Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 05:15 PM UTC

PDB ID	:	5GJR / pdb_00005gjr
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 Full wwPDB EM Validation Report for a publicly released PDB entry.

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

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

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

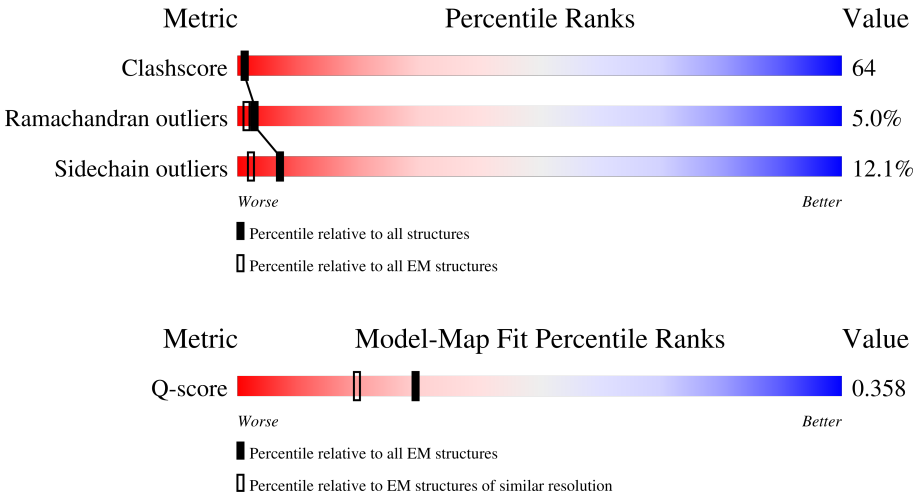
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	13950 (3.00 - 4.00)

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

Mol	Chain	Length	Quality of chain
1	I	440	13% 13% 51% 14% • 18%
1	w	440	13% 13% 50% 15% • 18%
2	H	433	10% 17% 48% 20% • 12%
2	v	433	10% 16% 49% 19% • 12%

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Mol	Chain	Length	Quality of chain
3	L	389	11% 17% 58% 17%
3	z	389	11% 17% 59% 17%
4	0	439	10% 18% 46% 19% 14%
4	M	439	10% 18% 47% 19% 14%
5	J	406	15% 51% 20% 12%
5	x	406	15% 51% 20% 12%
6	K	418	6% 12% 55% 22% 9%
6	y	418	6% 11% 55% 22% 9%
7	1	953	40% 26% 55% 14%
7	N	953	40% 26% 56% 14%
8	2	376	54% 51% 41% 7%
8	O	376	54% 51% 41% 7%
9	3	456	22% 41% 42% 7% 9%
9	P	456	22% 41% 42% 7% 9%
10	4	422	33% 28% 56% 13%
10	Q	422	33% 28% 56% 13%
11	5	389	11% 34% 52% 9%
11	R	389	11% 33% 52% 9%
12	6	525	31% 47% 29% 20%
12	S	525	30% 46% 30% 20%
13	7	350	48% 29% 38% 5% 26%
13	T	350	48% 28% 39% 6% 26%
14	8	324	21% 30% 48% 8% 13%
14	U	324	21% 30% 48% 8% 13%
15	9	310	20% 26% 45% 10% 17%

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Mol	Chain	Length	Quality of chain
15	V	310	20% 28% 43% 10% 17%
16	AA	377	50% 15% 31% 5% 49%
16	W	377	50% 15% 31% 5% 49%
17	AB	70	51% 34% 36% 14% 16%
17	Y	70	51% 31% 39% 14% 16%
18	AC	908	77% 50% 27% 19%
18	Z	908	77% 49% 28% 19%
19	B	246	72% 24%
19	h	246	74% 22%
20	C	234	69% 26%
20	i	234	70% 25%
21	D	261	75% 19%
21	j	261	79% 16%
22	E	248	75% 19%
22	k	248	77% 18%
23	F	241	76% 19%
23	l	241	74% 22%
24	G	263	70% 19% 10%
24	m	263	71% 17% 10%
25	X	255	75% 18% 5%
25	n	255	74% 20% 5%
26	a	239	72% 11% 15%
26	o	239	71% 13% 15%
27	b	277	58% 18% 21%
27	p	277	60% 17% 21%

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Mol	Chain	Length	Quality of chain
28	c	205	
28	q	205	
29	d	201	
29	r	201	
30	e	263	
30	s	263	
31	f	241	
31	t	241	
32	g	264	
32	u	264	

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	-
33	ADP	w	501	-	-	X	-
33	ADP	x	501	-	-	X	-
33	ADP	y	501	-	-	X	-
33	ADP	z	401	-	-	X	-

2 Entry composition (i)

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		

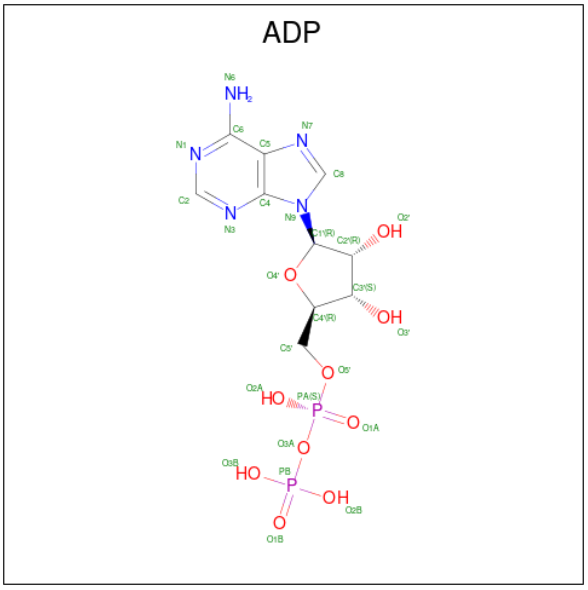
- Molecule 31 is a protein called Proteasome subunit beta type-1.

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	C	N	O	S	0	0
			1672	1055	286	319	12		
32	u	217	Total	C	N	O	S	0	0
			1678	1058	290	318	12		

- Molecule 33 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



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

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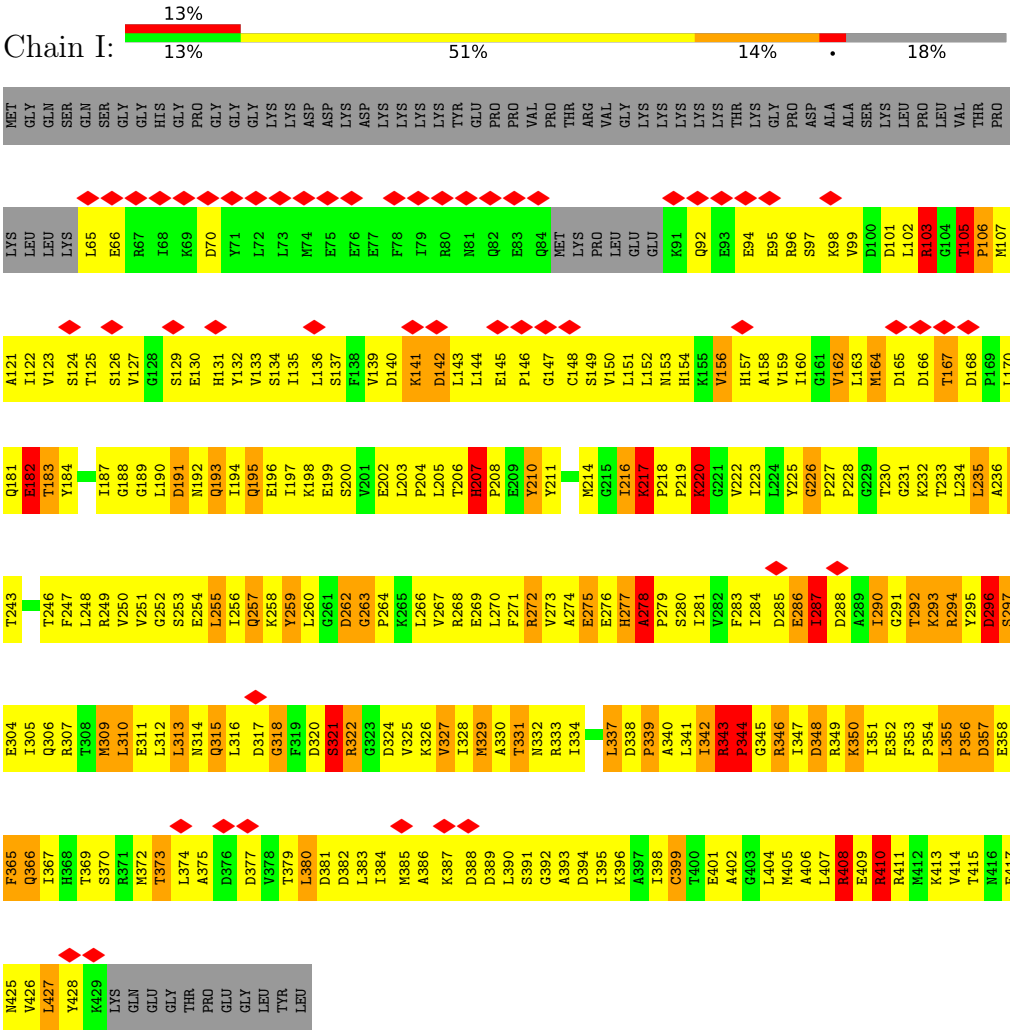
Mol	Chain	Residues	Atoms					AltConf
33	y	1	Total	C	N	O	P	0
			27	10	5	10	2	
33	z	1	Total	C	N	O	P	0
			27	10	5	10	2	
33	0	1	Total	C	N	O	P	0
			27	10	5	10	2	

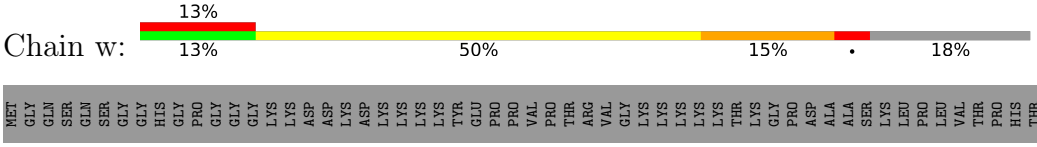
3 Residue-property plots (i)

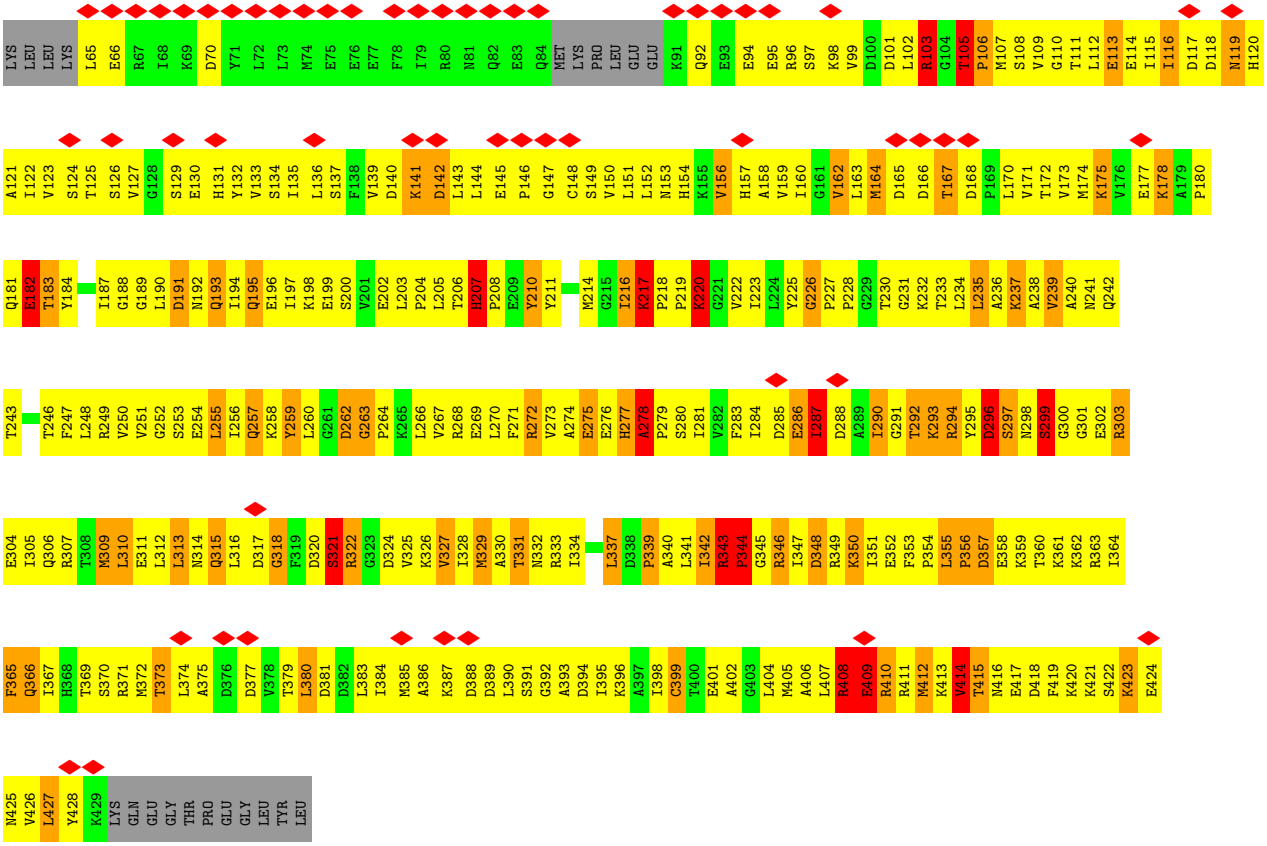
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: 26S protease regulatory subunit 4



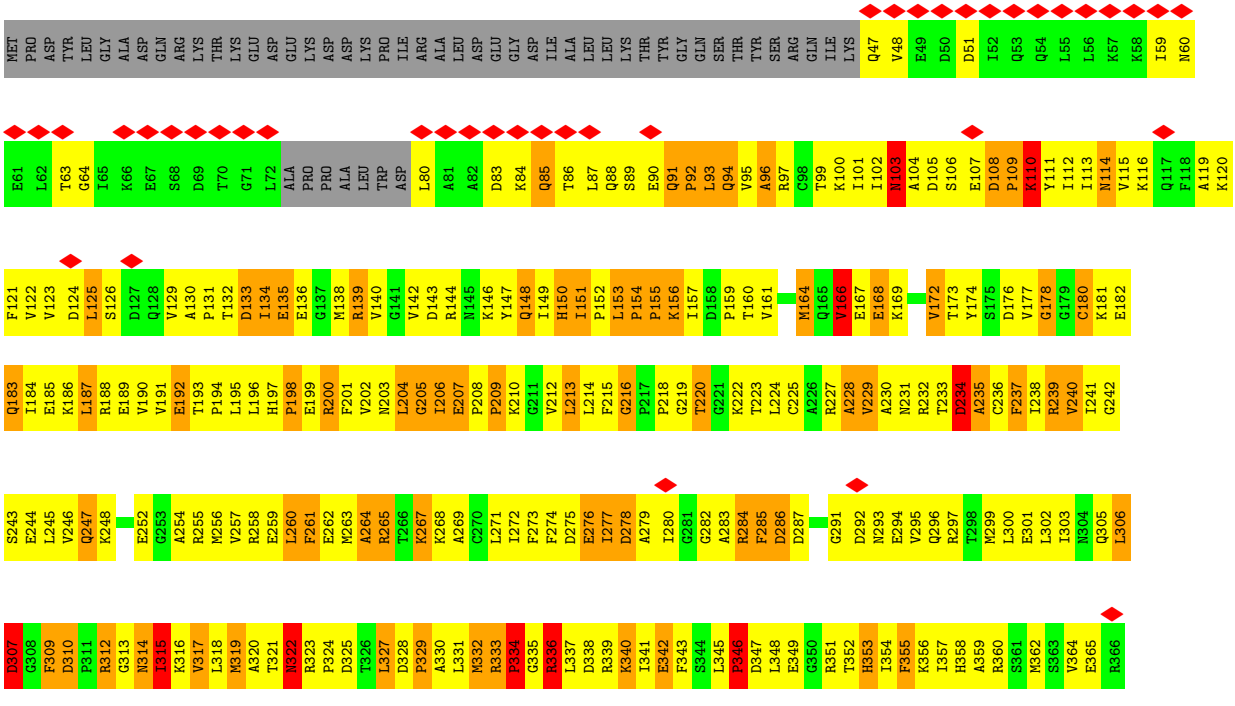
• Molecule 1: 26S protease regulatory subunit 4

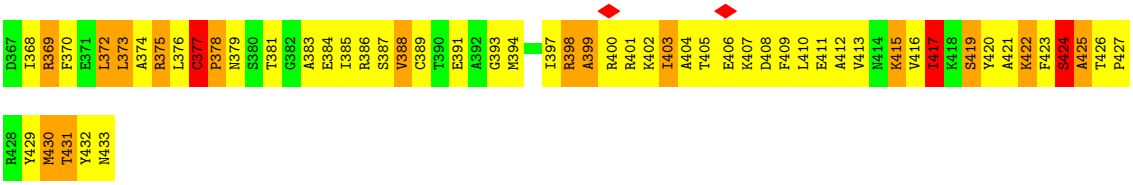




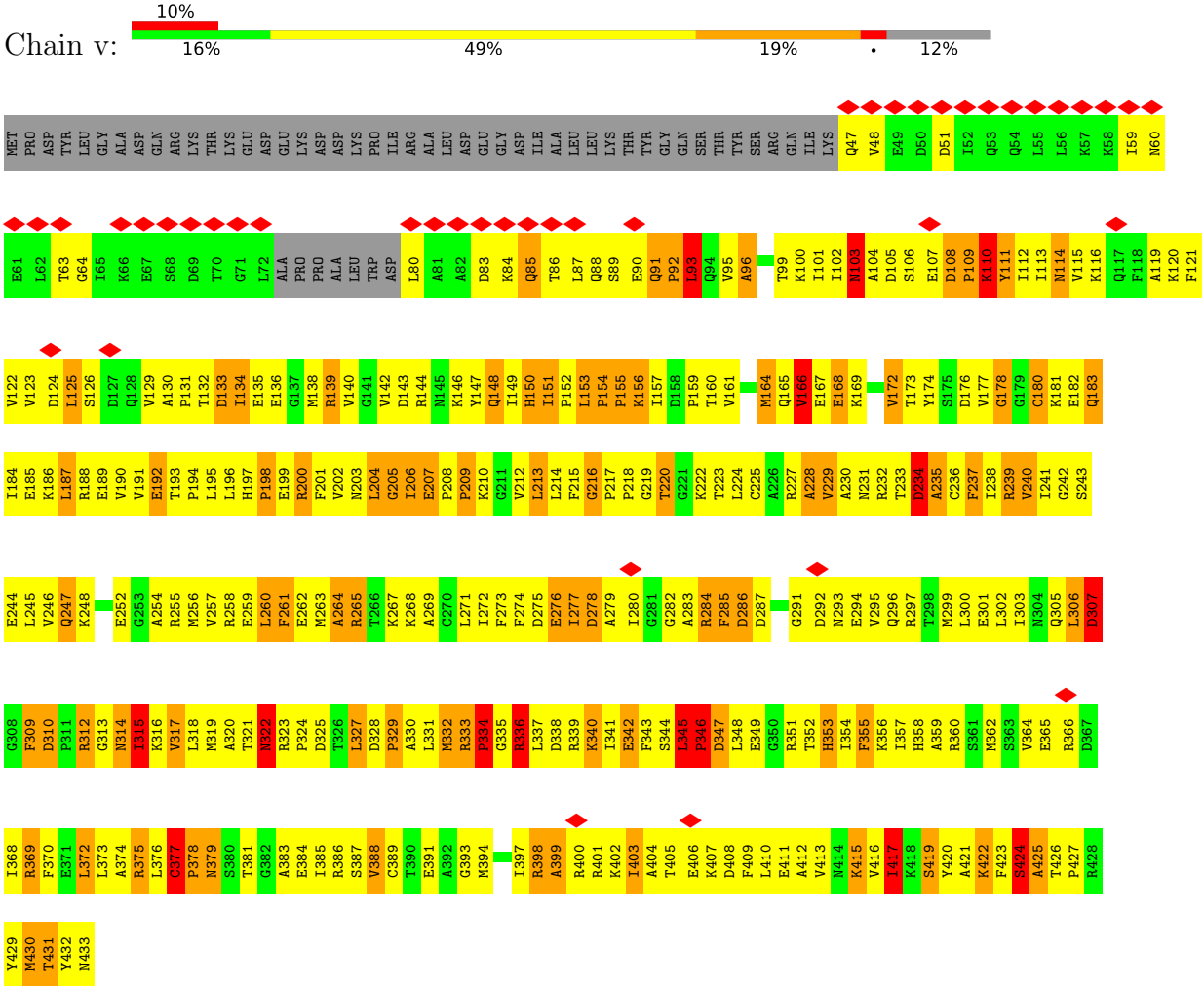
• Molecule 2: 26S protease regulatory subunit 7

Chain H:

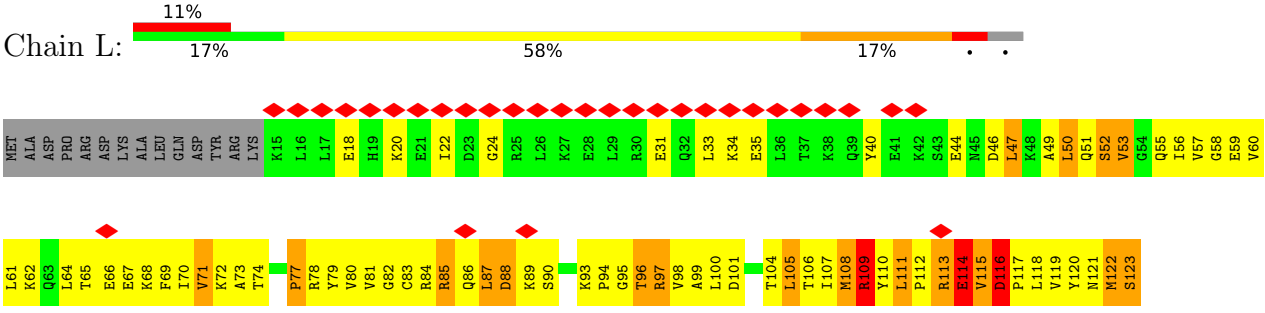


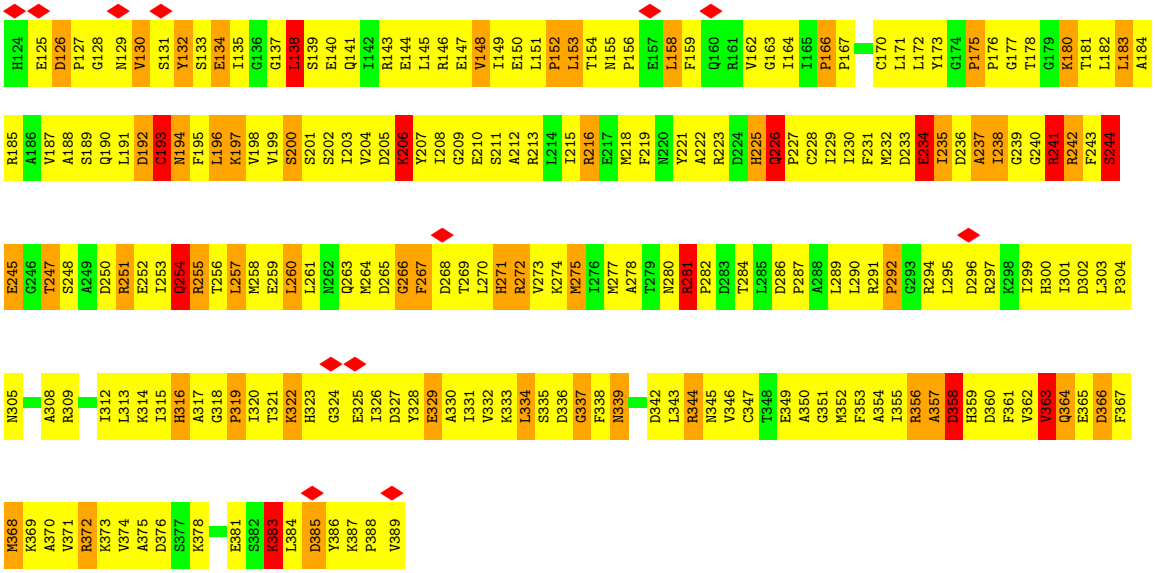


• Molecule 2: 26S protease regulatory subunit 7



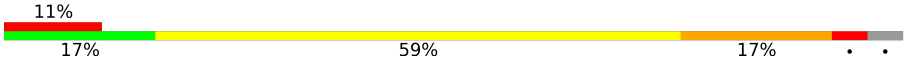
• Molecule 3: 26S protease regulatory subunit 10B

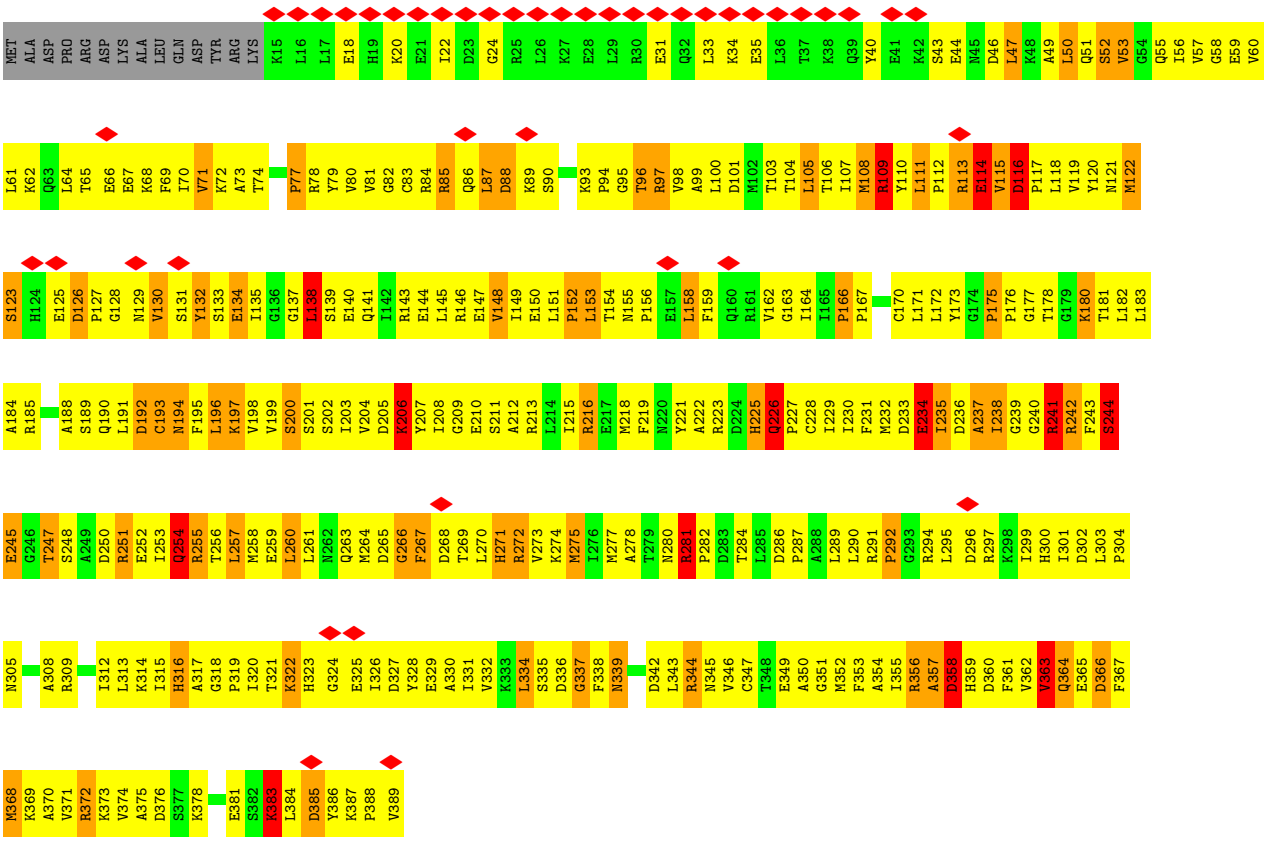




• Molecule 3: 26S protease regulatory subunit 10B

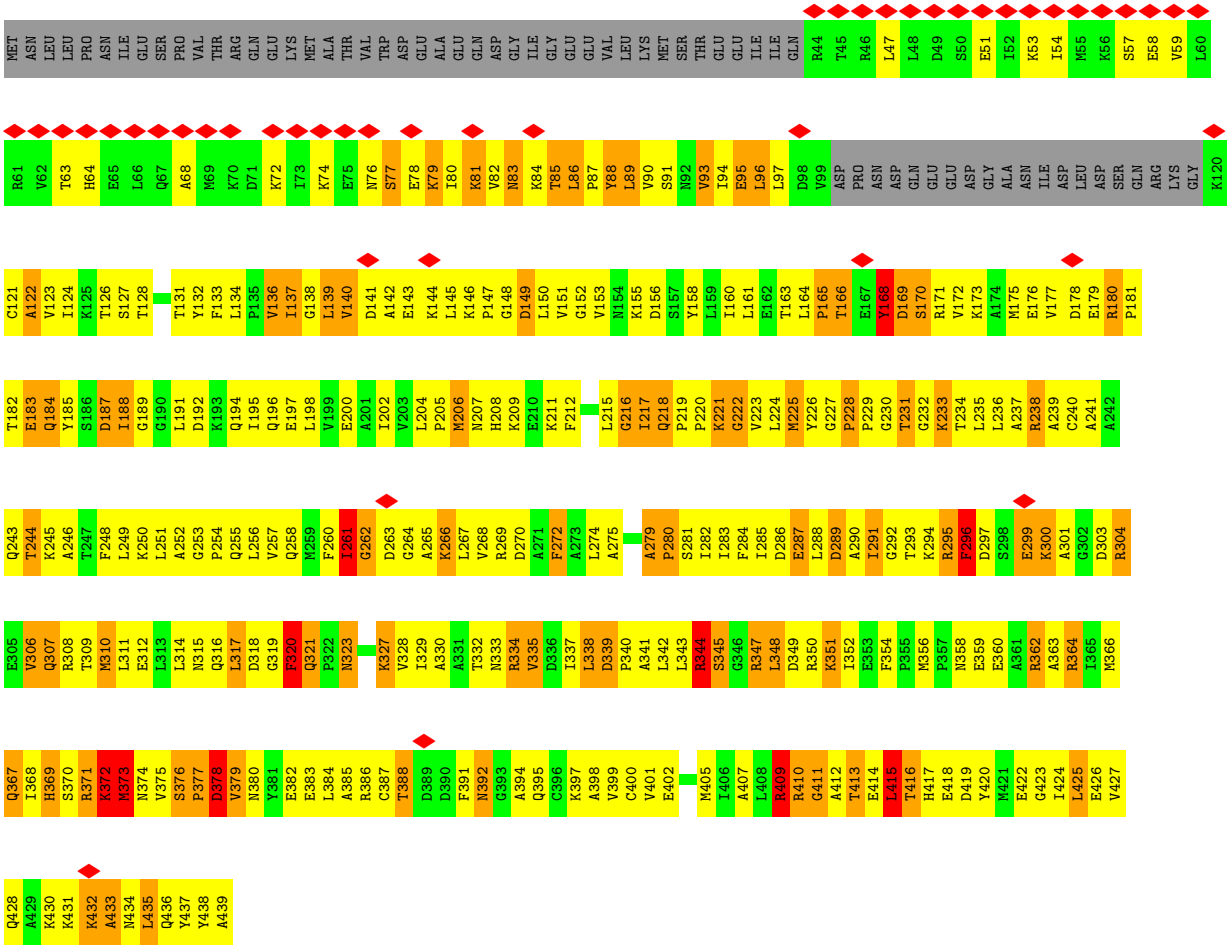
Chain z:





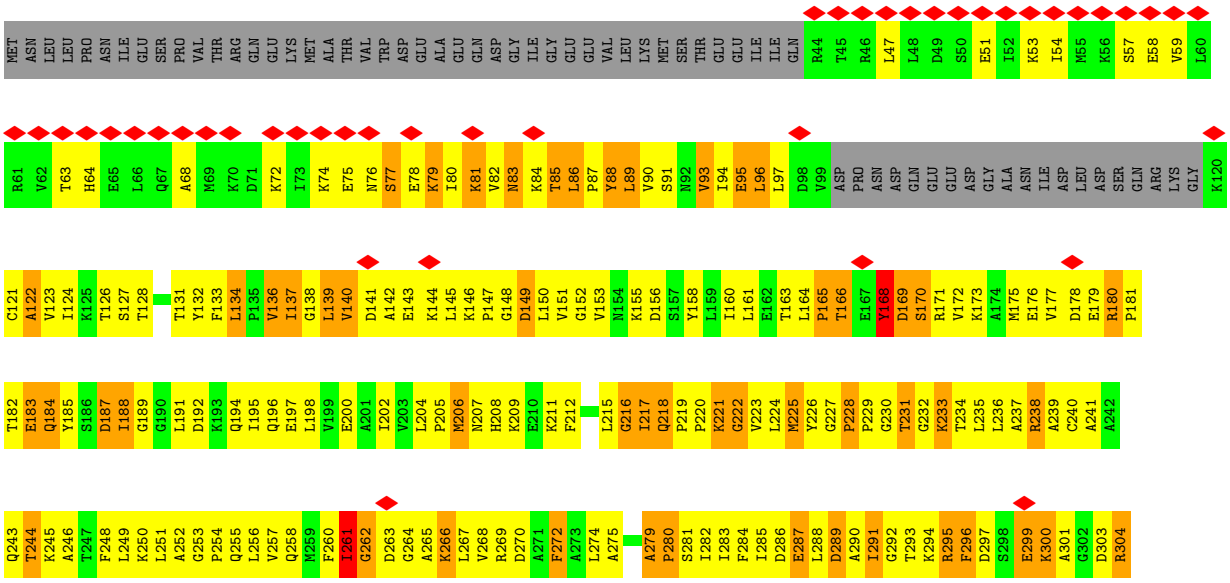
• Molecule 4: 26S protease regulatory subunit 6A

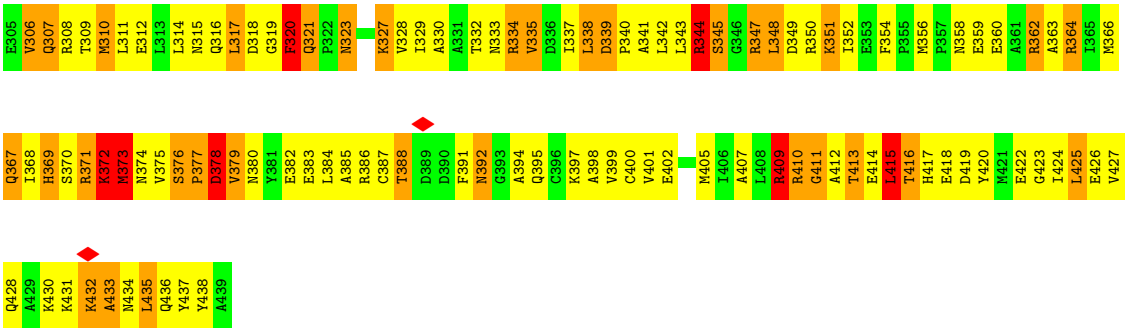
Chain M:



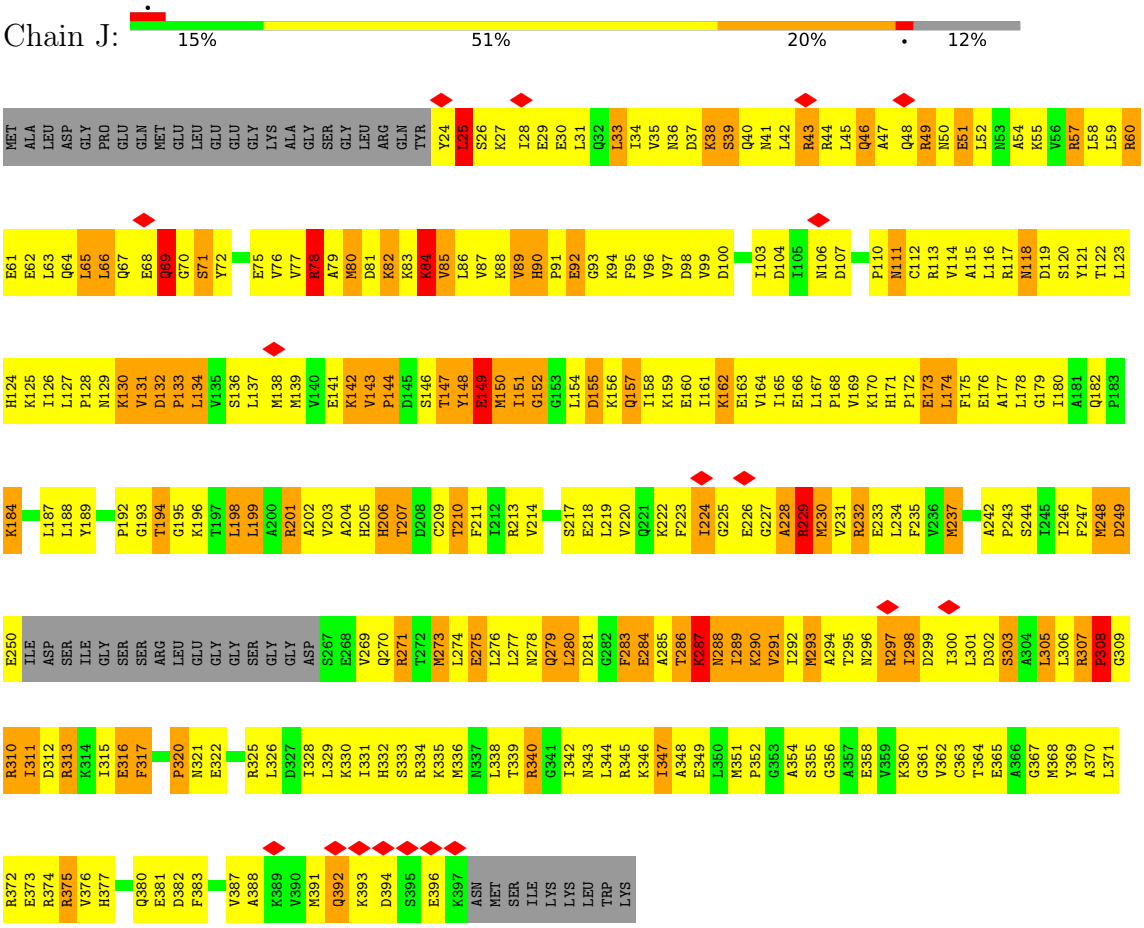
• Molecule 4: 26S protease regulatory subunit 6A

Chain 0:

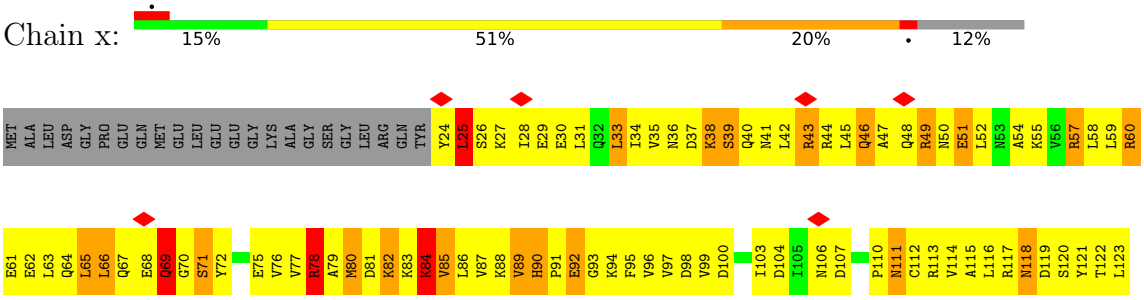


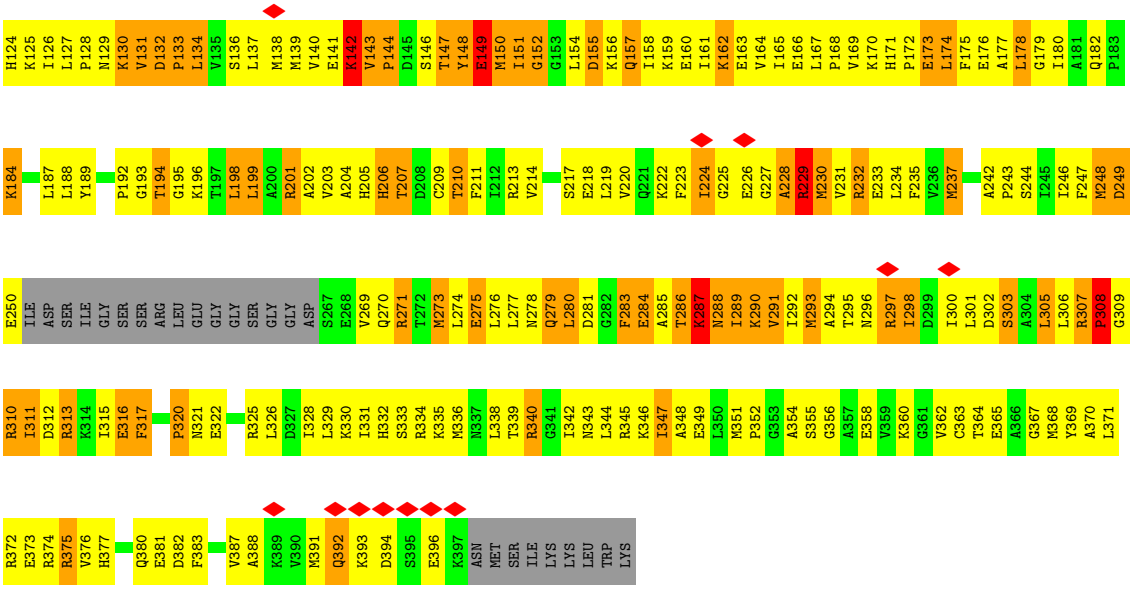


• Molecule 5: 26S protease regulatory subunit 8



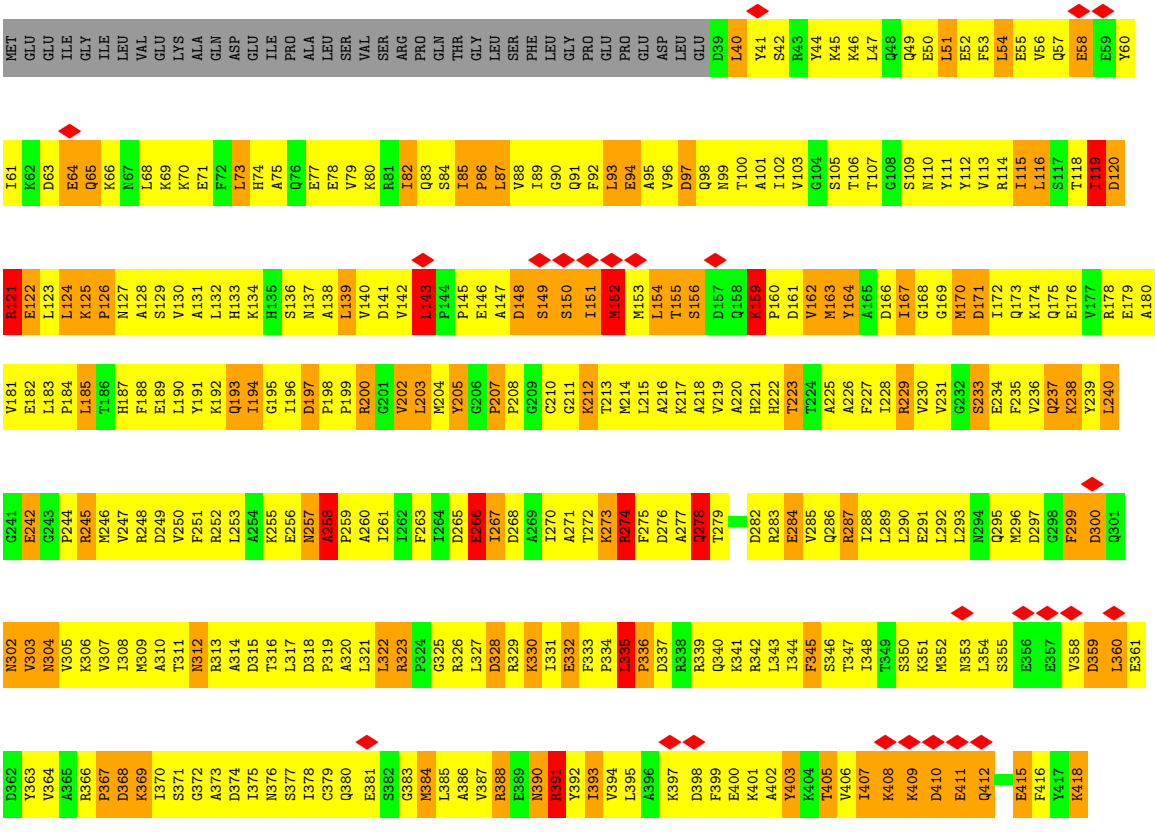
• Molecule 5: 26S protease regulatory subunit 8





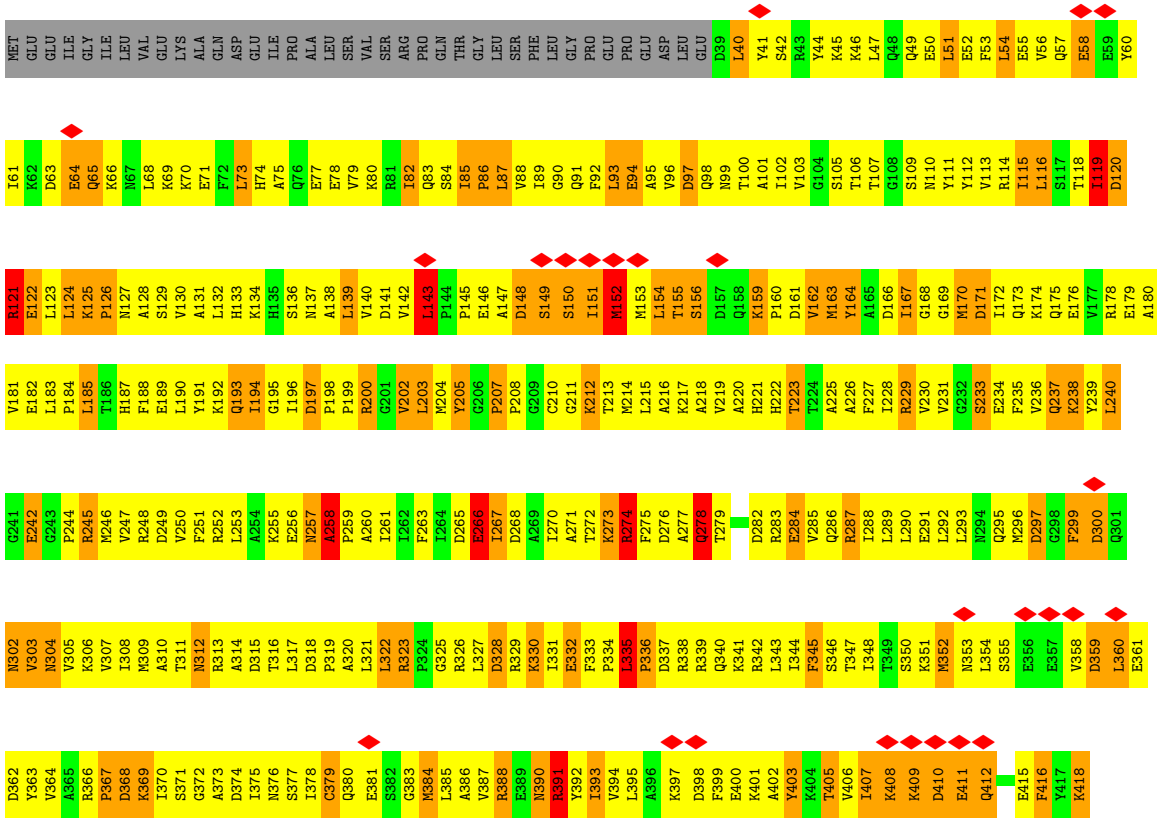
• Molecule 6: 26S protease regulatory subunit 6B

Chain K:

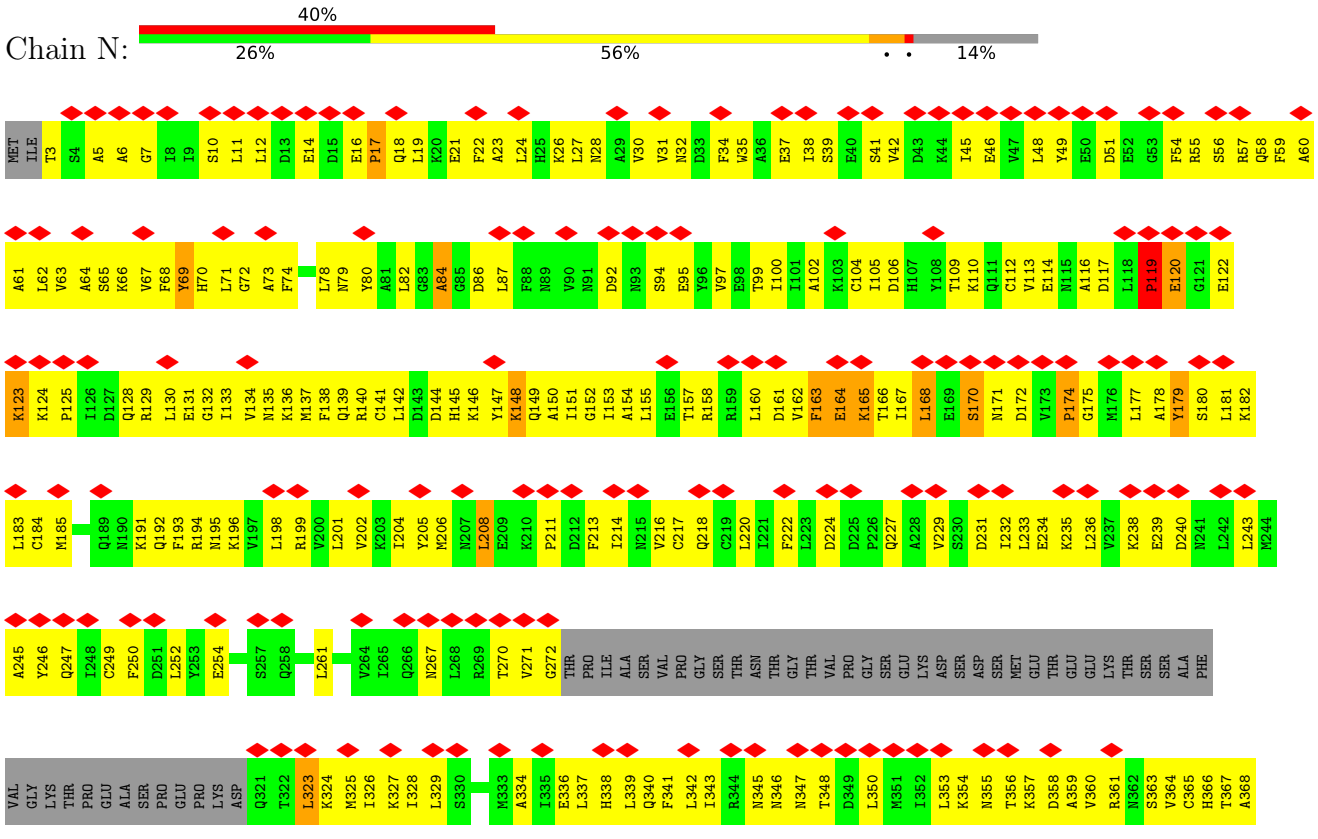


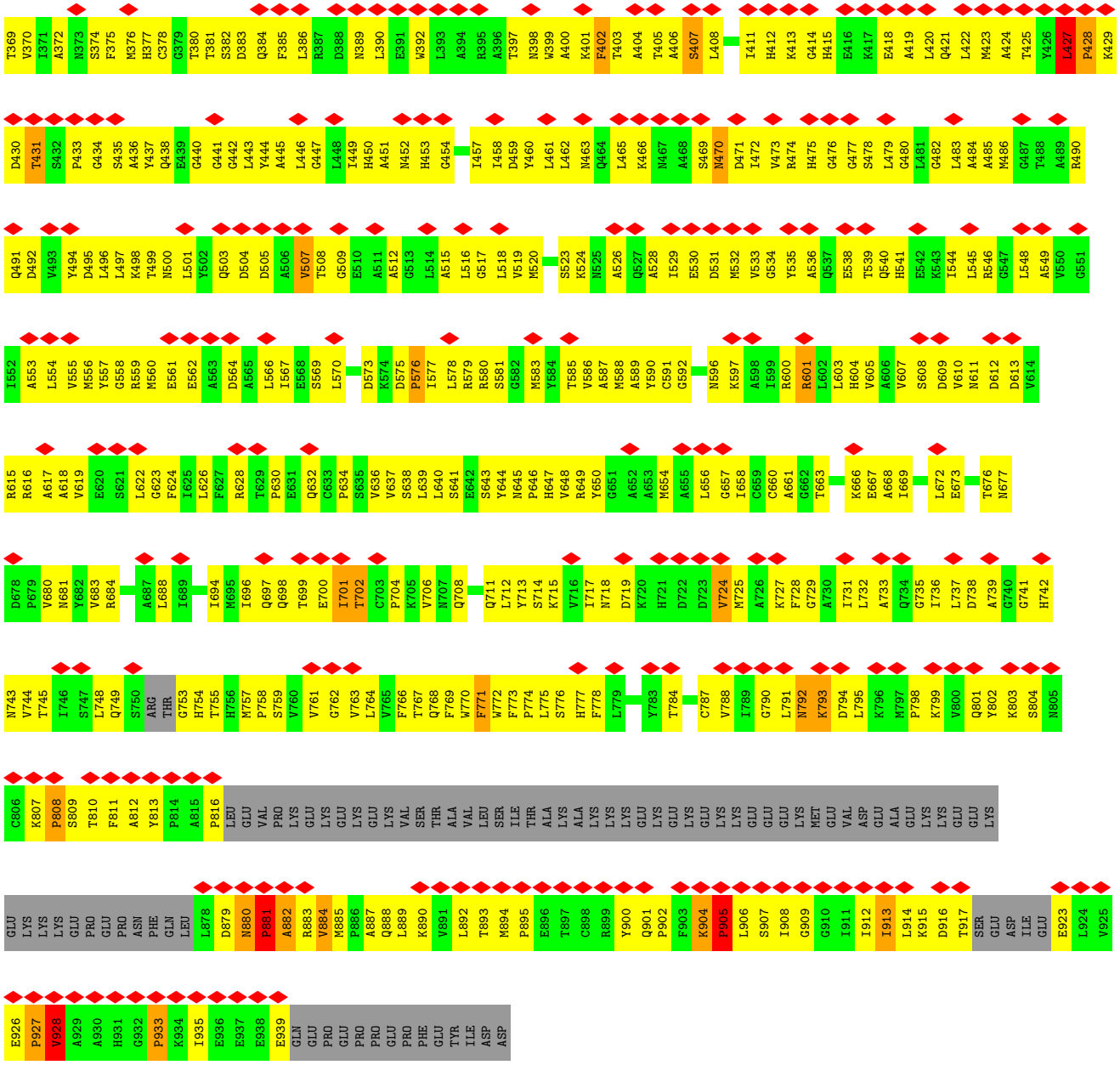
• Molecule 6: 26S protease regulatory subunit 6B

Chain y:



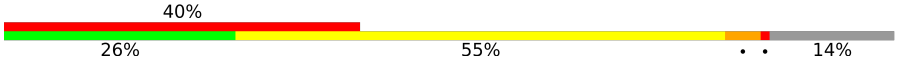
• Molecule 7: 26S proteasome non-ATPase regulatory subunit 1

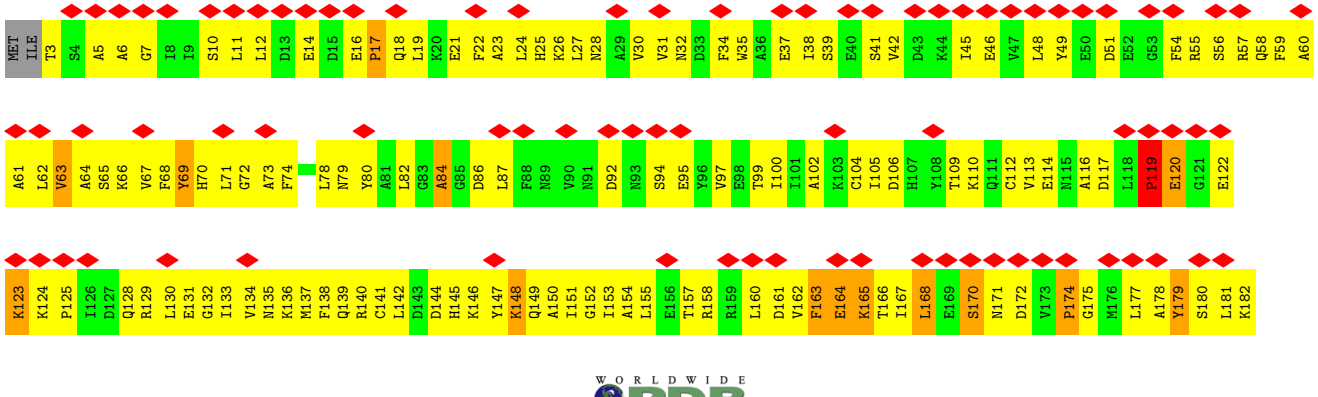


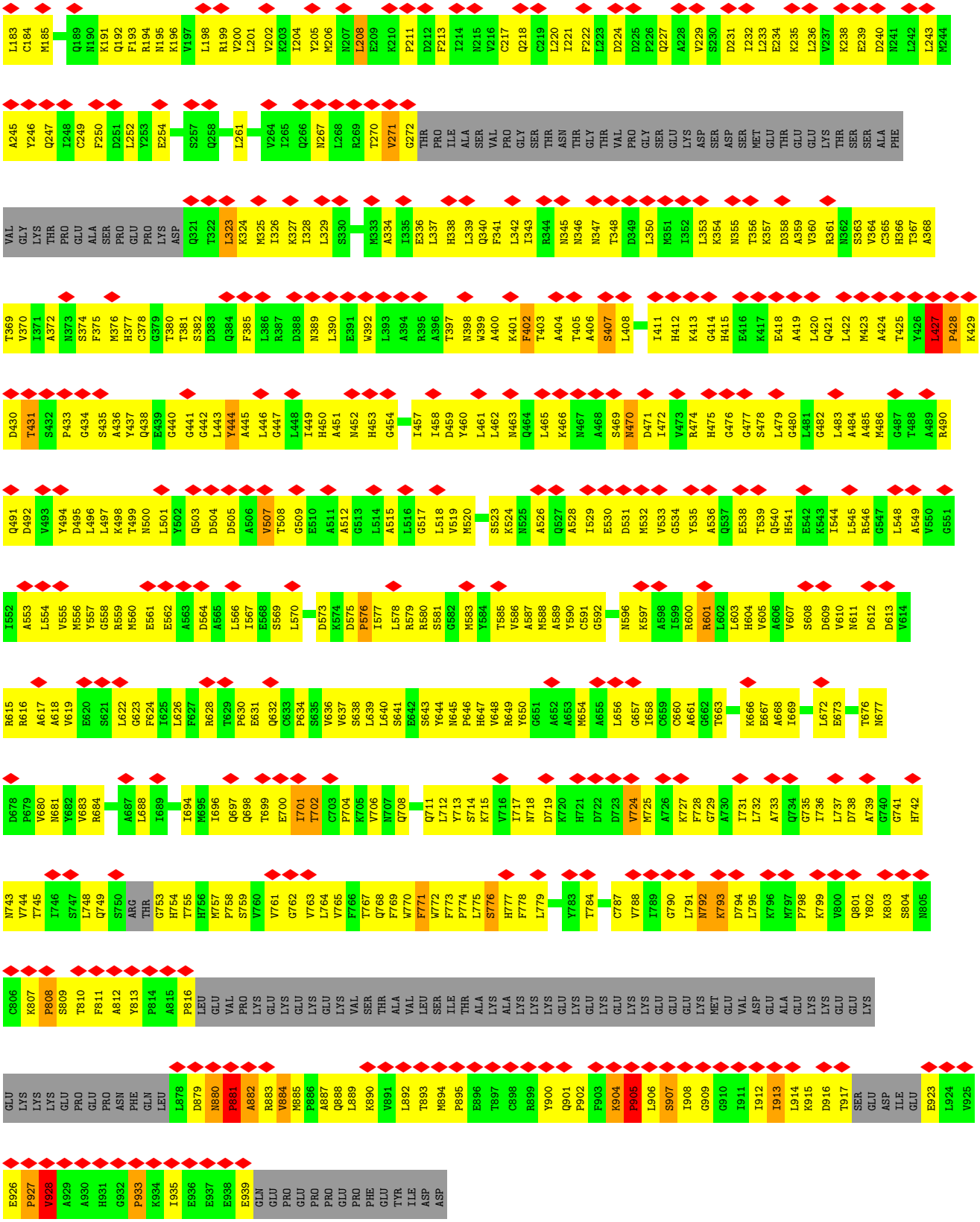


• Molecule 7: 26S proteasome non-ATPase regulatory subunit 1

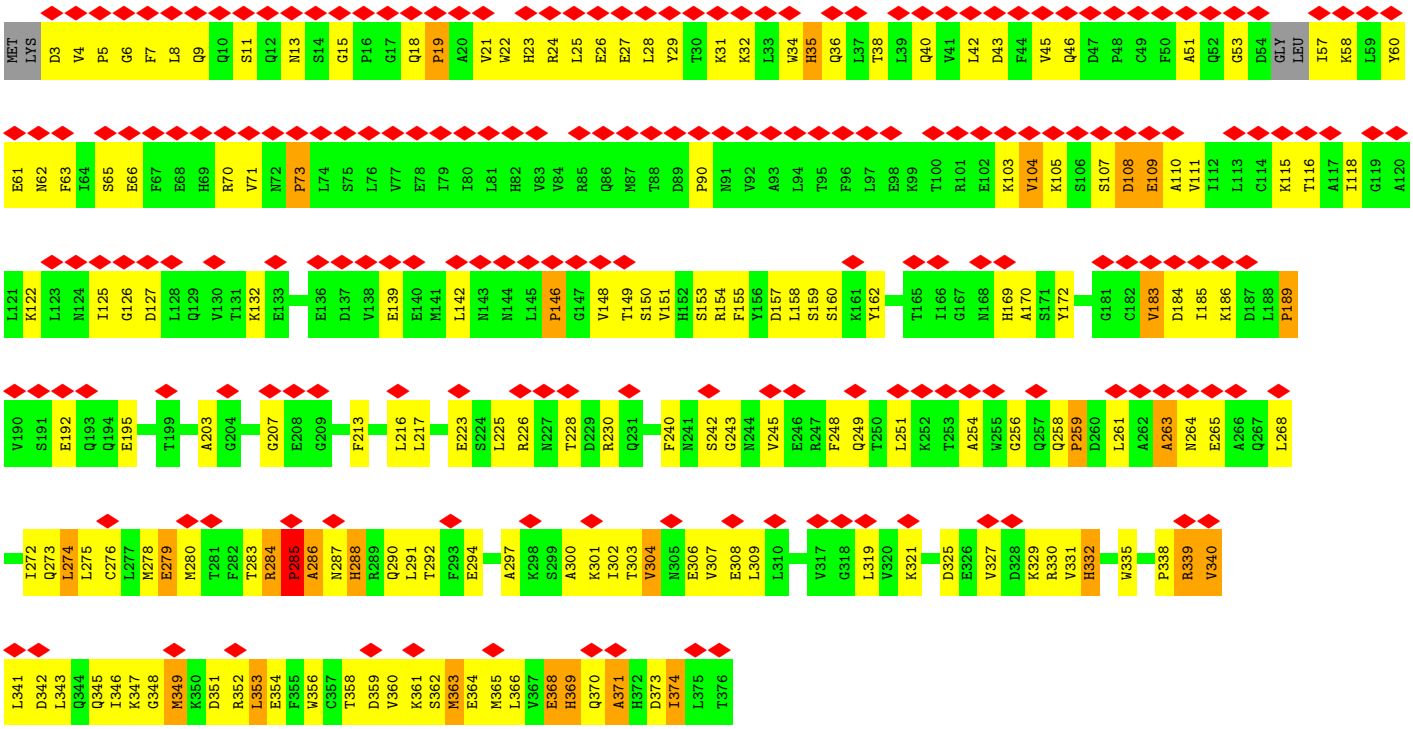
Chain 1:



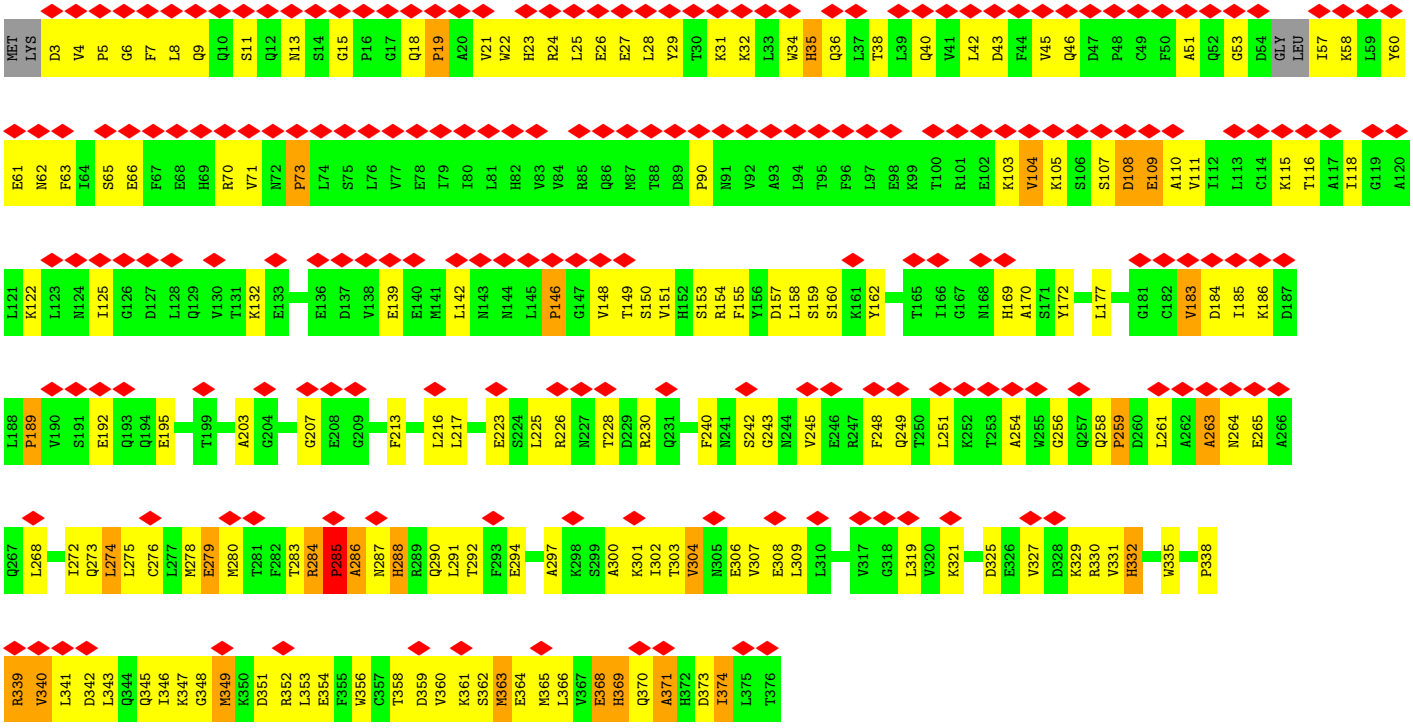




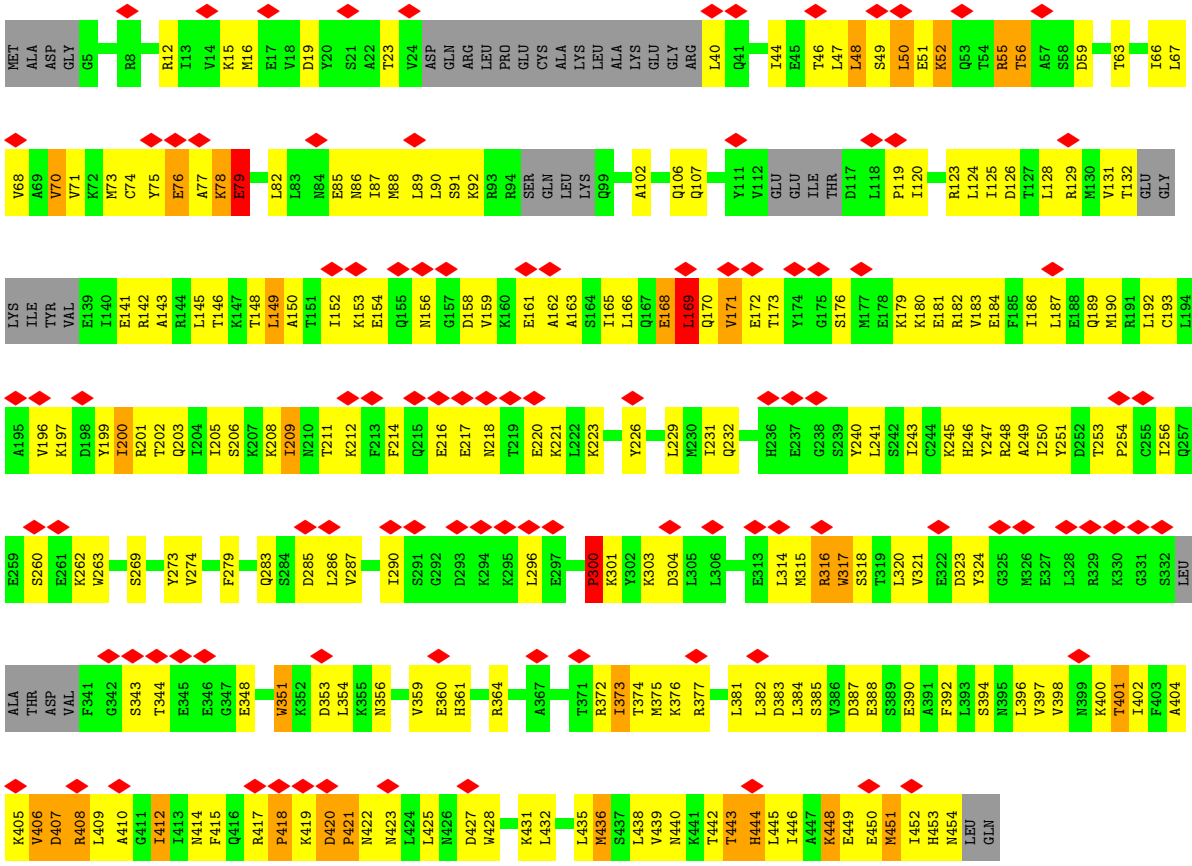
• Molecule 8: 26S proteasome non-ATPase regulatory subunit 13



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

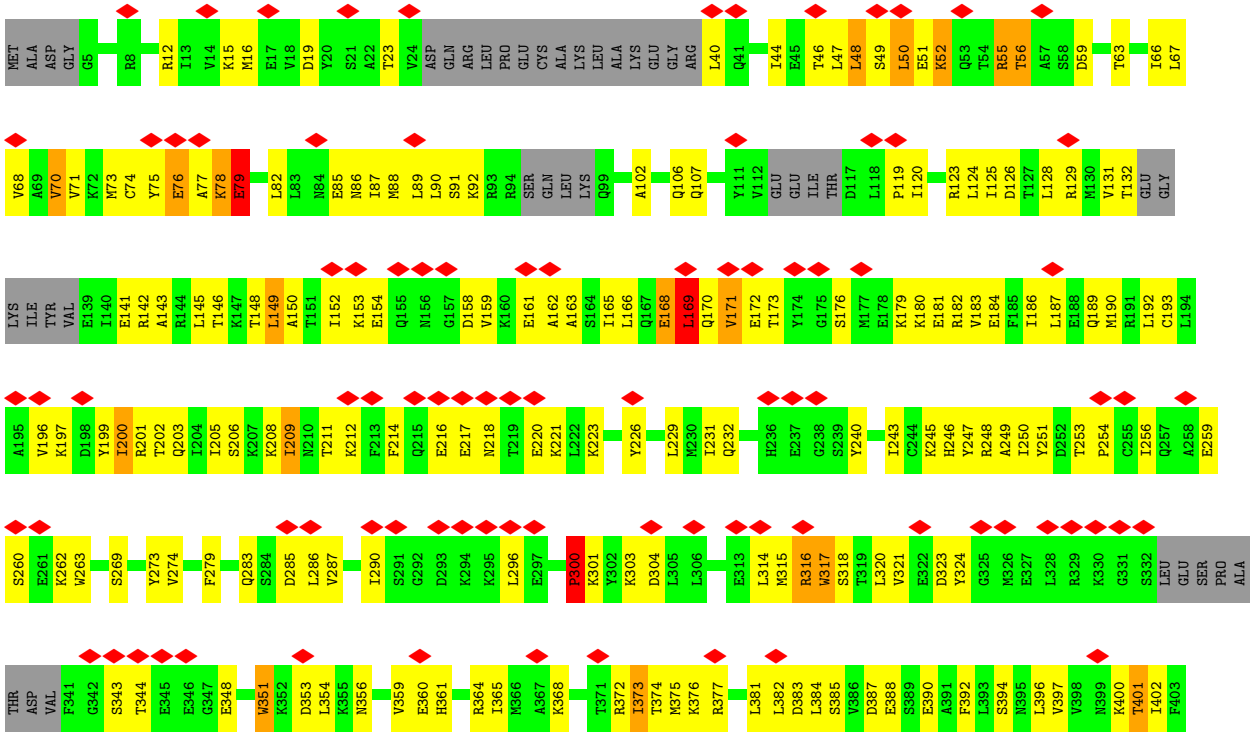


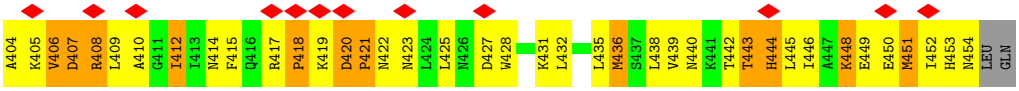
• Molecule 9: 26S proteasome non-ATPase regulatory subunit 12



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

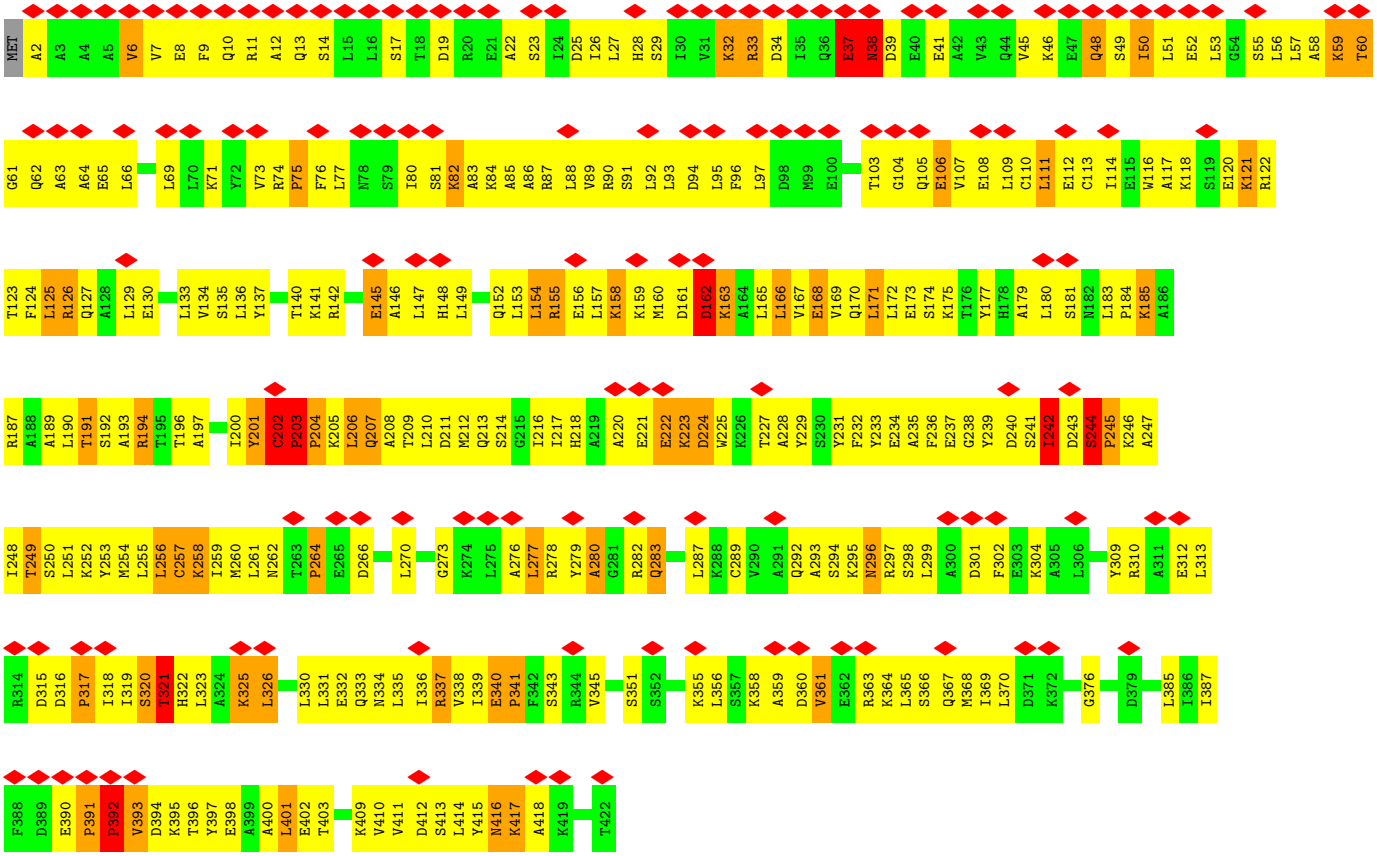
Chain 3:





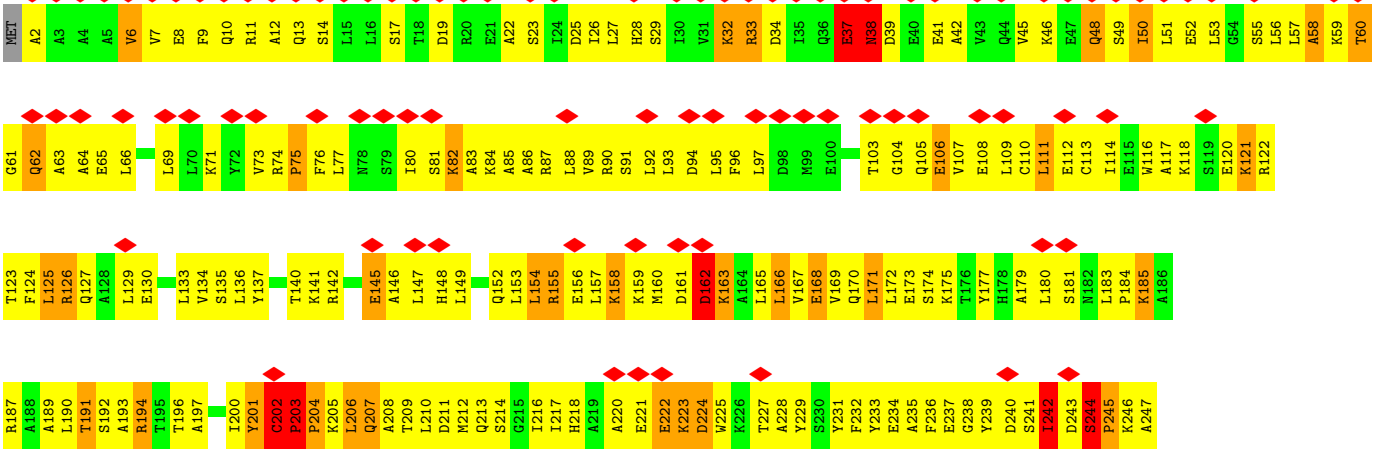
• Molecule 10: 26S proteasome non-ATPase regulatory subunit 11

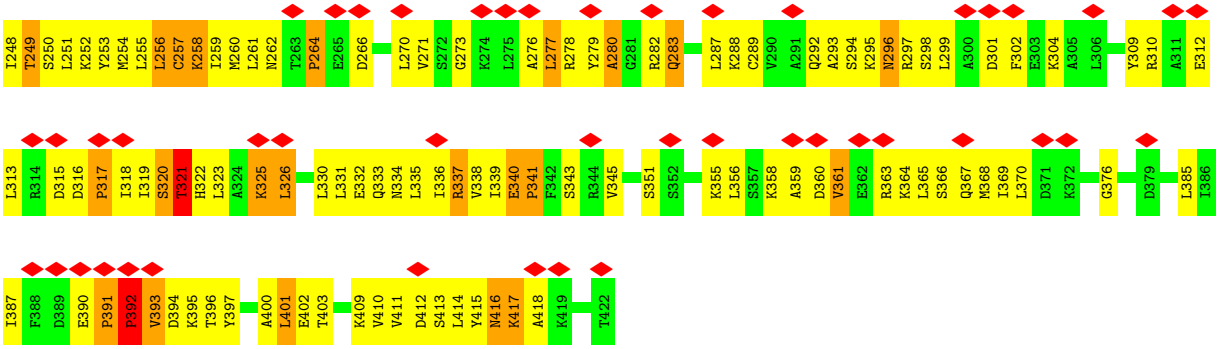
Chain Q:



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

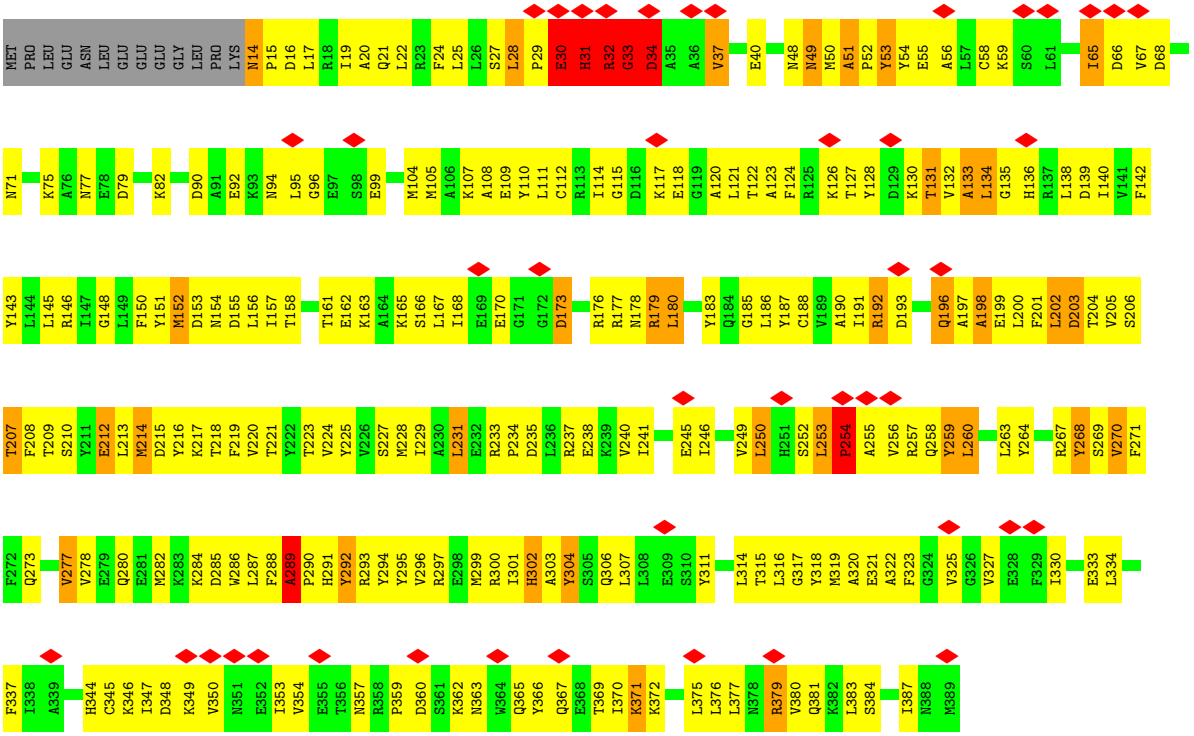
Chain 4:





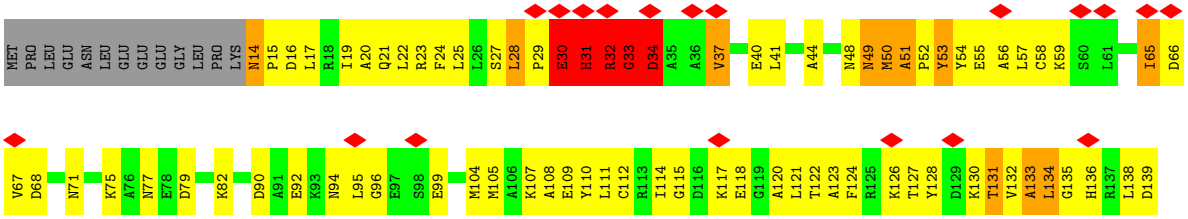
• Molecule 11: 26S proteasome non-ATPase regulatory subunit 6

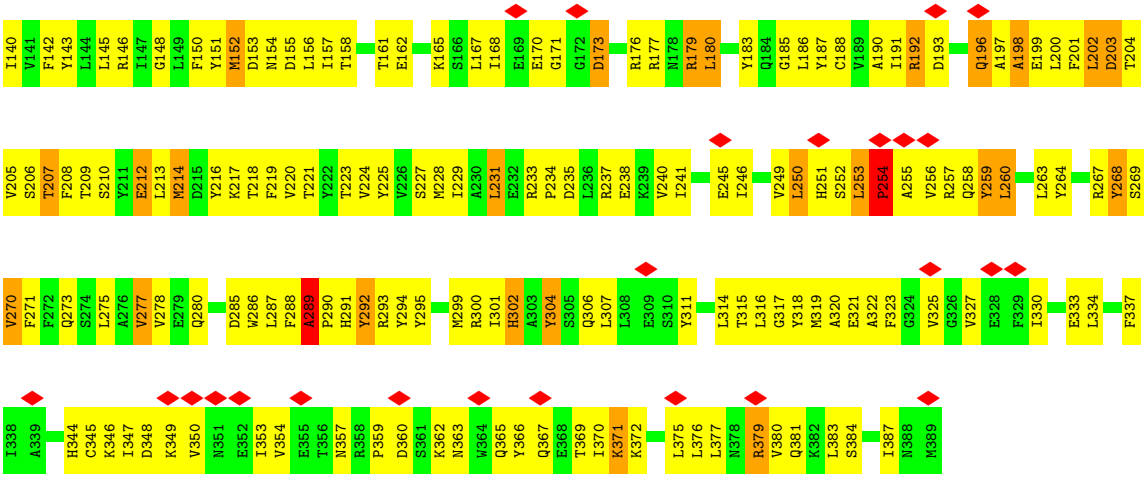
Chain R:



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

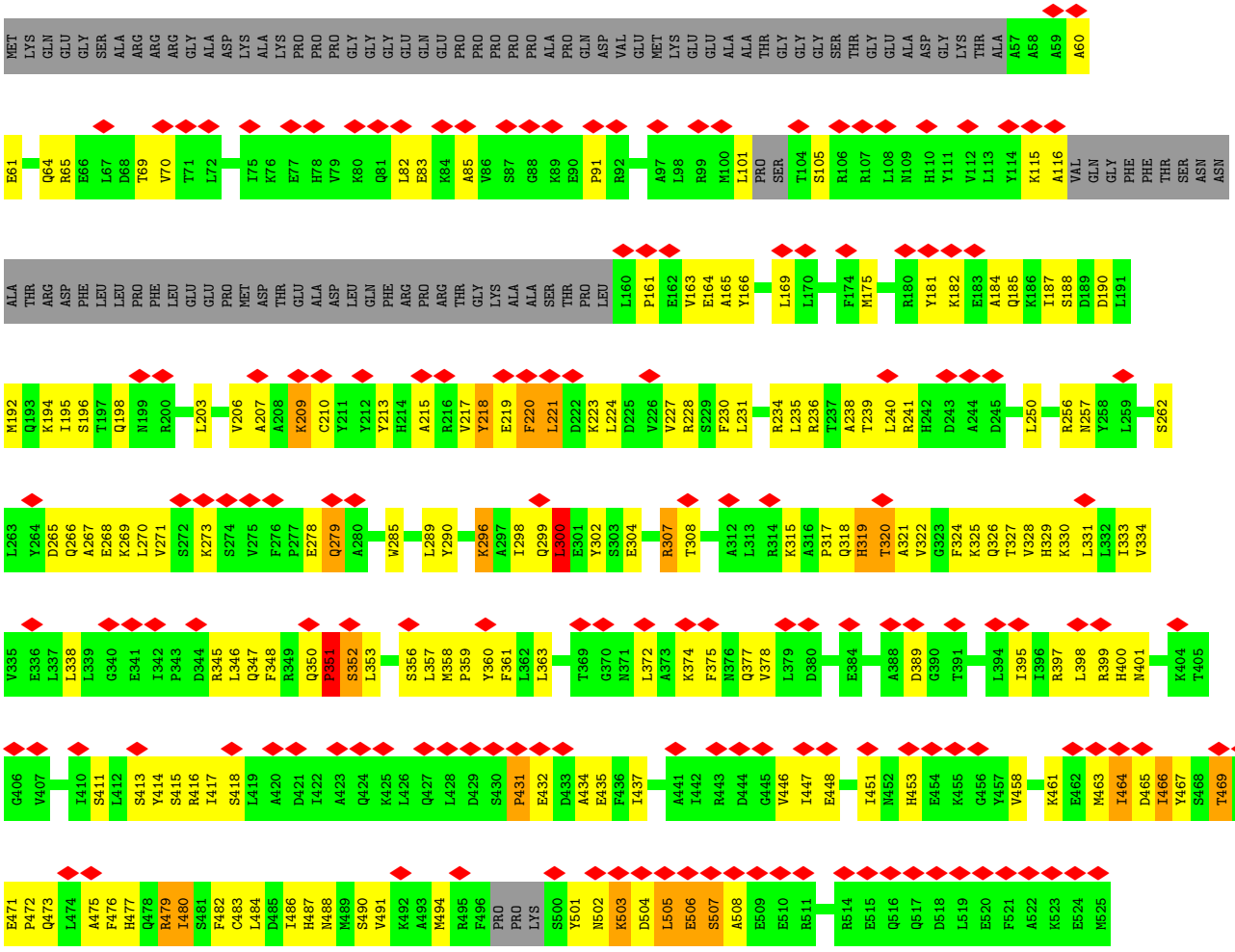
Chain 5:





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

Chain S:



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

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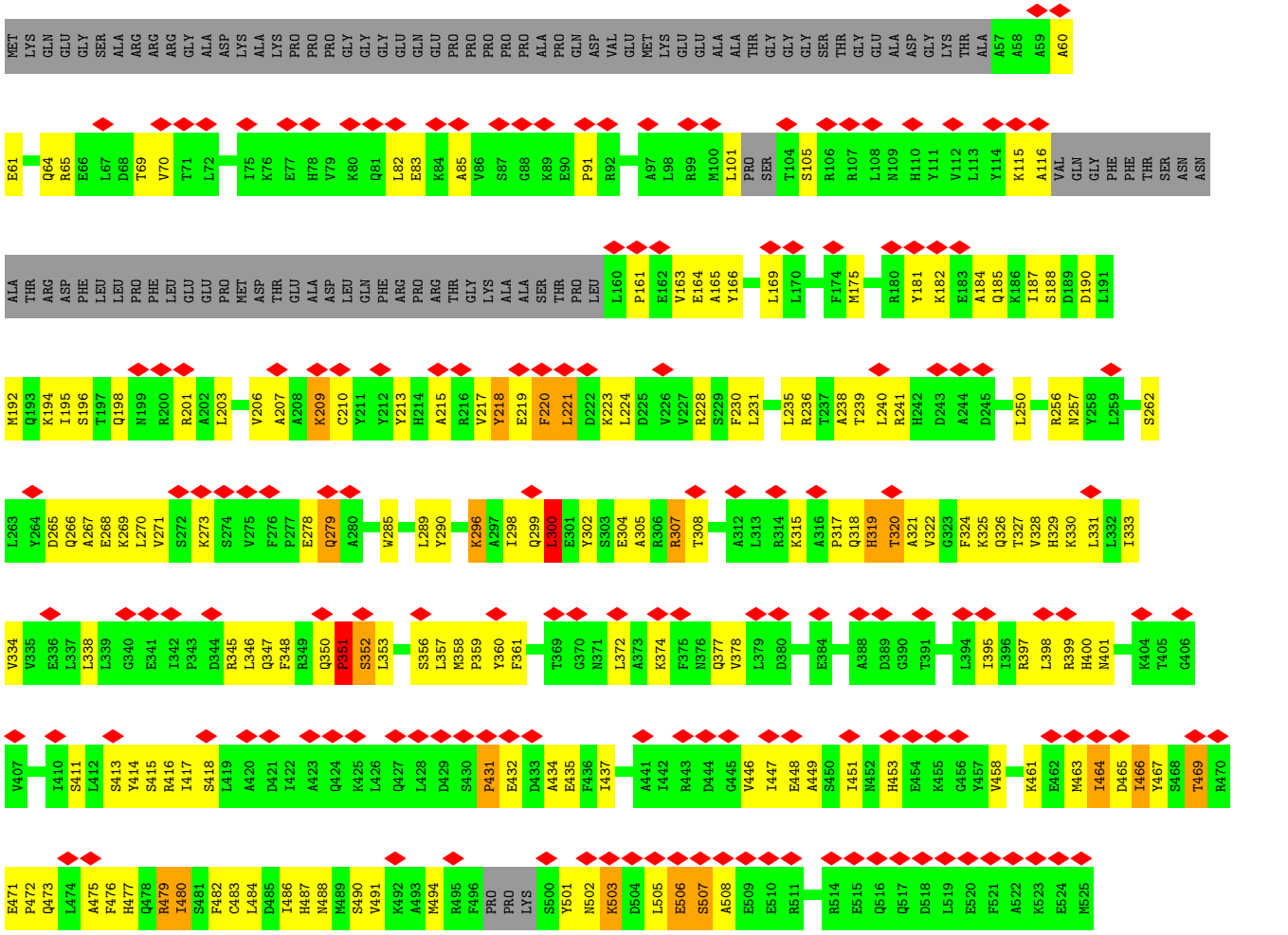
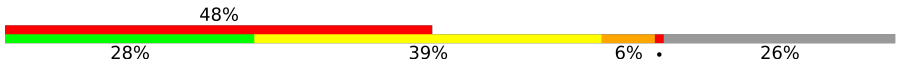
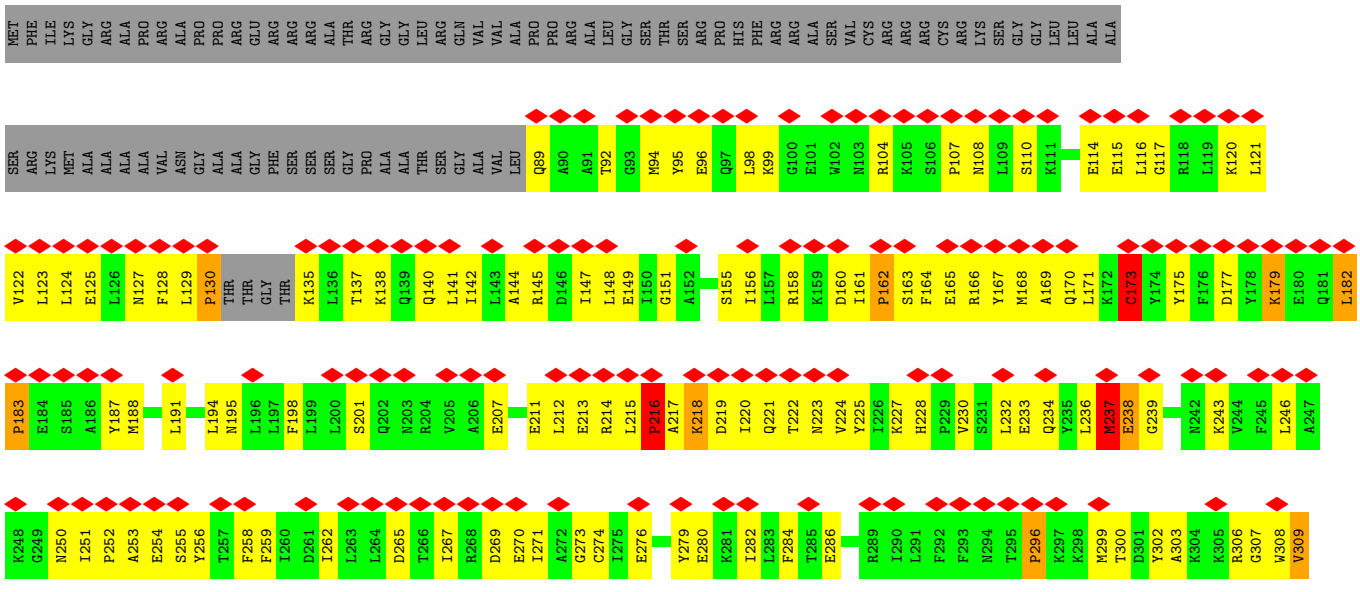
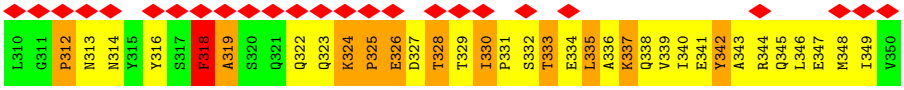


• Molecule 13: 26S proteasome non-ATPase regulatory subunit 8

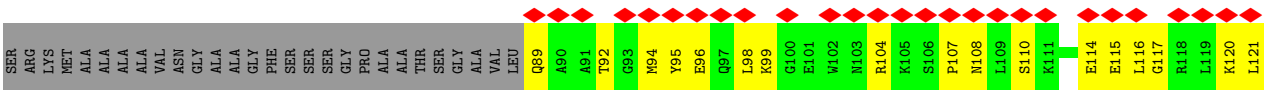
Chain T:

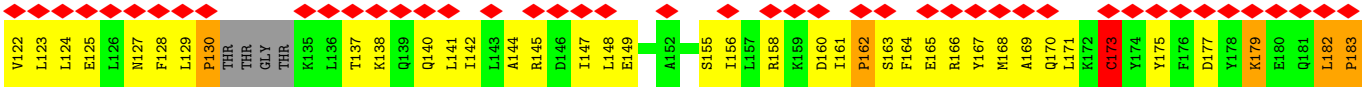


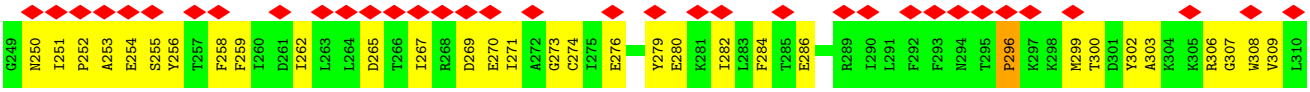


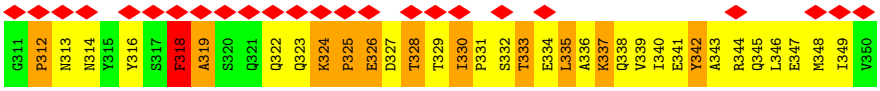


• Molecule 13: 26S proteasome non-ATPase regulatory subunit 8

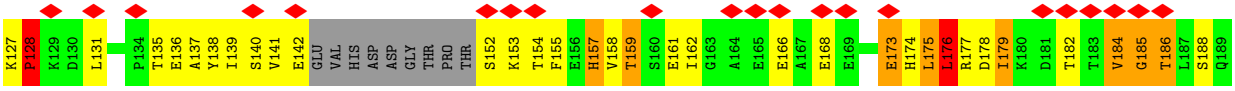


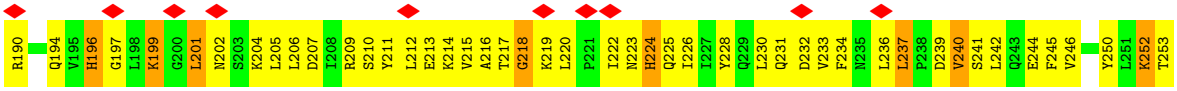


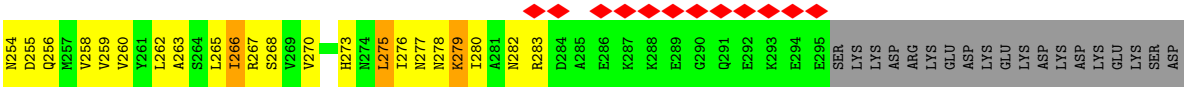




• Molecule 14: 26S proteasome non-ATPase regulatory subunit 7

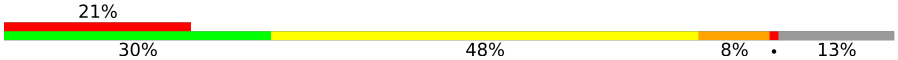


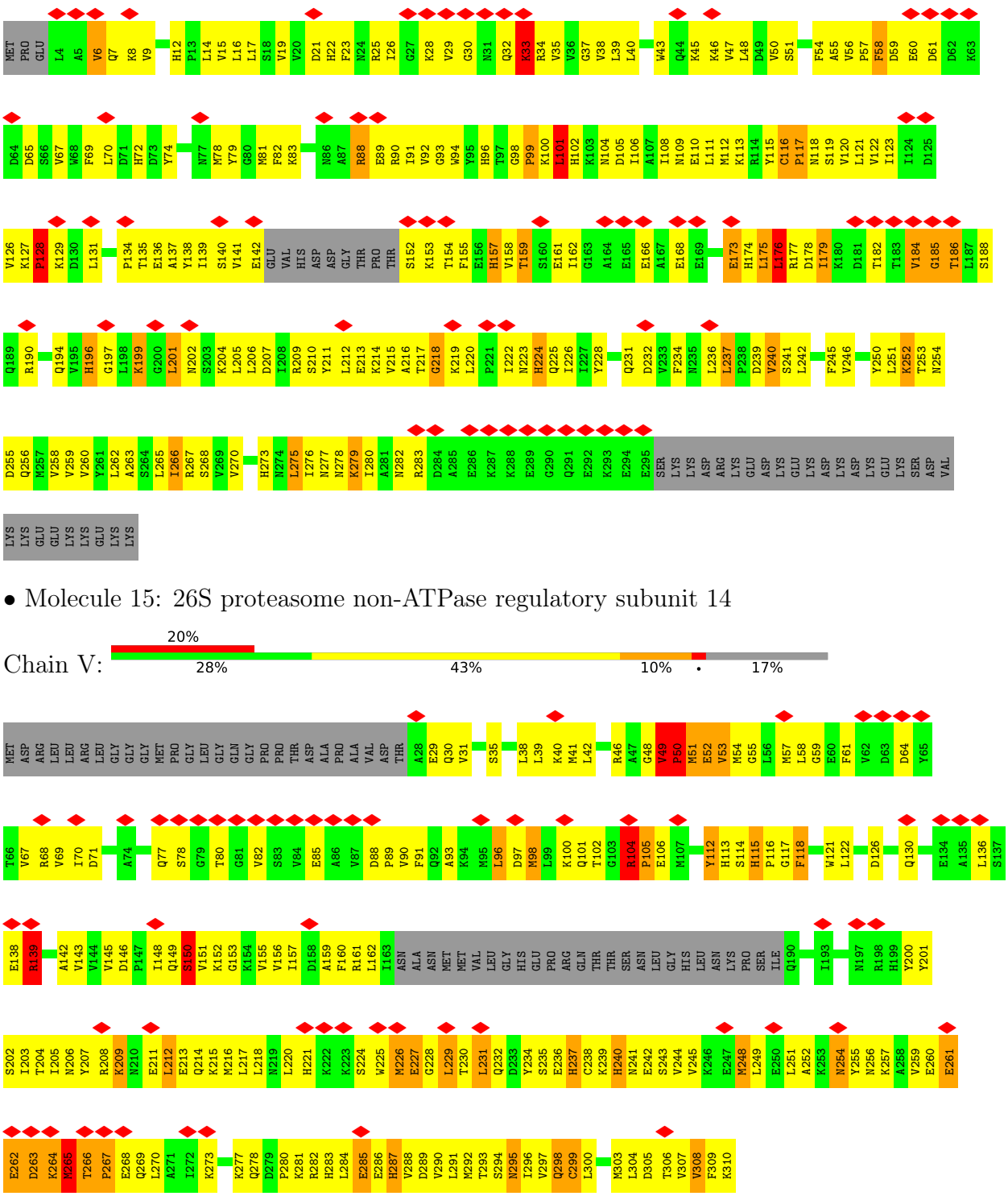




• Molecule 14: 26S proteasome non-ATPase regulatory subunit 7

Chain 8:



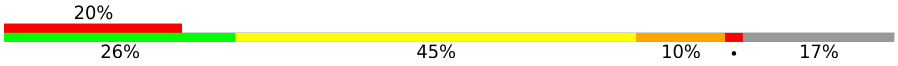


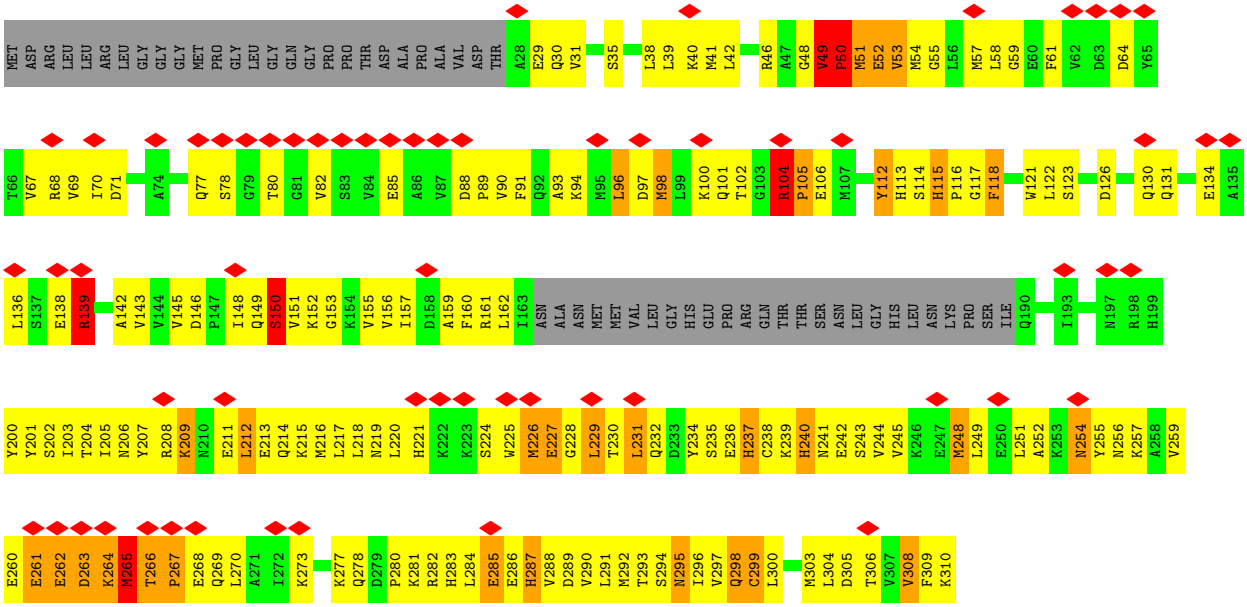
• Molecule 15: 26S proteasome non-ATPase regulatory subunit 14

Chain V:

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

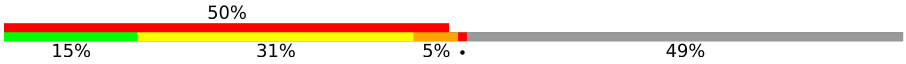
Chain 9:

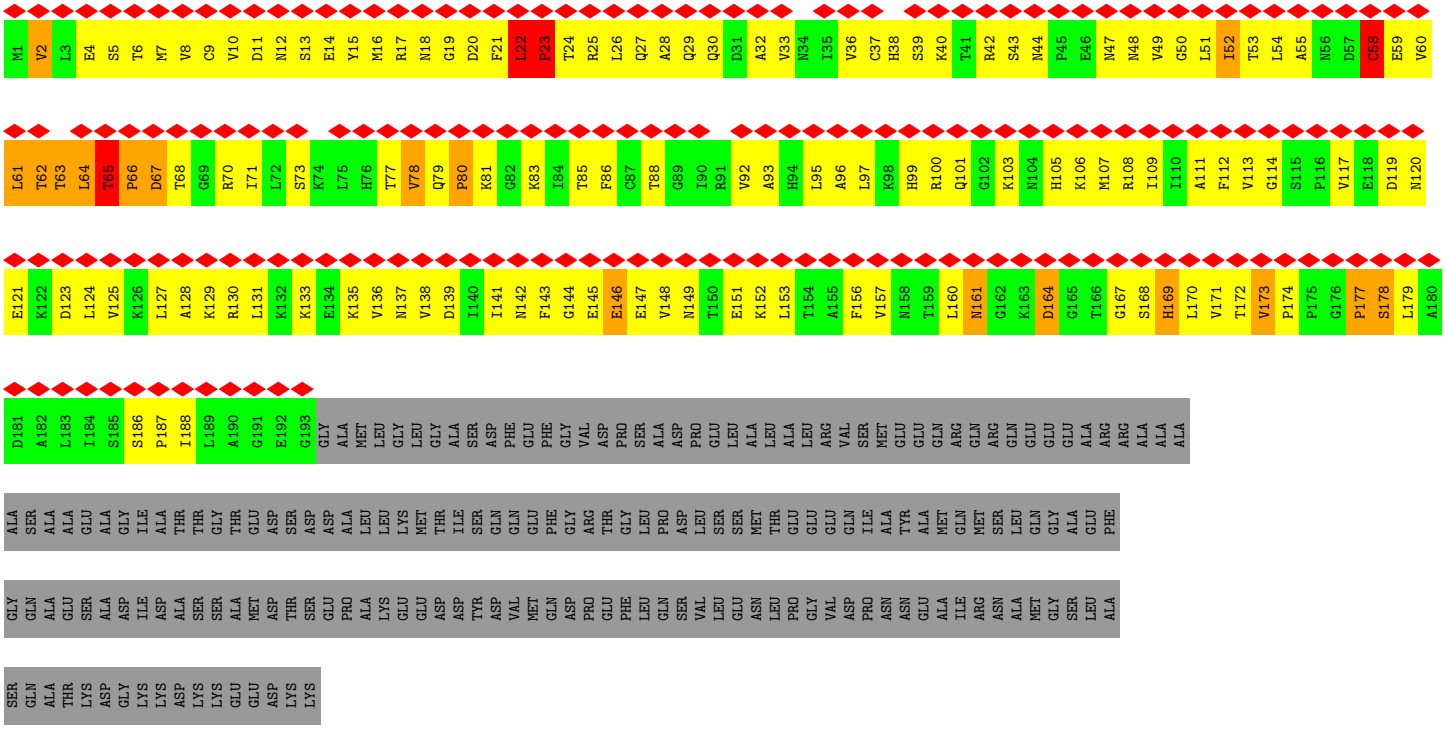




• Molecule 16: 26S proteasome non-ATPase regulatory subunit 4

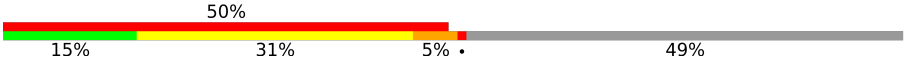
Chain W:

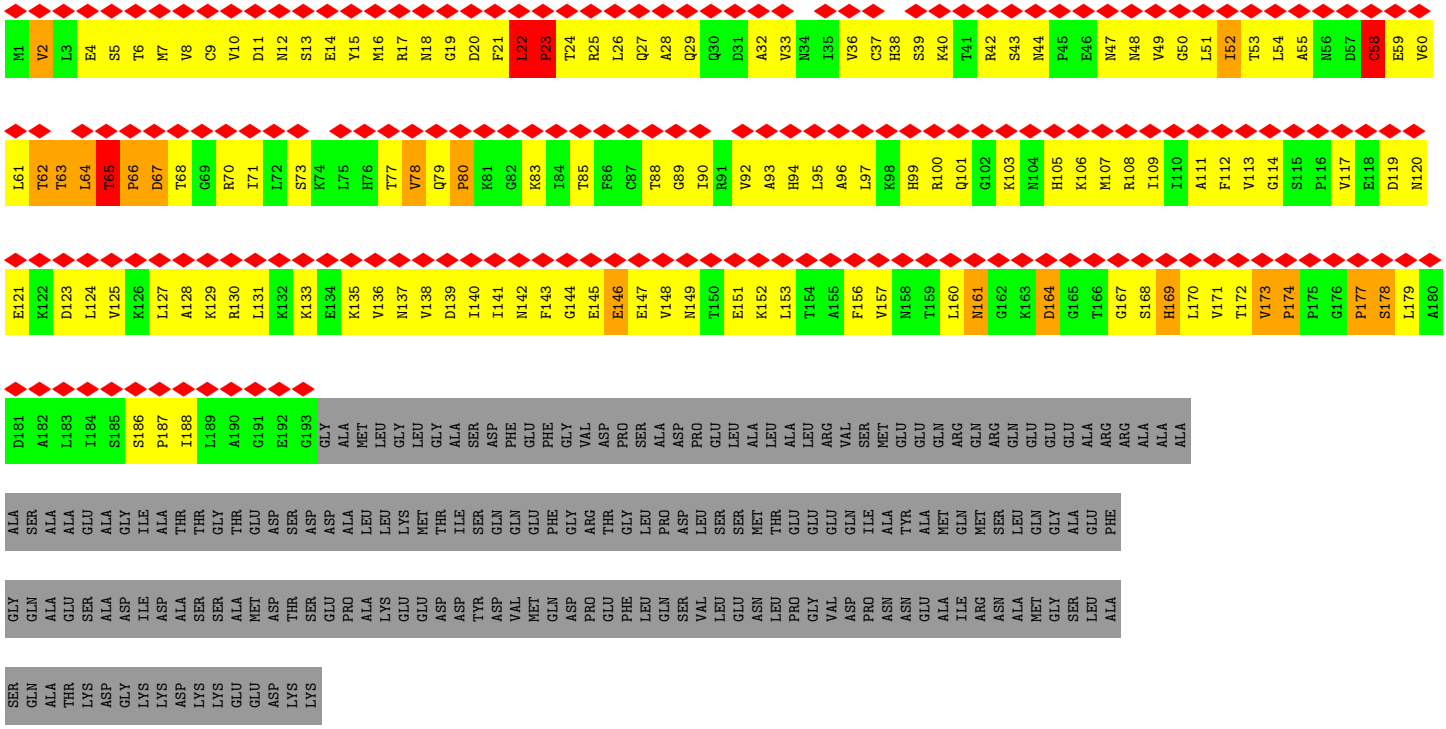




• Molecule 16: 26S proteasome non-ATPase regulatory subunit 4

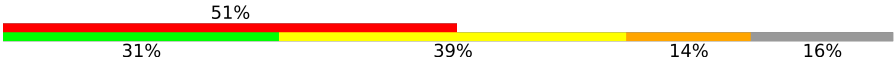
Chain AA:

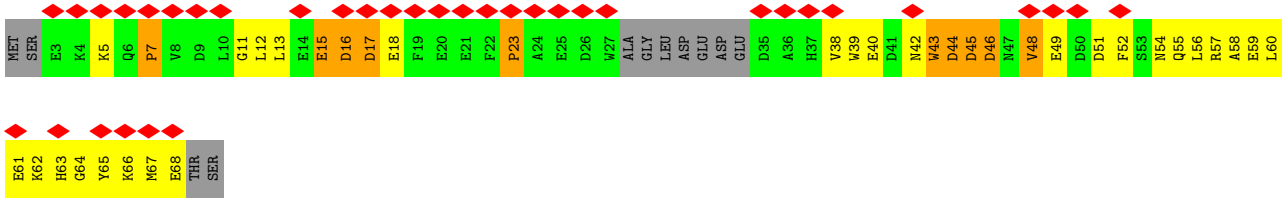




• Molecule 17: 26S proteasome complex subunit DSS1

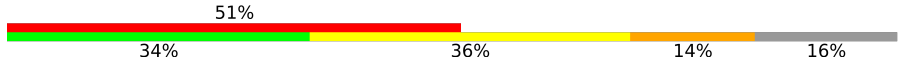
Chain Y:

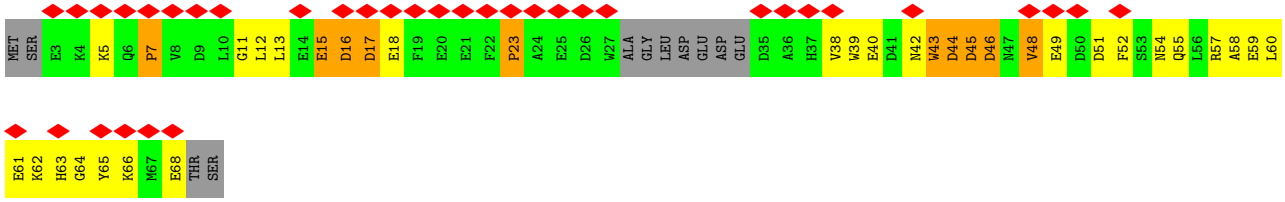




• Molecule 17: 26S proteasome complex subunit DSS1

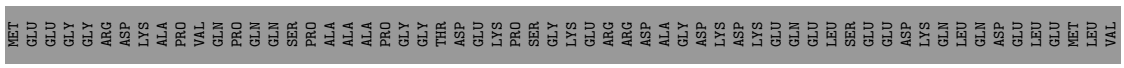
Chain AB:

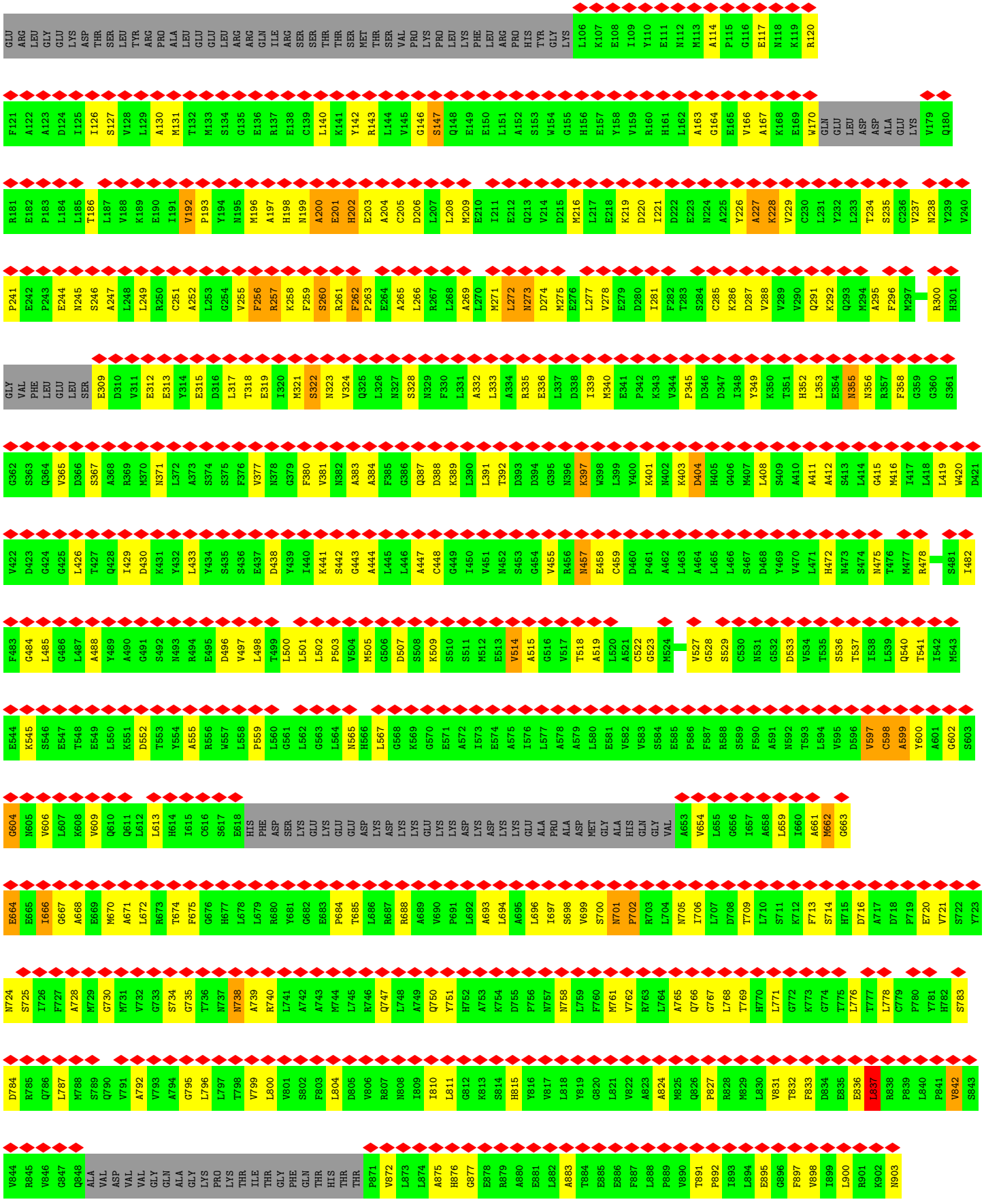




• Molecule 18: 26S proteasome non-ATPase regulatory subunit 2

Chain Z:

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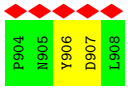
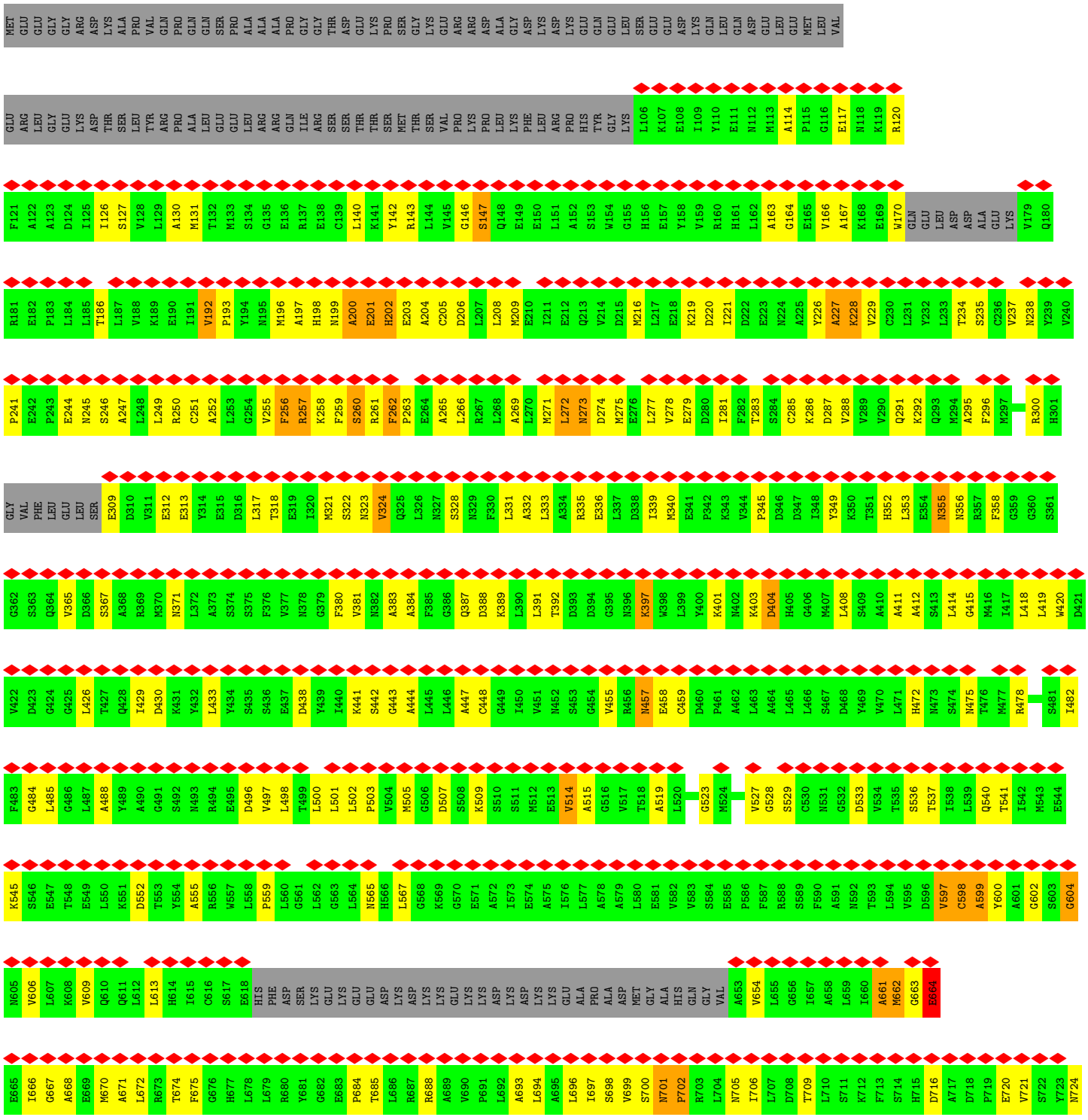
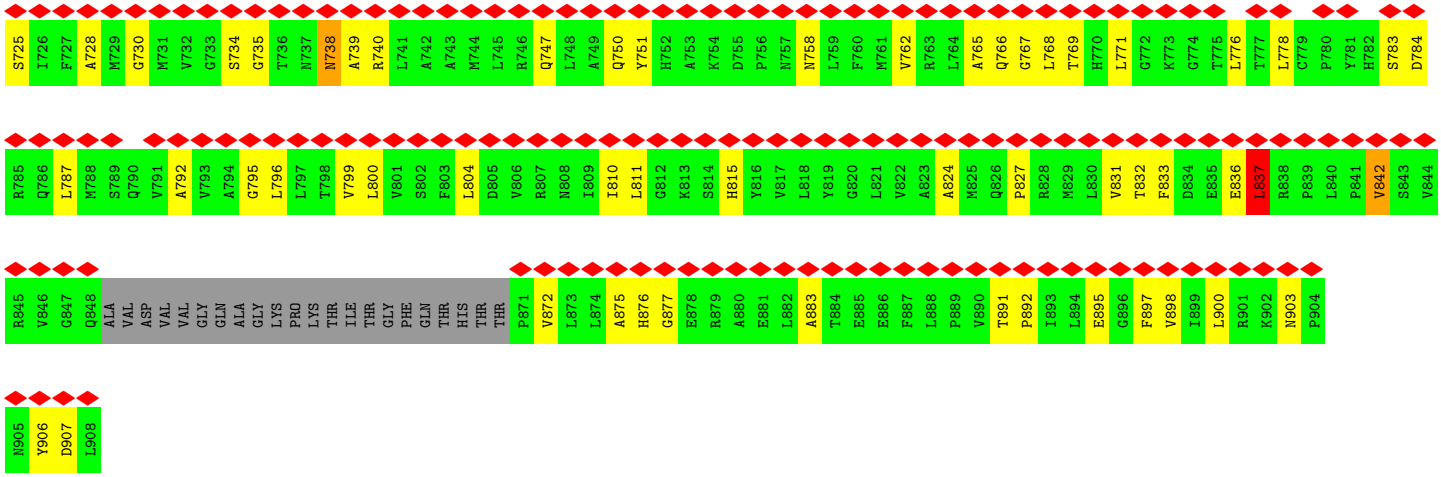
L106 K107 E108 I109 Y110 E111 N112 M113 A114 P115 G116 E117 N118 K119 R120
F121 A122 A123 D124 I125 I126 S127 V128 L129 A130 M131 T132 M133 S134 G135 E136 R137 E138 C139 L140 K141 Y142 R143 L144 V145 G146 S147 Q148 E149 E150 L151 A152 S153 W154 G155 H156 E157 Y158 V159 R160 H161 L162 A163 G164 E165 V166 A167 K168 E169 W170 GLN GLU LEU ASP ASA GLU LYS V179 Q180
R181 E182 P183 L184 L185 T186 L187 V188 K189 E190 I191 V192 P193 Y194 N195 M196 A197 H198 N199 A200 E201 H202 E203 A204 C205 D206 L207 L208 M209 E210 I211 E212 Q213 V214 D215 M216 L217 E218 K219 D220 I221 D222 E223 N224 A225 Y226 A227 K228 V229 C230 L231 Y232 L233 T234 S235 C236 V237 N238 Y239 V240
P241 E242 P243 E244 N245 S246 A247 L248 L249 R250 C251 A252 L253 G254 V255 F256 R257 K258 F259 S260 R261 F262 P263 E264 A265 L266 R267 L268 A269 L270 M271 L272 N273 D274 M275 E276 L277 V278 E279 D280 I281 F282 T283 S284 C285 K286 D287 V288 V289 V290 Q291 K292 Q293 M294 A295 F296 M297 R300 H301
GLY VAL PHE LEU GLU LEU SER E309 D310 V311 E312 E313 Y314 E315 D316 L317 T318 E319 I320 M321 S322 N323 V324 Q325 L326 N327 S328 N329 F330 L331 A332 L333 A334 R335 E336 L337 D338 I339 M340 E341 P342 K343 V344 P345 D346 D347 I348 Y349 K350 T351 H352 L353 E354 N355 N356 R357 F358 G359 G360 S361
G362 S363 Q364 V365 D366 S367 A368 R369 M370 N371 L372 A373 S374 S375 F376 V377 N378 G379 F380 V381 N382 A383 A384 F385 G386 Q387 D388 K389 L390 L391 T392 D393 D394 G395 N396 K397 W398 L399 Y400 K401 N402 K403 D404 H405 G406 M407 L408 S409 A410 A411 A412 S413 L414 G415 M416 I417 L418 L419 W420 D421
V422 D423 G424 G425 L426 T427 Q428 I429 D430 K431 Y432 L433 Y434 S435 S436 E437 D438 Y439 I440 K441 S442 G443 A444 L445 L446 A447 C448 G449 I450 V451 N452 S453 G454 V455 R456 N457 E458 C459 D460 P461 A462 L463 A464 L465 L466 S467 D468 Y469 V470 L471 H472 N473 S474 N475 T476 M477 R478 S481 I482
F483 G484 L485 G486 L487 A488 Y489 A490 G491 S492 N493 R494 E495 D496 V497 L498 T499 L500 L501 L502 P503 V504 M505 G506 D507 S508 K509 S510 S511 M512 E513 V514 A515 G516 V517 T518 A519 L520 A521 C522 G523 M524 V527 G528 S529 C530 N531 G532 D533 V534 T535 S536 T537 I538 L539 Q540 T541 I542 M543
E544 K545 S546 E547 T548 E549 L550 K551 D552 T553 Y554 A555 R556 W557 L558 P559 L560 G561 L562 G563 L564 N565 H566 L567 G568 K569 G570 E571 A572 I573 E574 A575 I576 L577 A578 A579 L580 E581 V582 V583 S584 E585 P586 F587 R588 S589 F590 A591 N592 T593 L594 V595 D596 V597 C598 A599 Y600 A601 G602 S603
G604 N605 V606 L607 K608 V609 Q610 Q611 L612 L613 H614 I615 C616 S617 E618 HIS PHE ASP SER LYS GLU LYS GLU GLU ASP LYS ASP LYS LYS GLU LYS LYS LYS ASP LYS ASP LYS LYS GLU ALA PRO ALA ASP MET GLY ALA HIS GLN GLY VAL A653 V654 L655 G656 I657 A658 L659 I660 A661 M662 G663
E664 E665 I666 G667 A668 E669 M670 A671 L672 R673 T674 F675 G676 H677 L678 L679 R680 Y681 G682 E683 P684 T685 L686 R687 R688 A689 V690 P691 L692 A693 L694 A695 L696 I697 S698 V699 S700 N701 P702 R703 L704 N705 I706 L707 D708 T709 L710 S711 K712 F713 S714 H715 D716 A717 D718 P719 E720 V721 S722 Y723
N724 S725 L726 F727 A728 M729 G730 M731 V732 G733 S734 G735 T736 N737 N738 A739 R740 L741 A742 A743 M744 L745 R746 Q747 L748 A749 Q750 Y751 H752 A753 K754 D755 P756 N757 N758 L759 F760 M761 V762 R763 L764 A765 Q766 G767 L768 T769 H770 L771 G772 K773 G774 T775 L776 T777 L778 C779 F780 Y781 H782 S783
D784 R785 Q786 L787 M788 S789 Q790 V791 A792 V793 A794 G795 L796 L797 T798 V799 L800 V801 S802 F803 L804 D805 V806 R807 M808 I809 I810 L811 G812 K813 S814 H815 Y816 V817 L818 Y819 G820 L821 V822 A823 A824 M825 Q826 P827 R828 M829 L830 V831 T832 P833 D834 E835 E836 L837 R838 P839 L840 P841 V842 S843
V844 R845 V846 G847 Q848 ALA VAL ASP VAL VAL GLY GLN ALA GLY LYS PRO LYS THR ILE THR GLY PHE GLN THR HIS THR THR P871 V872 L873 L874 A875 H876 G877 E878 R879 A880 E881 L882 A883 T884 E885 E886 F887 L888 P889 V890 T891 P892 I893 L894 E895 G896 F897 V898 I899 L900 R901 K902 N903



• Molecule 18: 26S proteasome non-ATPase regulatory subunit 2

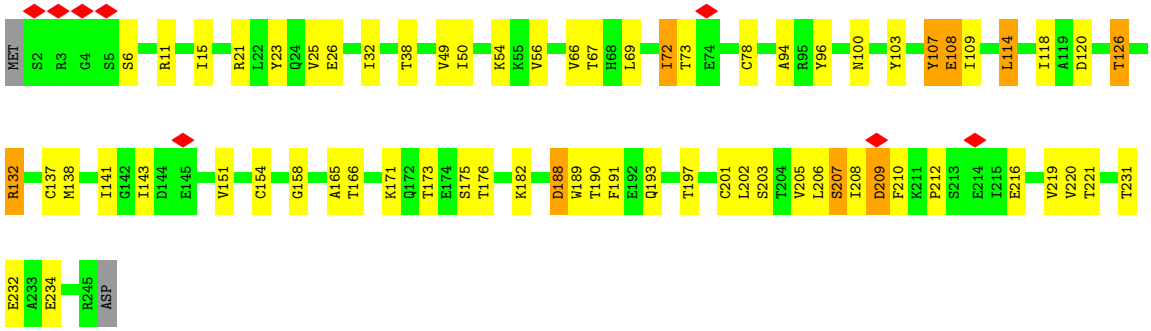
Chain AC:





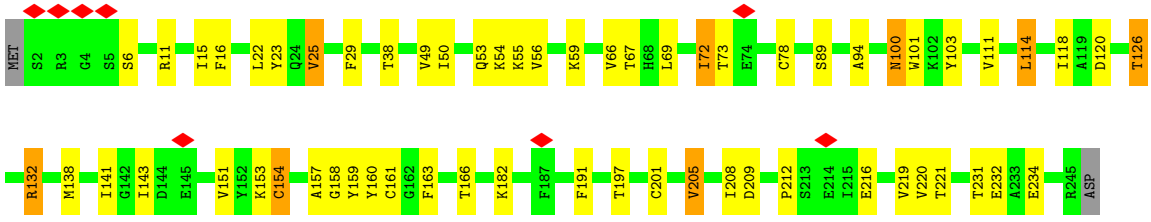
• Molecule 19: Proteasome subunit alpha type-6

Chain B:



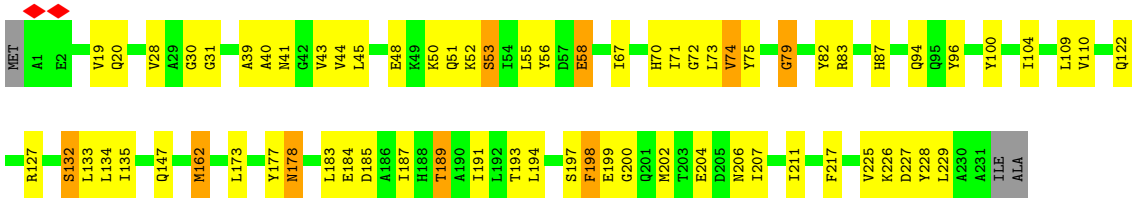
• Molecule 19: Proteasome subunit alpha type-6

Chain h:



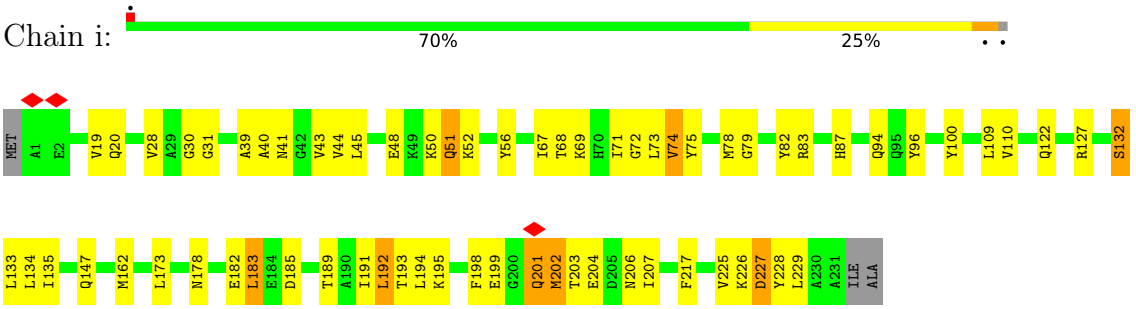
• Molecule 20: Proteasome subunit alpha type-2

Chain C:



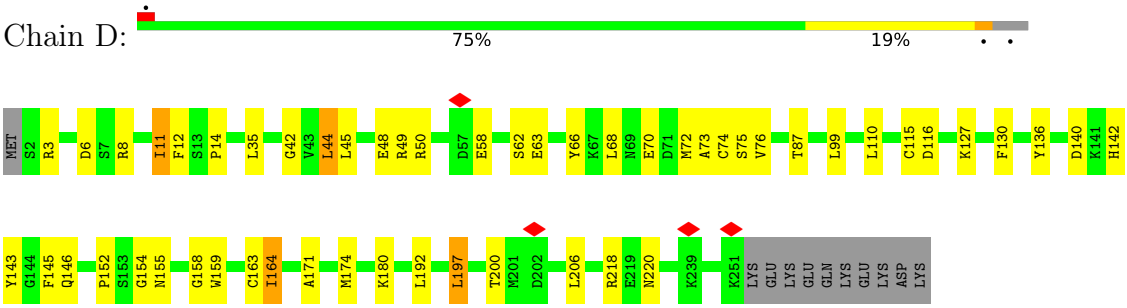
• Molecule 20: Proteasome subunit alpha type-2

Chain i:



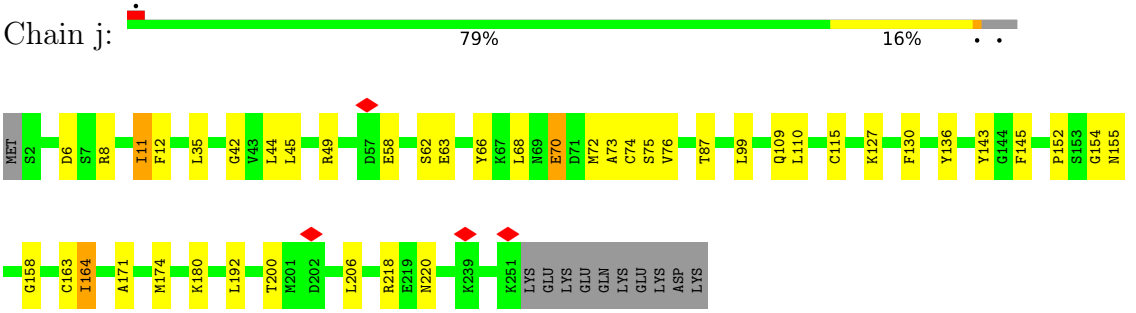
• Molecule 21: Proteasome subunit alpha type-4

Chain D:



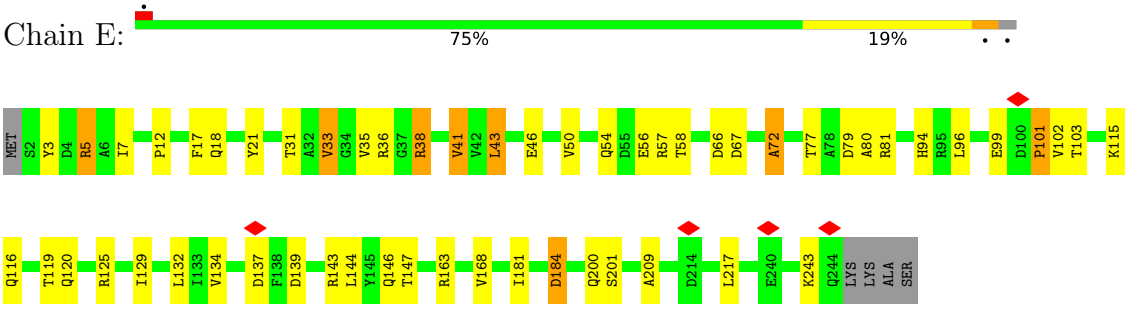
• Molecule 21: Proteasome subunit alpha type-4

Chain j:



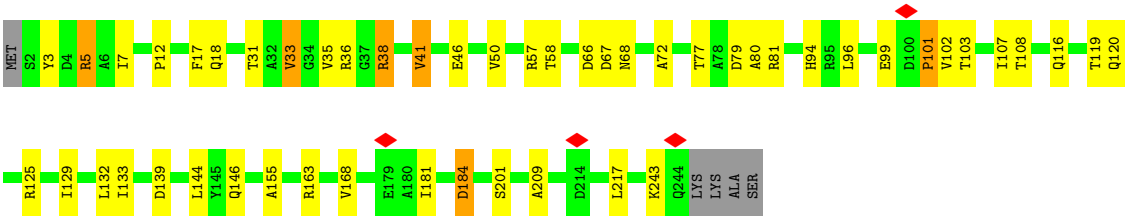
• Molecule 22: Proteasome subunit alpha type-7

Chain E:



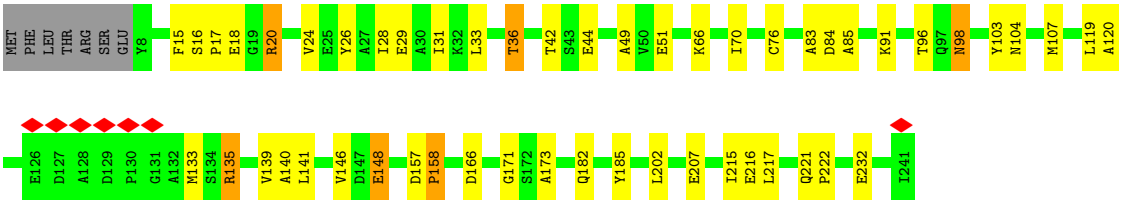
• Molecule 22: Proteasome subunit alpha type-7

Chain k:



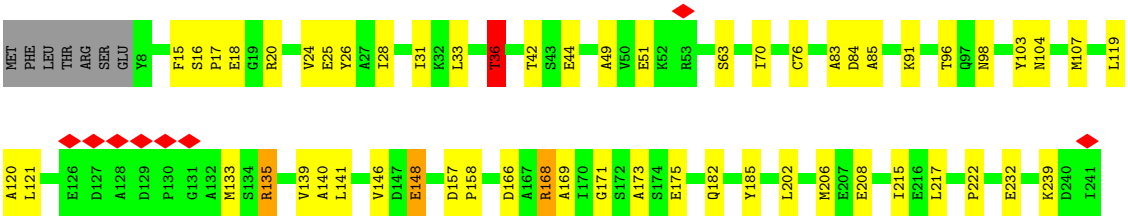
• Molecule 23: Proteasome subunit alpha type-5

Chain F:



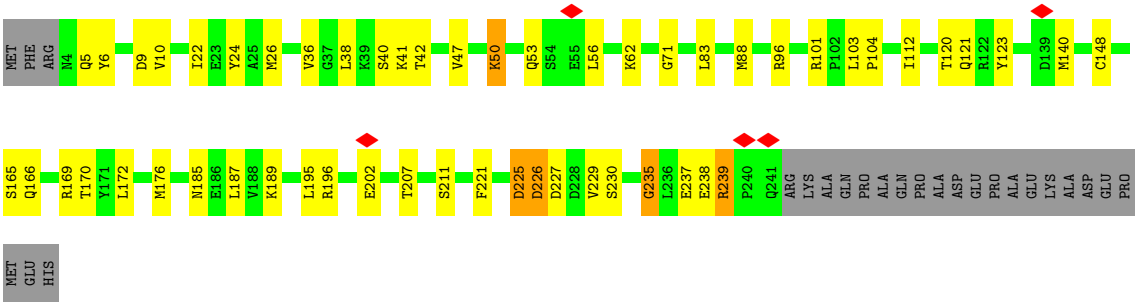
• Molecule 23: Proteasome subunit alpha type-5

Chain l:



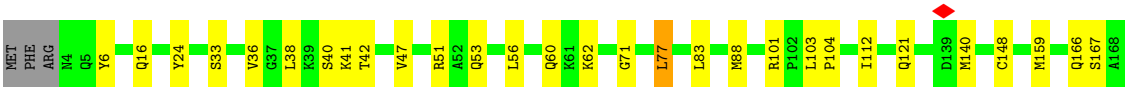
• Molecule 24: Proteasome subunit alpha type-1

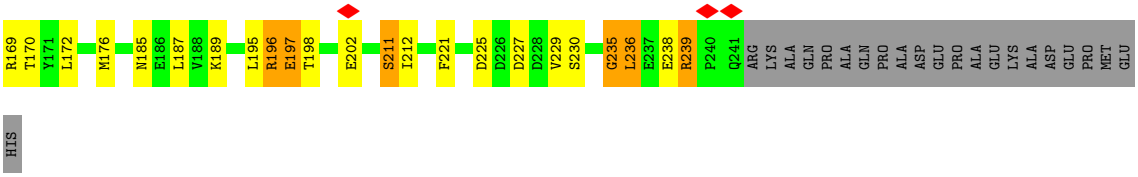
Chain G:



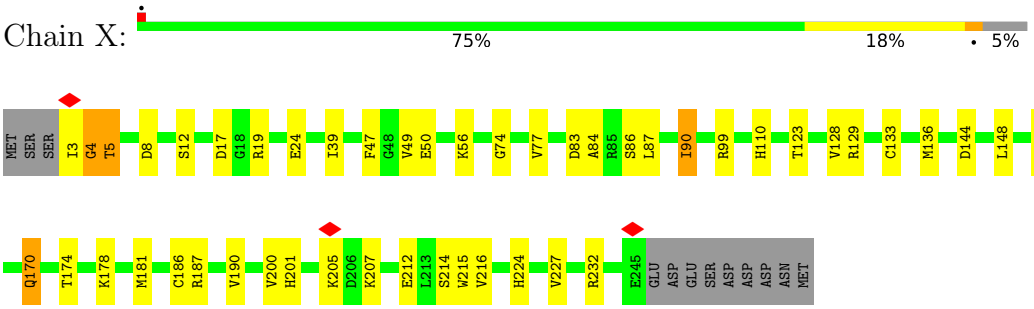
• Molecule 24: Proteasome subunit alpha type-1

Chain m:

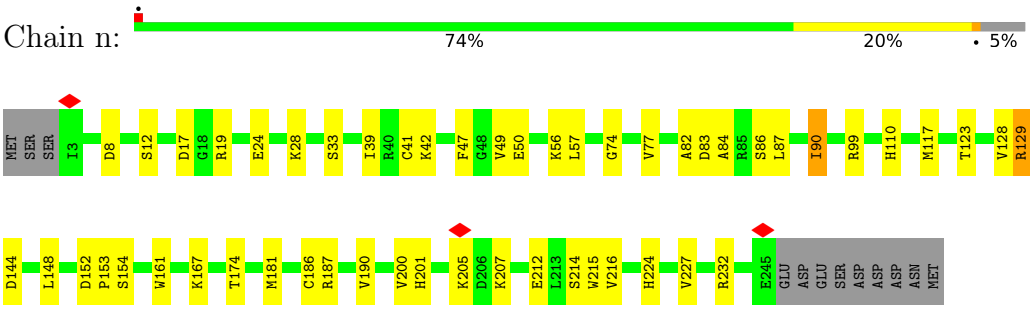




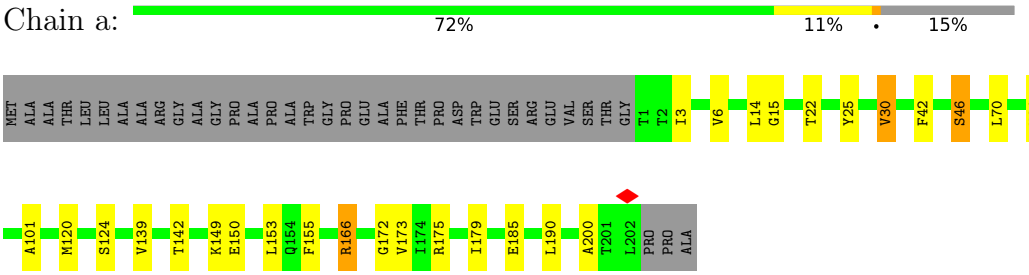
• Molecule 25: Proteasome subunit alpha type-3



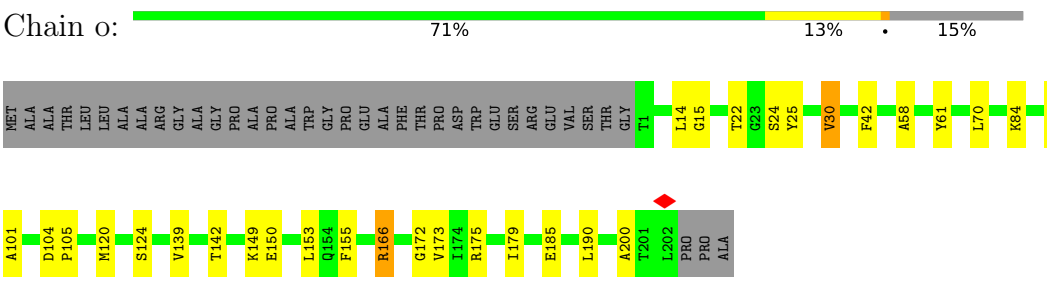
• Molecule 25: Proteasome subunit alpha type-3



• Molecule 26: Proteasome subunit beta type-6

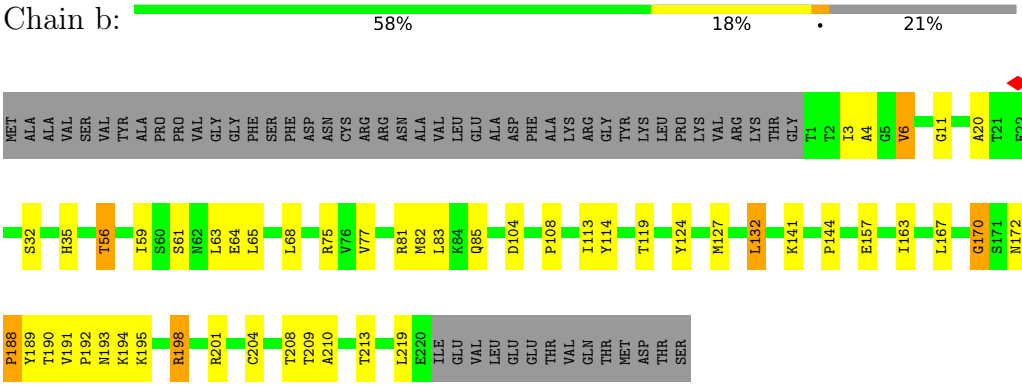


• Molecule 26: Proteasome subunit beta type-6



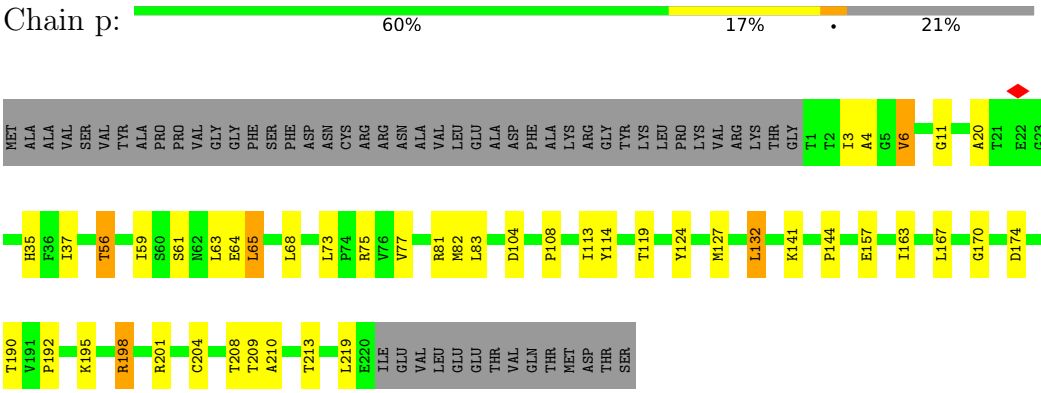
• Molecule 27: Proteasome subunit beta type-7

Chain b:



• Molecule 27: Proteasome subunit beta type-7

Chain p:



• Molecule 28: Proteasome subunit beta type-3

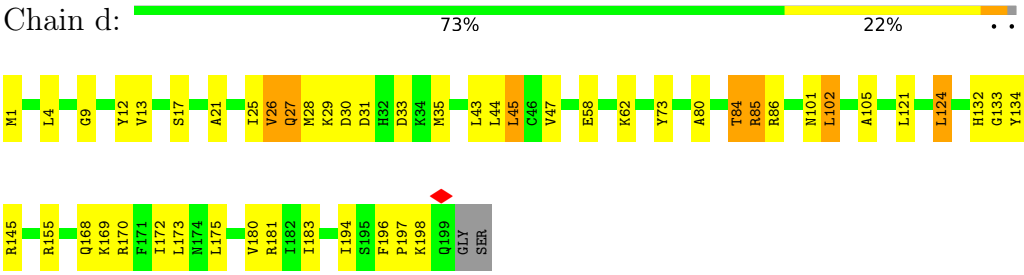
Chain c:

• Molecule 28: Proteasome subunit beta type-3

Chain q:

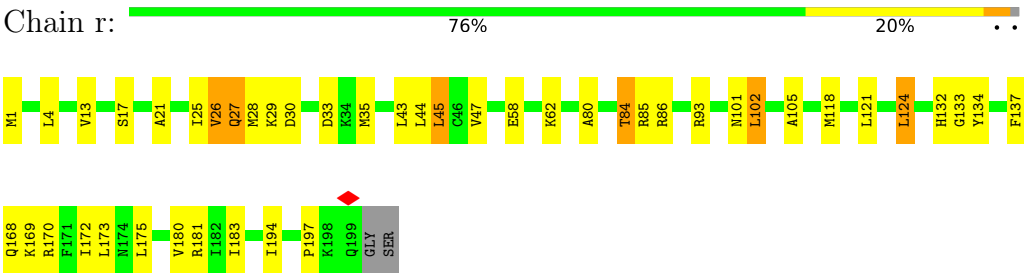
• Molecule 29: Proteasome subunit beta type-2

Chain d:



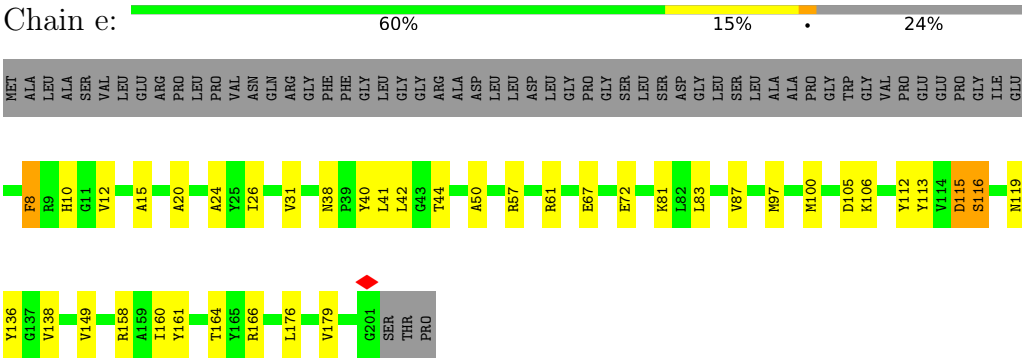
• Molecule 29: Proteasome subunit beta type-2

Chain r:



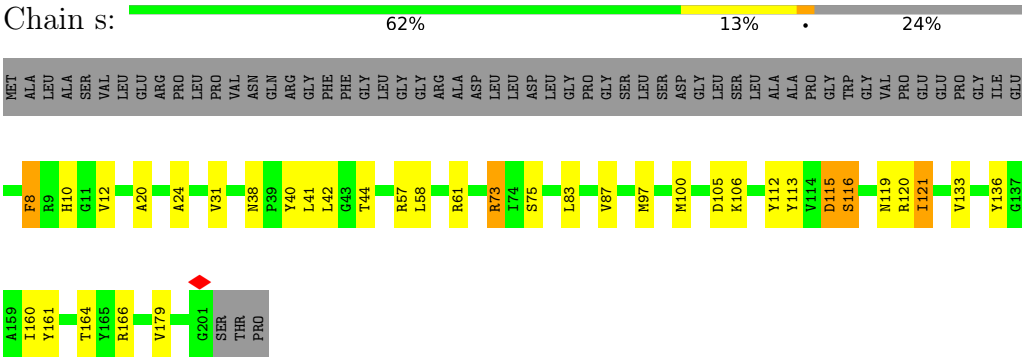
• Molecule 30: Proteasome subunit beta type-5

Chain e:



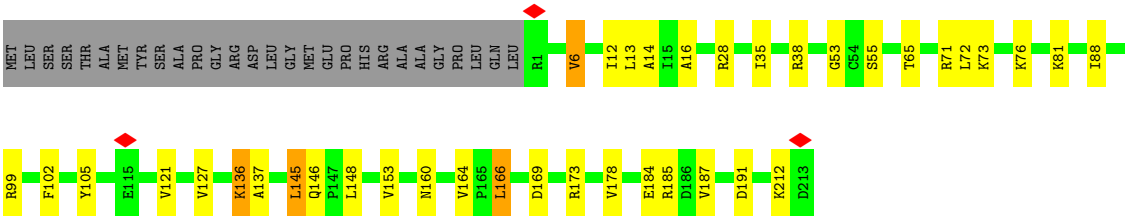
• Molecule 30: Proteasome subunit beta type-5

Chain s:



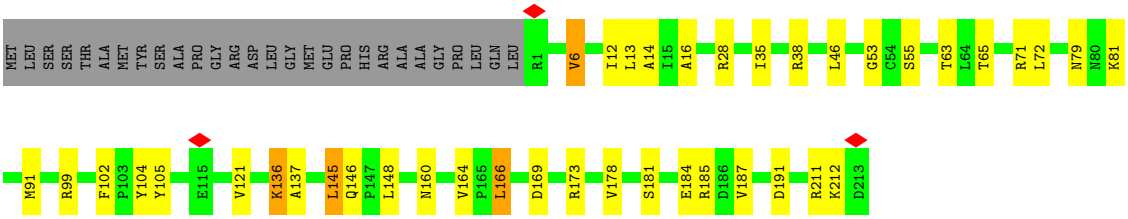
• Molecule 31: Proteasome subunit beta type-1

Chain f:



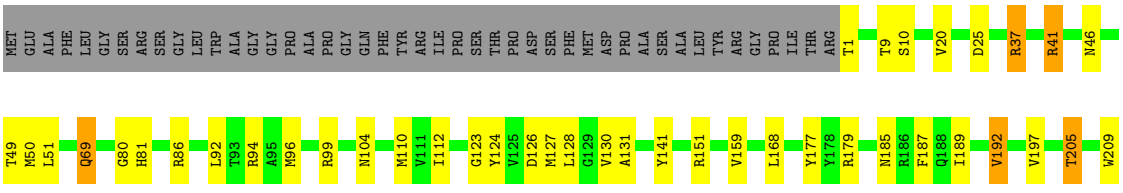
• Molecule 31: Proteasome subunit beta type-1

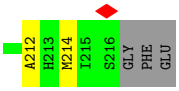
Chain t:



• Molecule 32: Proteasome subunit beta type-4

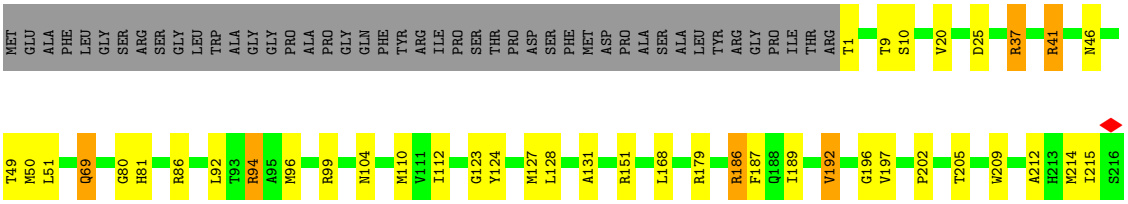
Chain g:





• Molecule 32: Proteasome subunit beta type-4

Chain u:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	165699	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	37	Depositor
Minimum defocus (nm)	1.6	Depositor
Maximum defocus (nm)	2.6	Depositor
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	0.258	Depositor
Minimum map value	-0.127	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.0336	Depositor
Map size (Å)	547.84, 547.84, 547.84	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.07, 1.07, 1.07	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	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	I	0.86	2/2756 (0.1%)	1.10	19/3727 (0.5%)
1	w	0.86	2/2756 (0.1%)	1.10	19/3727 (0.5%)
2	H	1.01	12/2939 (0.4%)	1.16	27/3970 (0.7%)
2	v	1.02	13/2939 (0.4%)	1.16	27/3970 (0.7%)
3	L	0.90	3/2904 (0.1%)	1.00	19/3924 (0.5%)
3	z	0.89	2/2904 (0.1%)	0.99	17/3924 (0.4%)
4	0	0.86	2/2896 (0.1%)	1.02	18/3912 (0.5%)
4	M	0.86	2/2896 (0.1%)	1.02	18/3912 (0.5%)
5	J	0.78	2/2857 (0.1%)	0.94	3/3844 (0.1%)
5	x	0.78	2/2857 (0.1%)	0.94	3/3844 (0.1%)
6	K	0.81	1/3089 (0.0%)	0.98	14/4168 (0.3%)
6	y	0.81	1/3089 (0.0%)	0.98	14/4168 (0.3%)
7	1	0.52	2/5506 (0.0%)	0.83	8/7425 (0.1%)
7	N	0.52	2/5506 (0.0%)	0.83	8/7425 (0.1%)
8	2	0.63	3/2390 (0.1%)	0.88	12/3215 (0.4%)
8	O	0.63	3/2383 (0.1%)	0.88	12/3206 (0.4%)
9	3	0.67	4/2860 (0.1%)	0.91	13/3860 (0.3%)
9	P	0.67	4/2861 (0.1%)	0.91	13/3861 (0.3%)
10	4	0.71	4/2989 (0.1%)	0.88	13/4054 (0.3%)
10	Q	0.68	4/2989 (0.1%)	0.88	11/4054 (0.3%)
11	5	0.65	3/2820 (0.1%)	0.85	9/3815 (0.2%)
11	R	0.65	3/2817 (0.1%)	0.85	9/3812 (0.2%)
12	6	0.58	1/2754 (0.0%)	0.83	5/3728 (0.1%)
12	S	0.58	1/2745 (0.0%)	0.83	5/3717 (0.1%)
13	7	0.55	0/1713	0.80	2/2306 (0.1%)
13	T	0.55	0/1713	0.80	2/2306 (0.1%)
14	8	0.58	0/2167	0.76	2/2936 (0.1%)
14	U	0.58	0/2167	0.76	2/2936 (0.1%)
15	9	0.60	0/2045	0.81	5/2760 (0.2%)
15	V	0.60	0/2047	0.81	5/2763 (0.2%)
16	AA	0.57	0/1312	1.00	7/1769 (0.4%)
16	W	0.57	0/1312	1.00	7/1769 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AB	0.64	0/315	1.33	4/433 (0.9%)
17	Y	0.64	0/315	1.33	4/433 (0.9%)
18	AC	0.54	1/3603 (0.0%)	0.89	8/5005 (0.2%)
18	Z	0.55	2/3603 (0.1%)	0.90	7/5005 (0.1%)
19	B	0.96	1/1878 (0.1%)	0.99	5/2549 (0.2%)
19	h	1.01	3/1886 (0.2%)	0.99	5/2557 (0.2%)
20	C	1.06	1/1773 (0.1%)	0.99	2/2409 (0.1%)
20	i	1.07	1/1780 (0.1%)	0.99	0/2417
21	D	1.11	5/1946 (0.3%)	0.98	2/2633 (0.1%)
21	j	1.21	6/1943 (0.3%)	0.98	3/2629 (0.1%)
22	E	0.97	1/1748 (0.1%)	0.97	1/2386 (0.0%)
22	k	0.98	2/1716 (0.1%)	1.00	1/2347 (0.0%)
23	F	1.00	2/1794 (0.1%)	1.01	3/2430 (0.1%)
23	l	1.03	2/1753 (0.1%)	1.04	3/2346 (0.1%)
24	G	0.97	0/1885	0.97	2/2552 (0.1%)
24	m	0.97	0/1885	0.97	2/2552 (0.1%)
25	X	1.00	0/1908	0.96	2/2575 (0.1%)
25	n	0.99	1/1908 (0.1%)	0.96	1/2575 (0.0%)
26	a	1.09	4/1535 (0.3%)	0.99	1/2078 (0.0%)
26	o	1.09	5/1535 (0.3%)	0.99	2/2078 (0.1%)
27	b	1.01	1/1670 (0.1%)	1.06	4/2265 (0.2%)
27	p	1.02	1/1670 (0.1%)	1.02	0/2265
28	c	1.19	3/1614 (0.2%)	1.05	1/2177 (0.0%)
28	q	1.19	4/1614 (0.2%)	1.04	1/2177 (0.0%)
29	d	1.06	3/1603 (0.2%)	0.97	2/2174 (0.1%)
29	r	1.07	3/1603 (0.2%)	0.97	2/2174 (0.1%)
30	e	1.16	4/1579 (0.3%)	0.97	0/2134
30	s	1.15	4/1582 (0.3%)	0.97	0/2138
31	f	1.13	3/1674 (0.2%)	0.99	1/2257 (0.0%)
31	t	1.13	3/1674 (0.2%)	0.98	1/2257 (0.0%)
32	g	1.12	5/1705 (0.3%)	1.00	1/2312 (0.0%)
32	u	1.11	6/1711 (0.4%)	0.99	0/2319
All	All	0.85	155/144386 (0.1%)	0.95	419/195445 (0.2%)

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

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

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	H	0	1
2	v	0	1
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
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
27	b	0	2
All	All	0	120

All (155) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	j	70	GLU	CD-OE1	25.86	1.74	1.25
21	D	70	GLU	CD-OE1	13.53	1.51	1.25
21	D	70	GLU	CD-OE2	13.11	1.50	1.25
10	4	48	GLN	C-N	12.92	1.51	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	P	168	GLU	CA-C	-12.36	1.46	1.52
9	3	168	GLU	CA-C	-12.36	1.46	1.52
10	Q	163	LYS	N-CA	-10.87	1.32	1.46
10	4	163	LYS	N-CA	-10.87	1.32	1.46
21	j	70	GLU	CD-OE2	10.80	1.45	1.25
31	f	53	GLY	CA-C	-10.49	1.44	1.52
31	t	53	GLY	CA-C	-10.44	1.44	1.52
10	Q	162	ASP	CA-C	-9.95	1.40	1.52
10	4	162	ASP	CA-C	-9.95	1.40	1.52
32	g	179	ARG	CZ-NH1	9.11	1.45	1.32
28	q	188	HIS	CA-C	-9.10	1.42	1.52
32	g	179	ARG	NE-CZ	8.86	1.42	1.33
28	c	188	HIS	CA-C	-8.73	1.42	1.52
2	v	91	GLN	C-N	8.52	1.41	1.33
32	u	179	ARG	CZ-NH1	8.44	1.44	1.32
30	s	112	TYR	C-O	-8.37	1.14	1.24
1	I	344	PRO	CA-C	-8.24	1.45	1.53
1	w	344	PRO	CA-C	-8.24	1.45	1.53
30	e	112	TYR	C-O	-8.23	1.14	1.24
21	j	73	ALA	CA-C	-8.15	1.42	1.52
21	D	73	ALA	CA-C	-8.02	1.42	1.52
21	D	70	GLU	CG-CD	8.01	1.72	1.52
21	j	70	GLU	CG-CD	7.94	1.72	1.52
32	u	179	ARG	NE-CZ	7.70	1.41	1.33
18	Z	287	ASP	C-N	7.67	1.43	1.33
18	AC	287	ASP	C-N	7.67	1.43	1.33
2	H	336	ARG	CD-NE	-7.67	1.35	1.46
2	v	336	ARG	CD-NE	-7.67	1.35	1.46
10	Q	48	GLN	C-N	7.65	1.44	1.34
4	M	168	TYR	CA-C	-7.59	1.42	1.52
4	0	168	TYR	CA-C	-7.59	1.42	1.52
26	o	166	ARG	NE-CZ	7.45	1.41	1.33
2	H	155	PRO	C-N	-7.34	1.23	1.33
2	v	155	PRO	C-N	-7.34	1.23	1.33
26	a	166	ARG	NE-CZ	7.33	1.41	1.33
32	g	123	GLY	CA-C	-7.29	1.45	1.51
9	P	169	LEU	N-CA	-7.28	1.36	1.46
9	3	169	LEU	N-CA	-7.28	1.36	1.46
11	R	231	LEU	N-CA	7.28	1.55	1.45
11	5	231	LEU	N-CA	7.28	1.55	1.45
23	F	15	PHE	N-CA	7.20	1.55	1.45
32	u	123	GLY	CA-C	-7.15	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	o	166	ARG	CD-NE	7.05	1.56	1.46
10	Q	162	ASP	C-N	-6.93	1.23	1.33
10	4	162	ASP	C-N	-6.93	1.23	1.33
21	D	136	TYR	CA-C	-6.89	1.44	1.52
21	j	136	TYR	CA-C	-6.82	1.44	1.52
2	H	156	LYS	N-CA	-6.78	1.37	1.45
2	v	156	LYS	N-CA	-6.78	1.37	1.45
19	B	25	VAL	CA-CB	-6.76	1.45	1.54
19	h	25	VAL	CA-CB	-6.75	1.45	1.54
23	l	15	PHE	N-CA	6.62	1.54	1.46
31	t	105	TYR	CA-C	-6.62	1.46	1.53
8	O	286	ALA	CA-C	6.45	1.55	1.52
8	2	286	ALA	CA-C	6.45	1.55	1.52
3	L	47	LEU	N-CA	6.42	1.53	1.46
3	z	47	LEU	N-CA	6.42	1.53	1.46
2	H	334	PRO	CA-C	-6.36	1.46	1.53
2	v	334	PRO	CA-C	-6.36	1.46	1.53
31	f	105	TYR	CA-C	-6.36	1.46	1.53
26	a	166	ARG	CD-NE	6.34	1.55	1.46
2	H	240	VAL	C-O	-6.31	1.17	1.24
2	v	240	VAL	C-O	-6.31	1.17	1.24
5	J	25	LEU	N-CA	-6.31	1.38	1.46
5	x	25	LEU	N-CA	-6.31	1.38	1.46
31	f	145	LEU	C-O	-6.31	1.16	1.24
31	t	145	LEU	C-O	-6.28	1.16	1.24
1	I	142	ASP	CG-OD1	6.22	1.37	1.25
1	w	142	ASP	CG-OD1	6.22	1.37	1.25
27	p	4	ALA	C-O	-6.20	1.16	1.23
7	N	323	LEU	C-N	6.18	1.41	1.33
7	1	323	LEU	C-N	6.18	1.41	1.33
11	R	289	ALA	C-N	6.12	1.38	1.33
11	5	289	ALA	C-N	6.12	1.38	1.33
28	c	51	ILE	CA-CB	-6.11	1.47	1.54
3	L	275	MET	N-CA	6.05	1.53	1.46
3	z	275	MET	N-CA	6.05	1.53	1.46
8	O	265	GLU	N-CA	-6.05	1.38	1.46
8	2	265	GLU	N-CA	-6.05	1.38	1.46
27	b	4	ALA	C-O	-6.04	1.16	1.23
30	s	121	ILE	C-O	-6.02	1.18	1.24
2	H	155	PRO	CA-C	-5.99	1.43	1.52
2	v	155	PRO	CA-C	-5.99	1.43	1.52
30	e	121	ILE	C-O	-5.96	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	v	346	PRO	N-CD	5.96	1.56	1.47
28	q	187	VAL	CA-CB	-5.86	1.47	1.54
5	J	347	ILE	CA-C	5.83	1.59	1.52
5	x	347	ILE	CA-C	5.83	1.59	1.52
28	q	51	ILE	CA-CB	-5.82	1.47	1.54
30	s	116	SER	CA-C	-5.74	1.44	1.52
22	E	72	ALA	CA-C	-5.74	1.45	1.52
30	e	116	SER	CA-C	-5.67	1.45	1.52
26	o	166	ARG	CZ-NH1	5.66	1.40	1.32
32	g	189	ILE	N-CA	-5.62	1.39	1.46
2	H	346	PRO	N-CD	5.60	1.55	1.47
9	P	406	VAL	CA-C	-5.52	1.45	1.52
32	u	189	ILE	N-CA	-5.52	1.39	1.46
9	3	406	VAL	CA-C	-5.52	1.45	1.52
20	i	71	ILE	CA-CB	-5.51	1.46	1.54
20	C	71	ILE	CA-CB	-5.51	1.46	1.54
32	u	41	ARG	CA-C	-5.50	1.45	1.52
26	a	166	ARG	CZ-NH1	5.47	1.40	1.32
30	s	42	LEU	C-O	-5.43	1.17	1.23
2	H	417	ILE	N-CA	-5.42	1.39	1.46
2	v	417	ILE	N-CA	-5.42	1.39	1.46
32	u	196	GLY	C-O	-5.42	1.20	1.24
28	c	187	VAL	CA-CB	-5.41	1.47	1.54
22	k	72	ALA	CA-C	-5.40	1.46	1.52
2	H	155	PRO	N-CA	-5.36	1.40	1.47
2	v	155	PRO	N-CA	-5.36	1.40	1.47
32	g	41	ARG	CA-C	-5.36	1.45	1.52
29	r	124	LEU	CA-C	-5.34	1.46	1.52
29	d	17	SER	CA-C	-5.33	1.46	1.52
11	R	33	GLY	C-O	5.32	1.31	1.23
11	5	33	GLY	C-O	5.32	1.31	1.23
4	M	230	GLY	C-O	-5.31	1.16	1.23
4	0	230	GLY	C-O	-5.31	1.16	1.23
29	d	124	LEU	CA-C	-5.30	1.46	1.52
19	h	154	CYS	C-O	-5.27	1.17	1.23
6	K	200	ARG	CZ-NH2	-5.26	1.26	1.33
29	r	17	SER	CA-C	-5.26	1.46	1.52
6	y	200	ARG	CZ-NH2	-5.26	1.26	1.33
30	e	42	LEU	C-O	-5.26	1.17	1.23
25	n	82	ALA	N-CA	5.24	1.52	1.46
2	H	388	VAL	N-CA	-5.23	1.40	1.46
2	v	388	VAL	N-CA	-5.23	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	a	6	VAL	C-O	-5.21	1.18	1.24
2	H	92	PRO	N-CD	5.17	1.54	1.47
23	l	36	THR	C-O	-5.17	1.17	1.23
22	k	68	ASN	C-O	-5.15	1.17	1.24
9	P	407	ASP	N-CA	-5.13	1.39	1.46
9	3	407	ASP	N-CA	-5.13	1.39	1.46
23	F	98	ASN	CA-C	-5.13	1.46	1.52
26	o	99	ILE	C-O	-5.12	1.18	1.24
19	h	101	TRP	CA-C	-5.11	1.46	1.52
26	o	58	ALA	C-O	5.11	1.30	1.24
21	j	109	GLN	C-O	-5.09	1.18	1.24
18	Z	666	ILE	CA-C	5.07	1.60	1.52
3	L	319	PRO	N-CD	5.06	1.54	1.47
7	N	428	PRO	N-CD	5.04	1.54	1.47
7	1	428	PRO	N-CD	5.04	1.54	1.47
2	H	237	PHE	C-O	-5.04	1.17	1.23
2	v	237	PHE	C-O	-5.04	1.17	1.23
8	O	264	ASN	C-N	-5.03	1.27	1.34
29	r	26	VAL	C-O	-5.03	1.18	1.24
8	2	264	ASN	C-N	-5.03	1.27	1.34
29	d	26	VAL	C-O	-5.03	1.18	1.24
12	S	219	GLU	CA-C	5.01	1.56	1.52
28	q	21	ALA	CA-C	-5.01	1.46	1.52
12	6	219	GLU	CA-C	5.01	1.56	1.52
2	v	92	PRO	N-CD	5.01	1.54	1.47

All (419) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	P	168	GLU	CA-C-O	14.27	127.90	119.77
9	3	168	GLU	CA-C-O	14.27	127.90	119.77
4	M	169	ASP	N-CA-C	13.72	130.95	110.64
4	0	169	ASP	N-CA-C	13.72	130.95	110.64
1	I	142	ASP	CB-CG-OD1	13.57	149.61	118.40
1	w	142	ASP	CB-CG-OD1	13.57	149.61	118.40
2	H	315	ILE	N-CA-C	-11.31	88.74	106.72
2	v	315	ILE	N-CA-C	-11.31	88.74	106.72
3	L	50	LEU	N-CA-C	11.11	124.58	111.02
3	z	50	LEU	N-CA-C	11.11	124.58	111.02
2	H	336	ARG	NE-CZ-NH1	-10.77	110.73	121.50
2	v	336	ARG	NE-CZ-NH1	-10.77	110.73	121.50
6	K	150	SER	N-CA-C	10.52	123.81	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	y	150	SER	N-CA-C	10.52	123.81	111.71
1	I	325	VAL	N-CA-C	-10.34	90.84	107.28
1	w	325	VAL	N-CA-C	-10.34	90.84	107.28
4	M	168	TYR	CB-CA-C	-10.06	90.39	110.42
4	0	168	TYR	CB-CA-C	-10.06	90.39	110.42
1	I	142	ASP	CB-CG-OD2	-10.06	95.27	118.40
1	w	142	ASP	CB-CG-OD2	-10.06	95.27	118.40
1	I	226	GLY	CA-C-N	-9.95	110.13	120.38
1	I	226	GLY	C-N-CA	-9.95	110.13	120.38
1	w	226	GLY	CA-C-N	-9.95	110.13	120.38
1	w	226	GLY	C-N-CA	-9.95	110.13	120.38
8	O	263	ALA	N-CA-C	9.82	131.71	110.80
8	2	263	ALA	N-CA-C	9.82	131.71	110.80
17	Y	44	ASP	N-CA-C	9.59	122.96	109.15
17	AB	44	ASP	N-CA-C	9.59	122.96	109.15
16	W	52	ILE	CB-CA-C	-9.59	93.92	111.18
16	AA	52	ILE	CB-CA-C	-9.59	93.92	111.18
3	L	148	VAL	CB-CA-C	9.56	125.41	112.22
3	z	148	VAL	CB-CA-C	9.56	125.41	112.22
2	H	94	GLN	N-CA-C	9.36	122.26	108.60
1	I	216	ILE	CB-CA-C	9.00	123.94	111.70
1	w	216	ILE	CB-CA-C	9.00	123.94	111.70
10	Q	33	ARG	N-CA-C	8.64	123.92	113.12
10	4	33	ARG	N-CA-C	8.64	123.92	113.12
10	Q	162	ASP	CA-C-O	8.52	129.97	120.43
10	4	162	ASP	CA-C-O	8.52	129.97	120.43
9	P	420	ASP	C-N-CD	-8.40	90.58	125.00
9	3	420	ASP	C-N-CD	-8.40	90.58	125.00
7	N	702	THR	N-CA-C	-8.33	101.89	110.97
7	1	702	THR	N-CA-C	-8.33	101.89	110.97
8	O	332	HIS	N-CA-C	-8.20	95.88	109.24
8	2	332	HIS	N-CA-C	-8.20	95.88	109.24
2	H	336	ARG	CD-NE-CZ	8.04	135.66	124.40
2	v	336	ARG	CD-NE-CZ	8.04	135.66	124.40
1	I	142	ASP	CA-CB-CG	8.01	120.61	112.60
1	w	142	ASP	CA-CB-CG	8.01	120.61	112.60
16	W	65	THR	N-CA-C	7.85	127.15	109.81
16	AA	65	THR	N-CA-C	7.85	127.15	109.81
2	v	91	GLN	CA-C-N	-7.79	112.89	120.83
2	v	91	GLN	C-N-CA	-7.79	112.89	120.83
17	Y	17	ASP	N-CA-C	7.53	120.80	109.95
17	AB	17	ASP	N-CA-C	7.53	120.80	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	Q	75	PRO	N-CA-CB	7.51	111.13	103.25
10	4	75	PRO	N-CA-CB	7.51	111.13	103.25
21	D	70	GLU	CB-CG-CD	7.44	125.25	112.60
9	P	443	THR	N-CA-C	7.40	120.05	111.02
9	3	443	THR	N-CA-C	7.40	120.05	111.02
21	j	70	GLU	CB-CG-CD	7.39	125.17	112.60
9	P	168	GLU	CB-CA-C	-7.36	100.54	115.27
9	3	168	GLU	CB-CA-C	-7.36	100.54	115.27
9	P	443	THR	CA-C-N	7.30	130.38	120.38
9	P	443	THR	C-N-CA	7.30	130.38	120.38
9	3	443	THR	CA-C-N	7.30	130.38	120.38
9	3	443	THR	C-N-CA	7.30	130.38	120.38
5	J	311	ILE	N-CA-C	-7.29	94.18	109.34
5	x	311	ILE	N-CA-C	-7.29	94.18	109.34
18	Z	891	THR	CA-C-N	7.26	128.92	119.84
18	Z	891	THR	C-N-CA	7.26	128.92	119.84
18	AC	891	THR	CA-C-N	7.26	128.92	119.84
18	AC	891	THR	C-N-CA	7.26	128.92	119.84
6	K	200	ARG	NE-CZ-NH2	-7.14	112.77	119.20
6	y	200	ARG	NE-CZ-NH2	-7.14	112.77	119.20
2	H	336	ARG	NE-CZ-NH2	7.13	125.62	119.20
2	v	336	ARG	NE-CZ-NH2	7.13	125.62	119.20
18	Z	201	GLU	N-CA-CB	-7.13	98.88	110.71
18	AC	201	GLU	N-CA-CB	-7.13	98.88	110.71
2	v	346	PRO	N-CA-C	7.06	127.02	112.47
2	H	216	GLY	CA-C-N	-6.98	113.19	120.38
2	H	216	GLY	C-N-CA	-6.98	113.19	120.38
2	v	216	GLY	CA-C-N	-6.98	113.19	120.38
2	v	216	GLY	C-N-CA	-6.98	113.19	120.38
11	R	33	GLY	N-CA-C	-6.94	96.72	113.18
11	5	33	GLY	N-CA-C	-6.94	96.72	113.18
10	Q	62	GLN	N-CA-C	-6.93	103.33	112.34
1	I	327	VAL	N-CA-C	6.87	117.93	107.77
1	w	327	VAL	N-CA-C	6.87	117.93	107.77
8	O	286	ALA	N-CA-C	-6.83	97.65	108.30
8	2	286	ALA	N-CA-C	-6.83	97.65	108.30
4	M	169	ASP	N-CA-CB	-6.83	98.68	109.19
4	0	169	ASP	N-CA-CB	-6.83	98.68	109.19
6	K	159	LYS	CA-C-N	-6.80	113.15	119.82
6	K	159	LYS	C-N-CA	-6.80	113.15	119.82
6	y	159	LYS	CA-C-N	-6.80	113.15	119.82
6	y	159	LYS	C-N-CA	-6.80	113.15	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	d	102	LEU	N-CA-C	6.80	119.76	109.23
29	r	102	LEU	N-CA-C	6.78	119.74	109.23
13	T	252	PRO	N-CA-CB	6.75	110.33	103.25
13	7	252	PRO	N-CA-CB	6.75	110.33	103.25
4	M	86	LEU	CA-C-N	-6.65	112.26	119.98
4	M	86	LEU	C-N-CA	-6.65	112.26	119.98
4	0	86	LEU	CA-C-N	-6.65	112.26	119.98
4	0	86	LEU	C-N-CA	-6.65	112.26	119.98
1	I	216	ILE	N-CA-C	-6.57	99.96	109.29
1	w	216	ILE	N-CA-C	-6.57	99.96	109.29
22	E	17	PHE	N-CA-C	6.55	118.42	111.28
2	H	166	VAL	N-CA-C	6.54	122.95	109.34
2	v	166	VAL	N-CA-C	6.54	122.95	109.34
19	B	56	VAL	CA-C-N	6.51	126.64	119.87
19	B	56	VAL	C-N-CA	6.51	126.64	119.87
12	S	91	PRO	N-CA-CB	6.50	110.72	103.44
15	V	139	ARG	NE-CZ-NH2	-6.50	113.35	119.20
12	6	91	PRO	N-CA-CB	6.50	110.72	103.44
15	9	139	ARG	NE-CZ-NH2	-6.50	113.35	119.20
10	Q	162	ASP	CA-C-N	-6.49	107.81	121.64
10	Q	162	ASP	C-N-CA	-6.49	107.81	121.64
10	4	162	ASP	CA-C-N	-6.49	107.81	121.64
10	4	162	ASP	C-N-CA	-6.49	107.81	121.64
3	L	281	ARG	CA-C-N	6.40	127.56	120.45
3	L	281	ARG	C-N-CA	6.40	127.56	120.45
3	z	281	ARG	CA-C-N	6.40	127.56	120.45
3	z	281	ARG	C-N-CA	6.40	127.56	120.45
19	h	56	VAL	CA-C-N	6.38	126.50	119.87
19	h	56	VAL	C-N-CA	6.38	126.50	119.87
11	R	289	ALA	CA-C-N	-6.35	113.70	120.94
11	R	289	ALA	C-N-CA	-6.35	113.70	120.94
11	5	289	ALA	CA-C-N	-6.35	113.70	120.94
11	5	289	ALA	C-N-CA	-6.35	113.70	120.94
1	I	344	PRO	CB-CA-C	-6.34	100.94	110.20
1	w	344	PRO	CB-CA-C	-6.34	100.94	110.20
4	M	227	GLY	CA-C-N	-6.32	113.87	120.38
4	M	227	GLY	C-N-CA	-6.32	113.87	120.38
4	0	227	GLY	CA-C-N	-6.32	113.87	120.38
4	0	227	GLY	C-N-CA	-6.32	113.87	120.38
3	L	50	LEU	CB-CA-C	-6.31	100.89	110.92
3	z	50	LEU	CB-CA-C	-6.31	100.89	110.92
9	P	443	THR	CA-C-O	-6.28	114.16	121.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	3	443	THR	CA-C-O	-6.28	114.16	121.07
9	P	168	GLU	N-CA-C	6.27	118.08	108.30
9	3	168	GLU	N-CA-C	6.27	118.08	108.30
8	O	304	VAL	N-CA-C	6.26	112.91	106.21
8	2	304	VAL	N-CA-C	6.26	112.91	106.21
6	K	143	LEU	CA-C-N	-6.25	113.94	120.38
6	K	143	LEU	C-N-CA	-6.25	113.94	120.38
6	y	143	LEU	CA-C-N	-6.25	113.94	120.38
6	y	143	LEU	C-N-CA	-6.25	113.94	120.38
2	H	264	ALA	N-CA-C	-6.24	104.58	111.82
2	v	264	ALA	N-CA-C	-6.24	104.58	111.82
19	h	23	TYR	N-CA-C	6.23	118.07	111.28
3	L	52	SER	CA-C-N	-6.21	113.29	122.23
3	L	52	SER	C-N-CA	-6.21	113.29	122.23
22	k	17	PHE	N-CA-C	6.21	118.05	111.28
3	z	52	SER	CA-C-N	-6.21	113.29	122.23
3	z	52	SER	C-N-CA	-6.21	113.29	122.23
10	Q	203	PRO	CA-C-N	-6.19	112.10	119.84
10	Q	203	PRO	C-N-CA	-6.19	112.10	119.84
10	4	203	PRO	CA-C-N	-6.19	112.10	119.84
10	4	203	PRO	C-N-CA	-6.19	112.10	119.84
21	j	70	GLU	CG-CD-OE2	6.18	132.62	118.40
2	H	334	PRO	CB-CA-C	-6.18	101.18	110.20
2	v	334	PRO	CB-CA-C	-6.18	101.18	110.20
2	H	322	ASN	N-CA-C	-6.17	106.30	113.88
2	v	322	ASN	N-CA-C	-6.17	106.30	113.88
2	v	346	PRO	CA-N-CD	-6.15	103.39	112.00
12	S	209	LYS	N-CA-C	-6.12	104.60	111.28
12	6	209	LYS	N-CA-C	-6.12	104.60	111.28
10	Q	38	ASN	N-CA-C	6.10	123.80	110.80
10	4	38	ASN	N-CA-C	6.10	123.80	110.80
1	I	105	THR	CA-C-N	-6.07	112.43	127.00
1	I	105	THR	C-N-CA	-6.07	112.43	127.00
1	w	105	THR	CA-C-N	-6.07	112.43	127.00
1	w	105	THR	C-N-CA	-6.07	112.43	127.00
26	a	166	ARG	NE-CZ-NH1	6.05	127.55	121.50
17	Y	7	PRO	N-CA-CB	6.04	109.70	103.23
17	AB	7	PRO	N-CA-CB	6.04	109.70	103.23
3	L	53	VAL	N-CA-C	6.04	117.05	108.42
3	z	53	VAL	N-CA-C	6.04	117.05	108.42
16	W	173	VAL	CA-C-N	5.97	126.53	120.38
16	W	173	VAL	C-N-CA	5.97	126.53	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	AA	173	VAL	CA-C-N	5.97	126.53	120.38
16	AA	173	VAL	C-N-CA	5.97	126.53	120.38
5	J	317	PHE	CA-C-N	-5.93	114.27	120.38
5	J	317	PHE	C-N-CA	-5.93	114.27	120.38
5	x	317	PHE	CA-C-N	-5.93	114.27	120.38
5	x	317	PHE	C-N-CA	-5.93	114.27	120.38
10	4	48	GLN	CA-C-N	-5.93	111.72	120.38
10	4	48	GLN	C-N-CA	-5.93	111.72	120.38
2	H	155	PRO	CA-C-O	5.91	131.35	120.60
2	v	155	PRO	CA-C-O	5.91	131.35	120.60
27	b	187	ARG	N-CA-C	5.90	118.56	108.82
19	B	209	ASP	N-CA-C	-5.89	103.32	111.28
8	O	263	ALA	CA-C-N	5.89	134.04	122.61
8	O	263	ALA	C-N-CA	5.89	134.04	122.61
8	2	263	ALA	CA-C-N	5.89	134.04	122.61
8	2	263	ALA	C-N-CA	5.89	134.04	122.61
11	R	31	HIS	N-CA-C	-5.86	98.32	110.80
11	R	192	ARG	CA-C-N	-5.86	114.10	122.77
11	R	192	ARG	C-N-CA	-5.86	114.10	122.77
11	5	31	HIS	N-CA-C	-5.86	98.32	110.80
11	5	192	ARG	CA-C-N	-5.86	114.10	122.77
11	5	192	ARG	C-N-CA	-5.86	114.10	122.77
3	L	46	ASP	CA-C-N	5.84	128.91	120.79
3	L	46	ASP	C-N-CA	5.84	128.91	120.79
3	z	46	ASP	CA-C-N	5.84	128.91	120.79
3	z	46	ASP	C-N-CA	5.84	128.91	120.79
26	o	166	ARG	NE-CZ-NH1	5.83	127.33	121.50
2	H	317	VAL	N-CA-C	5.82	116.38	107.77
2	v	317	VAL	N-CA-C	5.82	116.38	107.77
16	W	58	CYS	CA-CB-SG	-5.82	101.02	114.40
16	AA	58	CYS	CA-CB-SG	-5.82	101.02	114.40
12	S	358	MET	CA-C-N	-5.82	112.92	118.97
12	S	358	MET	C-N-CA	-5.82	112.92	118.97
12	6	358	MET	CA-C-N	-5.82	112.92	118.97
12	6	358	MET	C-N-CA	-5.82	112.92	118.97
2	H	317	VAL	CB-CA-C	-5.81	102.57	110.42
2	v	317	VAL	CB-CA-C	-5.81	102.57	110.42
3	L	275	MET	N-CA-C	5.81	117.87	108.34
3	z	275	MET	N-CA-C	5.81	117.87	108.34
32	g	179	ARG	NE-CZ-NH2	-5.81	113.97	119.20
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

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	M	279	ALA	CA-C-N	-5.79	113.11	127.00
4	M	279	ALA	C-N-CA	-5.79	113.11	127.00
4	0	279	ALA	CA-C-N	-5.79	113.11	127.00
4	0	279	ALA	C-N-CA	-5.79	113.11	127.00
10	4	62	GLN	N-CA-C	-5.77	104.84	112.34
1	I	327	VAL	CB-CA-C	-5.75	102.65	110.42
1	w	327	VAL	CB-CA-C	-5.75	102.65	110.42
1	I	263	GLY	C-N-CD	-5.75	101.42	125.00
1	w	263	GLY	C-N-CD	-5.75	101.42	125.00
2	H	91	GLN	CA-C-N	-5.75	112.66	119.84
2	H	91	GLN	C-N-CA	-5.75	112.66	119.84
15	V	49	VAL	C-N-CD	5.74	133.23	120.60
15	9	49	VAL	C-N-CD	5.74	133.23	120.60
24	G	148	CYS	CA-C-N	5.74	125.41	119.56
24	G	148	CYS	C-N-CA	5.74	125.41	119.56
9	P	79	GLU	N-CA-CB	-5.74	100.75	110.50
9	3	79	GLU	N-CA-CB	-5.74	100.75	110.50
6	K	200	ARG	NE-CZ-NH1	5.73	127.23	121.50
6	y	200	ARG	NE-CZ-NH1	5.73	127.23	121.50
15	V	266	THR	CA-C-N	-5.72	112.69	119.84
15	V	266	THR	C-N-CA	-5.72	112.69	119.84
15	9	266	THR	CA-C-N	-5.72	112.69	119.84
15	9	266	THR	C-N-CA	-5.72	112.69	119.84
8	O	35	HIS	CB-CA-C	-5.71	101.67	110.81
8	2	35	HIS	CB-CA-C	-5.71	101.67	110.81
11	R	34	ASP	N-CA-C	-5.69	98.69	110.80
11	5	34	ASP	N-CA-C	-5.69	98.69	110.80
9	P	406	VAL	CB-CA-C	-5.68	103.21	111.68
9	3	406	VAL	CB-CA-C	-5.68	103.21	111.68
4	M	228	PRO	CA-C-N	-5.67	112.75	119.84
4	M	228	PRO	C-N-CA	-5.67	112.75	119.84
4	0	228	PRO	CA-C-N	-5.67	112.75	119.84
4	0	228	PRO	C-N-CA	-5.67	112.75	119.84
18	Z	358	PHE	CA-C-N	-5.66	116.71	121.58
18	Z	358	PHE	C-N-CA	-5.66	116.71	121.58
18	AC	358	PHE	CA-C-N	-5.66	116.71	121.58
18	AC	358	PHE	C-N-CA	-5.66	116.71	121.58
1	I	318	GLY	N-CA-C	5.64	122.16	112.51
1	w	318	GLY	N-CA-C	5.64	122.16	112.51
16	W	146	GLU	N-CA-C	-5.64	98.80	110.80
16	AA	146	GLU	N-CA-C	-5.64	98.80	110.80
18	Z	192	VAL	N-CA-CB	5.60	114.03	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	AC	192	VAL	N-CA-CB	5.60	114.03	110.50
31	t	53	GLY	CA-C-O	-5.58	115.50	120.75
16	W	23	PRO	N-CA-C	5.58	121.29	113.53
16	AA	23	PRO	N-CA-C	5.58	121.29	113.53
21	j	70	GLU	CG-CD-OE1	-5.58	105.57	118.40
4	M	156	ASP	CA-C-N	-5.57	111.85	121.66
4	M	156	ASP	C-N-CA	-5.57	111.85	121.66
4	0	156	ASP	CA-C-N	-5.57	111.85	121.66
4	0	156	ASP	C-N-CA	-5.57	111.85	121.66
4	M	279	ALA	C-N-CD	5.57	132.85	120.60
4	0	279	ALA	C-N-CD	5.57	132.85	120.60
11	R	96	GLY	N-CA-C	-5.56	100.00	113.18
11	5	96	GLY	N-CA-C	-5.56	100.00	113.18
2	H	155	PRO	CA-C-N	-5.56	112.22	120.94
2	H	155	PRO	C-N-CA	-5.56	112.22	120.94
2	v	155	PRO	CA-C-N	-5.56	112.22	120.94
2	v	155	PRO	C-N-CA	-5.56	112.22	120.94
2	H	207	GLU	CA-C-N	-5.54	114.68	120.38
2	H	207	GLU	C-N-CA	-5.54	114.68	120.38
2	v	207	GLU	CA-C-N	-5.54	114.68	120.38
2	v	207	GLU	C-N-CA	-5.54	114.68	120.38
6	K	197	ASP	CA-C-N	-5.52	114.69	120.38
6	K	197	ASP	C-N-CA	-5.52	114.69	120.38
6	y	197	ASP	CA-C-N	-5.52	114.69	120.38
6	y	197	ASP	C-N-CA	-5.52	114.69	120.38
17	Y	23	PRO	N-CA-CB	5.50	109.12	103.23
17	AB	23	PRO	N-CA-CB	5.50	109.12	103.23
6	K	258	ALA	CA-C-N	-5.50	112.97	119.84
6	K	258	ALA	C-N-CA	-5.50	112.97	119.84
25	X	170	GLN	N-CA-C	5.50	117.27	111.28
6	y	258	ALA	CA-C-N	-5.50	112.97	119.84
6	y	258	ALA	C-N-CA	-5.50	112.97	119.84
2	H	178	GLY	N-CA-C	5.49	117.78	111.36
2	v	178	GLY	N-CA-C	5.49	117.78	111.36
7	N	880	ASN	CA-C-N	5.49	126.70	119.84
7	N	880	ASN	C-N-CA	5.49	126.70	119.84
7	1	880	ASN	CA-C-N	5.49	126.70	119.84
7	1	880	ASN	C-N-CA	5.49	126.70	119.84
23	F	70	ILE	N-CA-C	-5.46	105.05	111.00
4	M	156	ASP	N-CA-C	-5.45	105.24	111.07
4	0	156	ASP	N-CA-C	-5.45	105.24	111.07
1	I	278	ALA	CA-C-N	-5.42	114.12	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	278	ALA	C-N-CA	-5.42	114.12	119.93
1	w	278	ALA	CA-C-N	-5.42	114.12	119.93
1	w	278	ALA	C-N-CA	-5.42	114.12	119.93
24	m	148	CYS	CA-C-N	5.42	125.09	119.56
24	m	148	CYS	C-N-CA	5.42	125.09	119.56
23	l	70	ILE	N-CA-C	-5.40	105.12	111.00
8	O	263	ALA	O-C-N	5.39	129.76	122.59
8	2	263	ALA	O-C-N	5.39	129.76	122.59
20	C	79	GLY	CA-C-N	5.39	124.85	119.24
20	C	79	GLY	C-N-CA	5.39	124.85	119.24
29	r	133	GLY	N-CA-C	5.38	117.53	112.04
2	H	336	ARG	CG-CD-NE	5.38	123.83	112.00
2	v	336	ARG	CG-CD-NE	5.38	123.83	112.00
14	U	237	LEU	CA-C-N	-5.37	113.63	120.23
14	U	237	LEU	C-N-CA	-5.37	113.63	120.23
14	8	237	LEU	CA-C-N	-5.37	113.63	120.23
14	8	237	LEU	C-N-CA	-5.37	113.63	120.23
2	H	261	PHE	CB-CA-C	5.35	120.95	110.67
2	v	261	PHE	CB-CA-C	5.35	120.95	110.67
8	O	332	HIS	CB-CA-C	-5.33	100.95	109.75
8	2	332	HIS	CB-CA-C	-5.33	100.95	109.75
3	L	166	PRO	CA-C-N	-5.33	113.18	119.84
3	L	166	PRO	C-N-CA	-5.33	113.18	119.84
3	z	166	PRO	CA-C-N	-5.33	113.18	119.84
3	z	166	PRO	C-N-CA	-5.33	113.18	119.84
4	M	320	PHE	N-CA-CB	5.32	117.92	109.51
4	0	320	PHE	N-CA-CB	5.32	117.92	109.51
4	M	219	PRO	CA-C-N	-5.31	114.48	119.90
4	M	219	PRO	C-N-CA	-5.31	114.48	119.90
31	f	53	GLY	CA-C-O	-5.31	115.76	120.75
19	h	72	ILE	N-CA-C	-5.31	106.51	111.45
4	0	219	PRO	CA-C-N	-5.31	114.48	119.90
4	0	219	PRO	C-N-CA	-5.31	114.48	119.90
23	l	157	ASP	CA-C-N	5.31	126.48	119.84
23	l	157	ASP	C-N-CA	5.31	126.48	119.84
15	V	265	MET	N-CA-C	5.30	115.55	108.23
15	9	265	MET	N-CA-C	5.30	115.55	108.23
8	O	286	ALA	CA-C-O	5.30	122.79	119.77
8	2	286	ALA	CA-C-O	5.30	122.79	119.77
9	P	420	ASP	CA-C-N	5.29	126.45	119.84
9	P	420	ASP	C-N-CA	5.29	126.45	119.84
9	3	420	ASP	CA-C-N	5.29	126.45	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	3	420	ASP	C-N-CA	5.29	126.45	119.84
13	T	173	CYS	CA-CB-SG	-5.29	102.24	114.40
13	7	173	CYS	CA-CB-SG	-5.29	102.24	114.40
10	Q	202	CYS	C-N-CD	5.28	132.22	120.60
10	4	202	CYS	C-N-CD	5.28	132.22	120.60
19	B	23	TYR	N-CA-C	5.27	117.78	111.71
19	B	72	ILE	N-CA-C	-5.27	106.55	111.45
3	L	318	GLY	CA-C-N	-5.26	113.26	119.84
3	L	318	GLY	C-N-CA	-5.26	113.26	119.84
3	L	77	PRO	N-CA-C	5.26	118.58	111.22
3	z	77	PRO	N-CA-C	5.26	118.58	111.22
3	L	148	VAL	N-CA-C	-5.25	105.42	110.72
3	z	148	VAL	N-CA-C	-5.25	105.42	110.72
25	X	161	TRP	N-CA-C	-5.25	107.01	113.41
2	H	228	ALA	N-CA-C	-5.24	105.48	111.14
2	v	228	ALA	N-CA-C	-5.24	105.48	111.14
6	K	416	PHE	N-CA-C	5.22	117.05	111.36
6	y	416	PHE	N-CA-C	5.22	117.05	111.36
27	b	187	ARG	CA-C-N	-5.20	114.52	127.00
27	b	187	ARG	C-N-CA	-5.20	114.52	127.00
7	N	427	LEU	CA-C-N	-5.19	113.36	119.84
7	N	427	LEU	C-N-CA	-5.19	113.36	119.84
7	1	427	LEU	CA-C-N	-5.19	113.36	119.84
7	1	427	LEU	C-N-CA	-5.19	113.36	119.84
18	Z	201	GLU	N-CA-C	5.18	117.80	108.48
18	AC	201	GLU	N-CA-C	5.18	117.80	108.48
28	q	27	ARG	NE-CZ-NH2	-5.14	114.57	119.20
26	o	166	ARG	CD-NE-CZ	5.14	131.59	124.40
2	H	377	CYS	CA-C-N	-5.13	113.42	119.84
2	H	377	CYS	C-N-CA	-5.13	113.42	119.84
2	v	377	CYS	CA-C-N	-5.13	113.42	119.84
2	v	377	CYS	C-N-CA	-5.13	113.42	119.84
1	I	217	LYS	CA-C-N	-5.13	115.10	120.38
1	I	217	LYS	C-N-CA	-5.13	115.10	120.38
1	w	217	LYS	CA-C-N	-5.13	115.10	120.38
1	w	217	LYS	C-N-CA	-5.13	115.10	120.38
8	O	15	GLY	CA-C-N	-5.12	113.44	119.84
8	O	15	GLY	C-N-CA	-5.12	113.44	119.84
8	2	15	GLY	CA-C-N	-5.12	113.44	119.84
8	2	15	GLY	C-N-CA	-5.12	113.44	119.84
7	N	882	ALA	N-CA-C	5.12	115.57	108.00
7	1	882	ALA	N-CA-C	5.12	115.57	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	h	111	VAL	CB-CA-C	-5.11	105.35	112.04
29	d	133	GLY	N-CA-C	5.11	117.25	112.04
27	b	170	GLY	N-CA-C	5.10	117.73	110.74
7	N	148	LYS	N-CA-C	-5.07	105.75	111.28
7	1	148	LYS	N-CA-C	-5.07	105.75	111.28
2	H	346	PRO	CA-N-CD	-5.06	104.92	112.00
6	K	335	LEU	CA-C-N	5.05	126.15	119.84
6	K	335	LEU	C-N-CA	5.05	126.15	119.84
6	y	335	LEU	CA-C-N	5.05	126.15	119.84
6	y	335	LEU	C-N-CA	5.05	126.15	119.84
23	F	157	ASP	CA-C-N	5.04	126.14	119.84
23	F	157	ASP	C-N-CA	5.04	126.14	119.84
11	R	31	HIS	N-CA-CB	5.04	119.01	110.49
11	5	31	HIS	N-CA-CB	5.04	119.01	110.49
3	L	175	PRO	CA-C-N	-5.04	113.55	119.84
3	L	175	PRO	C-N-CA	-5.04	113.55	119.84
3	z	175	PRO	CA-C-N	-5.04	113.55	119.84
3	z	175	PRO	C-N-CA	-5.04	113.55	119.84
28	c	35	VAL	CB-CA-C	-5.03	105.76	111.55
25	n	161	TRP	N-CA-C	-5.03	107.28	113.41
21	D	44	LEU	N-CA-C	5.02	117.01	109.23
9	P	408	ARG	N-CA-C	5.02	116.60	111.03
9	3	408	ARG	N-CA-C	5.02	116.60	111.03
7	N	69	TYR	N-CA-C	-5.01	105.70	111.07
7	1	69	TYR	N-CA-C	-5.01	105.70	111.07
12	S	220	PHE	N-CA-C	5.01	117.91	108.65
12	6	220	PHE	N-CA-C	5.01	117.91	108.65
18	AC	664	GLU	N-CA-C	5.01	121.46	110.80

There are no chirality outliers.

All (120) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
4	0	279	ALA	Peptide,Mainchain
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	Peptide,Mainchain
10	4	162	ASP	Peptide
10	4	202	CYS	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
10	4	32	LYS	Peptide,Mainchain
10	4	37	GLU	Peptide,Mainchain
11	5	14	ASN	Peptide,Mainchain
11	5	30	GLU	Peptide,Mainchain
11	5	32	ARG	Peptide,Mainchain
11	5	33	GLY	Peptide
11	5	95	LEU	Peptide,Mainchain
13	7	318	PHE	Peptide,Mainchain
14	8	239	ASP	Peptide
15	9	112	TYR	Peptide
15	9	49	VAL	Peptide,Mainchain
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	Peptide,Mainchain
17	AB	16	ASP	Peptide
17	AB	43	TRP	Peptide
18	AC	147	SER	Peptide
18	AC	200	ALA	Peptide,Mainchain
18	AC	260	SER	Peptide,Mainchain
18	AC	355	ASN	Peptide
18	AC	837	LEU	Peptide
2	H	336	ARG	Sidechain
1	I	105	THR	Peptide
1	I	137	SER	Peptide
1	I	299	SER	Peptide,Mainchain
5	J	242	ALA	Peptide
6	K	149	SER	Peptide,Mainchain
3	L	226	GLN	Peptide,Mainchain
3	L	244	SER	Peptide
4	M	279	ALA	Peptide,Mainchain
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	Peptide,Mainchain
10	Q	162	ASP	Peptide
10	Q	202	CYS	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
10	Q	32	LYS	Peptide,Mainchain
10	Q	37	GLU	Peptide,Mainchain
11	R	14	ASN	Peptide,Mainchain
11	R	30	GLU	Peptide,Mainchain
11	R	32	ARG	Peptide,Mainchain
11	R	33	GLY	Peptide
11	R	95	LEU	Peptide,Mainchain
13	T	318	PHE	Peptide,Mainchain
14	U	239	ASP	Peptide
15	V	112	TYR	Peptide
15	V	49	VAL	Peptide,Mainchain
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	Peptide,Mainchain
17	Y	16	ASP	Peptide
17	Y	43	TRP	Peptide
18	Z	147	SER	Peptide
18	Z	200	ALA	Peptide,Mainchain
18	Z	260	SER	Peptide,Mainchain
18	Z	355	ASN	Peptide
18	Z	837	LEU	Peptide
27	b	187	ARG	Peptide,Mainchain
2	v	336	ARG	Sidechain
1	w	105	THR	Peptide
1	w	137	SER	Peptide
1	w	299	SER	Peptide,Mainchain
5	x	242	ALA	Peptide
6	y	149	SER	Peptide,Mainchain
3	z	226	GLN	Peptide,Mainchain
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	913	0
1	w	2720	0	2686	909	0
2	H	2893	0	2843	750	0
2	v	2893	0	2843	735	0
3	L	2860	0	2826	818	0
3	z	2860	0	2826	829	0
4	0	2858	0	2853	744	0
4	M	2858	0	2853	729	0
5	J	2820	0	2927	776	0
5	x	2820	0	2927	781	0
6	K	3039	0	3076	972	0
6	y	3039	0	3076	974	0
7	1	5449	0	4576	670	0
7	N	5449	0	4576	671	0
8	2	2375	0	1869	225	0
8	O	2369	0	1862	215	0
9	3	2831	0	2386	367	0
9	P	2832	0	2388	362	0
10	4	2956	0	2669	586	0
10	Q	2956	0	2669	575	0
11	5	2770	0	2480	497	0
11	R	2767	0	2473	502	0
12	6	2732	0	2215	289	0
12	S	2723	0	2202	288	0
13	7	1699	0	1364	228	0
13	T	1699	0	1364	234	0
14	8	2131	0	2039	414	0
14	U	2131	0	2039	398	0
15	9	2009	0	1973	303	0
15	V	2011	0	1980	302	0
16	AA	1300	0	1134	206	0
16	W	1300	0	1134	218	0
17	AB	316	0	160	24	0
17	Y	316	0	160	25	0
18	AC	3608	0	1688	202	0
18	Z	3608	0	1688	212	0
19	B	1845	0	1805	64	0
19	h	1853	0	1827	52	0
20	C	1737	0	1673	77	0
20	i	1744	0	1693	71	0
21	D	1916	0	1857	38	0
21	j	1913	0	1848	30	0
22	E	1724	0	1525	47	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	k	1691	0	1468	40	0
23	F	1766	0	1714	49	0
23	l	1726	0	1722	68	0
24	G	1850	0	1822	57	0
24	m	1850	0	1822	63	0
25	X	1873	0	1832	49	0
25	n	1873	0	1832	31	0
26	a	1509	0	1473	23	0
26	o	1509	0	1473	24	0
27	b	1643	0	1644	56	0
27	p	1643	0	1644	51	0
28	c	1585	0	1598	36	0
28	q	1585	0	1598	38	0
29	d	1570	0	1547	42	0
29	r	1570	0	1547	40	0
30	e	1548	0	1499	36	0
30	s	1551	0	1508	30	0
31	f	1644	0	1627	32	0
31	t	1644	0	1627	32	0
32	g	1672	0	1630	38	0
32	u	1678	0	1640	37	0
33	0	27	0	12	11	0
33	H	27	0	12	6	0
33	I	27	0	12	23	0
33	J	27	0	12	21	0
33	K	27	0	12	23	0
33	L	27	0	12	15	0
33	M	27	0	12	12	0
33	v	27	0	12	6	0
33	w	27	0	12	22	0
33	x	27	0	12	19	0
33	y	27	0	12	22	0
33	z	27	0	12	16	0
All	All	142753	0	130149	17440	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 64.

All (17440) 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)
6:y:207:PRO:HG2	6:y:335:LEU:CD2	1.23	1.66
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
1:w:230:THR:CG2	1:w:353:PHE:HB3	1.30	1.58
6:y:100:THR:HG21	6:y:112:TYR:CZ	1.35	1.58
5:J:137:LEU:CD1	5:J:220:VAL:HG13	1.12	1.58
5:J:151:ILE:HD11	5:J:198:LEU:CD2	1.11	1.58
2:v:425:ALA:CB	1:w:339:PRO:HB3	1.28	1.58
1:w:424:GLU:HA	1:w:428:TYR:CD2	1.38	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
2:H:348:LEU:HD12	23:l:175:GLU:CD	1.25	1.55
6:y:115:ILE:HD11	6:y:121:ARG:CZ	1.33	1.55
3:L:338:PHE:CZ	3:L:375:ALA:HB2	1.37	1.55
3:z:338:PHE:CZ	3:z: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
1:I:424:GLU:HA	1:I:428:TYR:CD2	1.38	1.54
14:8:23:PHE:CE2	14:8:126:VAL:HG11	1.01	1.54
5:x:151:ILE:HD11	5:x:198:LEU:CD2	1.11	1.54
3:z:238:ILE:HD11	3:z:257:LEU:CA	1.17	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
5:x:137:LEU:CD1	5:x:220:VAL:HG13	1.12	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
6:y:207:PRO:CB	6:y:335:LEU:HD21	1.40	1.51
3:L:338:PHE:HD1	3:L:378:LYS:NZ	1.01	1.50
6:y:115:ILE:CD1	6:y:121:ARG:NH1	1.74	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
12:S:228:ARG:HH21	12:S:257:ASN:CG	1.16	1.50
6:y:207:PRO:CG	6:y:335:LEU:HD21	1.04	1.49
25:X:170:GLN:CD	3:z:372:ARG:HD2	1.12	1.48
3:z:338:PHE:HD1	3:z:378:LYS:NZ	1.01	1.47
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:y:293:LEU:HD22	6:y:326:ARG:NH1	1.16	1.46
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
5:x:86:LEU:HD23	5:x:96:VAL:CG2	1.44	1.46
6:y:100:THR:HG21	6:y:112:TYR:CE1	1.50	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
12:6:228:ARG:HH21	12:6:257: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
2:H:99:THR:CG2	2:H:142:VAL:HG21	1.47	1.44
11:5:185:GLY:C	11:5:201:PHE:CZ	1.94	1.44
14:8:23:PHE:CE2	14:8:126:VAL:CG1	1.98	1.44
14:U:23:PHE:CE2	14:U:126:VAL:CG1	1.98	1.44
18:AC:671:ALA:O	18:AC:675:PHE:CB	1.64	1.44
11:5:186:LEU:N	11:5:201:PHE:HZ	1.15	1.44
11:R:185:GLY:C	11:R:201:PHE:CZ	1.94	1.44
5:x:137:LEU:CD1	5:x:224:ILE:HD11	1.47	1.44
6:K:293:LEU:HD22	6:K:326:ARG:NH1	1.16	1.43
1:w:234:LEU:HD11	33:w:501:ADP:N3	1.31	1.43
7:1:616:ARG:CZ	7:1:650:TYR:CD2	2.00	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
14:8:224:HIS:O	14:8:228:TYR:CD1	1.70	1.43
14:U:224:HIS:O	14:U:228:TYR:CD1	1.70	1.43
6:y:133:HIS:ND1	6:y:136:SER:HB2	1.13	1.43
12:6:448:GLU:O	12:6:461:LYS:CG	1.67	1.43
5:J:137:LEU:CD1	5:J:224:ILE:HD11	1.47	1.43
1:w:118:ASP:OD1	1:w:120:HIS:CD2	1.71	1.43
5:x:137:LEU:CD1	5:x:220:VAL:CG1	1.97	1.43
4:0:212:PHE:CD1	4:0:217:ILE:HD11	1.49	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
4:M:399:VAL:CA	4:M:427:VAL:HG21	1.48	1.42
5:J:189:TYR:CZ	5:J:316:GLU:HG2	1.53	1.42
11:R:186:LEU:N	11:R:201:PHE:CZ	1.88	1.42
6:y:115:ILE:HD11	6:y:121:ARG:NH1	1.21	1.42
7:N:616:ARG:CZ	7:N:650:TYR:CD2	2.00	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:189:TYR:CZ	5:x:316:GLU:HG2	1.53	1.42
2:v:99:THR:CG2	2:v:142:VAL:HG21	1.47	1.41
5:x:151:ILE:CD1	5:x:198:LEU:CD2	1.94	1.41
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
3:L:238:ILE:CD1	3:L:257:LEU:HA	1.50	1.40
1:w:287:ILE:CD1	1:w:331:THR:CG2	2.00	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
5:x:133:PRO:HG2	5:x:237:MET:CE	1.50	1.40
3:z:145:LEU:HG	3:z:149:ILE:CD1	1.48	1.40
3:z:238:ILE:CD1	3:z:257:LEU:HA	1.50	1.40
11:R:183:TYR:CE1	11:R:213:LEU:HD11	1.55	1.39
1:I:234:LEU:HD11	33:I:501:ADP:N3	1.31	1.39
2:H:111:TYR:CE1	2:H:125:LEU:HD23	1.53	1.39
5:J:137:LEU:CD1	5:J:220:VAL:CG1	1.97	1.39
5:x:151:ILE:CD1	5:x:198:LEU:HD22	1.49	1.39
14:8:79:TYR:CE2	14:8:91:ILE:CG1	2.05	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
2:v:190:VAL:CG2	2:v:212:VAL:HG21	1.53	1.39
11:R:186:LEU:N	11:R:201:PHE:HZ	1.15	1.38
18:Z:659:LEU:O	18:Z:662:MET:CB	1.68	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:y:345:PHE:CD2	6:y:360:LEU:HG	1.58	1.38
3:z:69:PHE:CE2	3:z:83:CYS:SG	2.16	1.37
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
1:w:287:ILE:CD1	1:w:331:THR:HG23	1.53	1.37
14:U:215:VAL:HA	14:U:220:LEU:CB	1.54	1.37
3:z:198:VAL:CG1	3:z:203:ILE:HD11	1.55	1.37
2:H:99:THR:HG21	2:H:142:VAL:CG2	1.54	1.36
14:8:94:TRP:CE3	14:8:121:LEU:HD13	1.59	1.36
3:L:69:PHE:CE2	3:L:83:CYS:SG	2.16	1.36
3:L:69:PHE:HE2	3:L:83:CYS:SG	1.47	1.36
3:L:198:VAL:CG1	3:L:203:ILE:HD11	1.55	1.36
6:K:345:PHE:CD2	6:K:360:LEU:HG	1.58	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:338:PHE:CD1	3:z:378:LYS:NZ	1.87	1.36
5:J:235:PHE:CE1	5:J:276:LEU:HD22	1.60	1.36
1:w:223:ILE:CG1	1:w:347:ILE:HG21	1.56	1.36
1:w:230:THR:CG2	1:w:353:PHE:CB	2.04	1.36
2:v:284:ARG:HA	2:v:296:GLN:OE1	1.24	1.36
3:z:265:ASP:OD2	3:z:291:ARG:NH2	1.57	1.36
6:K:93:LEU:CD1	6:K:94:GLU:HG3	1.54	1.35
11:5:344:HIS:CE1	11:5:359:PRO:HG3	1.56	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
11:5:186:LEU:N	11:5:201:PHE:CZ	1.88	1.35
2:v:99:THR:HG21	2:v:142:VAL:CG2	1.54	1.35
5:x:235:PHE:CE1	5:x:276:LEU:HD22	1.60	1.35
6:y:348:ILE:HG22	6:y:379:CYS:SG	1.64	1.35
3:z:69:PHE:HE2	3:z:83:CYS:SG	1.47	1.35
3:z:126:ASP:OD2	3:z:197:LYS:CE	1.71	1.35
14:U:72:HIS:HE1	14:U:111:LEU:CD1	1.38	1.35
5:x:279:GLN:O	5:x:284:GLU:HB3	1.18	1.35
6:y:100:THR:CG2	6:y:112:TYR:CE1	2.08	1.35
2:H:190:VAL:CG2	2:H:212:VAL:HG21	1.53	1.34
6:y:116:LEU:O	6:y:119:ILE:HD13	1.26	1.34
5:x:151:ILE:CG1	5:x:198:LEU:HD22	1.55	1.34
1:I:223:ILE:CG1	1:I:347:ILE:HG21	1.56	1.34
6:y:93:LEU:CD1	6:y:94:GLU:HG3	1.54	1.34
5:J:151:ILE:CG1	5:J:198:LEU:HD22	1.55	1.34
5:x:137:LEU:CG	5:x:224:ILE:HD11	1.58	1.34
11:5:229:ILE:HG13	11:5:295:TYR:CE1	1.63	1.34
5:J:189:TYR:OH	5:J:316:GLU:HG2	1.26	1.34
14:8:79:TYR:CE2	14:8:91:ILE:HG12	1.59	1.34
2:v:111:TYR:CZ	2:v:125:LEU:HD22	1.62	1.33
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:226:GLN:HB3	3:L:273:VAL:CG2	1.59	1.33
3:L:238:ILE:CD1	3:L:257:LEU:CA	2.05	1.33
2:H:255:ARG:O	2:H:259:GLU:HG2	1.27	1.32
12:S:476:PHE:O	12:S:480:ILE:CD1	1.77	1.32
12:S:165:ALA:CB	12:S:203:LEU:HD11	1.59	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:86:LEU:CD2	5:J:96:VAL:HG22	1.59	1.32
10:Q:396:THR:OG1	15:V:242:GLU:HG2	1.16	1.32
18:Z:317:LEU:O	18:Z:321:MET:CB	1.78	1.32
3:L:148:VAL:O	3:L:152:PRO:HG3	1.30	1.31
14:U:94:TRP:CZ3	14:U:121:LEU:HD13	1.65	1.31
2:v:88:GLN:O	2:v:92:PRO:HD3	1.30	1.31
4:0:295:ARG:CD	4:0:339:ASP:OD2	1.77	1.31
12:6:165:ALA:CB	12:6:203:LEU:HD11	1.59	1.31
5:x:86:LEU:CD2	5:x:96:VAL:HG22	1.59	1.31
3:z:148:VAL:O	3:z:152:PRO:HG3	1.30	1.31
12:6:228:ARG:NH2	12:6:257:ASN:CG	1.88	1.31
4:M:295:ARG:CD	4:M:339:ASP:OD2	1.77	1.31
2:v:425:ALA:CB	1:w:339:PRO:CB	2.09	1.31
5:x:189:TYR:CD1	5:x:298:ILE:HD11	1.65	1.31
1:I:387:LYS:CB	1:I:390:LEU:HD23	1.60	1.31
3:z:322:LYS:NZ	3:z:328:TYR:OH	1.62	1.31
13:T:345:GLN:O	13:T:349:ILE:HG13	1.15	1.31
18:AC:317:LEU:O	18:AC:321:MET:CB	1.78	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
5:J:30:GLU:O	5:J:34:ILE:CG1	1.80	1.30
13:T:345:GLN:O	13:T:349:ILE:CG1	1.79	1.30
1:w:287:ILE:HD11	1:w:331:THR:OG1	1.16	1.30
6:y:90:GLY:O	6:y:130:VAL:HG22	1.28	1.30
3:z:226:GLN:HB3	3:z:273:VAL:CG2	1.59	1.30
5:J:279:GLN:O	5:J:284:GLU:HB3	1.18	1.30
1:w:230:THR:CG2	1:w:353:PHE:O	1.77	1.30
5:x:86:LEU:CD2	5:x:96:VAL:CG2	2.10	1.30
12:6:476:PHE:O	12:6:480:ILE:CD1	1.77	1.30
2:H:111:TYR:CZ	2:H:125:LEU:HD22	1.65	1.30
4:0:212:PHE:HD1	4:0:217:ILE:CD1	1.43	1.30
3:L:322:LYS:NZ	3:L:328:TYR:OH	1.62	1.30
1:w:387:LYS:CB	1:w:390:LEU:HD23	1.60	1.30
16:W:54:LEU:CB	16:W:85:THR:CB	2.10	1.30
1:I:287:ILE:HD11	1:I:331:THR:CB	1.62	1.29
3:L:327:ASP:CG	3:L:330:ALA:HB3	1.56	1.29
6:K:184:PRO:HA	6:K:191:TYR:CE2	1.66	1.29
6:y:226:ALA:CB	6:y:257:ASN:HD22	1.44	1.29
14:8:94:TRP:CZ3	14:8:121:LEU:HD13	1.65	1.29
11:R:256:VAL:O	11:R:259:TYR:CD1	1.85	1.29
21:j:70:GLU:OE1	21:j:70:GLU:CD	1.74	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:137:LEU:HD13	5:x:224:ILE:CD1	1.62	1.29
4:0:294:LYS:HA	4:0:339:ASP:OD1	1.15	1.29
9:3:55:ARG:O	9:3:56:THR:HG23	1.12	1.29
5:J:137:LEU:CG	5:J:224:ILE:HD11	1.58	1.29
10:4:105:GLN:O	10:4:109:LEU:HG	1.18	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
1:w:118:ASP:OD1	1:w:120:HIS:HD2	0.95	1.29
13:7:120:LYS:O	13:7:124:LEU:CB	1.81	1.29
1:I:339:PRO:CB	2:H:425:ALA:CB	2.09	1.28
4:M:80:ILE:O	4:M:84:LYS:HB2	1.15	1.28
6:K:116:LEU:O	6:K:119:ILE:HD13	1.26	1.28
5:x:184:LYS:NZ	5:x:281:ASP:OD1	1.66	1.28
11:5:256:VAL:O	11:5:259:TYR:CD1	1.85	1.28
16:AA:55:ALA:HA	16:AA:83:LYS:O	1.15	1.28
5:J:320:PRO:O	5:J:325:ARG:NH1	1.65	1.28
12:S:228:ARG:NH2	12:S:257:ASN:CG	1.88	1.28
13:7:345:GLN:O	13:7:349:ILE:CG1	1.79	1.28
16:AA:54:LEU:CB	16:AA:85:THR:CB	2.10	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
1:w:230:THR:HG21	1:w:353:PHE:O	1.31	1.28
3:z:126:ASP:OD2	3:z:197:LYS:CD	1.80	1.28
5:J:86:LEU:CD2	5:J:96:VAL:CG2	2.10	1.28
2:v:111:TYR:CE1	2:v:125:LEU:CD2	2.15	1.28
1:w:287:ILE:HD11	1:w:331:THR:CB	1.62	1.28
6:y:170:MET:O	6:y:174:LYS:HB2	1.31	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
14:8:224:HIS:O	14:8:228:TYR:HD1	0.96	1.28
6:K:403:TYR:O	6:K:407:ILE:HD13	1.33	1.27
9:P:243:ILE:CG1	9:P:247:TYR:HE2	1.47	1.27
5:x:189:TYR:CE2	5:x:316:GLU:CG	2.17	1.27
3:z:327:ASP:CG	3:z:330:ALA:HB3	1.56	1.27
4:0:80:ILE:O	4:0:84:LYS:HB2	1.15	1.27
4:0:249:LEU:HD23	4:0:283:ILE:CG1	1.63	1.27
9:3:209:ILE:HG21	9:3:226:TYR:CZ	1.68	1.27
6:K:90:GLY:O	6:K:130:VAL:HG22	1.28	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:23:PHE:CD2	14:U:126:VAL:HG11	1.70	1.27
5:x:30:GLU:O	5:x:34:ILE:CG1	1.80	1.27
6:y:184:PRO:HA	6:y:191:TYR:CE2	1.66	1.27
2:H:299:MET:HE1	2:H:328:ASP:OD2	1.09	1.27
3:z:338:PHE:HZ	3:z:375:ALA:CB	1.48	1.27
3:L:150:GLU:O	3:L:153:LEU:HG	1.16	1.27
5:J:189:TYR:CE2	5:J:316:GLU:CG	2.17	1.27
6:K:133:HIS:CE1	6:K:136:SER:HB2	1.69	1.27
6:K:170:MET:O	6:K:174:LYS:HB2	1.31	1.27
2:v:111:TYR:CE1	2:v:125:LEU:HD23	1.70	1.27
12:6:299:GLN:O	12:6:300:LEU:HD23	1.11	1.27
9:P:209:ILE:HG21	9:P:226:TYR:CZ	1.68	1.27
5:x:189:TYR:OH	5:x:316:GLU:HG2	1.26	1.27
1:I:343:ARG:HH21	1:I:346:ARG:NH2	1.33	1.26
2:H:88:GLN:O	2:H:92:PRO:HD3	1.24	1.26
2:v:209:PRO:HD3	4:0:405:MET:SD	1.75	1.26
2:v:355:PHE:CE1	2:v:385:ILE:CG2	2.16	1.26
3:z:150:GLU:O	3:z:153:LEU:HG	1.16	1.26
4:M:249:LEU:HD23	4:M:283:ILE:CG1	1.63	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:P:55:ARG:O	9:P:56:THR:HG23	1.12	1.26
5:x:320:PRO:O	5:x:325:ARG:NH1	1.65	1.26
13:7:345:GLN:O	13:7:349:ILE:HG13	1.15	1.26
2:v:280:ILE:O	2:v:295:VAL:HG12	1.33	1.26
1:w:313:LEU:CD1	1:w:340:ALA:HB1	1.66	1.26
6:y:207:PRO:CG	6:y:335:LEU:CD2	1.90	1.26
6:y:344:ILE:O	6:y:348:ILE:HG12	1.33	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
13:T:120:LYS:O	13:T:124:LEU:CB	1.81	1.26
2:v:245:LEU:CD1	2:v:280:ILE:HD13	1.65	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:126:ASP:OD2	3:L:197:LYS:NZ	1.67	1.25
5:J:118:ASN:ND2	5:J:119:ASP:H	1.34	1.25
1:w:230:THR:HG21	1:w:353:PHE:CB	1.64	1.25
5:x:118:ASN:HD22	5:x:119:ASP:N	1.32	1.25
6:y:133:HIS:CE1	6:y:136:SER:HB2	1.69	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
1:w:180:PRO:HG3	1:w:240:ALA:C	1.61	1.25
3:z:195:PHE:CD1	3:z:229:ILE:HB	1.72	1.25
3:z:338:PHE:CZ	3:z:375:ALA:CB	2.19	1.25
6:y:184:PRO:CG	6:y:191:TYR:OH	1.84	1.25
3:z:238:ILE:CD1	3:z:257:LEU:CA	2.05	1.25
3:z:383:LYS:HG2	3:z:386:TYR:OH	1.34	1.25
2:H:299:MET:HE1	2:H:328:ASP:CG	1.60	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
3:L:84:ARG:O	3:L:85:ARG:HG2	1.33	1.25
5:x:160:GLU:OE1	5:x:313:ARG:NE	1.68	1.25
6:y:394:VAL:HG13	6:y:398:ASP:CB	1.67	1.25
3:z:126:ASP:OD2	3:z:197:LYS:NZ	1.67	1.25
14:8:23:PHE:CD2	14:8:126:VAL:HG11	1.70	1.25
10:Q:264:PRO:CB	10:Q:295:LYS:HE3	1.65	1.24
5:x:354:ALA:HA	5:x:358:GLU:OE1	1.07	1.24
14:8:70:LEU:CD2	14:8:111:LEU:CD2	2.16	1.24
1:I:313:LEU:CD1	1:I:340:ALA:HB1	1.66	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
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
25:X:170:GLN:CD	3:z:372:ARG:CD	2.09	1.24
2:v:161:VAL:CG1	2:v:263:MET:SD	2.25	1.24
1:w:343:ARG:HH21	1:w:346:ARG:NH2	1.33	1.24
3:z:84:ARG:O	3:z:85:ARG:HG2	1.33	1.24
10:4:183:LEU:HD11	10:4:220:ALA:CB	1.67	1.24
1:I:103:ARG:HG2	1:I:160:ILE:CG2	1.67	1.24
1:I:230:THR:HG21	1:I:353:PHE:CB	1.64	1.24
2:H:245:LEU:CD1	2:H:280:ILE:HD13	1.65	1.24
3:L:338:PHE:HZ	3:L:375:ALA:CB	1.48	1.24
5:J:143:VAL:HG11	5:J:213:ARG:CD	1.67	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:372:ARG:NH1	6:y:179:GLU:OE2	1.70	1.24
6:y:292:LEU:O	6:y:296:MET:HB2	1.34	1.24
3:z:138:LEU:O	3:z:140:GLU:N	1.70	1.24
2:H:299:MET:HE2	2:H:303:ILE:CD1	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
1:w:230:THR:HG21	1:w:353:PHE:C	1.63	1.24
6:y:403:TYR:O	6:y:407:ILE:HD13	1.33	1.24
10:4:163:LYS:HD2	10:4:200:ILE:CG2	1.66	1.24
6:K:344:ILE:O	6:K:348:ILE:HG12	1.30	1.24
1:w:369:THR:HB	1:w:374:LEU:CD1	1.66	1.24
1:w:398:ILE:HG22	1:w:419:PHE:CD1	1.72	1.24
5:x:118:ASN:ND2	5:x:119:ASP:H	1.34	1.24
10:4:264:PRO:HB3	10:4:295:LYS:CE	1.68	1.24
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
5:x:150:MET:O	5:x:151:ILE:HG13	1.37	1.23
3:z:326:ILE:HG21	3:z:328:TYR:CE2	1.72	1.23
14:8:72:HIS:CE1	14:8:111:LEU:HD11	1.72	1.23
1:I:122:ILE:HD11	1:I:130:GLU:CB	1.68	1.23
2:H:299:MET:CE	2:H:303:ILE:HD11	1.68	1.23
2:v:255:ARG:O	2:v:259:GLU:HG2	1.27	1.23
4:0:374:ASN:O	4:0:414:GLU:CB	1.85	1.23
1:I:180:PRO:HG3	1:I:240:ALA:C	1.61	1.23
1:I:287:ILE:HD11	1:I:331:THR:OG1	1.16	1.23
4:M:231:THR:O	33:M:501:ADP:N7	1.70	1.23
4:M:374:ASN:O	4:M:414:GLU:CB	1.85	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
6:K:394:VAL:HG13	6:K:398:ASP:CB	1.67	1.23
9:P:107:GLN:O	9:P:141:GLU:OE2	1.57	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
12:6:472:PRO:O	12:6:476:PHE:CD2	1.91	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
2:v:299:MET:HE1	2:v:328:ASP:OD2	1.09	1.23
2:v:299:MET:HE1	2:v:328:ASP:CG	1.60	1.23
8:2:35:HIS:HB2	16:AA:14:GLU:CG	1.68	1.23

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:295:ARG:HD2	4:M:339:ASP:OD2	1.05	1.23
5:J:160:GLU:HB3	5:J:315:ILE:CD1	1.69	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
2:v:299:MET:HE2	2:v:303:ILE:CD1	1.66	1.23
5:x:160:GLU:HB3	5:x:315:ILE:CD1	1.69	1.23
9:3:46:THR:O	9:3:50:LEU:CD2	1.86	1.23
3:L:138:LEU:O	3:L:140:GLU:N	1.70	1.22
3:L:338:PHE:CZ	3:L:375:ALA:CB	2.19	1.22
5:J:189:TYR:CZ	5:J:316:GLU:CG	2.22	1.22
8:O:35:HIS:HB2	16:W:14:GLU:CG	1.68	1.22
2:v:299:MET:CE	2:v:303:ILE:HD11	1.68	1.22
6:y:394:VAL:CG1	6:y:398:ASP:HB2	1.69	1.22
14:8:79:TYR:CD2	14:8:91:ILE:HG13	1.74	1.22
2:H:280:ILE:O	2:H:295:VAL:CG1	1.87	1.22
5:x:143:VAL:HG11	5:x:213:ARG:CD	1.67	1.22
4:0:226:TYR:CB	4:0:335:VAL:CG2	2.17	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
9:P:46:THR:O	9:P:50:LEU:CD2	1.86	1.22
6:y:345:PHE:CD2	6:y:360:LEU:CG	2.22	1.22
6:y:394:VAL:CG1	6:y:398:ASP:CB	2.17	1.22
4:0:399:VAL:HA	4:0:427:VAL:CG2	1.69	1.22
1:I:223:ILE:CD1	1:I:347:ILE:HG21	1.69	1.22
3:L:195:PHE:CD1	3:L:229:ILE:HB	1.72	1.22
3:L:195:PHE:CE1	3:L:229:ILE:HG13	1.74	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
1:w:103:ARG:HG2	1:w:160:ILE:CG2	1.67	1.22
1:w:122:ILE:HD11	1:w:130:GLU:CB	1.68	1.22
1:w:223:ILE:CD1	1:w:347:ILE:HG21	1.69	1.22
4:0:231:THR:O	33:0:501:ADP:N7	1.70	1.22
9:3:107:GLN:O	9:3:141:GLU:OE2	1.57	1.22
1:I:156:VAL:CG1	2:H:95:VAL:HB	1.70	1.22
12:S:448:GLU:O	12:S:461:LYS:CB	1.86	1.22
5:x:189:TYR:CZ	5:x:316:GLU:CG	2.22	1.22
4:M:80:ILE:HG23	4:M:84:LYS:CG	1.69	1.21
4:M:226:TYR:CB	4:M:335:VAL:CG2	2.17	1.21
6:K:293:LEU:CD2	6:K:326:ARG:NH1	2.02	1.21
2:v:225:CYS:O	2:v:229:VAL:HG23	1.35	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:230:THR:HG21	1:I:353:PHE:C	1.63	1.21
4:M:180:ARG:NH1	4:M:241:ALA:O	1.71	1.21
3:z:195:PHE:CE1	3:z:229:ILE:HG13	1.74	1.21
3:L:235:ILE:O	3:L:239:GLY:N	1.72	1.21
5:J:150:MET:O	5:J:151:ILE:HG13	1.37	1.21
25:X:170:GLN:OE1	3:z:372:ARG:HD2	1.34	1.21
2:v:280:ILE:O	2:v:295:VAL:CG1	1.87	1.21
4:0:180:ARG:NH1	4:0:241:ALA:O	1.71	1.21
11:5:229:ILE:HD11	11:5:295:TYR:CZ	1.76	1.21
3:L:215:ILE:HD13	3:L:260:LEU:CD2	1.69	1.21
5:J:72:TYR:CE2	5:J:121:TYR:OH	1.92	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
6:y:86:PRO:O	6:y:134:LYS:HE3	1.38	1.21
6:y:225:ALA:HB1	6:y:259:PRO:O	1.37	1.21
3:z:67:GLU:O	3:z:82:GLY:HA2	1.39	1.21
4:0:373:MET:CE	4:0:415:LEU:HD11	1.71	1.21
14:8:70:LEU:HD11	14:8:72:HIS:CE1	1.75	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
11:R:256:VAL:O	11:R:259:TYR:HD1	1.21	1.21
2:v:161:VAL:HG21	2:v:259:GLU:CB	1.71	1.21
4:0:80:ILE:HG23	4:0:84:LYS:CG	1.69	1.21
10:4:236:PHE:CE1	10:4:251:LEU:HG	1.76	1.21
20:i:204:GLU:OE2	20:i:226:LYS:HG3	1.35	1.20
6:y:54:LEU:O	6:y:58:GLU:HB2	1.41	1.20
6:y:293:LEU:CD2	6:y:326:ARG:NH1	2.02	1.20
10:4:258:LYS:CE	10:4:266:ASP:HB3	1.70	1.20
4:M:399:VAL:HA	4:M:427:VAL:CG2	1.69	1.20
6:y:348:ILE:CG2	6:y:379:CYS:SG	2.28	1.20
3:z:235:ILE:O	3:z:239:GLY:N	1.72	1.20
7:1:35:TRP:CH2	12:6:273:LYS:HD2	1.76	1.20
15:9:306:THR:O	15:9:310:LYS:CE	1.88	1.20
3:L:184:ALA:HB2	3:L:231:PHE:CE1	1.76	1.20
2:v:95:VAL:HB	1:w:156:VAL:CG1	1.70	1.20
3:z:150:GLU:O	3:z:153:LEU:CG	1.90	1.20
8:2:341:LEU:HB3	8:2:345:GLN:OE1	1.42	1.20
10:Q:258:LYS:CE	10:Q:266:ASP:HB3	1.70	1.20
3:z:264:MET:SD	3:z:275:MET:HE1	1.82	1.20
1:I:136:LEU:CD2	2:H:87:LEU:HD22	1.72	1.19
2:H:245:LEU:HD12	2:H:280:ILE:CD1	1.71	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:225:MET:HG2	4:M:354:PHE:CE2	1.77	1.19
13:T:332:SER:OG	15:V:303:MET:O	1.59	1.19
2:v:157:ILE:HG21	2:v:263:MET:SD	1.81	1.19
5:x:72:TYR:CE2	5:x:121:TYR:OH	1.92	1.19
3:z:215:ILE:HD13	3:z:260:LEU:CD2	1.69	1.19
4:0:225:MET:HG2	4:0:354:PHE:CE2	1.77	1.19
4:0:341:ALA:O	4:0:347:ARG:NH1	1.75	1.19
3:L:150:GLU:O	3:L:153:LEU:CG	1.90	1.19
10:Q:236:PHE:CE1	10:Q:251:LEU:HG	1.76	1.19
1:w:250:VAL:CG2	1:w:270:LEU:HD13	1.71	1.19
1:I:421:LYS:O	1:I:425:ASN:HB2	1.40	1.19
4:M:139:LEU:O	4:M:140:VAL:HG13	1.39	1.19
6:K:149:SER:N	6:K:150:SER:HA	1.44	1.19
9:P:48:LEU:HD21	9:P:90:LEU:CD1	1.72	1.19
2:v:333:ARG:HG2	2:v:334:PRO:HD2	1.19	1.19
6:y:184:PRO:HG3	6:y:191:TYR:OH	1.03	1.19
3:z:184:ALA:HB2	3:z:231:PHE:CE1	1.76	1.19
9:3:231:ILE:CG1	9:3:247:TYR:OH	1.90	1.19
18:AC:318:THR:O	18:AC:322:SER:CB	1.89	1.19
2:H:348:LEU:CD1	23:l:175:GLU:CD	2.14	1.19
4:M:373:MET:CE	4:M:415:LEU:HD11	1.71	1.19
5:J:189:TYR:CE2	5:J:316:GLU:HG2	1.76	1.19
6:K:64:GLU:O	6:K:68:LEU:HD12	1.42	1.19
8:O:341:LEU:HB3	8:O:345:GLN:OE1	1.42	1.19
2:v:143:ASP:OD2	2:v:146:LYS:HB2	1.41	1.19
2:v:245:LEU:HD12	2:v:280:ILE:CD1	1.71	1.19
5:x:189:TYR:CE2	5:x:316:GLU:HG2	1.76	1.19
6:y:160:PRO:CG	6:y:220:ALA:HB3	1.71	1.19
3:z:148:VAL:HG22	3:z:167:PRO:CB	1.73	1.19
4:0:295:ARG:HD2	4:0:339:ASP:OD2	1.05	1.19
1:I:287:ILE:O	1:I:290:ILE:HG22	1.43	1.19
6:K:160:PRO:CG	6:K:220:ALA:HB3	1.71	1.19
2:v:87:LEU:HD22	1:w:136:LEU:CD2	1.72	1.19
5:x:114:VAL:CG1	5:x:126:ILE:HG23	1.73	1.19
5:x:279:GLN:O	5:x:284:GLU:CB	1.88	1.19
3:L:58:GLY:CA	3:L:74:THR:HG23	1.72	1.18
3:L:264:MET:SD	3:L:275:MET:HE1	1.82	1.18
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
3:z:58:GLY:CA	3:z:74:THR:HG23	1.72	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:67:GLU:O	3:L:82:GLY:HA2	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
2:v:99:THR:CG2	2:v:142:VAL:CG2	2.15	1.18
1:w:250:VAL:HG21	1:w:270:LEU:HD13	1.21	1.18
5:x:354:ALA:CA	5:x:358:GLU:OE1	1.90	1.18
4:0:139:LEU:O	4:0:140:VAL:HG13	1.39	1.18
4:0:226:TYR:HB2	4:0:335:VAL:CG2	1.73	1.18
13:7:330:ILE:CG2	13:7:334:GLU:OE1	1.92	1.18
6:K:86:PRO:O	6:K:134:LYS:HE3	1.38	1.18
6:y:64:GLU:O	6:y:68:LEU:HD12	1.42	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
9:P:384:LEU:HB3	9:P:388:GLU:HB2	1.20	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
13:7:332:SER:OG	15:9:303:MET:O	1.59	1.18
4:M:376:SER:HB3	4:M:414:GLU:OE1	1.44	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
1:I:118:ASP:CG	1:I:120:HIS:CD2	2.22	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
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
14:U:79:TYR:CD2	14:U:91:ILE:HG13	1.79	1.17
5:x:224:ILE:HG23	5:x:237:MET:SD	1.83	1.17
7:1:549:ALA:HB1	7:1:581:SER:CB	1.72	1.17
9:3:48:LEU:HD21	9:3:90:LEU:CD1	1.72	1.17
3:L:126:ASP:CG	3:L:197:LYS:HD3	1.69	1.17
20:C:132:SER:HB3	20:C:162:MET:CE	1.74	1.17
4:0:374:ASN:O	4:0:414:GLU:HB2	1.01	1.17
3:L:327:ASP:OD1	3:L:330:ALA:CB	1.93	1.17
6:K:54:LEU:O	6:K:58:GLU:HB2	1.41	1.17
11:R:127:THR:O	11:R:131:THR:HG23	1.41	1.17
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
3:z:327:ASP:OD1	3:z:330:ALA:HB3	1.43	1.17
11:5:50:MET:HE3	11:5:53:TYR:CE2	1.78	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:137:LEU:HD22	5:J:224:ILE:CD1	1.74	1.17
2:v:355:PHE:CE1	2:v:385:ILE:HG22	1.80	1.17
14:8:94:TRP:CZ3	14:8:121:LEU:CD1	2.28	1.17
14:U:79:TYR:CE2	14:U:91:ILE:HG13	1.78	1.16
1:w:187:ILE:HD12	1:w:194:ILE:HD11	1.25	1.16
5:x:137:LEU:HD22	5:x:224:ILE:CD1	1.74	1.16
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
9:3:388:GLU:O	9:3:392:PHE:HD2	1.26	1.16
4:M:374:ASN:O	4:M:414:GLU:HB2	1.01	1.16
5:J:67:GLN:HA	6:K:136:SER:OG	1.45	1.16
5:J:137:LEU:HD13	5:J:220:VAL:CG1	1.66	1.16
6:K:133:HIS:ND1	6:K:136:SER:CB	2.08	1.16
27:p:187:ARG:HB3	27:p:188:PRO:CD	1.73	1.16
5:x:41:ASN:O	5:x:44:ARG:HB2	1.41	1.16
11:5:127:THR:O	11:5:131:THR:HG23	1.41	1.16
1:w:283:PHE:CE1	1:w:328:ILE:HG22	1.80	1.16
1:w:402:ALA:HB1	1:w:414:VAL:HG11	1.20	1.16
6:y:92:PHE:O	6:y:127:ASN:OD1	1.63	1.16
6:y:219:VAL:O	6:y:223:THR:HB	1.45	1.16
3:z:126:ASP:CG	3:z:197:LYS:HD3	1.69	1.16
9:3:384:LEU:HB3	9:3:388:GLU:HB2	1.20	1.16
10:4:402:GLU:HG3	15:9:249:LEU:HD11	1.18	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
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
2:v:87:LEU:HD13	1:w:102:LEU:HD13	1.25	1.16
4:0:376:SER:HB3	4:0:414:GLU:OE1	1.44	1.16
15:9:267:PRO:HD2	15:9:268:GLU:OE1	1.45	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
3:L:58:GLY:HA2	3:L:74:THR:CG2	1.76	1.16
3:L:277:MET:HG3	3:L:295:LEU:HD21	1.23	1.16
6:K:184:PRO:HG3	6:K:191:TYR:OH	1.03	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
1:w:369:THR:CB	1:w:374:LEU:HD13	1.75	1.16
1:w:421:LYS:O	1:w:425:ASN:HB2	1.40	1.16
6:y:133:HIS:ND1	6:y:136:SER:CB	2.08	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:226:GLN:CB	3:z:273:VAL:HG23	1.76	1.16
8:2:132:LYS:HB2	8:2:162:TYR:OH	1.45	1.16
10:4:84:LYS:HE3	10:4:88:LEU:CD2	1.76	1.16
10:4:297:ARG:HB3	10:4:333:GLN:HB3	1.17	1.16
14:8:23:PHE:CD2	14:8:126:VAL:HG21	1.79	1.16
1:I:283:PHE:CE1	1:I:328:ILE:HG22	1.80	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:w:343:ARG:NH2	1:w:346:ARG:HH21	1.44	1.15
11:5:50:MET:HE3	11:5:53:TYR:HE2	1.03	1.15
12:6:448:GLU:C	12:6:461:LYS:CG	2.19	1.15
14:8:215:VAL:CA	14:8:220:LEU:CB	2.23	1.15
3:L:327:ASP:OD1	3:L:330:ALA:HB3	1.43	1.15
5:J:338:LEU:HD21	5:J:383:PHE:HE2	1.06	1.15
6:K:345:PHE:CD2	6:K:360:LEU:CD2	2.29	1.15
7:N:474:ARG:O	7:N:478:SER:OG	1.61	1.15
11:R:133:ALA:HB3	11:R:136:HIS:HD2	1.03	1.15
1:w:170:LEU:CD1	1:w:269:GLU:HB3	1.76	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
2:v:95:VAL:CB	1:w:156:VAL:HG12	1.75	1.15
1:w:115:ILE:HA	1:w:121:ALA:HB2	1.29	1.15
1:w:187:ILE:CD1	1:w:194:ILE:HD11	1.76	1.15
5:x:67:GLN:HA	6:y:136:SER:OG	1.45	1.15
6:y:90:GLY:O	6:y:130:VAL:CG2	1.95	1.15
14:U:22:HIS:CD2	14:U:35:VAL:HG11	1.61	1.15
2:v:161:VAL:HG12	2:v:263:MET:SD	1.85	1.15
6:y:207:PRO:CB	6:y:335:LEU:CD2	2.19	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:35:HIS:CA	16:W:14:GLU:OE2	1.95	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
12:S:448:GLU:C	12:S:461:LYS:CG	2.19	1.15
1:w:118:ASP:CG	1:w:120:HIS:CD2	2.22	1.15
1:w:287:ILE:O	1:w:290:ILE:HG22	1.43	1.15
6:y:345:PHE:CD2	6:y:360:LEU:CD2	2.29	1.15
9:3:243:ILE:CG1	9:3:247:TYR:CE2	2.30	1.15
6:K:90:GLY:O	6:K:130:VAL:CG2	1.95	1.14
6:K:219:VAL:O	6:K:223:THR:HB	1.45	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:317:TRP:HZ2	9:P:351:TRP:CZ3	1.64	1.14
13:T:330:ILE:HG23	13:T:334:GLU:CD	1.73	1.14
3:z:327:ASP:OD1	3:z:330:ALA:CB	1.93	1.14
4:0:187:ASP:O	4:0:368:ILE:HD13	1.44	1.14
1:I:200:SER:HB2	1:I:219:PRO:HG3	1.27	1.14
2:H:99:THR:CG2	2:H:142:VAL:CG2	2.15	1.14
10:Q:163:LYS:HD2	10:Q:200:ILE:HG21	1.17	1.14
10:Q:402:GLU:HG3	15:V:249:LEU:HD11	1.18	1.14
3:z:58:GLY:HA2	3:z:74:THR:CG2	1.76	1.14
4:0:288:LEU:HD21	4:0:342:LEU:HD13	1.21	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
12:6:299:GLN:O	12:6:300:LEU:CD2	1.94	1.14
13:7:250:ASN:O	13:7:253:ALA:HB3	1.47	1.14
1:I:187:ILE:CD1	1:I:194:ILE:HD11	1.76	1.14
6:K:93:LEU:HD12	6:K:94:GLU:HG3	1.14	1.14
6:K:125:LYS:HB3	6:K:126:PRO:CD	1.77	1.14
6:y:163:MET:CG	6:y:221:HIS:HE1	1.59	1.14
3:L:345:ASN:OD1	4:M:349:ASP:OD1	1.66	1.14
6:K:57:GLN:O	6:K:61:ILE:HG12	1.47	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
14:U:94:TRP:CH2	14:U:121:LEU:HD22	1.83	1.14
2:v:190:VAL:HG11	2:v:212:VAL:CG2	1.77	1.14
6:y:93:LEU:HD12	6:y:94:GLU:HG3	1.14	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
15:9:53:VAL:HG12	15:9:77:GLN:HE22	1.04	1.14
3:L:226:GLN:CB	3:L:273:VAL:HG23	1.76	1.14
20:C:134:LEU:HG	20:C:162:MET:SD	1.88	1.14
5:x:160:GLU:CB	5:x:315:ILE:CD1	2.26	1.14
7:1:154:ALA:HA	7:1:157:THR:CB	1.77	1.14
11:5:344:HIS:NE2	11:5:359:PRO:HG3	1.61	1.14
1:I:339:PRO:CB	2:H:425:ALA:HB1	1.75	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
1:w:200:SER:CB	1:w:219:PRO:HG3	1.77	1.13
6:y:121:ARG:O	6:y:123:LEU:N	1.79	1.13
11:5:250:LEU:CD2	11:5:257:ARG:HB3	1.77	1.13
11:5:344:HIS:CE1	11:5:359:PRO:CG	2.30	1.13
13:7:330:ILE:HG23	13:7:334:GLU:CD	1.73	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:L:205:ASP:CB	3:L:210:GLU:HG2	1.78	1.13
4:M:373:MET:HE1	4:M:415:LEU:HD11	1.29	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
15:V:53:VAL:HG12	15:V:77:GLN:HE22	1.04	1.13
19:h:208:ILE:O	19:h:209:ASP:CG	1.92	1.13
5:x:154:LEU:O	5:x:158:ILE:HG13	1.48	1.13
2:H:333:ARG:HG2	2:H:334:PRO:HD2	1.19	1.13
6:K:167:ILE:CD1	6:K:218:ALA:HB2	1.79	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
2:v:220:THR:HG21	2:v:343:PHE:HB3	1.23	1.13
2:v:330:ALA:HB1	2:v:336:ARG:NH1	1.64	1.13
3:z:258:MET:HA	3:z:261:LEU:HD12	1.17	1.13
3:z:345:ASN:OD1	4:0:349:ASP:OD1	1.66	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
18:AC:667:GLY:C	18:AC:671:ALA:HB3	1.73	1.13
1:I:200:SER:CB	1:I:219:PRO:HG3	1.77	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
12:S:484:LEU:HD13	13:T:345:GLN:HB3	1.28	1.13
5:x:189:TYR:CZ	5:x:316:GLU:HB3	1.83	1.13
14:8:94:TRP:CH2	14:8:121:LEU:HD22	1.83	1.13
2:H:88:GLN:O	2:H:92:PRO:CD	1.95	1.12
2:H:119:ALA:HB1	4:M:127:SER:HB3	1.22	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
2:H:355:PHE:CE1	2:H:385:ILE:HG22	1.80	1.12
6:K:145:PRO:HG2	6:K:256:GLU:HG3	1.31	1.13
5:x:90:HIS:HB3	5:x:91:PRO:HD3	1.16	1.12
6:y:125:LYS:HB3	6:y:126:PRO:CD	1.77	1.13
3:z:126:ASP:OD2	3:z:197:LYS:HD3	1.42	1.13
5:J:77:VAL:HB	5:J:86:LEU:HD12	1.20	1.12
11:R:344:HIS:CE1	11:R:359:PRO:CG	2.30	1.12
5:x:147:THR:O	5:x:150:MET:HG2	1.49	1.12
3:L:215:ILE:HD13	3:L:260:LEU:HD23	1.27	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:170:LEU:HD13	1:w:269:GLU:HB3	1.32	1.12
5:x:137:LEU:HD13	5:x:220:VAL:CG1	1.66	1.12
3:z:205:ASP:CB	3:z:210:GLU:HG2	1.78	1.12
3:z:303:LEU:HD22	3:z:339:ASN:HA	1.19	1.12
4:0:80:ILE:O	4:0:84:LYS:CB	1.97	1.12
1:I:115:ILE:HA	1:I:121:ALA:HB2	1.29	1.12
2:H:125:LEU:HA	2:H:149:ILE:HB	1.31	1.12
4:M:202:ILE:HG21	4:M:282:ILE:HD11	1.30	1.12
5:J:45:LEU:O	5:J:49:ARG:HB2	1.50	1.12
5:J:189:TYR:CZ	5:J:316:GLU:HB3	1.83	1.12
8:O:73:PRO:HB3	8:O:110:ALA:HB2	1.26	1.12
10:Q:332:GLU:OE1	10:Q:364:LYS:HD3	1.49	1.12
14:U:79:TYR:CE2	14:U:91:ILE:CG1	2.32	1.12
18:Z:667:GLY:C	18:Z:671:ALA:HB3	1.73	1.12
1:w:287:ILE:HD12	1:w:331:THR:HG23	1.13	1.12
4:0:177:VAL:HG21	4:0:248:PHE:CD2	1.85	1.12
1:I:122:ILE:CD1	1:I:130:GLU:HB3	1.80	1.12
1:I:223:ILE:HG13	1:I:347:ILE:CG2	1.80	1.12
2:H:190:VAL:HG21	2:H:212:VAL:CG2	1.79	1.12
4:M:177:VAL:HG21	4:M:248:PHE:CD2	1.85	1.12
14:U:22:HIS:NE2	14:U:35:VAL:HG13	1.64	1.12
14:U:43:TRP:HA	14:U:48:LEU:CD2	1.80	1.12
2:v:190:VAL:HG21	2:v:212:VAL:CG2	1.79	1.12
5:x:30:GLU:O	5:x:34:ILE:HG13	0.95	1.12
6:y:167:ILE:CD1	6:y:218:ALA:HB2	1.79	1.12
6:y:371:SER:O	6:y:375:ILE:HD12	1.49	1.12
3:z:354:ALA:HB1	4:0:215:LEU:HD11	1.27	1.12
10:4:212:MET:HG3	10:4:235:ALA:HB1	1.27	1.12
16:AA:52:ILE:O	16:AA:52:ILE:HG13	1.47	1.12
2:H:330:ALA:HB1	2:H:336:ARG:NH1	1.64	1.12
2:v:233:THR:O	2:v:234:ASP:HB2	1.49	1.12
2:v:387:SER:O	2:v:391:GLU:HB2	1.47	1.12
1:w:387:LYS:HB3	1:w:390:LEU:HD23	1.17	1.12
5:x:77:VAL:HB	5:x:86:LEU:HD12	1.20	1.12
1:I:246:THR:OG1	1:I:280:SER:HB3	1.50	1.11
3:L:354:ALA:HB1	4:M:215:LEU:HD11	1.27	1.11
5:J:333:SER:HB2	5:J:338:LEU:CD1	1.80	1.11
9:P:168:GLU:O	9:P:170:GLN:N	1.83	1.11
9:P:448:LYS:HE3	14:U:154:THR:OG1	1.50	1.11
13:T:116:LEU:O	13:T:120:LYS:HB2	1.50	1.11
2:v:119:ALA:HB1	4:0:127:SER:HB3	1.22	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:172:VAL:CG1	2:v:224:LEU:HD22	1.80	1.11
2:v:180:CYS:SG	2:v:183:GLN:HG3	1.91	1.11
3:z:277:MET:HG3	3:z:295:LEU:HD21	1.23	1.11
9:3:168:GLU:O	9:3:170:GLN:N	1.83	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
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: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
2:H:220:THR:HG21	2:H:343:PHE:HB3	1.23	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
1:w:232:LYS:HA	1:w:353:PHE:CE2	1.85	1.11
5:x:335:LYS:HA	11:5:173:ASP:HB3	1.13	1.11
6:y:354:LEU:HA	6:y:393:ILE:CG2	1.80	1.11
3:z:195:PHE:CD1	3:z:229:ILE:CB	2.33	1.11
14:8:22:HIS:NE2	14:8:35:VAL:HG13	1.64	1.11
1:I:424:GLU:CA	1:I:428:TYR:CD2	2.34	1.11
2:H:90:GLU:HA	2:H:93:LEU:HD23	1.14	1.11
7:N:401:LYS:HG2	7:N:438:GLN:CG	1.80	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:v:89:SER:O	2:v:92:PRO:HD2	1.47	1.11
2:v:218:PRO:HD3	2:v:429:TYR:HD2	1.15	1.11
1:w:106:PRO:HB2	5:x:97:VAL:HG12	1.26	1.11
6:y:226:ALA:HB1	6:y:257:ASN:HD22	1.13	1.11
2:H:233:THR:O	2:H:234:ASP:HB2	1.49	1.11
4:M:226:TYR:CG	4:M:335:VAL:HG21	1.86	1.11
6:K:403:TYR:O	6:K:407:ILE:CD1	1.99	1.11
13:T:120:LYS:O	13:T:124:LEU:HB2	0.95	1.11
2:v:87:LEU:HD13	1:w:102:LEU:CD1	1.81	1.11
2:v:425:ALA:HB1	1:w:339:PRO:CB	1.75	1.11
5:x:333:SER:HB2	5:x:338:LEU:CD1	1.80	1.11
6:y:207:PRO:HG2	6:y:335:LEU:HD23	1.27	1.11
6:y:225:ALA:CB	6:y:259:PRO:O	1.99	1.11
4:0:226:TYR:CG	4:0:335:VAL:HG21	1.86	1.11
11:5:241:ILE:HD13	11:5:260:LEU:HD11	1.15	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:43:TRP:HA	14:8:48:LEU:CD2	1.80	1.11
1:I:232:LYS:HA	1:I:353:PHE:CE2	1.85	1.11
4:M:202:ILE:CD1	4:M:329:ILE:HD11	1.81	1.11
6:K:371:SER:O	6:K:375:ILE:CD1	1.99	1.11
10:Q:183:LEU:HD11	10:Q:220:ALA:HB1	1.16	1.11
10:Q:202:CYS:HB2	10:Q:203:PRO:HA	1.26	1.11
5:x:137:LEU:HD11	5:x:220:VAL:CG1	1.75	1.11
6:y:57:GLN:O	6:y:61:ILE:HG12	1.47	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:106:PRO:HB2	5:J:97:VAL:HG12	1.26	1.10
2:H:180:CYS:SG	2:H:183:GLN:HG3	1.91	1.10
3:L:238:ILE:HD12	3:L:257:LEU:HB2	1.31	1.10
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
1:w:223:ILE:HG13	1:w:347:ILE:CG2	1.80	1.10
3:z:205:ASP:HB2	3:z:210:GLU:HG2	1.32	1.10
4:0:384:LEU:HA	4:0:387:CYS:SG	1.91	1.10
7:1:470:ASN:H	7:1:474:ARG:HB2	1.14	1.10
11:5:185:GLY:C	11:5:201:PHE:CE2	2.28	1.10
14:8:131:LEU:HD11	14:8:199:LYS:HD3	1.28	1.10
1:I:187:ILE:HD12	1:I:194:ILE:HD11	1.25	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
3:L:126:ASP:OD2	3:L:197:LYS:HD3	1.42	1.10
4:M:384:LEU:HA	4:M:387:CYS:SG	1.91	1.10
5:J:30:GLU:O	5:J:34:ILE:HG13	0.95	1.10
6:K:354:LEU:HA	6:K:393:ILE:CG2	1.80	1.10
2:v:125:LEU:HA	2:v:149:ILE:HB	1.31	1.10
1:w:122:ILE:CD1	1:w:130:GLU:HB3	1.80	1.10
1:w:171:VAL:O	1:w:175:LYS:HB2	1.47	1.10
5:x:143:VAL:CG1	5:x:213:ARG:HD3	1.82	1.10
6:y:371:SER:O	6:y:375:ILE:CD1	1.99	1.10
8:2:242:SER:O	8:2:279:GLU:OE2	1.67	1.10
9:3:448:LYS:HE3	14:8:154:THR:OG1	1.50	1.10
10:4:163:LYS:HD2	10:4:200:ILE:HG21	1.17	1.10
13:7:120:LYS:O	13:7:124:LEU:HB2	0.95	1.10
3:L:303:LEU:HD22	3:L:339:ASN:HA	1.19	1.10
4:M:80:ILE:O	4:M:84:LYS:CB	1.97	1.10
5:J:147:THR:O	5:J:150:MET:HG2	1.49	1.10
5:J:273:MET:CE	5:J:305:LEU:HD21	1.82	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:449:GLU:OE2	14:U:223:ASN:ND2	1.84	1.10
2:v:245:LEU:HD12	2:v:280:ILE:CG1	1.81	1.10
1:w:200:SER:HB2	1:w:219:PRO:HG3	1.27	1.10
5:x:273:MET:CE	5:x:305:LEU:HD21	1.82	1.10
4:0:202:ILE:HG21	4:0:282:ILE:HD11	1.30	1.10
4:0:373:MET:HE1	4:0:415:LEU:HD11	1.29	1.10
9:3:388:GLU:O	9:3:392:PHE:CD2	2.05	1.10
6:K:82:ILE:HG21	6:K:116:LEU:HD11	1.20	1.10
6:K:276:ASP:HB3	6:K:282:ASP:OD2	1.51	1.10
11:R:185:GLY:C	11:R:201:PHE:CE2	2.28	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
5:x:90:HIS:HB3	5:x:91:PRO:CD	1.79	1.10
7:1:401:LYS:HG2	7:1:438:GLN:CG	1.80	1.10
10:4:332:GLU:OE1	10:4:364:LYS:HD3	1.49	1.10
1:I:136:LEU:HA	2:H:87:LEU:HD21	1.33	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:CG2	13:T:334:GLU:CD	2.25	1.10
18:Z:164:GLY:HA2	18:Z:167:ALA:HB3	1.26	1.10
2:v:112:ILE:HG12	2:v:122:VAL:HG22	1.34	1.10
5:x:45:LEU:O	5:x:49:ARG:HB2	1.50	1.10
5:x:138:MET:HE1	5:x:143:VAL:HG22	1.26	1.10
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
5:J:114:VAL:HG12	5:J:126:ILE:HA	1.32	1.09
20:i:198:PHE:HZ	20:i:206:ASN:HB3	1.17	1.09
1:w:424:GLU:HG2	1:w:428:TYR:CE2	1.86	1.09
1:w:424:GLU:CA	1:w:428:TYR:CD2	2.34	1.09
6:y:145:PRO:HG2	6:y:256:GLU:HG3	1.31	1.09
4:0:202:ILE:CD1	4:0:329:ILE:HD11	1.81	1.09
9:3:449:GLU:OE2	14:8:223:ASN:ND2	1.84	1.09
18:AC:792:ALA:CB	18:AC:824:ALA:HB2	1.82	1.09
3:L:195:PHE:CD1	3:L:229:ILE:CB	2.33	1.09
3:L:205:ASP:HB2	3:L:210:GLU:HG2	1.32	1.09
5:J:137:LEU:HD22	5:J:224:ILE:HD13	1.29	1.09
6:K:128:ALA:CB	6:K:142:VAL:HG13	1.82	1.09
1:w:313:LEU:HG	1:w:346:ARG:NH1	1.67	1.09
6:y:115:ILE:HD12	6:y:121:ARG:NH1	1.66	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:149:SER:N	6:y:150:SER:HA	1.44	1.09
3:z:145:LEU:CG	3:z:149:ILE:CD1	2.30	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
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
3:L:172:LEU:HD22	3:L:301:ILE:HD11	1.35	1.09
5:J:138:MET:HE1	5:J:143:VAL:HG22	1.26	1.09
6:K:225:ALA:CB	6:K:259:PRO:O	1.99	1.09
7:N:35:TRP:CH2	12:S:273:LYS:CD	2.35	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
10:Q:190:LEU:HD23	10:Q:217:ILE:HD12	1.29	1.09
11:R:133:ALA:HB3	11:R:136:HIS:CD2	1.86	1.09
1:w:246:THR:OG1	1:w:280:SER:HB3	1.50	1.09
3:z:143:ARG:CG	3:z:147:GLU:OE2	2.00	1.09
7:1:419:ALA:HB1	7:1:449:ILE:HD12	1.26	1.09
11:5:133:ALA:HB3	11:5:136:HIS:CD2	1.86	1.09
1:I:102:LEU:CD1	2:H:87:LEU:HD13	1.81	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
5:J:335:LYS:HA	11:R:173:ASP:HB3	1.13	1.09
16:W:52:ILE:O	16:W:52:ILE:HG13	1.47	1.09
6:y:267:ILE:HD13	6:y:309:MET:HB3	1.34	1.09
6:y:403:TYR:O	6:y:407:ILE:CD1	1.99	1.09
4:0:142:ALA:HA	4:0:145:LEU:HD12	1.35	1.09
7:1:402:PHE:HB2	7:1:437:TYR:HB3	1.33	1.09
8:2:132:LYS:HB2	8:2:162:TYR:CZ	1.88	1.09
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:103:ARG:HG2	1:I:160:ILE:HG21	1.10	1.09
1:I:386:ALA:HB1	1:I:423:LYS:HE3	1.34	1.09
2:H:299:MET:CE	2:H:328:ASP:OD2	2.01	1.09
4:M:376:SER:HB2	4:M:377:PRO:HD2	1.35	1.09
5:J:133:PRO:HG2	5:J:237:MET:HE1	1.12	1.09
6:K:343:LEU:O	6:K:347:THR:HG23	1.51	1.09
7:N:35:TRP:CH2	12:S:273:LYS:HE2	1.88	1.09
12:S:477:HIS:O	13:T:342:TYR:OH	1.70	1.09
1:w:103:ARG:HG2	1:w:160:ILE:HG21	1.10	1.09
5:x:114:VAL:HG12	5:x:126:ILE:HA	1.32	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:137:LEU:HD22	5:x:224:ILE:HD13	1.29	1.09
5:x:187:LEU:HD12	5:x:293:MET:O	1.50	1.09
4:0:83:ASN:OD1	4:0:161:LEU:HD22	1.53	1.09
10:4:397:TYR:HD2	11:5:365:GLN:CD	1.60	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
12:6:477:HIS:O	13:7:342:TYR:OH	1.70	1.09
18:AC:164:GLY:HA2	18:AC:167:ALA:HB3	1.26	1.09
1:I:230:THR:CG2	1:I:353:PHE:C	2.21	1.08
4:M:310:MET:HE1	4:M:339:ASP:OD2	1.53	1.08
5:J:235:PHE:CE1	5:J:276:LEU:CD2	2.35	1.08
7:N:470:ASN:H	7:N:474:ARG:CB	1.66	1.08
9:P:149:LEU:HD11	9:P:165:ILE:CD1	1.83	1.08
5:x:235:PHE:CE1	5:x:276:LEU:CD2	2.35	1.08
5:x:338:LEU:HD21	5:x:383:PHE:HE2	1.06	1.08
7:1:35:TRP:CH2	12:6:273:LYS:CD	2.35	1.08
1:I:313:LEU:HG	1:I:346:ARG:NH1	1.67	1.08
6:K:210:CYS:SG	6:K:335:LEU:HD23	1.93	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
20:C:198:PHE:CZ	20:C:206:ASN:HB3	1.87	1.08
6:y:276:ASP:HB3	6:y:282:ASP:OD2	1.51	1.08
7:1:7:GLY:HA2	13:7:170:GLN:HG2	1.31	1.08
7:1:22:PHE:HB3	13:7:121:LEU:HD21	1.09	1.08
7:1:35:TRP:CH2	12:6:273:LYS:HE2	1.88	1.08
7:1:406:ALA:HA	7:1:445:ALA:HB2	1.10	1.08
13:7:116:LEU:O	13:7:120:LYS:HB2	1.50	1.08
13:7:330:ILE:CG2	13:7:334:GLU:CD	2.25	1.08
2:H:355:PHE:CE1	2:H:385:ILE:HG23	1.86	1.08
3:L:258:MET:HA	3:L:261:LEU:HD12	1.17	1.08
5:J:143:VAL:CG1	5:J:213:ARG:HD3	1.82	1.08
12:S:476:PHE:O	12:S:480:ILE:HD12	1.52	1.08
1:w:200:SER:CA	1:w:219:PRO:HG3	1.83	1.08
6:y:82:ILE:HG21	6:y:116:LEU:HD11	1.20	1.08
3:z:258:MET:HA	3:z:261:LEU:CD1	1.83	1.08
4:0:80:ILE:CG2	4:0:84:LYS:HG3	1.84	1.08
8:2:73:PRO:HB3	8:2:110:ALA:HB2	1.26	1.08
9:3:209:ILE:HG21	9:3:226:TYR:OH	1.51	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
7:N:419:ALA:HB1	7:N:449:ILE:HD12	1.26	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:297:ARG:HB3	10:Q:333:GLN:HB3	1.14	1.08
23:F:20:ARG:HB3	4:0:435:LEU:HD11	1.35	1.08
2:v:319:MET:SD	2:v:337:LEU:HD11	1.92	1.08
6:y:100:THR:CG2	6:y:112:TYR:CZ	2.30	1.08
3:z:215:ILE:HD13	3:z:260:LEU:HD23	1.27	1.08
7:1:791:LEU:O	7:1:792:ASN:HB2	1.46	1.08
9:3:149:LEU:HD11	9:3:165:ILE:CD1	1.83	1.08
10:4:48:GLN:O	10:4:52:GLU:N	1.86	1.08
1:I:287:ILE:HD12	1:I:331:THR:HG23	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
6:K:226:ALA:HB1	6:K:257:ASN:HD22	1.13	1.08
7:N:470:ASN:H	7:N:474:ARG:HB2	1.14	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
23:F:18:GLU:OE2	4:0:431:LYS:HD2	1.51	1.08
1:w:230:THR:CG2	1:w:353:PHE:C	2.21	1.08
6:y:128:ALA:CB	6:y:142:VAL:HG13	1.82	1.08
4:0:217:ILE:HG13	4:0:218:GLN:N	1.69	1.08
4:0:312:GLU:O	4:0:316:GLN:HG2	1.53	1.08
7:1:470:ASN:H	7:1:474:ARG:CB	1.66	1.08
18:AC:667:GLY:HA2	18:AC:671:ALA:HB2	1.28	1.08
1:I:200:SER:CA	1:I:219:PRO:HG3	1.83	1.07
2:H:111:TYR:CE1	2:H:125:LEU:HD22	1.71	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
4:M:288:LEU:HD21	4:M:342:LEU:HD13	1.21	1.07
7:N:22:PHE:HB3	13:T:121:LEU:HD21	1.09	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
10:Q:212:MET:HG3	10:Q:235:ALA:CB	1.82	1.07
18:Z:322:SER:O	18:Z:332:ALA:HB1	1.53	1.07
18:Z:667:GLY:HA2	18:Z:671:ALA:HB2	1.28	1.07
2:v:299:MET:CE	2:v:328:ASP:OD2	2.01	1.07
1:w:234:LEU:CD1	33:w:501:ADP:N3	2.16	1.07
9:3:344:THR:HA	9:3:348:GLU:CB	1.84	1.07
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
14:8:70:LEU:HD21	14:8:111:LEU:HD23	1.37	1.07
14:8:70:LEU:HD21	14:8:111:LEU:HD22	1.15	1.07
1:I:401:GLU:HG2	1:I:422:SER:HA	1.29	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:112:ILE:HG12	2:H:122:VAL:HG22	1.34	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
10:Q:397:TYR:HD2	11:R:365:GLN:CD	1.60	1.07
2:v:223:THR:O	2:v:227:ARG:HG3	1.53	1.07
1:w:283:PHE:CD1	1:w:328:ILE:CG2	2.38	1.07
1:w:313:LEU:CD1	1:w:340:ALA:CB	2.32	1.07
6:y:309:MET:SD	6:y:327:LEU:HD11	1.93	1.07
8:2:35:HIS:HB2	16:AA:14:GLU:HG3	1.37	1.07
9:3:209:ILE:HG21	9:3:226:TYR:CE1	1.87	1.07
1:I:144:LEU:HD11	1:I:162:VAL:CG2	1.84	1.07
2:H:246:VAL:C	2:H:247:GLN:HE21	1.63	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
2:v:355:PHE:CE1	2:v:385:ILE:HG23	1.86	1.07
1:w:144:LEU:HD11	1:w:162:VAL:CG2	1.84	1.07
6:y:210:CYS:SG	6:y:335:LEU:HD23	1.93	1.07
4:0:87:PRO:CB	4:0:155:LYS:HE2	1.85	1.07
4:0:310:MET:HE1	4:0:339:ASP:OD2	1.53	1.07
8:2:332:HIS:O	8:2:332:HIS:CG	2.06	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:313:LEU:CD1	1:I:340:ALA:CB	2.32	1.07
2:H:223:THR:O	2:H:227:ARG:HG3	1.53	1.07
7:N:406:ALA:HA	7:N:445:ALA:HB2	1.08	1.07
7:N:791:LEU:O	7:N:792:ASN:HB2	1.46	1.07
9:P:209:ILE:HG21	9:P:226:TYR:OH	1.51	1.07
10:Q:258:LYS:HE2	10:Q:266:ASP:CB	1.84	1.07
10:Q:339:ILE:HB	10:Q:387:ILE:HD11	1.09	1.07
5:x:133:PRO:HG2	5:x:237:MET:HE1	1.12	1.07
5:x:133:PRO:HG2	5:x:237:MET:HE3	1.35	1.07
6:y:149:SER:O	6:y:230:VAL:CG2	2.03	1.07
6:y:226:ALA:CB	6:y:257:ASN:ND2	2.17	1.07
3:z:172:LEU:HD22	3:z:301:ILE:HD11	1.35	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
6:K:207:PRO:HG2	6:K:335:LEU:HD23	1.27	1.07
2:v:362:MET:HE2	2:v:364:VAL:HG12	1.37	1.07
6:y:128:ALA:HB1	6:y:142:VAL:HG13	1.34	1.07
6:y:343:LEU:O	6:y:347:THR:HG23	1.51	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:w:200:SER:O	1:w:219:PRO:CG	2.03	1.06
1:w:234:LEU:HD11	33:w:501:ADP:C4	1.89	1.06
6:y:173:GLN:HE22	6:y:334:PRO:HD3	1.08	1.06
6:y:271:ALA:HB2	6:y:289:LEU:HD21	1.26	1.06
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
1:I:234:LEU:HD11	33:I:501:ADP:C4	1.89	1.06
2:H:254:ALA:O	2:H:258:ARG:HG2	1.54	1.06
3:L:358:ASP:O	3:L:359:HIS:ND1	1.89	1.06
3:L:363:VAL:HG23	3:L:364:GLN:H	1.17	1.06
6:K:309:MET:SD	6:K:327:LEU:HD11	1.93	1.06
18:Z:792:ALA:CB	18:Z:824:ALA:HB2	1.82	1.06
1:w:223:ILE:HG13	1:w:347:ILE:HG21	1.08	1.06
1:w:401:GLU:HG2	1:w:422:SER:HA	1.29	1.06
5:x:114:VAL:HG12	5:x:126:ILE:CA	1.84	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
5:J:114:VAL:HG12	5:J:126:ILE:CA	1.84	1.06
5:J:151:ILE:HD11	5:J:198:LEU:CG	1.85	1.06
12:S:348:PHE:CE2	12:S:361:PHE:HA	1.89	1.06
4:0:80:ILE:CG2	4:0:84:LYS:CD	2.33	1.06
11:5:142:PHE:CZ	11:5:180:LEU:HD23	1.91	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
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
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
4:0:202:ILE:HD11	4:0:329:ILE:HD11	1.36	1.06
4:0:228:PRO:HG2	4:0:356:MET:HG3	1.10	1.06
9:3:304:ASP:CG	9:3:324:TYR:OH	1.99	1.06
12:6:348:PHE:CE2	12:6:361:PHE:HA	1.89	1.06
1:I:313:LEU:HG	1:I:346:ARG:HH11	0.91	1.06
1:I:365:PHE:CZ	1:I:383:LEU:HD13	1.91	1.06
4:M:83:ASN:HA	4:M:161:LEU:HD13	1.37	1.06
5:J:137:LEU:HD11	5:J:220:VAL:CG1	1.75	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:275:PHE:CZ	6:K:289:LEU:HD12	1.91	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
13:T:250:ASN:O	13:T:253:ALA:CB	2.04	1.06
16:W:54:LEU:C	16:W:85:THR:OG1	1.98	1.06
3:z:49:ALA:O	3:z:52:SER:OG	1.74	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
4:M:83:ASN:OD1	4:M:161:LEU:HD22	1.53	1.05
4:M:374:ASN:C	4:M:414:GLU:HB2	1.82	1.05
4:M:399:VAL:HG22	4:M:427:VAL:HB	1.37	1.05
5:J:162:LYS:CG	5:J:166:GLU:OE1	2.04	1.05
6:K:93:LEU:CD1	6:K:94:GLU:CG	2.35	1.05
9:P:304:ASP:CG	9:P:324:TYR:OH	1.99	1.05
1:w:230:THR:HG21	1:w:353:PHE:CA	1.86	1.05
5:x:189:TYR:CZ	5:x:316:GLU:CB	2.39	1.05
6:y:226:ALA:HB1	6:y:257:ASN:ND2	1.68	1.05
13:7:250:ASN:O	13:7:253:ALA:CB	2.04	1.05
4:M:198:LEU:HD11	4:M:240:CYS:SG	1.96	1.05
2:v:246:VAL:C	2:v:247:GLN:HE21	1.63	1.05
5:x:162:LYS:CG	5:x:166:GLU:OE1	2.04	1.05
3:z:238:ILE:HD12	3:z:257:LEU:HB2	1.31	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:19:ASP:CB	10:Q:55:SER:CB	2.35	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
20:i:198:PHE:CZ	20:i:206:ASN:HB3	1.90	1.05
1:w:283:PHE:CE1	1:w:328:ILE:CG2	2.40	1.05
5:x:151:ILE:HD11	5:x:198:LEU:CG	1.85	1.05
6:y:378:ILE:HG13	6:y:406:VAL:HG21	1.34	1.05
3:z:358:ASP:O	3:z:359:HIS:ND1	1.89	1.05
8:2:38:THR:O	8:2:42:LEU:CG	2.05	1.05
3:L:264:MET:SD	3:L:275:MET:CE	2.45	1.05
6:K:207:PRO:CB	6:K:335:LEU:CD2	2.19	1.05
8:O:38:THR:O	8:O:42:LEU:CG	2.05	1.05
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
18:AC:322:SER:O	18:AC:332:ALA:HB1	1.56	1.05
2:H:190:VAL:CG1	2:H:212:VAL:CG2	2.34	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:213:THR:HB	33:K:501:ADP:O2A	1.56	1.05
10:Q:253:TYR:CE1	10:Q:319:ILE:HD11	1.91	1.05
10:Q:256:LEU:HD21	10:Q:319:ILE:HG23	1.35	1.05
13:T:95:TYR:O	13:T:99:LYS:HB2	1.57	1.05
1:w:313:LEU:HG	1:w:346:ARG:HH11	0.91	1.05
1:w:313:LEU:HD12	1:w:340:ALA:HB1	1.34	1.05
6:y:163:MET:HG2	6:y:221:HIS:HE1	1.18	1.05
6:y:213:THR:HB	33:y:501:ADP:O2A	1.56	1.05
4:0:83:ASN:HA	4:0:161:LEU:HD13	1.37	1.05
4:0:198:LEU:HD11	4:0:240:CYS:SG	1.96	1.05
11:5:229:ILE:HD11	11:5:295:TYR:OH	1.55	1.05
18:AC:322:SER:O	18:AC:332:ALA:CB	2.05	1.05
1:I:223:ILE:HG13	1:I:347:ILE:HG21	1.08	1.04
1:I:227:PRO:HD2	1:I:355:LEU:HD21	1.39	1.04
4:M:226:TYR:CB	4:M:335:VAL:HG21	1.86	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
6:y:160:PRO:HG2	6:y:220:ALA:CB	1.88	1.04
3:z:148:VAL:CG2	3:z:167:PRO:CG	2.35	1.04
7:1:35:TRP:CZ3	12:6:273:LYS:HD2	1.90	1.04
13:7:95:TYR:O	13:7:99:LYS:HB2	1.57	1.04
2:H:247:GLN:HE21	2:H:247:GLN:N	1.55	1.04
2:H:284:ARG:CA	2:H:296:GLN:OE1	2.04	1.04
3:L:148:VAL:CG2	3:L:167:PRO:CG	2.35	1.04
4:M:142:ALA:O	4:M:145:LEU:N	1.89	1.04
6:K:226:ALA:CB	6:K:257:ASN:ND2	2.17	1.04
19:B:96:TYR:CZ	19:B:100:ASN:OD1	2.09	1.04
2:v:87:LEU:HD21	1:w:136:LEU:HA	1.33	1.04
2:v:284:ARG:CA	2:v:296:GLN:OE1	2.04	1.04
1:w:257:GLN:HE22	1:w:266:LEU:HG	1.22	1.04
5:x:189:TYR:OH	5:x:316:GLU:CG	2.05	1.04
3:z:363:VAL:HG23	3:z:364:GLN:H	1.17	1.04
4:0:374:ASN:C	4:0:414:GLU:HB2	1.82	1.04
10:4:337:ARG:HA	10:4:340:GLU:CD	1.83	1.04
12:6:476:PHE:O	12:6:480:ILE:HD12	1.52	1.04
16:AA:54:LEU:C	16:AA:85:THR:OG1	1.98	1.04
2:H:348:LEU:HD12	23:l:175:GLU:OE1	1.53	1.04
3:L:305:ASN:N	3:L:308:ALA:HB3	1.71	1.04
4:M:87:PRO:CB	4:M:155:LYS:HE2	1.85	1.04
4:M:249:LEU:CG	4:M:283:ILE:HG12	1.87	1.04
6:K:115:ILE:HD12	6:K:121:ARG:NH1	1.66	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:160:PRO:HG2	6:K:220:ALA:CB	1.88	1.04
11:R:229:ILE:CG1	11:R:295:TYR:CE1	2.39	1.04
2:v:247:GLN:HE21	2:v:247:GLN:N	1.55	1.04
1:w:313:LEU:HD12	1:w:340:ALA:CB	1.86	1.04
11:5:25:LEU:O	11:5:28:LEU:CG	2.06	1.04
15:9:98:MET:HE2	15:9:98:MET:HA	1.40	1.04
18:AC:309:GLU:O	18:AC:313:GLU:N	1.91	1.04
1:I:187:ILE:HD12	1:I:190:LEU:HD12	1.34	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
5:J:137:LEU:HD13	5:J:224:ILE:HD11	1.07	1.04
11:R:186:LEU:CA	11:R:201:PHE:HZ	1.70	1.04
25:X:170:GLN:OE1	3:z:372:ARG:CD	1.98	1.04
2:v:190:VAL:CG1	2:v:212:VAL:CG2	2.34	1.04
6:y:275:PHE:CZ	6:y:289:LEU:HD12	1.91	1.04
1:I:230:THR:HG21	1:I:353:PHE:CA	1.86	1.04
1:I:288:ASP:HB3	1:I:331:THR:CG2	1.88	1.04
2:H:220:THR:CG2	2:H:343:PHE:HB3	1.88	1.04
9:P:71:VAL:O	9:P:74:CYS:SG	2.16	1.04
11:R:250:LEU:HD22	11:R:257:ARG:HB3	1.08	1.04
2:v:254:ALA:O	2:v:258:ARG:HG2	1.54	1.04
5:x:31:LEU:HA	5:x:34:ILE:HD12	1.38	1.04
6:y:90:GLY:O	6:y:130:VAL:N	1.90	1.04
6:y:115:ILE:CD1	6:y:121:ARG:CZ	2.23	1.04
4:0:249:LEU:CG	4:0:283:ILE:HG12	1.87	1.04
10:4:253:TYR:CE1	10:4:319:ILE:HD11	1.91	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:170:LEU:HD13	1:I:269:GLU:HB3	1.32	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
5:J:160:GLU:CB	5:J:315:ILE:HD11	1.88	1.03
5:J:189:TYR:CZ	5:J:316:GLU:CB	2.39	1.03
6:K:267:ILE:HD13	6:K:309:MET:HB3	1.34	1.03
8:O:332:HIS:CG	8:O:332:HIS:O	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:Q:412:ASP:O	10:Q:416:ASN:OD1	1.76	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:140:ILE:O	11:R:143:TYR:CG	2.11	1.03
5:x:133:PRO:CG	5:x:237:MET:HE1	1.88	1.03
6:y:210:CYS:SG	6:y:335:LEU:CD2	2.46	1.03
3:z:69:PHE:CZ	3:z:83:CYS:SG	2.51	1.03
3:z:305:ASN:N	3:z:308:ALA:HB3	1.71	1.03
3:z:344:ARG:NE	33:z:401:ADP:O2'	1.91	1.03
10:4:157:LEU:HB2	10:4:166:LEU:HD12	1.38	1.03
10:4:258:LYS:CE	10:4:266:ASP:CB	2.36	1.03
10:4:339:ILE:HB	10:4:387:ILE:HD11	1.09	1.03
11:5:186:LEU:CA	11:5:201:PHE:HZ	1.70	1.03
1:I:227:PRO:CD	1:I:355:LEU:HD21	1.89	1.03
5:J:63:LEU:HD12	6:K:79:VAL:HG21	1.40	1.03
10:Q:157:LEU:HB2	10:Q:166:LEU:HD12	1.38	1.03
19:h:158:GLY:O	20:i:83:ARG:NH2	1.90	1.03
23:l:51:GLU:OE2	23:l:206:MET:HG2	1.59	1.03
2:v:157:ILE:HD13	2:v:263:MET:HG2	1.39	1.03
3:z:264:MET:SD	3:z:275:MET:CE	2.45	1.03
4:0:136:VAL:O	4:0:138:GLY:N	1.91	1.03
18:AC:792:ALA:HB2	18:AC:824:ALA:CB	1.86	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
5:J:273:MET:HE1	5:J:305:LEU:HD21	1.40	1.03
6:K:80:LYS:HB2	15:V:151:VAL:HG21	1.40	1.03
6:K:210:CYS:SG	6:K:335:LEU:CD2	2.46	1.03
10:Q:337:ARG:HA	10:Q:340:GLU:CD	1.83	1.03
11:R:225:TYR:OH	11:R:278:VAL:HG13	1.59	1.03
12:S:448:GLU:O	12:S:461:LYS:HB2	1.51	1.03
5:x:137:LEU:HD13	5:x:224:ILE:HD11	1.07	1.03
6:y:93:LEU:CD1	6:y:94:GLU:CG	2.35	1.03
3:z:143:ARG:HG2	3:z:147:GLU:OE2	1.57	1.03
4:0:142:ALA:O	4:0:145:LEU:N	1.89	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
10:4:412:ASP:O	10:4:416:ASN:OD1	1.76	1.03
18:AC:164:GLY:HA2	18:AC:167:ALA:CB	1.89	1.03
1:I:424:GLU:CA	1:I:428:TYR:HD2	1.70	1.03
2:H:218:PRO:HD3	2:H:429:TYR:HD2	1.15	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:309:GLU:O	18:Z:313:GLU:N	1.91	1.03
2:v:157:ILE:CG2	2:v:263:MET:SD	2.45	1.03
2:v:425:ALA:HB2	1:w:339:PRO:HB3	1.05	1.03
1:w:288:ASP:HB3	1:w:331:THR:CG2	1.88	1.03
5:x:63:LEU:HD12	6:y:79:VAL:HG21	1.40	1.03
5:x:160:GLU:CB	5:x:315:ILE:HD13	1.88	1.03
5:x:207:THR:HG23	5:x:209:CYS:SG	1.99	1.03
4:0:272:PHE:CD2	4:0:316:GLN:HB3	1.93	1.03
4:0:294:LYS:CA	4:0:339:ASP:OD1	2.07	1.03
8:2:371:ALA:HB2	13:7:340:ILE:HG23	1.37	1.03
9:3:71:VAL:O	9:3:74:CYS:SG	2.16	1.03
11:5:140:ILE:O	11:5:143:TYR:CG	2.11	1.03
1:I:115:ILE:HA	1:I:121:ALA:CB	1.88	1.03
3:L:143:ARG:HG2	3:L:147:GLU:OE2	1.57	1.03
6:K:90:GLY:O	6:K:130:VAL:N	1.90	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:w:187:ILE:HD12	1:w:190:LEU:HD12	1.34	1.03
1:w:187:ILE:CD1	1:w:194:ILE:CD1	2.37	1.03
6:y:80:LYS:HB2	15:9:151:VAL:HG21	1.40	1.03
9:3:46:THR:O	9:3:50:LEU:HD22	1.53	1.03
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
6:K:163:MET:HG2	6:K:221:HIS:HE1	1.18	1.02
8:O:225:LEU:CG	8:O:230:ARG:CG	2.37	1.02
18:Z:318:THR:O	18:Z:322:SER:N	1.92	1.02
2:v:220:THR:CG2	2:v:343:PHE:HB3	1.88	1.02
5:x:151:ILE:HG12	5:x:198:LEU:HD22	1.40	1.02
6:y:149:SER:H	6:y:150:SER:HA	1.01	1.02
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:401:GLU:HB3	1:I:422:SER:HB2	1.40	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
11:R:25:LEU:O	11:R:28:LEU:CG	2.06	1.02
1:w:144:LEU:CG	1:w:162:VAL:CG2	2.37	1.02
5:x:116:LEU:CD2	5:x:121:TYR:CD1	2.42	1.02
6:y:116:LEU:C	6:y:119:ILE:HD13	1.84	1.02
7:1:22:PHE:CB	13:7:121:LEU:HD21	1.89	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
9:3:279:PHE:CE2	9:3:364:ARG:HD2	1.94	1.02
1:I:144:LEU:HG	1:I:162:VAL:CG2	1.89	1.02
2:H:362:MET:HE2	2:H:364:VAL:HG12	1.37	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
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
2:v:87:LEU:CD2	1:w:136:LEU:HD23	1.88	1.02
1:w:115:ILE:HA	1:w:121:ALA:CB	1.88	1.02
1:w:144:LEU:CD1	1:w:162:VAL:CG2	2.37	1.02
3:z:145:LEU:CG	3:z:149:ILE:HD12	1.89	1.02
3:z:363:VAL:CG2	3:z:364:GLN:N	2.22	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
1:I:365:PHE:CZ	1:I:383:LEU:CD1	2.43	1.02
4:M:80:ILE:HG23	4:M:84:LYS:HG3	1.03	1.02
4:M:272:PHE:CD2	4:M:316:GLN:HB3	1.93	1.02
5:J:189:TYR:OH	5:J:316:GLU:CG	2.05	1.02
6:y:335:LEU:O	6:y:336:PRO:O	1.78	1.02
10:4:19:ASP:CB	10:4:55:SER:CB	2.38	1.02
10:4:297:ARG:CB	10:4:333:GLN:HB3	1.89	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:144:LEU:CG	1:I:162:VAL:CG2	2.37	1.02
1:I:287:ILE:CD1	1:I:331:THR:OG1	2.07	1.02
2:H:180:CYS:SG	2:H:183:GLN:CG	2.47	1.02
5:J:133:PRO:CG	5:J:237:MET:HE1	1.88	1.02
8:O:284:ARG:NH1	8:O:291:LEU:CD2	2.23	1.02
9:P:279:PHE:CE2	9:P:364:ARG:HD2	1.94	1.02
9:P:344:THR:HA	9:P:348:GLU:HB2	1.42	1.02
10:Q:297:ARG:HB3	10:Q:333:GLN:CB	1.89	1.02
11:R:27:SER:O	11:R:28:LEU:O	1.76	1.02
1:w:227:PRO:CD	1:w:355:LEU:HD21	1.89	1.02
1:w:227:PRO:HD2	1:w:355:LEU:HD21	1.39	1.02
5:x:338:LEU:HD21	5:x:383:PHE:CE2	1.95	1.02
6:y:116:LEU:O	6:y:119:ILE:CD1	2.07	1.02
6:y:164:TYR:HD1	6:y:222:HIS:HD2	1.08	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:4:302:PHE:CG	10:4:330:LEU:CD1	2.43	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:187:ILE:CD1	1:I:194:ILE:CD1	2.37	1.01
1:I:189:GLY:HA3	1:I:360:THR:HB	1.39	1.01
1:I:206:THR:O	1:I:208:PRO:HD2	1.59	1.01
2:H:218:PRO:HD3	2:H:429:TYR:CD2	1.95	1.01
4:M:422:GLU:HA	4:M:425:LEU:HB2	1.42	1.01
5:J:31:LEU:HA	5:J:34:ILE:HD12	1.38	1.01
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
14:U:43:TRP:HA	14:U:48:LEU:HD23	1.42	1.01
15:V:98:MET:HA	15:V:98:MET:HE2	1.40	1.01
2:v:394:MET:HG3	1:w:349:ARG:HH21	1.21	1.01
1:w:206:THR:O	1:w:208:PRO:HD2	1.59	1.01
1:w:230:THR:HG23	1:w:353:PHE:O	1.60	1.01
6:y:86:PRO:O	6:y:134:LYS:CE	2.08	1.01
6:y:125:LYS:HB3	6:y:126:PRO:HD3	1.03	1.01
3:z:198:VAL:HG11	3:z:203:ILE:HD11	1.02	1.01
3:z:327:ASP:CG	3:z:330:ALA:CB	2.32	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
4:0:314:LEU:CD2	4:0:342:LEU:HD23	1.90	1.01
1:I:102:LEU:CD1	2:H:87:LEU:CD1	2.38	1.01
3:L:344:ARG:NE	33:L:401:ADP:O2'	1.91	1.01
5:J:335:LYS:HA	11:R:173:ASP:CB	1.90	1.01
6:K:116:LEU:O	6:K:119:ILE:CD1	2.07	1.01
6:K:116:LEU:C	6:K:119:ILE:HD13	1.84	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
18:Z:164:GLY:HA2	18:Z:167:ALA:CB	1.89	1.01
1:w:144:LEU:HG	1:w:162:VAL:CG2	1.89	1.01
1:w:313:LEU:HD11	1:w:340:ALA:HB1	1.42	1.01
5:x:335:LYS:HA	11:5:173:ASP:CB	1.90	1.01
6:y:163:MET:CG	6:y:221:HIS:CE1	2.44	1.01
11:5:229:ILE:CD1	11:5:295:TYR:CZ	2.41	1.01
18:AC:271:MET:O	18:AC:273:ASN:N	1.92	1.01
1:I:287:ILE:HD13	1:I:331:THR:CG2	1.87	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:314:LEU:CD2	4:M:342:LEU:HD23	1.90	1.01
6:K:170:MET:O	6:K:174:LYS:CB	2.06	1.01
2:v:87:LEU:CD1	1:w:102:LEU:CD1	2.38	1.01
2:v:218:PRO:HD3	2:v:429:TYR:CD2	1.95	1.01
5:x:151:ILE:O	5:x:152:GLY:O	1.77	1.01
6:y:244:PRO:HA	6:y:291:GLU:HG3	1.38	1.01
3:z:198:VAL:HG21	3:z:218:MET:SD	2.01	1.01
9:3:67:LEU:HD13	9:3:106:GLN:CB	1.91	1.01
10:4:411:VAL:HG13	10:4:415:TYR:HE2	1.24	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
1:I:339:PRO:HB3	2:H:425:ALA:HB2	1.05	1.01
2:H:190:VAL:HG21	2:H:212:VAL:HG21	1.02	1.01
3:L:171:LEU:HD12	3:L:277:MET:O	1.61	1.01
4:M:96:LEU:HD11	4:M:145:LEU:HB2	1.41	1.01
4:M:137:ILE:HG22	4:M:140:VAL:HG23	1.38	1.01
5:J:207:THR:HG23	5:J:209:CYS:SG	1.99	1.01
6:K:162:VAL:CG1	6:K:214:MET:HE3	1.90	1.01
6:K:164:TYR:HD1	6:K:222:HIS:HD2	1.08	1.01
8:O:35:HIS:CB	16:W:14:GLU:CG	2.39	1.01
10:Q:396:THR:OG1	15:V:242:GLU:CG	2.08	1.01
2:v:180:CYS:SG	2:v:183:GLN:CG	2.47	1.01
5:x:160:GLU:CB	5:x:315:ILE:HD11	1.88	1.01
6:y:170:MET:O	6:y:174:LYS:CB	2.06	1.01
6:y:293:LEU:CD2	6:y:326:ARG:HH11	1.69	1.01
6:y:345:PHE:CG	6:y:360:LEU:CD2	2.44	1.01
3:z:138:LEU:C	3:z:140:GLU:H	1.69	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
10:4:253:TYR:CD1	10:4:319:ILE:CD1	2.43	1.01
15:9:265:MET:HG3	15:9:269:GLN:OE1	1.61	1.01
1:I:257:GLN:HE22	1:I:266:LEU:HG	1.22	1.01
2:H:161:VAL:HG12	2:H:263:MET:HE2	1.39	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
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
7:N:576:PRO:CG	7:N:611:ASN:HD22	1.74	1.01
14:U:22:HIS:CD2	14:U:35:VAL:HG12	1.95	1.01
2:v:394:MET:HG3	1:w:349:ARG:NH2	1.75	1.01
2:v:425:ALA:HB2	1:w:339:PRO:CB	1.84	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:287:ILE:HD13	1:w:331:THR:CG2	1.87	1.01
5:x:116:LEU:HD21	5:x:121:TYR:CD1	1.95	1.01
4:0:177:VAL:HG21	4:0:248:PHE:HD2	1.17	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
14:8:94:TRP:CE3	14:8:121:LEU:CD1	2.42	1.01
18:AC:412:ALA:HA	18:AC:447:ALA:HB2	1.43	1.01
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
1:I:349:ARG:NH2	2:H:394:MET:HG3	1.75	1.00
2:H:245:LEU:CD1	2:H:280:ILE:CD1	2.33	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
15:V:53:VAL:HG12	15:V:77:GLN:NE2	1.74	1.00
2:v:190:VAL:HG21	2:v:212:VAL:HG21	1.02	1.00
1:w:189:GLY:HA3	1:w:360:THR:HB	1.39	1.00
1:w:287:ILE:CD1	1:w:331:THR:OG1	2.07	1.00
6:y:93:LEU:HD23	6:y:102:ILE:HG22	1.39	1.00
6:y:154:LEU:O	6:y:155:THR:HG23	1.59	1.00
6:y:162:VAL:CG1	6:y:214:MET:HE3	1.90	1.00
6:y:248:ARG:HG3	6:y:295:GLN:HE22	1.25	1.00
6:y:354:LEU:HA	6:y:393:ILE:HG23	1.03	1.00
3:z:171:LEU:HD12	3:z:277:MET:O	1.61	1.00
4:0:96:LEU:HD11	4:0:145:LEU:HB2	1.41	1.00
10:4:396:THR:OG1	15:9:242:GLU:CG	2.08	1.00
14:8:22:HIS:CD2	14:8:35:VAL:HG12	1.95	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
2:H:161:VAL:HG13	2:H:260:LEU:HD12	1.41	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
4:M:217:ILE:HG13	4:M:218:GLN:N	1.69	1.00
5:J:133:PRO:HG2	5:J:237:MET:HE3	1.35	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
6:K:163:MET:CG	6:K:221:HIS:CE1	2.44	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)
12:S:169:LEU:HD11	12:S:206:VAL:CG2	1.92	1.00
2:v:209:PRO:HG2	2:v:339:ARG:HG3	1.41	1.00
1:w:290:ILE:HD13	1:w:309:MET:HE3	1.43	1.00
6:y:190:LEU:HD22	6:y:194:ILE:HD11	1.04	1.00
3:z:145:LEU:HG	3:z:149:ILE:HD11	1.42	1.00
3:z:145:LEU:HG	3:z:149:ILE:HD12	1.00	1.00
3:z:342:ASP:O	3:z:346:VAL:HG23	1.61	1.00
4:0:80:ILE:HG23	4:0:84:LYS:HG3	1.03	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
12:6:169:LEU:HD11	12:6:206:VAL:CG2	1.92	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
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
7:N:161:ASP:O	7:N:164:GLU:HB2	1.61	1.00
5:x:85:VAL:HG22	5:x:99:VAL:HG12	1.39	1.00
6:y:149:SER:HB2	6:y:250:VAL:HG22	1.42	1.00
11:5:259:TYR:CD1	11:5:260:LEU:N	2.30	1.00
15:9:53:VAL:HG12	15:9:77:GLN:NE2	1.74	1.00
15:9:64:ASP:HA	15:9:139:ARG:NH1	1.75	1.00
18:AC:272:LEU:O	18:AC:274:ASP:N	1.95	1.00
3:L:342:ASP:O	3:L:346:VAL:HG23	1.61	1.00
6:K:128:ALA:HB1	6:K:142:VAL:CG1	1.92	1.00
9:P:149:LEU:CD1	9:P:165:ILE:HD13	1.91	1.00
2:v:172:VAL:HG11	2:v:224:LEU:HD22	1.42	1.00
2:v:258:ARG:O	2:v:262:GLU:N	1.93	1.00
1:w:424:GLU:CA	1:w:428:TYR:HD2	1.70	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:125:LYS:HB3	6:K:126:PRO:HD3	1.03	1.00
3:z:331:ILE:CD1	3:z:367:PHE:CD1	2.45	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
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
1:I:423:LYS:HG3	1:I:427:LEU:HD12	1.39	1.00
3:L:327:ASP:CG	3:L:330:ALA:CB	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:v:111:TYR:CZ	2:v:125:LEU:CD2	2.39	1.00
5:x:169:VAL:O	5:x:172:PRO:HD3	1.60	1.00
1:I:284:ILE:HG22	1:I:287:ILE:HG23	1.44	0.99
2:H:258:ARG:HD3	2:H:305:GLN:HE22	1.27	0.99
1:I:233:THR:OG1	33:I:501:ADP:O2A	1.78	0.99
1:I:290:ILE:HD13	1:I:309:MET:HE3	1.43	0.99
3:L:303:LEU:CD2	3:L:339:ASN:HA	1.92	0.99
5:J:247:PHE:CE1	5:J:292:ILE:CG2	2.45	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
5:x:41:ASN:O	5:x:44:ARG:CB	2.09	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:207:HIS:CD2	1:I:210:TYR:OH	2.16	0.99
2:H:190:VAL:CG2	2:H:212:VAL:CG2	2.37	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
5:J:151:ILE:HD11	5:J:198:LEU:HD23	1.01	0.99
1:w:288:ASP:HB3	1:w:331:THR:HG22	1.42	0.99
1:w:401:GLU:HB3	1:w:422:SER:HB2	1.40	0.99
5:x:302:ASP:OD1	5:x:303:SER:N	1.95	0.99
4:0:314:LEU:HD21	4:0:342:LEU:CD2	1.92	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
1:w:200:SER:HB2	1:w:219:PRO:CG	1.91	0.99
11:5:201:PHE:HB3	11:5:223:THR:HG22	1.44	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
8:O:34:TRP:CB	16:W:17:ARG:HH12	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
14:U:266:ILE:CD1	15:V:284:LEU:HD22	1.92	0.99
15:V:64:ASP:HA	15:V:139:ARG:NH1	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:190:VAL:CG2	2:v:212:VAL:CG2	2.37	0.99
6:y:184:PRO:HG3	6:y:191:TYR:HH	1.18	0.99
8:2:35:HIS:CB	16:AA:14:GLU:CG	2.39	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
5:x:137:LEU:CD2	5:x:224:ILE:HD11	1.92	0.99
5:x:273:MET:HE1	5:x:305:LEU:HD21	1.40	0.99
3:z:138:LEU:HD13	3:z:141:GLN:OE1	1.61	0.99
4:0:137:ILE:HG21	4:0:145:LEU:HD11	1.45	0.99
12:6:487:HIS:O	12:6:491:VAL:HG23	1.63	0.99
1:I:398:ILE:HA	1:I:422:SER:OG	1.63	0.99
2:H:190:VAL:CB	2:H:212:VAL:HG21	1.93	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
6:y:100:THR:HG22	6:y:112:TYR:CE1	1.93	0.99
6:y:176:GLU:HG3	6:y:331:ILE:HD11	1.45	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
4:M:249:LEU:HD23	4:M:283:ILE:HG12	0.99	0.99
5:x:77:VAL:HB	5:x:86:LEU:CD1	1.93	0.99
10:4:302:PHE:HB2	10:4:330:LEU:HD13	1.42	0.99
19:h:132:ARG:NH1	25:n:123:THR:O	1.94	0.99
5:x:137:LEU:CD2	5:x:224:ILE:CD1	2.40	0.99
5:x:138:MET:HE1	5:x:143:VAL:CG2	1.92	0.99
3:z:176:PRO:O	4:0:344:ARG:HD3	1.60	0.99
8:2:34:TRP:CB	16:AA:17:ARG:HH12	1.75	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
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
5:x:373:GLU:HG2	5:x:375:ARG:CD	1.93	0.99
1:I:122:ILE:HD11	1:I:130:GLU:HB3	1.00	0.98
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
1:I:349:ARG:HH21	2:H:394:MET:HG3	1.21	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
10:Q:273:GLY:HA2	10:Q:277:LEU:CB	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:469:THR:HG21	14:U:250:TYR:CG	1.98	0.98
6:y:146:GLU:OE1	3:z:70:ILE:HD13	1.62	0.98
3:z:184:ALA:HB2	3:z:231:PHE:CZ	1.98	0.98
3:z:363:VAL:CG2	3:z:364:GLN:H	1.75	0.98
3:L:219:PHE:O	3:L:223:ARG:HG2	1.63	0.98
6:K:190:LEU:CD2	6:K:194:ILE:HD11	1.94	0.98
11:R:201:PHE:HB3	11:R:223:THR:HG22	1.44	0.98
2:v:258:ARG:HD3	2:v:305:GLN:HE22	1.27	0.98
2:v:302:LEU:HD11	2:v:306:LEU:HD22	1.45	0.98
3:z:219:PHE:O	3:z:223:ARG:HG2	1.63	0.98
11:5:142:PHE:CE1	11:5:180:LEU:HD23	1.99	0.98
1:I:313:LEU:HD11	1:I:340:ALA:HB1	1.42	0.98
4:M:137:ILE:HG21	4:M:145:LEU:HD11	1.45	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
11:R:259:TYR:CD1	11:R:260:LEU:N	2.30	0.98
2:v:302:LEU:O	2:v:306:LEU:HB2	1.63	0.98
6:y:90:GLY:C	6:y:130:VAL:HG22	1.88	0.98
3:z:148:VAL:HG22	3:z:167:PRO:HB3	1.40	0.98
13:7:296:PRO:O	13:7:299:MET:CG	2.11	0.98
2:H:209:PRO:HG2	2:H:339:ARG:HG3	1.41	0.98
3:L:138:LEU:HD13	3:L:141:GLN:OE1	1.61	0.98
5:J:114:VAL:HG12	5:J:126:ILE:CB	1.92	0.98
15:V:265:MET:HG3	15:V:269:GLN:OE1	1.61	0.98
5:x:160:GLU:HB2	5:x:315:ILE:HD13	1.41	0.98
3:z:227:PRO:HG3	3:z:272:ARG:HG2	1.43	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
9:3:344:THR:HA	9:3:348:GLU:CG	1.93	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
1:I:230:THR:HG22	1:I:353:PHE:CB	1.81	0.98
1:w:103:ARG:CG	1:w:160:ILE:CG2	2.41	0.98
5:x:247:PHE:CE1	5:x:292:ILE:HG22	1.98	0.98
3:z:303:LEU:CD2	3:z:339:ASN:HA	1.92	0.98
10:4:273:GLY:O	10:4:277:LEU:HB2	1.60	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:138:MET:HE1	5:J:143:VAL:CG2	1.92	0.98
5:J:377:HIS:NE2	11:R:206:SER:CB	2.26	0.98
1:w:387:LYS:HB2	1:w:390:LEU:HD23	1.41	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:302:LEU:HD11	2:H:306:LEU:HD22	1.45	0.98
6:K:90:GLY:C	6:K:130:VAL:HG22	1.88	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
6:y:91:GLN:HA	6:y:128:ALA:O	1.63	0.98
6:y:190:LEU:CD2	6:y:194:ILE:HD11	1.94	0.98
3:z:181:THR:HB	33:z:401:ADP:O2A	1.62	0.98
4:0:422:GLU:HA	4:0:425:LEU:HB2	1.42	0.98
8:2:35:HIS:CG	16:AA:14:GLU:CG	2.47	0.98
11:5:183:TYR:CE1	11:5:213:LEU:CD1	2.47	0.98
1:I:107:MET:HE3	1:I:160:ILE:HD12	1.43	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
8:O:35:HIS:CG	16:W:14:GLU:CG	2.47	0.98
15:V:146:ASP:OD2	15:V:149:GLN:HG2	1.63	0.98
32:g:214:MET:HE1	27:p:144:PRO:HB3	1.45	0.98
1:w:398:ILE:HA	1:w:422:SER:OG	1.63	0.98
1:w:409:GLU:OE1	1:w:411:ARG:NH2	1.95	0.98
5:x:247:PHE:CE1	5:x:292:ILE:CG2	2.45	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
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
1:I:182:GLU:O	1:I:241:ASN:ND2	1.97	0.98
2:H:86:THR:HA	2:H:89:SER:OG	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
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
2:v:174:TYR:HD2	2:v:184:ILE:HD13	1.28	0.98
5:x:151:ILE:HD11	5:x:198:LEU:HD23	1.01	0.98
5:x:160:GLU:HB3	5:x:315:ILE:HD11	1.01	0.98
6:y:184:PRO:CA	6:y:191:TYR:CE2	2.47	0.98
6:y:237:GLN:NE2	6:y:242:GLU:HG2	1.79	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
2:v:190:VAL:CB	2:v:212:VAL:HG21	1.93	0.98
1:w:284:ILE:HG22	1:w:287:ILE:HG23	1.44	0.98
5:x:85:VAL:CG2	5:x:99:VAL:HG12	1.92	0.98
5:x:377:HIS:NE2	11:5:206:SER:CB	2.26	0.98
3:z:123:SER:OG	3:z:196:LEU:HD22	1.64	0.98
3:z:238:ILE:CD1	3:z:257:LEU:CB	2.41	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
1:I:392:GLY:HA3	33:I:501:ADP:N7	1.79	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
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
11:R:142:PHE:CE1	11:R:180:LEU:HD23	1.99	0.97
1:w:122:ILE:HD11	1:w:130:GLU:HB3	1.00	0.97
1:w:207:HIS:CD2	1:w:210:TYR:OH	2.16	0.97
1:w:233:THR:OG1	33:w:501:ADP:O2A	1.78	0.97
6:y:93:LEU:HD11	6:y:94:GLU:CD	1.88	0.97
6:y:128:ALA:HB1	6:y:142:VAL:CG1	1.92	0.97
14:8:43:TRP:HA	14:8:48:LEU:HD23	1.42	0.97
10:Q:292:GLN:O	10:Q:296:ASN:OD1	1.82	0.97
5:x:114:VAL:HG12	5:x:126:ILE:HG23	1.47	0.97
4:0:373:MET:HE1	4:0:415:LEU:CD1	1.93	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
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
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
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
13:T:215:LEU:O	13:T:217:ALA:N	1.97	0.97
1:w:182:GLU:O	1:w:241:ASN:ND2	1.97	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:373:THR:HG22	1:w:413:LYS:HE2	1.46	0.97
1:w:392:GLY:HA3	33:w:501:ADP:N7	1.79	0.97
5:x:86:LEU:HD23	5:x:96:VAL:HG22	1.13	0.97
6:y:149:SER:H	6:y:150:SER:CA	1.75	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
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
1:w:275:GLU:HG3	1:w:322:ARG:NH1	1.80	0.97
6:y:184:PRO:HB3	6:y:191:TYR:CZ	1.99	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
2:v:103:ASN:HB3	2:v:136:GLU:OE2	1.65	0.97
2:v:161:VAL:HG21	2:v:259:GLU:HB2	1.42	0.97
6:y:95:ALA:HA	6:y:101:ALA:HA	1.46	0.97
1:I:387:LYS:HB2	1:I:390:LEU:HD23	1.41	0.97
2:H:102:ILE:CD1	2:H:120:LYS:CD	2.43	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
1:w:118:ASP:CG	1:w:120:HIS:NE2	2.22	0.97
1:w:144:LEU:HD11	1:w:162:VAL:HG22	1.40	0.97
5:x:114:VAL:HG12	5:x:126:ILE:CB	1.92	0.97
3:z:195:PHE:CE1	3:z:229:ILE:CG1	2.48	0.97
3:z:197:LYS:NZ	4:0:320:PHE:CZ	2.31	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
1:I:398:ILE:HG22	1:I:419:PHE:HD1	1.17	0.97
2:H:119:ALA:HB2	4:M:127:SER:O	1.64	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:247:PHE:CE1	5:J:292:ILE:HG22	1.98	0.97
6:K:93:LEU:HD11	6:K:94:GLU:CD	1.88	0.97
9:P:55:ARG:C	9:P:56:THR:HG23	1.89	0.97
2:v:112:ILE:HG12	2:v:122:VAL:CG2	1.95	0.97
1:w:106:PRO:HG3	5:x:121:TYR:CB	1.93	0.97
1:w:264:PRO:O	1:w:268:ARG:HG3	1.63	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:271:PHE:HZ	1:w:316:LEU:HD13	1.25	0.97
6:y:184:PRO:HA	6:y:191:TYR:HE2	1.21	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
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:84:LYS:CE	10:Q:88:LEU:CD2	2.43	0.97
10:Q:302:PHE:CG	10:Q:330:LEU:HD12	1.99	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
2:v:258:ARG:CD	2:v:305:GLN:HE22	1.78	0.97
5:x:167:LEU:HD11	5:x:174:LEU:HD12	1.47	0.97
5:x:373:GLU:HG2	5:x:375:ARG:HD2	1.47	0.97
3:z:104:THR:HG21	15:9:50:PRO:HB3	1.46	0.97
3:L:363:VAL:CG2	3:L:364:GLN:N	2.22	0.97
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
24:G:166:GLN:HE22	4:0:386:ARG:CB	1.76	0.97
2:v:102:ILE:CD1	2:v:120:LYS:CD	2.43	0.97
1:w:271:PHE:HZ	1:w:316:LEU:CD1	1.78	0.97
5:x:85:VAL:HG22	5:x:99:VAL:CG1	1.95	0.97
6:y:147:ALA:HB1	6:y:249:ASP:OD2	1.65	0.97
3:z:258:MET:CA	3:z:261:LEU:HD12	1.94	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
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
4:M:373:MET:HE1	4:M:415:LEU:CD1	1.93	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
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
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
2:v:90:GLU:HA	2:v:93:LEU:HD23	1.46	0.96
2:v:245:LEU:CD1	2:v:280:ILE:CD1	2.33	0.96
12:6:469:THR:HG21	14:8:250:TYR:CG	1.98	0.96
14:8:215:VAL:O	14:8:220:LEU:CB	2.12	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:102:LEU:HD11	2:H:87:LEU:CD1	1.94	0.96
1:I:118:ASP:CG	1:I:120:HIS:NE2	2.22	0.96
2:H:258:ARG:CD	2:H:305:GLN:HE22	1.78	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
19:B:96:TYR:CE2	19:B:100:ASN:OD1	2.18	0.96
2:v:86:THR:HA	2:v:89:SER:OG	1.63	0.96
3:z:148:VAL:HG22	3:z:167:PRO:CG	1.95	0.96
11:5:50:MET:CE	11:5:53:TYR:HE2	1.73	0.96
11:5:186:LEU:HD11	11:5:287:LEU:CG	1.94	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
27:p:187:ARG:HB3	27:p:188:PRO:HD3	1.46	0.96
1:w:107:MET:HE3	1:w:160:ILE:CD1	1.95	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
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
2:v:119:ALA:HB2	4:0:127:SER:O	1.64	0.96
1:w:290:ILE:CD1	1:w:309:MET:HE3	1.95	0.96
5:x:151:ILE:CD1	5:x:198:LEU:HB3	1.95	0.96
6:y:167:ILE:HD13	6:y:218:ALA:HB2	1.46	0.96
3:z:126:ASP:OD1	4:0:320:PHE:CD2	2.18	0.96
7:1:419:ALA:HB2	7:1:449:ILE:HD13	1.46	0.96
3:L:258:MET:CA	3:L:261:LEU:HD12	1.94	0.96
5:J:273:MET:HE2	5:J:293:MET:SD	2.06	0.96
6:K:293:LEU:HD22	6:K:326:ARG:HH11	1.15	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
2:v:333:ARG:HG2	2:v:334:PRO:CD	1.94	0.96
1:w:287:ILE:HD13	1:w:331:THR:HG21	1.48	0.96
6:y:125:LYS:CB	6:y:126:PRO:HD3	1.94	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
3:L:138:LEU:C	3:L:140:GLU:H	1.69	0.96
3:L:215:ILE:CD1	3:L:260:LEU:CD2	2.43	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:217:ILE:HG13	4:M:218:GLN:H	1.28	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
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
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
1:I:107:MET:HE3	1:I:160:ILE:CD1	1.95	0.96
1:I:271:PHE:HZ	1:I:316:LEU:CD1	1.78	0.96
3:L:322:LYS:CB	3:L:326:ILE:HD11	1.95	0.96
6:K:190:LEU:HD22	6:K:194:ILE:CD1	1.96	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
2:v:334:PRO:HG2	2:v:334:PRO:O	1.66	0.96
1:w:283:PHE:CD1	1:w:328:ILE:HG22	1.99	0.96
6:y:93:LEU:HB3	6:y:102:ILE:O	1.65	0.96
6:y:164:TYR:CD1	6:y:222:HIS:HD2	1.83	0.96
3:z:322:LYS:CD	3:z:326:ILE:HD11	1.94	0.96
9:3:55:ARG:C	9:3:56:THR:HG23	1.89	0.96
1:I:271:PHE:HZ	1:I:316:LEU:HD13	1.25	0.96
2:H:103:ASN:HB3	2:H:136:GLU:OE2	1.65	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
2:v:87:LEU:HD22	1:w:136:LEU:HD23	0.96	0.96
2:v:87:LEU:HD12	1:w:102:LEU:HD11	1.46	0.96
1:w:107:MET:HE3	1:w:160:ILE:HD12	1.43	0.96
5:x:114:VAL:HG12	5:x:126:ILE:CG2	1.96	0.96
5:x:133:PRO:CG	5:x:237:MET:CE	2.44	0.96
6:y:354:LEU:CA	6:y:393:ILE:HG23	1.96	0.96
12:6:231:LEU:CB	12:6:250:LEU:HD11	1.96	0.96
3:L:195:PHE:CE1	3:L:229:ILE:CG1	2.48	0.96
6:K:394:VAL:HG12	6:K:398:ASP:HB2	1.48	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
2:v:87:LEU:CD1	1:w:102:LEU:HD11	1.94	0.96
1:w:356:PRO:HB3	1:w:361:LYS:HG3	1.47	0.96
1:w:398:ILE:CG2	1:w:419:PHE:HD1	1.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:369:THR:HB	1:I:374:LEU:HD13	0.99	0.96
2:H:121:PHE:HA	4:M:88:TYR:O	1.66	0.96
2:H:284:ARG:O	2:H:285:PHE:O	1.84	0.96
3:L:331:ILE:HD11	3:L:367:PHE:CG	2.01	0.96
10:Q:249:THR:HG23	10:Q:253:TYR:HE2	1.30	0.96
1:w:424:GLU:HA	1:w:428:TYR:CE2	2.00	0.96
5:x:46:GLN:O	5:x:50:ASN:N	1.98	0.96
5:x:273:MET:HE2	5:x:293:MET:SD	2.06	0.96
15:9:309:PHE:O	15:9:310:LYS:NZ	1.98	0.96
1:I:206:THR:C	1:I:208:PRO:HD2	1.91	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
2:H:112:ILE:HG12	2:H:122:VAL:CG2	1.95	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
20:i:198:PHE:HE2	20:i:202:MET:HA	1.31	0.95
2:v:111:TYR:CE1	2:v:125:LEU:HD22	1.91	0.95
1:w:369:THR:HB	1:w:374:LEU:HD13	0.99	0.95
6:y:107:THR:HG22	3:z:77:PRO:HG3	1.47	0.95
6:y:248:ARG:HG3	6:y:295:GLN:NE2	1.81	0.95
3:z:253:ILE:HD11	4:0:261:ILE:HD11	1.46	0.95
3:z:257:LEU:O	3:z:261:LEU:CD1	2.14	0.95
3:z:331:ILE:HD11	3:z:367:PHE:CG	2.01	0.95
4:M:237:ALA:CB	4:M:284:PHE:CE2	2.49	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
5:x:147:THR:CG2	5:x:150:MET:HE3	1.96	0.95
5:x:235:PHE:HE1	5:x:276:LEU:HD22	0.95	0.95
3:z:322:LYS:CB	3:z:326:ILE:HD11	1.95	0.95
13:7:123:LEU:CG	13:7:140:GLN:O	2.14	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
3:L:173:TYR:CE1	3:L:388:PRO:HD3	2.02	0.95
5:J:114:VAL:HG12	5:J:126:ILE:HG23	1.47	0.95
5:J:147:THR:CG2	5:J:150:MET:HE3	1.96	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
11:R:241:ILE:HD11	11:R:260:LEU:CD2	1.97	0.95
2:v:355:PHE:CD1	2:v:385:ILE:CG2	2.49	0.95
6:y:411:GLU:O	6:y:412:GLN:HB2	1.67	0.95
9:3:153:LYS:CE	9:3:162:ALA:HA	1.97	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
3:z:215:ILE:CD1	3:z:260:LEU:CD2	2.43	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
1:I:132:TYR:HE2	2:H:153:LEU:HD21	1.32	0.95
3:L:251:ARG:NH1	6:K:274:ARG:O	2.00	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
5:J:162:LYS:HG3	5:J:166:GLU:OE1	1.66	0.95
10:Q:76:PHE:CB	10:Q:80:ILE:CB	2.44	0.95
2:v:121:PHE:HA	4:0:88:TYR:O	1.66	0.95
1:w:106:PRO:CB	5:x:97:VAL:HG12	1.97	0.95
6:y:273:LYS:O	6:y:275:PHE:N	1.99	0.95
6:y:274:ARG:O	3:z:251:ARG:NH1	2.00	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
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:v:245:LEU:HD12	2:v:280:ILE:HD13	1.35	0.95
6:y:345:PHE:CG	6:y:360:LEU:HD21	2.02	0.95
6:y:360:LEU:HD12	6:y:363:TYR:CD2	2.02	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
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
2:v:102:ILE:HD11	2:v:120:LYS:CD	1.97	0.95
4:M:198:LEU:CD1	4:M:240:CYS:SG	2.54	0.95
6:K:149:SER:H	6:K:150:SER:HA	1.01	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:w:206:THR:C	1:w:208:PRO:HD2	1.91	0.95
1:w:366:GLN:O	1:w:370:SER:HB3	1.66	0.95
5:x:232:ARG:HE	5:x:279:GLN:HE22	1.11	0.95
5:x:232:ARG:NE	5:x:279:GLN:HE22	1.64	0.95
3:z:253:ILE:HG13	4:0:308:ARG:HH22	1.29	0.95
4:0:198:LEU:CD1	4:0:240:CYS:SG	2.54	0.95
18:AC:792:ALA:HB2	18:AC:824:ALA:HB2	0.97	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
6:K:403:TYR:C	6:K:407:ILE:HD13	1.91	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
6:y:359:ASP:O	6:y:361:GLU:N	2.00	0.95
3:z:238:ILE:CD1	3:z:257:LEU:HB2	1.95	0.95
11:5:186:LEU:CD1	11:5:287:LEU:HG	1.96	0.95
1:I:106:PRO:CB	5:J:97:VAL:HG12	1.97	0.95
1:I:290:ILE:CD1	1:I:309:MET:HE3	1.95	0.95
4:M:169:ASP:CB	4:M:172:VAL:HG23	1.95	0.95
6:K:273:LYS:O	6:K:275:PHE:N	1.99	0.95
20:C:198:PHE:HZ	20:C:206:ASN:HB3	1.25	0.95
2:v:365:GLU:OE1	2:v:405:THR:HA	1.67	0.95
5:x:321:ASN:O	5:x:325:ARG:HG3	1.67	0.95
6:y:391:ARG:NH1	6:y:395:LEU:HG	1.82	0.95
9:3:107:GLN:C	9:3:141:GLU:OE2	2.10	0.95
3:L:61:LEU:HD12	3:L:78:ARG:HG2	1.48	0.94
3:L:238:ILE:CD1	3:L:257:LEU:HB2	1.95	0.94
3:L:253:ILE:HG13	4:M:308:ARG:HH22	1.29	0.94
6:K:93:LEU:HB3	6:K:102:ILE:O	1.65	0.94
6:K:248:ARG:HG3	6:K:295:GLN:NE2	1.81	0.94
10:Q:411:VAL:CG1	10:Q:415:TYR:HE2	1.79	0.94
2:v:161:VAL:HG21	2:v:259:GLU:HB3	1.48	0.94
2:v:209:PRO:CG	2:v:339:ARG:HG3	1.97	0.94
9:3:66:ILE:O	9:3:70:VAL:HG12	1.66	0.94
3:L:199:VAL:HG11	4:M:315:ASN:HD21	1.32	0.94
3:L:257:LEU:O	3:L:261:LEU:CD1	2.14	0.94
6:K:95:ALA:HA	6:K:101:ALA:HA	1.46	0.94
6:K:164:TYR:CD1	6:K:222:HIS:CD2	2.56	0.94
9:P:274:VAL:CG1	9:P:287:VAL:HG22	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:476:PHE:O	12:S:480:ILE:HD13	1.65	0.94
3:z:201:SER:HB3	4:0:312:GLU:OE1	1.66	0.94
3:z:238:ILE:HD11	3:z:257:LEU:CB	1.97	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
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
4:0:248:PHE:CZ	4:0:250:LYS:HB3	2.01	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
12:S:480:ILE:HB	13:T:342:TYR:OH	1.68	0.94
13:T:123:LEU:CG	13:T:140:GLN:O	2.14	0.94
2:v:153:LEU:HD21	1:w:132:TYR:HE2	1.32	0.94
5:x:39:SER:CB	6:y:54:LEU:HD13	1.97	0.94
6:y:403:TYR:C	6:y:407:ILE:HD13	1.91	0.94
3:z:56:ILE:O	3:z:100:LEU:N	2.00	0.94
10:4:337:ARG:HA	10:4:340:GLU:CG	1.98	0.94
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
1:w:200:SER:O	1:w:219:PRO:CD	2.14	0.94
6:y:345:PHE:HD2	6:y:360:LEU:HG	1.20	0.94
15:9:237:HIS:ND1	15:9:298:GLN:OE1	2.00	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
27:b:144:PRO:HB3	32:u:214:MET:HE1	1.48	0.94
1:w:144:LEU:CD1	1:w:162:VAL:HG22	1.97	0.94
1:w:398:ILE:HG22	1:w:419:PHE:HD1	1.17	0.94
6:y:267:ILE:HD13	6:y:309:MET:CB	1.98	0.94
6:y:345:PHE:CE2	6:y:360:LEU:HD11	2.01	0.94
3:L:201:SER:HB3	4:M:312:GLU:OE1	1.66	0.94
4:M:137:ILE:HD13	4:M:145:LEU:CD1	1.97	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
2:v:190:VAL:CG1	2:v:212:VAL:HG23	1.98	0.94
5:x:162:LYS:HG3	5:x:166:GLU:OE1	1.66	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
2:H:174:TYR:HE2	2:H:184:ILE:HG23	1.30	0.94
3:L:198:VAL:HG11	3:L:203:ILE:CD1	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:411:GLU:O	6:K:412:GLN:HB2	1.65	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
11:R:360:ASP:OD2	12:S:466:ILE:HG21	1.66	0.94
13:T:89:GLN:CG	13:T:115:GLU:OE1	2.14	0.94
15:V:237:HIS:ND1	15:V:298:GLN:OE1	2.00	0.94
2:v:102:ILE:HD11	2:v:120:LYS:HD3	1.50	0.94
2:v:255:ARG:O	2:v:259:GLU:CG	2.15	0.94
2:v:284:ARG:O	2:v:285:PHE:O	1.84	0.94
5:x:143:VAL:HG11	5:x:213:ARG:HD3	0.96	0.94
6:y:116:LEU:HB2	6:y:119:ILE:HD11	1.49	0.94
6:y:164:TYR:CD1	6:y:222:HIS:CD2	2.56	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
9:3:453:HIS:O	9:3:454:ASN:ND2	1.99	0.94
10:4:105:GLN:O	10:4:109:LEU:CG	2.14	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: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:23:PHE:HE1	14:U:28:LYS:O	1.51	0.94
14:U:122:VAL:HG22	14:U:137:ALA:HA	1.50	0.94
1:w:284:ILE:CG2	1:w:287:ILE:HG23	1.98	0.94
3:z:198:VAL:HG11	3:z:203:ILE:CD1	1.97	0.94
10:4:203:PRO:HB2	10:4:204:PRO:HD3	1.50	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
9:P:107:GLN:C	9:P:141:GLU:OE2	2.10	0.94
13:T:330:ILE:N	13:T:331:PRO:CD	2.31	0.94
6:y:125:LYS:CB	6:y:126:PRO:CD	2.46	0.94
3:z:148:VAL:CG2	3:z:167:PRO:HB3	1.98	0.94
3:L:129:ASN:O	3:L:189:SER:HB2	1.68	0.93
4:M:272:PHE:CE2	4:M:316:GLN:HB2	2.03	0.93
6:K:100:THR:HG22	6:K:112:TYR:CE1	2.03	0.93
9:P:444:HIS:HE1	14:U:138:TYR:OH	1.44	0.93
3:z:173:TYR:CE1	3:z:388:PRO:HD3	2.02	0.93
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:209:PRO:CG	2:H:339:ARG:HG3	1.97	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
6:K:210:CYS:SG	6:K:334:PRO:O	2.26	0.93
6:K:391:ARG:NH1	6:K:395:LEU:HG	1.82	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
2:v:174:TYR:HE2	2:v:184:ILE:HG23	1.30	0.93
2:v:299:MET:CE	2:v:328:ASP:CB	2.46	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
1:I:144:LEU:CG	1:I:162:VAL:HG22	1.99	0.93
10:Q:61:GLY:O	10:Q:64:ALA:N	2.00	0.93
2:v:125:LEU:CA	2:v:149:ILE:HB	1.98	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
2:H:255:ARG:O	2:H:259:GLU:CG	2.15	0.93
4:M:225:MET:CG	4:M:354:PHE:CE2	2.50	0.93
4:M:314:LEU:HD21	4:M:342:LEU:HD23	1.46	0.93
5:J:39:SER:CB	6:K:54:LEU:HD13	1.97	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
1:I:315:GLN:HE22	1:I:322:ARG:HH21	1.17	0.93
2:H:351:ARG:CZ	2:H:377:CYS:O	2.17	0.93
3:L:56:ILE:O	3:L:100:LEU:N	2.00	0.93
5:J:320:PRO:HG3	5:J:355:SER:HA	1.49	0.93
5:J:321:ASN:O	5:J:325:ARG:HG3	1.67	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
15:V:240:HIS:O	15:V:244:VAL:CG2	2.16	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: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
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
4:M:376:SER:HB2	4:M:377:PRO:CD	1.97	0.93
10:4:163:LYS:CD	10:4:200:ILE:HG21	1.98	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:9:259:VAL:O	15:9:263:ASP:HB2	1.69	0.93
1:I:356:PRO:HB3	1:I:361:LYS:HG3	1.47	0.93
4:M:89:LEU:CD1	4:M:128:THR:HG23	1.99	0.93
4:M:272:PHE:CE2	4:M:316:GLN:CB	2.52	0.93
6:K:345:PHE:CE2	6:K:360:LEU:CG	2.52	0.93
10:Q:203:PRO:HB2	10:Q:204:PRO:HD3	1.50	0.93
2:v:161:VAL:HG11	2:v:263:MET:SD	2.08	0.93
6:y:93:LEU:HD12	6:y:94:GLU:CG	1.99	0.93
6:y:149:SER:N	6:y:150:SER:CA	2.31	0.93
4:0:89:LEU:CD1	4:0:128: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
15:V:306:THR:C	15:V:310:LYS:HE2	1.93	0.93
23:F:20:ARG:HB3	4:0:435:LEU:CD1	1.99	0.93
3:z:331:ILE:HD13	3:z:367:PHE:CD1	2.04	0.93
7:1:419:ALA:CB	7:1:449:ILE:CD1	2.47	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
1:w:387:LYS:CB	1:w:390:LEU:CD2	2.47	0.93
5:x:41:ASN:C	5:x:44:ARG:HB2	1.93	0.93
5:x:67:GLN:CA	6:y:136:SER:OG	2.17	0.93
6:y:164:TYR:HD1	6:y:222:HIS:CD2	1.87	0.93
6:y:391:ARG:HH12	6:y:395:LEU:HG	1.34	0.93
6:y:406:VAL:O	6:y:408:LYS:CG	2.17	0.93
3:z:66:GLU:HB3	3:z:89:LYS:HD3	1.50	0.93
12:6:476:PHE:O	12:6:480:ILE:HD13	1.65	0.93
15:9:306:THR:C	15:9:310:LYS:HE2	1.93	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
1:w:230:THR:HG22	1:w:353:PHE:CB	1.81	0.93
1:w:373:THR:CG2	1:w:413:LYS:HE2	1.98	0.93
6:y:145:PRO:CG	6:y:256:GLU:HG3	1.99	0.93
6:y:190:LEU:HD22	6:y:194:ILE:CD1	1.96	0.93
6:y:233:SER:HB3	3:z:259:GLU:OE2	1.68	0.93
4:0:272:PHE:CE2	4:0:316:GLN:CB	2.52	0.93
4:0:435:LEU:HD21	4:0:438:TYR:CE1	2.04	0.93
10:4:155:ARG:HA	10:4:158:LYS:CG	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
23:F:18:GLU:OE2	4:0:431:LYS:CD	2.17	0.92
25:X:170:GLN:NE2	3:z:372:ARG:HD2	1.84	0.92
6:y:345:PHE:CD2	6:y:360:LEU:HD21	2.03	0.92
4:0:80:ILE:HG22	4:0:84:LYS:HD2	1.48	0.92
4:0:225:MET:HG2	4:0:354:PHE:HE2	1.21	0.92
1:I:387:LYS:CB	1:I:390:LEU:CD2	2.47	0.92
2:H:299:MET:CE	2:H:328:ASP:CB	2.46	0.92
2:H:413:VAL:HG13	2:H:417:ILE:HD12	1.50	0.92
4:M:88:TYR:HE1	4:M:161:LEU:HD12	1.34	0.92
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
8:O:35:HIS:CB	16:W:14:GLU:OE2	2.17	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
20:i:198:PHE:CE2	20:i:202:MET:HA	2.04	0.92
6:y:149:SER:O	6:y:230:VAL:HG22	1.68	0.92
6:y:210:CYS:SG	6:y:334:PRO:O	2.26	0.92
6:y:394:VAL:HG12	6:y:398:ASP:HB2	1.48	0.92
7:1:35:TRP:HH2	12:6:273:LYS:CD	1.81	0.92
8:2:35:HIS:CB	16:AA:14:GLU:OE2	2.17	0.92
15:9:237:HIS:CE1	15:9:298:GLN:OE1	2.22	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
3:L:66:GLU:HB3	3:L:89:LYS:HD3	1.50	0.92
15:V:35:SER:HB3	15:V:213:GLU:OE2	1.70	0.92
1:w:144:LEU:CG	1:w:162:VAL:HG22	1.99	0.92
1:w:223:ILE:CD1	1:w:347:ILE:CG2	2.48	0.92
5:x:86:LEU:CD2	5:x:96:VAL:HG23	1.98	0.92
5:x:320:PRO:HG3	5:x:355:SER:HA	1.49	0.92
6:y:103:VAL:HG11	6:y:139:LEU:HD21	1.50	0.92
6:y:248:ARG:HB3	6:y:252:ARG:HH21	1.34	0.92
3:z:101:ASP:O	3:z:105:LEU:HD22	1.68	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:248:PHE:CD1	8:2:272:ILE:HG13	2.03	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
27:p:187:ARG:HB3	27:p:188:PRO:HD2	1.49	0.92
2:v:347:ASP:O	2:v:351:ARG:NH1	2.02	0.92
3:z:199:VAL:HG11	4:0:315:ASN:HD21	1.32	0.92
3:z:325:GLU:OE1	3:z:364:GLN:HG2	1.70	0.92
11:5:216:TYR:O	11:5:220:VAL:HG23	1.69	0.92
1:I:284:ILE:CG2	1:I:287:ILE:HG23	1.98	0.92
2:H:353:HIS:O	2:H:357:ILE:HG13	1.70	0.92
3:L:195:PHE:CD1	3:L:229:ILE:CG2	2.52	0.92
5:J:67:GLN:CA	6:K:136:SER:OG	2.17	0.92
10:Q:84:LYS:HE3	10:Q:88:LEU:HD23	1.49	0.92
20:i:204:GLU:OE2	20:i:226:LYS:CG	2.17	0.92
2:v:190:VAL:CG1	2:v:212:VAL:HG21	1.98	0.92
2:v:353:HIS:O	2:v:357:ILE:HG13	1.70	0.92
2:v:423:PHE:HB3	1:w:342:ILE:HG21	1.50	0.92
1:w:204:PRO:O	1:w:208:PRO:HB3	1.70	0.92
5:x:187:LEU:HD22	5:x:311:ILE:HD13	1.51	0.92
6:y:394:VAL:HG13	6:y:398:ASP:HB3	1.49	0.92
4:0:373:MET:HE3	4:0:415:LEU:HD11	1.50	0.92
1:I:232:LYS:NZ	1:I:332:ASN:HD22	1.67	0.92
2:H:351:ARG:NH2	2:H:374:ALA:O	2.02	0.92
5:J:41:ASN:C	5:J:44:ARG:HB2	1.93	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
1:w:144:LEU:CD1	1:w:162:VAL:HG23	1.99	0.92
1:w:275:GLU:HG3	1:w:322:ARG:HH11	1.29	0.92
1:w:315:GLN:HE22	1:w:322:ARG:HH21	1.17	0.92
2:H:83:ASP:HA	2:H:86:THR:OG1	1.70	0.92
2:H:102:ILE:HD11	2:H:120:LYS:HD3	1.50	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
5:J:147:THR:HG23	5:J:150:MET:HE3	1.52	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
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
6:y:345:PHE:CE2	6:y:360:LEU:CG	2.52	0.92
3:z:257:LEU:O	3:z:261:LEU:HD12	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:264:MET:CE	3:z:275:MET:HE1	1.99	0.92
14:8:22:HIS:HD2	14:8:35:VAL:CG1	1.63	0.92
3:L:51:GLN:O	3:L:53:VAL:HG23	1.70	0.92
4:M:80:ILE:CG2	4:M:84:LYS:CG	2.42	0.92
4:M:373:MET:CE	4:M:415:LEU:CD1	2.48	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
1:w:225:TYR:HA	1:w:331:THR:O	1.70	0.92
5:x:298:ILE:HG23	5:x:301:LEU:HD21	1.52	0.92
3:z:51:GLN:O	3:z:53:VAL:HG23	1.70	0.92
3:z:129:ASN:O	3:z:189:SER:HB2	1.68	0.92
3:z:215:ILE:CD1	3:z:260:LEU:HD21	2.00	0.92
3:z:303:LEU:HD22	3:z:339:ASN:CA	1.99	0.92
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
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
6:K:116:LEU:HB2	6:K:119:ILE:HD11	1.49	0.92
3:z:195:PHE:CD1	3:z:229:ILE:CG2	2.52	0.92
4:0:88:TYR:HE1	4:0:161:LEU:HD12	1.34	0.92
14:8:79:TYR:CE1	14:8:83:LYS:HE2	2.04	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
5:J:189:TYR:CE2	5:J:316:GLU:HG3	2.03	0.92
10:Q:48:GLN:O	10:Q:52:GLU:N	2.02	0.92
10:Q:155:ARG:HA	10:Q:158:LYS:CG	1.99	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
5:x:307:ARG:NH1	5:x:307:ARG:HB3	1.83	0.92
6:y:133:HIS:CE1	6:y:136:SER:CB	2.52	0.92
3:z:61:LEU:HD12	3:z:78:ARG:HG2	1.48	0.92
3:z:143:ARG:HG3	3:z:147:GLU:OE2	1.67	0.92
3:z:198:VAL:CG1	3:z:203:ILE:CD1	2.48	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:H:365:GLU:OE1	2:H:405:THR:HA	1.67	0.91
3:L:303:LEU:HD22	3:L:339:ASN:CA	1.99	0.91
6:K:345:PHE:CE2	6:K:360:LEU:HG	2.05	0.91
6:K:394:VAL:HG13	6:K:398:ASP:CG	1.95	0.91
5:x:137:LEU:HD11	5:x:220:VAL:HG11	1.52	0.91
5:x:247:PHE:CD1	5:x:292:ILE:HG22	2.06	0.91
6:y:394:VAL:HG13	6:y:398:ASP:CG	1.95	0.91
3:z:350:ALA:CB	3:z:366:ASP:O	2.19	0.91
3:z:352:MET:O	3:z:356:ARG:HG3	1.69	0.91
12:6:198:GLN:CB	12:6:203:LEU:HD23	1.99	0.91
1:I:225:TYR:HA	1:I:331:THR:O	1.70	0.91
4:M:188:ILE:HG22	4:M:189:GLY:H	1.33	0.91
6:K:160:PRO:HG2	6:K:220:ALA:HB3	0.93	0.91
6:K:162:VAL:HG11	6:K:214:MET:HE3	1.51	0.91
10:Q:82:LYS:HB3	10:Q:122:ARG:NH2	1.86	0.91
14:8:23:PHE:CD2	14:8:126:VAL:CG2	2.52	0.91
2:H:191:VAL:HG11	2:H:229:VAL:HG11	1.51	0.91
3:L:101:ASP:O	3:L:105:LEU:HD22	1.68	0.91
6:K:406:VAL:O	6:K:408:LYS:CG	2.17	0.91
5:x:232:ARG:HE	5:x:279:GLN:NE2	1.68	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
3:L:200:SER:HB3	3:L:234:GLU:O	1.70	0.91
3:L:264:MET:HE1	3:L:277:MET:CE	2.01	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
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
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
5:x:194:THR:O	33:x:501:ADP:N7	2.03	0.91
3:z:317:ALA:HB2	3:z:347:CYS:SG	2.09	0.91
9:3:274:VAL:HG11	9:3:287:VAL:HG22	1.51	0.91
2:H:190:VAL:CG1	2:H:212:VAL:HG23	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
2:v:245:LEU:HD12	2:v:280:ILE:HG12	1.49	0.91
1:w:232:LYS:NZ	1:w:332:ASN:HD22	1.67	0.91
5:x:377:HIS:CD2	11:5:206:SER:HB2	2.05	0.91
6:y:345:PHE:CE2	6:y:360:LEU:HG	2.05	0.91
3:z:322:LYS:CG	3:z:326:ILE:HD11	2.01	0.91
9:3:448:LYS:CE	14:8:154:THR:OG1	2.18	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
10:Q:397:TYR:CD2	11:R:365:GLN:CD	2.49	0.91
1:I:136:LEU:HA	2:H:87:LEU:CD2	2.00	0.91
3:L:198:VAL:CG1	3:L:203:ILE:CD1	2.48	0.91
5:J:338:LEU:HD22	5:J:342:ILE:CD1	2.01	0.91
6:K:64:GLU:O	6:K:68:LEU:CD1	2.19	0.91
6:K:149:SER:O	6:K:230:VAL:HG22	1.68	0.91
9:P:448:LYS:CE	14:U:154:THR:OG1	2.18	0.91
2:v:87:LEU:CD2	1:w:136:LEU:HA	2.00	0.91
1:w:234:LEU:CD1	33:w:501:ADP:C2	2.53	0.91
5:x:150:MET:O	5:x:151:ILE:CG1	2.18	0.91
3:z:264:MET:HE1	3:z:277:MET:CE	2.01	0.91
4:0:169:ASP:HB3	4:0:172:VAL:HG23	1.50	0.91
14:8:266:ILE:HD11	15:9:284:LEU:HD22	1.50	0.91
1:I:390:LEU:CD1	1:I:395:ILE:CG1	2.49	0.91
4:M:399:VAL:CG2	4:M:427:VAL:HB	2.01	0.91
6:K:92:PHE:O	6:K:127:ASN:HA	1.71	0.91
15:V:259:VAL:O	15:V:263:ASP:HB2	1.69	0.91
27:p:187:ARG:CB	27:p:188:PRO:CD	2.48	0.91
2:v:165:GLN:OE1	2:v:267:LYS:NZ	2.03	0.91
2:v:215:PHE:CD2	2:v:324:PRO:HG3	2.06	0.91
1:w:184:TYR:OH	1:w:239:VAL:HG22	1.71	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
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
5:J:194:THR:O	33:J:501:ADP:N7	2.03	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:83:ASP:HA	2:v:86:THR:OG1	1.70	0.91
2:v:355:PHE:HE1	2:v:385:ILE:HG22	1.34	0.91
1:w:180:PRO:CG	1:w:240:ALA:C	2.44	0.91
5:x:30:GLU:HB3	5:x:34:ILE:HD11	1.52	0.91
5:x:148:TYR:O	5:x:150:MET:N	2.02	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
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:264:MET:CE	3:L:275:MET:HE1	1.99	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
12:S:480:ILE:HB	13:T:342:TYR:CZ	2.06	0.91
13:T:322:GLN:O	13:T:324:LYS:N	2.03	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
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
19:B:207:SER:O	19:B:208:ILE:HD13	1.70	0.90
23:F:20:ARG:CB	4:0:435:LEU:HD11	2.00	0.90
1:w:287:ILE:HD11	1:w:331:THR:CG2	1.85	0.90
3:z:148:VAL:CG2	3:z:167:PRO:CB	2.48	0.90
4:0:80:ILE:CG2	4:0:84:LYS:CG	2.42	0.90
4:0:188:ILE:HG22	4:0:189:GLY:H	1.33	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
1:I:230:THR:HG22	1:I:353:PHE:HB3	0.91	0.90
2:H:215:PHE:CD2	2:H:324:PRO:HG3	2.06	0.90
5:J:30:GLU:HB3	5:J:34:ILE:HD11	1.52	0.90
5:J:235:PHE:HE1	5:J:276:LEU:HD22	0.95	0.90
6:K:92:PHE:HB3	6:K:128:ALA:H	1.36	0.90
6:K:125:LYS:CB	6:K:126:PRO:CD	2.46	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
10:Q:260:MET:HE1	10:Q:325:LYS:HB2	1.53	0.90
10:Q:396:THR:HG1	15:V:242:GLU:HG2	1.32	0.90
2:v:48:VAL:CB	18:AC:235:SER:CB	2.49	0.90
5:x:137:LEU:CG	5:x:224:ILE:CD1	2.50	0.90
6:y:200:ARG:HH22	6:y:299:PHE:HB3	1.36	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:227:PRO:CG	1:I:355:LEU:HD21	2.01	0.90
3:L:114:GLU:N	3:L:114:GLU:OE1	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
2:v:191:VAL:HG11	2:v:229:VAL:HG11	1.51	0.90
1:w:390:LEU:CD1	1:w:395:ILE:CG1	2.49	0.90
3:z:323:HIS:O	3:z:325:GLU:N	2.04	0.90
7:1:35:TRP:HH2	12:6:273:LYS:HD2	1.32	0.90
9:3:78:LYS:N	9:3:79:GLU:HB3	1.86	0.90
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
13:7:322:GLN:O	13:7:324:LYS:N	2.03	0.90
3:L:323:HIS:O	3:L:325:GLU:N	2.04	0.90
4:M:373:MET:HE3	4:M:415:LEU:HD11	1.50	0.90
10:Q:397:TYR:CD2	11:R:365:GLN:NE2	2.40	0.90
24:G:140:MET:HG2	32:g:81:HIS:CE1	2.06	0.90
1:w:232:LYS:HA	1:w:353:PHE:HE2	1.35	0.90
5:x:338:LEU:HD22	5:x:342:ILE:CD1	2.01	0.90
6:y:93:LEU:HD11	6:y:94:GLU:CG	2.00	0.90
6:y:162:VAL:HG11	6:y:214:MET:HE3	1.51	0.90
3:z:250:ASP:O	3:z:254:GLN:HG2	1.71	0.90
4:0:373:MET:CE	4:0:415:LEU:CD1	2.48	0.90
10:4:397:TYR:CD2	11:5:365:GLN:NE2	2.40	0.90
11:5:53:TYR:HH	11:5:150:PHE:HZ	0.97	0.90
12:6:480:ILE:HB	13:7:342:TYR:CZ	2.06	0.90
1:I:180:PRO:CG	1:I:240:ALA:C	2.44	0.90
6:K:164:TYR:HD1	6:K:222:HIS:CD2	1.87	0.90
6:K:164:TYR:HB2	6:K:222:HIS:NE2	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
2:v:153:LEU:HD21	1:w:132:TYR:CE2	2.06	0.90
1:w:103:ARG:CG	1:w:160:ILE:HG23	2.02	0.90
5:x:189:TYR:CE2	5:x:316:GLU:HG3	2.03	0.90
6:y:207:PRO:HB2	6:y:335:LEU:CD2	2.01	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
1:I:183:THR:HA	1:I:241:ASN:HD22	1.35	0.90
2:H:48:VAL:CB	18:Z:235:SER:CB	2.49	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:z:322:LYS:NZ	3:z:326:ILE:HD12	1.87	0.90
8:2:370:GLN:O	13:7:340:ILE:HG21	1.71	0.90
10:4:294:SER:HA	10:4:330:LEU:HD21	1.54	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
2:v:368:ILE:HB	2:v:406:GLU:OE1	1.72	0.90
2:v:413:VAL:HG13	2:v:417:ILE:HD12	1.50	0.90
1:w:183:THR:HA	1:w:241:ASN:HD22	1.35	0.90
6:y:181:VAL:O	6:y:185:LEU:HB2	1.70	0.90
3:z:200:SER:HB3	3:z:234:GLU:O	1.70	0.90
9:3:150:ALA:HB2	9:3:165:ILE:HD11	1.52	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
7:N:35:TRP:HH2	12:S:273:LYS:HD2	1.32	0.90
9:P:420:ASP:HB3	9:P:421:PRO:HD3	1.53	0.90
7:1:524:LYS:CB	7:1:555:VAL:CB	2.50	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
10:4:396:THR:HG1	15:9:242:GLU:HG2	1.33	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
1:w:107:MET:HE1	1:w:151:LEU:HD13	1.54	0.90
3:z:235:ILE:O	3:z:239:GLY:CA	2.20	0.90
3:z:353:PHE:HA	3:z:356:ARG:HB2	1.51	0.90
8:2:35:HIS:HB2	16:AA:14:GLU:CD	1.96	0.90
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
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
6:y:176:GLU:OE2	6:y:329:ARG:HD2	1.72	0.89
3:z:145:LEU:CG	3:z:149:ILE:HD11	1.99	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:188:ILE:O	4:0:368:ILE:HD11	1.72	0.89
10:4:251:LEU:HD11	10:4:276:ALA:CB	2.02	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
8:O:35:HIS:HB2	16:W:14:GLU:CD	1.96	0.89
24:m:140:MET:HG2	32:u:81:HIS:CE1	2.07	0.89
2:v:261:PHE:CZ	2:v:306:LEU:HD13	2.07	0.89
1:w:285:ASP:OD1	1:w:330:ALA:HB3	1.72	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
1:I:103:ARG:CG	1:I:160:ILE:HG23	2.02	0.89
1:I:132:TYR:CE2	2:H:153:LEU:HD21	2.06	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
2:v:247:GLN:OE1	2:v:256:MET:HE3	1.71	0.89
1:w:191:ASP:O	1:w:194:ILE:N	2.05	0.89
1:w:227:PRO:HG2	1:w:355:LEU:HD11	1.54	0.89
14:8:72:HIS:HE1	14:8:111:LEU:HD11	1.07	0.89
2:H:247:GLN:OE1	2:H:256:MET:HE3	1.71	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:97:LEU:HD23	10:Q:106:GLU:HG2	1.55	0.89
10:Q:294:SER:HA	10:Q:330:LEU:HD21	1.54	0.89
2:v:355:PHE:HE1	2:v:385:ILE:CG2	1.82	0.89
5:x:137:LEU:HD12	5:x:220:VAL:HG13	1.53	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
11:5:185:GLY:C	11:5:201:PHE:HZ	1.52	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
6:K:181:VAL:O	6:K:185:LEU:HB2	1.70	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
19:h:120:ASP:OD1	20:i:83:ARG:NH1	2.05	0.89
2:v:355:PHE:CD1	2:v:385:ILE:HG22	2.07	0.89
6:y:64:GLU:O	6:y:68:LEU:CD1	2.19	0.89
6:y:92:PHE:O	6:y:127:ASN:HA	1.71	0.89
6:y:378:ILE:HG23	6:y:402:ALA:HB1	1.54	0.89
3:z:148:VAL:HG23	3:z:167:PRO:HG3	1.54	0.89
10:4:397:TYR:CD2	11:5:365:GLN:CD	2.49	0.89
11:5:146:ARG:HH12	11:5:213:LEU:HD12	1.33	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:245:LEU:HD12	2:H:280:ILE:HD13	1.35	0.89
6:K:167:ILE:CG1	6:K:214:MET:HE2	2.03	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
3:z:212:ALA:O	3:z:216:ARG:HD2	1.73	0.89
4:0:399:VAL:HA	4:0:427:VAL:HG21	0.91	0.89
2:H:245:LEU:HD11	2:H:280:ILE:HD13	1.55	0.89
2:H:299:MET:HE2	2:H:303:ILE:HD11	0.89	0.89
6:K:176:GLU:CG	6:K:331:ILE:CD1	2.51	0.89
6:K:184:PRO:HA	6:K:191:TYR:HE2	1.21	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
24:G:166:GLN:HE22	4:0:386:ARG:HB3	1.33	0.89
1:w:230:THR:HG22	1:w:353:PHE:HB3	0.91	0.89
1:w:398:ILE:CG2	1:w:419:PHE:CD1	2.54	0.89
5:x:147:THR:HG23	5:x:150:MET:HE3	1.52	0.89
5:x:333:SER:HB2	5:x:338:LEU:HD12	1.52	0.89
5:x:377:HIS:NE2	11:5:206:SER:HB2	1.86	0.89
3:z:181:THR:HG21	4:0:319:GLY:HA2	1.52	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
1:I:107:MET:HE1	1:I:151:LEU:HD13	1.54	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
2:H:330:ALA:HB1	2:H:336:ARG:HH11	1.37	0.89
3:L:250:ASP:O	3:L:254:GLN:HG2	1.71	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:93:LEU:HD12	6:K:94:GLU:CG	1.99	0.89
6:K:93:LEU:HD11	6:K:94:GLU:CG	2.00	0.89
6:K:133:HIS:CE1	6:K:136:SER:CB	2.52	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
27:p:187:ARG:CB	27:p:188:PRO:HD3	2.03	0.89
2:v:299:MET:HE2	2:v:303:ILE:HD11	0.89	0.89
1:w:227:PRO:CG	1:w:355:LEU:HD21	2.01	0.89
1:w:313:LEU:CG	1:w:346:ARG:HH11	1.83	0.89
3:z:322:LYS:HB2	3:z:326:ILE:HD11	1.53	0.89
3:z:346:VAL:HA	3:z:374:VAL:HG21	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:261:PHE:CZ	2:H:306:LEU:HD13	2.07	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
5:J:137:LEU:HD11	5:J:220:VAL:HG11	1.52	0.89
6:K:162:VAL:CG1	6:K:214:MET:CE	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
2:v:157:ILE:HG21	2:v:263:MET:CG	2.02	0.89
1:w:217:LYS:HB3	1:w:218:PRO:CD	2.03	0.89
5:x:273:MET:HE1	5:x:305:LEU:CD2	2.02	0.89
6:y:92:PHE:HB3	6:y:128:ALA:H	1.36	0.89
6:y:176:GLU:CG	6:y:331:ILE:CD1	2.51	0.89
2:H:368:ILE:HB	2:H:406:GLU:OE1	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
5:J:273:MET:HE1	5:J:305:LEU:CD2	2.02	0.89
6:K:176:GLU:OE2	6:K:329:ARG:HD2	1.72	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
3:z:50:LEU:HD13	4:0:82:VAL:HG21	1.54	0.89
3:z:338:PHE:HD1	3:z:378:LYS:HZ2	0.95	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
10:4:260:MET:HE1	10:4:325:LYS:HB2	1.53	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
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
31:f:153:VAL:HG13	31:f:166:LEU:CD2	2.03	0.88
1:w:344:PRO:HG2	1:w:344:PRO:O	1.72	0.88
5:x:137:LEU:CD1	5:x:224:ILE:CD1	2.32	0.88
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:272:ARG:HG2	1:I:272:ARG:HH11	1.38	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:J:196:LYS:HG2	5:J:317:PHE:CE1	2.09	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
1:w:106:PRO:O	1:w:154:HIS:CD2	2.26	0.88
3:z:255:ARG:HH21	3:z:255:ARG:HG3	1.39	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: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
2:H:172:VAL:HG13	2:H:224:LEU:HD22	1.55	0.88
3:L:325:GLU:OE1	3:L:363:VAL:HG23	1.73	0.88
5:J:247:PHE:CD1	5:J:292:ILE:CG2	2.57	0.88
7:N:350:LEU:O	7:N:354:LYS:N	2.05	0.88
1:w:246:THR:OG1	1:w:280:SER:CB	2.20	0.88
6:y:96:VAL:HG21	6:y:112:TYR:CE1	2.07	0.88
6:y:162:VAL:CG1	6:y:214:MET:CE	2.51	0.88
6:y:164:TYR:HB2	6:y:222:HIS:NE2	1.87	0.88
3:z:114:GLU:N	3:z:114:GLU:OE1	2.05	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
1:I:191:ASP:O	1:I:194:ILE:N	2.05	0.88
5:J:24:TYR:O	5:J:25:LEU:C	2.17	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
20:C:132:SER:HB3	20:C:162:MET:HE1	1.51	0.88
5:x:247:PHE:CD1	5:x:292:ILE:CG2	2.57	0.88
6:y:119:ILE:O	6:y:121:ARG:N	2.06	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
11:5:228:MET:HE3	11:5:263:LEU:HD22	1.54	0.88
14:8:8:LYS:O	14:8:47:VAL:HG13	1.73	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:65:LEU:CB	18:Z:206:ASP:CB	2.52	0.88
3:L:201:SER:CB	4:M:312:GLU:OE1	2.22	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
18:Z:291:GLN:O	18:Z:295:ALA:N	2.07	0.88
6:y:160:PRO:HG2	6:y:220:ALA:HB3	0.93	0.88
6:y:215:LEU:CD2	6:y:333:PHE:HZ	1.86	0.88
3:z:325:GLU:OE1	3:z:363:VAL:HG23	1.73	0.88
9:3:344:THR:CA	9:3:348:GLU:HB2	2.03	0.88
3:L:56:ILE:HD13	4:M:132:TYR:CE1	2.08	0.88
3:L:255:ARG:HH21	3:L:255:ARG:HG3	1.39	0.88
3:L:383:LYS:HG2	3:L:386:TYR:CZ	2.08	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
5:x:340:ARG:HH11	5:x:340:ARG:HB3	1.38	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
18:AC:227:ALA:O	18:AC:229:VAL:N	2.06	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
13:T:120:LYS:C	13:T:124:LEU:HB2	1.99	0.88
5:x:86:LEU:HD22	5:x:96:VAL:HG22	1.55	0.88
5:x:196:LYS:HG2	5:x:317:PHE:CE1	2.09	0.88
6:y:391:ARG:HH12	6:y:395:LEU:CG	1.86	0.88
3:z:291:ARG:HE	3:z:294:ARG:HH11	1.18	0.88
7:1:423:MET:HE1	7:1:445:ALA:HB1	1.56	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
6:K:359:ASP:C	6:K:361:GLU:H	1.82	0.88
9:P:421:PRO:HD2	9:P:422:ASN:H	1.38	0.88
11:R:228:MET:HE3	11:R:263:LEU:HD22	1.54	0.88
18:Z:259:PHE:CB	18:Z:262:PHE:CB	2.50	0.88
1:w:250:VAL:HG21	1:w:270:LEU:CD1	2.04	0.88
3:z:148:VAL:HG23	3:z:167:PRO:CG	2.02	0.88
10:4:402:GLU:CG	15:9:249:LEU:HD11	2.04	0.88
1:I:387:LYS:HB2	1:I:390:LEU:CD2	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:61:LEU:CD1	3:L:78:ARG:CG	2.51	0.88
3:L:122:MET:CE	3:L:218:MET:CG	2.52	0.88
4:M:139:LEU:O	4:M:140:VAL:CG1	2.22	0.88
6:K:391:ARG:HH12	6:K:395:LEU:CG	1.86	0.88
7:N:423:MET:HE1	7:N:445:ALA:HB1	1.56	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
12:S:328:VAL:HG13	12:S:329:HIS:N	1.87	0.88
14:U:224:HIS:O	14:U:228:TYR:CE1	2.27	0.88
19:B:203:SER:O	19:B:207:SER:N	2.06	0.88
2:v:245:LEU:HD11	2:v:280:ILE:HD13	1.55	0.88
5:x:143:VAL:CG1	5:x:213:ARG:CD	2.47	0.88
6:y:359:ASP:C	6:y:361:GLU:H	1.82	0.88
3:z:148:VAL:O	3:z:152:PRO:CG	2.19	0.88
4:0:233:LYS:HG2	4:0:354:PHE:HD2	1.36	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
24:G:166:GLN:NE2	4:0:383:GLU:O	2.06	0.88
2:v:299:MET:HE1	2:v:328:ASP:CB	2.04	0.88
2:v:303:ILE:HG23	2:v:336:ARG:CZ	2.03	0.88
6:y:167:ILE:CG1	6:y:214:MET:HE2	2.03	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
11:5:225:TYR:OH	11:5:278:VAL:CG1	2.21	0.88
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:161:VAL:HG12	2:H:263:MET:CE	2.04	0.87
2:H:224:LEU:O	2:H:228:ALA:N	2.07	0.87
3:L:50:LEU:HD13	4:M:82:VAL:HG21	1.54	0.87
4:M:435:LEU:HD11	23:l:20:ARG:CB	2.03	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
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
1:w:363:ARG:O	1:w:367:ILE:HG13	1.74	0.87
5:x:86:LEU:HD22	5:x:96:VAL:CG2	2.04	0.87
4:0:248:PHE:CE2	4:0:250:LYS:HB3	2.09	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:234:LEU:HD11	33:I:501:ADP:C2	2.09	0.87
2:H:233:THR:HG23	2:H:234:ASP:N	1.89	0.87
25:X:3:ILE:O	25:X:5:THR:N	2.06	0.87
5:x:188:LEU:HB2	5:x:294:ALA:HB1	1.56	0.87
6:y:366:ARG:NH1	6:y:403:TYR:CD2	2.42	0.87
6:y:378:ILE:CG1	6:y:406:VAL:HG21	2.04	0.87
3:z:201:SER:CB	4:0:312:GLU:OE1	2.22	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
1:I:390:LEU:CD1	1:I:395:ILE:HG13	2.04	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
11:R:51:ALA:HB3	11:R:52:PRO:HD3	1.56	0.87
11:R:120:ALA:O	11:R:124:PHE:CD2	2.27	0.87
2:v:160:THR:O	2:v:164:MET:HE3	1.73	0.87
2:v:172:VAL:HG13	2:v:224:LEU:HD22	1.55	0.87
2:v:174:TYR:CD2	2:v:184:ILE:HD13	2.09	0.87
2:v:351:ARG:HA	2:v:354:ILE:HD12	1.53	0.87
1:w:356:PRO:CB	1:w:361:LYS:HG3	2.05	0.87
1:w:401:GLU:HB3	1:w:422:SER:CB	2.04	0.87
5:x:55:LYS:O	5:x:59:LEU:HB2	1.75	0.87
6:y:394:VAL:CG1	6:y:398:ASP:HB3	2.02	0.87
3:z:383:LYS:HG2	3:z:386:TYR:CZ	2.08	0.87
10:4:19:ASP:O	10:4:23:SER:N	2.07	0.87
2:H:299:MET:HE1	2:H:328:ASP:CB	2.04	0.87
3:L:338:PHE:HZ	3:L:375:ALA:CA	1.88	0.87
4:M:435:LEU:HD11	23:l:20:ARG:HB3	1.56	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
1:w:65:LEU:CB	18:AC:206:ASP:CB	2.52	0.87
1:w:203:LEU:HB3	1:w:204:PRO:HD3	1.55	0.87
5:x:286:THR:O	5:x:287:LYS:HB2	1.75	0.87
6:y:106:THR:OG1	3:z:77:PRO:HB2	1.74	0.87
3:z:143:ARG:O	3:z:147:GLU:OE1	1.92	0.87
3:z:331:ILE:HD11	3:z:367:PHE:CD1	2.08	0.87
4:0:233:LYS:HG2	4:0:354:PHE:CD2	2.09	0.87
2:H:302:LEU:CD1	2:H:306:LEU:HD22	2.04	0.87
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:435:LEU:CD2	4:M:438:TYR:CE1	2.57	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
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
5:x:224:ILE:CG2	5:x:237:MET:SD	2.62	0.87
3:z:61:LEU:CD1	3:z:78:ARG:CG	2.51	0.87
3:z:195:PHE:CD1	3:z:229:ILE:HG21	2.10	0.87
3:z:338:PHE:HZ	3:z:375:ALA:CA	1.88	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
14:8:215:VAL:C	14:8:220:LEU:CB	2.48	0.87
14:8:256:GLN:OE1	15:9:299:CYS:SG	2.32	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
2:H:273:PHE:CE2	2:H:275:ASP:HB2	2.10	0.87
4:M:399:VAL:N	4:M:427:VAL:HG21	1.89	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
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
16:W:55:ALA:O	16:W:85:THR:OG1	1.91	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
3:z:195:PHE:HD1	3:z:229:ILE:CG2	1.88	0.87
4:0:288:LEU:HD21	4:0:342:LEU:CD1	2.04	0.87
2:H:143:ASP:OD2	2:H:146:LYS:CB	2.23	0.87
2:H:301:GLU:OE1	4:M:254:PRO:HB2	1.75	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
10:Q:279:TYR:O	10:Q:280:ALA:O	1.91	0.87
14:U:94:TRP:HZ2	14:U:109:ASN:CG	1.81	0.87
6:y:273:LYS:HG3	6:y:274:ARG:H	1.38	0.87
3:z:56:ILE:HD13	4:0:132:TYR:CE1	2.08	0.87
8:2:73:PRO:HB3	8:2:110:ALA:CB	2.05	0.87
10:4:397:TYR:CZ	14:8:258:VAL:HG21	2.10	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:158:THR:O	11:5:162:GLU:HG2	1.75	0.87
14:8:94:TRP:HZ2	14:8:109:ASN:CG	1.81	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
5:J:55:LYS:O	5:J:59:LEU:HB2	1.75	0.87
5:J:143:VAL:CG1	5:J:213:ARG:CD	2.47	0.87
11:R:30:GLU:HA	11:R:31:HIS:CG	2.10	0.87
2:v:273:PHE:CE2	2:v:275:ASP:HB2	2.10	0.87
5:x:65:LEU:HD12	5:x:68:GLU:OE2	1.72	0.87
3:z:61:LEU:CD1	3:z:78:ARG:HG2	2.05	0.87
4:0:399:VAL:HG22	4:0:427: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
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:143:ARG:O	3:L:147:GLU:CD	2.18	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
2:v:233:THR:HG23	2:v:234:ASP:N	1.89	0.87
1:w:180:PRO:CG	1:w:241:ASN:N	2.38	0.87
1:w:234:LEU:HD11	33:w:501:ADP:C2	2.09	0.87
1:w:290:ILE:HD13	1:w:309:MET:CE	2.05	0.87
1:w:401:GLU:CB	1:w:422:SER:HB2	2.04	0.87
5:x:24:TYR:O	5:x:25:LEU:C	2.17	0.87
5:x:72:TYR:HE2	5:x:121:TYR:HH	0.89	0.87
5:x:149:GLU:OE2	11:5:133:ALA:HB1	1.74	0.87
5:x:161:ILE:CD1	5:x:199:LEU:HG	2.04	0.87
4:0:202:ILE:HG21	4:0:282:ILE:CD1	2.04	0.87
4:0:228:PRO:HG2	4:0:356:MET:CG	2.02	0.87
4:0:228:PRO:CG	4:0:356:MET:HG3	2.02	0.87
4:0:303:ASP:O	4:0:307:GLN:OE1	1.93	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:162:VAL:HG13	1:I:163:LEU:N	1.90	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:86:LEU:HD22	5:J:96:VAL:HG22	1.55	0.86
5:J:214:VAL:HG21	5:J:234:LEU:HD21	1.57	0.86
24:m:196:ARG:HD3	24:m:239:ARG:HE	1.39	0.86
2:v:302:LEU:CD1	2:v:306:LEU:HD22	2.04	0.86
1:w:193:GLN:OE1	1:w:352:GLU:O	1.93	0.86
1:w:390:LEU:CD1	1:w:395:ILE:HG13	2.04	0.86
5:x:228:ALA:HB1	5:x:233:GLU:OE2	1.74	0.86
5:x:328:ILE:HG12	33:x:501:ADP:N1	1.90	0.86
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:180:PRO:CG	1:I:241:ASN:N	2.38	0.86
2:H:351:ARG:HA	2:H:354:ILE:HD12	1.56	0.86
4:M:246:ALA:HB2	4:M:280:PRO:HG2	1.57	0.86
5:J:162:LYS:HE2	5:J:166:GLU:OE1	1.75	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
1:w:407:LEU:HD13	5:x:175:PHE:CE1	2.09	0.86
5:x:209:CYS:SG	5:x:243:PRO:HB2	2.14	0.86
6:y:90:GLY:C	6:y:130:VAL:CG2	2.48	0.86
6:y:293:LEU:HD22	6:y:326:ARG:HH11	1.15	0.86
3:z:61:LEU:CD1	3:z:78:ARG:CD	2.52	0.86
3:z:122:MET:CE	3:z:218:MET:CG	2.52	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
1:I:269:GLU:O	1:I:273:VAL:HG23	1.75	0.86
4:M:399:VAL:HG22	4:M:427:VAL:CB	2.05	0.86
6:K:239:TYR:HE2	6:K:245:ARG:HH22	1.24	0.86
5:x:333:SER:HB2	5:x:338:LEU:HD11	1.55	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: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
3:L:61:LEU:CD1	3:L:78:ARG:HG2	2.05	0.86
4:M:80:ILE:CG2	4:M:84:LYS:CE	2.53	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:328:ILE:HG12	33:J:501:ADP:N1	1.90	0.86
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
9:P:274:VAL:HG11	9:P:287:VAL:CG2	2.05	0.86
14:U:262:LEU:O	14:U:266:ILE:HG22	1.76	0.86
2:v:224:LEU:O	2:v:228:ALA:N	2.07	0.86
2:v:351:ARG:CZ	2:v:377:CYS:O	2.24	0.86
1:w:107:MET:HE1	1:w:151:LEU:HB3	1.58	0.86
5:x:72:TYR:HE2	5:x:121:TYR:OH	1.41	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
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
32:u:186:ARG:HE	32:u:202:PRO:HB3	1.40	0.86
2:v:102:ILE:CD1	2:v:120:LYS:HD3	2.04	0.86
1:w:272:ARG:HH11	1:w:272:ARG:HG2	1.38	0.86
5:x:155:ASP:O	5:x:158:ILE:N	2.08	0.86
6:y:184:PRO:CB	6:y:191:TYR:CZ	2.58	0.86
4:0:153:VAL:HG12	4:0:158:TYR:HA	1.56	0.86
1:I:203:LEU:HB3	1:I:204:PRO:HD3	1.55	0.86
1:I:250:VAL:HG21	1:I:270:LEU:CD1	2.04	0.86
2:H:160:THR:O	2:H:164:MET:HE3	1.73	0.86
4:M:294:LYS:HA	4:M:339:ASP:CG	2.00	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
1:w:94:GLU:O	1:w:98:LYS:N	2.09	0.86
5:x:72:TYR:CD2	5:x:121:TYR:OH	2.28	0.86
7:1:893:THR:HA	7:1:906:LEU:CG	2.04	0.86
9:3:421:PRO:HD2	9:3:422:ASN:H	1.38	0.86
1:I:107:MET:HE1	1:I:151:LEU:HB3	1.58	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:228:MET:HE1	11:R:271:PHE:HE2	1.40	0.86
11:R:263:LEU:HB2	11:R:271:PHE:CE2	2.11	0.86
1:w:407:LEU:CD1	5:x:175:PHE:CE1	2.59	0.86
5:x:86:LEU:HD23	5:x:96:VAL:HG21	1.57	0.86
4:0:226:TYR:HB3	4:0:335: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:w:154:HIS:HE1	5:x:95:PHE:CD1	1.94	0.86
3:z:322:LYS:HD3	3:z:326:ILE:HD11	1.56	0.86
18:AC:667:GLY:O	18:AC:672:LEU:N	2.09	0.86
1:I:154:HIS:HE1	5:J:95:PHE:CD1	1.94	0.86
2:H:191:VAL:HG13	2:H:271:LEU:HD21	1.58	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
5:J:65:LEU:HD12	5:J:68:GLU:CD	2.00	0.86
5:J:340:ARG:HH11	5:J:340:ARG:HB3	1.38	0.86
6:K:273:LYS:HG3	6:K:274:ARG:H	1.38	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
14:U:94:TRP:CZ2	14:U:109:ASN:CG	2.54	0.86
1:w:369:THR:HG22	1:w:399:CYS:SG	2.16	0.86
5:x:116:LEU:HD23	5:x:121:TYR:CD1	2.09	0.86
5:x:151:ILE:CG1	5:x:198:LEU:CD2	2.39	0.86
3:z:143:ARG:O	3:z:147:GLU:CD	2.18	0.86
4:0:294:LYS:HA	4:0:339:ASP:CG	2.00	0.86
4:0:407:ALA:HB3	4:0:415: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
12:6:228:ARG:CZ	12:6:257:ASN:CG	2.49	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
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
2:H:125:LEU:HD13	2:H:129:VAL:HG23	1.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:154:LEU:O	5:x:158:ILE:CG1	2.23	0.86
3:z:49:ALA:HB1	4:0:136:VAL:HG11	1.57	0.86
4:0:80:ILE:CG2	4:0:84: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
12:S:328:VAL:HG13	12:S:329:HIS:H	1.39	0.85
2:v:172:VAL:HG11	2:v:224:LEU:CD2	2.06	0.85
1:w:271:PHE:CG	1:w:315:GLN:NE2	2.44	0.85
1:w:387:LYS:HB2	1:w:390:LEU:CD2	2.04	0.85
6:y:345:PHE:CE2	6:y:360:LEU:CD1	2.58	0.85
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
10:4:273:GLY:C	10:4:277:LEU:HB2	2.01	0.85
11:5:51:ALA:HB3	11:5:52:PRO:HD3	1.56	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
14:U:215:VAL:C	14:U:220:LEU:CB	2.48	0.85
2:v:362:MET:HB2	1:w:214:MET:O	1.75	0.85
6:y:115:ILE:HD11	6:y:121:ARG:NH2	1.90	0.85
6:y:212:LYS:HG2	6:y:333:PHE:CD2	2.11	0.85
4:0:342:LEU:O	4:0:348:LEU:HD11	1.74	0.85
7:1:35:TRP:HH2	12:6:273:LYS:CE	1.86	0.85
13:7:120:LYS:C	13:7:124:LEU:HB2	1.99	0.85
3:L:49:ALA:HB1	4:M:136:VAL:HG11	1.57	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
8:O:348:GLY:O	8:O:352:ARG:HG3	1.75	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
30:e:38:ASN:ND2	30:e:40:TYR:CZ	2.43	0.85
2:v:425:ALA:HB3	1:w:339:PRO:HB3	1.54	0.85
6:y:205:TYR:HD2	6:y:314:ALA:CB	1.90	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
2:H:111:TYR:OH	2:H:131:PRO:HA	1.76	0.85
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
1:w:424:GLU:CG	1:w:428:TYR:CE2	2.60	0.85
5:x:247:PHE:HE1	5:x:292:ILE:CG2	1.87	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:287:ILE:HD11	1:I:331:THR:CG2	1.85	0.85
6:K:167:ILE:HG12	6:K:214:MET:HE2	1.58	0.85
10:Q:251:LEU:HD11	10:Q:276:ALA:HB1	1.57	0.85
2:v:111:TYR:OH	2:v:131:PRO:HA	1.76	0.85
2:v:196:LEU:O	2:v:198:PRO:HD3	1.76	0.85
2:v:330:ALA:HB1	2:v:336:ARG:HH11	1.37	0.85
5:x:114:VAL:HG11	5:x:126:ILE:HG12	1.56	0.85
6:y:383:GLY:HA3	3:z:164:ILE:HD13	1.59	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
3:L:338:PHE:HA	3:L:378:LYS:NZ	1.92	0.85
6:K:275:PHE:HZ	6:K:289:LEU:HD12	1.36	0.85
10:Q:273:GLY:C	10:Q:277:LEU:HB2	2.01	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
3:z:338:PHE:HA	3:z:378:LYS:NZ	1.92	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
8:2:70:ARG:C	16:AA:17:ARG:HH21	1.83	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
2:H:196:LEU:O	2:H:198:PRO:HD3	1.76	0.85
4:M:314:LEU:CD2	4:M:342:LEU:CD2	2.50	0.85
6:K:163:MET:HG3	6:K:221:HIS:CE1	2.11	0.85
24:G:5:GLN:HE22	25:X:4:GLY:HA2	1.38	0.85
5:x:72:TYR:CD2	5:x:121:TYR:CE1	2.65	0.85
5:x:148:TYR:HD1	5:x:202:ALA:HB1	1.41	0.85
5:x:307:ARG:HB3	5:x:307:ARG:HH11	1.36	0.85
6:y:163:MET:HG3	6:y:221:HIS:CE1	2.11	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
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
3:L:129:ASN:O	3:L:189:SER:CB	2.24	0.85
3:L:195:PHE:CD1	3:L:229:ILE:HG21	2.10	0.85
3:L:195:PHE:HD1	3:L:229:ILE:CG2	1.88	0.85
6:K:147:ALA:CB	6:K:249:ASP:OD2	2.25	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:143:ASP:OD2	2:v:146:LYS:CB	2.24	0.85
2:v:161:VAL:HG13	2:v:260:LEU:HD12	1.56	0.85
2:v:220:THR:HG21	2:v:343:PHE:CB	2.06	0.85
1:w:162:VAL:HG13	1:w:163:LEU:N	1.90	0.85
1:w:269:GLU:O	1:w:273:VAL:HG23	1.75	0.85
5:x:65:LEU:HD12	5:x:68:GLU:CD	2.00	0.85
6:y:115:ILE:CD1	6:y:121:ARG:HH12	1.87	0.85
7:1:470:ASN:N	7:1:474:ARG:CB	2.39	0.85
11:5:21:GLN:CG	11:5:286:TRP:CE3	2.60	0.85
1:I:290:ILE:CD1	1:I:309:MET:HG2	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
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
8:O:4:VAL:HG23	8:O:26:GLU:OE2	1.77	0.85
8:O:70:ARG:C	16:W:17:ARG:HH21	1.83	0.85
12:S:228:ARG:CZ	12:S:257:ASN:CG	2.49	0.85
1:w:271:PHE:HB3	1:w:322:ARG:NH2	1.91	0.85
6:y:394:VAL:HG12	6:y:395:LEU:N	1.92	0.85
3:z:199:VAL:HG11	4:0:315:ASN:ND2	1.91	0.85
1:I:94:GLU:O	1:I:98:LYS:N	2.09	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
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
11:R:108:ALA:HB1	11:R:124:PHE:CE1	2.12	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
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: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
3:z:171:LEU:HD13	3:z:277:MET:HB3	1.59	0.84
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:262:LEU:O	14:8:266:ILE:HG22	1.76	0.84
1:I:424:GLU:CG	1:I:428:TYR:CE2	2.60	0.84
3:L:284:THR:HA	4:M:297:ASP:OD1	1.76	0.84
6:K:154:LEU:O	6:K:155:THR:CG2	2.25	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
1:w:190:LEU:CD1	1:w:194:ILE:HD11	2.06	0.84
1:w:285:ASP:HA	1:w:330:ALA:HB3	1.59	0.84
5:x:151:ILE:CD1	5:x:198:LEU:HD23	1.81	0.84
5:x:162:LYS:HE2	5:x:166:GLU:OE1	1.75	0.84
6:y:154:LEU:O	6:y:155:THR:CG2	2.25	0.84
6:y:275:PHE:HZ	6:y:289:LEU:HD12	1.36	0.84
3:z:129:ASN:O	3:z:189:SER:CB	2.24	0.84
8:2:11:SER:HB2	8:2:22:TRP:CB	2.07	0.84
8:2:370:GLN:HB2	13:7:337:LYS:HD3	1.59	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
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
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
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
2:v:301:GLU:OE1	4:0:254:PRO:HB2	1.75	0.84
6:y:266:GLU:HG2	3:z:258:MET:SD	2.17	0.84
6:y:372:GLY:HA2	6:y:375:ILE:CD1	2.07	0.84
4:0:212:PHE:HD1	4:0:217:ILE:HD11	0.69	0.84
11:5:134:LEU:HD13	11:5:138:LEU:CG	2.07	0.84
1:I:271:PHE:HB3	1:I:322:ARG:NH2	1.91	0.84
4:M:407:ALA:HB3	4:M:415:LEU:HD22	1.58	0.84
5:J:116:LEU:CD2	5:J:121:TYR:HD1	1.88	0.84
10:Q:273:GLY:HA2	10:Q:277:LEU:CG	2.08	0.84
24:m:33:SER:OG	24:m:62:LYS:NZ	2.10	0.84
1:w:170:LEU:CD1	1:w:269:GLU:CB	2.56	0.84
5:x:31:LEU:CA	5:x:34:ILE:HD12	2.06	0.84
3:z:238:ILE:HD11	3:z:257:LEU:N	1.91	0.84
15:9:255:TYR:HA	15:9:280:PRO:HG2	1.59	0.84
1:I:116:ILE:HB	1:I:118:ASP:OD1	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:398:ILE:CG2	1:I:419:PHE:CD1	2.54	0.84
2:H:166:VAL:HG12	2:H:237:PHE:O	1.77	0.84
2:H:375:ARG:NE	23:l:173:ALA:HB2	1.92	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
12:S:345:ARG:C	12:S:347:GLN:H	1.85	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
2:v:125:LEU:HD13	2:v:129:VAL:HG23	1.56	0.84
6:y:147:ALA:CB	6:y:249:ASP:OD2	2.25	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
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
2:H:284:ARG:HG3	2:H:296:GLN:CD	2.02	0.84
3:L:84:ARG:O	3:L:85:ARG:CG	2.23	0.84
4:M:228:PRO:CG	4:M:356:MET:HG3	2.02	0.84
4:M:342:LEU:O	4:M:348:LEU:HD11	1.74	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
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
5:x:214:VAL:HG21	5:x:234:LEU:HD21	1.57	0.84
5:x:247:PHE:CE1	5:x:292:ILE:HG21	2.13	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
5:J:72:TYR:HE2	5:J:121:TYR:OH	1.41	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
23:l:121:LEU:CD1	24:m:77:LEU:HD21	2.07	0.84
2:v:151:ILE:HG22	2:v:152:PRO:HD2	1.59	0.84
5:x:335:LYS:CA	11:5:173:ASP:HB3	2.05	0.84
6:y:160:PRO:CG	6:y:220:ALA:CB	2.51	0.84
6:y:406:VAL:O	6:y:408:LYS:HG3	1.75	0.84
3:z:326:ILE:CG2	3:z:328:TYR:CE2	2.60	0.84
3:z:363:VAL:HG22	3:z:364:GLN:N	1.92	0.84
4:0:80:ILE:HG23	4:0:84:LYS:CD	2.01	0.84
4:0:249:LEU:O	4:0:283:ILE:HA	1.78	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:112:LEU:O	1:I:147:GLY:HA2	1.78	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
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
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
1:w:290:ILE:CD1	1:w:309:MET:HG2	2.07	0.84
4:0:288:LEU:O	4:0:292:GLY:N	2.11	0.84
2:H:387:SER:OG	2:H:416:VAL:HG11	1.78	0.84
4:M:249:LEU:O	4:M:283:ILE:HA	1.78	0.84
5:J:86:LEU:HD23	5:J:96:VAL:HG21	1.57	0.84
5:J:161:ILE:HG21	5:J:203:VAL:HG21	1.60	0.84
7:N:423:MET:CE	7:N:445:ALA:HB1	2.07	0.84
2:v:387:SER:OG	2:v:416:VAL:HG11	1.78	0.84
1:w:402:ALA:HB1	1:w:414:VAL:CG1	2.04	0.84
3:z:350:ALA:HB1	3:z:366:ASP:O	1.78	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
3:L:363:VAL:HG22	3:L:364:GLN:N	1.92	0.84
6:K:191:TYR:CD1	6:K:198:PRO:HB3	2.13	0.84
11:R:108:ALA:HB3	11:R:124:PHE:CE1	2.12	0.84
5:x:280:LEU:HA	5:x:284:GLU:HG2	1.59	0.84
6:y:168:GLY:O	33:y:501:ADP:N6	2.11	0.84
3:z:122:MET:O	3:z:196:LEU:HA	1.77	0.84
3:z:284:THR:HA	4:0:297:ASP:OD1	1.76	0.84
3:z:338:PHE:CZ	3:z:375:ALA:CA	2.61	0.84
1:I:144:LEU:HD21	1:I:162:VAL:HG22	1.60	0.83
2:H:348:LEU:HD12	23:l:175:GLU:CG	2.08	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:v:307:ASP:OD2	2:v:335:GLY:C	2.22	0.83
1:w:112:LEU:O	1:w:147:GLY:HA2	1.78	0.83
5:x:228:ALA:CB	5:x:233:GLU:OE2	2.26	0.83
6:y:167:ILE:HG12	6:y:214:MET:HE2	1.58	0.83
6:y:230:VAL:HG11	6:y:235:PHE:CE1	2.13	0.83
4:0:402:GLU:OE1	4:0:427:VAL:HG22	1.77	0.83
8:2:35:HIS:CB	16:AA:14:GLU:CD	2.51	0.83
3:L:258:MET:SD	6:K:266:GLU:HG2	2.17	0.83
6:K:109:SER:HB2	6:K:111:TYR:CZ	2.13	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
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
6:y:212:LYS:HA	6:y:333:PHE:HE2	1.43	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
2:H:172:VAL:HG11	2:H:224:LEU:CD2	2.06	0.83
2:H:307:ASP:OD2	2:H:335:GLY:C	2.22	0.83
4:M:89:LEU:HD11	4:M:128:THR:HG23	1.60	0.83
5:J:307:ARG:HB3	5:J:307:ARG:HH11	1.36	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
2:v:125:LEU:CD1	2:v:129:VAL:HG23	2.08	0.83
2:v:217:PRO:HG2	2:v:345:LEU:HD21	1.60	0.83
2:v:273:PHE:HE2	2:v:275:ASP:HB2	1.42	0.83
1:w:283:PHE:HD1	1:w:328:ILE:CG2	1.89	0.83
5:x:162:LYS:HG2	5:x:166:GLU:OE1	1.76	0.83
6:y:372:GLY:HA2	6:y:375:ILE:HD13	1.58	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:250:VAL:HG23	1:I:270:LEU:HD13	1.60	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
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
9:P:48:LEU:HD21	9:P:90:LEU:HD11	1.59	0.83
9:P:445:LEU:O	9:P:449:GLU:HG3	1.77	0.83
18:Z:800:LEU:O	18:Z:804:LEU:CB	2.27	0.83
2:v:119:ALA:HB1	4:0:127:SER:CB	2.08	0.83
2:v:188:ARG:HG3	2:v:192:GLU:HB3	1.60	0.83
2:v:277:ILE:HD11	2:v:321:THR:HB	1.60	0.83
6:y:109:SER:HB2	6:y:111:TYR:CZ	2.13	0.83
6:y:191:TYR:CD1	6:y:198:PRO:HB3	2.13	0.83
6:y:239:TYR:HE2	6:y:245:ARG:HH22	1.24	0.83
6:y:275:PHE:HZ	6:y:289:LEU:CD1	1.91	0.83
4:0:80:ILE:CG2	4:0:84:LYS:HD2	2.04	0.83
4:0:146:LYS:HE2	4:0:149:ASP:OD2	1.79	0.83
7:1:35:TRP:CZ3	12:6:273:LYS:CD	2.59	0.83
10:4:57:LEU:C	10:4:59:LYS:H	1.85	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
2:H:102:ILE:CD1	2:H:120:LYS:HD3	2.04	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
5:J:86:LEU:HD22	5:J:96:VAL:CG2	2.04	0.83
5:J:360:LYS:O	5:J:364:THR:HG23	1.79	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
8:O:338:PRO:HB2	14:U:231:GLN:OE1	1.78	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
13:T:163:SER:O	13:T:166:ARG:HB2	1.79	0.83
5:x:189:TYR:HE2	5:x:316:GLU:CG	1.89	0.83
5:x:189:TYR:CE1	5:x:316:GLU:HB3	2.13	0.83
6:y:249:ASP:OD1	6:y:252:ARG:NH1	2.11	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
4:M:80:ILE:HG23	4:M:84:LYS:CD	2.01	0.83
6:K:354:LEU:HD11	6:K:394:VAL:HB	1.60	0.83
7:N:35:TRP:CZ3	12:S:273:LYS:CD	2.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:35:HIS:CB	16:W:14:GLU:CD	2.51	0.83
2:v:166:VAL:HG12	2:v:237:PHE:O	1.77	0.83
2:v:191:VAL:HG13	2:v:271:LEU:HD21	1.58	0.83
1:w:200:SER:C	1:w:219:PRO:HG3	2.04	0.83
6:y:151:ILE:HG22	6:y:152:MET:N	1.94	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
14:8:94:TRP:CZ2	14:8:109:ASN:CG	2.54	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
5:J:164:VAL:C	5:J:168:PRO:HG2	2.04	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
2:v:345:LEU:CD1	2:v:430:MET:HE3	2.08	0.83
5:x:116:LEU:CD2	5:x:121:TYR:HD1	1.88	0.83
5:x:151:ILE:CG2	5:x:154:LEU:HD12	2.08	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
3:L:235:ILE:HG13	3:L:278:ALA:O	1.78	0.83
4:M:206:MET:HB2	4:M:327:LYS:HZ1	1.39	0.83
4:M:310:MET:CE	4:M:339:ASP:HB2	2.09	0.83
5:J:90:HIS:CB	5:J:91:PRO:HD3	2.07	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
6:K:205:TYR:HD2	6:K:314:ALA:CB	1.90	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
1:w:116:ILE:HB	1:w:118:ASP:OD1	1.76	0.83
1:w:144:LEU:HD21	1:w:162:VAL:HG22	1.60	0.83
1:w:250:VAL:HG23	1:w:270:LEU:HD13	1.60	0.83
1:w:398:ILE:HG22	1:w:419:PHE:CE1	2.13	0.83
6:y:83:GLN:O	6:y:87:LEU:HD21	1.78	0.83
6:y:354:LEU:HD11	6:y:394:VAL:HB	1.60	0.83
3:z:235:ILE:HG13	3:z:278:ALA:O	1.78	0.83
4:0:237:ALA:HB2	4:0:284:PHE:CE2	2.13	0.83
7:1:885:MET:O	7:1:889:LEU:CG	2.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:339:PRO:HB3	2:H:425:ALA:HB3	1.54	0.83
2:H:125:LEU:HD12	2:H:126:SER:O	1.79	0.83
2:H:209:PRO:CD	4:M:405:MET:SD	2.66	0.83
2:H:220:THR:HG21	2:H:343:PHE:CB	2.06	0.83
5:J:286:THR:O	5:J:287:LYS:HB2	1.75	0.83
6:K:70:LYS:O	6:K:73:LEU:HD12	1.79	0.83
6:K:372:GLY:C	33:K:501:ADP:C8	2.57	0.83
6:K:383:GLY:O	6:K:387:VAL:HG23	1.79	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
8:O:370:GLN:HB2	13:T:337:LYS:HD3	1.59	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
19:B:120:ASP:OD1	20:C:83:ARG:NH1	2.12	0.83
6:y:70:LYS:O	6:y:73:LEU:HD12	1.79	0.83
6:y:128:ALA:CB	6:y:142:VAL:CG1	2.51	0.83
4:0:235:LEU:HD11	33:0:501: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
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
2:v:284:ARG:HG3	2:v:296:GLN:CD	2.02	0.83
5:x:164:VAL:C	5:x:168:PRO:HG2	2.04	0.83
6:y:372:GLY:C	33:y:501:ADP:C8	2.57	0.83
3:z:305:ASN:H	3:z:308:ALA:HB3	1.39	0.83
4:0:169:ASP:HB2	4:0:172:VAL:CG2	2.09	0.83
7:1:232:ILE:O	7:1:236:LEU:N	2.09	0.83
1:I:170:LEU:CD1	1:I:269:GLU:CB	2.56	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:235:LEU:HD11	33:M:501:ADP:H2'	1.60	0.82
4:M:288:LEU:O	4:M:292:GLY:N	2.11	0.82
5:J:151:ILE:HD13	5:J:198:LEU:HB3	1.60	0.82
10:Q:260:MET:HE1	10:Q:325:LYS:CB	2.09	0.82
31:t:35:ILE:O	32:u:151:ARG:NH2	2.12	0.82
1:w:234:LEU:HG	33:w:501:ADP:H2'	1.62	0.82
6:y:60:TYR:OH	7:1:640:LEU:HD21	1.79	0.82
3:z:182:LEU:HD22	33:z:401:ADP:H3'	1.60	0.82
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:273:PHE:HE2	2:H:275:ASP:HB2	1.42	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
5:J:137:LEU:HD12	5:J:220:VAL:HG13	1.53	0.82
1:w:204:PRO:HG3	1:w:211:TYR:CE2	2.12	0.82
6:y:88:VAL:O	6:y:132:LEU:HB2	1.78	0.82
3:z:104:THR:HG21	15:9:50:PRO:CB	2.08	0.82
3:z:145:LEU:CD1	3:z:149:ILE:HD11	2.09	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
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
2:v:114:ASN:HB3	2:v:120:LYS:HG2	1.61	0.82
1:w:223:ILE:CG1	1:w:347:ILE:CG2	2.47	0.82
1:w:401:GLU:HG2	1:w:422:SER:CA	2.07	0.82
6:y:151:ILE:HG22	6:y:152:MET:H	1.42	0.82
4:0:251:LEU:HD21	4:0:256:LEU:HD21	1.60	0.82
4:0:256:LEU:HD12	4:0:291:ILE:HD13	1.62	0.82
4:0:310:MET:CE	4:0:339:ASP:HB2	2.09	0.82
11:5:225:TYR:CZ	11:5:278:VAL:CG1	2.63	0.82
16:AA:16:MET:CG	16:AA:29:GLN:NE2	2.42	0.82
2:H:114:ASN:HB3	2:H:120:LYS:HG2	1.61	0.82
4:M:256:LEU:HD12	4:M:291:ILE:HD13	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:222:LYS:HB3	6:K:286:GLN:HE22	1.45	0.82
6:K:60:TYR:OH	7:N:640:LEU:HD21	1.79	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
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
31:f:35:ILE:O	32:g:151:ARG:NH2	2.12	0.82
5:x:360:LYS:O	5:x:364:THR:HG23	1.79	0.82
6:y:391:ARG:HH12	6:y:395:LEU:CD1	1.93	0.82
3:z:84:ARG:O	3:z:85:ARG:CG	2.23	0.82
3:z:253:ILE:HG13	4:0:308:ARG:NH2	1.95	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: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
4:M:342:LEU:O	4:M:348:LEU:HD12	1.78	0.82
6:K:391:ARG:HH12	6:K:395:LEU:CD1	1.93	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
2:v:224:LEU:HD23	2:v:227:ARG:HH11	1.44	0.82
6:y:344:ILE:O	6:y:348:ILE:CG1	2.24	0.82
3:z:61:LEU:HD11	3:z:78:ARG:CG	2.10	0.82
3:z:264:MET:HE2	3:z:275:MET:HE1	1.60	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
1:I:227:PRO:HG2	1:I:355:LEU:HD21	1.59	0.82
2:H:242:GLY:HA2	2:H:280:ILE:HG12	1.62	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
2:v:209:PRO:CD	4:0:405:MET:SD	2.66	0.82
2:v:411:GLU:O	2:v:415:LYS:N	2.13	0.82
1:w:106:PRO:CG	5:x:121:TYR:HB2	2.10	0.82
1:w:230:THR:CB	1:w:353:PHE:HB3	2.10	0.82
4:0:342:LEU:O	4:0:348:LEU:HD12	1.78	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
6:K:90:GLY:C	6:K:130:VAL:CG2	2.48	0.82
6:K:230:VAL:HG11	6:K:235:PHE:CE1	2.13	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
2:v:125:LEU:HD12	2:v:126:SER:O	1.79	0.82
2:v:242:GLY:HA2	2:v:280:ILE:HG12	1.62	0.82
1:w:227:PRO:HG2	1:w:355:LEU:HD21	1.59	0.82
5:x:90:HIS:CB	5:x:91:PRO:HD3	2.07	0.82
6:y:162:VAL:HG11	6:y:214:MET:CE	2.08	0.82
6:y:176:GLU:HG3	6:y:331:ILE:CD1	2.08	0.82
6:y:210:CYS:SG	6:y:335:LEU:HA	2.18	0.82
3:z:119:VAL:O	3:z:123:SER:HB2	1.79	0.82
4:0:90:VAL:CG2	4:0:127: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
16:AA:142:ASN:O	16:AA:173:VAL:N	2.12	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
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
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:17:LEU:HD12	15:V:39:LEU:HD12	1.62	0.82
14:U:131:LEU:HD11	14:U:199:LYS:CD	2.10	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
2:v:95:VAL:HG13	2:v:96:ALA:H	1.44	0.82
6:y:248:ARG:O	6:y:252:ARG:HB2	1.79	0.82
6:y:383:GLY:O	6:y:387:VAL:HG23	1.79	0.82
3:z:155:ASN:N	3:z:156:PRO:CD	2.43	0.82
3:z:184:ALA:CB	3:z:231:PHE:CZ	2.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:180:PRO:CD	1:I:241:ASN:HA	2.08	0.82
2:H:164:MET:SD	2:H:240:VAL:HG22	2.19	0.82
3:L:61:LEU:HD11	3:L:78:ARG:CG	2.10	0.82
3:L:238:ILE:CD1	3:L:257:LEU:N	2.43	0.82
10:Q:258:LYS:HE3	10:Q:266:ASP:CB	2.09	0.82
2:v:126:SER:N	2:v:149:ILE:O	2.13	0.82
2:v:174:TYR:CE2	2:v:184:ILE:HG23	2.15	0.82
2:v:258:ARG:HD3	2:v:305:GLN:NE2	1.93	0.82
1:w:369:THR:CG2	1:w:399:CYS:SG	2.68	0.82
5:x:161:ILE:HG21	5:x:203:VAL:HG21	1.60	0.82
4:0:89:LEU:HD11	4:0:128:THR:HG23	1.60	0.82
12:6:472:PRO:C	12:6:476:PHE:CD2	2.58	0.82
2:H:126:SER:N	2:H:149:ILE:O	2.13	0.82
3:L:58:GLY:HA2	3:L:74:THR:HG23	0.85	0.82
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
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
3:z:205:ASP:HB2	3:z:210:GLU:CG	2.09	0.82
15:9:29:GLU:OE2	15:9:139:ARG:NH2	2.13	0.82
1:I:175:LYS:HE3	1:I:277:HIS:CE1	2.15	0.81
3:L:264:MET:HE2	3:L:275:MET:HE1	1.60	0.81
5:J:77:VAL:CB	5:J:86:LEU:HD12	2.09	0.81
5:J:214:VAL:HG11	5:J:234:LEU:HD22	1.62	0.81
6:K:93:LEU:HD11	6:K:94:GLU:HG3	1.55	0.81
6:K:168:GLY:O	33:K:501:ADP:N6	2.11	0.81
2:v:88:GLN:O	2:v:92:PRO:CD	2.21	0.81
2:v:254:ALA:O	2:v:258:ARG:CG	2.27	0.81
6:y:200:ARG:HH22	6:y:299:PHE:CB	1.92	0.81
6:y:210:CYS:SG	6:y:335:LEU:HD22	2.20	0.81
4:0:142:ALA:O	4:0:145:LEU:CB	2.28	0.81
12:6:473:GLN:HE21	14:8:253:THR:CG2	1.92	0.81
12:6:488:ASN:OD1	13:7:349:ILE:HG23	1.80	0.81
17:AB:12:LEU:O	17:AB:15:GLU:O	1.98	0.81
1:I:200:SER:C	1:I:219:PRO:HG3	2.04	0.81
2:H:99:THR:HG23	2:H:142:VAL:CG2	2.09	0.81
3:L:363:VAL:HG22	3:L:365:GLU:H	1.44	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:30:GLU:C	5:J:34:ILE:CD1	2.54	0.81
5:J:47:ALA:O	5:J:51:GLU:N	2.10	0.81
1:w:227:PRO:HD2	1:w:355:LEU:CD2	2.10	0.81
5:x:58:LEU:HG	7:1:644:TYR:HA	1.62	0.81
6:y:143:LEU:HB3	6:y:146:GLU:OE2	1.80	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: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
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:399:VAL:CG2	4:M:427:VAL:CB	2.58	0.81
5:J:72:TYR:CD2	5:J:121:TYR:HE1	1.98	0.81
6:K:244:PRO:CA	6:K:291:GLU:HG3	2.10	0.81
8:O:327:VAL:HG21	9:P:412:ILE:HG12	1.62	0.81
9:P:68:VAL:O	9:P:71:VAL:HG22	1.80	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
10:Q:340:GLU:HB2	10:Q:341:PRO:HD3	1.63	0.81
12:S:473:GLN:HE21	14:U:253:THR:CG2	1.92	0.81
14:U:23:PHE:HD2	14:U:126:VAL:HG21	1.45	0.81
15:V:29:GLU:OE2	15:V:139:ARG:NH2	2.13	0.81
15:V:255:TYR:HA	15:V:280:PRO:HG2	1.59	0.81
2:v:164:MET:SD	2:v:240:VAL:HG22	2.19	0.81
1:w:232:LYS:CA	1:w:353:PHE:CE2	2.63	0.81
1:w:234:LEU:CD1	33:w:501:ADP:C4	2.58	0.81
1:w:257:GLN:HG3	1:w:262:ASP:HB3	1.63	0.81
3:z:58:GLY:HA2	3:z:74:THR:HG23	0.85	0.81
3:z:238:ILE:CD1	3:z:257:LEU:N	2.43	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
10:4:57:LEU:O	10:4:59:LYS:N	2.13	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
11:5:185:GLY:CA	11:5:201:PHE:CZ	2.64	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
14:8:256:GLN:HG2	15:9:295:ASN:HD21	1.43	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:L:216:ARG:NH2	3:L:259:GLU:OE2	2.12	0.81
6:K:151:ILE:HG22	6:K:152:MET:N	1.94	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
21:j:8:ARG:HB3	21:j:11:ILE:HD12	1.62	0.81
1:w:180:PRO:HG2	1:w:241:ASN:N	1.96	0.81
1:w:180:PRO:CD	1:w:241:ASN:HA	2.08	0.81
1:w:278:ALA:HB1	1:w:279:PRO:CD	2.11	0.81
5:x:72:TYR:CD2	5:x:121:TYR:HE1	1.98	0.81
3:z:363:VAL:HG22	3:z:365:GLU:H	1.44	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: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
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
4:M:91:SER:O	4:M:151:VAL:HG22	1.81	0.81
5:J:58:LEU:HG	7:N:644:TYR:HA	1.62	0.81
5:J:222:LYS:CB	6:K:286:GLN:HE22	1.93	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
7:N:360:VAL:HG22	7:N:361:ARG:H	1.44	0.81
10:Q:9:PHE:O	10:Q:13:GLN:N	2.13	0.81
10:Q:236:PHE:HE1	10:Q:251:LEU:HG	1.43	0.81
11:R:183:TYR:HE1	11:R:213:LEU:CD1	1.87	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
1:w:174:MET:HE1	1:w:270:LEU:HA	1.62	0.81
5:x:222:LYS:HB3	6:y:286:GLN:HE22	1.45	0.81
6:y:190:LEU:O	6:y:196:ILE:HD12	1.80	0.81
6:y:367:PRO:O	6:y:369:LYS:N	2.12	0.81
3:z:216:ARG:NH2	3:z:259:GLU:OE2	2.12	0.81
3:z:325:GLU:OE1	3:z:364:GLN:CG	2.27	0.81
3:z:381:GLU:HB3	3:z:384:LEU:HD21	1.62	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
12:6:345:ARG:C	12:6:347:GLN:H	1.85	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:234:LEU:HG	33:I:501:ADP:H2'	1.62	0.81
1:I:283:PHE:HE1	1:I:328:ILE:CG2	1.93	0.81
2:H:90:GLU:CA	2:H:93:LEU:HD23	2.06	0.81
3:L:253:ILE:HG13	4:M:308:ARG:NH2	1.95	0.81
3:L:312:ILE:HD13	33:L:401:ADP:N6	1.95	0.81
3:L:338:PHE:CZ	3:L:375:ALA:CA	2.61	0.81
5:J:219:LEU:HD23	6:K:286:GLN:HG2	1.63	0.81
11:R:225:TYR:CZ	11:R:278:VAL:CG1	2.63	0.81
1:w:175:LYS:HE3	1:w:277:HIS:CE1	2.15	0.81
1:w:386:ALA:HB1	1:w:423:LYS:CE	2.11	0.81
5:x:189:TYR:CE1	5:x:298:ILE:HD11	2.15	0.81
6:y:292:LEU:O	6:y:296:MET:CB	2.23	0.81
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
3:L:326:ILE:HG21	3:L:328:TYR:CD2	2.16	0.81
5:J:114:VAL:HG13	5:J:126:ILE:HG23	1.61	0.81
7:N:35:TRP:HH2	12:S:273:LYS:CE	1.86	0.81
10:Q:82:LYS:HB3	10:Q:122:ARG:HH21	1.44	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: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
16:W:157:VAL:HG11	16:W:170:LEU:HB2	1.62	0.81
1:w:164:MET:HE3	5:x:78:ARG:HH12	1.46	0.81
5:x:114:VAL:CG1	5:x:126:ILE:HA	2.09	0.81
6:y:173:GLN:NE2	6:y:334:PRO:HD3	1.93	0.81
6:y:176:GLU:HG2	6:y:331:ILE:CD1	2.10	0.81
6:y:276:ASP:CB	6:y:282:ASP:OD2	2.29	0.81
6:y:312:ASN:HD22	6:y:313:ARG:H	1.28	0.81
6:y:343:LEU:O	6:y:347:THR:CG2	2.29	0.81
12:6:256:ARG:NH2	17:AB:13:LEU:O	2.14	0.81
6:K:162:VAL:HG11	6:K:214:MET:CE	2.08	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
15:V:53:VAL:CG1	15:V:77:GLN:HE22	1.92	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:373:THR:HG22	1:I:413:LYS:HE2	1.63	0.81
2:H:258:ARG:HD3	2:H:305:GLN:NE2	1.93	0.81
2:H:299:MET:HE3	2:H:328:ASP:HB3	1.63	0.81
3:L:155:ASN:N	3:L:156:PRO:CD	2.43	0.81
6:K:96:VAL:CG2	6:K:112:TYR:CE1	2.64	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
2:v:353:HIS:O	2:v:357:ILE:CG1	2.28	0.81
5:x:114:VAL:HG13	5:x:126:ILE:HG23	1.61	0.81
6:y:271:ALA:CB	6:y:289:LEU:HD21	2.09	0.81
3:z:312:ILE:HD13	33:z:401:ADP:N6	1.95	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
1:I:390:LEU:HD13	1:I:395:ILE:HG13	1.62	0.81
5:J:189:TYR:CE2	5:J:316:GLU:CB	2.62	0.81
5:J:189:TYR:CE1	5:J:298:ILE:HD11	2.15	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
6:K:372:GLY:C	33:K:501:ADP:H8	1.89	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
12:S:472:PRO:C	12:S:476:PHE:CD2	2.58	0.81
20:C:200:GLY:HA2	6:y:338:ARG:HH21	1.44	0.81
2:v:204:LEU:HD23	2:v:206:ILE:HG23	1.62	0.81
2:v:299:MET:HE3	2:v:328:ASP:HB3	1.63	0.81
5:x:130:LYS:O	5:x:131:VAL:HG23	1.81	0.81
5:x:151:ILE:HD13	5:x:198:LEU:HB3	1.60	0.81
5:x:222:LYS:CB	6:y:286:GLN:HE22	1.93	0.81
6:y:244:PRO:CA	6:y:291:GLU:HG3	2.10	0.81
6:y:372:GLY:C	33:y:501:ADP:H8	1.89	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
8:2:327:VAL:HG21	9:3:412:ILE:HG12	1.62	0.81
9:3:274:VAL:CG1	9:3:287:VAL:HG23	2.09	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
2:H:324:PRO:HD2	2:H:432:TYR:CD1	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
20:i:198:PHE:HD2	20:i:202:MET:HB2	1.45	0.80
5:x:115:ALA:N	5:x:125:LYS:O	2.12	0.80
5:x:194:THR:HA	5:x:356:GLY:H	1.45	0.80
6:y:247:VAL:HG13	6:y:251:PHE:CE2	2.17	0.80
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
10:4:260:MET:HE1	10:4:325:LYS:CB	2.09	0.80
10:4:340:GLU:HB2	10:4:341:PRO:HD3	1.63	0.80
1:I:275:GLU:HB2	1:I:322:ARG:HH12	1.45	0.80
2:H:47:GLN:O	2:H:51:ASP:N	2.14	0.80
2:H:188:ARG:HG3	2:H:192:GLU:HB3	1.60	0.80
3:L:327:ASP:OD2	3:L:330:ALA:CB	2.29	0.80
4:M:87:PRO:HB2	4:M:155:LYS:HE2	1.64	0.80
4:M:142:ALA:O	4:M:145:LEU:CB	2.28	0.80
6:K:162:VAL:HG13	6:K:214:MET:HE3	1.62	0.80
6:K:312:ASN:HD22	6:K:313:ARG:H	1.28	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
9:P:408:ARG:O	9:P:410:ALA:N	2.13	0.80
14:U:23:PHE:CD2	14:U:126:VAL:CB	2.63	0.80
12:6:224:LEU:O	12:6:228:ARG:HB2	1.81	0.80
16:AA:54:LEU:CA	16:AA:85:THR:CB	2.59	0.80
1:I:180:PRO:HG2	1:I:241:ASN:N	1.96	0.80
3:L:162:VAL:HG21	6:K:387:VAL:HG22	1.63	0.80
6:K:147:ALA:HB3	6:K:249:ASP:CG	2.06	0.80
6:K:401:LYS:O	6:K:405:THR:N	2.15	0.80
5:x:77:VAL:CB	5:x:86:LEU:HD12	2.09	0.80
5:x:369:TYR:O	5:x:372:ARG:HG2	1.81	0.80
3:z:327:ASP:OD2	3:z:330:ALA:CB	2.29	0.80
4:0:88:TYR:CE1	4:0:161: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
4:M:80:ILE:CG2	4:M:84:LYS:HD2	2.04	0.80
4:M:375:VAL:HG12	4:M:376:SER:N	1.96	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
12:S:488:ASN:OD1	13:T:349:ILE:HG23	1.80	0.80
2:v:95:VAL:HB	1:w:156:VAL:HG12	0.85	0.80
5:x:30:GLU:C	5:x:34:ILE:CD1	2.54	0.80
6:y:176:GLU:HG2	6:y:331:ILE:HD13	1.63	0.80
6:y:268:ASP:O	6:y:272:THR:HG23	1.82	0.80
8:2:34:TRP:H	16:AA:18:ASN:ND2	1.80	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
2:v:324:PRO:HD2	2:v:432:TYR:CD1	2.16	0.80
4:0:295:ARG:HD2	4:0:310:MET:HE1	1.64	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:230:THR:CB	1:I:353:PHE:HB3	2.10	0.80
1:I:315:GLN:NE2	1:I:322:ARG:HH21	1.78	0.80
2:H:95:VAL:HG13	2:H:96:ALA:H	1.44	0.80
4:M:284:PHE:HD1	4:M:285:ILE:N	1.79	0.80
5:J:369:TYR:O	5:J:372:ARG:HG2	1.81	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
2:v:99:THR:HG23	2:v:142:VAL:CG2	2.09	0.80
5:x:88:LYS:HB2	5:x:94:LYS:HG2	1.64	0.80
5:x:130:LYS:C	5:x:131:VAL:HG23	2.07	0.80
6:y:162:VAL:HG13	6:y:214:MET:HE3	1.62	0.80
6:y:237:GLN:HE22	6:y:242:GLU:HG2	1.46	0.80
12:6:494:MET:CB	14:8:275:LEU:HD23	2.12	0.80
14:8:21:ASP:OD2	15:9:104:ARG:NH1	2.15	0.80
14:8:102:HIS:N	14:8:105:ASP:OD2	2.15	0.80
1:I:144:LEU:CD2	1:I:162:VAL:HG22	2.12	0.80
2:H:355:PHE:HE1	2:H:385:ILE:CG2	1.82	0.80
3:L:197:LYS:NZ	4:M:320:PHE:CE2	2.50	0.80
4:M:88:TYR:CE1	4:M:161:LEU:HD12	2.16	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:141:ASP:OD2	4:M:144:LYS:NZ	2.14	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
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
1:w:315:GLN:NE2	1:w:322:ARG:HH21	1.78	0.80
1:w:387:LYS:HG2	1:w:390:LEU:HB3	1.64	0.80
6:y:366:ARG:HD2	6:y:403:TYR:HE2	1.46	0.80
3:z:184:ALA:CB	3:z:231:PHE:CE1	2.64	0.80
10:4:256:LEU:CD2	10:4:319:ILE:HG23	2.12	0.80
1:I:369:THR:CG2	1:I:399:CYS:SG	2.68	0.80
2:H:174:TYR:CE2	2:H:184:ILE:CG2	2.65	0.80
4:M:180:ARG:CZ	4:M:241:ALA:O	2.29	0.80
6:K:211:GLY:HA2	33:K:501:ADP:O1A	1.82	0.80
11:R:185:GLY:C	11:R:201:PHE:HZ	1.52	0.80
12:S:256:ARG:NH2	17:Y:13:LEU:O	2.14	0.80
25:X:170:GLN:CG	3:z:372:ARG:HD2	2.12	0.80
5:x:137:LEU:HB2	5:x:224:ILE:CG1	2.12	0.80
6:y:207:PRO:HD2	6:y:333:PHE:O	1.82	0.80
6:y:263:PHE:HE1	6:y:265:ASP:HB2	1.46	0.80
6:y:371:SER:O	6:y:375:ILE:HD11	1.81	0.80
2:H:166:VAL:CG1	2:H:237:PHE:O	2.30	0.80
4:M:423:GLY:O	4:M:427:VAL:HG23	1.81	0.80
5:J:194:THR:HA	5:J:356:GLY:H	1.45	0.80
5:J:247:PHE:C	5:J:248:MET:HG3	2.07	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
8:O:242:SER:C	8:O:279:GLU:OE2	2.25	0.80
14:U:45:LYS:CG	14:U:46:LYS:H	1.95	0.80
14:U:102:HIS:N	14:U:105:ASP:OD2	2.15	0.80
24:G:53:GLN:HA	4:0:436:GLN:HE22	1.47	0.80
1:w:144:LEU:CD2	1:w:162:VAL:HG22	2.12	0.80
1:w:283:PHE:HE1	1:w:328:ILE:CG2	1.93	0.80
1:w:363:ARG:O	1:w:367:ILE:CG1	2.29	0.80
5:x:137:LEU:HD13	5:x:224:ILE:HD12	1.59	0.80
5:x:297:ARG:O	5:x:300:ILE:HG12	1.82	0.80
6:y:154:LEU:C	6:y:155:THR:HG23	2.07	0.80
6:y:176:GLU:CG	6:y:331:ILE:HD13	2.12	0.80
11:5:50:MET:HE2	11:5:53:TYR:CE2	2.17	0.80
11:5:197:ALA:HB1	11:5:201:PHE:CD2	2.17	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:326:GLN:HE21	12:6:356:SER:HB3	1.45	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
2:H:208:PRO:HG2	2:H:316:LYS:NZ	1.98	0.80
2:H:299:MET:HE3	2:H:328:ASP:CB	2.11	0.80
3:L:327:ASP:OD2	3:L:330:ALA:HB3	1.82	0.80
6:K:163:MET:HG2	6:K:221:HIS:CE1	2.11	0.80
7:N:164:GLU:C	7:N:165:LYS:HG3	2.07	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
2:v:166:VAL:CG1	2:v:237:PHE:O	2.30	0.80
1:w:122:ILE:HD11	1:w:130:GLU:C	2.07	0.80
1:w:271:PHE:CZ	1:w:316:LEU:CD1	2.64	0.80
9:3:153:LYS:HE2	9:3:162:ALA:HA	1.61	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
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
6:K:80:LYS:HB2	15:V:151:VAL:CG2	2.12	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
14:U:61:ASP:HA	16:W:95:LEU:HD11	1.64	0.79
27:b:208:THR:HG22	28:c:165:GLU:OE1	1.82	0.79
2:v:208:PRO:HG2	2:v:316:LYS:NZ	1.98	0.79
1:w:230:THR:CG2	1:w:353:PHE:CA	2.54	0.79
4:0:91:SER:O	4:0:151:VAL:HG22	1.81	0.79
4:0:295:ARG:HB2	4:0:295:ARG:HH11	1.47	0.79
10:4:279:TYR:O	10:4:280:ALA:C	2.25	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
2:H:387:SER:O	2:H:391:GLU:CB	2.29	0.79
3:L:264:MET:HE1	3:L:277:MET:HE1	1.63	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
15:V:248:MET:HE3	15:V:284:LEU:HA	1.64	0.79
27:b:32:SER:HA	27:b:187:ARG:HH21	1.48	0.79
1:w:387:LYS:HB3	1:w:390:LEU:CD2	2.07	0.79
6:y:80:LYS:HB2	15:9:151:VAL:CG2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:93:LEU:HA	6:y:127:ASN:OD1	1.82	0.79
6:y:205:TYR:CD2	6:y:314:ALA:CB	2.65	0.79
6:y:408:LYS:O	6:y:410:ASP:N	2.13	0.79
3:z:148:VAL:CA	3:z:167:PRO:HG2	2.12	0.79
3:z:200:SER:OG	3:z:238:ILE:HG22	1.83	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
15:9:248:MET:HE2	15:9:284:LEU:HD23	1.64	0.79
18:AC:903:ASN:O	18:AC:907:ASP:N	2.15	0.79
4:M:295:ARG:HB2	4:M:295:ARG:HH11	1.47	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
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
5:x:219:LEU:HD23	6:y:286:GLN:HG2	1.63	0.79
3:z:264:MET:HE1	3:z:277:MET:HE1	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
1:I:174:MET:HE1	1:I:270:LEU:HA	1.62	0.79
2:H:204:LEU:HD23	2:H:206:ILE:HG23	1.62	0.79
4:M:142:ALA:O	4:M:145:LEU:HB2	1.81	0.79
6:K:272:THR:HA	6:K:316:THR:O	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
14:U:69:PHE:CE1	16:W:60:VAL:HG21	2.17	0.79
7:1:643:SER:H	7:1:649:ARG:HE	1.30	0.79
11:5:127:THR:C	11:5:131:THR:HG23	2.07	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:378:PRO:HG2	23:l:33:LEU:HD21	1.63	0.79
5:J:207:THR:CG2	5:J:209:CYS:SG	2.71	0.79
6:K:154:LEU:C	6:K:155:THR:HG23	2.07	0.79
7:N:476:GLY:HA2	7:N:479:LEU:HD12	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
19:B:158:GLY:O	20:C:83:ARG:NH2	2.15	0.79
2:v:190:VAL:HG11	2:v:212:VAL:HG21	1.62	0.79
1:w:401:GLU:CG	1:w:422:SER:HA	2.11	0.79
5:x:114:VAL:CG1	5:x:126:ILE:CG2	2.52	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
2:H:345:LEU:CD1	2:H:430:MET:HE3	2.13	0.79
5:J:88:LYS:HB2	5:J:94:LYS:HG2	1.64	0.79
5:J:130:LYS:O	5:J:131:VAL:HG23	1.81	0.79
5:J:130:LYS:C	5:J:131:VAL:HG23	2.07	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
2:v:190:VAL:HG11	2:v:212:VAL:HG23	1.56	0.79
1:w:362:LYS:HG3	1:w:384:ILE:CD1	2.13	0.79
1:w:390:LEU:HD13	1:w:395:ILE:HG13	1.62	0.79
1:w:421:LYS:O	1:w:425:ASN:CB	2.28	0.79
6:y:147:ALA:HB3	6:y:249:ASP:CG	2.06	0.79
3:z:90:SER:O	3:z:93:LYS:HE3	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
4:M:215:LEU:HD22	4:M:217:ILE:HG21	1.65	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
11:R:300:ARG:HH12	11:R:333:GLU:CG	1.95	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
24:G:207:THR:HB	24:G:226:ASP:O	1.81	0.79
27:p:208:THR:HG22	28:q:165:GLU:OE1	1.83	0.79
2:v:279:ALA:HB2	1:w:310:LEU:HD23	1.64	0.79
1:w:107:MET:HE3	1:w:160:ILE:HB	1.64	0.79
1:w:369:THR:CB	1:w:374:LEU:CD1	2.46	0.79
1:w:407:LEU:HD13	5:x:175:PHE:CZ	2.16	0.79
5:x:148:TYR:CD1	5:x:202:ALA:HB1	2.17	0.79
5:x:204:ALA:HB1	5:x:211:PHE:HB2	1.64	0.79
4:0:375:VAL:HG12	4:0:376:SER:N	1.96	0.79
18:AC:533:ASP:O	18:AC:537:THR:N	2.15	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:263:MET:O	2:H:267:LYS:HD2	1.83	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
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
9:P:301:LYS:CG	9:P:324:TYR:CD1	2.65	0.79
6:y:337:ASP:O	6:y:341:LYS:CD	2.31	0.79
11:5:268:TYR:O	11:5:271:PHE:N	2.16	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
15:9:64:ASP:HA	15:9:139:ARG:HH11	1.44	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
2:H:111:TYR:HE1	2:H:125:LEU:HD23	1.01	0.79
3:L:148:VAL:CA	3:L:167:PRO:HG2	2.12	0.79
6:K:411:GLU:HG2	6:K:412:GLN:N	1.97	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
5:x:41:ASN:HA	5:x:44:ARG:HB2	1.65	0.79
5:x:298:ILE:CG2	5:x:301:LEU:HD21	2.13	0.79
6:y:406:VAL:O	6:y:408:LYS:HG2	1.82	0.79
3:z:98:VAL:HA	3:z:110:TYR:HA	1.65	0.79
3:z:326:ILE:HG21	3:z:328:TYR:CD2	2.16	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
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
4:M:121:CYS:HB3	4:M:133:PHE:CZ	2.17	0.79
5:J:149:GLU:CG	11:R:133:ALA:HB1	2.13	0.79
5:J:195:GLY:HA3	33:J:501:ADP:N7	1.98	0.79
10:Q:134:VAL:HG22	10:Q:149:LEU:HD23	1.65	0.79
14:U:94:TRP:CD1	14:U:112:MET:CG	2.66	0.79
15:V:98:MET:HA	15:V:98:MET:CE	2.13	0.79
15:V:248:MET:HE2	15:V:284:LEU:HD23	1.64	0.79
23:F:173:ALA:HB2	2:v:375:ARG:NE	1.97	0.79
1:w:257:GLN:NE2	1:w:262:ASP:O	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:93:LEU:HD23	6:y:102:ILE:CG2	2.13	0.79
6:y:100:THR:HG21	6:y:112:TYR:OH	1.82	0.79
3:z:123:SER:OG	3:z:196:LEU:CD2	2.30	0.79
4:0:249:LEU:HD23	4:0:283:ILE:CD1	2.12	0.79
3:L:338:PHE:CD1	3:L:378:LYS:CE	2.66	0.78
4:M:295:ARG:HD2	4:M:310:MET:HE1	1.64	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
23:l:121:LEU:HD11	24:m:77:LEU:HD21	1.65	0.78
2:v:174:TYR:CE2	2:v:184:ILE:CG2	2.65	0.78
1:w:144:LEU:HG	1:w:162:VAL:HG23	1.64	0.78
6:y:272:THR:HA	6:y:316:THR:O	1.81	0.78
6:y:387:VAL:HG22	3:z:162:VAL:HG21	1.63	0.78
3:z:196:LEU:HD12	3:z:230:ILE:CD1	2.13	0.78
4:0:87:PRO:HB2	4:0:155:LYS:HE2	1.64	0.78
14:8:94:TRP:CD1	14:8:112:MET:CG	2.66	0.78
1:I:122:ILE:HD11	1:I:130:GLU:C	2.07	0.78
2:H:161:VAL:HG21	2:H:259:GLU:HB2	1.65	0.78
3:L:251:ARG:O	3:L:255:ARG:HG2	1.84	0.78
5:J:193:GLY:N	33:J:501:ADP:O2B	2.16	0.78
6:K:176:GLU:CG	6:K:331:ILE:HD13	2.12	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
8:O:34:TRP:H	16:W:18:ASN:ND2	1.80	0.78
9:P:351:TRP:CZ3	9:P:354:LEU:HD23	2.18	0.78
10:Q:415:TYR:CD1	11:R:383:LEU:HB3	2.18	0.78
11:R:128:TYR:HA	11:R:131:THR:CG2	2.13	0.78
12:S:494:MET:CB	14:U:275:LEU:HD23	2.12	0.78
14:U:9:VAL:HG23	14:U:158:VAL:HG11	1.65	0.78
14:U:12:HIS:HD2	14:U:51:SER:HA	1.46	0.78
14:U:74:TYR:HD1	15:V:98:MET:HE1	1.48	0.78
1:w:190:LEU:HD13	1:w:194:ILE:HD11	1.63	0.78
5:x:47:ALA:O	5:x:51:GLU:N	2.10	0.78
5:x:165:ILE:C	5:x:168:PRO:HD2	2.08	0.78
5:x:194:THR:C	33:x:501:ADP:N7	2.42	0.78
5:x:214:VAL:HG21	5:x:234:LEU:CD2	2.13	0.78
4:0:121:CYS:HB3	4:0:133:PHE:CZ	2.17	0.78
4:0:249:LEU:HB3	4:0:283: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:128:TYR:HA	11:5:131:THR:CG2	2.13	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
2:H:355:PHE:HE1	2:H:385:ILE:HG22	1.34	0.78
3:L:90:SER:O	3:L:93:LYS:HE3	1.81	0.78
5:J:165:ILE:C	5:J:168:PRO:HD2	2.08	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
20:C:132:SER:HB3	20:C:162:MET:HE2	1.63	0.78
1:w:275:GLU:HB2	1:w:322:ARG:HH12	1.45	0.78
5:x:184:LYS:HD2	5:x:280:LEU:O	1.81	0.78
6:y:210:CYS:HG	6:y:335:LEU:HA	1.47	0.78
6:y:211:GLY:HA2	33:y:501:ADP:O1A	1.82	0.78
6:y:401:LYS:O	6:y:405:THR:N	2.15	0.78
3:z:226:GLN:HB3	3:z:273:VAL:HG23	0.83	0.78
8:2:242:SER:C	8:2:279:GLU:OE2	2.25	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
1:I:342:ILE:HG23	1:I:350:LYS:CE	2.14	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
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:173:GLN:NE2	6:K:334:PRO:HD3	1.93	0.78
6:K:276:ASP:CB	6:K:282:ASP:OD2	2.29	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
6:y:170:MET:O	6:y:174:LYS:HD3	1.84	0.78
6:y:184:PRO:CB	6:y:191:TYR:OH	2.32	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
2:H:259:GLU:O	2:H:263:MET:HG3	1.83	0.78
3:L:200:SER:OG	3:L:238:ILE:HG22	1.83	0.78
5:J:148:TYR:CD1	5:J:202:ALA:HB1	2.17	0.78
11:R:197:ALA:HB1	11:R:201:PHE:CD2	2.17	0.78
2:v:299:MET:HE3	2:v:328:ASP:CB	2.11	0.78
1:w:249:ARG:NH2	5:x:278:ASN:HB2	1.98	0.78
5:x:207:THR:CG2	5:x:209:CYS:SG	2.71	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:214:VAL:HG11	5:x:234:LEU:HD22	1.62	0.78
3:z:57:VAL:HG12	3:z:74:THR:HG21	1.65	0.78
7:1:497:LEU:O	7:1:501:LEU:N	2.12	0.78
11:5:48:ASN:HB2	11:5:50:MET:SD	2.24	0.78
11:5:225:TYR:HE1	11:5:256:VAL:CB	1.96	0.78
14:8:12:HIS:HD2	14:8:51:SER:HA	1.46	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
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
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
6:K:207:PRO:HD2	6:K:333:PHE:O	1.82	0.78
11:R:127:THR:C	11:R:131:THR:HG23	2.07	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
2:v:299:MET:CE	2:v:328:ASP:CG	2.50	0.78
1:w:290:ILE:HD13	1:w:309:MET:SD	2.24	0.78
3:z:148:VAL:HA	3:z:167:PRO:HG2	1.65	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
1:I:207:HIS:CG	1:I:210:TYR:OH	2.37	0.78
5:J:41:ASN:CA	5:J:44:ARG:HB2	2.14	0.78
5:J:204:ALA:HB1	5:J:211:PHE:HB2	1.64	0.78
18:Z:238:ASN:HA	18:Z:245:ASN:H	1.47	0.78
1:w:110:GLY:O	1:w:150:VAL:N	2.15	0.78
1:w:285:ASP:OD1	1:w:330:ALA:CB	2.31	0.78
5:x:41:ASN:CA	5:x:44:ARG:HB2	2.14	0.78
5:x:193:GLY:N	33:x:501:ADP:O2B	2.16	0.78
6:y:109:SER:HB2	6:y:111:TYR:CE2	2.18	0.78
3:z:318:GLY:O	3:z:320:ILE:N	2.16	0.78
3:z:327:ASP:OD2	3:z:330:ALA:HB3	1.82	0.78
3:z:353:PHE:CA	3:z:356:ARG:HB2	2.14	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
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:107:MET:HE3	1:I:160:ILE:HB	1.64	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
3:L:98:VAL:HA	3:L:110:TYR:HA	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:249:LEU:HB3	4:M:283:ILE:HA	1.64	0.78
6:K:109:SER:HB2	6:K:111:TYR:CE2	2.18	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
15:V:248:MET:HE1	15:V:288:VAL:HG23	1.64	0.78
5:x:78:ARG:NH1	5:x:80:MET:HG2	1.99	0.78
3:z:251:ARG:O	3:z:255:ARG:HG2	1.84	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:310:LEU:HD23	2:H:279:ALA:HB2	1.64	0.78
5:J:78:ARG:NH1	5:J:80:MET:HG2	1.99	0.78
5:J:298:ILE:CG2	5:J:301:LEU:HD21	2.13	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
5:x:247:PHE:C	5:x:248:MET:HG3	2.07	0.78
3:z:56:ILE:CD1	4:0:132:TYR:CE1	2.67	0.78
3:z:197:LYS:NZ	4:0:320:PHE:CE2	2.50	0.78
4:0:384:LEU:C	4:0:387:CYS:HG	1.90	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
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
5:x:149:GLU:CG	11:5:133:ALA:HB1	2.13	0.78
3:z:383:LYS:CG	3:z:386:TYR:OH	2.27	0.78
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
15:9:248:MET:HE1	15:9:288:VAL:HG23	1.64	0.78
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
2:H:119:ALA:CB	4:M:127:SER:O	2.32	0.77
3:L:121:ASN:O	3:L:125:GLU:HB3	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:Q:279:TYR:O	10:Q:280:ALA:C	2.25	0.77
20:C:198:PHE:HE1	20:C:202:MET:HA	1.48	0.77
27:b:172:ASN:OD1	27:b:191:VAL:HG22	1.84	0.77
2:v:279:ALA:HB2	1:w:310:LEU:CD2	2.14	0.77
1:w:207:HIS:CG	1:w:210:TYR:OH	2.37	0.77
5:x:151:ILE:O	5:x:152:GLY:C	2.26	0.77
3:z:122:MET:CE	3:z:218:MET:HG2	2.14	0.77
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
14:8:74:TYR:HD1	15:9:98:MET:HE1	1.48	0.77
15:9:248:MET:HE3	15:9:284:LEU:HA	1.64	0.77
16:AA:2:VAL:HG13	16:AA:4:GLU:HG2	1.66	0.77
1:I:275:GLU:CG	1:I:322:ARG:NH1	2.46	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
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
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
11:R:387:ILE:HD13	14:U:276:ILE:HG12	1.66	0.77
14:U:70:LEU:HD13	14:U:111:LEU:CD2	2.03	0.77
15:V:267:PRO:CD	15:V:268:GLU:OE1	2.28	0.77
1:w:342:ILE:HG23	1:w:350:LYS:CE	2.14	0.77
5:x:193:GLY:O	5:x:355:SER:HB2	1.85	0.77
5:x:195:GLY:HA3	33:x:501:ADP:N7	1.98	0.77
6:y:411:GLU:HG2	6:y:412:GLN:N	1.97	0.77
3:z:114:GLU:HB2	4:0:95:GLU:OE2	1.85	0.77
4:0:295:ARG:HD2	4:0:339:ASP:CG	2.07	0.77
7:1:164:GLU:C	7:1:165:LYS:HG3	2.07	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:M:310:MET:CE	4:M:339:ASP:CB	2.62	0.77
6:K:345:PHE:CG	6:K:360:LEU:HD23	2.19	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
2:v:315:ILE:HD12	2:v:315:ILE:N	1.98	0.77
1:w:197:ILE:HG21	1:w:235:LEU:HD11	1.67	0.77
6:y:163:MET:HG2	6:y:221:HIS:CE1	2.11	0.77
7:1:474:ARG:O	7:1:478:SER:CB	2.33	0.77
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
1:I:401:GLU:CG	1:I:422:SER:HB2	2.14	0.77
2:H:90:GLU:O	2:H:93:LEU:HB2	1.85	0.77
3:L:148:VAL:CG2	3:L:167:PRO:HG2	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
5:J:194:THR:C	33:J:501:ADP:N7	2.42	0.77
8:O:4:VAL:CG2	8:O:26:GLU:CD	2.58	0.77
13:T:344:ARG:O	13:T:348:MET:N	2.17	0.77
2:v:301:GLU:OE1	4:0:254:PRO:CB	2.31	0.77
1:w:106:PRO:CG	5:x:121:TYR:CB	2.62	0.77
1:w:200:SER:O	1:w:219:PRO:HD2	1.84	0.77
5:x:279:GLN:O	5:x:284:GLU:CG	2.31	0.77
3:z:153:LEU:HD12	3:z:154:THR:HG23	1.67	0.77
3:z:219:PHE:O	3:z:223:ARG:CG	2.32	0.77
3:z:338:PHE:CD1	3:z:378:LYS:CE	2.66	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
1:I:106:PRO:CG	5:J:121:TYR:CB	2.62	0.77
1:I:164:MET:HE3	5:J:78:ARG:HH12	1.46	0.77
1:I:187:ILE:HD12	1:I:190:LEU:CD1	2.13	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
5:J:388:ALA:O	5:J:392:GLN:N	2.18	0.77
10:Q:203:PRO:O	10:Q:207:GLN:HB2	1.85	0.77
11:R:33:GLY:H	11:R:34:ASP:HB3	1.49	0.77
11:R:201:PHE:O	11:R:204:THR:OG1	2.01	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:b:172:ASN:CG	27:b:191:VAL:HG22	2.09	0.77
2:v:47:GLN:O	2:v:51:ASP:N	2.14	0.77
1:w:365:PHE:CZ	1:w:395:ILE:HG23	2.20	0.77
3:z:20:LYS:O	3:z:24:GLY:N	2.16	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
16:AA:161:ASN:HD21	16:AA:164:ASP:HA	1.49	0.77
2:H:299:MET:CE	2:H:328:ASP:CG	2.50	0.77
3:L:195:PHE:CE1	3:L:229:ILE:CB	2.68	0.77
5:J:214:VAL:CG2	5:J:234:LEU:HD11	2.15	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
2:v:111:TYR:HE1	2:v:125:LEU:HD23	1.40	0.77
2:v:119:ALA:CB	4:0:127:SER:O	2.32	0.77
2:v:233:THR:O	2:v:234:ASP:CB	2.30	0.77
1:w:275:GLU:CG	1:w:322:ARG:NH1	2.46	0.77
5:x:354:ALA:CB	5:x:358:GLU:OE1	2.33	0.77
6:y:94:GLU:O	6:y:102:ILE:N	2.18	0.77
6:y:345:PHE:CG	6:y:360:LEU:HD23	2.19	0.77
6:y:372:GLY:CA	6:y:375:ILE:CD1	2.61	0.77
3:z:354:ALA:HB1	4:0:215:LEU:CD1	2.13	0.77
4:0:91:SER:HB2	4:0:124:ILE:CG2	2.15	0.77
8:2:4:VAL:CG1	8:2:26:GLU:CD	2.58	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
1:I:118:ASP:CG	1:I:120:HIS:HE2	1.91	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
4:M:375:VAL:C	4:M:414:GLU:HG3	2.10	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
2:v:87:LEU:HD13	1:w:136:LEU:HD22	1.65	0.77
1:w:140:ASP:HB3	1:w:143:LEU:HG	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:247:PHE:HE2	5:x:283:PHE:HZ	1.33	0.77
5:x:31:LEU:HD13	12:6:201:ARG:HH12	1.49	0.77
3:z:121:ASN:O	3:z:125:GLU:HB3	1.84	0.77
3:z:326:ILE:CG2	3:z:328:TYR:CD2	2.68	0.77
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:94:GLU:HG3	1:I:98:LYS:HE3	1.66	0.77
2:H:346:PRO:HB2	2:H:351:ARG:HG2	1.65	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
6:K:216:ALA:HB2	6:K:263:PHE:CE2	2.20	0.77
18:Z:654:VAL:CB	18:Z:685:THR:CB	2.62	0.77
6:y:146:GLU:OE1	3:z:70:ILE:CD1	2.33	0.77
3:z:282:PRO:HB2	3:z:388:PRO:HB3	1.66	0.77
4:0:375:VAL:C	4:0:414:GLU:HG3	2.10	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
1:I:122:ILE:HD11	1:I:130:GLU:CA	2.15	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
3:L:67:GLU:O	3:L:82:GLY:CA	2.29	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
4:M:272:PHE:CD2	4:M:316:GLN:CB	2.68	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
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
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
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
2:v:161:VAL:CG2	2:v:259:GLU:HB2	2.15	0.77
2:v:330:ALA:CB	2:v:336:ARG:NH1	2.46	0.77
2:v:330:ALA:CB	2:v:336:ARG:HH11	1.97	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:94:GLU:HG3	1:w:98:LYS:HE3	1.66	0.77
5:x:143:VAL:CG1	5:x:213:ARG:NE	2.47	0.77
6:y:179:GLU:O	6:y:184:PRO:CG	2.32	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
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
2:H:330:ALA:CB	2:H:336:ARG:HH11	1.97	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
27:b:32:SER:HB2	27:b:187:ARG:NH2	2.00	0.77
2:v:256:MET:O	2:v:260:LEU:HD13	1.84	0.77
1:w:111:THR:HA	1:w:149:SER:HA	1.67	0.77
1:w:187:ILE:HD11	1:w:194:ILE:CD1	2.15	0.77
4:0:310:MET:CE	4:0:339:ASP:CB	2.62	0.77
8:2:9:GLN:O	8:2:13:ASN:HB3	1.84	0.77
8:2:58:LYS:HA	8:2:61:GLU:HB2	1.67	0.77
11:5:228:MET:CE	11:5:271:PHE:HE2	1.97	0.77
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
1:w:401:GLU:CG	1:w:422:SER:HB2	2.14	0.76
5:x:189:TYR:CE2	5:x:316:GLU:CB	2.62	0.76
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
3:L:236:ASP:HB2	4:M:311:LEU:HD11	1.68	0.76
6:K:179:GLU:O	6:K:184:PRO:CG	2.32	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
18:Z:227:ALA:O	18:Z:228:LYS:C	2.26	0.76
2:v:174:TYR:CD2	2:v:184:ILE:HG21	2.20	0.76
6:y:116:LEU:CA	6:y:119:ILE:HD13	2.15	0.76
6:y:176:GLU:CG	6:y:331:ILE:HD11	2.13	0.76
6:y:246:MET:O	6:y:249:ASP:N	2.18	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
4:M:272:PHE:HD2	4:M:316:GLN:HB3	1.46	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
9:P:87:ILE:O	9:P:91:SER:N	2.17	0.76
10:Q:84:LYS:CE	10:Q:88:LEU:HD23	2.11	0.76
10:Q:104:GLY:O	10:Q:108:GLU:N	2.19	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
1:w:106:PRO:HG3	5:x:121:TYR:HB2	1.65	0.76
1:w:106:PRO:HG3	5:x:121:TYR:HB3	1.67	0.76
1:w:118:ASP:CG	1:w:120:HIS:HE2	1.91	0.76
5:x:151:ILE:CD1	5:x:198:LEU:CB	2.63	0.76
6:y:216:ALA:HB2	6:y:263:PHE:CE2	2.20	0.76
3:z:180:LYS:HG2	3:z:301:ILE:HD12	1.66	0.76
3:z:325:GLU:CD	3:z:364:GLN:HG2	2.10	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
15:9:138:GLU:O	15:9:161:ARG:NH2	2.17	0.76
1:I:249:ARG:NH2	5:J:278:ASN:HB2	1.98	0.76
1:I:264:PRO:HA	1:I:311:GLU:HG2	1.68	0.76
3:L:163:GLY:O	3:L:164:ILE:HG13	1.85	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:322:LYS:HZ2	3:z:326:ILE:HD12	1.50	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
1:I:107:MET:CE	1:I:160:ILE:HB	2.16	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
1:w:187:ILE:CD1	1:w:190:LEU:HD12	2.15	0.76
1:w:290:ILE:HD11	1:w:309:MET:HG2	1.66	0.76
10:4:37:GLU:CB	10:4:39:ASP:N	2.48	0.76
10:4:194:ARG:HH12	10:4:214:SER:HB3	1.51	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
3:L:57:VAL:HG12	3:L:74:THR:HG21	1.65	0.76
3:L:122:MET:CE	3:L:218:MET:HG2	2.14	0.76
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
5:x:373:GLU:HG2	5:x:375:ARG:HD3	1.66	0.76
6:y:163:MET:HA	6:y:221:HIS:ND1	2.01	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
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
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
5:J:151:ILE:O	5:J:152:GLY:C	2.26	0.76
6:K:116:LEU:CA	6:K:119:ILE:HD13	2.15	0.76
6:K:163:MET:HA	6:K:221:HIS:ND1	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:265:ASP:O	12:S:268:GLU:CG	2.33	0.76
14:U:48:LEU:CD1	14:U:120:VAL:HG21	2.15	0.76
14:U:101:LEU:CD2	14:U:138:TYR:CE2	2.68	0.76
1:w:107:MET:CE	1:w:160:ILE:HB	2.16	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
12:6:278:GLU:O	12:6:279:GLN:C	2.29	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
3:L:87:LEU:O	3:L:88:ASP:HB2	1.85	0.76
3:L:219:PHE:O	3:L:223:ARG:CG	2.32	0.76
4:M:91:SER:HB2	4:M:124:ILE:CG2	2.15	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
7:N:413:LYS:HA	7:N:449:ILE:HG12	1.67	0.76
8:O:370:GLN:C	13:T:340:ILE:HG21	2.11	0.76
2:v:151:ILE:HG22	2:v:152:PRO:CD	2.15	0.76
5:x:388:ALA:O	5:x:392:GLN:N	2.18	0.76
6:y:115:ILE:CD1	6:y:121:ARG:HH11	1.97	0.76
3:z:97:ARG:NH2	3:z:112:PRO:O	2.18	0.76
3:z:148:VAL:CG2	3:z:167:PRO:HG2	2.14	0.76
3:z:195:PHE:CE1	3:z:229:ILE:CB	2.68	0.76
8:2:370:GLN:C	13:7:340:ILE:HG21	2.11	0.76
11:5:183:TYR:HE1	11:5:213:LEU:HD11	0.99	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
10:Q:212:MET:HE1	10:Q:249:THR:HG22	1.68	0.76
11:R:263:LEU:HB2	11:R:271:PHE:HE2	1.51	0.76
1:w:290:ILE:O	1:w:305:ILE:HG21	1.86	0.76
5:x:70:GLY:O	5:x:118:ASN:OD1	2.04	0.76
6:y:124:LEU:O	6:y:125:LYS:O	2.04	0.76
6:y:145:PRO:HG2	6:y:256:GLU:CG	2.13	0.76
6:y:378:ILE:HG23	6:y:402:ALA:CB	2.16	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: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
2:H:112:ILE:CG1	2:H:122:VAL:HG22	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:30:GLU:O	5:J:34:ILE:CD1	2.33	0.76
5:J:151:ILE:CD1	5:J:198:LEU:CB	2.63	0.76
5:J:335:LYS:CA	11:R:173:ASP:HB3	2.05	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
14:U:79:TYR:CE2	14:U:91:ILE:HG12	2.16	0.76
19:B:103:TYR:O	27:b:81:ARG:NH1	2.18	0.76
5:x:25:LEU:HD11	7:1:105:ILE:HD13	1.67	0.76
5:x:343:ASN:HB3	5:x:346:LYS:HD3	1.67	0.76
3:z:163:GLY:O	3:z:164:ILE:HG13	1.85	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
4:M:136:VAL:C	4:M:138:GLY:H	1.94	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
9:P:408:ARG:CB	10:Q:345:VAL:HA	2.16	0.75
10:Q:117:ALA:O	10:Q:121:LYS:N	2.18	0.75
11:R:21:GLN:CG	11:R:286:TRP:CZ3	2.69	0.75
12:S:469:THR:CG2	14:U:250:TYR:CD2	2.69	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
2:v:365:GLU:HB2	2:v:404:ALA:O	1.87	0.75
1:w:320:ASP:OD1	1:w:321:SER:N	2.13	0.75
6:y:93:LEU:CB	6:y:102:ILE:O	2.34	0.75
6:y:214:MET:SD	33:y:501:ADP:H2'	2.26	0.75
3:z:200:SER:OG	3:z:238:ILE:CG2	2.34	0.75
3:z:236:ASP:HB2	4:0:311:LEU:HD11	1.68	0.75
4:0:54:ILE:O	4:0:58:GLU:N	2.16	0.75
4:0:272:PHE:HD2	4:0:316:GLN:HB3	1.46	0.75
7:1:58:GLN:HB3	7:1:84:ALA:HA	1.67	0.75
8:2:342:ASP:CG	8:2:343:LEU:H	1.94	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
18:AC:227:ALA:O	18:AC:228:LYS:C	2.26	0.75
1:I:283:PHE:CD1	1:I:328:ILE:HG21	2.21	0.75
3:L:175:PRO:HD2	3:L:178:THR:HG21	1.67	0.75
5:J:127:LEU:HD13	6:K:102:ILE:HD11	1.68	0.75
11:R:54:TYR:OH	11:R:65:ILE:O	2.03	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
18:Z:792:ALA:CB	18:Z:824:ALA:CB	2.55	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
2:v:233:THR:HG23	2:v:234:ASP:H	1.51	0.75
1:w:122:ILE:CD1	1:w:130:GLU:C	2.59	0.75
1:w:283:PHE:CE1	1:w:328:ILE:HG21	2.20	0.75
5:x:43:ARG:HA	5:x:46:GLN:OE1	1.86	0.75
5:x:214:VAL:CG2	5:x:234:LEU:HD11	2.15	0.75
3:z:67:GLU:O	3:z:82:GLY:CA	2.29	0.75
3:z:132:TYR:HD2	3:z:146:ARG:HE	1.34	0.75
4:0:237:ALA:CB	4:0:284: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
15:9:237:HIS:C	15:9:237:HIS:CD2	2.65	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
2:v:276:GLU:OE2	1:w:313:LEU:CD2	2.34	0.75
6:y:87:LEU:HB3	6:y:132:LEU:O	1.86	0.75
6:y:258:ALA:HB1	6:y:259:PRO:CD	2.16	0.75
3:z:87:LEU:O	3:z:88:ASP:HB2	1.85	0.75
3:z:171:LEU:HD12	3:z:277:MET:C	2.11	0.75
3:z:175:PRO:HD2	3:z:178:THR:HG21	1.67	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
11:5:71:ASN:O	11:5:75:LYS:HG3	1.85	0.75
2:H:330:ALA:O	2:H:336:ARG:NE	2.19	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
27:p:209:THR:HG21	28:q:168:SER:HB3	1.68	0.75
1:w:189:GLY:HA3	1:w:360:THR:CB	2.17	0.75
5:x:151:ILE:HD11	5:x:198:LEU:CB	2.16	0.75
6:y:270:ILE:HD12	6:y:288:ILE:HG21	1.67	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
14:8:21:ASP:O	14:8:25:ARG:HB2	1.85	0.75
14:8:94:TRP:HH2	14:8:121:LEU:HD22	1.49	0.75
15:9:89:PRO:HD2	15:9:90:VAL:H	1.49	0.75
1:I:313:LEU:CD2	2:H:276:GLU:OE2	2.34	0.75
2:H:151:ILE:HG22	2:H:152:PRO:CD	2.15	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
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
14:U:22:HIS:CD2	14:U:35:VAL:HG13	1.95	0.75
24:m:239:ARG:NH1	24:m:239:ARG:H	1.84	0.75
1:w:356:PRO:HB2	1:w:361:LYS:HE3	1.68	0.75
5:x:137:LEU:HD13	5:x:220:VAL:HG13	0.76	0.75
5:x:149:GLU:OE2	11:5:134:LEU:N	2.20	0.75
6:y:211:GLY:CA	33:y:501:ADP:O1A	2.34	0.75
6:y:371:SER:C	6:y:375:ILE:HD11	2.11	0.75
3:z:93:LYS:HB3	3:z:94:PRO:CD	2.17	0.75
7:1:559:ARG:HB3	7:1:562:GLU:HB2	1.68	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
3:L:20:LYS:O	3:L:24:GLY:N	2.16	0.75
4:M:236:LEU:CD1	4:M:354:PHE:CZ	2.69	0.75
4:M:237:ALA:HB1	4:M:284:PHE:CD2	2.21	0.75
4:M:310:MET:HE1	4:M:339:ASP:CG	2.11	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
8:O:242:SER:O	8:O:279:GLU:CD	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:30:GLU:O	5:x:34:ILE:CD1	2.33	0.75
7:1:160:LEU:O	7:1:164:GLU:N	2.18	0.75
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
1:I:111:THR:HA	1:I:149:SER:HA	1.67	0.75
3:L:171:LEU:HD12	3:L:277:MET:C	2.11	0.75
4:M:169:ASP:CB	4:M:172:VAL:CG2	2.64	0.75
5:J:137:LEU:HD13	5:J:220:VAL:HG13	0.76	0.75
5:J:354:ALA:HA	5:J:358:GLU:CD	2.10	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
8:O:342:ASP:CG	8:O:343:LEU:H	1.94	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
2:v:284:ARG:HG3	2:v:296:GLN:NE2	2.01	0.75
1:w:264:PRO:HA	1:w:311:GLU:HG2	1.68	0.75
1:w:387:LYS:CG	1:w:390:LEU:HB3	2.17	0.75
5:x:26:SER:O	5:x:29:GLU:HB2	1.86	0.75
3:z:151:LEU:N	3:z:152:PRO:HD2	2.01	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:200:SER:C	1:I:219:PRO:CG	2.59	0.75
5:J:343:ASN:HB3	5:J:346:LYS:HD3	1.67	0.75
19:h:208:ILE:O	19:h:209:ASP:OD1	2.05	0.75
5:x:137:LEU:CB	5:x:224:ILE:HD11	2.16	0.75
5:x:391:MET:HA	5:x:394:ASP:HB2	1.69	0.75
3:z:244:SER:H	3:z:245:GLU:HA	1.52	0.75
4:0:136:VAL:C	4:0:138:GLY:H	1.94	0.75
4:0:310:MET:HE1	4:0:339:ASP:CG	2.11	0.75
9:3:274:VAL:HG12	9:3:287:VAL:CG2	2.17	0.75
9:3:406:VAL:O	10:4:343:SER:N	2.19	0.75
10:4:253:TYR:HD1	10:4:319:ILE:HD11	0.98	0.75
10:4:255:LEU:HB2	10:4:287:LEU:HD13	1.69	0.75
15:9:248:MET:HE2	15:9:284:LEU:CD2	2.17	0.75
1:I:122:ILE:CD1	1:I:130:GLU:C	2.59	0.75
1:I:421:LYS:O	1:I:425:ASN:CB	2.28	0.75
3:L:264:MET:CG	3:L:275:MET:HE1	2.17	0.75
3:L:321:THR:OG1	3:L:361:PHE:HA	1.87	0.75
4:M:304:ARG:O	4:M:308:ARG:HG3	1.87	0.75
6:K:207:PRO:HG2	6:K:335:LEU:CG	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
20:C:44:VAL:HG22	20:C:183:LEU:HD11	1.69	0.75
23:F:33:LEU:HD21	2:v:378:PRO:HG2	1.68	0.75
23:F:207:GLU:HG2	2:v:372:LEU:HD11	1.69	0.75
2:v:88:GLN:O	2:v:91:GLN:HB2	1.86	0.75
3:z:387:LYS:HG2	3:z:388:PRO:CD	2.17	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
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
2:H:114:ASN:H	2:H:114:ASN:HD22	1.33	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
6:K:87:LEU:HB3	6:K:132:LEU:O	1.86	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
2:v:114:ASN:HD22	2:v:114:ASN:H	1.33	0.74
1:w:187:ILE:HD12	1:w:190:LEU:CD1	2.13	0.74
5:x:127:LEU:HD13	6:y:102:ILE:HD11	1.68	0.74
5:x:188:LEU:HB2	5:x:294:ALA:CB	2.17	0.74
3:z:145:LEU:CD1	3:z:299:ILE:CD1	2.65	0.74
3:z:227:PRO:HD3	3:z:272:ARG:HD3	1.68	0.74
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
15:9:48:GLY:O	15:9:49:VAL:C	2.30	0.74
18:AC:498:LEU:O	18:AC:502:LEU:N	2.15	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
3:L:145:LEU:CD1	3:L:299:ILE:CD1	2.65	0.74
3:L:325:GLU:CD	3:L:364:GLN:HG2	2.10	0.74
5:J:70:GLY:O	5:J:118:ASN:OD1	2.04	0.74
5:J:391:MET:HA	5:J:394:ASP:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:283:ARG:O	6:K:287:ARG:HG3	1.86	0.74
12:S:278:GLU:O	12:S:279:GLN:C	2.29	0.74
5:x:193:GLY:CA	33:x:501:ADP:O2B	2.35	0.74
3:z:109:ARG:HH11	3:z:109:ARG:HB3	1.52	0.74
3:z:257:LEU:O	3:z:257:LEU:HD22	1.86	0.74
4:0:288:LEU:H	4:0:332:THR:HG22	1.50	0.74
9:3:453:HIS:C	9:3:454:ASN:HD22	1.95	0.74
10:4:212:MET:HE1	10:4:249:THR:HG22	1.68	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: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
3:L:253:ILE:O	3:L:257:LEU:N	2.17	0.74
6:K:64:GLU:C	6:K:68:LEU:HD12	2.12	0.74
6:K:371:SER:C	6:K:375:ILE:HD11	2.11	0.74
6:K:378:ILE:HG23	6:K:402:ALA:CB	2.16	0.74
9:P:406:VAL:O	10:Q:343:SER:N	2.19	0.74
15:V:237:HIS:CD2	15:V:237:HIS:C	2.65	0.74
2:v:188:ARG:HG3	2:v:192:GLU:CB	2.16	0.74
2:v:387:SER:O	2:v:391:GLU:CB	2.29	0.74
1:w:109:VAL:HB	5:x:94:LYS:O	1.88	0.74
6:y:207:PRO:HG2	6:y:335:LEU:CG	2.16	0.74
6:y:247:VAL:CG1	6:y:251:PHE:CE2	2.71	0.74
6:y:293:LEU:HD22	6:y:326:ARG:HH12	0.93	0.74
3:z:321:THR:OG1	3:z:361:PHE:HA	1.87	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
2:H:161:VAL:HG13	2:H:260:LEU:CD1	2.17	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
15:V:101:GLN:HE21	16:W:101:GLN:CD	1.95	0.74
24:G:166:GLN:HE22	4:0:386:ARG:HB2	1.51	0.74
2:v:218:PRO:CD	2:v:429:TYR:CD2	2.71	0.74
2:v:246:VAL:C	2:v:247:GLN:NE2	2.43	0.74
6:y:354:LEU:CD1	6:y:394:VAL:HB	2.17	0.74
6:y:372:GLY:HA3	33:y:501:ADP:C8	2.23	0.74
3:z:253:ILE:O	3:z:257:LEU:N	2.17	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)
15:9:101:GLN:HE21	16:AA:101:GLN:CD	1.95	0.74
18:AC:444:ALA:O	18:AC:448:CYS:N	2.20	0.74
1:I:110:GLY:O	1:I:150:VAL:N	2.15	0.74
2:H:246:VAL:C	2:H:247:GLN:NE2	2.43	0.74
2:H:272:ILE:HD12	2:H:315:ILE:CG2	2.18	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
6:K:96:VAL:CG2	6:K:112:TYR:HE1	1.98	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
9:P:453:HIS:C	9:P:454:ASN:HD22	1.95	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
2:v:272:ILE:HD12	2:v:315:ILE:CG2	2.18	0.74
1:w:133:VAL:HG23	1:w:159:VAL:HG23	1.69	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
7:1:610:VAL:HG11	14:8:178:ASP:OD2	1.88	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
16:AA:15:TYR:CE2	16:AA:144:GLY:HA2	2.23	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
3:L:93:LYS:HB3	3:L:94:PRO:CD	2.17	0.74
5:J:149:GLU:OE2	11:R:134:LEU:N	2.20	0.74
6:K:409:LYS:O	6:K:412:GLN:NE2	2.19	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
15:V:248:MET:HE2	15:V:284:LEU:CD2	2.17	0.74
23:l:16:SER:OG	23:l:20:ARG:HG2	1.87	0.74
2:v:204:LEU:HD23	2:v:206:ILE:CG2	2.17	0.74
5:x:43:ARG:HG3	6:y:61:ILE:HG13	1.69	0.74
6:y:231:VAL:HG12	6:y:233:SER:H	1.52	0.74
3:z:254:GLN:O	3:z:257:LEU:N	2.19	0.74
3:z:338:PHE:CE1	3:z:378:LYS:HE3	2.23	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:183:GLN:NE2	2:H:342:GLU:O	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:242:GLY:CA	2:H:280:ILE:HG12	2.17	0.74
2:H:263:MET:O	2:H:267:LYS:CD	2.35	0.74
4:M:233:LYS:HD3	33:M:501:ADP:O1B	1.87	0.74
4:M:295:ARG:HD2	4:M:339:ASP:CG	2.07	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
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:194:ARG:HH12	10:Q:214:SER:HB3	1.51	0.74
10:Q:202:CYS:O	10:Q:206:LEU:HD22	1.88	0.74
14:U:179:ILE:HG22	15:V:218:LEU:HD21	1.70	0.74
2:v:242:GLY:CA	2:v:280:ILE:HG12	2.17	0.74
2:v:284:ARG:CG	2:v:296:GLN:CD	2.61	0.74
1:w:122:ILE:HD11	1:w:130:GLU:CA	2.15	0.74
1:w:263:GLY:N	1:w:264:PRO:CD	2.51	0.74
1:w:402:ALA:CB	1:w:414:VAL:HG11	2.08	0.74
1:w:405:MET:CE	1:w:421:LYS:HD2	2.17	0.74
6:y:96:VAL:CG2	6:y:112:TYR:CE1	2.70	0.74
3:z:195:PHE:CE1	3:z:229:ILE:HG21	2.22	0.74
3:z:264:MET:CG	3:z:275:MET:HE1	2.17	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
14:8:74:TYR:CD1	15:9:98:MET:HE1	2.23	0.74
14:8:179:ILE:HG22	15:9:218:LEU:HD21	1.70	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
3:L:113:ARG:HH11	3:L:113:ARG:HG3	1.53	0.74
3:L:254:GLN:O	3:L:255:ARG:C	2.30	0.74
4:M:74:LYS:HA	4:M:77:SER:OG	1.87	0.74
4:M:375:VAL:C	4:M:414:GLU:CG	2.61	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
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:99:GLU:N	11:R:99:GLU:OE1	2.21	0.74
11:R:146:ARG:NH1	11:R:213:LEU:CD1	2.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W:131:LEU:O	16:W:135:LYS:N	2.21	0.74
2:v:102:ILE:CD1	2:v:120:LYS:HD2	2.18	0.74
2:v:183:GLN:NE2	2:v:342:GLU:O	2.21	0.74
1:w:112:LEU:N	1:w:148:CYS:O	2.21	0.74
5:x:189:TYR:CG	5:x:298:ILE:HD11	2.21	0.74
6:y:299:PHE:CD1	6:y:303:VAL:HG11	2.22	0.74
3:z:113:ARG:HH11	3:z:113:ARG:HG3	1.53	0.74
8:2:242:SER:O	8:2:279:GLU:CD	2.30	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
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
2:H:402:LYS:HE2	2:H:403:ILE:HG12	1.70	0.74
3:L:244:SER:N	3:L:245:GLU:HA	2.02	0.74
6:K:176:GLU:CG	6:K:331:ILE:HD11	2.13	0.74
6:K:222:HIS:O	6:K:223:THR:O	2.05	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
15:V:265:MET:HE2	15:V:273:LYS:HE3	1.70	0.74
31:f:153:VAL:HG13	31:f:166:LEU:HD23	1.69	0.74
1:w:108:SER:HA	5:x:95:PHE:CD1	2.23	0.74
3:z:244:SER:N	3:z:245:GLU:HA	2.02	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
9:3:78:LYS:HA	9:3:79:GLU:C	2.13	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
5:J:43:ARG:HA	5:J:46:GLN:OE1	1.86	0.74
18:Z:684:PRO:O	18:Z:688:ARG:N	2.17	0.74
2:v:330:ALA:O	2:v:336:ARG:NE	2.19	0.74
1:w:283:PHE:CD1	1:w:328:ILE:HG21	2.21	0.74
1:w:288:ASP:O	1:w:292:THR:HG22	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:235:PHE:HB2	6:y:270:ILE:HD11	1.70	0.74
6:y:354:LEU:HD21	6:y:399:PHE:CZ	2.21	0.74
4:0:206:MET:HB2	4:0:327:LYS:HZ1	1.51	0.74
4:0:380:ASN:HB3	4:0:383:GLU:CD	2.13	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
11:5:146:ARG:NH1	11:5:213:LEU:CD1	2.51	0.74
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
2:H:119:ALA:CB	4:M:127:SER:HB3	2.11	0.73
3:L:338:PHE:CE1	3:L:378:LYS:HE3	2.23	0.73
6:K:235:PHE:HB2	6:K:270:ILE:HD11	1.70	0.73
6:K:246:MET:O	6:K:249:ASP:N	2.18	0.73
7:N:11:LEU:HD21	13:T:120:LYS:CG	2.16	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
5:x:193:GLY:HA2	33:x:501:ADP:O2B	1.88	0.73
6:y:283:ARG:O	6:y:287:ARG:HG3	1.86	0.73
3:z:254:GLN:O	3:z:255:ARG:C	2.30	0.73
7:1:791:LEU:HB2	7:1:913:ILE:HA	1.70	0.73
11:5:228:MET:CE	11:5:263:LEU:HD22	2.17	0.73
1:I:190:LEU:HD13	1:I:194:ILE:CD1	2.19	0.73
2:H:204:LEU:HD23	2:H:206:ILE:CG2	2.17	0.73
3:L:238:ILE:HD12	3:L:257:LEU:CB	2.08	0.73
3:L:248:SER:HB3	6:K:279:THR:HG21	1.70	0.73
4:M:399:VAL:HG23	4:M:427:VAL:CG1	2.17	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
12:S:285:TRP:HD1	12:S:315:LYS:HG2	1.52	0.73
28:c:28:PHE:HB3	28:c:36:THR:HG22	1.70	0.73
21:j:6:ASP:OD2	22:k:3:TYR:OH	2.05	0.73
2:v:402:LYS:HE2	2:v:403:ILE:HG12	1.70	0.73
6:y:299:PHE:CE1	6:y:303:VAL:HG11	2.23	0.73
4:0:136:VAL:C	4:0:138:GLY:N	2.46	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:810:THR:H	7:N:888:GLN:HE22	1.35	0.73
8:O:4:VAL:CG2	8:O:26:GLU:OE1	2.35	0.73
8:O:245:VAL:CB	8:O:276:CYS:SG	2.76	0.73
14:U:74:TYR:CD1	15:V:98:MET:HE1	2.23	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
24:G:166:GLN:NE2	4:0:386:ARG:HB3	2.04	0.73
27:b:209:THR:HG21	28:c:168:SER:HB3	1.69	0.73
2:v:114:ASN:HB3	2:v:120:LYS:CG	2.18	0.73
1:w:107:MET:HE3	1:w:160:ILE:CB	2.19	0.73
1:w:180:PRO:HG3	1:w:241:ASN:N	2.01	0.73
1:w:234:LEU:HD13	33:w:501:ADP:C2	2.23	0.73
6:y:64:GLU:C	6:y:68:LEU:HD12	2.12	0.73
6:y:200:ARG:NH2	6:y:299:PHE:CB	2.51	0.73
6:y:210:CYS:HG	6:y:334:PRO:C	1.95	0.73
6:y:279:THR:HG21	3:z:248:SER:HB3	1.70	0.73
3:z:352:MET:O	3:z:356:ARG:CG	2.36	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
4:M:212:PHE:CD1	4:M:217:ILE:CD1	2.34	0.73
4:M:380:ASN:HB3	4:M:383:GLU:CD	2.13	0.73
5:J:338:LEU:HD22	5:J:342:ILE:HD12	1.70	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
2:v:345:LEU:HD12	2:v:430:MET:HE3	1.69	0.73
1:w:366:GLN:O	1:w:370:SER:CB	2.36	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
1:I:171:VAL:HG13	1:I:277:HIS:NE2	2.04	0.73
1:I:339:PRO:HB2	2:H:425:ALA:HB1	1.69	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
2:H:284:ARG:CG	2:H:296:GLN:CD	2.61	0.73
3:L:354:ALA:HB1	4:M:215:LEU:CD1	2.13	0.73
4:M:136:VAL:C	4:M:138:GLY:N	2.46	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
18:Z:784:ASP:CB	18:Z:895:GLU:O	2.36	0.73
24:G:166:GLN:HE21	4:0:383:GLU:C	1.95	0.73
2:v:180:CYS:SG	2:v:183:GLN:HG2	2.28	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:103:ARG:HG3	1:I:160:ILE:HG23	1.71	0.73
2:H:239:ARG:HG2	2:H:239:ARG:O	1.88	0.73
2:H:416:VAL:O	2:H:417:ILE:C	2.30	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
7:N:610:VAL:HG11	14:U:178:ASP:OD2	1.88	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
16:W:7:MET:HA	16:W:50:GLY:H	1.54	0.73
1:w:259:TYR:O	1:w:262:ASP:HB2	1.89	0.73
6:y:115:ILE:HD11	6:y:121:ARG:HH12	1.47	0.73
4:0:169:ASP:CB	4:0:172:VAL:CG2	2.64	0.73
4:0:202:ILE:HD11	4:0:329:ILE:CD1	2.18	0.73
4:0:375:VAL:C	4:0:414:GLU:CG	2.61	0.73
1:I:364:ILE:HG12	33:I:501:ADP:N6	2.04	0.73
3:L:132:TYR:HD2	3:L:146:ARG:HE	1.34	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
12:S:463:MET:O	12:S:465:ASP:N	2.21	0.73
30:e:166:ARG:CZ	29:r:140:LEU:HD13	2.18	0.73
5:x:30:GLU:C	5:x:34:ILE:HG13	2.06	0.73
6:y:384:MET:N	6:y:384:MET:SD	2.61	0.73
3:z:303:LEU:HD13	3:z:337:GLY:O	1.89	0.73
4:0:399:VAL:HG23	4:0:427:VAL:CG1	2.17	0.73
12:6:463:MET:C	12:6:465:ASP:N	2.46	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:80:ILE:HG21	4:M:84:LYS:CE	2.19	0.73
5:J:43:ARG:HG3	6:K:61:ILE:HG13	1.69	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
2:v:394:MET:CG	1:w:349:ARG:NH2	2.52	0.73
1:w:106:PRO:O	1:w:154:HIS:HD2	1.72	0.73
7:1:95:GLU:O	7:1:99:THR:N	2.22	0.73
7:1:601:ARG:O	7:1:605:VAL:HG23	1.88	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
13:7:335:LEU:HD23	15:9:303:MET:HE3	1.70	0.73
1:I:247:PHE:HE2	5:J:283:PHE:CZ	2.07	0.73
1:I:343:ARG:NH2	1:I:346:ARG:NH2	2.16	0.73
2:H:99:THR:CG2	2:H:142:VAL:HG23	2.18	0.73
2:H:229:VAL:O	2:H:233:THR:HB	1.89	0.73
3:L:109:ARG:HH11	3:L:109:ARG:HB3	1.52	0.73
4:M:295:ARG:HH11	4:M:295:ARG:CB	2.02	0.73
4:M:374:ASN:O	4:M:414:GLU:CA	2.36	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
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:46:LYS:CB	10:Q:88:LEU:HD11	2.19	0.73
10:Q:169:VAL:O	10:Q:173:GLU:HB2	1.88	0.73
11:R:237:ARG:HB3	11:R:264:TYR:CE1	2.24	0.73
6:y:170:MET:C	6:y:174:LYS:HD3	2.13	0.73
6:y:222:HIS:O	6:y:223:THR:O	2.05	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
1:I:259:TYR:O	1:I:262:ASP:HB2	1.89	0.73
2:H:114:ASN:HB3	2:H:120:LYS:CG	2.18	0.73
5:J:189:TYR:CG	5:J:298:ILE:HD11	2.21	0.73
6:K:94:GLU:O	6:K:102:ILE:N	2.18	0.73
8:O:9:GLN:O	8:O:13:ASN:CB	2.37	0.73
8:O:347:LYS:CE	8:O:351:ASP:OD2	2.37	0.73
9:P:154:GLU:CG	9:P:162:ALA:HB2	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:84:LYS:NZ	10:Q:88:LEU:CD2	2.52	0.73
10:Q:302:PHE:CD1	10:Q:330:LEU:HD11	2.23	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
24:m:239:ARG:O	24:m:239:ARG:HD2	1.89	0.73
1:w:190:LEU:HD13	1:w:194:ILE:CD1	2.19	0.73
6:y:141:ASP:OD1	6:y:142:VAL:N	2.22	0.73
9:3:304:ASP:CG	9:3:324:TYR:HH	1.96	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
4:M:223:VAL:HG12	4:M:224:LEU:N	2.04	0.72
6:K:322:LEU:HD13	6:K:330:LYS:HE3	1.71	0.72
8:O:35:HIS:N	16:W:14:GLU:OE2	2.21	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
16:W:157:VAL:O	16:W:168:SER:OG	2.08	0.72
2:v:166:VAL:O	2:v:168:GLU:N	2.22	0.72
1:w:234:LEU:CG	33:w:501:ADP:H2'	2.20	0.72
1:w:271:PHE:CZ	1:w:316:LEU:HD13	2.17	0.72
1:w:386:ALA:HB1	1:w:423:LYS:HE2	1.71	0.72
5:x:79:ALA:C	5:x:80:MET:HG3	2.14	0.72
5:x:150:MET:C	5:x:151:ILE:HG13	2.13	0.72
6:y:173:GLN:NE2	6:y:333:PHE:HA	2.03	0.72
6:y:366:ARG:NH1	6:y:403:TYR:HD2	1.86	0.72
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
18:AC:318:THR:C	18:AC:322:SER:CB	2.61	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
5:J:134:LEU:N	5:J:237:MET:HE1	2.04	0.72
6:K:247:VAL:CG1	6:K:251:PHE:CE2	2.71	0.72
9:P:78:LYS:HA	9:P:79:GLU:C	2.13	0.72
10:Q:194:ARG:NH1	10:Q:214:SER:CB	2.52	0.72
19:h:67:THR:HG22	19:h:69:LEU:H	1.54	0.72
2:v:334:PRO:O	2:v:334:PRO:CG	2.37	0.72
5:x:203:VAL:O	5:x:207:THR:HB	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:54:LEU:O	6:y:58:GLU:CB	2.30	0.72
6:y:116:LEU:CB	6:y:119:ILE:CD1	2.67	0.72
6:y:303:VAL:HG12	6:y:305:VAL:HG23	1.70	0.72
6:y:366:ARG:HH11	6:y:403:TYR:HD2	1.34	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
18:AC:765:ALA:O	18:AC:769:THR:N	2.21	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
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
5:J:203:VAL:O	5:J:207:THR:HB	1.89	0.72
6:K:170:MET:C	6:K:174:LYS:HD3	2.13	0.72
10:Q:212:MET:CE	10:Q:250:SER:HB2	2.19	0.72
13:T:335:LEU:HD23	15:V:303:MET:HE3	1.70	0.72
20:C:191:ILE:HG21	20:C:229:LEU:CD2	2.19	0.72
1:w:364:ILE:HG12	33:w:501:ADP:N6	2.04	0.72
1:w:423:LYS:CG	1:w:427:LEU:HD12	2.19	0.72
10:4:41:GLU:O	10:4:45:VAL:N	2.21	0.72
10:4:212:MET:CE	10:4:250:SER:HB2	2.19	0.72
13:7:164:PHE:O	13:7:168:MET:N	2.17	0.72
15:9:265:MET:HE2	15:9:273:LYS:HE3	1.70	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
1:I:154:HIS:HE1	5:J:95:PHE:CE1	2.08	0.72
2:H:125:LEU:HD13	2:H:129:VAL:CG2	2.19	0.72
2:H:125:LEU:CD1	2:H:129:VAL:CG2	2.67	0.72
2:H:166:VAL:O	2:H:168:GLU:N	2.22	0.72
3:L:322:LYS:HZ2	3:L:326:ILE:HD12	1.51	0.72
5:J:150:MET:C	5:J:151:ILE:HG13	2.13	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
11:R:348:ASP:HB3	11:R:353:ILE:HG22	1.69	0.72
18:Z:318:THR:C	18:Z:322:SER:CB	2.61	0.72
18:Z:403:LYS:O	18:Z:404:ASP:CB	2.36	0.72
2:v:425:ALA:HB1	1:w:339:PRO:HB2	1.69	0.72
1:w:180:PRO:HG2	1:w:241:ASN:CA	2.19	0.72
1:w:223:ILE:HD11	1:w:347:ILE:HG21	1.67	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:230:VAL:CG1	6:y:235:PHE:CE1	2.72	0.72
6:y:395:LEU:N	6:y:398:ASP:OD2	2.22	0.72
4:0:83:ASN:HA	4:0:161:LEU:CD1	2.17	0.72
4:0:402:GLU:OE2	4:0:426:GLU:OE1	2.07	0.72
7:1:427:LEU:HB3	7:1:428:PRO:CD	2.18	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
1:I:180:PRO:HG2	1:I:241:ASN:CA	2.19	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
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
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
11:R:134:LEU:CD1	11:R:138:LEU:CG	2.68	0.72
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:v:83:ASP:O	2:v:87:LEU:N	2.20	0.72
1:w:112:LEU:HB2	1:w:148:CYS:H	1.53	0.72
1:w:154:HIS:HE1	5:x:95:PHE:CE1	2.08	0.72
6:y:370:ILE:HG23	6:y:374:ASP:HB2	1.72	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
3:L:101:ASP:OD2	3:L:104: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:97:ASP:OD1	6:K:98:GLN:N	2.23	0.72
6:K:267:ILE:CD1	6:K:309:MET:HB3	2.15	0.72
6:K:299:PHE:CE1	6:K:303:VAL:HG11	2.23	0.72
6:K:381:GLU:HG3	6:K:405:THR:HG21	1.71	0.72
7:N:714:SER:O	7:N:718:ASN:N	2.19	0.72
9:P:304:ASP:CG	9:P:324:TYR:HH	1.95	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
27:b:32:SER:CA	27:b:187:ARG:HH21	2.02	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:111:TYR:HH	2:v:131:PRO:HA	1.54	0.72
1:w:171:VAL:HG13	1:w:277:HIS:NE2	2.04	0.72
6:y:97:ASP:OD1	6:y:98:GLN:N	2.23	0.72
3:z:101:ASP:OD2	3:z:104:THR:N	2.23	0.72
4:0:223:VAL:HG12	4:0:224:LEU:N	2.04	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
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
18:Z:765:ALA:O	18:Z:769:THR:N	2.21	0.72
2:v:239:ARG:O	2:v:239:ARG:HG2	1.88	0.72
5:x:162:LYS:HG3	5:x:166:GLU:CD	2.14	0.72
5:x:338:LEU:HD22	5:x:342:ILE:HD12	1.70	0.72
5:x:354:ALA:HA	5:x:358:GLU:CD	2.10	0.72
6:y:95:ALA:HA	6:y:101:ALA:CA	2.18	0.72
3:z:166:PRO:HB2	3:z:274:LYS:NZ	2.05	0.72
4:0:295:ARG:HH11	4:0:295:ARG:CB	2.02	0.72
7:1:347:ASN:HD22	7:1:743:ASN:HD21	1.36	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
10:4:194:ARG:NH1	10:4:214:SER:CB	2.52	0.72
14:8:185:GLY:O	14:8:186:THR:OG1	2.07	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:H	6:K:407:ILE:HD12	1.54	0.72
7:N:791:LEU:HB2	7:N:913:ILE:HA	1.70	0.72
7:N:799:LYS:HD3	7:N:880:ASN:HD21	1.55	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
19:B:171:LYS:HB3	19:B:205:VAL:CG2	2.18	0.72
2:v:125:LEU:HD13	2:v:129:VAL:CG2	2.19	0.72
2:v:229:VAL:O	2:v:233:THR:HB	1.89	0.72
5:x:134:LEU:N	5:x:237:MET:HE1	2.04	0.72
6:y:167:ILE:HD11	6:y:218:ALA:HB2	1.72	0.72
3:z:305:ASN:O	3:z:309:ARG:N	2.17	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:L:215:ILE:HD11	3:L:260:LEU:HD21	1.72	0.72
5:J:91:PRO:O	5:J:92:GLU:O	2.08	0.72
5:J:147:THR:HG22	5:J:150:MET:HE3	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
23:l:42:THR:HG22	23:l:44:GLU:H	1.55	0.72
27:p:187:ARG:CG	27:p:188:PRO:HD3	2.19	0.72
2:v:139:ARG:NH1	2:v:156:LYS:HG3	2.05	0.72
2:v:272:ILE:HG21	2:v:274:PHE:CZ	2.25	0.72
3:z:146:ARG:HH22	3:z:190:GLN:CD	1.98	0.72
4:0:80:ILE:HG21	4:0:84:LYS:CE	2.19	0.72
4:0:224:LEU:HD12	4:0:330:ALA:O	1.89	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
1:I:234:LEU:CG	33:I:501:ADP:H2'	2.20	0.72
1:I:392:GLY:CA	33:I:501:ADP:N7	2.53	0.72
2:H:83:ASP:O	2:H:87:LEU:N	2.20	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:O	2:H:334:PRO:CG	2.37	0.72
6:K:337:ASP:O	6:K:341:LYS:HD2	1.90	0.72
6:K:384:MET:N	6:K:384:MET:SD	2.61	0.72
12:S:228:ARG:HE	12:S:257:ASN:CG	1.98	0.72
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:48:GLY:O	15:V:49:VAL:C	2.30	0.72
15:V:229:LEU:CD1	15:V:305:ASP:OD1	2.36	0.72
16:W:63:THR:HG23	16:W:64:LEU:N	2.05	0.72
16:W:169:HIS:CD2	16:W:187:PRO:CB	2.67	0.72
23:F:16:SER:OG	23:F:20:ARG:HG2	1.89	0.72
25:n:83:ASP:OD2	25:n:129:ARG:NH2	2.23	0.72
1:w:387:LYS:HD3	1:w:427:LEU:HD13	1.70	0.72
1:w:423:LYS:HD3	1:w:428:TYR:OH	1.90	0.72
6:y:337:ASP:O	6:y:341:LYS:HD2	1.90	0.72
4:0:226:TYR:HB3	4:0:335:VAL:HG22	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:133:VAL:HG23	1:I:159:VAL:HG23	1.69	0.71
2:H:296:GLN:NE2	2:H:299:MET:SD	2.63	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
9:P:432:LEU:HD22	15:V:309:PHE:CD2	2.25	0.71
12:S:463:MET:C	12:S:465:ASP:N	2.46	0.71
15:V:227:GLU:OE1	15:V:228:GLY:N	2.23	0.71
24:m:196:ARG:HD3	24:m:239:ARG:NE	2.05	0.71
2:v:125:LEU:CD1	2:v:129:VAL:CG2	2.67	0.71
1:w:247:PHE:HE2	5:x:283:PHE:CZ	2.07	0.71
1:w:388:ASP:OD1	1:w:389:ASP:OD1	2.07	0.71
1:w:392:GLY:C	33:w:501:ADP:C8	2.68	0.71
5:x:273:MET:CE	5:x:293:MET:SD	2.78	0.71
3:z:215:ILE:CD1	3:z:260:LEU:HD23	2.11	0.71
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:218:PRO:CD	2:H:429:TYR:CD2	2.71	0.71
3:L:70:ILE:HD13	6:K:146:GLU:CD	2.15	0.71
3:L:146:ARG:HH22	3:L:190:GLN:CD	1.98	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
23:F:18:GLU:OE2	4:0:431:LYS:CG	2.38	0.71
2:v:112:ILE:CG1	2:v:122:VAL:HG22	2.15	0.71
2:v:208:PRO:O	2:v:210:LYS:N	2.23	0.71
1:w:401:GLU:CB	1:w:422:SER:CB	2.66	0.71
5:x:114:VAL:CG1	5:x:126:ILE:HG12	2.19	0.71
5:x:144:PRO:O	5:x:201:ARG:HG3	1.91	0.71
6:y:360:LEU:HD12	6:y:363:TYR:HD2	1.53	0.71
6:y:381:GLU:HG3	6:y:405:THR:HG21	1.71	0.71
3:z:255:ARG:HG3	3:z:255:ARG:NH2	2.01	0.71
3:z:257:LEU:O	3:z:261:LEU:HD11	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:801:GLN:HB3	7:1:879:ASP:H	1.55	0.71
1:I:107:MET:HE3	1:I:160:ILE:CB	2.19	0.71
1:I:392:GLY:C	33:I:501:ADP:C8	2.68	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
2:H:345:LEU:HD12	2:H:430:MET:HE3	1.71	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
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
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
28:q:28:PHE:HB3	28:q:36:THR:HG22	1.71	0.71
2:v:233:THR:CG2	2:v:234:ASP:N	2.54	0.71
2:v:247:GLN:N	2:v:247:GLN:NE2	2.36	0.71
2:v:254:ALA:HB1	2:v:258:ARG:NH2	2.06	0.71
2:v:373:LEU:O	2:v:377:CYS:SG	2.49	0.71
6:y:215:LEU:HD23	6:y:333:PHE:HZ	1.53	0.71
6:y:219:VAL:O	6:y:223:THR:CB	2.32	0.71
6:y:394:VAL:HG13	6:y:398:ASP:OD2	1.90	0.71
3:z:51:GLN:O	3:z:53:VAL:CG2	2.38	0.71
7:1:357:LYS:HZ2	7:1:385:PHE:HB2	1.56	0.71
9:3:443:THR:HG21	14:8:204:LYS:CD	2.19	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
1:I:112:LEU:N	1:I:148:CYS:O	2.21	0.71
1:I:366:GLN:O	1:I:370:SER:CB	2.36	0.71
2:H:254:ALA:HB1	2:H:258:ARG:NH2	2.06	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
5:J:162:LYS:HG3	5:J:166:GLU:CD	2.14	0.71
5:J:189:TYR:CD1	5:J:298:ILE:CD1	2.61	0.71
9:P:443:THR:HG21	14:U:204:LYS:CD	2.19	0.71
20:i:110:VAL:HG22	20:i:135:ILE:HD12	1.72	0.71
25:n:186:CYS:HB3	25:n:215:TRP:HZ3	1.55	0.71
2:v:330:ALA:CA	2:v:336:ARG:HH11	2.04	0.71
2:v:347:ASP:O	2:v:351:ARG:HG3	1.90	0.71
1:w:200:SER:C	1:w:219:PRO:CG	2.59	0.71
6:y:267:ILE:CD1	6:y:309:MET:HB3	2.15	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:M:64:HIS:O	4:M:68:ALA:N	2.23	0.71
4:M:183:GLU:O	4:M:184:GLN:C	2.33	0.71
4:M:388:THR:HG22	4:M:391:PHE:CD2	2.25	0.71
5:J:69:GLN:HA	5:J:69:GLN:NE2	2.06	0.71
5:J:79:ALA:C	5:J:80:MET:HG3	2.14	0.71
5:J:339:THR:HA	11:R:207:THR:CG2	2.21	0.71
6:K:345:PHE:CD1	6:K:360:LEU:HD21	2.26	0.71
7:N:364:VAL:O	7:N:367:THR:HB	1.91	0.71
8:O:338:PRO:HG3	14:U:232:ASP:OD1	1.91	0.71
10:Q:114:ILE:HG12	10:Q:129:LEU:HD22	1.71	0.71
2:v:219:GLY:O	2:v:381:THR:HB	1.90	0.71
2:v:296:GLN:NE2	2:v:299:MET:SD	2.63	0.71
2:v:416:VAL:O	2:v:417:ILE:C	2.30	0.71
5:x:148:TYR:CD2	5:x:206:HIS:HD2	2.08	0.71
5:x:273:MET:CE	5:x:305:LEU:CD2	2.62	0.71
6:y:322:LEU:HD13	6:y:330:LYS:HE3	1.71	0.71
6:y:345:PHE:CD1	6:y:360:LEU:HD21	2.26	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
9:3:432:LEU:HD22	15:9:309:PHE:CD2	2.25	0.71
12:6:330:LYS:O	12:6:334:VAL:HG23	1.90	0.71
2:H:107:GLU:O	2:H:108:ASP:CG	2.34	0.71
9:P:154:GLU:CG	9:P:162:ALA:CB	2.69	0.71
10:Q:82:LYS:HG2	10:Q:120:GLU:OE2	1.90	0.71
10:Q:183:LEU:O	10:Q:187:ARG:CB	2.39	0.71
11:R:260:LEU:HD22	11:R:260:LEU:O	1.91	0.71
12:S:228:ARG:NE	12:S:257:ASN:CG	2.49	0.71
2:v:99:THR:CG2	2:v:142:VAL:HG23	2.18	0.71
1:w:174:MET:O	1:w:248:LEU:HA	1.91	0.71
1:w:283:PHE:HD1	1:w:328:ILE:CB	2.02	0.71
5:x:189:TYR:CD1	5:x:298:ILE:CD1	2.61	0.71
5:x:250:GLU:O	5:x:269:VAL:HG21	1.90	0.71
6:y:41:TYR:CE1	7:1:183:LEU:CD2	2.73	0.71
3:z:156:PRO:HA	3:z:159:PHE:HD2	1.56	0.71
3:z:243:PHE:O	3:z:244:SER:OG	2.09	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
1:I:174:MET:O	1:I:248:LEU:HA	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:373:LEU:O	2:H:377:CYS:SG	2.49	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
6:K:92:PHE:N	6:K:128:ALA:O	2.23	0.71
7:N:643:SER:O	7:N:649:ARG:NE	2.24	0.71
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
14:U:185:GLY:O	14:U:186:THR:OG1	2.07	0.71
18:Z:758:ASN:O	18:Z:762:VAL:N	2.21	0.71
2:v:89:SER:O	2:v:92:PRO:CD	2.35	0.71
2:v:125:LEU:HA	2:v:149:ILE:CB	2.15	0.71
1:w:103:ARG:HG3	1:w:160:ILE:HG23	1.71	0.71
1:w:180:PRO:HG3	1:w:240:ALA:O	1.91	0.71
1:w:283:PHE:HE1	1:w:328:ILE:HG22	1.51	0.71
1:w:363:ARG:O	1:w:367:ILE:CD1	2.39	0.71
5:x:187:LEU:CD1	5:x:293:MET:O	2.34	0.71
6:y:215:LEU:CD2	6:y:333:PHE:CZ	2.72	0.71
6:y:371:SER:C	6:y:375:ILE:CD1	2.63	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
12:6:228:ARG:NE	12:6:257:ASN:CG	2.49	0.71
12:6:328:VAL:CG1	12:6:329:HIS:H	2.03	0.71
14:8:22:HIS:HE2	14:8:35:VAL:HG13	1.54	0.71
15:9:234:TYR:CE1	15:9:298:GLN:NE2	2.59	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
5:J:149:GLU:CD	11:R:133:ALA:HB1	2.15	0.71
6:K:227:PHE:CE1	6:K:261:ILE:HG21	2.26	0.71
6:K:371:SER:C	6:K:375:ILE:CD1	2.63	0.71
8:O:3:ASP:O	8:O:7:PHE:N	2.23	0.71
24:G:5:GLN:HE22	25:X:4:GLY:CA	2.04	0.71
1:w:271:PHE:HB3	1:w:315:GLN:HE22	1.55	0.71
1:w:276:GLU:C	1:w:278:ALA:H	1.99	0.71
5:x:147:THR:HG22	5:x:150:MET:HE3	1.72	0.71
5:x:189:TYR:HE2	5:x:316:GLU:HG3	1.47	0.71
5:x:326:LEU:HD13	5:x:345:ARG:HG2	1.71	0.71
6:y:92:PHE:N	6:y:128:ALA:O	2.23	0.71
3:z:145:LEU:HD12	3:z:299:ILE:CD1	2.21	0.71
3:z:180:LYS:NZ	3:z:280:ASN:OD1	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:79:LYS:O	4:0:83:ASN:HB2	1.90	0.71
4:0:308:ARG:O	4:0:312:GLU:N	2.18	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
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
3:L:230:ILE:HB	3:L:275:MET:HG2	1.73	0.71
6:K:394:VAL:HG13	6:K:398:ASP:OD2	1.90	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
10:Q:400:ALA:CB	14:U:262:LEU:HD11	2.21	0.71
12:S:330:LYS:O	12:S:334:VAL:HG23	1.90	0.71
18:Z:163:ALA:O	18:Z:167:ALA:N	2.24	0.71
18:Z:255:VAL:O	18:Z:256:PHE:C	2.34	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
2:v:206:ILE:HG13	2:v:207:GLU:N	2.05	0.71
5:x:339:THR:HA	11:5:207:THR:CG2	2.21	0.71
6:y:227:PHE:CE1	6:y:261:ILE:HG21	2.26	0.71
3:z:150:GLU:O	3:z:153:LEU:CD1	2.39	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
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
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:89:LEU:HD21	4:M:126:THR:HB	1.73	0.71
4:M:226:TYR:CG	4:M:335:VAL:CG2	2.65	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
19:B:67:THR:HG22	19:B:69:LEU:H	1.54	0.71
22:k:33:VAL:HG11	22:k:168:VAL:HG11	1.73	0.71
1:w:92:GLN:O	1:w:96:ARG:N	2.17	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:313:LEU:CG	1:w:346:ARG:NH1	2.49	0.71
1:w:414:VAL:HG12	1:w:418:ASP:HB2	1.72	0.71
6:y:145:PRO:CB	6:y:256:GLU:HG3	2.21	0.71
6:y:279:THR:HG21	3:z:248:SER:CB	2.21	0.71
7:1:673:GLU:O	7:1:676:THR:OG1	2.05	0.71
1:I:271:PHE:CZ	1:I:316:LEU:HD13	2.17	0.70
4:M:169:ASP:OD2	4:M:270:ASP:OD2	2.09	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
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
25:X:170:GLN:OE1	3:z:372:ARG:NE	2.23	0.70
2:v:161:VAL:CB	2:v:263:MET:SD	2.78	0.70
1:w:288:ASP:OD2	1:w:292:THR:HG21	1.91	0.70
6:y:82:ILE:CG2	6:y:116:LEU:HD11	2.12	0.70
6:y:116:LEU:CB	6:y:119:ILE:HD11	2.20	0.70
3:z:326:ILE:HG21	3:z:328:TYR:CZ	2.25	0.70
4:0:409:ARG:C	4:0:411:GLY:H	1.99	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
10:4:97:LEU:HD23	10:4:106:GLU:CG	2.21	0.70
10:4:118:LYS:HE2	10:4:126:ARG:CZ	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:401:GLU:CB	1:I:422:SER:CB	2.66	0.70
3:L:326:ILE:HG21	3:L:328:TYR:CZ	2.25	0.70
5:J:148:TYR:CD2	5:J:206:HIS:HD2	2.08	0.70
6:K:82:ILE:HD13	6:K:82:ILE:O	1.91	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
7:N:560:MET:HA	7:N:589:ALA:HB1	1.74	0.70
10:Q:200:ILE:HD12	10:Q:201:TYR:C	2.16	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
1:w:180:PRO:HD2	1:w:241:ASN:HA	1.73	0.70
5:x:339:THR:HG22	5:x:340:ARG:H	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:75:ALA:O	6:y:79:VAL:HG23	1.91	0.70
6:y:407:ILE:H	6:y:407:ILE:HD12	1.54	0.70
3:z:383:LYS:CG	3:z:386:TYR:CZ	2.74	0.70
9:3:128:LEU:HA	9:3:131:VAL:HG12	1.74	0.70
10:4:37:GLU:H	10:4:38:ASN:HA	1.56	0.70
10:4:225:TRP:HZ2	10:4:322:HIS:HE2	1.37	0.70
1:I:223:ILE:HD11	1:I:347:ILE:HG21	1.67	0.70
1:I:288:ASP:OD2	1:I:292:THR:HG21	1.91	0.70
3:L:145:LEU:HD12	3:L:299:ILE:CD1	2.21	0.70
3:L:148:VAL:C	3:L:167:PRO:HG2	2.16	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
5:J:326:LEU:HD13	5:J:345:ARG:HG2	1.71	0.70
6:K:149:SER:CB	6:K:250:VAL:HG22	2.21	0.70
6:K:167:ILE:HD11	6:K:218:ALA:HB2	1.72	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
6:y:53:PHE:O	6:y:57:GLN:OE1	2.08	0.70
6:y:146:GLU:CD	3:z:70:ILE:HD13	2.15	0.70
6:y:240:LEU:HD23	6:y:240:LEU:N	2.07	0.70
4:0:64:HIS:O	4:0:68:ALA:N	2.23	0.70
7:1:610:VAL:HG11	14:8:178:ASP:CG	2.17	0.70
15:9:227:GLU:OE1	15:9:228:GLY:N	2.23	0.70
2:H:143:ASP:OD2	2:H:146:LYS:HG3	1.91	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
5:J:195:GLY:CA	33:J:501:ADP:N7	2.55	0.70
7:N:35:TRP:HA	7:N:38:ILE:HB	1.73	0.70
7:N:357:LYS:HZ2	7:N:385:PHE:HB2	1.56	0.70
10:Q:41:GLU:O	10:Q:45:VAL:N	2.21	0.70
10:Q:118:LYS:HE2	10:Q:126:ARG:CZ	2.21	0.70
18:Z:698:SER:CA	18:Z:702:PRO:CB	2.68	0.70
32:g:212:ALA:HA	26:o:30:VAL:HG21	1.74	0.70
2:v:107:GLU:O	2:v:108:ASP:CG	2.34	0.70
2:v:215:PHE:CG	2:v:324:PRO:HG3	2.26	0.70
2:v:353:HIS:O	2:v:357:ILE:CD1	2.40	0.70
1:w:152:LEU:HD22	1:w:157:HIS:O	1.92	0.70
1:w:284:ILE:CG2	1:w:287:ILE:CG2	2.69	0.70
6:y:129:SER:C	6:y:143:LEU:HB2	2.17	0.70
3:z:148:VAL:C	3:z:167:PRO:HG2	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:388:THR:HG22	4:0:391: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
11:5:90:ASP:O	11:5:94:ASN:CG	2.35	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:215:PHE:CG	2:H:324:PRO:HG3	2.26	0.70
3:L:172:LEU:HD22	3:L:301:ILE:CD1	2.19	0.70
6:K:92:PHE:CE2	6:K:124:LEU:CD2	2.74	0.70
6:K:200:ARG:NH2	6:K:299:PHE:HB2	2.06	0.70
7:N:153:ILE:O	7:N:157:THR:N	2.18	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
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
20:i:51:GLN:HG2	20:i:56:TYR:HB2	1.74	0.70
1:w:195:GLN:O	1:w:199:GLU:HB2	1.91	0.70
1:w:206:THR:C	1:w:208:PRO:CD	2.65	0.70
1:w:343:ARG:HH21	1:w:346:ARG:HH21	0.76	0.70
4:0:288:LEU:N	4:0:332: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
10:4:76:PHE:O	10:4:80:ILE:N	2.25	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
2:H:180:CYS:SG	2:H:183:GLN:HG2	2.28	0.70
2:H:206:ILE:HG13	2:H:207:GLU:N	2.05	0.70
5:J:247:PHE:HE1	5:J:292:ILE:HG21	1.53	0.70
6:K:173:GLN:NE2	6:K:332:GLU:O	2.24	0.70
6:K:212:LYS:HA	6:K:333:PHE:CE2	2.26	0.70
9:P:203:GLN:O	9:P:206:SER:OG	2.09	0.70
10:Q:76:PHE:O	10:Q:80:ILE:N	2.25	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
15:V:234:TYR:CE1	15:V:298:GLN:NE2	2.59	0.70
20:C:132:SER:CB	20:C:162:MET:CE	2.65	0.70
1:w:107:MET:CE	1:w:151:LEU:HB3	2.22	0.70
5:x:149:GLU:HG2	11:5:133:ALA:HB1	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:339:THR:OG1	5:x:377:HIS:HB3	1.90	0.70
3:z:338:PHE:CE1	3:z:378:LYS:CE	2.74	0.70
9:3:384:LEU:HD11	9:3:392:PHE:CE2	2.27	0.70
10:4:200:ILE:HD12	10:4:201:TYR:C	2.16	0.70
10:4:276:ALA:C	10:4:278:ARG:N	2.50	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
1:I:92:GLN:O	1:I:96:ARG:N	2.17	0.70
1:I:107:MET:CE	1:I:151:LEU:HB3	2.22	0.70
1:I:114:GLU:HA	1:I:114:GLU:OE1	1.92	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
2:H:416:VAL:HA	2:H:420:TYR:HD2	1.57	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
10:Q:415:TYR:CE1	11:R:383:LEU:CB	2.75	0.70
11:R:234:PRO:O	11:R:237:ARG:HG3	1.91	0.70
15:V:241:ASN:O	15:V:245:VAL:HG23	1.91	0.70
15:V:291:LEU:O	15:V:295:ASN:HB2	1.90	0.70
15:V:293:THR:O	15:V:297:VAL:HG22	1.91	0.70
16:W:25:ARG:NH1	16:W:143:PHE:HB3	2.07	0.70
16:W:53:THR:N	16:W:59:GLU:O	2.21	0.70
20:C:110:VAL:HG22	20:C:135:ILE:HD12	1.73	0.70
2:v:103:ASN:CB	2:v:136:GLU:OE2	2.38	0.70
5:x:69:GLN:HA	5:x:69:GLN:NE2	2.06	0.70
6:y:92:PHE:CE2	6:y:124:LEU:CD2	2.74	0.70
6:y:179:GLU:O	6:y:184:PRO:HG2	1.91	0.70
6:y:200:ARG:NH2	6:y:299:PHE:HB2	2.06	0.70
6:y:354:LEU:H	6:y:393:ILE:HG12	1.57	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
13:7:327:ASP:C	13:7:331:PRO:HG2	2.17	0.70
14:8:270:VAL:HG11	15:9:285:GLU:HG3	1.74	0.70
1:I:180:PRO:HD2	1:I:241:ASN:HA	1.73	0.70
2:H:319:MET:CE	2:H:337:LEU:HD11	2.22	0.70
3:L:108:MET:O	3:L:109:ARG:HB2	1.90	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:L:383:LYS:NZ	25:n:17:ASP:OD2	2.19	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
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
10:Q:57:LEU:C	10:Q:59:LYS:H	1.98	0.70
14:U:270:VAL:HG11	15:V:285:GLU:HG3	1.74	0.70
15:V:96:LEU:HD13	15:V:100:LYS:NZ	2.07	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
2:v:102:ILE:HD11	2:v:120:LYS:CG	2.21	0.70
5:x:91:PRO:O	5:x:92:GLU:O	2.08	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
11:5:33:GLY:H	11:5:34:ASP:CB	2.05	0.70
11:5:186:LEU:CA	11:5:201:PHE:CZ	2.58	0.70
12:6:228:ARG:HE	12:6:257:ASN:CG	1.98	0.70
12:6:231:LEU:O	12:6:235:LEU:HB2	1.91	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
1:I:402:ALA:HB1	1:I:414:VAL:CG1	2.19	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
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
4:M:409:ARG:C	4:M:411:GLY:H	1.99	0.70
7:N:74:PHE:O	7:N:78:LEU:N	2.21	0.70
7:N:154:ALA:O	7:N:158:ARG:N	2.24	0.70
7:N:610:VAL:HG11	14:U:178:ASP:CG	2.17	0.70
7:N:741:GLY:O	7:N:743:ASN:ND2	2.24	0.70
12:S:327:THR:O	12:S:330:LYS:HB2	1.90	0.70
21:D:154:GLY:O	22:E:81:ARG:NH2	2.24	0.70
31:f:153:VAL:CG1	31:f:166:LEU:CD2	2.69	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:392:GLY:CA	33:w:501:ADP:N7	2.53	0.70
6:y:210:CYS:SG	6:y:334:PRO:C	2.75	0.70
6:y:215:LEU:HD22	6:y:333:PHE:CZ	2.26	0.70
3:z:215:ILE:HD11	3:z:260:LEU:HD21	1.72	0.70
4:0:80:ILE:CG2	4:0:84:LYS:HE3	2.22	0.70
4:0:169:ASP:OD2	4:0:270:ASP:OD2	2.09	0.70
7:1:667:GLU:CG	7:1:668:ALA:H	2.05	0.70
10:4:183:LEU:O	10:4:187:ARG:HB3	1.92	0.70
10:4:400:ALA:CB	14:8:262:LEU:HD11	2.21	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
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
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
3:L:146:ARG:NH1	3:L:150:GLU:OE1	2.25	0.70
4:M:93:VAL:HA	4:M:124:ILE:HG12	1.73	0.70
6:K:93:LEU:HD12	6:K:93:LEU:C	2.17	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
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
2:v:416:VAL:HA	2:v:420:TYR:HD2	1.57	0.70
1:w:405:MET:HE2	1:w:421:LYS:HD2	1.72	0.70
5:x:247:PHE:HE1	5:x:292:ILE:HG21	1.53	0.70
4:0:197:GLU:OE2	4:0:350:ARG:NH2	2.25	0.70
4:0:399:VAL:CA	4:0:427: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
1:I:284:ILE:CG2	1:I:287:ILE:CG2	2.69	0.69
1:I:349:ARG:NH2	2:H:394:MET:CG	2.52	0.69
2:H:174:TYR:HE2	2:H:184:ILE:CG2	2.01	0.69
2:H:405:THR:N	2:H:408:ASP:OD2	2.24	0.69
5:J:144:PRO:O	5:J:201:ARG:HG3	1.91	0.69
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:97:LEU:HD23	10:Q:106:GLU:CG	2.21	0.69
2:v:119:ALA:CB	4:0:127:SER:HB3	2.11	0.69
2:v:349:GLU:O	2:v:352:THR:OG1	2.09	0.69
1:w:115:ILE:CA	1:w:121:ALA:HB2	2.16	0.69
5:x:149:GLU:CD	11:5:133:ALA:HB1	2.15	0.69
4:0:93:VAL:HA	4:0:124:ILE:HG12	1.73	0.69
4:0:226:TYR:CB	4:0:335:VAL:HG22	2.17	0.69
7:1:360:VAL:HG12	7:1:361:ARG:N	2.07	0.69
7:1:616:ARG:HH21	7:1:647:HIS:HA	1.57	0.69
7:1:616:ARG:CD	7:1:650:TYR:CD2	2.75	0.69
9:3:420:ASP:CB	9:3:421:PRO:CD	2.70	0.69
16:AA:55:ALA:HA	16:AA:83:LYS:C	2.14	0.69
17:AB:55:GLN:HA	17:AB:58:ALA:HB3	1.74	0.69
1:I:276:GLU:C	1:I:278:ALA:H	1.99	0.69
1:I:344:PRO:O	1:I:344:PRO:CG	2.41	0.69
2:H:242:GLY:HA3	2:H:280:ILE:HG13	1.73	0.69
3:L:126:ASP:OD2	3:L:197:LYS:HE3	1.88	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
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
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
5:x:63:LEU:HD12	6:y:79:VAL:CG2	2.21	0.69
5:x:393:LYS:HA	5:x:396:GLU:HB3	1.74	0.69
6:y:116:LEU:HB2	6:y:119:ILE:CD1	2.22	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
18:AC:412:ALA:HA	18:AC:447:ALA:CB	2.21	0.69
3:L:344:ARG:HE	33:L:401:ADP:HO2'	1.39	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
11:R:90:ASP:O	11:R:94:ASN:CG	2.35	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
2:v:242:GLY:HA3	2:v:280:ILE:HG13	1.73	0.69
1:w:200:SER:O	1:w:219:PRO:HG2	1.90	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:255:LEU:HD11	1:w:267:VAL:HG22	1.74	0.69
4:0:142:ALA:O	4:0:145: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
15:9:225:TRP:C	15:9:227:GLU:H	2.00	0.69
18:AC:255:VAL:O	18:AC:256:PHE:C	2.34	0.69
1:I:200:SER:O	1:I:219:PRO:HG2	1.90	0.69
1:I:206:THR:C	1:I:208:PRO:CD	2.65	0.69
5:J:393:LYS:HA	5:J:396:GLU:HB3	1.74	0.69
7:N:667:GLU:CG	7:N:668:ALA:H	2.05	0.69
10:Q:46:LYS:O	10:Q:50:ILE:N	2.20	0.69
10:Q:248:ILE:HG22	10:Q:283:GLN:OE1	1.91	0.69
1:w:404:LEU:HD13	5:x:313:ARG:HH11	1.56	0.69
5:x:195:GLY:CA	33:x:501:ADP:N7	2.55	0.69
6:y:93:LEU:HD12	6:y:93:LEU:C	2.17	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: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
2:H:102:ILE:HD11	2:H:120:LYS:CG	2.21	0.69
9:P:19:ASP:O	9:P:23:THR:N	2.17	0.69
9:P:128:LEU:HA	9:P:131:VAL:HG12	1.74	0.69
10:Q:276:ALA:C	10:Q:278:ARG:N	2.50	0.69
10:Q:337:ARG:CA	10:Q:340:GLU:HG3	2.22	0.69
13:T:236:LEU:C	13:T:238:GLU:H	1.99	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
1:w:114:GLU:HA	1:w:114:GLU:OE1	1.92	0.69
1:w:232:LYS:NZ	1:w:332:ASN:ND2	2.39	0.69
6:y:205:TYR:HA	6:y:311:THR:O	1.91	0.69
3:z:108:MET:O	3:z:109:ARG:HB2	1.90	0.69
10:4:282:ARG:HD3	10:4:309:TYR:CE1	2.28	0.69
10:4:415:TYR:CE1	11:5:383:LEU:CB	2.75	0.69
11:5:249:VAL:O	11:5:252:SER:N	2.25	0.69
14:8:69:PHE:CZ	16:AA:63:THR:HG21	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:131:LEU:CD1	14:8:199:LYS:CD	2.67	0.69
2:H:111:TYR:HH	2:H:131:PRO:HA	1.53	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
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
15:V:225:TRP:C	15:V:227:GLU:H	2.00	0.69
18:Z:438:ASP:O	18:Z:442:SER:N	2.21	0.69
2:v:177:VAL:CG1	2:v:184:ILE:HD11	2.22	0.69
1:w:344:PRO:O	1:w:344:PRO:CG	2.41	0.69
3:z:155:ASN:N	3:z:156:PRO:HD3	2.08	0.69
3:z:234:GLU:OE2	4:0:315:ASN:HB2	1.92	0.69
3:z:327:ASP:OD1	3:z:330:ALA:HB2	1.88	0.69
4:0:314:LEU:HD21	4:0:342:LEU:HD21	1.73	0.69
8:2:3:ASP:O	8:2:7:PHE:N	2.23	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
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
5:J:220:VAL:HG13	5:J:224:ILE:CD1	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
2:v:261:PHE:HB3	2:v:265:ARG:HH21	1.58	0.69
3:z:175:PRO:O	3:z:178:THR:HG23	1.92	0.69
3:z:230:ILE:HB	3:z:275:MET:HG2	1.73	0.69
3:z:257:LEU:C	3:z:257:LEU:HD13	2.17	0.69
3:z:338:PHE:HA	3:z:378:LYS:HZ2	1.56	0.69
4:0:171:ARG:NH2	4:0:263:ASP:OD1	2.23	0.69
4:0:249:LEU:O	4:0:284: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
1:I:356:PRO:HB2	1:I:361:LYS:CE	2.22	0.69
1:I:405:MET:HE2	1:I:421:LYS:HD2	1.72	0.69
2:H:111:TYR:OH	2:H:134:ILE:HD12	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:242:GLY:CA	2:H:280:ILE:CG1	2.71	0.69
3:L:234:GLU:OE2	4:M:315:ASN:HB2	1.92	0.69
4:M:175:MET:HE2	4:M:251:LEU:HD13	1.75	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
5:J:137:LEU:CD2	5:J:224:ILE:HD13	2.12	0.69
6:K:204:MET:SD	6:K:215:LEU:HD23	2.33	0.69
6:K:205:TYR:HD2	6:K:314:ALA:HB1	1.56	0.69
6:K:290:LEU:HA	6:K:293:LEU:HB2	1.75	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
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
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
27:b:141:LYS:NZ	27:b:157:GLU:OE2	2.23	0.69
23:l:36:THR:CG2	23:l:51:GLU:OE1	2.41	0.69
2:v:178:GLY:HA3	2:v:357:ILE:CD1	2.22	0.69
2:v:373:LEU:CD2	2:v:410:LEU:HD23	2.22	0.69
1:w:356:PRO:HB2	1:w:361:LYS:CE	2.22	0.69
5:x:147:THR:O	5:x:150:MET:CG	2.37	0.69
6:y:82:ILE:HD13	6:y:82:ILE:O	1.91	0.69
6:y:284:GLU:HA	6:y:287:ARG:HD2	1.74	0.69
3:z:198:VAL:CG2	3:z:218:MET:SD	2.78	0.69
3:z:242:ARG:NH1	3:z:286:ASP:OD2	2.26	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
13:7:236:LEU:C	13:7:238:GLU:H	1.99	0.69
14:8:256:GLN:HG2	15:9:295:ASN:ND2	2.07	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: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
4:M:215:LEU:HD23	4:M:217:ILE:HG22	1.75	0.69
5:J:377:HIS:HE2	11:R:206:SER:CB	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:115:ILE:CD1	6:K:121:ARG:HH11	1.97	0.69
6:K:129:SER:C	6:K:143:LEU:HB2	2.17	0.69
7:N:347:ASN:CG	7:N:883:ARG:HH22	2.00	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
6:y:348:ILE:HG21	6:y:379:CYS:SG	2.33	0.69
3:z:126:ASP:OD2	3:z:197:LYS:HE3	1.88	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
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
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
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
20:i:44:VAL:HG22	20:i:183:LEU:HD21	1.74	0.69
1:w:284:ILE:HG21	1:w:287:ILE:CG2	2.23	0.69
1:w:343:ARG:NH2	1:w:346:ARG:NH2	2.16	0.69
5:x:214:VAL:HG21	5:x:234:LEU:HD11	1.75	0.69
5:x:220:VAL:HG13	5:x:224:ILE:CD1	2.23	0.69
5:x:301:LEU:HD12	5:x:301:LEU:O	1.93	0.69
6:y:105:SER:CB	6:y:109:SER:OG	2.41	0.69
6:y:226:ALA:HB2	6:y:257:ASN:ND2	2.08	0.69
6:y:392:TYR:O	6:y:393:ILE:HB	1.93	0.69
3:z:146:ARG:NH1	3:z:150:GLU:OE1	2.25	0.69
7:1:35:TRP:HA	7:1:38:ILE:HB	1.73	0.69
10:4:51:LEU:O	10:4:55:SER:N	2.23	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:271:PHE:CD1	1:I:315:GLN:NE2	2.61	0.68
2:H:177:VAL:CG1	2:H:184:ILE:HD11	2.22	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
5:J:41:ASN:O	5:J:44:ARG:CA	2.41	0.68
6:K:210:CYS:SG	6:K:334:PRO:C	2.75	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
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
27:b:172:ASN:OD1	27:b:191:VAL:HG13	1.93	0.68
30:e:166:ARG:NH2	29:r:140:LEU:HD22	2.08	0.68
21:j:154:GLY:O	22:k:81:ARG:NH2	2.26	0.68
24:m:104:PRO:HB3	32:u:81:HIS:CD2	2.29	0.68
2:v:356:LYS:O	2:v:360:ARG:HB2	1.92	0.68
1:w:393:ALA:O	1:w:396:LYS:N	2.25	0.68
1:w:401:GLU:CG	1:w:422:SER:CB	2.71	0.68
1:w:424:GLU:CA	1:w:428:TYR:CE2	2.71	0.68
5:x:184:LYS:O	5:x:290:LYS:HA	1.94	0.68
6:y:372:GLY:CA	33:y:501:ADP:C8	2.76	0.68
4:0:175:MET:HE2	4:0:251:LEU:HD13	1.75	0.68
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
13:7:160:ASP:O	13:7:163:SER:OG	2.09	0.68
15:9:96:LEU:HD13	15:9:100:LYS:NZ	2.07	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
3:L:171:LEU:CD1	3:L:277:MET:C	2.66	0.68
4:M:384:LEU:C	4:M:387:CYS:SG	2.77	0.68
4:M:384:LEU:C	4:M:387:CYS:HG	2.00	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
19:h:208:ILE:C	19:h:209:ASP:CG	2.59	0.68
2:v:230:ALA:HB2	2:v:237:PHE:CD2	2.29	0.68
2:v:362:MET:HE2	2:v:364:VAL:CG1	2.20	0.68
6:y:116:LEU:CA	6:y:119:ILE:CD1	2.70	0.68
6:y:199:PRO:HA	6:y:328:ASP:OD2	1.93	0.68
6:y:212:LYS:HA	6:y:333:PHE:CE2	2.26	0.68
3:z:199:VAL:CG1	4:0:315:ASN:ND2	2.56	0.68
3:z:322:LYS:NZ	3:z:328:TYR:CZ	2.60	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
1:I:180:PRO:CG	1:I:241:ASN:HA	2.22	0.68
1:I:197:ILE:HG23	1:I:198:LYS:N	2.09	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
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
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
10:Q:332:GLU:CD	10:Q:364:LYS:HD3	2.19	0.68
12:S:484:LEU:HD13	13:T:345:GLN:CB	2.17	0.68
13:T:327:ASP:C	13:T:331:PRO:HG2	2.17	0.68
2:v:254:ALA:HB1	2:v:258:ARG:HH21	1.57	0.68
6:y:173:GLN:NE2	6:y:332:GLU:O	2.24	0.68
6:y:190:LEU:O	6:y:196:ILE:CD1	2.40	0.68
3:z:171:LEU:HD13	3:z:277:MET:CB	2.23	0.68
3:z:171:LEU:CD1	3:z:277:MET:C	2.66	0.68
10:4:166:LEU:O	10:4:170:GLN:HG3	1.94	0.68
11:5:30:GLU:HA	11:5:31:HIS:O	1.94	0.68
11:5:219:PHE:CE1	11:5:223:THR:HG21	2.28	0.68
12:6:328:VAL:O	12:6:331:LEU:N	2.25	0.68
18:AC:318:THR:C	18:AC:322:SER:H	2.01	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:662:MET:O	18:AC:664:GLU:N	2.25	0.68
1:I:233:THR:CB	33:I:501:ADP:O2A	2.42	0.68
2:H:190:VAL:HG11	2:H:212:VAL:HG21	1.62	0.68
3:L:257:LEU:C	3:L:257:LEU:HD13	2.17	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
2:v:111:TYR:OH	2:v:134:ILE:HD12	1.93	0.68
1:w:180:PRO:CG	1:w:241:ASN:HA	2.22	0.68
1:w:233:THR:CB	33:w:501:ADP:O2A	2.42	0.68
1:w:423:LYS:HG2	1:w:427:LEU:HD12	1.76	0.68
6:y:89:ILE:HG23	6:y:143:LEU:HD23	1.75	0.68
6:y:205:TYR:HD2	6:y:314:ALA:HB1	1.56	0.68
6:y:205:TYR:CE1	6:y:332:GLU:HA	2.29	0.68
3:z:222:ALA:O	3:z:226:GLN:N	2.27	0.68
7:1:74:PHE:O	7:1:78:LEU:N	2.21	0.68
7:1:347:ASN:CG	7:1:883:ARG:HH22	2.00	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
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
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
4:M:80:ILE:CG2	4:M:84:LYS:HE3	2.22	0.68
4:M:202:ILE:HD11	4:M:329:ILE:CD1	2.18	0.68
6:K:248:ARG:CB	6:K:252:ARG:HH21	2.06	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
18:Z:318:THR:C	18:Z:322:SER:H	2.00	0.68
19:h:126:THR:HG22	20:i:127:ARG:HH21	1.59	0.68
20:i:198:PHE:HZ	20:i:206:ASN:CB	2.03	0.68
1:w:115:ILE:O	1:w:116:ILE:HD13	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:46:GLN:HB3	6:y:61:ILE:HG21	1.75	0.68
6:y:207:PRO:HB2	6:y:335:LEU:HD22	1.73	0.68
3:z:122:MET:HE2	3:z:218:MET:HG2	1.76	0.68
3:z:264:MET:CG	3:z:275:MET:CE	2.71	0.68
7:1:68:PHE:HB3	7:1:73:ALA:HB3	1.75	0.68
7:1:148:LYS:HE3	7:1:179:TYR:CD2	2.28	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
1:I:115:ILE:O	1:I:116:ILE:HD13	1.93	0.68
1:I:131:HIS:HB3	2:H:95:VAL:HG23	1.76	0.68
2:H:356:LYS:O	2:H:360:ARG:HB2	1.92	0.68
3:L:300:HIS:NE2	3:L:302:ASP:OD1	2.27	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
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
19:B:126:THR:HG22	20:C:127:ARG:HH21	1.58	0.68
1:w:180:PRO:CG	1:w:241:ASN:CA	2.72	0.68
5:x:220:VAL:CG1	5:x:224:ILE:HD12	2.22	0.68
6:y:167:ILE:HG13	6:y:214:MET:HE2	1.76	0.68
6:y:204:MET:SD	6:y:215:LEU:HD23	2.33	0.68
3:z:148:VAL:O	3:z:167:PRO:HG2	1.93	0.68
3:z:291:ARG:HE	3:z:294:ARG:NH1	1.90	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
2:H:161:VAL:CG1	2:H:260:LEU:HD12	2.22	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
5:J:46:GLN:HB3	6:K:61:ILE:HG21	1.75	0.68
5:J:287:LYS:O	5:J:288:ASN:HB2	1.93	0.68
7:N:67:VAL:O	7:N:71:LEU:N	2.27	0.68
7:N:112:CYS:O	7:N:116:ALA:N	2.23	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:245:VAL:HG11	8:O:300:ALA:HA	1.74	0.68
10:Q:252:LYS:HA	10:Q:287:LEU:HD11	1.75	0.68
10:Q:282:ARG:HD3	10:Q:309:TYR:CE1	2.28	0.68
14:U:194:GLN:NE2	15:V:304:LEU:HD12	2.08	0.68
15:V:234:TYR:CZ	15:V:298:GLN:NE2	2.62	0.68
29:d:33:ASP:OD2	29:d:181:ARG:NH2	2.27	0.68
1:w:199:GLU:O	1:w:204:PRO:HD3	1.92	0.68
1:w:271:PHE:CD1	1:w:315:GLN:NE2	2.61	0.68
1:w:390:LEU:HD13	1:w:395:ILE:CG1	2.20	0.68
5:x:173:GLU:O	5:x:177:ALA:CB	2.42	0.68
6:y:154:LEU:O	6:y:155:THR:CB	2.41	0.68
6:y:212:LYS:CG	6:y:333:PHE:CD2	2.76	0.68
6:y:248:ARG:CB	6:y:252:ARG:HH21	2.06	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
3:L:199:VAL:CG1	4:M:315:ASN:ND2	2.56	0.68
4:M:232:GLY:HA3	33:M:501:ADP:C8	2.29	0.68
4:M:358:ASN:O	4:M:362:ARG:NH1	2.26	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
9:P:274:VAL:HG12	9:P:287:VAL:HG22	1.75	0.68
9:P:446:ILE:HD12	14:U:211:TYR:CD2	2.28	0.68
14:U:59:ASP:HB2	16:W:99:HIS:CD2	2.29	0.68
14:U:214:LYS:HA	14:U:218:GLY:H	1.59	0.68
24:G:104:PRO:HB3	32:g:81:HIS:CD2	2.28	0.68
6:y:384:MET:O	6:y:388:ARG:HB2	1.94	0.68
3:z:195:PHE:HE1	3:z:229:ILE:HG13	1.54	0.68
3:z:242:ARG:HH11	3:z:242:ARG:HG3	1.56	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
14:8:47:VAL:HG12	14:8:48:LEU:N	2.09	0.68
15:9:160:PHE:HB2	15:9:201:TYR:O	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
24:m:196:ARG:CD	24:m:239:ARG:HE	2.07	0.68
6:y:394:VAL:CG1	6:y:395:LEU:N	2.56	0.68
3:z:238:ILE:HG12	3:z:260:LEU:HD11	1.76	0.68
4:0:96:LEU:HD11	4:0:145:LEU:HB3	1.76	0.68
4:0:229:PRO:CB	4:0:333:ASN:HD22	2.07	0.68
7:1:462:LEU:O	7:1:466:LYS:N	2.22	0.68
18:AC:272:LEU:O	18:AC:273:ASN:C	2.37	0.68
1:I:115:ILE:CA	1:I:121:ALA:HB2	2.16	0.68
2:H:261:PHE:HB3	2:H:265:ARG:HH21	1.58	0.68
3:L:148:VAL:O	3:L:167:PRO:HG2	1.93	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: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
10:Q:84:LYS:NZ	10:Q:88:LEU:HD21	2.09	0.68
10:Q:122:ARG:O	10:Q:124:PHE:N	2.27	0.68
12:S:319:HIS:CG	12:S:320:THR:H	2.11	0.68
12:S:480:ILE:HB	13:T:342:TYR:CE1	2.28	0.68
13:T:224:VAL:CG1	13:T:225:TYR:H	2.05	0.68
15:V:160:PHE:HB2	15:V:201:TYR:O	1.94	0.68
15:V:254:ASN:C	15:V:280:PRO:HG3	2.19	0.68
2:v:242:GLY:HA3	2:v:280:ILE:CG1	2.23	0.68
2:v:282:GLY:O	2:v:328:ASP:N	2.27	0.68
6:y:82:ILE:HG21	6:y:116:LEU:CD1	2.12	0.68
6:y:107:THR:CG2	3:z:77:PRO:HG3	2.23	0.68
6:y:335:LEU:HD23	6:y:335:LEU:N	2.08	0.68
4:0:289:ASP:O	4:0:290:ALA:C	2.36	0.68
12:6:298:ILE:HG21	13:7:213:GLU:HB2	1.76	0.68
12:6:317:PRO:HG2	17:AB:7:PRO:CB	2.24	0.68
14:8:12:HIS:HD2	14:8:50:VAL:O	1.77	0.68
14:8:157:HIS:ND1	14:8:157:HIS:O	2.27	0.68
15:9:234:TYR:CZ	15:9:298:GLN:NE2	2.62	0.68
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:289:ASP:O	4:M:290:ALA:C	2.36	0.67
4:M:399:VAL:HG22	4:M:427:VAL:CG2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:435:LEU:CD1	23:l:20:ARG:HB3	2.24	0.67
9:P:384:LEU:HD13	9:P:392:PHE:HE2	1.57	0.67
10:Q:61:GLY:O	10:Q:65:GLU:N	2.27	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
13:T:95:TYR:O	13:T:99:LYS:CB	2.40	0.67
13:T:269:ASP:O	13:T:273:GLY:N	2.18	0.67
13:T:332:SER:HG	15:V:303:MET:C	1.92	0.67
14:U:79:TYR:CE1	14:U:83:LYS:CE	2.77	0.67
1:w:197:ILE:HG23	1:w:198:LYS:N	2.09	0.67
5:x:154:LEU:HD21	5:x:317:PHE:CD2	2.29	0.67
5:x:300:ILE:HG13	5:x:301:LEU:N	2.09	0.67
6:y:190:LEU:O	6:y:194:ILE:HB	1.94	0.67
6:y:290:LEU:HA	6:y:293:LEU:HB2	1.75	0.67
3:z:178:THR:HB	3:z:301:ILE:O	1.95	0.67
3:z:300:HIS:NE2	3:z:302:ASP:OD1	2.27	0.67
4:0:146:LYS:CE	4:0:149: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
10:4:6:VAL:O	10:4:10:GLN:N	2.22	0.67
11:5:48:ASN:CB	11:5:50:MET:SD	2.82	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
12:6:477:HIS:HA	13:7:342:TYR:OH	1.94	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:505:ASP:CG	7:N:508:THR:H	2.03	0.67
7:N:791:LEU:O	7:N:792:ASN:CB	2.33	0.67
10:Q:200:ILE:HD12	10:Q:200:ILE:C	2.19	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
2:v:242:GLY:CA	2:v:280:ILE:CG1	2.71	0.67
1:w:144:LEU:HD11	1:w:162:VAL:HA	1.76	0.67
5:x:33:LEU:HA	5:x:36:ASN:ND2	2.09	0.67
5:x:41:ASN:O	5:x:44:ARG:CA	2.41	0.67
7:1:147:TYR:CG	7:1:167:ILE:CG1	2.78	0.67
9:3:90:LEU:O	9:3:90:LEU:HD23	1.94	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:131:VAL:HG13	9:3:142:ARG:HB2	1.76	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
5:J:173:GLU:O	5:J:177:ALA:CB	2.42	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:ND1	14:U:157:HIS:O	2.27	0.67
29:r:33:ASP:OD2	29:r:181:ARG:NH2	2.27	0.67
2:v:95:VAL:HG23	1:w:131:HIS:HB3	1.76	0.67
2:v:144:ARG:O	2:v:147:TYR:CD1	2.48	0.67
1:w:356:PRO:CB	1:w:361:LYS:CG	2.72	0.67
5:x:305:LEU:O	5:x:306:LEU:HD23	1.94	0.67
7:1:55:ARG:CG	7:1:56:SER:N	2.57	0.67
7:1:67:VAL:O	7:1:71:LEU:N	2.27	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
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
1:I:154:HIS:CE1	5:J:95:PHE:CE1	2.83	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
3:L:61:LEU:CD1	3:L:78:ARG:HD3	2.25	0.67
4:M:338:LEU:HD23	4:M:338:LEU:N	2.09	0.67
5:J:33:LEU:HA	5:J:36:ASN:ND2	2.09	0.67
5:J:104:ASP:OD2	5:J:107:ASP:OD2	2.13	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
7:N:442:GLY:O	7:N:446:LEU:N	2.25	0.67
11:R:51:ALA:HB3	11:R:52:PRO:CD	2.23	0.67
11:R:198:ALA:O	11:R:202:LEU:HB2	1.95	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
26:a:30:VAL:HG21	32:u:212:ALA:HA	1.77	0.67
2:v:423:PHE:O	2:v:425:ALA:N	2.28	0.67
1:w:197:ILE:HG12	1:w:235:LEU:HD11	1.76	0.67
1:w:234:LEU:O	1:w:238:ALA:N	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:403:TYR:HA	6:y:407:ILE:CD1	2.25	0.67
4:0:215:LEU:HD23	4:0:217:ILE:HG22	1.75	0.67
4:0:233:LYS:CG	4:0:354: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:94:GLU:CG	1:I:98:LYS:HE3	2.24	0.67
1:I:401:GLU:CG	1:I:422:SER:CB	2.71	0.67
4:M:172:VAL:HG21	4:M:270:ASP:CB	2.23	0.67
6:K:52:GLU:O	6:K:56:VAL:N	2.22	0.67
6:K:82:ILE:CG2	6:K:116:LEU:HD11	2.12	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
14:U:215:VAL:HG13	14:U:220:LEU:CB	2.24	0.67
18:Z:662:MET:C	18:Z:664:GLU:H	2.02	0.67
2:v:111:TYR:OH	2:v:125:LEU:HD22	1.95	0.67
2:v:161:VAL:HG12	2:v:263:MET:CE	2.23	0.67
2:v:191:VAL:HG11	2:v:229:VAL:CG1	2.25	0.67
2:v:348:LEU:HD23	2:v:351:ARG:NH2	2.09	0.67
1:w:228:PRO:C	5:x:307:ARG:HD3	2.19	0.67
1:w:342:ILE:HG23	1:w:350:LYS:HE2	1.76	0.67
3:z:338:PHE:CE2	3:z:375:ALA:HB2	2.19	0.67
4:0:183:GLU:O	4:0:184:GLN:C	2.33	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:HH11	14:8:283:ARG:HG2	1.60	0.67
15:9:234:TYR:CE1	15:9:298:GLN:CD	2.73	0.67
16:AA:130:ARG:HA	16:AA:133:LYS:HD2	1.76	0.67
1:I:218:PRO:CG	1:I:326:LYS:HZ1	2.07	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
2:H:190:VAL:HG13	2:H:212:VAL:HG23	1.75	0.67
3:L:234:GLU:CD	4:M:315:ASN:HB2	2.20	0.67
6:K:89:ILE:HG23	6:K:143:LEU:HD23	1.75	0.67
6:K:114:ARG:O	6:K:138:ALA:HB1	1.95	0.67
6:K:166:ASP:CG	6:K:214:MET:HE1	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:22:HIS:HE2	14:U:35:VAL:HG13	1.54	0.67
18:Z:200:ALA:HA	18:Z:201:GLU:CB	2.24	0.67
2:v:272:ILE:CG2	2:v:274:PHE:CE1	2.77	0.67
1:w:283:PHE:HD1	1:w:328:ILE:HB	1.58	0.67
1:w:421:LYS:O	1:w:425:ASN:N	2.28	0.67
5:x:326:LEU:HD13	5:x:345:ARG:CG	2.24	0.67
6:y:70:LYS:HE2	14:8:182:THR:OG1	1.94	0.67
3:z:234:GLU:CD	4:0:315:ASN:HB2	2.20	0.67
10:4:193:ALA:O	10:4:196:THR:HG22	1.94	0.67
1:I:197:ILE:HG23	1:I:198:LYS:H	1.59	0.67
1:I:225:TYR:C	1:I:232:LYS:HE2	2.20	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
5:J:30:GLU:C	5:J:34:ILE:HG13	2.06	0.67
5:J:214:VAL:HG21	5:J:234:LEU:HD11	1.75	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
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
20:i:44:VAL:HG22	20:i:183:LEU:CD2	2.24	0.67
1:w:94:GLU:CG	1:w:98:LYS:HE3	2.24	0.67
1:w:154:HIS:CE1	5:x:95:PHE:CE1	2.83	0.67
1:w:271:PHE:HB3	1:w:322:ARG:HH21	1.59	0.67
5:x:220:VAL:HG13	5:x:224:ILE:HD11	1.77	0.67
4:0:338:LEU:N	4:0:338:LEU:HD23	2.09	0.67
10:4:200:ILE:HD12	10:4:200:ILE:C	2.19	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
15:9:248:MET:HE1	15:9:288:VAL:CG2	2.25	0.67
18:AC:832:THR:O	18:AC:876:HIS:HA	1.95	0.67
1:I:252:GLY:HA2	1:I:255:LEU:HB2	1.76	0.67
2:H:86:THR:CA	2:H:89:SER:OG	2.41	0.67
2:H:120:LYS:HE2	4:M:90:VAL:HG21	1.76	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:90:LEU:O	9:P:90:LEU:HD23	1.94	0.67
9:P:446:ILE:O	9:P:450:GLU:HG3	1.94	0.67
11:R:32:ARG:HA	11:R:33:GLY:O	1.93	0.67
11:R:250:LEU:CD2	11:R:257:ARG:CB	2.62	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:472:PRO:C	12:S:476:PHE:HD2	1.99	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
20:C:227:ASP:OD1	10:4:87:ARG:NH2	2.28	0.67
1:w:197:ILE:HG23	1:w:198:LYS:H	1.59	0.67
6:y:178:ARG:HA	6:y:182:GLU:HB3	1.76	0.67
3:z:352:MET:O	3:z:356:ARG:CB	2.43	0.67
8:2:274:LEU:HD23	8:2:274:LEU:C	2.20	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
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
14:8:59:ASP:HB2	16:AA:99:HIS:CD2	2.29	0.67
15:9:82:VAL:HG11	15:9:113:HIS:CE1	2.29	0.67
1:I:200:SER:HB2	1:I:219:PRO:CB	2.25	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
3:L:122:MET:HE2	3:L:218:MET:HG2	1.76	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
6:K:384:MET:O	6:K:388:ARG:HB2	1.94	0.67
7:N:616:ARG:CZ	7:N:650:TYR:CE2	2.72	0.67
8:O:373:ASP:CG	13:T:347:GLU:OE1	2.38	0.67
9:P:131:VAL:HG13	9:P:142:ARG:HB2	1.76	0.67
9:P:444:HIS:NE2	14:U:138:TYR:CE1	2.63	0.67
10:Q:206:LEU:HD23	10:Q:206:LEU:C	2.20	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
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
2:v:307:ASP:HB2	2:v:336:ARG:CG	2.24	0.67
1:w:174:MET:CE	1:w:270:LEU:HA	2.25	0.67
1:w:200:SER:HB2	1:w:219:PRO:CB	2.25	0.67
1:w:334:ILE:O	1:w:334:ILE:HG13	1.94	0.67
1:w:390:LEU:HD11	1:w:395:ILE:CG1	2.25	0.67
6:y:114:ARG:O	6:y:138:ALA:HB1	1.95	0.67
6:y:248:ARG:HB3	6:y:252:ARG:NH2	2.08	0.67
7:1:497:LEU:HD11	7:1:515:ALA:CB	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:505:ASP:CG	7:1:508:THR:H	2.03	0.67
8:2:373:ASP:CG	13:7:347:GLU:OE1	2.38	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
15:9:254:ASN:C	15:9:280:PRO:HG3	2.19	0.67
16:AA:119:ASP:OD1	16:AA:120:ASN:N	2.28	0.67
1:I:228:PRO:C	5:J:307:ARG:HD3	2.19	0.67
2:H:348:LEU:CD1	23:l:175:GLU:OE2	2.41	0.67
3:L:222:ALA:O	3:L:226:GLN:N	2.27	0.67
4:M:414:GLU:N	4:M:414:GLU:OE2	2.28	0.67
5:J:381:GLU:CD	10:Q:191:THR:OG1	2.38	0.67
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
2:v:120:LYS:HE2	4:0:90:VAL:HG21	1.76	0.67
2:v:327:LEU:HB3	2:v:332:MET:SD	2.35	0.67
1:w:108:SER:HA	5:x:95:PHE:HD1	1.58	0.67
1:w:140:ASP:OD1	1:w:141:LYS:N	2.28	0.67
1:w:246:THR:HG21	1:w:277:HIS:HB3	1.75	0.67
1:w:290:ILE:HD13	1:w:309:MET:HG2	1.75	0.67
6:y:41:TYR:CE1	7:1:183:LEU:HD23	2.30	0.67
6:y:354:LEU:CA	6:y:393:ILE:CG2	2.67	0.67
6:y:401:LYS:O	6:y:405:THR:HB	1.94	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
14:8:67:VAL:HG11	16:AA:88:THR:CG2	2.25	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
18:AC:503:PRO:O	18:AC:507:ASP:N	2.26	0.67
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
2:H:411:GLU:O	2:H:415:LYS:HB2	1.94	0.66
3:L:238:ILE:HG12	3:L:260:LEU:HD11	1.76	0.66
4:M:256:LEU:HD12	4:M:291:ILE:CD1	2.24	0.66
6:K:149:SER:O	6:K:230:VAL:HG21	1.94	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:74:TYR:CD1	15:V:98:MET:CE	2.78	0.66
14:U:94:TRP:CZ3	14:U:121:LEU:CD2	2.78	0.66
21:j:12:PHE:HB2	22:k:18:GLN:OE1	1.94	0.66
1:w:248:LEU:HD12	1:w:274:ALA:HB2	1.77	0.66
5:x:287:LYS:O	5:x:288:ASN:HB2	1.93	0.66
6:y:92:PHE:CD2	6:y:124:LEU:HG	2.31	0.66
3:z:172:LEU:CD2	3:z:301:ILE:HD11	2.20	0.66
4:0:217:ILE:O	4:0:218: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
1:I:197:ILE:HG12	1:I:235:LEU:HD11	1.76	0.66
3:L:114:GLU:CB	4:M:95:GLU:OE2	2.44	0.66
4:M:202:ILE:HD13	4:M:329:ILE:HD11	1.75	0.66
4:M:333:ASN:C	4:M:334:ARG:HG2	2.20	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
7:N:45:ILE:HG23	7:N:60:ALA:HB1	1.76	0.66
7:N:137:MET:O	7:N:141:CYS:N	2.26	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
18:Z:694:LEU:O	18:Z:698:SER:N	2.27	0.66
21:j:45:LEU:HD13	21:j:75:SER:HB2	1.77	0.66
2:v:411:GLU:O	2:v:415:LYS:HB2	1.94	0.66
1:w:204:PRO:O	1:w:208:PRO:CB	2.42	0.66
5:x:381:GLU:CD	10:4:191:THR:OG1	2.38	0.66
3:z:172:LEU:HD22	3:z:301:ILE:CD1	2.19	0.66
3:z:305:ASN:H	3:z:308:ALA:CB	2.08	0.66
4:0:347:ARG:HG3	4:0:347:ARG:HH11	1.60	0.66
4:0:399:VAL:HG22	4:0:427:VAL:CG2	2.24	0.66
10:4:84:LYS:NZ	10:4:88:LEU:HD21	2.09	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
2:H:307:ASP:HB2	2:H:336:ARG:CG	2.24	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
5:J:154:LEU:HD21	5:J:317:PHE:CD2	2.29	0.66
5:J:229:ARG:C	5:J:230:MET:HG3	2.20	0.66
6:K:190:LEU:O	6:K:194:ILE:HB	1.94	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:93:LEU:HD12	10:Q:129:LEU:HD11	1.77	0.66
12:S:463:MET:O	12:S:464:ILE:C	2.39	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
2:v:161:VAL:HB	2:v:263:MET:SD	2.36	0.66
2:v:177:VAL:HG11	2:v:184:ILE:HD11	1.78	0.66
1:w:230:THR:HG21	1:w:353:PHE:HB2	1.73	0.66
6:y:80:LYS:CB	15:9:151:VAL:HG21	2.21	0.66
6:y:130:VAL:C	6:y:143:LEU:CD2	2.69	0.66
6:y:213:THR:CB	33:y:501:ADP:O2A	2.41	0.66
6:y:411:GLU:O	6:y:412:GLN:CB	2.43	0.66
4:0:256:LEU:HD12	4:0:291:ILE:CD1	2.24	0.66
9:3:453:HIS:O	9:3:454:ASN:CB	2.44	0.66
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
12:6:472:PRO:C	12:6:476:PHE:HD2	1.99	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
2:H:327:LEU:HB3	2:H:332:MET:SD	2.35	0.66
3:L:77:PRO:HG3	6:K:107:THR:CG2	2.23	0.66
4:M:90:VAL:HG12	4:M:164:LEU:HD11	1.77	0.66
6:K:41:TYR:CD1	7:N:183:LEU:HD22	2.31	0.66
8:O:274:LEU:HD23	8:O:274:LEU:C	2.20	0.66
10:Q:193:ALA:O	10:Q:196:THR:HG22	1.94	0.66
11:R:237:ARG:HB3	11:R:264:TYR:CZ	2.30	0.66
16:W:55:ALA:HA	16:W:83:LYS:C	2.14	0.66
21:D:45:LEU:HD13	21:D:75:SER:HB2	1.77	0.66
27:p:141:LYS:NZ	27:p:157:GLU:OE2	2.23	0.66
2:v:233:THR:CG2	2:v:234:ASP:H	2.06	0.66
1:w:232:LYS:HZ1	1:w:332:ASN:HD22	1.42	0.66
1:w:286:GLU:N	1:w:330:ALA:O	2.21	0.66
1:w:363:ARG:O	1:w:367:ILE:HD12	1.96	0.66
5:x:72:TYR:CD2	5:x:121:TYR:CZ	2.83	0.66
3:z:122:MET:HE1	3:z:218:MET:CG	2.25	0.66
3:z:235:ILE:O	3:z:239:GLY:HA3	1.96	0.66
3:z:253:ILE:HG13	4:0:308:ARG:HH12	1.60	0.66
4:0:252:ALA:HB3	4:0:255:GLN:CG	2.23	0.66
4:0:310:MET:HE3	4:0:339:ASP:HB2	1.76	0.66
4:0:333:ASN:C	4:0:334:ARG:HG2	2.20	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:364:ILE:HG12	33:I:501:ADP:HN62	1.61	0.66
6:K:41:TYR:CE1	7:N:183:LEU:HD23	2.30	0.66
6:K:167:ILE:HG13	6:K:214:MET:HE2	1.76	0.66
6:K:213:THR:CB	33:K:501:ADP:O2A	2.41	0.66
6:K:394:VAL:HG12	6:K:395:LEU:H	1.59	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
15:V:234:TYR:CE1	15:V:298:GLN:CD	2.73	0.66
15:V:248:MET:HE1	15:V:288:VAL:CG2	2.25	0.66
18:Z:166:VAL:O	18:Z:170:TRP:N	2.22	0.66
18:Z:272:LEU:O	18:Z:273:ASN:C	2.37	0.66
2:v:157:ILE:CG2	2:v:263:MET:CG	2.73	0.66
1:w:122:ILE:CG1	1:w:130:GLU:HB3	2.25	0.66
1:w:252:GLY:HA2	1:w:255:LEU:HB2	1.76	0.66
6:y:394:VAL:HG12	6:y:395:LEU:H	1.59	0.66
3:z:232:MET:O	3:z:278:ALA:HB3	1.95	0.66
3:z:370:ALA:O	3:z:374:VAL:N	2.24	0.66
4:0:206:MET:HB2	4:0:327:LYS:HZ3	1.61	0.66
4:0:384:LEU:C	4:0:387:CYS:SG	2.77	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
1:I:307:ARG:O	1:I:311:GLU:N	2.26	0.66
3:L:150:GLU:C	3:L:152:PRO:HD2	2.21	0.66
3:L:322:LYS:CB	3:L:326:ILE:CD1	2.74	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
7:N:140:ARG:O	7:N:144:ASP:N	2.28	0.66
7:N:423:MET:CE	7:N:445:ALA:CB	2.74	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
21:D:155:ASN:CG	22:E:77:THR:HG1	2.04	0.66
21:j:155:ASN:CG	22:k:77:THR:HG1	2.03	0.66
2:v:88:GLN:HA	2:v:91:GLN:HB2	1.77	0.66
1:w:107:MET:HE1	1:w:151:LEU:CD1	2.24	0.66
1:w:365:PHE:CE2	1:w:395:ILE:HG23	2.30	0.66
6:y:337:ASP:O	6:y:341:LYS:HG3	1.96	0.66
3:z:61:LEU:HD11	3:z:78:ARG:NE	2.11	0.66
3:z:338:PHE:CE1	3:z:375:ALA:HA	2.30	0.66
4:0:215:LEU:CD2	4:0:217:ILE:HG21	2.24	0.66
4:0:232:GLY:CA	33:0:501:ADP:C8	2.79	0.66
4:0:265:ALA:O	4:0:269:ARG:HG3	1.94	0.66
4:0:303:ASP:O	4:0:307:GLN:CD	2.38	0.66
7:1:334:ALA:O	7:1:338:HIS:N	2.20	0.66
9:3:200:ILE:CG1	9:3:201:ARG:N	2.54	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
2:H:330:ALA:HB1	2:H:336:ARG:HH12	1.58	0.66
3:L:151:LEU:C	3:L:153:LEU:H	2.02	0.66
3:L:343:LEU:O	3:L:346:VAL:HB	1.96	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
6:K:377:SER:O	6:K:381:GLU:HB2	1.96	0.66
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
1:w:94:GLU:HA	1:w:97:SER:OG	1.96	0.66
1:w:234:LEU:CD1	33:w:501:ADP:H2'	2.26	0.66
1:w:250:VAL:HG11	1:w:270:LEU:HD22	1.78	0.66
1:w:271:PHE:CZ	1:w:316:LEU:HD12	2.29	0.66
1:w:364:ILE:HG12	33:w:501:ADP:HN62	1.61	0.66
1:w:407:LEU:HD11	5:x:175:PHE:CE1	2.31	0.66
6:y:41:TYR:CD1	7:1:183:LEU:HD22	2.31	0.66
6:y:103:VAL:CG1	6:y:139:LEU:HD21	2.22	0.66
6:y:166:ASP:CG	6:y:214:MET:HE1	2.20	0.66
4:0:387:CYS:SG	4:0:424:ILE:HD13	2.36	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:287:ILE:CD1	1:I:331:THR:CB	2.39	0.66
1:I:298:ASN:ND2	1:I:299:SER:H	1.94	0.66
2:H:313:GLY:C	2:H:315:ILE:HD12	2.21	0.66
4:M:347:ARG:HH11	4:M:347:ARG:HG3	1.60	0.66
4:M:375:VAL:O	4:M:414:GLU:HG3	1.95	0.66
5:J:72:TYR:CD2	5:J:121:TYR:CZ	2.83	0.66
6:K:70:LYS:HD3	14:U:182:THR:HG21	1.78	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
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
14:U:283:ARG:HH11	14:U:283:ARG:HG2	1.60	0.66
2:v:176:ASP:O	33:v:501:ADP:H2	1.79	0.66
1:w:170:LEU:HD11	1:w:269:GLU:CB	2.26	0.66
1:w:291:GLY:O	1:w:293:LYS:N	2.24	0.66
5:x:104:ASP:OD2	5:x:107:ASP:OD2	2.13	0.66
6:y:52:GLU:O	6:y:56:VAL:N	2.22	0.66
6:y:118:THR:O	6:y:120:ASP:N	2.29	0.66
6:y:149:SER:H	6:y:150:SER:C	2.03	0.66
3:z:151:LEU:C	3:z:153:LEU:H	2.02	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
10:4:332:GLU:CD	10:4:364:LYS:HD3	2.19	0.66
12:6:482:PHE:HE1	12:6:486:ILE:HD11	1.60	0.66
13:7:236:LEU:C	13:7:238:GLU:N	2.52	0.66
14:8:23:PHE:CE1	14:8:28:LYS:O	2.43	0.66
1:I:316:LEU:HD11	1:I:327:VAL:CG2	2.26	0.66
2:H:126:SER:OG	2:H:129:VAL:HG22	1.96	0.66
3:L:194:ASN:HB3	3:L:228:CYS:HA	1.76	0.66
3:L:205:ASP:OD2	3:L:210:GLU:OE2	2.14	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
5:J:57:ARG:NH1	7:N:644:TYR:CG	2.64	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
7:N:345:ASN:O	7:N:743:ASN:ND2	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:573:ASP:O	7:N:579:ARG:NE	2.28	0.66
9:P:453:HIS:O	9:P:454:ASN:CB	2.44	0.66
14:U:67:VAL:HG11	16:W:88:THR:CG2	2.25	0.66
16:W:19:GLY:HA2	16:W:25:ARG:H	1.61	0.66
2:v:176:ASP:O	33:v:501:ADP:C2	2.49	0.66
6:y:70:LYS:HA	6:y:73:LEU:CD1	2.26	0.66
6:y:183:LEU:HB3	6:y:184:PRO:HD3	1.77	0.66
3:z:185:ARG:HA	4:0:320:PHE:HZ	1.61	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
14:8:240:VAL:O	14:8:242:LEU:N	2.25	0.66
1:I:107:MET:HE1	1:I:151:LEU:CD1	2.24	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:271:PHE:HB3	1:I:322:ARG:HH21	1.59	0.66
1:I:275:GLU:CB	1:I:322:ARG:HH12	2.09	0.66
2:H:102:ILE:HD11	2:H:120:LYS:HG2	1.77	0.66
2:H:164:MET:SD	2:H:244:GLU:OE1	2.53	0.66
2:H:191:VAL:HG11	2:H:229:VAL:CG1	2.25	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
4:M:303:ASP:O	4:M:307:GLN:CD	2.38	0.66
4:M:310:MET:HE3	4:M:339:ASP:HB2	1.76	0.66
6:K:70:LYS:HA	6:K:73:LEU:CD1	2.26	0.66
6:K:147:ALA:CB	6:K:249:ASP:CG	2.68	0.66
6:K:337:ASP:O	6:K:341:LYS:HG3	1.96	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
9:P:420:ASP:O	9:P:421:PRO:C	2.40	0.66
14:U:94:TRP:CZ3	14:U:121:LEU:HD11	2.27	0.66
14:U:94:TRP:CZ3	14:U:121:LEU:HD22	2.30	0.66
18:Z:353:LEU:O	18:Z:356:ASN:O	2.15	0.66
22:k:120:GLN:NE2	23:l:133:MET:SD	2.69	0.66
2:v:190:VAL:HG13	2:v:212:VAL:HG23	1.75	0.66
2:v:405:THR:N	2:v:408:ASP:OD2	2.24	0.66
5:x:229:ARG:C	5:x:230:MET:HG3	2.20	0.66
6:y:149:SER:CB	6:y:250:VAL:HG22	2.21	0.66
6:y:337:ASP:O	6:y:341:LYS:CG	2.44	0.66
4:0:90:VAL:HG12	4:0:164:LEU:HD11	1.77	0.66
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
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
6:K:226:ALA:HB2	6:K:257:ASN:ND2	2.08	0.65
13:T:236:LEU:C	13:T:238:GLU:N	2.52	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
22:E:132:LEU:HD22	22:E:144:LEU:HD11	1.78	0.65
29:d:140:LEU:HD13	30:s:166:ARG:CZ	2.26	0.65
24:m:6:TYR:OH	25:n:8:ASP:OD2	2.12	0.65
2:v:126:SER:OG	2:v:129:VAL:HG22	1.96	0.65
5:x:81:ASP:O	5:x:82:LYS:HB2	1.96	0.65
5:x:184:LYS:HG3	5:x:280:LEU:HD13	1.78	0.65
6:y:228:ILE:HG21	6:y:250:VAL:HG13	1.78	0.65
6:y:386:ALA:O	6:y:391:ARG:HG3	1.97	0.65
3:z:61:LEU:CD1	3:z:78:ARG:HD3	2.25	0.65
4:0:375:VAL:O	4:0:414:GLU:HG3	1.95	0.65
11:5:214:MET:HG3	11:5:218:THR:OG1	1.96	0.65
13:7:332:SER:HG	15:9:303:MET:C	1.94	0.65
1:I:363:ARG:O	1:I:367:ILE:HD12	1.96	0.65
3:L:226:GLN:HB2	3:L:272:ARG:HB3	1.78	0.65
6:K:80:LYS:CB	15:V:151:VAL:HG21	2.21	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
11:R:191:ILE:C	11:R:291:HIS:CE1	2.75	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
2:v:307:ASP:HB2	2:v:336:ARG:HG2	1.79	0.65
5:x:85:VAL:HG21	5:x:99:VAL:HG12	1.77	0.65
5:x:92:GLU:OE1	5:x:95:PHE:HE2	1.80	0.65
6:y:70:LYS:CE	14:8:182:THR:HG21	2.26	0.65
6:y:147:ALA:CB	6:y:249:ASP:CG	2.68	0.65
4:0:175:MET:SD	4:0:251:LEU:HD13	2.37	0.65
8:2:35:HIS:CB	16:AA:14:GLU:HG2	2.12	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:2:343:LEU:HD13	8:2:343:LEU:C	2.20	0.65
10:4:84:LYS:HZ1	10:4:88:LEU:HD21	1.61	0.65
10:4:133:LEU:HD11	10:4:137:TYR:CE2	2.31	0.65
18:AC:836:GLU:O	18:AC:837:LEU:CB	2.43	0.65
1:I:234:LEU:CD1	33:I:501:ADP:H2'	2.26	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
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
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
7:N:523:SER:HA	7:N:559:ARG:HD2	1.77	0.65
8:O:35:HIS:CB	16:W:14:GLU:HG2	2.12	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:21:GLN:CG	11:R:286:TRP:HE3	2.02	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: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
21:D:12:PHE:HB2	22:E:18:GLN:OE1	1.96	0.65
19:h:25:VAL:HG11	19:h:157:ALA:HB2	1.77	0.65
23:l:98:ASN:OD1	30:s:61:ARG:NE	2.29	0.65
28:q:58:THR:OG1	29:r:121:LEU:O	2.12	0.65
2:v:164:MET:SD	2:v:244:GLU:OE1	2.53	0.65
2:v:212:VAL:HG22	2:v:339:ARG:HB2	1.79	0.65
1:w:275:GLU:CB	1:w:322:ARG:HH12	2.09	0.65
1:w:287:ILE:O	1:w:290:ILE:CG2	2.34	0.65
5:x:148:TYR:OH	5:x:203:VAL:HG22	1.96	0.65
5:x:334:ARG:O	11:5:173:ASP:HB2	1.95	0.65
6:y:79:VAL:O	6:y:82:ILE:HG22	1.96	0.65
6:y:236:VAL:HG12	6:y:288:ILE:CD1	2.24	0.65
3:z:126:ASP:CG	3:z:197:LYS:CD	2.48	0.65
7:1:699:THR:HB	7:1:706:VAL:HG21	1.78	0.65
8:2:70:ARG:C	16:AA:17:ARG:NH2	2.55	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
14:8:99:PRO:O	14:8:123:ILE:HG21	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:L:352:MET:O	3:L:356:ARG:CB	2.43	0.65
4:M:175:MET:SD	4:M:251:LEU:HD13	2.37	0.65
4:M:233:LYS:CG	4:M:354:PHE:CD2	2.79	0.65
5:J:184:LYS:HG3	5:J:280:LEU:HD13	1.78	0.65
6:K:149:SER:H	6:K:150:SER:C	2.03	0.65
6:K:170:MET:O	6:K:174:LYS:CG	2.44	0.65
6:K:386:ALA:O	6:K:391:ARG:HG3	1.97	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
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
29:d:44:LEU:HD11	29:d:102:LEU:HD12	1.78	0.65
5:x:214:VAL:CG2	5:x:234:LEU:CD1	2.75	0.65
3:z:205:ASP:OD2	3:z:210:GLU:OE2	2.14	0.65
3:z:312:ILE:CD1	33:z:401:ADP:N6	2.59	0.65
4:0:272:PHE:HE2	4:0:316: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
1:I:390:LEU:HD11	1:I:395:ILE:CG1	2.25	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
3:L:61:LEU:HD11	3:L:78:ARG:HE	1.62	0.65
3:L:291:ARG:HE	3:L:294:ARG:NH1	1.90	0.65
3:L:316:HIS:HE1	33:L:401:ADP:N3	1.95	0.65
3:L:385:ASP:N	3:L:385:ASP:OD1	2.29	0.65
4:M:359:GLU:O	4:M:363:ALA:N	2.27	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
7:N:12:LEU:HD11	7:N:48:LEU:HD11	1.78	0.65
7:N:699:THR:HB	7:N:706:VAL:HG21	1.78	0.65
8:O:343:LEU:C	8:O:343:LEU:HD13	2.20	0.65
29:r:44:LEU:HD11	29:r:102:LEU:HD12	1.79	0.65
2:v:303:ILE:HG23	2:v:336:ARG:NH1	2.10	0.65
1:w:235:LEU:O	1:w:239:VAL:HG23	1.95	0.65
1:w:316:LEU:HD11	1:w:327:VAL:CG2	2.26	0.65
1:w:390:LEU:HD11	1:w:395:ILE:HD11	1.79	0.65
5:x:328:ILE:HA	5:x:331:ILE:HD12	1.79	0.65
6:y:93:LEU:CG	6:y:94:GLU:HG3	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:87:LEU:HD11	3:z:107:ILE:HG22	1.78	0.65
3:z:304:PRO:C	3:z:308:ALA:HB3	2.22	0.65
7:1:345:ASN:O	7:1:743:ASN:ND2	2.29	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
9:3:420:ASP:O	9:3:421:PRO:C	2.40	0.65
9:3:427:ASP:O	9:3:431:LYS:HG3	1.96	0.65
9:3:432:LEU:CD2	15:9:309:PHE:HD2	2.10	0.65
10:4:56:LEU:O	10:4:60:THR:N	2.30	0.65
10:4:190:LEU:HD21	10:4:214:SER:HA	1.78	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
1:I:94:GLU:HA	1:I:97:SER:OG	1.96	0.65
2:H:95:VAL:HG13	2:H:96:ALA:N	2.12	0.65
3:L:56:ILE:CD1	4:M:132:TYR:HE1	2.10	0.65
3:L:122:MET:HE1	3:L:218:MET:CG	2.25	0.65
3:L:164:ILE:HD13	6:K:383:GLY:CA	2.26	0.65
4:M:232:GLY:CA	33:M:501:ADP:C8	2.79	0.65
4:M:360:GLU:O	4:M:364:ARG:N	2.29	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
6:K:70:LYS:CE	14:U:182:THR:HG21	2.26	0.65
6:K:130:VAL:C	6:K:143:LEU:CD2	2.69	0.65
6:K:370:ILE:HD11	6:K:407:ILE:HG13	1.78	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
10:Q:222:GLU:OE2	10:Q:225:TRP:HH2	1.79	0.65
14:U:47:VAL:HG12	14:U:48:LEU:N	2.09	0.65
20:C:50:LYS:NZ	20:C:199:GLU:O	2.29	0.65
22:E:96:LEU:HG	29:d:62:LYS:HG2	1.79	0.65
27:b:172:ASN:OD1	27:b:191:VAL:CG2	2.44	0.65
23:l:84:ASP:OD2	23:l:135:ARG:NH2	2.29	0.65
2:v:277:ILE:HD12	2:v:277:ILE:N	2.12	0.65
1:w:247:PHE:CE2	5:x:283:PHE:HZ	2.14	0.65
6:y:149:SER:O	6:y:230:VAL:HG21	1.94	0.65
6:y:170:MET:O	6:y:174:LYS:CG	2.44	0.65
3:z:114:GLU:CB	4:0:95:GLU:OE2	2.44	0.65
4:0:235:LEU:O	4:0:239:ALA:N	2.22	0.65
7:1:68:PHE:O	7:1:73:ALA:N	2.28	0.65
7:1:492:ASP:O	7:1:496:LEU:N	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:632:GLN:O	7:1:636:VAL:N	2.22	0.65
8:2:21:VAL:O	8:2:24:ARG:HB2	1.96	0.65
11:5:191:ILE:C	11:5:291:HIS:CE1	2.75	0.65
11:5:268:TYR:CE2	11:5:307:LEU:HD13	2.31	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
29:r:21:ALA:HB3	29:r:29:LYS:HB3	1.78	0.65
2:v:102:ILE:HD11	2:v:120:LYS:HG2	1.77	0.65
2:v:431:THR:O	2:v:431:THR:HG23	1.96	0.65
1:w:190:LEU:HD12	1:w:194:ILE:HD11	1.77	0.65
1:w:287:ILE:HD11	1:w:331:THR:HG1	1.57	0.65
6:y:377:SER:O	6:y:381:GLU:HB2	1.96	0.65
3:z:145:LEU:HD13	3:z:299:ILE:CD1	2.26	0.65
3:z:150:GLU:C	3:z:152:PRO:HD2	2.21	0.65
3:z:194:ASN:HB3	3:z:228:CYS:HA	1.76	0.65
3:z:253:ILE:CD1	4:0:308:ARG:HH12	2.10	0.65
4:0:53:LYS:O	4:0:57: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
13:7:215:LEU:O	13:7:216:PRO:C	2.39	0.65
13:7:346:LEU:HA	13:7:349:ILE:HD12	1.77	0.65
14:8:45:LYS:CG	14:8:46:LYS:N	2.57	0.65
18:AC:353:LEU:O	18:AC:356:ASN:O	2.15	0.65
2:H:132:THR:O	2:H:134:ILE:N	2.26	0.65
2:H:212:VAL:HG22	2:H:339:ARG:HB2	1.79	0.65
2:H:241:ILE:HG22	2:H:243:SER:H	1.62	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
6:K:79:VAL:O	6:K:82:ILE:HG22	1.96	0.65
6:K:92:PHE:CD2	6:K:124:LEU:HG	2.31	0.65
6:K:121:ARG:C	6:K:123:LEU:N	2.55	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:162:ASP:OD2	10:Q:165:LEU:HD12	1.96	0.65
10:Q:163:LYS:HD2	10:Q:200:ILE:HG22	1.73	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W:139:ASP:OD2	16:W:187:PRO:O	2.15	0.65
2:v:132:THR:O	2:v:134:ILE:N	2.26	0.65
1:w:144:LEU:CG	1:w:162:VAL:HG23	2.16	0.65
1:w:225:TYR:C	1:w:232:LYS:HE2	2.20	0.65
1:w:313:LEU:HD12	1:w:340:ALA:HB3	1.74	0.65
5:x:92:GLU:OE1	5:x:95:PHE:CE2	2.50	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
10:4:206:LEU:HD23	10:4:206:LEU:C	2.20	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
14:8:83: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
14:8:108:ILE:O	14:8:111:LEU:HB3	1.97	0.65
15:9:71:ASP:OD2	15:9:104:ARG:HD3	1.96	0.65
1:I:162:VAL:CG1	1:I:163:LEU:N	2.59	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
5:J:271:ARG:HG2	5:J:275:GLU:OE1	1.97	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
1:w:220:LYS:HB2	1:w:348:ASP:OD2	1.97	0.65
5:x:271:ARG:HG2	5:x:275:GLU:OE1	1.97	0.65
3:z:150:GLU:HA	3:z:153:LEU:HD21	1.79	0.65
3:z:185:ARG:HA	4:0:320:PHE:CZ	2.31	0.65
4:0:80:ILE:HG23	4:0:84:LYS:CE	2.25	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
8:2:38:THR:O	8:2:42:LEU:CB	2.45	0.65
16:AA:19:GLY:HA2	16:AA:25:ARG:H	1.61	0.65
18:AC:730:GLY:O	18:AC:734:SER:N	2.27	0.65
1:I:390:LEU:HD11	1:I:395:ILE:HD11	1.79	0.65
2:H:277:ILE:HD12	2:H:277:ILE:N	2.12	0.65
3:L:185:ARG:HA	4:M:320:PHE:HZ	1.61	0.65
3:L:264:MET:HE1	3:L:277:MET:HE2	1.79	0.65
4:M:343:LEU:HB3	4:M:351:LYS:HZ3	1.62	0.65
5:J:85:VAL:HG21	5:J:99:VAL:HG12	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:86:LEU:C	5:J:86:LEU:HD13	2.23	0.65
6:K:230:VAL:HG11	6:K:235:PHE:CZ	2.32	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:83:LYS:NZ	14:U:89:GLU:O	2.30	0.65
14:U:139:ILE:O	14:U:155:PHE:HA	1.97	0.65
15:V:58:LEU:HB2	15:V:71:ASP:HB2	1.77	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
29:d:21:ALA:HB3	29:d:29:LYS:HB3	1.79	0.65
2:v:307:ASP:OD2	2:v:335:GLY:O	2.15	0.65
2:v:383:ALA:O	2:v:386:ARG:HB3	1.97	0.65
3:z:52:SER:C	3:z:53:VAL:HG23	2.22	0.65
3:z:166:PRO:HB2	3:z:274:LYS:HZ3	1.62	0.65
3:z:343:LEU:O	3:z:346:VAL:HB	1.96	0.65
3:z:356:ARG:O	3:z:358:ASP:N	2.30	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
1:I:250:VAL:HG11	1:I:270:LEU:HD22	1.78	0.64
2:H:362:MET:HE2	2:H:364:VAL:CG1	2.20	0.64
3:L:172:LEU:CD2	3:L:301:ILE:HD11	2.20	0.64
5:J:92:GLU:OE1	5:J:95:PHE:HE2	1.80	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
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
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
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
20:C:225:VAL:O	20:C:229:LEU:HG	1.98	0.64
22:k:132:LEU:HD22	22:k:144:LEU:HD11	1.79	0.64
1:w:271:PHE:CB	1:w:315:GLN:NE2	2.60	0.64
1:w:298:ASN:ND2	1:w:299:SER:H	1.94	0.64
5:x:329:LEU:CD2	5:x:344:LEU:HB3	2.27	0.64
6:y:70:LYS:HD3	14:8:182:THR:HG21	1.78	0.64
6:y:190:LEU:HB3	6:y:194:ILE:HD12	1.79	0.64
6:y:348:ILE:HG22	6:y:379:CYS:CB	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:394:VAL:CG1	6:y:395:LEU:H	2.09	0.64
6:y:394:VAL:HG11	6:y:398:ASP:CB	2.25	0.64
3:z:322:LYS:CB	3:z:326:ILE:CD1	2.74	0.64
3:z:344:ARG:CZ	33:z:401:ADP:O2'	2.44	0.64
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
8:2:108:ASP:O	8:2:109:GLU:C	2.41	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
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
2:H:177:VAL:HG11	2:H:184:ILE:HD11	1.78	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
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
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
16:W:32:ALA:HB2	16:W:179:LEU:HD23	1.79	0.64
23:F:20:ARG:HD2	4:0:435:LEU:CD1	2.27	0.64
2:v:125:LEU:CB	2:v:149:ILE:HB	2.27	0.64
2:v:217:PRO:CG	2:v:345:LEU:HD21	2.27	0.64
1:w:369:THR:HG23	1:w:399:CYS:SG	2.37	0.64
5:x:57:ARG:NH1	7:1:644:TYR:CG	2.64	0.64
5:x:188:LEU:HB3	5:x:317:PHE:HE1	1.61	0.64
6:y:345:PHE:CE2	6:y:360:LEU:HD21	2.32	0.64
3:z:291:ARG:HD2	3:z:292:PRO:O	1.97	0.64
3:z:322:LYS:HB2	3:z:326:ILE:CD1	2.26	0.64
4:0:78:GLU:HA	4:0:81:LYS:HG3	1.80	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
8:2:223:GLU:HA	8:2:226:ARG:CG	2.27	0.64
9:3:23:THR:HA	9:3:40:LEU:CB	2.27	0.64
9:3:231:ILE:CG1	9:3:247:TYR:CZ	2.80	0.64
11:5:268:TYR:HB3	11:5:323:PHE:HE1	1.63	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
15:9:226:MET:HE3	15:9:227:GLU:N	2.12	0.64
3:L:221:TYR:O	3:L:225:HIS:HB2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:J:88:LYS:HA	5:J:94:LYS:HA	1.79	0.64
5:J:338:LEU:HD22	5:J:342:ILE:HD13	1.79	0.64
8:O:108:ASP:O	8:O:109:GLU:C	2.41	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
19:h:25:VAL:O	19:h:29:PHE:HD1	1.80	0.64
20:i:44:VAL:CG2	20:i:183:LEU:CD2	2.76	0.64
2:v:95:VAL:HG13	2:v:96:ALA:N	2.12	0.64
1:w:249:ARG:HH21	5:x:278:ASN:HB2	1.63	0.64
5:x:130:LYS:O	5:x:131:VAL:CG2	2.44	0.64
5:x:376:VAL:HA	6:y:194:ILE:HG12	1.78	0.64
6:y:391:ARG:NH1	6:y:395:LEU:CG	2.53	0.64
3:z:235:ILE:CD1	3:z:277:MET:SD	2.85	0.64
4:0:90:VAL:HA	4:0:151:VAL:O	1.98	0.64
7:1:35:TRP:O	7:1:39:SER:N	2.29	0.64
7:1:146:LYS:O	7:1:149:GLN:HB3	1.97	0.64
7:1:377:HIS:HB3	7:1:411:ILE:HG23	1.79	0.64
1:I:204:PRO:O	1:I:208:PRO:CB	2.42	0.64
1:I:220:LYS:HB2	1:I:348:ASP:OD2	1.97	0.64
1:I:247:PHE:CE2	5:J:283:PHE:HZ	2.14	0.64
2:H:307:ASP:HB2	2:H:336:ARG:HG2	1.79	0.64
6:K:348:ILE:HG22	6:K:379:CYS:CB	2.27	0.64
7:N:398:ASN:HB3	7:N:437:TYR:CD2	2.33	0.64
7:N:405:THR:HG21	7:N:438:GLN:O	1.98	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:71:ASN:HB3	11:R:75:LYS:HZ2	1.63	0.64
11:R:186:LEU:HA	11:R:201:PHE:CZ	2.31	0.64
11:R:214:MET:HE2	11:R:219:PHE:HB2	1.78	0.64
14:U:69:PHE:HZ	16:W:63:THR:HG21	1.62	0.64
15:V:226:MET:HE3	15:V:227:GLU:N	2.12	0.64
16:W:97:LEU:HD13	16:W:107:MET:HB3	1.78	0.64
2:v:313:GLY:C	2:v:315:ILE:HD12	2.21	0.64
5:x:87:VAL:O	5:x:95:PHE:N	2.29	0.64
5:x:90:HIS:CB	5:x:91:PRO:CD	2.67	0.64
5:x:203:VAL:O	5:x:207:THR:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:116:LEU:C	6:y:119:ILE:CD1	2.66	0.64
3:z:338:PHE:HZ	3:z:375:ALA:HB2	0.85	0.64
4:0:47:LEU:O	4:0:51:GLU:N	2.29	0.64
4:0:87:PRO:HB2	4:0:155: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
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
2:H:307:ASP:OD2	2:H:335:GLY:O	2.15	0.64
2:H:416:VAL:HA	2:H:420:TYR:CD2	2.32	0.64
3:L:61:LEU:HD11	3:L:72:LYS:HB2	1.80	0.64
3:L:145:LEU:HD13	3:L:299:ILE:HD13	1.80	0.64
4:M:175:MET:HE2	4:M:251:LEU:CD1	2.27	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
5:J:329:LEU:CD2	5:J:344:LEU:HB3	2.27	0.64
6:K:93:LEU:CG	6:K:94:GLU:HG3	2.26	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
12:S:469:THR:CG2	14:U:250:TYR:CG	2.80	0.64
14:U:96:HIS:HE1	14:U:100:LYS:O	1.80	0.64
18:Z:661:ALA:CB	18:Z:693:ALA:O	2.46	0.64
2:v:272:ILE:CG2	2:v:274:PHE:CZ	2.81	0.64
2:v:348:LEU:HD23	2:v:351:ARG:HH22	1.63	0.64
1:w:290:ILE:O	1:w:305:ILE:CG2	2.45	0.64
5:x:274:LEU:HG	5:x:305:LEU:CD1	2.27	0.64
3:z:56:ILE:CD1	4:0:132:TYR:HE1	2.10	0.64
3:z:385:ASP:N	3:z:385:ASP:OD1	2.29	0.64
4:0:246:ALA:CB	4:0:280:PRO:HG2	2.28	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:CG2	2.46	0.64
9:3:401:THR:O	9:3:402:ILE:HG23	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
14:8:83:LYS:HZ1	14:8:90:ARG:HA	1.63	0.64
18:AC:265:ALA:O	18:AC:269:ALA: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
2:H:120:LYS:HB2	4:M:90:VAL:CG2	2.27	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
4:M:431:LYS:HB2	23:l:18:GLU:OE2	1.97	0.64
5:J:41:ASN:O	5:J:44:ARG:N	2.31	0.64
9:P:401:THR:O	9:P:402:ILE:HG23	1.97	0.64
13:T:89:GLN:CB	13:T:115:GLU:OE1	2.46	0.64
13:T:215:LEU:O	13:T:216:PRO:C	2.39	0.64
16:W:119:ASP:OD1	16:W:120:ASN:N	2.28	0.64
23:l:104:ASN:OD1	30:s:57:ARG:NH2	2.31	0.64
2:v:420:TYR:CE1	1:w:350:LYS:HB2	2.33	0.64
5:x:65:LEU:HD21	6:y:114:ARG:CZ	2.28	0.64
5:x:86:LEU:C	5:x:86:LEU:HD13	2.23	0.64
5:x:214:VAL:HG21	5:x:234:LEU:CD1	2.26	0.64
3:z:61:LEU:HD11	3:z:78:ARG:CD	2.26	0.64
3:z:61:LEU:HD11	3:z:78:ARG:HE	1.62	0.64
3:z:387:LYS:HG2	3:z:388:PRO:HD2	1.80	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
11:5:168:ILE:CG2	11:5:177:ARG:HE	2.10	0.64
11:5:214:MET:HE2	11:5:219:PHE:HB2	1.78	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: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
4:M:89:LEU:HD21	4:M:126:THR:CG2	2.28	0.64
4:M:89:LEU:HD13	4:M:128:THR:HG23	1.80	0.64
4:M:231:THR:HG22	4:M:356:MET:HA	1.79	0.64
4:M:294:LYS:CG	4:M:339:ASP:OD1	2.46	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
5:J:88:LYS:HE3	5:J:93:GLY:HA2	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:274:LEU:HG	5:J:305:LEU:CD1	2.27	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
8:O:70:ARG:C	16:W:17:ARG:NH2	2.55	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
2:v:86:THR:CA	2:v:89:SER:OG	2.41	0.64
2:v:416:VAL:HA	2:v:420:TYR:CD2	2.32	0.64
2:v:421:ALA:O	2:v:424:SER:OG	2.11	0.64
5:x:279:GLN:O	5:x:284:GLU:HG2	1.95	0.64
6:y:113:VAL:HG23	6:y:139:LEU:HD12	1.80	0.64
6:y:372:GLY:O	33:y:501:ADP:C8	2.51	0.64
3:z:201:SER:HB2	4:0:312:GLU:OE1	1.98	0.64
3:z:312:ILE:HD13	33:z:401:ADP:C6	2.33	0.64
7:1:12:LEU:HD11	7:1:48:LEU:HD11	1.78	0.64
10:4:212:MET:HE3	10:4:250:SER:HB2	1.80	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:424:GLU:CA	1:I:428:TYR:CE2	2.71	0.64
2:H:233:THR:O	2:H:234:ASP:CB	2.30	0.64
2:H:297:ARG:NH1	4:M:306:VAL:HG21	2.12	0.64
4:M:231:THR:C	33:M:501:ADP:C8	2.76	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
7:N:201:LEU:CG	7:N:202:VAL:H	2.11	0.64
2:v:330:ALA:HB1	2:v:336:ARG:HH12	1.58	0.64
1:w:252:GLY:O	1:w:255:LEU:N	2.30	0.64
5:x:41:ASN:O	5:x:44:ARG:N	2.31	0.64
5:x:88:LYS:HE3	5:x:93:GLY:HA2	1.79	0.64
5:x:220:VAL:HG12	5:x:224:ILE:HD12	1.79	0.64
6:y:91:GLN:CA	6:y:128:ALA:O	2.44	0.64
6:y:230:VAL:HG11	6:y:235:PHE:CZ	2.32	0.64
3:z:172:LEU:HD13	3:z:180:LYS:HA	1.80	0.64
3:z:226:GLN:HB2	3:z:272:ARG:HB3	1.78	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
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
3:L:235:ILE:CD1	3:L:277:MET:SD	2.85	0.64
3:L:304:PRO:C	3:L:308:ALA:HB3	2.22	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
10:Q:61:GLY:C	10:Q:63:ALA:N	2.53	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
21:D:6:ASP:OD2	22:E:3:TYR:OH	2.10	0.64
31:t:99:ARG:NH1	31:t:102:PHE:O	2.31	0.64
2:v:125:LEU:CD1	2:v:126:SER:O	2.45	0.64
2:v:241:ILE:HG22	2:v:243:SER:H	1.62	0.64
2:v:277:ILE:HG21	2:v:319:MET:HG2	1.79	0.64
5:x:114:VAL:HA	5:x:127:LEU:H	1.63	0.64
6:y:354:LEU:HD12	6:y:394:VAL:H	1.62	0.64
3:z:145:LEU:HD13	3:z:299:ILE:HD13	1.80	0.64
4:0:80:ILE:O	4:0:84:LYS:N	2.30	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
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:HG3	11:5:379:ARG:NH1	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
1:I:107:MET:CE	1:I:160:ILE:HD12	2.22	0.64
1:I:170:LEU:HD11	1:I:269:GLU:CB	2.26	0.64
2:H:142:VAL:O	2:H:143:ASP:C	2.41	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
12:S:480:ILE:HD12	12:S:480:ILE:H	1.63	0.64
14:U:174:HIS:O	14:U:177:ARG:HG2	1.98	0.64
29:d:140:LEU:HD22	30:s:166:ARG:NH2	2.13	0.64
22:k:80:ALA:HA	22:k:129:ILE:HD13	1.80	0.64
1:w:316:LEU:HD11	1:w:327:VAL:HG21	1.80	0.64
6:y:41:TYR:CZ	7:1:183:LEU:HD23	2.32	0.64
6:y:275:PHE:CZ	6:y:289:LEU:CD1	2.67	0.64
6:y:293:LEU:CD2	6:y:326:ARG:HH12	1.86	0.64
6:y:370:ILE:HD11	6:y:407:ILE:HG13	1.78	0.64
4:0:175:MET:HE2	4:0:251:LEU:CD1	2.27	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
8:2:363:MET:HG3	15:9:308:VAL:HG22	1.80	0.64
10:4:32:LYS:CB	10:4:33:ARG:CA	2.76	0.64
10:4:171:LEU:HD21	10:4:210:LEU:HA	1.81	0.64
1:I:230:THR:HG21	1:I:353:PHE:HB2	1.73	0.63
2:H:111:TYR:OH	2:H:125:LEU:HD22	1.98	0.63
3:L:93:LYS:HB3	3:L:94:PRO:HD3	1.79	0.63
3:L:166:PRO:HB2	3:L:274:LYS:HZ3	1.61	0.63
3:L:356:ARG:O	3:L:358:ASP:N	2.30	0.63
4:M:80:ILE:O	4:M:84:LYS:N	2.30	0.63
4:M:175:MET:CE	4:M:251:LEU:HD13	2.28	0.63
5:J:81:ASP:O	5:J:82:LYS:HB2	1.96	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
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
24:G:196:ARG:HD3	24:G:239:ARG:CZ	2.28	0.63
30:e:115:ASP:HB2	30:e:119:ASN:HB2	1.80	0.63
20:i:225:VAL:O	20:i:229:LEU:HG	1.98	0.63
2:v:120:LYS:HB2	4:0:90:VAL:CG2	2.27	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:425:ALA:CB	1:w:339:PRO:CG	2.75	0.63
1:w:399:CYS:HA	1:w:419:PHE:CE1	2.34	0.63
5:x:88:LYS:HA	5:x:94:LYS:HA	1.79	0.63
5:x:115:ALA:O	5:x:124:HIS:N	2.31	0.63
6:y:383:GLY:CA	3:z:164:ILE:HD13	2.26	0.63
6:y:409:LYS:O	6:y:412:GLN:NE2	2.29	0.63
3:z:93:LYS:HB3	3:z:94:PRO:HD3	1.79	0.63
3:z:221:TYR:O	3:z:225:HIS:HB2	1.98	0.63
3:z:363:VAL:HG23	3:z:364:GLN:N	1.93	0.63
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:N	9:3:451:MET:SD	2.71	0.63
11:5:260:LEU:HD22	11:5:260:LEU:C	2.23	0.63
13:7:341:GLU:O	13:7:345:GLN:N	2.24	0.63
16:AA:13:SER:H	16:AA:16:MET:HB2	1.62	0.63
16:AA:139:ASP:OD2	16:AA:187:PRO:O	2.15	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
2:H:383:ALA:O	2:H:386:ARG:HB3	1.97	0.63
3:L:150:GLU:HA	3:L:153:LEU:HD21	1.79	0.63
6:K:70:LYS:CD	14:U:182:THR:HG21	2.29	0.63
7:N:680:VAL:HB	7:N:683:VAL:HG23	1.80	0.63
8:O:35:HIS:CG	16:W:14:GLU:CD	2.77	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
10:Q:415:TYR:CD1	11:R:383:LEU:CB	2.81	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
20:i:50:LYS:NZ	20:i:199:GLU:O	2.29	0.63
22:k:96:LEU:HG	29:r:62:LYS:HG2	1.80	0.63
1:w:218:PRO:CG	1:w:326:LYS:HZ1	2.11	0.63
1:w:254:GLU:HG2	5:x:275:GLU:HG2	1.80	0.63
1:w:313:LEU:CD1	1:w:340:ALA:HB3	2.26	0.63
6:y:121:ARG:O	6:y:122:GLU:C	2.41	0.63
6:y:275:PHE:CE2	6:y:289:LEU:HD12	2.31	0.63
3:z:61:LEU:HD11	3:z:72:LYS:HB2	1.80	0.63
3:z:87:LEU:HD11	3:z:107:ILE:CG2	2.28	0.63
4:0:202:ILE:HD13	4:0:329:ILE:HD11	1.75	0.63

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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	0.63
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
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
12:6:477:HIS:C	13:7:342:TYR:OH	2.41	0.63
18:AC:438:ASP:O	18:AC:442:SER:N	2.21	0.63
1:I:399:CYS:HA	1:I:419:PHE:CE1	2.34	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
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
5:J:78:ARG:O	5:J:86:LEU:HB3	1.98	0.63
5:J:151:ILE:O	5:J:151:ILE:HG22	1.98	0.63
5:J:228:ALA:CB	5:J:233:GLU:CD	2.71	0.63
5:J:232:ARG:HE	5:J:279:GLN:CD	2.06	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
11:R:208:PHE:CD2	11:R:216:TYR:HD1	2.12	0.63
23:F:18:GLU:CD	4:0:431:LYS:HD2	2.23	0.63
23:l:36:THR:HG23	23:l:51:GLU:OE1	1.98	0.63
5:x:46:GLN:CB	6:y:61:ILE:HG21	2.29	0.63
5:x:66:LEU:O	6:y:136:SER:HA	1.98	0.63
6:y:42:SER:O	6:y:46:LYS:HB2	1.98	0.63
3:z:316:HIS:HE1	33:z:401:ADP:N3	1.95	0.63
7:1:56:SER:O	7:1:59:PHE:N	2.25	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
7:1:680: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
9:3:48:LEU:HD21	9:3:90:LEU:CG	2.28	0.63
9:3:180:LYS:O	9:3:184:GLU:HB2	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:154:HIS:CE1	5:J:95:PHE:CD1	2.84	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
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
6:K:354:LEU:HD12	6:K:394:VAL:H	1.62	0.63
7:N:146:LYS:O	7:N:149:GLN:HB3	1.97	0.63
7:N:803:LYS:H	7:N:879:ASP:CG	2.06	0.63
9:P:23:THR:HA	9:P:40:LEU:CB	2.27	0.63
9:P:401:THR:O	9:P:402:ILE:CG2	2.46	0.63
9:P:432:LEU:HD22	15:V:309:PHE:HD2	1.62	0.63
10:Q:96:PHE:CE2	10:Q:106:GLU:HA	2.32	0.63
11:R:260:LEU:HD22	11:R:260:LEU:C	2.23	0.63
2:v:153:LEU:HD22	1:w:132:TYR:OH	1.97	0.63
2:v:186:LYS:HB2	2:v:341:ILE:HD11	1.80	0.63
1:w:232:LYS:CA	1:w:353:PHE:HE2	2.05	0.63
5:x:207:THR:CG2	5:x:209:CYS:HB2	2.29	0.63
4:0:172:VAL:HG21	4:0:270:ASP:HB2	1.81	0.63
4:0:231:THR:C	33:0:501:ADP:C8	2.76	0.63
7:1:119:PRO:C	7:1:120:GLU:HG2	2.23	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
7:1:803:LYS:H	7:1:879:ASP:CG	2.06	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
12:6:476:PHE:C	12:6:480:ILE:CD1	2.70	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
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
2:H:172:VAL:O	2:H:228:ALA:HA	1.99	0.63
3:L:172:LEU:HD13	3:L:180:LYS:HA	1.80	0.63
4:M:265:ALA:HA	4:M:312:GLU:HG2	1.79	0.63
4:M:402:GLU:CD	4:M:426:GLU:OE1	2.41	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
7:N:6:ALA:HB1	13:T:169:ALA:HB1	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:228:MET:HE1	11:R:263:LEU:HB2	1.81	0.63
11:R:345:CYS:SG	11:R:354:VAL:HG13	2.38	0.63
12:S:477:HIS:C	13:T:342:TYR:OH	2.41	0.63
12:S:480:ILE:HD12	12:S:480:ILE:N	2.14	0.63
14:U:60:GLU:HB3	14:U:65:ASP:CG	2.24	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
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
30:e:38:ASN:ND2	30:e:40:TYR:CE1	2.66	0.63
2:v:297:ARG:NH1	4:0:306:VAL:HG21	2.12	0.63
1:w:278:ALA:HB1	1:w:279:PRO:HD3	1.81	0.63
6:y:96:VAL:CG2	6:y:112:TYR:HE1	2.11	0.63
6:y:381:GLU:HG3	6:y:405:THR:CG2	2.28	0.63
4:0:80:ILE:HG23	4:0:84:LYS:HE3	1.80	0.63
4:0:294:LYS:CG	4:0:339:ASP:OD1	2.46	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
12:6:463:MET:O	12:6:464:ILE:C	2.39	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
1:I:350:LYS:HB2	2:H:420:TYR:HE1	1.64	0.63
2:H:275:ASP:O	2:H:276:GLU:HB2	1.99	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
31:f:99:ARG:NH1	31:f:102:PHE:O	2.32	0.63
2:v:188:ARG:HD2	2:v:192:GLU:CD	2.23	0.63
5:x:228:ALA:CB	5:x:233:GLU:CD	2.71	0.63
6:y:191:TYR:HA	6:y:196:ILE:HD12	1.81	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
2:H:188:ARG:HD2	2:H:192:GLU:CD	2.23	0.63
4:M:87:PRO:HB2	4:M:155:LYS:CE	2.27	0.63
4:M:90:VAL:HA	4:M:151:VAL:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:46:GLN:CB	6:K:61:ILE:HG21	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
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
18:Z:796:LEU:O	18:Z:799:VAL:N	2.31	0.63
20:C:44:VAL:HG22	20:C:183:LEU:CD1	2.29	0.63
2:v:351:ARG:O	2:v:354:ILE:N	2.32	0.63
5:x:151:ILE:O	5:x:151:ILE:HG22	1.98	0.63
6:y:363:TYR:HB3	6:y:403:TYR:CZ	2.34	0.63
3:z:60:VAL:O	3:z:95:GLY:N	2.31	0.63
3:z:108:MET:O	3:z:109:ARG:CB	2.46	0.63
4:0:414:GLU:N	4:0:414:GLU:OE2	2.28	0.63
8:2:370:GLN:HB2	13:7:337:LYS:CD	2.29	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
1:I:271:PHE:CB	1:I:315:GLN:HE22	2.12	0.63
1:I:272:ARG:HG2	1:I:272:ARG:NH1	2.10	0.63
1:I:290:ILE:HD12	1:I:309:MET:HE3	1.80	0.63
2:H:125:LEU:CD1	2:H:126:SER:O	2.45	0.63
3:L:69:PHE:HZ	3:L:83:CYS:SG	2.21	0.63
3:L:195:PHE:HE1	3:L:229:ILE:HG13	1.54	0.63
4:M:169:ASP:O	4:M:172:VAL:N	2.31	0.63
5:J:220:VAL:HG12	5:J:224:ILE:HD12	1.79	0.63
6:K:175:GLN:HE21	6:K:179:GLU:CD	2.07	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
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:734:SER:CB	18:Z:768:LEU:O	2.46	0.63
2:v:190:VAL:HG11	2:v:212:VAL:CB	2.28	0.63
1:w:250:VAL:CG2	1:w:270:LEU:CD1	2.64	0.63
5:x:66:LEU:O	6:y:136:SER:CB	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:86:LEU:HD13	5:x:87:VAL:N	2.14	0.63
5:x:160:GLU:OE1	5:x:313:ARG:CZ	2.45	0.63
5:x:373:GLU:CG	5:x:375:ARG:HD2	2.25	0.63
6:y:171:ASP:O	6:y:175:GLN:N	2.26	0.63
3:z:155:ASN:OD1	3:z:158:LEU:HD12	1.97	0.63
7:1:6:ALA:HB1	13:7:169:ALA:HB1	1.80	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
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
12:6:494:MET:CB	14:8:275:LEU:CD2	2.77	0.63
14:8:223:ASN:O	14:8:225:GLN:N	2.32	0.63
3:L:108:MET:O	3:L:109:ARG:CB	2.46	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: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
6:K:92:PHE:O	6:K:127:ASN:CG	2.41	0.63
7:N:35:TRP:CZ2	12:S:273:LYS:HE2	2.34	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
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
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
22:E:209:ALA:HB1	22:E:217:LEU:HD11	1.79	0.63
19:h:22:LEU:HG	20:i:78:MET:HE1	1.81	0.63
2:v:254:ALA:HA	2:v:301:GLU:HG2	1.81	0.63
1:w:272:ARG:HG2	1:w:272:ARG:NH1	2.10	0.63
1:w:365:PHE:CZ	1:w:383:LEU:HB3	2.33	0.63
6:y:92:PHE:O	6:y:127:ASN:CG	2.41	0.63
3:z:290:LEU:HA	3:z:295:LEU:HD12	1.81	0.63
3:z:322:LYS:HZ2	3:z:326:ILE:CD1	2.12	0.63
7:1:35:TRP:CZ2	7:1:70:HIS:HB3	2.34	0.63
7:1:405:THR:HG21	7:1:438:GLN:O	1.98	0.63
8:2:248:PHE:CD2	8:2:272:ILE:HD11	2.33	0.63
8:2:360:VAL:O	8:2:361:LYS:C	2.41	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
1:I:232:LYS:HZ2	1:I:332:ASN:HD22	1.47	0.62
2:H:347:ASP:CG	2:H:348:LEU:H	2.07	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:87:LEU:HD11	3:L:107:ILE:CG2	2.28	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
4:M:53:LYS:O	4:M:57:SER:N	2.20	0.62
4:M:152:GLY:O	4:M:160:ILE:HA	1.99	0.62
5:J:116:LEU:HD23	5:J:121:TYR:CE1	2.34	0.62
6:K:171:ASP:O	6:K:175:GLN:N	2.26	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
30:s:115:ASP:HB2	30:s:119:ASN:HB2	1.81	0.62
2:v:291:GLY:O	2:v:293:ASN:N	2.26	0.62
1:w:107:MET:CE	1:w:160:ILE:HD12	2.22	0.62
1:w:175:LYS:HE3	1:w:277:HIS:ND1	2.14	0.62
1:w:218:PRO:CG	1:w:326:LYS:NZ	2.61	0.62
1:w:379:THR:O	1:w:381:ASP:N	2.32	0.62
6:y:175:GLN:HE21	6:y:179:GLU:CD	2.07	0.62
6:y:203:LEU:HD23	6:y:309:MET:O	1.99	0.62
3:z:253:ILE:CD1	4:0:261:ILE:HD11	2.26	0.62
3:z:281:ARG:HD3	3:z:284:THR:HG22	1.80	0.62
4:0:399:VAL:CG2	4:0:427: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
1:I:423:LYS:NZ	1:I:428:TYR:OH	2.30	0.62
3:L:52:SER:C	3:L:53:VAL:HG23	2.22	0.62
4:M:87:PRO:CG	4:M:155:LYS:HE2	2.29	0.62
5:J:86:LEU:HD13	5:J:87:VAL:N	2.14	0.62
5:J:117:ARG:N	5:J:122:THR:O	2.32	0.62
7:N:556:MET:HA	7:N:559:ARG:HD3	1.80	0.62
10:Q:222:GLU:CD	10:Q:225:TRP:HH2	2.07	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
21:j:68:LEU:HD11	21:j:74:CYS:HB3	1.80	0.62
27:p:187:ARG:HG3	27:p:188:PRO:HD3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:204:LEU:O	2:v:204:LEU:HG	1.99	0.62
2:v:275:ASP:O	2:v:276:GLU:HB2	1.99	0.62
2:v:420:TYR:HE1	1:w:350:LYS:HB2	1.64	0.62
1:w:329:MET:HG3	1:w:347:ILE:CD1	2.29	0.62
1:w:349:ARG:HH11	1:w:349:ARG:HG3	1.64	0.62
1:w:408:ARG:C	1:w:410:ARG:H	2.07	0.62
5:x:43:ARG:HA	5:x:46:GLN:HB2	1.81	0.62
5:x:161:ILE:HD12	5:x:199:LEU:HG	1.77	0.62
6:y:105:SER:HB2	6:y:109:SER:OG	1.99	0.62
3:z:171:LEU:HB2	3:z:277:MET:HB2	1.81	0.62
3:z:241:ARG:O	3:z:242:ARG:HB2	1.99	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
8:2:35:HIS:CG	16:AA:14:GLU:CD	2.77	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: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
4:M:78:GLU:HA	4:M:81:LYS:HG3	1.80	0.62
4:M:229:PRO:CA	4:M:333:ASN:HD22	2.12	0.62
4:M:436:GLN:HE22	24:m:53:GLN:HA	1.64	0.62
6:K:60:TYR:O	6:K:63:ASP:HB2	2.00	0.62
6:K:129:SER:O	6:K:143:LEU:N	2.32	0.62
7:N:119:PRO:C	7:N:120:GLU:HG2	2.23	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
2:v:138:MET:O	2:v:140:VAL:HG13	1.99	0.62
2:v:277:ILE:HD12	2:v:278:ASP:H	1.64	0.62
1:w:133:VAL:HB	1:w:158:ALA:HA	1.81	0.62
1:w:173:VAL:CG1	5:x:232:ARG:HG3	2.30	0.62
1:w:203:LEU:CB	1:w:204:PRO:HD3	2.27	0.62
5:x:116:LEU:HD23	5:x:121:TYR:CE1	2.34	0.62
5:x:127:LEU:HD22	6:y:96:VAL:HG21	1.81	0.62
6:y:372:GLY:C	6:y:375:ILE:HD12	2.23	0.62
3:z:320:ILE:HG12	4:0:216:GLY:O	1.99	0.62
3:z:344:ARG:HE	33:z:401:ADP:HO2'	1.40	0.62
7:1:137:MET:O	7:1:141:CYS:N	2.26	0.62
8:2:284:ARG:HH11	8:2:291:LEU:CD2	2.07	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:480:ILE:HD12	12:6:480:ILE:N	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:173:VAL:CG1	5:J:232:ARG:HG3	2.30	0.62
1:I:365:PHE:CE1	1:I:383:LEU:HD12	2.35	0.62
2:H:209:PRO:HG3	4:M:405:MET:HE1	1.82	0.62
2:H:424:SER:C	2:H:426:THR:H	2.08	0.62
3:L:171:LEU:HB2	3:L:277:MET:HB2	1.81	0.62
4:M:246:ALA:CB	4:M:280:PRO:HG2	2.28	0.62
5:J:87:VAL:O	5:J:95:PHE:N	2.29	0.62
5:J:207:THR:CG2	5:J:209:CYS:HB2	2.29	0.62
7:N:171:ASN:O	7:N:172:ASP:CG	2.43	0.62
7:N:654:MET:O	7:N:658:ILE:N	2.30	0.62
16:W:11:ASP:O	16:W:16:MET:CG	2.47	0.62
2:v:174:TYR:HE2	2:v:184:ILE:CG2	2.01	0.62
6:y:93:LEU:CD2	6:y:110:ASN:HD21	2.12	0.62
6:y:154:LEU:O	6:y:155:THR:OG1	2.17	0.62
3:z:65:THR:CG2	3:z:68:LYS:HD2	2.30	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
7:1:171:ASN:O	7:1:172:ASP:CG	2.43	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
1:I:248:LEU:CD1	1:I:274:ALA:HB2	2.30	0.62
1:I:254:GLU:HG2	5:J:275:GLU:HG2	1.80	0.62
1:I:288:ASP:HB3	1:I:331:THR:HG21	1.81	0.62
2:H:88:GLN:O	2:H:92:PRO:HD2	1.94	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
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
5:J:291:VAL:HG22	5:J:291:VAL:O	1.99	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:225:TYR:CZ	11:R:278:VAL:HG13	2.31	0.62
2:v:172:VAL:O	2:v:228:ALA:HA	1.99	0.62
2:v:174:TYR:CE2	2:v:184:ILE:HG21	2.33	0.62
2:v:230:ALA:HB2	2:v:237:PHE:CG	2.34	0.62
5:x:78:ARG:O	5:x:86:LEU:HB3	1.98	0.62
6:y:70:LYS:CD	14:8:182:THR:HG21	2.29	0.62
6:y:80:LYS:CB	15:9:151:VAL:CG2	2.78	0.62
3:z:264:MET:HE1	3:z:277:MET:HE2	1.79	0.62
3:z:317:ALA:O	3:z:318:GLY:C	2.42	0.62
4:0:183:GLU:CD	4:0:235:LEU:HD22	2.25	0.62
4:0:228:PRO:HD2	4:0:354:PHE:O	1.99	0.62
4:0:229:PRO:CA	4:0:333:ASN:HD22	2.12	0.62
7:1:407:SER:HA	7:1:777:HIS:CD2	2.34	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
11:5:228:MET:HE1	11:5:263:LEU:HB2	1.81	0.62
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
1:I:329:MET:HG3	1:I:347:ILE:CD1	2.29	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
3:L:370:ALA:O	3:L:374:VAL:N	2.24	0.62
6:K:152:MET:O	6:K:153:MET:HB3	1.99	0.62
6:K:215:LEU:O	6:K:219:VAL:HG23	2.00	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
10:Q:76:PHE:O	10:Q:80:ILE:O	2.17	0.62
25:X:3:ILE:HG22	25:X:5:THR:OG1	2.00	0.62
2:v:353:HIS:O	2:v:357:ILE:HD12	1.99	0.62
5:x:134:LEU:H	5:x:237:MET:HE1	1.63	0.62
5:x:325:ARG:O	5:x:329:LEU:N	2.21	0.62
5:x:339:THR:HG23	11:5:206:SER:O	1.99	0.62
6:y:83:GLN:HG2	6:y:140:VAL:CG1	2.29	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
4:0:395: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: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:J:134:LEU:H	5:J:237:MET:HE1	1.63	0.62
5:J:154:LEU:O	5:J:158:ILE:CD1	2.47	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: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:96:LEU:HD22	15:V:100:LYS:HZ2	1.64	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
31:t:28:ARG:NE	31:t:191:ASP:OD2	2.29	0.62
1:w:203:LEU:HB3	1:w:204:PRO:CD	2.30	0.62
1:w:231:GLY:C	1:w:353:PHE:CE2	2.78	0.62
1:w:424:GLU:HG2	1:w:428:TYR:CZ	2.32	0.62
6:y:60:TYR:O	6:y:63:ASP:HB2	2.00	0.62
6:y:152:MET:O	6:y:153:MET:CB	2.47	0.62
6:y:348:ILE:CB	6:y:379:CYS:SG	2.87	0.62
3:z:253:ILE:CG1	4:0:308:ARG:HH12	2.13	0.62
3:z:344:ARG:NH2	33:z:401:ADP:O2'	2.31	0.62
4:0:376:SER:CB	4:0:377:PRO:CD	2.71	0.62
8:2:63:PHE:O	8:2:66:GLU:HB2	1.99	0.62
9:3:190:MET:C	9:3:193:CYS:HG	1.95	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
14:8:60:GLU:HB3	14:8:65:ASP:CG	2.24	0.62
14:8:92:VAL:HA	14:8:116:CYS:SG	2.40	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
2:H:346:PRO:HG3	2:H:354:ILE:HD11	1.81	0.62
3:L:60:VAL:O	3:L:95:GLY:N	2.31	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
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
6:K:94:GLU:O	6:K:101:ALA:HB1	2.00	0.62
6:K:372:GLY:O	33:K:501:ADP:C8	2.51	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
2:v:327:LEU:HD12	2:v:331:LEU:HD12	1.82	0.62
3:z:87:LEU:O	3:z:88:ASP:CB	2.48	0.62
3:z:234:GLU:OE1	4:0:315:ASN:HB2	2.00	0.62
3:z:316:HIS:CE1	33:z:401:ADP:N3	2.68	0.62
7:1:162:VAL:C	7:1:164:GLU:H	2.08	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
9:3:432:LEU:HD22	15:9:309:PHE:HD2	1.62	0.62
11:5:17:LEU:O	11:5:20:ALA:N	2.32	0.62
11:5:71:ASN:HB3	11:5:75:LYS:HZ2	1.63	0.62
12:6:434:ALA:O	12:6:437:ILE:N	2.33	0.62
14:8:98:GLY:O	14:8:99:PRO:C	2.43	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
1:I:152:LEU:HA	1:I:158:ALA:O	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
3:L:126:ASP:CG	3:L:197:LYS:CD	2.48	0.62
3:L:234:GLU:OE1	4:M:315:ASN:HB2	2.00	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
5:J:167:LEU:HD21	5:J:174:LEU:CD1	2.30	0.62
6:K:166:ASP:OD2	6:K:214:MET:CE	2.48	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:403:TYR:CA	6:K:407:ILE:CD1	2.78	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
19:B:201:CYS:O	19:B:205:VAL:HG12	2.00	0.62
27:p:113:ILE:HG12	27:p:119:THR:HG22	1.81	0.62
30:s:38:ASN:HB2	30:s:41:LEU:HB2	1.82	0.62
2:v:191:VAL:HG13	2:v:271:LEU:CD2	2.29	0.62
2:v:271:LEU:HD23	2:v:316:LYS:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:167:LEU:HD21	5:x:174:LEU:CD1	2.30	0.62
5:x:247:PHE:HD1	5:x:292:ILE:CG2	2.12	0.62
5:x:356:GLY:HA3	33:x:501:ADP:C8	2.34	0.62
6:y:129:SER:O	6:y:143:LEU:N	2.32	0.62
6:y:188:PHE:HD2	6:y:304:ASN:HD21	1.47	0.62
6:y:283:ARG:O	6:y:287:ARG:HD2	1.99	0.62
3:z:122:MET:CE	3:z:218:MET:SD	2.88	0.62
3:z:185:ARG:HG3	4:0:320:PHE:CE1	2.35	0.62
3:z:197:LYS:HA	3:z:231:PHE:O	2.00	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
7:1:35:TRP:CZ2	12:6:273:LYS:HE2	2.34	0.62
8:2:60:TYR:O	8:2:65:SER:N	2.33	0.62
10:4:85:ALA:O	10:4:89:VAL:CG2	2.47	0.62
11:5:229:ILE:CG1	11:5:295:TYR:OH	2.48	0.62
11:5:286:TRP:CE2	11:5:287:LEU:HD22	2.35	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
1:I:231:GLY:C	1:I:353:PHE:CE2	2.78	0.62
1:I:398:ILE:O	1:I:419:PHE:CE1	2.53	0.62
2:H:353:HIS:O	2:H:357:ILE:HD12	1.99	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
6:K:121:ARG:O	6:K:122:GLU:C	2.41	0.62
6:K:345:PHE:CE1	6:K:375:ILE:HG23	2.35	0.62
6:K:354:LEU:CA	6:K:393:ILE:CG2	2.67	0.62
6:K:372:GLY:C	6:K:375:ILE:HD12	2.23	0.62
7:N:162:VAL:C	7:N:164:GLU:H	2.08	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:53:LEU:O	10:Q:57:LEU:N	2.28	0.62
10:Q:212:MET:HE3	10:Q:250:SER:HB2	1.80	0.62
10:Q:296:ASN:OD1	10:Q:296:ASN:N	2.33	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:f:137:ALA:H	31:f:146:GLN:HE21	1.47	0.62
19:h:208:ILE:O	19:h:209:ASP:OD2	2.18	0.62
22:k:209:ALA:HB1	22:k:217:LEU:HD11	1.81	0.62
2:v:142:VAL:O	2:v:143:ASP:C	2.41	0.62
2:v:368:ILE:CD1	2:v:409:PHE:CD2	2.83	0.62
2:v:413:VAL:HG13	2:v:417:ILE:CD1	2.28	0.62
1:w:217:LYS:HB3	1:w:218:PRO:HD3	1.81	0.62
1:w:252:GLY:O	1:w:255:LEU:HB2	2.00	0.62
1:w:287:ILE:HD12	1:w:287:ILE:N	2.14	0.62
5:x:133:PRO:O	5:x:136:SER:OG	2.12	0.62
6:y:205:TYR:HE1	6:y:332:GLU:CA	2.12	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
1:I:287:ILE:HD12	1:I:287:ILE:N	2.14	0.61
1:I:379:THR:O	1:I:381:ASP:N	2.32	0.61
3:L:185:ARG:HG3	4:M:320:PHE:CE1	2.35	0.61
3:L:198:VAL:O	3:L:232:MET:HA	2.00	0.61
3:L:198:VAL:HG12	3:L:203:ILE:HD11	1.74	0.61
5:J:46:GLN:CG	6:K:61:ILE:HG21	2.30	0.61
5:J:339:THR:HG23	11:R:206:SER:O	1.99	0.61
6:K:98:GLN:O	6:K:99:ASN:ND2	2.33	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
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:85:ALA:O	10:Q:89:VAL:N	2.27	0.61
10:Q:337:ARG:HG2	10:Q:340:GLU:OE1	2.00	0.61
11:R:267:ARG:O	11:R:270:VAL:HG13	1.99	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
13:T:325:PRO:C	13:T:327:ASP:H	2.08	0.61
30:e:38:ASN:HB2	30:e:41:LEU:HB2	1.82	0.61
1:w:248:LEU:CD1	1:w:274:ALA:HB2	2.30	0.61
1:w:271:PHE:HB3	1:w:315:GLN:NE2	2.15	0.61
1:w:398:ILE:O	1:w:419:PHE:CE1	2.53	0.61
5:x:134:LEU:HB2	5:x:237:MET:SD	2.40	0.61
5:x:154:LEU:O	5:x:158:ILE:CD1	2.47	0.61
5:x:273:MET:SD	5:x:305:LEU:HD21	2.40	0.61
5:x:338:LEU:HD22	5:x:342:ILE:HD13	1.79	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:L:65:THR:CG2	3:L:68:LYS:HD2	2.30	0.61
3:L:350:ALA:HB2	3:L:366:ASP:O	2.00	0.61
4:M:253:GLY:N	4:M:254:PRO:CD	2.63	0.61
5:J:134:LEU:HB2	5:J:237:MET:SD	2.40	0.61
6:K:80:LYS:CB	15:V:151:VAL:CG2	2.78	0.61
6:K:92:PHE:CE2	6:K:124:LEU:HG	2.36	0.61
6:K:310:ALA:C	6:K:311:THR:HG23	2.25	0.61
7:N:414:GLY:N	7:N:449:ILE:HG23	2.15	0.61
8:O:274:LEU:HD23	8:O:275:LEU:CA	2.29	0.61
10:Q:397:TYR:CD2	11:R:365:GLN:OE1	2.52	0.61
11:R:183:TYR:CD1	11:R:213:LEU:HD21	2.35	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
19:B:202:LEU:O	19:B:205:VAL:CG1	2.48	0.61
23:F:98:ASN:OD1	30:e:61:ARG:NE	2.33	0.61
19:h:103:TYR:O	27:p:81:ARG:NH1	2.32	0.61
24:m:239:ARG:H	24:m:239:ARG:HH11	1.48	0.61
1:w:187:ILE:CD1	1:w:194:ILE:HD12	2.25	0.61
1:w:263:GLY:N	1:w:264:PRO:HD2	2.15	0.61
1:w:290:ILE:HD12	1:w:309:MET:HE3	1.80	0.61
1:w:315:GLN:HE22	1:w:322:ARG:NH2	1.92	0.61
5:x:46:GLN:CG	6:y:61:ILE:HG21	2.30	0.61
5:x:219:LEU:CD2	6:y:286:GLN:HG2	2.28	0.61
5:x:232:ARG:HE	5:x:279:GLN:CD	2.06	0.61
3:z:61:LEU:HD13	3:z:78:ARG:HD3	1.81	0.61
3:z:334:LEU:HD21	3:z:372:ARG:HH11	1.65	0.61
4:0:87:PRO:CG	4:0:155:LYS:HE2	2.29	0.61
4:0:89:LEU:HD13	4:0:128:THR:HG23	1.80	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:OD1	10:4:296:ASN:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:74:TYR:CD1	15:9:101:GLN:OE1	2.54	0.61
1:I:203:LEU:CB	1:I:204:PRO:HD3	2.27	0.61
2:H:368:ILE:CD1	2:H:409:PHE:CD2	2.83	0.61
3:L:253:ILE:CG1	4:M:308:ARG:HH12	2.13	0.61
3:L:316:HIS:CE1	33:L:401:ADP:N3	2.68	0.61
5:J:66:LEU:O	6:K:136:SER:CB	2.47	0.61
5:J:127:LEU:HD22	6:K:96:VAL:HG21	1.81	0.61
5:J:151:ILE:HD13	5:J:198:LEU:CB	2.29	0.61
6:K:283:ARG:O	6:K:287:ARG:HD2	1.99	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: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
30:e:166:ARG:NH1	29:r:140:LEU:HD13	2.14	0.61
24:m:167:SER:HB3	24:m:197:GLU:HG2	1.82	0.61
1:w:407:LEU:HD11	5:x:175:PHE:CD1	2.35	0.61
3:z:223:ARG:O	3:z:226:GLN:CG	2.47	0.61
3:z:372:ARG:O	3:z:376:ASP:N	2.34	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
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
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
1:I:339:PRO:CG	2:H:425:ALA:HB2	2.30	0.61
2:H:296:GLN:O	2:H:299:MET:HB3	2.01	0.61
4:M:284:PHE:CD1	4:M:285:ILE:N	2.66	0.61
5:J:39:SER:HB2	6:K:54:LEU:HD13	1.81	0.61
5:J:130:LYS:O	5:J:131:VAL:CB	2.48	0.61
6:K:71:GLU:OE2	6:K:74:HIS:CD2	2.54	0.61
6:K:176:GLU:O	6:K:180:ALA:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:23:PHE:CE1	14:U:28:LYS:O	2.43	0.61
14:U:212:LEU:O	14:U:215:VAL:HB	2.00	0.61
15:V:64:ASP:C	15:V:139:ARG:HH12	2.08	0.61
15:V:251:LEU:HD13	15:V:283:HIS:CB	2.29	0.61
24:G:225:ASP:N	24:G:225:ASP:OD1	2.33	0.61
26:a:166:ARG:NH2	32:u:37:ARG:HH11	1.98	0.61
29:d:4:LEU:HD22	29:d:45:LEU:HD12	1.81	0.61
2:v:394:MET:O	2:v:398:ARG:N	2.30	0.61
5:x:137:LEU:CD2	5:x:224:ILE:HD13	2.12	0.61
6:y:98:GLN:O	6:y:99:ASN:ND2	2.33	0.61
6:y:215:LEU:O	6:y:219:VAL:HG23	2.00	0.61
6:y:310:ALA:C	6:y:311:THR:HG23	2.25	0.61
6:y:348:ILE:CG2	6:y:379:CYS:CB	2.78	0.61
3:z:356:ARG:CG	3:z:356:ARG:HH11	2.14	0.61
11:5:183:TYR:CD1	11:5:213:LEU:HD21	2.35	0.61
11:5:191:ILE:C	11:5:291:HIS:HE1	2.09	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
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
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
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
29:r:4:LEU:HD22	29:r:45:LEU:HD12	1.82	0.61
2:v:204:LEU:CD2	2:v:206:ILE:CG2	2.78	0.61
2:v:209:PRO:HG3	4:0:405:MET:HE1	1.82	0.61
1:w:231:GLY:O	1:w:353:PHE:HE2	1.83	0.61
1:w:369:THR:HB	1:w:374:LEU:HD12	1.73	0.61
5:x:130:LYS:O	5:x:131:VAL:CB	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:321:ASN:O	5:x:325:ARG:CG	2.46	0.61
6:y:92:PHE:CE2	6:y:124:LEU:HG	2.36	0.61
3:z:156:PRO:HA	3:z:159:PHE:CD2	2.35	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
1:I:407:LEU:HD11	5:J:175:PHE:CD1	2.35	0.61
4:M:183:GLU:CD	4:M:235:LEU:HD22	2.25	0.61
7:N:711:GLN:O	7:N:715:LYS:N	2.17	0.61
10:Q:84:LYS:HZ1	10:Q:88:LEU:HD21	1.64	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
11:R:127:THR:O	11:R:131:THR:CG2	2.34	0.61
13:T:259:PHE:HA	13:T:262:ILE:HD12	1.81	0.61
22:E:80:ALA:HA	22:E:129:ILE:HD13	1.81	0.61
25:X:174:THR:HG22	3:z:372:ARG:HH21	1.64	0.61
1:w:153:ASN:O	1:w:157:HIS:HA	2.00	0.61
6:y:106:THR:C	3:z:77:PRO:HB3	2.26	0.61
8:2:213:PHE:HE2	8:2:240:PHE:CG	2.17	0.61
10:4:85:ALA:O	10:4:89:VAL:N	2.27	0.61
10:4:260:MET:CE	10:4:325:LYS:CB	2.78	0.61
10:4:332:GLU:OE2	10:4:368:MET:SD	2.59	0.61
10:4:337:ARG:HG2	10:4:340:GLU:OE1	2.00	0.61
11:5:128:TYR:HA	11:5:131:THR:HG21	1.83	0.61
11:5:362:LYS:HA	11:5:362:LYS:CE	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
1:I:249:ARG:NH2	5:J:278:ASN:CB	2.63	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
2:H:191:VAL:CG1	2:H:271:LEU:HD11	2.31	0.61
3:L:253:ILE:CD1	4:M:261:ILE:HD11	2.26	0.61
3:L:356:ARG:CG	3:L:356:ARG:HH11	2.14	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
5:J:43:ARG:HA	5:J:46:GLN:HB2	1.81	0.61
5:J:193:GLY:O	5:J:355:SER:CB	2.49	0.61
6:K:93:LEU:CD2	6:K:110:ASN:HD21	2.12	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:377:HIS:HB2	7:N:411:ILE:HG12	1.82	0.61
8:O:360:VAL:O	8:O:361:LYS:C	2.41	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
14:U:61:ASP:H	14:U:65:ASP:CG	2.09	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
27:b:163:ILE:HG23	27:b:170:GLY:HA2	1.83	0.61
27:p:163:ILE:HG23	27:p:170:GLY:HA2	1.82	0.61
2:v:111:TYR:HE1	2:v:125:LEU:CD2	2.01	0.61
6:y:94:GLU:O	6:y:101:ALA:HB1	2.00	0.61
6:y:175:GLN:NE2	6:y:179:GLU:OE2	2.33	0.61
3:z:198:VAL:O	3:z:232:MET:HA	2.00	0.61
4:0:188:ILE:O	4:0:368: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
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
2:H:346:PRO:HG3	2:H:354:ILE:CD1	2.30	0.61
3:L:87:LEU:O	3:L:88:ASP:CB	2.48	0.61
3:L:241:ARG:O	3:L:242:ARG:HB2	1.99	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
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
19:B:141:ILE:HG22	19:B:151:VAL:HG22	1.82	0.61
27:b:32:SER:CB	27:b:187:ARG:NH2	2.63	0.61
27:b:113:ILE:HG12	27:b:119:THR:HG22	1.81	0.61
20:i:198:PHE:HD2	20:i:202:MET:CB	2.14	0.61
24:m:104:PRO:HB3	32:u:81:HIS:HD2	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:s:20:ALA:HB2	30:s:31:VAL:HG21	1.82	0.61
2:v:425:ALA:HB2	1:w:339:PRO:CG	2.30	0.61
1:w:390:LEU:CD1	1:w:395:ILE:HD11	2.31	0.61
5:x:54:ALA:O	5:x:58:LEU:HB2	2.01	0.61
5:x:335:LYS:CA	11:5:173:ASP:CB	2.73	0.61
5:x:392:GLN:O	5:x:396:GLU:HB2	2.01	0.61
6:y:95:ALA:HB1	6:y:100:THR:O	2.01	0.61
6:y:167:ILE:HD13	6:y:218:ALA:CB	2.28	0.61
6:y:259:PRO:HA	6:y:304:ASN:O	2.01	0.61
6:y:345:PHE:CE1	6:y:375:ILE:HG23	2.35	0.61
3:z:355:ILE:HD11	4:0:212:PHE:HA	1.83	0.61
4:0:293:THR:HG23	4:0:337: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
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
2:H:204:LEU:CD2	2:H:206:ILE:CG2	2.78	0.61
3:L:197:LYS:HA	3:L:231:PHE:O	2.00	0.61
3:L:201:SER:HB2	4:M:312:GLU:OE1	1.98	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
4:M:272:PHE:HE2	4:M:316:GLN:CB	2.08	0.61
5:J:335:LYS:CA	11:R:173:ASP:CB	2.73	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
10:Q:239:TYR:C	10:Q:247:ALA:HB2	2.26	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
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
18:Z:484:GLY:O	18:Z:488:ALA:N	2.31	0.61
30:s:38:ASN:ND2	30:s:40:TYR:CZ	2.66	0.61
1:w:152:LEU:HA	1:w:158:ALA:O	2.00	0.61
1:w:290:ILE:O	1:w:290:ILE:HG12	2.01	0.61
1:w:414:VAL:CG1	1:w:418:ASP:CB	2.78	0.61
6:y:122:GLU:HB3	15:9:278:GLN:HB3	1.83	0.61
6:y:152:MET:O	6:y:153:MET:HB3	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:166:ASP:OD2	6:y:214:MET:CE	2.48	0.61
6:y:170:MET:O	6:y:174:LYS:CD	2.48	0.61
6:y:302:ASN:N	6:y:302:ASN:HD22	1.99	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
1:I:285:ASP:O	1:I:286:GLU:HB2	2.01	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
6:K:53:PHE:O	6:K:57:GLN:CD	2.44	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
10:Q:218:HIS:CD2	10:Q:227:THR:HG22	2.35	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
22:E:38:ARG:NE	22:E:181:ILE:O	2.30	0.61
1:w:197:ILE:HG12	1:w:235:LEU:CD1	2.31	0.61
5:x:291:VAL:HG22	5:x:291:VAL:O	1.99	0.61
6:y:149:SER:HB2	6:y:250:VAL:CG2	2.25	0.61
6:y:263:PHE:CE1	6:y:265:ASP:HB2	2.33	0.61
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
14:8:61:ASP:H	14:8:65:ASP:CG	2.09	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
1:I:357:ASP:CG	1:I:358:GLU:H	2.08	0.60
2:H:183:GLN:N	2:H:183:GLN:OE1	2.34	0.60
2:H:195:LEU:HD13	2:H:235:ALA:HB2	1.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:399:VAL:CG2	4:M:427:VAL:CG2	2.78	0.60
4:M:438:TYR:OH	23:l:20:ARG:HA	2.00	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
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
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
2:v:125:LEU:HB2	2:v:149:ILE:HB	1.82	0.60
2:v:245:LEU:O	2:v:247:GLN:NE2	2.34	0.60
1:w:251:VAL:HB	1:w:254:GLU:HG3	1.82	0.60
1:w:357:ASP:CG	1:w:358:GLU:H	2.08	0.60
6:y:109:SER:CB	6:y:111:TYR:CE2	2.84	0.60
3:z:253:ILE:HG13	4:0:308:ARG:NH1	2.16	0.60
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
10:4:239:TYR:C	10:4:247:ALA:HB2	2.26	0.60
13:7:270:GLU:O	13:7:274:CYS:N	2.26	0.60
1:I:107:MET:HE1	1:I:151:LEU:CB	2.31	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
1:I:249:ARG:HH21	5:J:278:ASN:HB2	1.63	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
4:M:232:GLY:HA3	33:M:501:ADP:N7	2.16	0.60
4:M:265:ALA:CB	4:M:312:GLU:HG2	2.31	0.60
4:M:292:GLY:O	4:M:293:THR:OG1	2.17	0.60
5:J:373:GLU:CG	5:J:375:ARG:HD2	2.25	0.60
6:K:259:PRO:HA	6:K:304:ASN:O	2.01	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
11:R:234:PRO:HD2	11:R:235:ASP:N	2.14	0.60
11:R:256:VAL:HG13	11:R:257:ARG:N	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
20:C:198:PHE:CE1	20:C:206:ASN:HB3	2.34	0.60
27:b:174:ASP:CG	27:b:187:ARG:HG2	2.26	0.60
20:i:198:PHE:CD2	20:i:202:MET:HB2	2.32	0.60
2:v:244:GLU:HA	1:w:268:ARG:HH22	1.67	0.60
1:w:194:ILE:O	1:w:197:ILE:HG22	2.01	0.60
1:w:290:ILE:HD13	1:w:309:MET:CG	2.31	0.60
5:x:72:TYR:CE2	5:x:121:TYR:CZ	2.88	0.60
5:x:193:GLY:O	5:x:355:SER:CB	2.49	0.60
6:y:53:PHE:O	6:y:57:GLN:CD	2.44	0.60
3:z:181:THR:HG21	4:0:319:GLY:CA	2.29	0.60
3:z:205:ASP:O	3:z:206:LYS:HB3	2.02	0.60
3:z:216:ARG:NE	3:z:259:GLU:OE1	2.34	0.60
3:z:350:ALA:HB2	3:z:366:ASP:O	2.00	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
7:1:667:GLU:CG	7:1:668:ALA:N	2.63	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
1:I:288:ASP:H	1:I:331:THR:HG23	1.67	0.60
2:H:272:ILE:HD12	2:H:315:ILE:HG22	1.83	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
5:J:54:ALA:O	5:J:58:LEU:HB2	2.01	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
6:K:188:PHE:HD2	6:K:304:ASN:HD21	1.47	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
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
26:a:25:TYR:CZ	27:b:132:LEU:HD22	2.37	0.60
32:g:50:MET:HE2	32:g:192:VAL:HG22	1.84	0.60
30:s:83:LEU:HD11	30:s:97:MET:HE1	1.82	0.60
4:0:232:GLY:HA3	33:0:501:ADP:N7	2.16	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
9:3:449:GLU:O	9:3:453:HIS:N	2.32	0.60
10:4:222:GLU:CD	10:4:225:TRP:HH2	2.07	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
13:7:325:PRO:C	13:7:327:ASP:H	2.08	0.60
16:AA:4:GLU:HB2	16:AA:106:LYS:O	2.00	0.60
1:I:231:GLY:O	1:I:353:PHE:HE2	1.83	0.60
1:I:232:LYS:HZ1	1:I:332:ASN:HD22	1.44	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
3:L:321:THR:HG1	3:L:361:PHE:HA	1.64	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
7:N:402:PHE:CB	7:N:437:TYR:HB3	2.20	0.60
11:R:131:THR:C	11:R:132:VAL:HG23	2.26	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
20:C:132:SER:CB	20:C:162:MET:HE2	2.31	0.60
19:h:132:ARG:HG2	25:n:12:SER:HA	1.81	0.60
31:t:137:ALA:H	31:t:146:GLN:HE21	1.47	0.60
2:v:195:LEU:HD13	2:v:235:ALA:HB2	1.83	0.60
2:v:296:GLN:O	2:v:299:MET:HB3	2.01	0.60
1:w:106:PRO:HD3	5:x:120:SER:O	2.01	0.60
1:w:183:THR:HG23	1:w:241:ASN:ND2	2.16	0.60
5:x:127:LEU:CD1	6:y:102:ILE:HD11	2.31	0.60
5:x:287:LYS:O	5:x:288:ASN:CB	2.50	0.60
3:z:241:ARG:NH1	4:0:299:GLU:OE2	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
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
2:H:90:GLU:C	2:H:93:LEU:HB2	2.25	0.60
2:H:157:ILE:CG2	2:H:263:MET:CG	2.78	0.60
3:L:145:LEU:HD11	3:L:149:ILE:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:141:ASP:O	4:M:144:LYS:HB2	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
6:K:152:MET:O	6:K:153:MET:CB	2.47	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
11:R:362:LYS:HE2	11:R:362:LYS:CA	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
2:v:191:VAL:CG1	2:v:271:LEU:HD11	2.31	0.60
2:v:424:SER:C	2:v:426:THR:H	2.08	0.60
1:w:373:THR:HG21	1:w:413:LYS:HE2	1.83	0.60
5:x:377:HIS:HE2	11:5:206:SER:CB	2.05	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
18:AC:598:CYS:O	18:AC:599:ALA:HB2	2.01	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
2:H:421:ALA:O	2:H:424:SER:OG	2.11	0.60
3:L:151:LEU:N	3:L:152:PRO:CD	2.65	0.60
3:L:153:LEU:C	3:L:156:PRO:HD3	2.27	0.60
3:L:241:ARG:NH1	4:M:299:GLU:OE2	2.34	0.60
3:L:322:LYS:HZ2	3:L:326:ILE:CD1	2.13	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
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
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
13:T:198:PHE:O	13:T:201:SER:OG	2.15	0.60
19:B:103:TYR:CE1	27:b:85:GLN:NE2	2.69	0.60
32:u:9:THR:O	32:u:41:ARG:NH2	2.35	0.60
2:v:402:LYS:HG3	2:v:403:ILE:N	2.16	0.60
1:w:187:ILE:HD11	1:w:194:ILE:HD12	1.84	0.60
1:w:271:PHE:CB	1:w:315:GLN:HE22	2.12	0.60
5:x:118:ASN:O	5:x:121:TYR:CD1	2.54	0.60
5:x:298:ILE:O	5:x:301:LEU:HG	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:71:GLU:OE2	6:y:74:HIS:CD2	2.54	0.60
6:y:121:ARG:C	6:y:123:LEU:N	2.55	0.60
6:y:205:TYR:OH	6:y:332:GLU:HG2	2.01	0.60
6:y:258:ALA:HB1	6:y:259:PRO:HD3	1.83	0.60
6:y:359:ASP:C	6:y:361:GLU:N	2.50	0.60
6:y:403:TYR:CA	6:y:407:ILE:CD1	2.78	0.60
10:4:53:LEU:O	10:4:57:LEU:N	2.28	0.60
10:4:360:ASP:HA	10:4:363:ARG:CB	2.31	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:54:LEU:C	16:AA:85:THR:CB	2.75	0.60
16:AA:128:ALA:HA	16:AA:131:LEU:HD12	1.84	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
2:H:83:ASP:O	2:H:86:THR:N	2.35	0.60
2:H:245:LEU:O	2:H:247:GLN:NE2	2.34	0.60
3:L:77:PRO:HB3	6:K:106:THR:C	2.26	0.60
3:L:145:LEU:HD12	3:L:299:ILE:HD11	1.84	0.60
6:K:276:ASP:O	6:K:282:ASP:HB2	2.02	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
12:S:476:PHE:C	12:S:480:ILE:CD1	2.70	0.60
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
23:l:31:ILE:HD13	23:l:140:ALA:HB2	1.84	0.60
2:v:103:ASN:O	2:v:112:ILE:HB	2.00	0.60
2:v:393:GLY:O	1:w:214:MET:HE1	2.02	0.60
1:w:118:ASP:CB	1:w:120:HIS:CD2	2.84	0.60
1:w:184:TYR:CD1	1:w:238:ALA:HB1	2.36	0.60
1:w:249:ARG:NH2	5:x:278:ASN:CB	2.63	0.60
1:w:288:ASP:H	1:w:331:THR:HG23	1.67	0.60
5:x:117:ARG:N	5:x:122:THR:O	2.32	0.60
6:y:176:GLU:OE2	6:y:329:ARG:CD	2.45	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:22:HIS:HD2	14:8:35:VAL:HG11	1.32	0.60
14:8:61:ASP:N	14:8:65:ASP:CG	2.60	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
1:I:290:ILE:O	1:I:290:ILE:HG12	2.01	0.60
2:H:210:LYS:O	2:H:316:LYS:HA	2.02	0.60
2:H:330:ALA:C	2:H:336:ARG:HH11	2.10	0.60
3:L:126:ASP:CG	3:L:197:LYS:HZ2	2.05	0.60
4:M:188:ILE:O	4:M:368:ILE:CD1	2.48	0.60
6:K:391:ARG:NH1	6:K:395:LEU:CG	2.53	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:43:TRP:HA	14:U:48:LEU:HD21	1.80	0.60
14:U:252:LYS:HA	14:U:252:LYS:HE3	1.84	0.60
16:W:2:VAL:O	16:W:47:ASN:ND2	2.28	0.60
16:W:113:VAL:N	16:W:141:ILE:O	2.32	0.60
2:v:83:ASP:O	2:v:86:THR:N	2.35	0.60
2:v:299:MET:CE	2:v:328:ASP:HB3	2.23	0.60
2:v:373:LEU:HD21	2:v:410:LEU:HD23	1.83	0.60
1:w:307:ARG:O	1:w:311:GLU:N	2.26	0.60
5:x:162:LYS:CE	5:x:166:GLU:OE1	2.50	0.60
5:x:164:VAL:HG13	5:x:165:ILE:HG13	1.82	0.60
5:x:164:VAL:O	5:x:168:PRO:HG2	2.02	0.60
6:y:92:PHE:CE2	6:y:124:LEU:HD23	2.37	0.60
6:y:176:GLU:O	6:y:180:ALA:N	2.33	0.60
6:y:276:ASP:O	6:y:282:ASP:HB2	2.02	0.60
6:y:296:MET:HE2	6:y:326:ARG:O	2.01	0.60
3:z:50:LEU:HD22	4:0:82:VAL:HG11	1.84	0.60
3:z:61:LEU:HD13	3:z:78:ARG:CD	2.32	0.60
3:z:353:PHE:HA	3:z:356:ARG:CB	2.30	0.60
10:4:28:HIS:O	10:4:32:LYS:N	2.35	0.60
10:4:134:VAL:HG22	10:4:149:LEU:CD2	2.30	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
15:9:64:ASP:C	15:9:139:ARG:HH12	2.08	0.60
1:I:232:LYS:HZ2	1:I:332:ASN:ND2	2.00	0.60
4:M:90:VAL:HG12	4:M:164:LEU:CD1	2.32	0.60
5:J:160:GLU:HB2	5:J:315:ILE:CD1	2.09	0.60
13:T:173:CYS:O	13:T:177:ASP:CG	2.45	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:V:225:TRP:C	15:V:227:GLU:N	2.60	0.60
24:G:166:GLN:NE2	4:0:383:GLU:HA	2.17	0.60
24:G:225:ASP:O	24:G:226:ASP:HB2	2.00	0.60
32:g:37:ARG:HH11	26:o:166:ARG:NH2	1.99	0.60
25:n:227:VAL:O	25:n:232:ARG:NH1	2.35	0.60
2:v:183:GLN:N	2:v:183:GLN:OE1	2.34	0.60
1:w:175:LYS:CE	1:w:277:HIS:CE1	2.84	0.60
5:x:274:LEU:CD2	5:x:305:LEU:HD12	2.32	0.60
5:x:371:LEU:HD13	6:y:196:ILE:CD1	2.32	0.60
6:y:205:TYR:CD2	6:y:314:ALA:HB2	2.35	0.60
4:0:137:ILE:CG2	4:0:140:VAL:HG23	2.23	0.60
4:0:399:VAL:CG2	4:0:427:VAL:CG2	2.78	0.60
4:0:399:VAL:HG23	4:0:427:VAL:CB	2.32	0.60
11:5:19:ILE:HD13	11:5:50:MET:HE1	1.82	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
2:H:386:ARG:HD2	2:H:386:ARG:C	2.27	0.60
2:H:413:VAL:HG13	2:H:417:ILE:CD1	2.28	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
5:J:164:VAL:O	5:J:168:PRO:HG2	2.02	0.60
5:J:195:GLY:CA	33:J:501:ADP:C8	2.85	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
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
7:N:35:TRP:HZ3	12:S:273:LYS:HD2	1.61	0.60
7:N:45:ILE:HA	7:N:48:LEU:HD12	1.84	0.60
11:R:191:ILE:C	11:R:291:HIS:HE1	2.09	0.60
12:S:338:LEU:HD12	12:S:398:LEU:HD21	1.84	0.60
14:U:67:VAL:CG1	16:W:88:THR:HG23	2.32	0.60
15:V:257:LYS:HA	15:V:260:GLU:HG2	1.82	0.60
20:C:39:ALA:O	20:C:41:ASN:N	2.35	0.60
24:G:104:PRO:HB3	32:g:81:HIS:HD2	1.66	0.60
1:w:183:THR:CA	1:w:241:ASN:HD22	2.14	0.60
5:x:189:TYR:CE2	5:x:316:GLU:HB3	2.32	0.60
5:x:207:THR:HG22	5:x:209:CYS:H	1.67	0.60
6:y:225:ALA:HB2	6:y:259:PRO:O	1.98	0.60
6:y:299:PHE:HD1	6:y:303:VAL:HG21	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:145:LEU:HD12	3:z:299:ILE:HD11	1.84	0.60
3:z:369:LYS:O	3:z:373:LYS:HB2	2.01	0.60
4:0:141:ASP:O	4:0:144:LYS:HB2	2.01	0.60
7:1:7:GLY:CA	13:7:170:GLN:HG2	2.21	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
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
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
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
10:Q:276:ALA:C	10:Q:278:ARG:H	2.08	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
14:U:61:ASP:N	14:U:65:ASP:CG	2.60	0.59
14:U:98:GLY:O	14:U:99:PRO:C	2.43	0.59
15:V:267:PRO:O	15:V:270:LEU:HB3	2.02	0.59
18:Z:776:LEU:HA	18:Z:827:PRO:HA	1.83	0.59
24:m:159:MET:CE	24:m:169:ARG:NH2	2.65	0.59
26:o:25:TYR:CZ	27:p:132:LEU:HD22	2.37	0.59
27:p:190:THR:HG22	27:p:192:PRO:HD3	1.84	0.59
2:v:87:LEU:CD2	1:w:136:LEU:CD2	2.63	0.59
2:v:196:LEU:O	2:v:198:PRO:CD	2.49	0.59
2:v:204:LEU:CD2	2:v:206:ILE:HG21	2.32	0.59
2:v:210:LYS:O	2:v:316:LYS:HA	2.02	0.59
1:w:218:PRO:HG3	1:w:326:LYS:HZ1	1.67	0.59
5:x:232:ARG:HG3	5:x:232:ARG:NH1	2.17	0.59
5:x:235:PHE:CZ	5:x:280:LEU:HD21	2.37	0.59
6:y:210:CYS:HG	6:y:335:LEU:CA	2.15	0.59
6:y:214:MET:HG3	33:y:501:ADP:H3'	1.84	0.59
6:y:268:ASP:OD1	6:y:272:THR:HG22	2.02	0.59
3:z:61:LEU:CD1	3:z:78:ARG:NE	2.65	0.59
3:z:201:SER:O	3:z:204:VAL:HG22	2.02	0.59
3:z:226:GLN:CB	3:z:273:VAL:CG2	2.54	0.59
4:0:284:PHE:CD1	4:0:285: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

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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	0.59
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: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:214:MET:HE1	2:H:393:GLY:O	2.02	0.59
1:I:232:LYS:CA	1:I:353:PHE:HE2	2.05	0.59
2:H:368:ILE:HD11	2:H:409:PHE:CE2	2.37	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
9:P:401:THR:C	9:P:402:ILE:HG23	2.27	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:54:LEU:C	16:W:85:THR:CB	2.75	0.59
16:W:128:ALA:HA	16:W:131:LEU:HD12	1.84	0.59
18:Z:883:ALA:O	18:Z:895:GLU:HA	2.03	0.59
19:B:171:LYS:HG3	19:B:205:VAL:HG22	1.83	0.59
20:i:39:ALA:O	20:i:41:ASN:N	2.34	0.59
22:k:38:ARG:NE	22:k:181:ILE:O	2.31	0.59
2:v:245:LEU:C	2:v:247:GLN:NE2	2.60	0.59
2:v:330:ALA:C	2:v:336:ARG:HH11	2.10	0.59
2:v:368:ILE:HD11	2:v:409:PHE:CE2	2.37	0.59
2:v:386:ARG:HD2	2:v:386:ARG:C	2.27	0.59
1:w:247:PHE:CE2	5:x:283:PHE:CZ	2.89	0.59
6:y:57:GLN:O	6:y:61:ILE:CG1	2.39	0.59
6:y:96:VAL:O	6:y:97:ASP:HB3	2.03	0.59
6:y:116:LEU:N	6:y:119:ILE:CD1	2.65	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
13:7:198:PHE:O	13:7:201:SER:OG	2.15	0.59
14:8:25:ARG:NH1	15:9:104:ARG:HD3	2.17	0.59
1:I:183:THR:HG23	1:I:241:ASN:ND2	2.16	0.59
2:H:166:VAL:CG2	2:H:168:GLU:O	2.50	0.59
3:L:61:LEU:CD1	3:L:78:ARG:NE	2.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:199:VAL:HA	3:L:233:ASP:HB3	1.85	0.59
3:L:201:SER:O	3:L:204:VAL:HG22	2.02	0.59
5:J:371:LEU:HD13	6:K:196:ILE:CD1	2.32	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
10:Q:96:PHE:CZ	10:Q:106:GLU:CD	2.81	0.59
10:Q:410:VAL:CG2	15:V:256:ASN:HB2	2.32	0.59
13:T:175:TYR:CE1	13:T:188:MET:HB2	2.37	0.59
15:V:151:VAL:HG22	15:V:152:LYS:N	2.18	0.59
16:W:9:CYS:HB3	16:W:111:ALA:HA	1.85	0.59
19:B:202:LEU:C	19:B:205:VAL:HG12	2.28	0.59
25:n:87:LEU:HD12	25:n:133:CYS:SG	2.43	0.59
32:u:50:MET:HE2	32:u:192:VAL:HG22	1.84	0.59
2:v:144:ARG:O	2:v:147:TYR:CE1	2.55	0.59
1:w:184:TYR:HE1	1:w:239:VAL:N	2.00	0.59
6:y:70:LYS:HA	6:y:73:LEU:HD12	1.85	0.59
6:y:388:ARG:HH11	6:y:388:ARG:HG3	1.67	0.59
3:z:153:LEU:C	3:z:156:PRO:HD3	2.27	0.59
3:z:259:GLU:O	3:z:263:GLN:HG3	2.02	0.59
3:z:363:VAL:HG22	3:z:365:GLU:N	2.16	0.59
4:0:139:LEU:C	4:0:140:VAL:HG22	2.27	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
10:4:276:ALA:C	10:4:278:ARG:H	2.08	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
14:8:67:VAL:CG1	16:AA:88:THR:HG23	2.32	0.59
16:AA:54:LEU:CB	16:AA:85:THR:CA	2.80	0.59
18:AC:883:ALA:O	18:AC:895:GLU:HA	2.03	0.59
1:I:144:LEU:CG	1:I:162:VAL:HG23	2.16	0.59
2:H:373:LEU:HD11	2:H:410:LEU:HD23	1.83	0.59
3:L:146:ARG:NH2	3:L:190:GLN:OE1	2.33	0.59
3:L:242:ARG:HG3	3:L:242:ARG:NH1	2.14	0.59
3:L:353:PHE:HA	3:L:356:ARG:CB	2.30	0.59
4:M:272:PHE:HE2	4:M:316:GLN:C	2.10	0.59
5:J:155:ASP:O	5:J:156:LYS:C	2.45	0.59
5:J:159:LYS:O	5:J:163:GLU:HG3	2.03	0.59
6:K:41:TYR:CE1	7:N:183:LEU:HD22	2.37	0.59
6:K:161:ASP:O	6:K:162:VAL:C	2.45	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
28:q:189:ILE:HG23	28:q:196:THR:HB	1.84	0.59
2:v:153:LEU:CD2	1:w:132:TYR:OH	2.50	0.59
1:w:154:HIS:CE1	5:x:95:PHE:CD1	2.84	0.59
1:w:342:ILE:O	1:w:343:ARG:O	2.21	0.59
1:w:356:PRO:HB3	1:w:361:LYS:CG	2.27	0.59
5:x:46:GLN:HG2	6:y:61:ILE:CG2	2.32	0.59
5:x:377:HIS:NE2	11:5:206:SER:OG	2.31	0.59
3:z:322:LYS:NZ	3:z:326:ILE:CD1	2.64	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:N	9:3:161:GLU:OE1	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:O	14:8:88:ARG:HD3	2.02	0.59
15:9:151:VAL:HG22	15:9:152:LYS:H	1.68	0.59
18:AC:509:LYS:O	18:AC:514:VAL:N	2.35	0.59
3:L:61:LEU:HD13	3:L:78:ARG:CD	2.32	0.59
3:L:257:LEU:C	3:L:261:LEU:HD12	2.27	0.59
3:L:355:ILE:HD11	4:M:212:PHE:HA	1.83	0.59
4:M:397:LYS:O	4:M:401:VAL:N	2.26	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
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
10:Q:260:MET:CE	10:Q:325:LYS:HB2	2.31	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
16:W:15:TYR:C	16:W:25:ARG:HD3	2.28	0.59
1:w:173:VAL:HG11	5:x:232:ARG:HG3	1.85	0.59
5:x:31:LEU:HD13	12:6:201:ARG:NH1	2.15	0.59
4:0:272:PHE:HE2	4:0:316:GLN:C	2.10	0.59
4:0:382:GLU:O	4:0:386:ARG:N	2.30	0.59
7:1:45:ILE:HA	7:1:48:LEU:HD12	1.84	0.59
7:1:122:GLU:O	7:1:123:LYS:HG3	2.02	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
11:5:33:GLY:HA2	11:5:34:ASP:C	2.27	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
2:H:245:LEU:C	2:H:247:GLN:NE2	2.60	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:139:LEU:C	4:M:140:VAL:HG22	2.27	0.59
5:J:298:ILE:HD12	5:J:298:ILE:H	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
8:O:28:LEU:O	8:O:32:LYS:N	2.27	0.59
8:O:364:GLU:HG3	8:O:365:MET:N	2.16	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
27:b:32:SER:CA	27:b:187:ARG:NH2	2.66	0.59
30:e:20:ALA:HB2	30:e:31:VAL:HG21	1.83	0.59
32:g:9:THR:O	32:g:41:ARG:NH2	2.36	0.59
28:q:116:THR:O	28:q:192:LYS:NZ	2.35	0.59
1:w:362:LYS:HA	1:w:384:ILE:HD11	1.84	0.59
6:y:161:ASP:O	6:y:162:VAL:C	2.45	0.59
6:y:403:TYR:O	6:y:407:ILE:HD12	1.99	0.59
3:z:69:PHE:N	3:z:81:VAL:O	2.36	0.59
3:z:300:HIS:HD2	3:z:301:ILE:N	2.00	0.59
7:1:229:VAL:O	7:1:233:LEU:N	2.26	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:410:VAL:CG2	15:9:256:ASN:HB2	2.32	0.59
1:I:268:ARG:HH22	2:H:244:GLU:HA	1.67	0.59
3:L:155:ASN:H	3:L:156:PRO:HD3	1.68	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
6:K:122:GLU:HB3	15:V:278:GLN:HB3	1.83	0.59
12:S:348:PHE:CD2	12:S:361:PHE:CB	2.85	0.59
13:T:332:SER:OG	15:V:303:MET:C	2.43	0.59
19:h:141:ILE:HG22	19:h:151:VAL:HG22	1.85	0.59
31:t:38:ARG:NE	31:t:191:ASP:OD1	2.32	0.59
2:v:114:ASN:HD22	2:v:114:ASN:N	2.01	0.59
2:v:215:PHE:HB2	2:v:324:PRO:HG3	1.83	0.59
2:v:242:GLY:HA2	2:v:280:ILE:CG1	2.32	0.59
1:w:285:ASP:O	1:w:286:GLU:HB2	2.01	0.59
5:x:127:LEU:HD22	6:y:96:VAL:CG2	2.32	0.59
5:x:195:GLY:CA	33:x:501:ADP:C8	2.85	0.59
6:y:247:VAL:HG12	6:y:251:PHE:CD2	2.37	0.59
6:y:360:LEU:O	6:y:364:VAL:HG23	2.02	0.59
3:z:146:ARG:NH2	3:z:190:GLN:OE1	2.33	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
10:4:2:ALA:HB2	10:4:34:ASP:N	2.16	0.59
10:4:222:GLU:CG	10:4:225:TRP:HH2	2.16	0.59
11:5:131:THR:C	11:5:132:VAL:HG23	2.26	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
16:AA:63:THR:CG2	16:AA:64:LEU:N	2.64	0.59
1:I:390:LEU:CD1	1:I:395:ILE:HG12	2.33	0.59
2:H:346:PRO:CB	2:H:351:ARG:HG2	2.31	0.59
5:J:46:GLN:HG2	6:K:61:ILE:CG2	2.32	0.59
5:J:287:LYS:O	5:J:288:ASN:CB	2.50	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
11:R:33:GLY:HA2	11:R:34:ASP:C	2.27	0.59
14:U:69:PHE:HE1	16:W:60:VAL:HG21	1.67	0.59
14:U:88:ARG:O	14:U:88:ARG:HD3	2.02	0.59
31:f:38:ARG:NE	31:f:191:ASP:OD1	2.32	0.59
2:v:166:VAL:CG2	2:v:168:GLU:O	2.50	0.59
1:w:113:GLU:O	1:w:146:PRO:HB3	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:31:LEU:N	5:x:34:ILE:HD12	2.18	0.59
5:x:115:ALA:HB3	5:x:125:LYS:HG2	1.84	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
1:I:394:ASP:HB3	1:I:427:LEU:HD21	1.85	0.59
3:L:50:LEU:HD22	4:M:82:VAL:HG11	1.84	0.59
3:L:65:THR:H	3:L:68:LYS:HB2	1.68	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
6:K:394:VAL:HG11	6:K:398:ASP:CB	2.25	0.59
7:N:35:TRP:CH2	12:S:273:LYS:NZ	2.71	0.59
7:N:191:LYS:CG	7:N:195:ASN:CG	2.76	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
12:S:487:HIS:O	12:S:487:HIS:ND1	2.35	0.59
19:B:191:PHE:HE1	19:B:219:VAL:HG21	1.68	0.59
19:B:203:SER:O	19:B:207:SER:CA	2.51	0.59
2:v:272:ILE:HD12	2:v:315:ILE:HG22	1.83	0.59
2:v:373:LEU:HD22	2:v:413:VAL:HG21	1.85	0.59
1:w:232:LYS:HZ2	1:w:332:ASN:ND2	2.01	0.59
5:x:114:VAL:CG1	5:x:126:ILE:CB	2.72	0.59
5:x:161:ILE:HA	5:x:164:VAL:HG12	1.84	0.59
5:x:320:PRO:CG	5:x:354:ALA:O	2.50	0.59
3:z:242:ARG:NH1	3:z:242:ARG:HG3	2.14	0.59
3:z:384:LEU:HD23	4:0:340:PRO:HB2	1.84	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
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
13:7:173:CYS:O	13:7:177:ASP:CG	2.45	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
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
7:N:494:TYR:CE2	7:N:498:LYS:HD2	2.38	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:808:PRO:HB3	7:N:811:PHE:CD1	2.38	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
16:W:12:ASN:CG	16:W:80:PRO:HA	2.28	0.59
18:Z:661:ALA:HB2	18:Z:693:ALA:HB1	1.85	0.59
28:c:116:THR:O	28:c:192:LYS:NZ	2.35	0.59
1:w:394:ASP:HB3	1:w:427:LEU:HD21	1.85	0.59
1:w:414:VAL:CG1	1:w:418:ASP:HB2	2.32	0.59
6:y:247:VAL:CG1	6:y:251:PHE:CD2	2.86	0.59
6:y:310:ALA:C	6:y:311:THR:CG2	2.76	0.59
3:z:148:VAL:HG22	3:z:167:PRO:HG2	1.77	0.59
4:0:253:GLY:O	4:0:291:ILE:HG23	2.02	0.59
7:1:28:ASN:O	7:1:66:LYS:NZ	2.36	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
8:2:356:TRP:CZ3	14:8:205:LEU:HD21	2.38	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
2:H:99:THR:OG1	2:H:140:VAL:HG23	2.03	0.58
2:H:100:LYS:O	2:H:114:ASN:ND2	2.36	0.58
2:H:215:PHE:HB2	2:H:324:PRO:HG3	1.83	0.58
3:L:172:LEU:CD1	3:L:180:LYS:HA	2.33	0.58
3:L:205:ASP:O	3:L:206:LYS:HB3	2.02	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
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:154:LEU:O	6:K:155:THR:OG1	2.17	0.58
6:K:267:ILE:HG12	6:K:311:THR:CG2	2.33	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:3:ILE:O	25:X:3:ILE:HG22	2.02	0.58
25:X:227:VAL:O	25:X:232:ARG:NH1	2.36	0.58
5:x:137:LEU:HB2	5:x:224:ILE:HG13	1.85	0.58
5:x:301:LEU:HD11	5:x:306:LEU:HD11	1.85	0.58
6:y:167:ILE:HG13	6:y:214:MET:CE	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:267:ILE:CG1	6:y:311:THR:HG21	2.33	0.58
4:0:191:LEU:HD13	4:0:236:LEU:HD11	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
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
1:I:173:VAL:HG11	5:J:232:ARG:HG3	1.85	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
2:H:245:LEU:C	2:H:247:GLN:HE22	2.11	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
6:K:88:VAL:O	6:K:88:VAL:HG23	2.03	0.58
7:N:28:ASN:O	7:N:66:LYS:NZ	2.36	0.58
7:N:357:LYS:NZ	7:N:385:PHE:HB2	2.18	0.58
11:R:228:MET:HE3	11:R:263:LEU:CD2	2.31	0.58
11:R:268:TYR:CE2	11:R:307:LEU:HB2	2.33	0.58
18:Z:597:VAL:C	18:Z:599:ALA:H	2.11	0.58
25:X:87:LEU:HD12	25:X:133:CYS:SG	2.42	0.58
1:w:111:THR:HB	1:w:124:SER:HB2	1.85	0.58
5:x:148:TYR:CD2	5:x:206:HIS:CD2	2.90	0.58
5:x:194:THR:HA	5:x:356:GLY:N	2.17	0.58
6:y:267:ILE:HG12	6:y:311:THR:CG2	2.33	0.58
3:z:211:SER:HB3	3:z:256:THR:CG2	2.33	0.58
3:z:352:MET:O	3:z:356:ARG:HB2	2.03	0.58
3:z:362:VAL:HG12	3:z:363:VAL:N	2.18	0.58
4:0:394:ALA:O	4:0:397:LYS:HB3	2.03	0.58
7:1:191:LYS:CG	7:1:195:ASN:CG	2.76	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
9:3:401:THR:C	9:3:402:ILE:HG23	2.27	0.58
15:9:225:TRP:C	15:9:227:GLU:N	2.60	0.58
1:I:204:PRO:HG3	1:I:211:TYR:CZ	2.38	0.58
3:L:211:SER:HB3	3:L:256:THR:CG2	2.33	0.58
3:L:238:ILE:HD12	3:L:238:ILE:O	2.04	0.58
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:359:GLU:O	4:M:362:ARG:HB2	2.03	0.58
6:K:190:LEU:HB3	6:K:194:ILE:CD1	2.33	0.58
6:K:388:ARG:HH11	6:K:388:ARG:HG3	1.67	0.58
6:K:403:TYR:CA	6:K:407:ILE:HD13	2.34	0.58
15:V:117:GLY:HA2	15:V:148:ILE:HD11	1.84	0.58
18:Z:661:ALA:CB	18:Z:693:ALA:HB1	2.33	0.58
27:b:172:ASN:OD1	27:b:191:VAL:CG1	2.51	0.58
28:c:189:ILE:HG23	28:c:196:THR:HB	1.84	0.58
31:t:12:ILE:HD12	31:t:55:SER:HB2	1.85	0.58
2:v:90:GLU:HA	2:v:93:LEU:HB2	1.85	0.58
1:w:106:PRO:CB	5:x:97:VAL:CG1	2.77	0.58
1:w:207:HIS:O	1:w:210:TYR:CE1	2.57	0.58
5:x:85:VAL:N	5:x:97:VAL:O	2.36	0.58
5:x:98:ASP:OD1	5:x:99:VAL:N	2.36	0.58
5:x:298:ILE:H	5:x:298:ILE:HD12	1.67	0.58
5:x:373:GLU:CG	5:x:375:ARG:CD	2.76	0.58
6:y:56:VAL:HB	6:y:57:GLN:NE2	2.19	0.58
3:z:145:LEU:HD11	3:z:149:ILE:HD11	1.83	0.58
3:z:151:LEU:N	3:z:152:PRO:CD	2.65	0.58
3:z:195:PHE:CG	3:z:229:ILE:HB	2.31	0.58
3:z:199:VAL:HA	3:z:233:ASP:HB3	1.85	0.58
3:z:238:ILE:HD12	3:z:238:ILE:O	2.04	0.58
3:z:238:ILE:CG1	3:z:257:LEU:HA	2.31	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
1:I:115:ILE:HD11	1:I:146:PRO:HG3	1.85	0.58
1:I:174:MET:HE1	1:I:270:LEU:CA	2.34	0.58
1:I:218:PRO:HG3	1:I:326:LYS:HZ1	1.67	0.58
3:L:338:PHE:HE1	3:L:378:LYS:HE3	1.65	0.58
5:J:340:ARG:HH11	5:J:340:ARG:CB	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
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
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
18:Z:730:GLY:O	18:Z:734:SER:CB	2.51	0.58
25:X:50:GLU:OE2	25:X:201:HIS:ND1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:d:1:MET:HE1	29:d:134:TYR:H	1.68	0.58
1:w:119:ASN:O	1:w:134:SER:HA	2.03	0.58
1:w:349:ARG:HG3	1:w:349:ARG:NH1	2.17	0.58
1:w:390:LEU:CD1	1:w:395:ILE:HG12	2.33	0.58
5:x:39:SER:HB2	6:y:54:LEU:HD13	1.81	0.58
5:x:155:ASP:O	5:x:156:LYS:C	2.45	0.58
6:y:205:TYR:HE1	6:y:332:GLU:HA	1.68	0.58
3:z:188:ALA:O	3:z:192:ASP:OD1	2.21	0.58
4:0:314:LEU:CD2	4:0:342: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
13:7:262:ILE:O	13:7:265:ASP:CG	2.47	0.58
1:I:316:LEU:HD21	1:I:327:VAL:HG11	1.85	0.58
2:H:220:THR:HG21	2:H:343:PHE:O	2.04	0.58
3:L:99:ALA:N	3:L:109:ARG:O	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
5:J:69:GLN:HB3	5:J:118:ASN:OD1	2.03	0.58
6:K:96:VAL:O	6:K:97:ASP:HB3	2.03	0.58
6:K:267:ILE:CG1	6:K:311:THR:HG21	2.33	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
8:O:356:TRP:CZ3	14:U:205:LEU:HD21	2.38	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
16:W:24:THR:H	16:W:27:GLN:HB2	1.68	0.58
2:v:190:VAL:HG22	2:v:209:PRO:HB2	1.85	0.58
2:v:245:LEU:C	2:v:247:GLN:HE22	2.11	0.58
1:w:190:LEU:O	1:w:191:ASP:HB2	2.03	0.58
1:w:407:LEU:CD1	5:x:175:PHE:CZ	2.86	0.58
5:x:151:ILE:HD11	5:x:198:LEU:HB3	1.73	0.58
5:x:207:THR:CG2	5:x:209:CYS:CB	2.81	0.58
4:0:435:LEU:HD23	4:0:438:TYR:CD1	2.38	0.58
8:2:284:ARG:NH1	8:2:291:LEU:HD21	2.15	0.58
10:4:96:PHE:CZ	10:4:106:GLU:CD	2.81	0.58
10:4:183:LEU:CD1	10:4:220:ALA:HB1	2.10	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
16:AA:15:TYR:C	16:AA:25:ARG:HD3	2.28	0.58
18:AC:730:GLY:O	18:AC:734:SER:CB	2.51	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
5:J:55:LYS:O	5:J:59:LEU:N	2.36	0.58
5:J:383:PHE:O	5:J:387:VAL:HG23	2.04	0.58
6:K:54:LEU:O	6:K:58:GLU:N	2.33	0.58
6:K:348:ILE:HB	6:K:379:CYS:SG	2.43	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
12:S:472:PRO:HD2	12:S:473:GLN:N	2.12	0.58
14:U:176:LEU:HD21	15:V:214:GLN:HA	1.85	0.58
26:a:172:GLY:HA2	32:u:209:TRP:CH2	2.39	0.58
27:b:204:CYS:HB3	27:b:208:THR:HG21	1.83	0.58
2:v:100:LYS:O	2:v:114:ASN:ND2	2.36	0.58
2:v:302:LEU:HD11	2:v:306:LEU:CD2	2.28	0.58
2:v:302:LEU:O	2:v:306:LEU:CB	2.47	0.58
1:w:103:ARG:HG3	1:w:136:LEU:HD12	1.86	0.58
1:w:204:PRO:HG3	1:w:211:TYR:CZ	2.38	0.58
5:x:159:LYS:O	5:x:163:GLU:HG3	2.03	0.58
5:x:167:LEU:HD21	5:x:174:LEU:HD13	1.86	0.58
5:x:220:VAL:CG1	5:x:224:ILE:CD1	2.80	0.58
6:y:190:LEU:HB3	6:y:194:ILE:CD1	2.33	0.58
6:y:355:SER:OG	6:y:358:VAL:HG23	2.02	0.58
6:y:403:TYR:CA	6:y:407:ILE:HD13	2.34	0.58
3:z:132:TYR:CD2	3:z:146:ARG:NE	2.69	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: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
2:H:99:THR:HG23	2:H:142:VAL:HG23	1.83	0.58
2:H:99:THR:HB	2:H:113:ILE:HG21	1.85	0.58
2:H:191:VAL:HG13	2:H:271:LEU:CD2	2.29	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:166:ASP:OD2	6:K:214:MET:HE1	2.03	0.58
6:K:230:VAL:HG11	6:K:235:PHE:HE1	1.68	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
8:O:342:ASP:CG	8:O:343:LEU:N	2.62	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
28:c:58:THR:OG1	29:d:121:LEU:O	2.14	0.58
23:l:146:VAL:HG11	23:l:222:PRO:HA	1.86	0.58
25:n:186:CYS:HB3	25:n:215:TRP:CZ3	2.38	0.58
29:r:1:MET:HE1	29:r:134:TYR:H	1.69	0.58
2:v:130:ALA:HB1	2:v:131:PRO:HD2	1.86	0.58
1:w:218:PRO:HB2	1:w:219:PRO:HD2	1.86	0.58
1:w:247:PHE:CE1	1:w:281:ILE:HG21	2.39	0.58
1:w:283:PHE:HE2	1:w:285:ASP:HB2	1.68	0.58
6:y:47:LEU:HD22	6:y:50:GLU:OE1	2.04	0.58
6:y:116:LEU:N	6:y:119:ILE:HD13	2.19	0.58
3:z:205:ASP:CG	3:z:210:GLU:HG2	2.28	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
9:3:148:THR:O	9:3:152:ILE:HB	2.03	0.58
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
1:I:200:SER:HA	1:I:219:PRO:HG3	1.83	0.58
1:I:207:HIS:O	1:I:210:TYR:CE1	2.57	0.58
4:M:433:ALA:O	4:M:434:ASN:HB2	2.04	0.58
5:J:72:TYR:CE2	5:J:121:TYR:CZ	2.88	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:148:TYR:CD2	5:J:206:HIS:CD2	2.90	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
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
16:W:107:MET:HB2	16:W: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
28:c:65:GLN:OE1	29:d:86:ARG:NH2	2.37	0.58
27:p:204:CYS:HB3	27:p:208:THR:HG21	1.86	0.58
2:v:181:LYS:O	2:v:185:GLU:HB2	2.04	0.58
2:v:388:VAL:HG13	2:v:412:ALA:CB	2.34	0.58
1:w:375:ALA:HB2	1:w:414:VAL:O	2.04	0.58
1:w:423:LYS:HG3	1:w:427:LEU:HD12	1.86	0.58
6:y:41:TYR:CE1	7:1:183:LEU:HD22	2.37	0.58
6:y:54:LEU:O	6:y:58:GLU:N	2.33	0.58
6:y:133:HIS:O	6:y:137:ASN:HA	2.03	0.58
6:y:246:MET:O	6:y:249:ASP:HB2	2.03	0.58
3:z:65:THR:H	3:z:68:LYS:HB2	1.68	0.58
4:0:272:PHE:HZ	4:0:317:LEU:HD13	1.67	0.58
4:0:343:LEU:HB3	4:0:351:LYS:HZ3	1.68	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
2:H:300:LEU:HA	2:H:303:ILE:HB	1.86	0.58
3:L:322:LYS:CD	3:L:326:ILE:CD1	2.78	0.58
4:M:426:GLU:C	4:M:428:GLN:H	2.11	0.58
4:M:435:LEU:HD11	23:l:20:ARG:HB2	1.82	0.58
5:J:247:PHE:HD1	5:J:292:ILE:CG2	2.12	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
24:G:165:SER:OG	24:G:169:ARG:NH2	2.36	0.58
21:j:143:TYR:CE2	22:k:57:ARG:NH1	2.72	0.58
2:v:99:THR:OG1	2:v:140:VAL:HG23	2.03	0.58
2:v:157:ILE:HG21	2:v:263:MET:HG2	1.85	0.58
2:v:220:THR:HG21	2:v:343:PHE:O	2.04	0.58
1:w:223:ILE:HD12	1:w:347:ILE:CG2	2.32	0.58
1:w:227:PRO:HG2	1:w:355:LEU:CD1	2.32	0.58
1:w:246:THR:HG1	1:w:280:SER:HB3	1.65	0.58
1:w:283:PHE:CD1	1:w:328:ILE:CB	2.84	0.58
1:w:287:ILE:HD12	1:w:288:ASP:H	1.69	0.58
1:w:365:PHE:CZ	1:w:383:LEU:HD13	2.39	0.58
6:y:155:THR:OG1	6:y:156:SER:N	2.37	0.58
3:z:181:THR:CB	33:z:401:ADP:O2A	2.45	0.58
4:0:299:GLU:O	4:0:300: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
7:1:357:LYS:NZ	7:1:385:PHE:HB2	2.18	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
18:AC:597:VAL:C	18:AC:599:ALA:H	2.11	0.58
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
2:H:190:VAL:HG22	2:H:209:PRO:HB2	1.85	0.58
3:L:125:GLU:O	3:L:126:ASP:C	2.46	0.58
3:L:153:LEU:C	3:L:156:PRO:CD	2.77	0.58
4:M:88:TYR:OH	4:M:161:LEU:CB	2.52	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
9:P:67:LEU:O	9:P:71:VAL:HG13	2.04	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
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
21:D:11:ILE:HG12	22:E:7:ILE:HG23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X:170:GLN:HG2	3:z:372:ARG:CB	2.34	0.58
2:v:113:ILE:O	2:v:120:LYS:HA	2.04	0.58
2:v:157:ILE:HG22	2:v:161:VAL:HB	1.85	0.58
1:w:257:GLN:HE22	1:w:266:LEU:CG	2.08	0.58
5:x:188:LEU:HB3	5:x:317:PHE:CE1	2.39	0.58
6:y:93:LEU:HD11	6:y:94:GLU:OE1	2.04	0.58
6:y:211:GLY:N	33:y:501:ADP:O1A	2.37	0.58
3:z:336:ASP:C	3:z:338:PHE:H	2.12	0.58
3:z:338:PHE:HE1	3:z:378:LYS:HE3	1.65	0.58
4:0:223:VAL:CG1	4:0:224:LEU:N	2.67	0.58
7:1:368:ALA:HB2	7:1:728:PHE:CD2	2.39	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
9:3:166:LEU:HD21	9:3:192:LEU:CD1	2.34	0.58
10:4:55:SER:HA	10:4:58:ALA:HB3	1.85	0.58
10:4:251:LEU:HD11	10:4:276:ALA:HB2	1.82	0.58
12:6:416:ARG:HA	12:6:458:VAL:O	2.04	0.58
14:8:32:GLN:O	14:8:33:LYS:HB2	2.02	0.58
1:I:365:PHE:CE2	1:I:395:ILE:HG23	2.39	0.57
3:L:326:ILE:HG22	3:L:328:TYR:CD2	2.38	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:93:LEU:HD11	6:K:94:GLU:OE1	2.04	0.57
6:K:310:ALA:C	6:K:311:THR:CG2	2.76	0.57
6:K:345:PHE:HB3	6:K:360:LEU:HD23	1.86	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
9:P:143:ALA:O	9:P:146:THR:OG1	2.21	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
13:T:262:ILE:O	13:T:265:ASP:CG	2.47	0.57
14:U:23:PHE:CG	14:U:126:VAL:HG21	2.36	0.57
20:i:100:TYR:HE1	28:q:90:MET:CE	2.17	0.57
1:w:115:ILE:HD11	1:w:146:PRO:HG3	1.85	0.57
5:x:69:GLN:HB3	5:x:118:ASN:OD1	2.03	0.57
5:x:339:THR:HA	11:5:207:THR:HG22	1.86	0.57
6:y:88:VAL:O	6:y:88:VAL:HG23	2.03	0.57
3:z:69:PHE:HZ	3:z:83:CYS:SG	2.21	0.57
3:z:122:MET:HE1	3:z:218:MET:HG3	1.86	0.57
3:z:166:PRO:CB	3:z:274:LYS:NZ	2.67	0.57
3:z:257:LEU:C	3:z:261:LEU:HD12	2.27	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:282:PRO:HD2	3:z:386:TYR:O	2.04	0.57
3:z:362:VAL:HG12	3:z:363:VAL:H	1.67	0.57
4:0:307:GLN:O	4:0:310:MET:HB3	2.04	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
1:I:203:LEU:HB3	1:I:204:PRO:CD	2.30	0.57
2:H:196:LEU:O	2:H:198:PRO:CD	2.49	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
3:L:336:ASP:C	3:L:338:PHE:H	2.12	0.57
4:M:215:LEU:HD23	4:M:215:LEU:O	2.05	0.57
5:J:321:ASN:O	5:J:325:ARG:CG	2.46	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
7:N:423:MET:HE3	7:N:445:ALA:CB	2.34	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
30:e:83:LEU:HD11	30:e:97:MET:HE1	1.86	0.57
2:v:99:THR:HB	2:v:113:ILE:HG21	1.85	0.57
2:v:111:TYR:CE2	2:v:134:ILE:HD12	2.39	0.57
2:v:393:GLY:HA2	1:w:214:MET:HE1	1.87	0.57
1:w:291:GLY:C	1:w:293:LYS:H	2.11	0.57
5:x:88:LYS:HG3	5:x:93:GLY:C	2.29	0.57
6:y:194:ILE:HB	6:y:196:ILE:HD11	1.85	0.57
6:y:345:PHE:CE1	6:y:375:ILE:CG2	2.87	0.57
3:z:125:GLU:O	3:z:126:ASP:C	2.46	0.57
3:z:326:ILE:HG22	3:z:328:TYR:CD2	2.38	0.57
4:0:188:ILE:CG2	4:0:189:GLY:H	2.12	0.57
4:0:426:GLU:C	4:0:428:GLN:H	2.11	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
11:5:22:LEU:HA	11:5:25:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:230:THR:HG23	1:I:353:PHE:C	2.18	0.57
1:I:247:PHE:CE1	1:I:281:ILE:HG21	2.39	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
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
6:K:71:GLU:O	6:K:74:HIS:N	2.37	0.57
6:K:162:VAL:HB	6:K:217:LYS:HB3	1.86	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
14:U:240:VAL:C	14:U:242:LEU:N	2.62	0.57
30:e:97:MET:HB3	30:e:116:SER:HB3	1.85	0.57
21:j:11:ILE:HG12	22:k:7:ILE:HG23	1.84	0.57
6:y:92:PHE:CD1	6:y:93:LEU:N	2.72	0.57
6:y:162:VAL:HB	6:y:217:LYS:HB3	1.86	0.57
6:y:230:VAL:HG11	6:y:235:PHE:HE1	1.68	0.57
6:y:336:PRO:HA	6:y:340:GLN:OE1	2.04	0.57
6:y:345:PHE:HB3	6:y:360:LEU:HD23	1.86	0.57
3:z:153:LEU:C	3:z:156:PRO:CD	2.77	0.57
3:z:178:THR:HB	3:z:301:ILE:HG22	1.87	0.57
3:z:365:GLU:C	3:z:367:PHE:H	2.13	0.57
7:1:423:MET:HE3	7:1:445:ALA:CB	2.34	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
9:3:438: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
1:I:214:MET:HE1	2:H:393:GLY:HA2	1.87	0.57
2:H:144:ARG:O	2:H:147:TYR:CD1	2.58	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:104:ASP:CG	5:J:107:ASP:OD2	2.47	0.57
6:K:403:TYR:O	6:K:407:ILE:HD12	1.99	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
8:O:343:LEU:HD21	14:U:216:ALA:HB1	1.86	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
14:U:175:LEU:C	14:U:177:ARG:H	2.12	0.57
20:C:100:TYR:HE1	28:c:90:MET:CE	2.17	0.57
28:q:45:MET:HE3	28:q:71:LEU:HD22	1.86	0.57
2:v:259:GLU:HA	2:v:262:GLU:HB2	1.86	0.57
2:v:300:LEU:HA	2:v:303:ILE:HB	1.86	0.57
1:w:106:PRO:HG3	5:x:121:TYR:O	2.05	0.57
1:w:125:THR:OG1	1:w:127:VAL:HG22	2.04	0.57
1:w:316:LEU:HD21	1:w:327:VAL:HG11	1.85	0.57
5:x:307:ARG:O	5:x:309:GLY:N	2.38	0.57
6:y:87:LEU:HD22	6:y:140:VAL:HG21	1.86	0.57
3:z:132:TYR:HD1	3:z:133:SER:H	1.52	0.57
4:0:88:TYR:OH	4:0:161:LEU:CB	2.52	0.57
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
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
16:AA:12:ASN:CG	16:AA:80:PRO:HA	2.28	0.57
18:AC:661:ALA:HB1	18:AC:693:ALA:O	2.05	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
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
4:M:136:VAL:O	4:M:137:ILE:C	2.48	0.57
4:M:310:MET:HE1	4:M:339:ASP:CB	2.32	0.57
5:J:85:VAL:HG22	5:J:99:VAL:HG13	1.85	0.57
5:J:88:LYS:HG3	5:J:93:GLY:C	2.29	0.57
5:J:286:THR:O	5:J:287:LYS:CB	2.50	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
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
28:c:125:ASP:HB2	28:c:129:CYS:H	1.69	0.57
2:v:244:GLU:HA	1:w:268:ARG:NH2	2.20	0.57
1:w:112:LEU:HB2	1:w:148:CYS:N	2.20	0.57
5:x:66:LEU:O	6:y:136:SER:CA	2.53	0.57
6:y:166:ASP:OD2	6:y:214:MET:HE1	2.03	0.57
6:y:184:PRO:CB	6:y:191:TYR:CE2	2.86	0.57
3:z:172:LEU:CD1	3:z:180:LYS:HA	2.33	0.57
3:z:303:LEU:CD2	3:z:339:ASN:CA	2.64	0.57
7:1:434:GLY:O	7:1:435:SER:HB3	2.05	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
1:I:106:PRO:HG3	5:J:121:TYR:O	2.05	0.57
1:I:111:THR:HB	1:I:124:SER:HB2	1.85	0.57
2:H:222:LYS:NZ	2:H:322:ASN:HD22	2.03	0.57
3:L:195:PHE:HA	3:L:229:ILE:O	2.04	0.57
5:J:137:LEU:HB2	5:J:224:ILE:HG13	1.85	0.57
5:J:167:LEU:HD21	5:J:174:LEU:HD13	1.86	0.57
6:K:191:TYR:CE1	6:K:198:PRO:HB3	2.38	0.57
6:K:415:GLU:HG3	19:h:159:TYR:CE2	2.38	0.57
7:N:434:GLY:O	7:N:435:SER:HB3	2.05	0.57
7:N:561:GLU:N	7:N:561:GLU:OE1	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:89:GLN:O	13:T:92:THR:OG1	2.17	0.57
13:T:341:GLU:O	13:T:345:GLN:N	2.24	0.57
14:U:22:HIS:O	14:U:26:ILE:CG1	2.53	0.57
28:c:45:MET:HE3	28:c:71:LEU:HD22	1.86	0.57
32:g:212:ALA:HA	26:o:30:VAL:CG2	2.34	0.57
1:w:107:MET:HE1	1:w:151:LEU:CB	2.31	0.57
1:w:112:LEU:O	1:w:147:GLY:CA	2.51	0.57
1:w:184:TYR:CE2	1:w:202:GLU:OE1	2.58	0.57
1:w:232:LYS:HZ2	1:w:332:ASN:HD22	1.50	0.57
6:y:312:ASN:ND2	6:y:312:ASN:H	2.02	0.57
3:z:155:ASN:H	3:z:156:PRO:HD3	1.68	0.57
4:0:375:VAL:CG1	4:0:376:SER:H	2.17	0.57
4:0:379:VAL:HG12	4:0:379:VAL:O	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:96:PHE:CE2	10:4:106:GLU:HG3	2.40	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
10:4:258:LYS:HE3	10:4:266:ASP:CG	2.29	0.57
11:5:228:MET:HE3	11:5:263:LEU:CD2	2.31	0.57
14:8:79:TYR:CE1	14:8:83:LYS:NZ	2.73	0.57
14:8:175:LEU:C	14:8:177:ARG:H	2.12	0.57
1:I:180:PRO:HG3	1:I:240:ALA:CB	2.34	0.57
1:I:218:PRO:HB2	1:I:219:PRO:HD2	1.86	0.57
2:H:388:VAL:HG13	2:H:412:ALA:CB	2.34	0.57
3:L:61:LEU:HD11	3:L:78:ARG:CD	2.26	0.57
3:L:122:MET:HE1	3:L:218:MET:HG3	1.86	0.57
3:L:238:ILE:HD13	3:L:257:LEU:N	2.20	0.57
5:J:276:LEU:O	5:J:280:LEU:HG	2.05	0.57
6:K:385:LEU:HD21	6:K:401:LYS:HG3	1.87	0.57
10:Q:122:ARG:C	10:Q:124:PHE:H	2.13	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
32:g:209:TRP:CH2	26:o:172:GLY:HA2	2.40	0.57
1:w:151:LEU:O	1:w:159:VAL:HA	2.05	0.57
6:y:397:LYS:HA	6:y:400:GLU:HB2	1.86	0.57
4:0:183:GLU:C	4:0:184:GLN:O	2.47	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
14:8:240:VAL:C	14:8:242:LEU:N	2.62	0.57
16:AA:24:THR:H	16:AA:27:GLN:HB2	1.68	0.57
16:AA:141:ILE:HG23	16:AA:173:VAL:HG21	1.86	0.57
1:I:125:THR:OG1	1:I:127:VAL:HG22	2.04	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
3:L:170:CYS:HB3	3:L:299:ILE:HD12	1.87	0.57
3:L:205:ASP:CG	3:L:210:GLU:HG2	2.28	0.57
3:L:281:ARG:NH2	3:L:386:TYR:CZ	2.73	0.57
4:M:183:GLU:C	4:M:184:GLN:O	2.47	0.57
4:M:249:LEU:CD2	4:M:283:ILE:CG1	2.43	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:263:PHE:CE1	6:K:265:ASP:HB2	2.33	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:68:VAL:C	9:P:71:VAL:HG22	2.30	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
20:C:52:LYS:C	20:C:53:SER:OG	2.48	0.57
2:v:90:GLU:O	2:v:93:LEU:HB2	2.04	0.57
2:v:173:THR:HG22	2:v:174:TYR:H	1.70	0.57
5:x:104:ASP:CG	5:x:107:ASP:OD2	2.47	0.57
5:x:149:GLU:HG2	11:5:133:ALA:CB	2.34	0.57
6:y:385:LEU:HD21	6:y:401:LYS:HG3	1.87	0.57
6:y:391:ARG:HH12	6:y:395:LEU:HD12	1.69	0.57
3:z:195:PHE:HA	3:z:229:ILE:O	2.04	0.57
3:z:238:ILE:HD13	3:z:257:LEU:N	2.20	0.57
3:z:253:ILE:HG13	4:0:308:ARG:CZ	2.34	0.57
7:1:541:HIS:HB2	7:1:544:ILE:HB	1.87	0.57
9:3:448:LYS:NZ	14:8:154:THR:OG1	2.37	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
14:8:22:HIS:O	14:8:26:ILE:CG1	2.53	0.57
14:8:116:CYS:SG	14:8:117:PRO:HD3	2.45	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
1:I:164:MET:HG2	1:I:164:MET:O	2.04	0.57
1:I:283:PHE:HE2	1:I:285:ASP:HB2	1.68	0.57
2:H:161:VAL:CG2	2:H:259:GLU:HB2	2.32	0.57
2:H:360:ARG:HG2	2:H:360:ARG:O	2.04	0.57
3:L:269:THR:O	3:L:270:LEU:C	2.48	0.57
4:M:260:PHE:O	4:M:262:GLY:N	2.37	0.57
6:K:57:GLN:O	6:K:61:ILE:CG1	2.39	0.57
6:K:370:ILE:CG2	6:K:374:ASP:HB2	2.34	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
20:C:207:ILE:HD11	20:C:229:LEU:HD21	1.87	0.57
1:w:115:ILE:CD1	1:w:146:PRO:HG3	2.34	0.57
1:w:276:GLU:C	1:w:278:ALA:N	2.61	0.57
1:w:362:LYS:HG3	1:w:384:ILE:HD12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:371:LEU:HD22	6:y:196:ILE:HD13	1.87	0.57
6:y:191:TYR:CE1	6:y:198:PRO:HB3	2.38	0.57
6:y:210:CYS:SG	6:y:335:LEU:CA	2.91	0.57
6:y:345:PHE:CB	6:y:360:LEU:HD23	2.34	0.57
6:y:403:TYR:C	6:y:407:ILE:CD1	2.66	0.57
3:z:281:ARG:NH2	3:z:386:TYR:CZ	2.73	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
1:I:103:ARG:HG3	1:I:136:LEU:HD12	1.86	0.57
1:I:190:LEU:O	1:I:191:ASP:HB2	2.03	0.57
1:I:257:GLN:HE22	1:I:266:LEU:CG	2.08	0.57
1:I:268:ARG:NH2	2:H:244:GLU:HA	2.20	0.57
1:I:356:PRO:HB2	1:I:361:LYS:HG3	1.87	0.57
1:I:392:GLY:C	33:I:501:ADP:N7	2.63	0.57
2:H:223:THR:HG22	2:H:227:ARG:HD2	1.86	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
15:V:307:VAL:HG23	15:V:308:VAL:N	2.19	0.57
2:v:222:LYS:NZ	2:v:322:ASN:HD22	2.03	0.57
2:v:299:MET:CE	2:v:328:ASP:HB2	2.33	0.57
2:v:331:LEU:O	2:v:337:LEU:HB2	2.05	0.57
1:w:343:ARG:CZ	1:w:346:ARG:HH21	2.14	0.57
6:y:185:LEU:HD22	6:y:259:PRO:HB3	1.87	0.57
6:y:345:PHE:CD1	6:y:375:ILE:CG2	2.88	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
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
1:I:361:LYS:HA	1:I:364:ILE:HD12	1.87	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
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:379:VAL:HG12	4:M:379:VAL:O	2.04	0.56
6:K:360:LEU:CD1	6:K:363:TYR:CD2	2.83	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:149:THR:C	8:O:151:VAL:H	2.14	0.56
9:P:63:THR:CB	9:P:102:ALA:HB1	2.35	0.56
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: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
15:V:237:HIS:C	15:V:237:HIS:HD2	2.11	0.56
22:E:119:THR:O	23:F:135:ARG:NH1	2.38	0.56
22:k:119:THR:O	23:l:135:ARG:NH1	2.38	0.56
24:m:212:ILE:CD1	24:m:229:VAL:HG13	2.35	0.56
2:v:87:LEU:O	2:v:91:GLN:HG2	2.04	0.56
2:v:258:ARG:HD2	2:v:305:GLN:HE22	1.68	0.56
2:v:276:GLU:OE2	1:w:313:LEU:HD23	2.04	0.56
1:w:120:HIS:HA	1:w:133:VAL:O	2.05	0.56
1:w:392:GLY:C	33:w:501:ADP:N7	2.63	0.56
1:w:406:ALA:HB2	1:w:414:VAL:HG22	1.87	0.56
5:x:173:GLU:O	5:x:177:ALA:HB2	2.05	0.56
5:x:339:THR:HA	11:5:207:THR:HG23	1.87	0.56
5:x:383:PHE:O	5:x:387:VAL:HG23	2.04	0.56
6:y:285:VAL:O	6:y:288:ILE:HB	2.05	0.56
3:z:49:ALA:HB1	4:0:136:VAL:CG1	2.33	0.56
3:z:83:CYS:HA	3:z:107:ILE:HD12	1.87	0.56
3:z:152:PRO:HB2	3:z:166:PRO:HB3	1.87	0.56
7:1:86:ASP:CG	7:1:87:LEU:H	2.13	0.56
10:4:19:ASP:HA	10:4:22:ALA:HB3	1.86	0.56
10:4:130:GLU:OE1	10:4:149:LEU:HD11	2.04	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
11:5:234: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
1:I:390:LEU:HD11	1:I:395:ILE:CD1	2.36	0.56
2:H:124:ASP:HB2	4:M:86:LEU:HD13	1.87	0.56
2:H:299:MET:CE	2:H:328:ASP:HB2	2.33	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:65:GLN:OE1	6:K:69:LYS:NZ	2.38	0.56
6:K:130:VAL:C	6:K:143:LEU:HD23	2.30	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:61:GLY:O	10:Q:64:ALA:CA	2.53	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
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:61:ASP:CA	16:W:95:LEU:HD11	2.35	0.56
14:U:177:ARG:HG3	14:U:178:ASP:N	2.19	0.56
15:V:118:PHE:O	15:V:121:TRP:NE1	2.37	0.56
31:f:12:ILE:HD12	31:f:55:SER:HB2	1.85	0.56
2:v:223:THR:HG22	2:v:227:ARG:HD2	1.86	0.56
2:v:360:ARG:HG2	2:v:360:ARG:O	2.04	0.56
33:v:501:ADP:O2B	1:w:346:ARG:NH2	2.38	0.56
1:w:115:ILE:HG22	1:w:141:LYS:HE3	1.87	0.56
1:w:162:VAL:CG1	1:w:163:LEU:N	2.59	0.56
1:w:358:GLU:O	1:w:362:LYS:HD2	2.06	0.56
1:w:426:VAL:CG1	5:x:308:PRO:HB3	2.35	0.56
5:x:111:ASN:O	5:x:130:LYS:HG2	2.06	0.56
5:x:347:ILE:HD13	5:x:383:PHE:HB3	1.86	0.56
6:y:89:ILE:CD1	3:z:70:ILE:HG23	2.35	0.56
6:y:370:ILE:CG2	6:y:374:ASP:HB2	2.34	0.56
4:0:136:VAL:O	4:0:137:ILE:C	2.48	0.56
4:0:374:ASN:O	4:0:414:GLU:HA	2.05	0.56
4:0:402:GLU:OE1	4:0:427:VAL:HG23	2.05	0.56
4:0:433:ALA:O	4:0:434:ASN:HB2	2.04	0.56
7:1:3:THR:OG1	13:7:127:ASN:HA	2.05	0.56
7:1:160:LEU:O	7:1:163:PHE:C	2.48	0.56
7:1:164:GLU:O	7:1:165:LYS:HG3	2.04	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
15:9:267:PRO:HD2	15:9:268:GLU:N	2.12	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:214:MET:HE2	2:H:397:ILE:HG13	1.88	0.56
1:I:311:GLU:OE1	2:H:243:SER:CB	2.54	0.56
1:I:426:VAL:CG1	5:J:308:PRO:HB3	2.35	0.56
2:H:259:GLU:HA	2:H:262:GLU:HB2	1.86	0.56
2:H:300:LEU:HD23	2:H:303:ILE:HD12	1.87	0.56
3:L:70:ILE:HG23	6:K:89:ILE:CD1	2.35	0.56
3:L:115:VAL:O	3:L:119:VAL:HG23	2.05	0.56
3:L:122:MET:HE3	3:L:218:MET:SD	2.45	0.56
3:L:132:TYR:HD1	3:L:133:SER:H	1.52	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:166:PRO:CB	3:L:274:LYS:NZ	2.67	0.56
3:L:181:THR:CB	33:L:401:ADP:O2A	2.45	0.56
3:L:194:ASN:HB3	3:L:228:CYS:SG	2.45	0.56
3:L:195:PHE:CE1	3:L:229:ILE:CG2	2.85	0.56
4:M:89:LEU:HD21	4:M:126:THR:CB	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
5:J:66:LEU:O	6:K:136:SER:CA	2.53	0.56
5:J:149:GLU:HG2	11:R:133:ALA:CB	2.34	0.56
5:J:377:HIS:NE2	11:R:206:SER:OG	2.31	0.56
6:K:85:ILE:HG22	6:K:86:PRO:HD3	1.87	0.56
6:K:89:ILE:HG23	6:K:143:LEU:CD2	2.35	0.56
6:K:210:CYS:SG	6:K:335:LEU:CA	2.91	0.56
6:K:397:LYS:HA	6:K:400:GLU:HB2	1.86	0.56
7:N:177:LEU:O	7:N:181:LEU:N	2.25	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: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
10:Q:258:LYS:HE3	10:Q:266:ASP:CG	2.29	0.56
10:Q:364:LYS:O	10:Q:367:GLN:N	2.39	0.56
11:R:228:MET:HE1	11:R:271:PHE:CE2	2.29	0.56
14:U:223:ASN:C	14:U:225:GLN:N	2.63	0.56
15:V:225:TRP:HE3	15:V:226:MET:N	2.04	0.56
18:Z:227:ALA:C	18:Z:229:VAL:N	2.63	0.56
24:G:176:MET:HE1	25:X:56:LYS:HB3	1.88	0.56
26:a:142:THR:HB	26:a:155:PHE:HE1	1.70	0.56
32:g:51:LEU:HD13	32:g:112:ILE:HG12	1.87	0.56
20:i:191:ILE:HG21	20:i:229:LEU:HD23	1.87	0.56
26:o:142:THR:HB	26:o:155:PHE:HE1	1.71	0.56
2:v:90:GLU:HA	2:v:93:LEU:CD2	2.26	0.56
2:v:99:THR:HG21	2:v:142:VAL:HG21	0.65	0.56
2:v:124:ASP:HB2	4:0:86:LEU:HD13	1.87	0.56
2:v:300:LEU:HD23	2:v:303:ILE:HD12	1.87	0.56
1:w:180:PRO:HG3	1:w:240:ALA:CB	2.34	0.56
1:w:356:PRO:HB2	1:w:361:LYS:HG3	1.87	0.56
1:w:390:LEU:HD11	1:w:395:ILE:CD1	2.36	0.56
5:x:99:VAL:HB	5:x:103:ILE:HD11	1.88	0.56
5:x:118:ASN:O	5:x:121:TYR:CE1	2.58	0.56
5:x:329:LEU:O	5:x:329:LEU:HD12	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:85:ILE:HG22	6:y:86:PRO:HD3	1.87	0.56
6:y:89:ILE:HG23	6:y:143:LEU:CD2	2.35	0.56
6:y:133:HIS:HB3	6:y:138:ALA:H	1.71	0.56
6:y:285:VAL:HA	6:y:288:ILE:HD12	1.87	0.56
6:y:341:LYS:HA	6:y:344:ILE:HD12	1.87	0.56
3:z:52:SER:C	3:z:53:VAL:CG2	2.78	0.56
3:z:205:ASP:OD2	3:z:210:GLU:CD	2.49	0.56
3:z:322:LYS:CD	3:z:326:ILE:CD1	2.78	0.56
7:1:24:LEU:HB3	7:1:59:PHE:CG	2.41	0.56
7:1:35:TRP:HZ3	12:6:273:LYS:HD2	1.61	0.56
7:1:42:VAL:HA	7:1:45:ILE:HD12	1.86	0.56
7:1:68:PHE:O	7:1:72:GLY:N	2.38	0.56
7:1:354:LYS:O	7:1:358:ASP:CG	2.48	0.56
7:1:505:ASP:O	7:1:509:GLY:N	2.38	0.56
7:1:540:GLN:O	7:1:541:HIS:ND1	2.38	0.56
8:2:149:THR:C	8:2:151:VAL:H	2.14	0.56
8:2:374:ILE:HD12	13:7:347:GLU:CD	2.30	0.56
10:4:92:LEU:O	10:4:96:PHE:CB	2.53	0.56
10:4:118:LYS:HE2	10:4:126:ARG:NH2	2.20	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
13:7:251:ILE:C	13:7:253:ALA:H	2.13	0.56
15:9:211:GLU:O	15:9:214:GLN:CG	2.54	0.56
15:9:211:GLU:O	15:9:215:LYS:HG3	2.04	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
18:AC:227:ALA:C	18:AC:229:VAL:N	2.63	0.56
18:AC:661:ALA:CB	18:AC:693:ALA:O	2.53	0.56
1:I:358:GLU:O	1:I:362:LYS:HD2	2.06	0.56
2:H:83:ASP:HA	2:H:86:THR:HG1	1.69	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
3:L:99:ALA:CB	3:L:109:ARG:O	2.53	0.56
4:M:187:ASP:C	4:M:368:ILE:HD13	2.28	0.56
4:M:317:LEU:HD11	4:M:328:VAL:HG21	1.88	0.56
5:J:85:VAL:HG21	5:J:123:LEU:HD11	1.86	0.56
5:J:347:ILE:HD13	5:J:383:PHE:HB3	1.86	0.56
6:K:47:LEU:HD22	6:K:50:GLU:OE1	2.04	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:3:THR:OG1	13:T:127:ASN:HA	2.05	0.56
7:N:5:ALA:N	7:N:37:GLU:OE1	2.37	0.56
7:N:160:LEU:O	7:N:163:PHE:C	2.48	0.56
7:N:354:LYS:O	7:N:358:ASP:CG	2.48	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
25:n:50:GLU:OE2	25:n:201:HIS:ND1	2.36	0.56
30:s:97:MET:HB3	30:s:116:SER:HB3	1.87	0.56
1:w:217:LYS:HB3	1:w:218:PRO:HD2	1.86	0.56
1:w:227:PRO:HG2	1:w:355:LEU:CD2	2.34	0.56
5:x:340:ARG:HH11	5:x:340:ARG:CB	2.12	0.56
3:z:115:VAL:O	3:z:119:VAL:HG23	2.05	0.56
3:z:122:MET:HE3	3:z:218:MET:SD	2.45	0.56
3:z:138:LEU:C	3:z:140:GLU:N	2.39	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
9:3:453:HIS:O	9:3:454:ASN:HB2	2.04	0.56
10:4:171:LEU:HD21	10:4:210:LEU:CA	2.35	0.56
10:4:187:ARG:HA	10:4:217:ILE:HD13	1.87	0.56
11:5:17:LEU:HD11	11:5:213:LEU:HG	1.87	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
11:5:199: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:HG22	13:7:330:ILE:O	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
1:I:276:GLU:O	1:I:278:ALA:N	2.39	0.56
3:L:79:TYR:CE1	6:K:88:VAL:HG12	2.40	0.56
3:L:152:PRO:HB2	3:L:166:PRO:HB3	1.87	0.56
4:M:374:ASN:O	4:M:414:GLU:HA	2.05	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:446:ILE:HD12	14:U:211:TYR:CG	2.40	0.56
10:Q:134:VAL:CG2	10:Q:149:LEU:HD23	2.34	0.56
10:Q:185:LYS:NZ	10:Q:185:LYS:HB3	2.19	0.56
10:Q:276:ALA:O	10:Q:277:LEU:C	2.48	0.56
14:U:215:VAL:CG1	14:U:220:LEU:CB	2.83	0.56
15:V:96:LEU:HD13	15:V:100:LYS:HZ3	1.71	0.56
16:W:147:GLU:HB2	16:W:149:ASN:ND2	2.20	0.56
6:y:47:LEU:O	6:y:50:GLU:N	2.38	0.56
6:y:406:VAL:O	6:y:407:ILE:C	2.49	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
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
1:I:362:LYS:HG3	1:I:384:ILE:HD12	1.87	0.56
2:H:351:ARG:HD2	2:H:385:ILE:HD11	1.88	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
5:J:114:VAL:CG1	5:J:126:ILE:CG1	2.84	0.56
5:J:339:THR:HA	11:R:207:THR:HG23	1.87	0.56
6:K:100:THR:HG22	6:K:101:ALA:N	2.21	0.56
8:O:374:ILE:HD12	13:T:347:GLU:CD	2.30	0.56
11:R:21:GLN:CB	11:R:286:TRP:CZ3	2.88	0.56
11:R:188:CYS:HB2	11:R:197:ALA:HB2	1.87	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
13:T:251:ILE:C	13:T:253:ALA:H	2.13	0.56
27:b:174:ASP:OD2	27:b:187:ARG:NE	2.38	0.56
24:m:36:VAL:HG13	24:m:172:LEU:HD11	1.88	0.56
32:u:51:LEU:HD11	32:u:110:MET:HB3	1.88	0.56
1:w:164:MET:HG2	1:w:164:MET:O	2.04	0.56
1:w:276:GLU:O	1:w:278:ALA:N	2.39	0.56
5:x:276:LEU:O	5:x:280:LEU:HG	2.05	0.56
6:y:65:GLN:OE1	6:y:69:LYS:NZ	2.38	0.56
3:z:194:ASN:HB3	3:z:228:CYS:SG	2.45	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:192:ASP:HA	4:0:195: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
15:9:96:LEU:HD22	15:9:100:LYS:HZ2	1.68	0.56
1:I:222:VAL:HG22	1:I:349:ARG:HB2	1.87	0.56
1:I:311:GLU:OE1	2:H:243:SER:HB3	2.06	0.56
2:H:85:GLN:O	2:H:89:SER:N	2.23	0.56
2:H:314:ASN:N	2:H:315:ILE:HD12	2.21	0.56
4:M:91:SER:OG	4:M:153:VAL:HG21	2.05	0.56
4:M:407:ALA:HB1	4:M:415:LEU:HD22	1.86	0.56
6:K:52:GLU:CD	7:N:596:ASN:ND2	2.64	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
17:Y:45:ASP:O	17:Y:46:ASP:CB	2.53	0.56
19:B:132:ARG:HG2	25:X:12:SER:HA	1.87	0.56
24:G:225:ASP:HA	24:G:229:VAL:CG2	2.36	0.56
2:v:243:SER:CB	1:w:311:GLU:OE1	2.54	0.56
2:v:283:ALA:HB3	2:v:285:PHE:HE1	1.71	0.56
6:y:92:PHE:O	6:y:127:ASN:CA	2.52	0.56
6:y:121:ARG:C	6:y:123:LEU:H	2.14	0.56
6:y:312:ASN:HD22	6:y:313:ARG:N	2.01	0.56
3:z:342:ASP:O	3:z:374:VAL:HG11	2.06	0.56
8:2:149:THR:O	8:2:151:VAL:N	2.38	0.56
10:4:93:LEU:O	10:4:97:LEU:HG	2.06	0.56
10:4:185:LYS:NZ	10:4:185:LYS:HB3	2.19	0.56
10:4:225:TRP:HZ2	10:4:322:HIS:CD2	2.23	0.56
10:4:282:ARG:HD3	10:4:309:TYR:HE1	1.70	0.56
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
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
2:H:331:LEU:O	2:H:337:LEU:HB2	2.05	0.56
3:L:178:THR:O	3:L:301:ILE:CG2	2.54	0.56
3:L:181:THR:OG1	33:L:401:ADP:O3B	2.23	0.56
3:L:205:ASP:OD2	3:L:210:GLU:CD	2.49	0.56
4:M:204:LEU:HB2	4:M:205:PRO:HD3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:265:ALA:CA	4:M:312:GLU:HG2	2.35	0.56
4:M:268:VAL:O	4:M:272:PHE:HB2	2.06	0.56
4:M:399:VAL:N	4:M:427:VAL:CG2	2.67	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
7:N:42:VAL:HA	7:N:45:ILE:HD12	1.86	0.56
7:N:86:ASP:CG	7:N:87:LEU:H	2.13	0.56
7:N:407:SER:HA	7:N:777:HIS:CD2	2.41	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
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
32:g:214:MET:CE	27:p:144:PRO:HB3	2.29	0.56
19:h:54:LYS:NZ	19:h:66:VAL:O	2.38	0.56
19:h:72:ILE:HG21	19:h:114:LEU:HD11	1.88	0.56
2:v:423:PHE:HB3	1:w:342:ILE:CG2	2.30	0.56
1:w:170:LEU:HD11	1:w:269:GLU:HG3	1.87	0.56
1:w:174:MET:HE1	1:w:270:LEU:CA	2.34	0.56
1:w:187:ILE:HD12	1:w:194:ILE:CD1	2.11	0.56
5:x:85:VAL:HG22	5:x:99:VAL:HG13	1.85	0.56
5:x:151:ILE:HD13	5:x:198:LEU:CB	2.29	0.56
6:y:71:GLU:O	6:y:74:HIS:N	2.37	0.56
6:y:88:VAL:HG12	3:z:79:TYR:CE1	2.40	0.56
3:z:172:LEU:HD12	3:z:180:LYS:HB3	1.87	0.56
3:z:178:THR:O	3:z:301:ILE:CG2	2.54	0.56
3:z:198:VAL:HG12	3:z:203:ILE:HD11	1.74	0.56
3:z:257:LEU:HD13	3:z:261:LEU:CD1	2.36	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
10:4:2:ALA:HB2	10:4:34:ASP:CB	2.35	0.56
10:4:155:ARG:CA	10:4:158:LYS:HG2	2.19	0.56
10:4:276:ALA:O	10:4:277:LEU:C	2.48	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
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
1:I:115:ILE:CD1	1:I:146:PRO:HG3	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:291:GLY:C	1:I:293:LYS:H	2.11	0.56
2:H:150:HIS:C	2:H:151:ILE:HG13	2.31	0.56
2:H:402:LYS:HG3	2:H:403:ILE:H	1.70	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
6:K:341:LYS:HA	6:K:344:ILE:HD12	1.87	0.56
6:K:406:VAL:O	6:K:407:ILE:C	2.49	0.56
7:N:540:GLN:CD	15:V:68:ARG:HH22	2.14	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
9:P:448:LYS:NZ	14:U:154:THR:OG1	2.37	0.56
10:Q:25:ASP:O	10:Q:29:SER:N	2.38	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:282:ARG:HD3	10:Q:309:TYR:CD1	2.41	0.56
12:S:231:LEU:HA	12:S:250:LEU:HD11	1.88	0.56
14:U:275:LEU:C	14:U:275:LEU:HD13	2.31	0.56
19:B:54:LYS:NZ	19:B:66:VAL:O	2.39	0.56
19:h:15:ILE:HD12	20:i:20:GLN:NE2	2.21	0.56
32:u:186:ARG:NE	32:u:202:PRO:HB3	2.17	0.56
2:v:397:ILE:HG13	1:w:214:MET:CE	2.36	0.56
1:w:278:ALA:CB	1:w:279:PRO:CD	2.83	0.56
1:w:390:LEU:CD1	1:w:395:ILE:CD1	2.83	0.56
5:x:30:GLU:C	5:x:34:ILE:HD11	2.31	0.56
4:0:89:LEU:HD21	4:0:126:THR:CB	2.35	0.56
4:0:215:LEU:HD23	4:0:217:ILE:HG23	1.86	0.56
7:1:529:ILE:HG23	7:1:566:LEU:HD22	1.88	0.56
8:2:149:THR:C	8:2:151:VAL:N	2.64	0.56
9:3:438:LEU:O	9:3:442:THR:CG2	2.54	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
13:7:254:GLU:CG	13:7:255:SER:N	2.65	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
1:I:231:GLY:O	1:I:353:PHE:CE2	2.59	0.56
1:I:287:ILE:O	1:I:290:ILE:CG2	2.34	0.56
1:I:398:ILE:C	1:I:419:PHE:HE1	2.14	0.56
2:H:133:ASP:C	2:H:134:ILE:HG13	2.31	0.56
3:L:52:SER:C	3:L:53:VAL:CG2	2.78	0.56
3:L:178:THR:HB	3:L:301:ILE:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:322:LYS:HD3	3:L:326:ILE:CD1	2.33	0.56
5:J:99:VAL:HB	5:J:103:ILE:HD11	1.88	0.56
5:J:246:ILE:O	5:J:291:VAL:HA	2.06	0.56
6:K:47:LEU:O	6:K:50:GLU:N	2.38	0.56
6:K:276:ASP:CA	6:K:282:ASP:OD2	2.54	0.56
7:N:68:PHE:O	7:N:72:GLY:N	2.38	0.56
7:N:610:VAL:CG1	14:U:178:ASP:OD1	2.54	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:4:VAL:O	8:O:8:LEU:CB	2.54	0.56
8:O:364:GLU:HG3	8:O:365:MET:H	1.71	0.56
10:Q:163:LYS:HD2	10:Q:200:ILE:CB	2.33	0.56
11:R:304:TYR:CD2	11:R:334:LEU:HD21	2.39	0.56
11:R:327:VAL:O	11:R:330:ILE:N	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
23:F:18:GLU:OE2	4:0:431:LYS:CB	2.53	0.56
19:h:49:VAL:HG22	19:h:219:VAL:HG23	1.88	0.56
24:m:33:SER:OG	24:m:62:LYS:CE	2.54	0.56
24:m:239:ARG:NH1	24:m:239:ARG:O	2.34	0.56
2:v:90:GLU:C	2:v:93:LEU:HB2	2.31	0.56
2:v:402:LYS:HG3	2:v:403:ILE:H	1.70	0.56
1:w:180:PRO:O	1:w:181:GLN:HB2	2.06	0.56
1:w:231:GLY:O	1:w:353:PHE:CE2	2.59	0.56
1:w:361:LYS:HA	1:w:364:ILE:HD12	1.87	0.56
5:x:55:LYS:O	5:x:59:LEU:N	2.36	0.56
5:x:175:PHE:CD1	5:x:175:PHE:N	2.74	0.56
5:x:286:THR:O	5:x:287:LYS:CB	2.50	0.56
3:z:269:THR:O	3:z:270:LEU:C	2.48	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
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
10:4:7:VAL:O	10:4:11:ARG:N	2.28	0.56
10:4:32:LYS:CB	10:4:33:ARG:CB	2.84	0.56
10:4:163:LYS:HD2	10:4:200:ILE:CB	2.33	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
1:I:151:LEU:O	1:I:159:VAL:HA	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:223:ARG:O	3:L:226:GLN:HG2	2.06	0.55
5:J:30:GLU:C	5:J:34:ILE:HD11	2.31	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
7:N:748:LEU:HB2	7:N:759:SER:HB3	1.88	0.55
8:O:363:MET:HE3	15:V:307:VAL:HG21	1.87	0.55
9:P:150:ALA:HB2	9:P:165:ILE:CD1	2.32	0.55
10:Q:84:LYS:HA	20:i:227:ASP:OD2	2.05	0.55
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
32:g:51:LEU:HD11	32:g:110:MET:HB3	1.88	0.55
2:v:173:THR:HG22	2:v:174:TYR:N	2.20	0.55
2:v:209:PRO:HG2	2:v:339:ARG:CG	2.25	0.55
1:w:160:ILE:HG22	1:w:160:ILE:O	2.05	0.55
1:w:220:LYS:HG2	1:w:345:GLY:O	2.07	0.55
1:w:408:ARG:NH1	5:x:160:GLU:OE2	2.40	0.55
5:x:222:LYS:O	5:x:222:LYS:HD3	2.07	0.55
6:y:52:GLU:CD	7:1:596:ASN:ND2	2.64	0.55
6:y:130:VAL:C	6:y:143:LEU:HD23	2.30	0.55
6:y:228:ILE:HG22	6:y:230:VAL:HG23	1.87	0.55
6:y:355:SER:OG	6:y:358:VAL:CG2	2.54	0.55
3:z:170:CYS:HB3	3:z:299:ILE:HD12	1.87	0.55
4:0:91:SER:OG	4:0:153: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
17:AB:61:GLU:O	17:AB:65:TYR:N	2.37	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
2:H:161:VAL:O	2:H:263:MET:HE1	2.06	0.55
3:L:182:LEU:CD1	3:L:185:ARG:HH11	2.19	0.55
3:L:342:ASP:O	3:L:374:VAL:HG11	2.06	0.55
5:J:46:GLN:HG2	6:K:61:ILE:HG21	1.88	0.55
5:J:151:ILE:HG21	5:J:154:LEU:HD12	1.88	0.55
6:K:133:HIS:HB3	6:K:138:ALA:H	1.71	0.55
10:Q:85:ALA:C	10:Q:89:VAL:HG23	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
20:i:204:GLU:OE2	20:i:226:LYS:CD	2.54	0.55
2:v:245:LEU:HD11	2:v:280:ILE:CD1	2.22	0.55
2:v:327:LEU:HD12	2:v:331:LEU:CD1	2.36	0.55
2:v:422:LYS:HG3	2:v:423:PHE:CE1	2.41	0.55
1:w:288:ASP:HB3	1:w:331:THR:HG21	1.81	0.55
5:x:114:VAL:CG1	5:x:126:ILE:CG1	2.84	0.55
6:y:160:PRO:CB	6:y:217:LYS:HA	2.36	0.55
6:y:205:TYR:CB	6:y:311:THR:O	2.54	0.55
6:y:276:ASP:CA	6:y:282:ASP:OD2	2.54	0.55
3:z:72:LYS:HA	3:z:78:ARG:HA	1.87	0.55
3:z:99:ALA:CB	3:z:109:ARG:O	2.53	0.55
7:1:540:GLN:CD	15:9:68:ARG:HH22	2.14	0.55
9:3:68:VAL:C	9:3:71:VAL:HG22	2.30	0.55
9:3:317:TRP:HA	9:3:317:TRP:HE3	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
18:AC:300:ARG:CB	18:AC:787:LEU:CB	2.85	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:313:LEU:HD23	2:H:276:GLU:OE2	2.04	0.55
1:I:340:ALA:O	1:I:346:ARG:HD2	2.06	0.55
1:I:346:ARG:NH2	33:H:501:ADP:O2B	2.38	0.55
2:H:111:TYR:CD1	2:H:125:LEU:HD23	2.30	0.55
3:L:69:PHE:N	3:L:81:VAL:O	2.36	0.55
3:L:238:ILE:HD11	3:L:257:LEU:HA	0.56	0.55
4:M:288:LEU:CD2	4:M:342:LEU:HD13	2.15	0.55
4:M:427:VAL:O	4:M:427:VAL:HG12	2.06	0.55
5:J:211:PHE:CZ	5:J:247:PHE:HB2	2.41	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
12:S:82:LEU:HA	12:S:85:ALA:HB2	1.88	0.55
12:S:307:ARG:HH11	12:S:307:ARG:HG3	1.71	0.55
12:S:333:ILE:HD11	12:S:357:LEU:HD13	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
17:Y:64:GLY:O	17:Y:68:GLU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:126:ILE:O	18:Z:130:ALA:N	2.39	0.55
31:f:72:LEU:HD21	31:f:88:ILE:HD11	1.88	0.55
20:i:198:PHE:CD2	20:i:202:MET:CB	2.89	0.55
2:v:157:ILE:HG22	2:v:157:ILE:O	2.06	0.55
2:v:243:SER:HB3	1:w:311:GLU:OE1	2.06	0.55
5:x:85:VAL:HG21	5:x:123:LEU:HD11	1.86	0.55
3:z:182:LEU:CD1	3:z:185:ARG:HH11	2.19	0.55
9:3:63:THR:OG1	9:3:102:ALA:HB1	2.06	0.55
9:3:406:VAL:CG1	9:3:407:ASP:N	2.69	0.55
13:7:329:THR:N	13:7:331:PRO:HD2	2.22	0.55
13:7:332:SER:OG	15:9:303:MET:C	2.43	0.55
14:8:47:VAL:CG1	14:8:48:LEU:N	2.69	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:258:ARG:CD	2:H:305:GLN:NE2	2.57	0.55
3:L:72:LYS:HA	3:L:78:ARG:HA	1.87	0.55
3:L:365:GLU:C	3:L:367:PHE:H	2.13	0.55
4:M:249:LEU:CB	4:M:283:ILE:HA	2.35	0.55
4:M:409:ARG:C	4:M:411:GLY:N	2.64	0.55
5:J:39:SER:HB3	6:K:54:LEU:HD13	1.87	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
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
9:P:453:HIS:O	9:P:454:ASN:CG	2.49	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
2:v:397:ILE:HG13	1:w:214:MET:HE2	1.88	0.55
1:w:222:VAL:HG22	1:w:349:ARG:HB2	1.87	0.55
5:x:39:SER:HB3	6:y:54:LEU:HD13	1.87	0.55
5:x:154:LEU:CD2	5:x:317:PHE:CE2	2.90	0.55
6:y:119:ILE:HD12	6:y:119:ILE:N	2.21	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
4:0:409:ARG:C	4:0:411:GLY:N	2.64	0.55
8:2:342:ASP:CG	8:2:343:LEU:N	2.62	0.55
9:3:290:ILE:HG22	9:3:296:LEU:HD22	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
14:8:175:LEU:C	14:8:177:ARG:N	2.63	0.55
15:9:237:HIS:C	15:9:237:HIS:HD2	2.11	0.55
18:AC:336:GLU:O	18:AC:340:MET:N	2.40	0.55
1:I:214:MET:CE	2:H:397:ILE:HG13	2.36	0.55
1:I:304:GLU:OE2	1:I:304:GLU:HA	2.07	0.55
1:I:423:LYS:HG3	1:I:427:LEU:CD1	2.26	0.55
2:H:327:LEU:HD12	2:H:331:LEU:CD1	2.36	0.55
3:L:243:PHE:C	3:L:244:SER:OG	2.49	0.55
3:L:257:LEU:HD13	3:L:261:LEU:CD1	2.36	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
5:J:222:LYS:HD3	5:J:222:LYS:O	2.07	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:90:LEU:HD23	9:P:90:LEU:C	2.32	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
10:Q:320:SER:C	10:Q:322:HIS:N	2.63	0.55
11:R:280:GLN:HE21	17:Y:52:PHE:HB2	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
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
28:q:65:GLN:OE1	29:r:86:ARG:NH2	2.40	0.55
2:v:88:GLN:C	2:v:91:GLN:HB2	2.30	0.55
1:w:151:LEU:O	1:w:160:ILE:N	2.34	0.55
5:x:211:PHE:CZ	5:x:247:PHE:HB2	2.41	0.55
5:x:235:PHE:CD1	5:x:276:LEU:CD2	2.89	0.55
6:y:257:ASN:O	6:y:258:ALA:HB2	2.05	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
9:3:390:GLU:CD	9:3:408:ARG:NH2	2.64	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
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
12:6:506:GLU:O	12:6:507:SER:O	2.24	0.55

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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	0.55
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
2:H:109:PRO:HG2	2:H:110:LYS:H	1.72	0.55
2:H:114:ASN:HD22	2:H:114:ASN:N	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:CD1	5:J:175:PHE:N	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:85:GLU:O	9:P:89:LEU:HG	2.07	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
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
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
16:W:99:HIS:O	16:W:101:GLN:NE2	2.40	0.55
21:D:143:TYR:CE2	22:E:57:ARG:NH1	2.75	0.55
2:v:314:ASN:N	2:v:315:ILE:HD12	2.21	0.55
1:w:304:GLU:OE2	1:w:304:GLU:HA	2.07	0.55
5:x:71:SER:HB2	6:y:112:TYR:HB3	1.89	0.55
5:x:137:LEU:CB	5:x:224:ILE:CG1	2.84	0.55
6:y:162:VAL:HG21	6:y:217:LYS:HD3	1.89	0.55
6:y:374:ASP:O	6:y:377:SER:N	2.39	0.55
3:z:200:SER:CB	3:z:234:GLU:O	2.48	0.55
3:z:219:PHE:O	3:z:223:ARG:N	2.33	0.55
3:z:219:PHE:O	3:z:223:ARG:CB	2.54	0.55
3:z:360:ASP:OD1	3:z:361:PHE:N	2.40	0.55
4:0:59:VAL:O	4:0:63: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
1:I:309:MET:CE	1:I:341:LEU:HD11	2.37	0.55
2:H:99:THR:HG21	2:H:142:VAL:HG21	0.65	0.55
2:H:272:ILE:CD1	2:H:315:ILE:CG2	2.85	0.55
3:L:49:ALA:HB1	4:M:136:VAL:CG1	2.33	0.55
3:L:257:LEU:HD13	3:L:261:LEU:HD11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:360:ASP:OD1	3:L:361:PHE:N	2.40	0.55
4:M:254:PRO:O	4:M:257:VAL:HB	2.06	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
7:N:236:LEU:HD11	7:N:245:ALA:HB2	1.88	0.55
8:O:370:GLN:C	13:T:340:ILE:CG2	2.80	0.55
9:P:406:VAL:CG1	9:P:407:ASP:N	2.69	0.55
12:S:348:PHE:CZ	12:S:361:PHE:HA	2.40	0.55
14:U:79:TYR:CE1	14:U:91:ILE:HG12	2.41	0.55
14:U:175:LEU:C	14:U:177:ARG:N	2.63	0.55
26:a:25:TYR:CE1	27:b:132:LEU:HD22	2.42	0.55
24:m:196:ARG:CD	24:m:239:ARG:NE	2.68	0.55
1:w:401:GLU:CG	1:w:422:SER:CA	2.79	0.55
6:y:385:LEU:CD2	6:y:401:LYS:HG3	2.37	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
1:I:135:ILE:HD11	1:I:139:VAL:HG23	1.89	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
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: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
4:M:153:VAL:CG1	4:M:158:TYR:CA	2.79	0.55
5:J:111:ASN:O	5:J:130:LYS:HG2	2.06	0.55
6:K:116:LEU:C	6:K:119:ILE:CD1	2.66	0.55
6:K:312:ASN:ND2	6:K:312:ASN:H	2.02	0.55
8:O:104:VAL:O	8:O:105:LYS:HB2	2.06	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
19:B:6:SER:HB2	19:B:11:ARG:HH11	1.71	0.55
19:h:191:PHE:HE1	19:h:219:VAL:HG21	1.72	0.55
2:v:88:GLN:HA	2:v:91:GLN:CG	2.37	0.55
1:w:135:ILE:HD11	1:w:139:VAL:HG23	1.89	0.55
1:w:407:LEU:HD22	5:x:174:LEU:HD13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:51:LEU:HA	6:y:54:LEU:CD2	2.37	0.55
6:y:100:THR:HG22	6:y:101:ALA:N	2.21	0.55
6:y:151:ILE:CD1	6:y:229:ARG:HH11	2.20	0.55
3:z:132:TYR:CE2	3:z:146:ARG:NH2	2.75	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
4:0:426:GLU:C	4:0:428:GLN:N	2.65	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
9:3:446:ILE:HD12	14:8:211:TYR:CG	2.40	0.55
11:5:286:TRP:CE2	11:5:287:LEU:CD2	2.90	0.55
12:6:318:GLN:O	12:6:319:HIS:C	2.50	0.55
14:8:101:LEU:O	14:8:102:HIS:CG	2.59	0.55
14:8:223:ASN:C	14:8:225:GLN:N	2.63	0.55
1:I:180:PRO:O	1:I:181:GLN:HB2	2.06	0.55
2:H:157:ILE:HG22	2:H:157:ILE:O	2.06	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
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
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
9:P:390:GLU:CD	9:P:408:ARG:NH2	2.64	0.55
9:P:444:HIS:HE1	14:U:138:TYR:CZ	2.04	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
28:q:48:ARG:HA	28:q:190:ILE:HD12	1.89	0.55
28:q:125:ASP:HB2	28:q:129:CYS:H	1.71	0.55
2:v:104:ALA:O	2:v:105:ASP:OD1	2.25	0.55
1:w:231:GLY:C	1:w:353:PHE:HE2	2.15	0.55
1:w:404:LEU:HD13	5:x:313:ARG:NH1	2.21	0.55
6:y:77:GLU:O	6:y:80:LYS:HB2	2.07	0.55
6:y:205:TYR:HE1	6:y:332:GLU:CB	2.20	0.55
6:y:360:LEU:CD1	6:y:363:TYR:CD2	2.83	0.55
3:z:205:ASP:HB3	3:z:210:GLU:HG2	1.82	0.55
3:z:253:ILE:O	3:z:254:GLN:C	2.50	0.55
3:z:277:MET:CE	3:z:289:LEU:HD11	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:268:VAL:O	4:0:272: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
11:5:379:ARG:HH11	11:5:379:ARG:CG	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
1:I:356:PRO:HB2	1:I:361:LYS:CG	2.37	0.55
3:L:367:PHE:O	3:L:371:VAL:HG23	2.07	0.55
5:J:47:ALA:O	5:J:48:GLN:C	2.50	0.55
5:J:154:LEU:CD2	5:J:317:PHE:CE2	2.90	0.55
5:J:222:LYS:HD3	5:J:222:LYS:C	2.32	0.55
6:K:77:GLU:O	6:K:80:LYS:HB2	2.07	0.55
6:K:285:VAL:HA	6:K:288:ILE:HD12	1.87	0.55
11:R:228:MET:HE1	11:R:263:LEU:CB	2.37	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
16:W:63:THR:CG2	16:W:64:LEU:N	2.64	0.55
18:Z:408:LEU:HA	18:Z:443:GLY:HA2	1.88	0.55
26:a:30:VAL:CG2	32:u:212:ALA:HA	2.36	0.55
19:h:6:SER:HB2	19:h:11:ARG:HH11	1.70	0.55
2:v:154:PRO:HB2	2:v:155:PRO:HD3	1.89	0.55
2:v:426:THR:N	2:v:427:PRO:CD	2.70	0.55
4:0:88:TYR:OH	4:0:161:LEU:HB3	2.07	0.55
4:0:348:LEU:HD12	4:0:348:LEU:H	1.71	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
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
3:L:72:LYS:HB2	3:L:78:ARG:HG3	1.89	0.54
3:L:238:ILE:CG1	3:L:257:LEU:HA	2.31	0.54
3:L:313:LEU:HD23	3:L:332:VAL:CG2	2.37	0.54
6:K:392:TYR:O	6:K:393:ILE:CB	2.53	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
29:d:137:PHE:HB3	30:s:133:VAL:HG21	1.89	0.54
30:e:133:VAL:HG21	29:r:137:PHE:HB3	1.88	0.54
1:w:251:VAL:HB	1:w:254:GLU:CD	2.32	0.54
1:w:309:MET:CE	1:w:341:LEU:HD11	2.37	0.54
6:y:90:GLY:C	6:y:130:VAL:HG23	2.30	0.54
6:y:93:LEU:HG	6:y:94:GLU:N	2.22	0.54
6:y:372:GLY:CA	33:y:501:ADP:H8	2.19	0.54
3:z:195:PHE:CZ	3:z:229:ILE:HG13	2.38	0.54
4:0:373:MET:HE3	4:0:415:LEU:CD1	2.27	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
13:7:346:LEU:HD21	15:9:292:MET:HE2	1.88	0.54
16:AA:39:SER:O	16:AA:43:SER:N	2.40	0.54
1:I:97:SER:O	1:I:101:ASP:N	2.23	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:343:ARG:CZ	1:I:346:ARG:HH21	2.14	0.54
2:H:283:ALA:HB3	2:H:285:PHE:HE1	1.71	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:274:LEU:HD22	4:M:274:LEU:O	2.07	0.54
6:K:121:ARG:C	6:K:123:LEU:H	2.14	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
9:P:76:GLU:CG	9:P:77:ALA:H	2.19	0.54
9:P:445:LEU:HB3	14:U:226:ILE:HD11	1.88	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
16:W:29:GLN:O	16:W:33:VAL:HG23	2.08	0.54
16:W:131:LEU:HD11	16:W:156:PHE:HZ	1.72	0.54
18:Z:286:LYS:HA	18:Z:328:SER:O	2.08	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:49:ALA:HB2	23:F:217:LEU:HD23	1.89	0.54
23:F:232:GLU:OE2	23:F:232:GLU:N	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:f:28:ARG:NE	31:f:191:ASP:OD2	2.28	0.54
24:m:88:MET:HE3	24:m:112:ILE:HD11	1.89	0.54
32:u:51:LEU:HD13	32:u:112:ILE:HG12	1.88	0.54
2:v:109:PRO:HG2	2:v:110:LYS:H	1.72	0.54
2:v:150:HIS:C	2:v:151:ILE:HG13	2.31	0.54
2:v:215:PHE:CB	2:v:324:PRO:HB3	2.37	0.54
1:w:111:THR:O	1:w:124:SER:N	2.40	0.54
6:y:57:GLN:C	6:y:61:ILE:HG12	2.30	0.54
6:y:205:TYR:HD2	6:y:314:ALA:HB2	1.71	0.54
6:y:366:ARG:HD2	6:y:403:TYR:CE2	2.36	0.54
3:z:99:ALA:N	3:z:109:ARG:O	2.34	0.54
3:z:125:GLU:O	3:z:127:PRO:N	2.40	0.54
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
9:3:425:LEU:HD13	15:9:234:TYR:CE2	2.42	0.54
10:4:320:SER:C	10:4:322:HIS:N	2.63	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
16:AA:171:VAL:CB	16:AA:186:SER:HB2	2.37	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
2:H:120:LYS:HB2	4:M:90:VAL:HG21	1.90	0.54
2:H:365:GLU:CD	2:H:368:ILE:HG23	2.32	0.54
3:L:176:PRO:C	4:M:344:ARG:HD3	2.31	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:205:TYR:CE1	6:K:332:GLU:HG2	2.43	0.54
6:K:310:ALA:O	6:K:311:THR:CG2	2.56	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:573:ASP:CG	7:N:575:ASP:N	2.66	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:83:ALA:HB2	20:i:228:TYR:CE2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:93:LEU:O	10:Q:97:LEU:HG	2.06	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
12:S:298:ILE:HG21	13:T:213:GLU:CB	2.38	0.54
14:U:201:LEU:HD21	15:V:309:PHE:HE1	1.72	0.54
15:V:64:ASP:CA	15:V:139:ARG:HH12	2.20	0.54
15:V:97:ASP:OD1	15:V:98:MET:N	2.41	0.54
19:h:100:ASN:ND2	26:o:61:TYR:OH	2.40	0.54
19:h:159:TYR:CD1	19:h:160:TYR:N	2.75	0.54
2:v:188:ARG:O	2:v:192:GLU:HB3	2.08	0.54
1:w:115:ILE:CG2	1:w:141:LYS:HE3	2.38	0.54
1:w:122:ILE:HD12	1:w:131:HIS:O	2.07	0.54
1:w:171:VAL:HG22	1:w:273:VAL:HG13	1.88	0.54
1:w:230:THR:CB	1:w:353:PHE:CB	2.79	0.54
6:y:128:ALA:HB3	6:y:142:VAL:HG13	1.80	0.54
6:y:283:ARG:O	6:y:287:ARG:CG	2.55	0.54
6:y:346:SER:O	6:y:350:SER:HB3	2.08	0.54
6:y:392:TYR:O	6:y:393:ILE:CB	2.53	0.54
3:z:171:LEU:HA	3:z:277:MET:O	2.08	0.54
3:z:223:ARG:O	3:z:226:GLN:HG2	2.06	0.54
3:z:238:ILE:HD11	3:z:257:LEU:HA	0.56	0.54
3:z:255:ARG:O	3:z:259:GLU:N	2.36	0.54
3:z:331:ILE:O	3:z:335:SER:OG	2.11	0.54
4:0:249:LEU:HB3	4:0:283:ILE:CA	2.35	0.54
10:4:84:LYS:HZ1	10:4:88:LEU:CD2	2.16	0.54
10:4:122:ARG:C	10:4:124:PHE:H	2.13	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
14:8:34:ARG:HD2	14:8:96:HIS:HB2	1.89	0.54
14:8:275:LEU:HD13	14:8:275:LEU:O	2.08	0.54
15:9:255:TYR:HA	15:9:280:PRO:CG	2.35	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
1:I:276:GLU:C	1:I:278:ALA:N	2.61	0.54
2:H:246:VAL:HG21	2:H:295:VAL:HG13	1.89	0.54
3:L:109:ARG:HH11	3:L:109:ARG:CB	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
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:185:LEU:CD2	6:K:259:PRO:HB3	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:19:ILE:HG21	11:R:53:TYR:OH	2.08	0.54
11:R:185:GLY:HA3	11:R:201:PHE:CE2	2.42	0.54
12:S:317:PRO:CG	17:Y:7:PRO:CB	2.86	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
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
25:X:86:SER:O	25:X:90:ILE:HD12	2.07	0.54
2:v:215:PHE:HB2	2:v:324:PRO:CG	2.37	0.54
1:w:283:PHE:CE2	1:w:285:ASP:HB2	2.43	0.54
5:x:118:ASN:ND2	5:x:119:ASP:N	2.15	0.54
5:x:214:VAL:HG22	5:x:234:LEU:HD11	1.88	0.54
6:y:277:ALA:O	6:y:278:GLN:HB2	2.07	0.54
3:z:65:THR:OG1	3:z:68:LYS:HB2	2.07	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
9:3:90:LEU:HD23	9:3:90:LEU:C	2.32	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
12:6:476:PHE:C	12:6:480:ILE:HD13	2.32	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:188:ARG:O	2:H:192:GLU:HB3	2.08	0.54
3:L:338:PHE:HE1	3:L:375:ALA:HA	1.72	0.54
6:K:57:GLN:C	6:K:61:ILE:HG12	2.30	0.54
6:K:385:LEU:CD2	6:K:401:LYS:HG3	2.37	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:369:THR:HG23	11:R:370:ILE:N	2.21	0.54
12:S:483:CYS:SG	14:U:265:LEU:HA	2.48	0.54
15:V:85:GLU:OE1	15:V:85:GLU:N	2.33	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
18:Z:269:ALA:HA	18:Z:277:LEU:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:662:MET:O	18:Z:664:GLU:N	2.34	0.54
24:G:36:VAL:HG13	24:G:172:LEU:HD11	1.89	0.54
25:X:47:PHE:HB2	25:X:214:SER:HB2	1.90	0.54
2:v:90:GLU:CA	2:v:93:LEU:HB2	2.37	0.54
1:w:123:VAL:O	1:w:130:GLU:HG2	2.08	0.54
1:w:398:ILE:C	1:w:419:PHE:HE1	2.14	0.54
5:x:300:ILE:HG13	5:x:301:LEU:H	1.73	0.54
5:x:320:PRO:CD	5:x:354:ALA:O	2.55	0.54
3:z:257:LEU:HD13	3:z:261:LEU:HD11	1.88	0.54
4:0:187:ASP:C	4:0:368:ILE:HD13	2.28	0.54
7:1:540:GLN:CG	15:9:68:ARG:HH22	2.21	0.54
7:1:748:LEU:HD13	7:1:759:SER:HB2	1.89	0.54
9:3:453:HIS:O	9:3:454:ASN:CG	2.49	0.54
10:4:244:SER:N	10:4:245:PRO:HD3	2.23	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
11:5:188:CYS:HB2	11:5:197:ALA:HB2	1.87	0.54
12:6:224:LEU:O	12:6:228:ARG:CB	2.54	0.54
12:6:463:MET:C	12:6:465:ASP:H	2.16	0.54
1:I:231:GLY:C	1:I:353:PHE:HE2	2.15	0.54
1:I:251:VAL:HB	1:I:254:GLU:CD	2.32	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
2:H:283:ALA:O	2:H:296:GLN:OE1	2.26	0.54
2:H:348:LEU:CD1	23:l:175:GLU:OE1	2.43	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
6:K:92:PHE:O	6:K:127:ASN:CA	2.52	0.54
6:K:119:ILE:HD12	6:K:119:ILE:N	2.21	0.54
6:K:151:ILE:CD1	6:K:229:ARG:HH11	2.20	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:HD13	14:U:275:LEU:O	2.08	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
19:B:107:TYR:HD1	19:B:107:TYR:O	1.89	0.54
23:F:20:ARG:HD2	4:0:435:LEU:HD13	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:c:15:LYS:NZ	28:c:134:ASP:OD1	2.40	0.54
31:f:187:VAL:HG21	27:p:24:MET:HE3	1.90	0.54
32:g:99:ARG:NH1	32:g:104:ASN:O	2.37	0.54
29:r:80:ALA:O	29:r:84:THR:HG23	2.08	0.54
2:v:272:ILE:CD1	2:v:315:ILE:CG2	2.85	0.54
2:v:283:ALA:O	2:v:296:GLN:OE1	2.26	0.54
1:w:181:GLN:NE2	1:w:181:GLN:HA	2.22	0.54
5:x:246:ILE:O	5:x:291:VAL:HA	2.06	0.54
6:y:185:LEU:CD2	6:y:259:PRO:HB3	2.38	0.54
6:y:267:ILE:HG13	6:y:311:THR:HG21	1.89	0.54
3:z:367:PHE:O	3:z:371:VAL:HG23	2.07	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
4:0:310:MET:HE1	4:0:339:ASP:CB	2.32	0.54
9:3:317:TRP:CE3	9:3:320:LEU:HB3	2.42	0.54
9:3:374:THR:HG22	9:3:375:MET:N	2.11	0.54
11:5:50:MET:HE2	11:5:53:TYR:CD2	2.41	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
1:I:227:PRO:HG2	1:I:355:LEU:CD1	2.32	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
3:L:65:THR:OG1	3:L:68:LYS:HB2	2.07	0.54
3:L:211:SER:HB3	3:L:256:THR:HG21	1.90	0.54
4:M:90:VAL:HG22	4:M:127:SER:OG	2.05	0.54
5:J:39:SER:OG	6:K:54:LEU:HD13	2.08	0.54
5:J:248:MET:HE1	5:J:291:VAL:CG2	2.38	0.54
6:K:93:LEU:HG	6:K:94:GLU:N	2.22	0.54
6:K:225:ALA:HB2	6:K:259:PRO:O	1.98	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:24:THR:O	16:W:28:ALA:N	2.29	0.54
16:W:100:ARG:NE	16:W:105:HIS:O	2.25	0.54
18:Z:234:THR:O	18:Z:237:VAL:N	2.41	0.54
29:d:80:ALA:O	29:d:84:THR:HG23	2.07	0.54
19:h:25:VAL:CG1	19:h:157:ALA:HB2	2.37	0.54
20:i:67:ILE:HD11	20:i:73:LEU:HD12	1.88	0.54
28:q:15:LYS:NZ	28:q:134:ASP:OD1	2.41	0.54
2:v:95:VAL:CG1	2:v:96:ALA:H	2.19	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:218:PRO:HG3	2:v:429:TYR:CD2	2.42	0.54
2:v:246:VAL:HG21	2:v:295:VAL:HG13	1.89	0.54
2:v:299:MET:O	2:v:303:ILE:HG13	2.08	0.54
2:v:356:LYS:O	2:v:360:ARG:CB	2.55	0.54
2:v:365:GLU:CD	2:v:368:ILE:HG23	2.32	0.54
1:w:329:MET:SD	1:w:347:ILE:HD11	2.48	0.54
1:w:340:ALA:O	1:w:346:ARG:HD2	2.06	0.54
6:y:106:THR:HG1	3:z:77:PRO:HB2	1.73	0.54
6:y:318:ASP:OD1	6:y:319:PRO:HD2	2.06	0.54
3:z:244:SER:HA	3:z:245:GLU:OE2	2.08	0.54
3:z:313:LEU:HD23	3:z:332:VAL:CG2	2.37	0.54
4:0:249:LEU:CD2	4:0:283:ILE:CG1	2.43	0.54
7:1:573:ASP:CG	7:1:575:ASP:N	2.66	0.54
8:2:4:VAL:HG13	8:2:26:GLU:CD	2.28	0.54
10:4:85:ALA:C	10:4:89:VAL:HG23	2.31	0.54
10:4:179:ALA:C	10:4:181:SER:H	2.16	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
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
2:H:204:LEU:HD21	2:H:206:ILE:HG21	1.90	0.54
5:J:128:PRO:O	5:J:129:ASN:HB2	2.08	0.54
6:K:90:GLY:N	6:K:130:VAL:O	2.33	0.54
6:K:103:VAL:HG11	6:K:139:LEU:CD2	2.33	0.54
6:K:151:ILE:CG2	6:K:152:MET:N	2.65	0.54
6:K:167:ILE:CG1	6:K:214:MET:CE	2.82	0.54
6:K:213:THR:OG1	33:K:501:ADP:O1B	2.17	0.54
8:O:4:VAL:HG23	8:O:26:GLU:CD	2.28	0.54
9:P:290:ILE:HG22	9:P:296:LEU:HD22	1.89	0.54
10:Q:415:TYR:CE1	11:R:383:LEU:HB3	2.42	0.54
10:Q:418:ALA:HB2	11:R:387:ILE:HD11	1.90	0.54
11:R:229:ILE:HG12	11:R:295:TYR:OH	2.08	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
12:S:318:GLN:O	12:S:319:HIS:C	2.50	0.54
13:T:330:ILE:HG23	13:T:334:GLU:CG	2.34	0.54
13:T:346:LEU:HD21	15:V:292:MET:HE2	1.88	0.54
14:U:240:VAL:CB	14:U:242:LEU:CD2	2.84	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:V:116:PRO:O	15:V:118:PHE:CD1	2.61	0.54
15:V:248:MET:CE	15:V:284:LEU:HD23	2.35	0.54
24:G:225:ASP:HA	24:G:229:VAL:HG23	1.90	0.54
31:f:191:ASP:O	31:f:212:LYS:NZ	2.41	0.54
25:n:47:PHE:HB2	25:n:214:SER:HB2	1.90	0.54
2:v:376:LEU:N	2:v:376:LEU:HD23	2.23	0.54
1:w:97:SER:O	1:w:101:ASP:N	2.23	0.54
5:x:30:GLU:HG3	6:y:44:TYR:HB2	1.89	0.54
5:x:88:LYS:HB2	5:x:94:LYS:CG	2.37	0.54
6:y:64:GLU:O	6:y:68:LEU:CG	2.55	0.54
6:y:88:VAL:HG12	3:z:79:TYR:CD1	2.42	0.54
3:z:47:LEU:O	3:z:50:LEU:HB2	2.06	0.54
3:z:300:HIS:CD2	3:z:301:ILE:N	2.75	0.54
3:z:361:PHE:H	3:z:361:PHE:HD1	1.56	0.54
4:0:137:ILE:HG22	4:0:140: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
9:3:85:GLU:O	9:3:89:LEU:HG	2.07	0.54
9:3:444:HIS:HE1	14:8:138:TYR:CZ	2.04	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
1:I:107:MET:HE3	1:I:160:ILE:CG1	2.37	0.54
1:I:183:THR:CA	1:I:241:ASN:HD22	2.14	0.54
2:H:157:ILE:HG22	2:H:161:VAL:HB	1.89	0.54
3:L:194:ASN:CG	3:L:228:CYS:SG	2.91	0.54
4:M:261:ILE:O	4:M:261:ILE:HG12	2.08	0.54
6:K:70:LYS:HE2	14:U:182:THR:CB	2.38	0.54
6:K:119:ILE:CD1	6:K:119:ILE:H	2.21	0.54
6:K:128:ALA:HB3	6:K:142:VAL:HG13	1.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:138:TYR:HD1	14:U:157:HIS:HA	1.72	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
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
22:k:79:ASP:OD2	22:k:125:ARG:NH2	2.41	0.54
25:n:86:SER:O	25:n:90:ILE:HD12	2.08	0.54
2:v:351:ARG:NH2	2:v:377:CYS:O	2.39	0.54
1:w:255:LEU:HD11	1:w:267:VAL:CG2	2.37	0.54
5:x:39:SER:OG	6:y:54:LEU:HD13	2.08	0.54
5:x:115:ALA:CB	5:x:125:LYS:HG2	2.38	0.54
6:y:273:LYS:HG3	6:y:274:ARG:N	2.15	0.54
3:z:194:ASN:CG	3:z:228:CYS:SG	2.91	0.54
3:z:211:SER:HB3	3:z:256:THR:HG21	1.90	0.54
3:z:258:MET:HA	3:z:261:LEU:HD13	1.84	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
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
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:258:ARG:HD2	2:H:305:GLN:HE22	1.68	0.54
2:H:277:ILE:HD12	2:H:278:ASP:OD1	2.08	0.54
3:L:65:THR:OG1	3:L:68:LYS:CG	2.56	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:264:MET:HG2	3:L:275:MET:HE2	1.89	0.54
4:M:168:TYR:HD2	4:M:173:LYS:HZ3	1.49	0.54
4:M:380:ASN:HB3	4:M:383:GLU:OE1	2.08	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
9:P:168:GLU:O	9:P:169:LEU:C	2.44	0.54
10:Q:82:LYS:CG	10:Q:120:GLU:OE2	2.56	0.54
10:Q:242:ILE:CG1	10:Q:243:ASP:H	2.16	0.54
11:R:289:ALA:CB	11:R:290:PRO:CD	2.84	0.54
17:Y:61:GLU:O	17:Y:65:TYR:N	2.37	0.54
19:B:191:PHE:CE1	19:B:219:VAL:HG21	2.43	0.54
21:j:62:SER:OG	21:j:63:GLU:N	2.41	0.54
2:v:111:TYR:CZ	2:v:134:ILE:HD12	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:209:PRO:CB	2:v:339:ARG:HG3	2.37	0.54
1:w:204:PRO:O	1:w:208:PRO:CG	2.56	0.54
1:w:342:ILE:O	1:w:343:ARG:C	2.51	0.54
6:y:205:TYR:CE1	6:y:332:GLU:HG2	2.43	0.54
3:z:327:ASP:OD1	3:z:330:ALA:N	2.41	0.54
3:z:353:PHE:C	3:z:356:ARG:HB2	2.33	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
1:I:303:ARG:O	1:I:307:ARG:HD3	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
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
6:K:273:LYS:HG3	6:K:274:ARG:N	2.15	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
27:b:29:LYS:HE3	31:t:185:ARG:NH2	2.23	0.53
28:c:48:ARG:HA	28:c:190:ILE:HD12	1.91	0.53
20:i:173:LEU:HD21	20:i:193:THR:HG21	1.89	0.53
26:o:25:TYR:CE1	27:p:132:LEU:HD22	2.44	0.53
2:v:133:ASP:C	2:v:134:ILE:HG13	2.31	0.53
2:v:188:ARG:HD2	2:v:192:GLU:OE1	2.08	0.53
2:v:386:ARG:HD2	2:v:386:ARG:O	2.08	0.53
1:w:116:ILE:HG22	1:w:117:ASP:OD1	2.08	0.53
5:x:75:GLU:HB3	5:x:88:LYS:O	2.08	0.53
5:x:151:ILE:HG21	5:x:154:LEU:HD12	1.88	0.53
5:x:248:MET:HE1	5:x:291:VAL:CG2	2.38	0.53
5:x:381:GLU:CD	10:4:191:THR:HG1	2.14	0.53
6:y:163:MET:CB	6:y:221:HIS:CE1	2.90	0.53
6:y:167:ILE:CG1	6:y:214:MET:CE	2.82	0.53
6:y:310:ALA:O	6:y:311:THR:CG2	2.56	0.53
3:z:199:VAL:HG12	3:z:233:ASP:HB3	1.90	0.53
7:1:624:PHE:HE1	7:1:658:ILE:HG21	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:169:VAL:O	10:4:173:GLU:HB3	2.07	0.53
12:6:317:PRO:CG	17:AB:7:PRO:CB	2.86	0.53
12:6:475:ALA:O	12:6:479:ARG:HD2	2.08	0.53
16:AA:6:THR:HG23	16:AA:108:ARG:HG2	1.90	0.53
16:AA:21:PHE:HZ	16:AA:179:LEU:HD22	1.72	0.53
18:AC:831:VAL:HA	18:AC:877:GLY:HA2	1.89	0.53
2:H:413:VAL:CG1	2:H:417:ILE:HD12	2.32	0.53
4:M:226:TYR:CD2	4:M:335:VAL:HG21	2.42	0.53
4:M:284:PHE:CD1	4:M:284:PHE:C	2.86	0.53
5:J:165:ILE:O	5:J:169:VAL:HG23	2.09	0.53
6:K:64:GLU:O	6:K:68:LEU:CG	2.55	0.53
6:K:368:ASP:OD2	6:K:407:ILE:HG12	2.08	0.53
9:P:417:ARG:CG	9:P:418:PRO:CD	2.87	0.53
18:Z:903:ASN:O	18:Z:906:TYR:N	2.41	0.53
2:v:99:THR:CB	2:v:142:VAL:HG21	2.33	0.53
1:w:115:ILE:CA	1:w:121:ALA:CB	2.75	0.53
5:x:128:PRO:O	5:x:129:ASN:HB2	2.08	0.53
3:z:65:THR:OG1	3:z:68:LYS:CG	2.56	0.53
4:0:288:LEU:CD2	4:0:342:LEU:HD13	2.15	0.53
9:3:173:THR:OG1	9:3:176:SER:OG	2.21	0.53
9:3:421:PRO:CD	9:3:422:ASN:N	2.68	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: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: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:HD2	2:H:386:ARG:O	2.08	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
5:J:235:PHE:CD1	5:J:276:LEU:CD2	2.89	0.53
5:J:273:MET:HA	5:J:276:LEU:HD12	1.90	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
10:Q:239:TYR:HB3	10:Q:247:ALA:N	2.23	0.53
10:Q:397:TYR:CE1	14:U:258:VAL:HG21	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T:155:SER:HA	13:T:158:ARG:CG	2.39	0.53
13:T:339:VAL:HG11	15:V:300:LEU:HB2	1.91	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
16:W:16:MET:CG	16:W:29:GLN:HE22	2.21	0.53
25:X:170:GLN:NE2	3:z:372:ARG:CD	2.57	0.53
22:k:94:HIS:ND1	22:k:101:PRO:O	2.40	0.53
2:v:204:LEU:HD21	2:v:206:ILE:HG21	1.90	0.53
2:v:277:ILE:HD12	2:v:278:ASP:OD1	2.08	0.53
2:v:283:ALA:HB3	2:v:285:PHE:CE1	2.43	0.53
1:w:102:LEU:HB3	1:w:136:LEU:HD13	1.89	0.53
1:w:166:ASP:OD1	5:x:78:ARG:NH2	2.42	0.53
1:w:303:ARG:O	1:w:307:ARG:HD3	2.08	0.53
5:x:47:ALA:O	5:x:48:GLN:C	2.50	0.53
5:x:222:LYS:HD3	5:x:222:LYS:C	2.32	0.53
5:x:326:LEU:CD1	5:x:345:ARG:HG3	2.39	0.53
6:y:200:ARG:HB2	6:y:325:GLY:O	2.08	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
10:4:122:ARG:C	10:4:124:PHE:N	2.66	0.53
10:4:397:TYR:CE1	14:8:258:VAL:HG21	2.44	0.53
11:5:228:MET:HE1	11:5:263:LEU:CB	2.37	0.53
11:5:304:TYR:HD2	11:5:334:LEU:HD23	1.73	0.53
15:9:282:ARG:O	15:9:286:GLU:HB3	2.09	0.53
1:I:116:ILE:HG22	1:I:117:ASP:OD1	2.08	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
3:L:71:VAL:CG2	3:L:71:VAL:O	2.55	0.53
3:L:122:MET:CE	3:L:218:MET:HG3	2.39	0.53
3:L:353:PHE:C	3:L:356:ARG:HB2	2.33	0.53
3:L:361:PHE:H	3:L:361:PHE:HD1	1.56	0.53
4:M:80:ILE:HG21	4:M:84:LYS:HE3	1.89	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
5:J:130:LYS:C	5:J:131:VAL:CG2	2.78	0.53
6:K:277:ALA:O	6:K:278:GLN:HB2	2.07	0.53
6:K:366:ARG:HD2	6:K:403:TYR:CE2	2.36	0.53
7:N:532:MET:O	7:N:536:ALA:N	2.29	0.53
7:N:540:GLN:CG	15:V:68:ARG:HH22	2.21	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:O:149:THR:C	8:O:151:VAL:N	2.64	0.53
11:R:268:TYR:HE2	11:R:307:LEU:CB	2.19	0.53
12:S:236:ARG:O	12:S:239:THR:OG1	2.16	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
18:Z:699:VAL:CB	18:Z:778:LEU:H	2.22	0.53
23:F:18:GLU:OE2	4:0:431:LYS:HB2	2.09	0.53
2:v:99:THR:HG23	2:v:142:VAL:HG23	1.83	0.53
2:v:407:LYS:HA	2:v:410:LEU:HB2	1.91	0.53
1:w:125:THR:OG1	1:w:127:VAL:CG2	2.57	0.53
5:x:235:PHE:CE1	5:x:276:LEU:HD23	2.36	0.53
6:y:123:LEU:HD22	6:y:125:LYS:NZ	2.23	0.53
3:z:145:LEU:CD2	3:z:149:ILE:CD1	2.86	0.53
3:z:151:LEU:O	3:z:153:LEU:N	2.42	0.53
3:z:199:VAL:CG1	4:0:315:ASN:HD21	2.12	0.53
3:z:215:ILE:CG2	3:z:260:LEU:HD23	2.38	0.53
4:0:80:ILE:O	4:0:84:LYS:CA	2.57	0.53
4:0:225:MET:HG3	4:0:354:PHE:CE2	2.43	0.53
4:0:294:LYS:HG3	4:0:339:ASP:OD1	2.07	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
8:2:304:VAL:O	8:2:304:VAL:HG23	2.09	0.53
9:3:143:ALA:O	9:3:146:THR:OG1	2.21	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
9:3:420:ASP:C	9:3:422:ASN:N	2.66	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:N	15:9:118:PHE:CD1	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
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
2:H:177:VAL:CB	2:H:184:ILE:HD11	2.39	0.53
2:H:220:THR:HG21	2:H:343:PHE:C	2.34	0.53
3:L:140:GLU:O	3:L:144:GLU:HB2	2.09	0.53
4:M:289:ASP:OD1	4:M:289:ASP:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:439:ALA:HB1	24:m:62:LYS:NZ	2.23	0.53
5:J:347:ILE:CD1	5:J:383:PHE:HB3	2.39	0.53
6:K:263:PHE:C	6:K:263:PHE:CD1	2.87	0.53
6:K:272:THR:O	6:K:274:ARG:N	2.42	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:35:HIS:O	8:O:38:THR:OG1	2.20	0.53
8:O:304:VAL:HG23	8:O:304:VAL:O	2.09	0.53
9:P:360:GLU:O	9:P:364:ARG:CB	2.57	0.53
10:Q:179:ALA:C	10:Q:181:SER:H	2.16	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:77:ASN:HA	11:R:110:TYR:OH	2.08	0.53
11:R:191:ILE:CG2	11:R:192:ARG:H	2.21	0.53
11:R:192:ARG:HH11	11:R:192:ARG:HG2	1.74	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
27:b:24:MET:HE3	31:t:187:VAL:CG2	2.39	0.53
27:b:144:PRO:HB3	32:u:214:MET:CE	2.32	0.53
2:v:124:ASP:OD1	2:v:125:LEU:N	2.39	0.53
2:v:220:THR:HG21	2:v:343:PHE:C	2.34	0.53
2:v:307:ASP:HB2	2:v:336:ARG:HG3	1.90	0.53
1:w:107:MET:HE3	1:w:160:ILE:CG1	2.37	0.53
1:w:198:LYS:HA	1:w:202:GLU:HB3	1.90	0.53
1:w:369:THR:CG2	1:w:374:LEU:CD1	2.86	0.53
5:x:235:PHE:CD1	5:x:276:LEU:HD22	2.33	0.53
5:x:273:MET:HA	5:x:276:LEU:HD12	1.90	0.53
5:x:347:ILE:CD1	5:x:383:PHE:HB3	2.39	0.53
5:x:351:MET:HE2	5:x:362:VAL:HG21	1.91	0.53
6:y:85:ILE:HG22	15:9:148:ILE:HD13	1.90	0.53
6:y:287:ARG:O	6:y:291:GLU:N	2.30	0.53
3:z:71:VAL:O	3:z:71:VAL:CG2	2.55	0.53
3:z:243:PHE:C	3:z:244:SER:OG	2.49	0.53
4:0:380:ASN:HB3	4:0:383:GLU:OE1	2.08	0.53
7:1:520:MET:HE3	7:1:524:LYS:HA	1.91	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
11:5:21:GLN:HG3	11:5:286:TRP:CE3	2.35	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:192:ARG:HH11	11:5:192:ARG:HG2	1.74	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
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
2:H:269:ALA:H	2:H:314:ASN:HB3	1.74	0.53
2:H:272:ILE:HD12	2:H:315:ILE:HG21	1.91	0.53
2:H:283:ALA:HB3	2:H:285:PHE:CE1	2.43	0.53
2:H:348:LEU:CD1	23:l:175:GLU:CG	2.78	0.53
3:L:111:LEU:HB3	3:L:112:PRO:CD	2.39	0.53
4:M:80:ILE:O	4:M:84:LYS:CA	2.57	0.53
4:M:314:LEU:HD23	4:M:342:LEU:CD2	2.37	0.53
6:K:166:ASP:O	33:K:501:ADP:H2	1.92	0.53
6:K:403:TYR:C	6:K:407:ILE:CD1	2.66	0.53
7:N:402:PHE:CD1	7:N:402:PHE:C	2.86	0.53
7:N:423:MET:HE3	7:N:445:ALA:C	2.34	0.53
7:N:717:ILE:HA	7:N:727:LYS:HG2	1.89	0.53
8:O:374:ILE:HG13	13:T:347:GLU:CD	2.33	0.53
10:Q:84:LYS:HZ1	10:Q:88:LEU:CD2	2.21	0.53
11:R:24:PHE:O	11:R:27:SER:OG	2.17	0.53
11:R:168:ILE:HG22	11:R:177:ARG:HE	1.72	0.53
11:R:304:TYR:HD2	11:R:334:LEU:HD23	1.73	0.53
12:S:328:VAL:O	12:S:329:HIS:C	2.52	0.53
12:S:476:PHE:C	12:S:480:ILE:HD13	2.32	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
24:G:237:GLU:O	24:G:239:ARG:N	2.41	0.53
29:d:140:LEU:HD13	30:s:166:ARG:NH1	2.24	0.53
20:i:45:LEU:HD13	20:i:74:VAL:HG22	1.90	0.53
2:v:177:VAL:HB	2:v:184:ILE:HD11	1.90	0.53
2:v:272:ILE:HD12	2:v:315:ILE:HG21	1.91	0.53
1:w:268:ARG:O	1:w:272:ARG:N	2.36	0.53
1:w:306:GLN:O	1:w:309:MET:HB2	2.09	0.53
5:x:46:GLN:HG2	6:y:61:ILE:HG21	1.88	0.53
6:y:106:THR:OG1	3:z:77:PRO:CB	2.54	0.53
4:0:261:ILE:HG12	4:0:261:ILE:O	2.08	0.53
7:1:10:SER:CB	13:7:170:GLN:HG3	2.39	0.53
7:1:402:PHE:C	7:1:402:PHE:CD1	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HA	9:3:317:TRP:CE3	2.42	0.53
11:5:53:TYR:OH	11:5:150:PHE:HZ	1.77	0.53
12:6:328:VAL:O	12:6:329:HIS:C	2.52	0.53
13:7:123:LEU:CG	13:7:140:GLN:C	2.82	0.53
15:9:116:PRO:O	15:9:118:PHE:CD1	2.61	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
1:I:379:THR:C	1:I:381:ASP:N	2.67	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
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
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
5:J:381:GLU:CD	10:Q:191:THR:HG1	2.17	0.53
6:K:60:TYR:HE1	7:N:607:VAL:HG22	1.73	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
7:N:520:MET:HE3	7:N:524:LYS:HA	1.91	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:342:TYR:O	13:T:346:LEU:HG	2.08	0.53
21:j:8:ARG:CZ	22:k:5:ARG:HD3	2.39	0.53
2:v:120:LYS:HB2	4:0:90:VAL:HG21	1.90	0.53
2:v:124:ASP:HB2	4:0:86:LEU:CD1	2.39	0.53
2:v:334:PRO:HG2	4:0:394:ALA:HB1	1.91	0.53
5:x:130:LYS:O	5:x:131:VAL:HB	2.09	0.53
6:y:52:GLU:CD	7:1:596:ASN:HD21	2.17	0.53
6:y:70:LYS:HE2	14:8:182:THR:CB	2.38	0.53
6:y:119:ILE:CD1	6:y:119:ILE:H	2.21	0.53
6:y:248:ARG:HA	6:y:295:GLN:OE1	2.09	0.53
6:y:272:THR:O	6:y:274:ARG:N	2.42	0.53
6:y:310:ALA:O	6:y:311:THR:HG22	2.09	0.53
3:z:226:GLN:NE2	3:z:271:HIS:O	2.42	0.53
3:z:238:ILE:O	3:z:257:LEU:HD23	2.08	0.53
3:z:322:LYS:HZ3	3:z:326:ILE:HD12	1.70	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:137:ILE:O	4:0:140:VAL:CG2	2.56	0.53
4:0:289:ASP:OD1	4:0:289:ASP:N	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
10:4:103:THR:OG1	10:4:140:THR:HG22	2.09	0.53
10:4:106:GLU:O	10:4:110:CYS:SG	2.66	0.53
10:4:239:TYR:C	10:4:242:ILE:HG22	2.34	0.53
10:4:412:ASP:O	10:4:416:ASN:CG	2.50	0.53
11:5:271:PHE:CD1	11:5:271:PHE:C	2.87	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
1:I:198:LYS:HA	1:I:202:GLU:HB3	1.90	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
3:L:200:SER:O	3:L:237:ALA:HB3	2.09	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
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
20:C:228:TYR:CE2	10:4:83:ALA:HB2	2.44	0.53
29:d:28:MET:HE3	30:e:121:ILE:HD11	1.91	0.53
24:m:140:MET:HG2	32:u:81:HIS:HE1	1.68	0.53
24:m:196:ARG:C	24:m:198:THR:H	2.16	0.53
5:x:104:ASP:HB2	5:x:107:ASP:H	1.73	0.53
6:y:169:GLY:HA2	6:y:343:LEU:HD13	1.91	0.53
6:y:368:ASP:O	6:y:369:LYS:HB2	2.09	0.53
3:z:140:GLU:O	3:z:144:GLU:HB2	2.09	0.53
3:z:257:LEU:CD1	3:z:261:LEU:HD11	2.39	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
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
18:AC:234:THR:O	18:AC:237:VAL:N	2.41	0.53
1:I:218:PRO:CB	1:I:326:LYS:NZ	2.72	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
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
5:J:104:ASP:HB2	5:J:107:ASP:H	1.73	0.53
6:K:90:GLY:C	6:K:130:VAL:HG23	2.30	0.53
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
8:O:327:VAL:CG2	9:P:412:ILE:HG12	2.37	0.53
9:P:154:GLU:CG	9:P:162:ALA:HB3	2.38	0.53
10:Q:245:PRO:CD	10:Q:246:LYS:H	2.22	0.53
10:Q:417:LYS:HG2	15:V:263:ASP:OD2	2.08	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
16:W:16:MET:HA	16:W:25:ARG:HB3	1.90	0.53
24:m:121:GLN:O	25:n:128:VAL:HA	2.08	0.53
1:w:151:LEU:HB3	1:w:160:ILE:HB	1.90	0.53
1:w:228:PRO:HB2	5:x:307:ARG:HD3	1.90	0.53
6:y:92:PHE:HE1	6:y:101:ALA:HB1	1.73	0.53
6:y:251:PHE:HD2	6:y:295:GLN:OE1	1.92	0.53
6:y:267:ILE:HG21	6:y:309:MET:HE2	1.91	0.53
3:z:264:MET:HG2	3:z:275:MET:HE2	1.89	0.53
4:0:217:ILE:CG1	4:0:218:GLN:H	2.14	0.53
4:0:399:VAL:N	4:0:427: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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:287:ILE:HD13	1:I:337:LEU:HD21	1.91	0.53
1:I:306:GLN:O	1:I:309:MET:HB2	2.09	0.53
2:H:407:LYS:HA	2:H:410:LEU:HB2	1.91	0.53
3:L:56:ILE:HD11	4:M:132:TYR:CE1	2.44	0.53
3:L:253:ILE:O	3:L:254:GLN:C	2.50	0.53
3:L:277:MET:HE1	3:L:289:LEU:HD11	1.91	0.53
4:M:81:LYS:O	4:M:85:THR:HG23	2.09	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
5:J:284:GLU:O	5:J:285:ALA:HB3	2.09	0.53
7:N:148:LYS:HE2	7:N:179:TYR:HB3	1.92	0.53
7:N:546:ARG:HD3	7:N:768:GLN:CD	2.34	0.53
9:P:78:LYS:CA	9:P:79:GLU:HB3	2.39	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
12:S:472:PRO:C	12:S:476:PHE:CE2	2.87	0.53
12:S:487:HIS:C	12:S:487:HIS:HD1	2.16	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
16:W:19:GLY:HA2	16:W:24:THR:HA	1.91	0.53
18:Z:271:MET:C	18:Z:273:ASN:N	2.67	0.53
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
19:B:103:TYR:C	19:B:103:TYR:CD1	2.86	0.53
31:f:185:ARG:NH2	27:p:29:LYS:HE3	2.23	0.53
2:v:291:GLY:C	2:v:293:ASN:H	2.16	0.53
1:w:178:LYS:HB2	5:x:285:ALA:HB2	1.90	0.53
1:w:218:PRO:CB	1:w:326:LYS:NZ	2.72	0.53
5:x:165:ILE:O	5:x:169:VAL:HG23	2.09	0.53
6:y:90:GLY:N	6:y:130:VAL:O	2.33	0.53
6:y:153:MET:C	6:y:155:THR:H	2.17	0.53
6:y:166:ASP:O	33:y:501:ADP:H2	1.92	0.53
3:z:72:LYS:HB2	3:z:78:ARG:HG3	1.89	0.53
3:z:200:SER:O	3:z:237:ALA:HB3	2.09	0.53
3:z:250:ASP:O	3:z:254:GLN:CG	2.54	0.53
3:z:327:ASP:O	3:z:331:ILE:HG13	2.09	0.53
3:z:338:PHE:CE1	3:z:375:ALA:CA	2.91	0.53
7:1:661:ALA:HA	7:1:694:ILE:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
13:7:339:VAL:HG11	15:9:300:LEU:HB2	1.91	0.53
14:8:94:TRP:CE2	14:8:109:ASN:OD1	2.59	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
1:I:310:LEU:HG	2:H:276:GLU:HG2	1.91	0.52
4:M:80:ILE:HG21	4:M:84:LYS:NZ	2.24	0.52
5:J:143:VAL:O	5:J:144:PRO:C	2.52	0.52
5:J:351:MET:HE2	5:J:362:VAL:HG21	1.91	0.52
6:K:310:ALA:O	6:K:311:THR:HG22	2.09	0.52
7:N:530:GLU:O	7:N:534:GLY:N	2.26	0.52
7:N:573:ASP:CG	7:N:575:ASP:H	2.18	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:271:PHE:C	11:R:271:PHE:CD1	2.86	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
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
27:b:24:MET:HE3	31:t:187:VAL:HG21	1.90	0.52
28:c:20:VAL:HG12	28:c:190:ILE:HG12	1.90	0.52
19:h:6:SER:HB2	19:h:11:ARG:NH1	2.24	0.52
2:v:154:PRO:HB2	2:v:155:PRO:CD	2.39	0.52
2:v:284:ARG:CB	2:v:296:GLN:OE1	2.57	0.52
1:w:356:PRO:HB2	1:w:361:LYS:CG	2.37	0.52
6:y:93:LEU:CD2	6:y:102:ILE:CG2	2.87	0.52
6:y:160:PRO:CD	6:y:220:ALA:CB	2.87	0.52
6:y:236:VAL:HG23	6:y:236:VAL:O	2.08	0.52
3:z:264:MET:SD	3:z:275:MET:HE2	2.46	0.52
4:0:311:LEU:HD23	4:0:314:LEU:HD12	1.90	0.52
4:0:323:ASN:N	4:0:323:ASN:HD22	2.07	0.52
7:1:326:ILE:HA	7:1:329:LEU:HD12	1.90	0.52
8:2:213:PHE:CE2	8:2:240:PHE:CG	2.97	0.52
8:2:225:LEU:O	8:2:230:ARG:HB2	2.08	0.52
8:2:370:GLN:C	13:7:340:ILE:CG2	2.80	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
10:4:260:MET:CE	10:4:325:LYS:HB2	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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: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:342:ILE:O	1:I:343:ARG:C	2.51	0.52
1:I:417:GLU:HA	1:I:420:LYS:HB2	1.91	0.52
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
3:L:65:THR:OG1	3:L:68:LYS:CB	2.57	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
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:107:GLN:C	9:P:141:GLU:CD	2.76	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
28:q:20:VAL:HG12	28:q:190:ILE:HG12	1.90	0.52
1:w:379:THR:C	1:w:381:ASP:N	2.67	0.52
5:x:48:GLN:O	5:x:52:LEU:HG	2.09	0.52
5:x:284:GLU:O	5:x:285:ALA:HB3	2.09	0.52
6:y:70:LYS:HA	6:y:73:LEU:HD11	1.91	0.52
6:y:263:PHE:C	6:y:263:PHE:CD1	2.87	0.52
6:y:395:LEU:O	6:y:398:ASP:HB2	2.09	0.52
3:z:101:ASP:O	3:z:105:LEU:HA	2.10	0.52
4:0:169:ASP:HB2	4:0:172:VAL:HG21	1.87	0.52
8:2:374:ILE:HG13	13:7:347:GLU:CD	2.33	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
10:4:310: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:472:PRO:C	12:6:476:PHE:CE2	2.87	0.52
12:6:487:HIS:C	12:6:487:HIS:HD1	2.16	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
1:I:369:THR:CG2	1:I:374:LEU:CD1	2.86	0.52
3:L:65:THR:OG1	3:L:68:LYS:HG3	2.10	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:226:GLN:NE2	3:L:271:HIS:O	2.42	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
4:M:402:GLU:OE1	4:M:427:VAL:HG23	2.05	0.52
6:K:52:GLU:CD	7:N:596:ASN:HD21	2.17	0.52
6:K:214:MET:SD	33:K:501:ADP:C2'	2.97	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: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
16:W:2:VAL:C	16:W:44:ASN:HD22	2.17	0.52
29:d:169:LYS:O	29:r:27:GLN:NE2	2.43	0.52
27:p:59:ILE:HD12	27:p:82:MET:HB3	1.90	0.52
2:v:85:GLN:O	2:v:89:SER:N	2.23	0.52
2:v:153:LEU:HD13	1:w:132:TYR:OH	2.10	0.52
2:v:299:MET:HG2	2:v:303:ILE:CD1	2.40	0.52
6:y:89:ILE:HD13	3:z:70:ILE:HG23	1.90	0.52
6:y:100:THR:HG22	6:y:112:TYR:CD1	2.39	0.52
3:z:65:THR:OG1	3:z:68:LYS:HG3	2.10	0.52
3:z:148:VAL:HG13	3:z:149:ILE:HG13	1.91	0.52
4:0:80:ILE:HG21	4:0:84:LYS:NZ	2.24	0.52
7:1:423:MET:HE3	7:1:445:ALA:C	2.34	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
9:3:74: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
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
9:3:186:ILE:HG23	9:3:208:LYS:HZ1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:199:TYR:CG	9:3:200:ILE:N	2.77	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
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: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
5:J:334:ARG:O	11:R:173:ASP:CB	2.57	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
6:K:102:ILE:HA	6:K:111:TYR:O	2.10	0.52
6:K:248:ARG:HA	6:K:295:GLN:OE1	2.09	0.52
6:K:283:ARG:O	6:K:287:ARG:CG	2.55	0.52
6:K:372:GLY:CA	33:K:501:ADP:H8	2.19	0.52
7:N:178:ALA:HA	7:N:181:LEU:HB3	1.90	0.52
9:P:206:SER:O	9:P:209:ILE:HG22	2.09	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
11:R:304:TYR:HD1	11:R:304:TYR:N	2.08	0.52
13:T:151:GLY:O	13:T:155:SER:OG	2.24	0.52
13:T:335:LEU:CD2	15:V:303:MET:HE3	2.39	0.52
14:U:116:CYS:SG	14:U:117:PRO:CD	2.97	0.52
23:F:182:GLN:HA	24:G:56:LEU:HD11	1.90	0.52
24:G:88:MET:HE3	24:G:112:ILE:HD11	1.91	0.52
23:l:96:THR:HA	23:l:107:MET:HG3	1.92	0.52
1:w:106:PRO:CG	5:x:121:TYR:HB3	2.33	0.52
1:w:284:ILE:HG21	1:w:287:ILE:HG22	1.90	0.52
1:w:294:ARG:O	1:w:294:ARG:HD2	2.09	0.52
1:w:423:LYS:O	1:w:427:LEU:HB2	2.10	0.52
5:x:114:VAL:CB	5:x:126:ILE:HA	2.39	0.52
5:x:334:ARG:O	11:5:173:ASP:CB	2.57	0.52
3:z:132:TYR:CD1	3:z:133:SER:N	2.77	0.52
3:z:149:ILE:O	3:z:153:LEU:CD2	2.58	0.52
3:z:338:PHE:CE1	3:z:375:ALA:CB	2.89	0.52
3:z:338:PHE:HE1	3:z:375:ALA:HA	1.72	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:48:LEU:CD2	9:3:90:LEU:HG	2.40	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
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
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
2:H:284:ARG:CG	2:H:296:GLN:OE1	2.58	0.52
3:L:370:ALA:O	3:L:374:VAL:HG23	2.10	0.52
4:M:426:GLU:C	4:M:428:GLN:N	2.65	0.52
5:J:214:VAL:HG22	5:J:234:LEU:CD1	2.40	0.52
6:K:154:LEU:C	6:K:155:THR:CG2	2.77	0.52
6:K:359:ASP:C	6:K:361:GLU:N	2.50	0.52
7:N:31:VAL:HG21	7:N:63:VAL:HG22	1.92	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:650:TYR:CD1	7:N:650:TYR:C	2.87	0.52
9:P:125:ILE:O	9:P:129:ARG:HB2	2.09	0.52
9:P:436:MET:HE1	14:U:201:LEU:CD1	2.40	0.52
10:Q:239:TYR:C	10:Q:242:ILE:HG22	2.34	0.52
13:T:123:LEU:CG	13:T:140:GLN:C	2.82	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
23:F:17:PRO:HA	24:G:24:TYR:CG	2.45	0.52
27:b:175:LEU:HD12	27:b:189:TYR:CE1	2.44	0.52
19:h:159:TYR:HD1	19:h:160:TYR:N	2.07	0.52
2:v:269:ALA:H	2:v:314:ASN:HB3	1.74	0.52
2:v:355:PHE:CD1	2:v:385:ILE:HG21	2.40	0.52
1:w:107:MET:CE	1:w:151:LEU:HD13	2.33	0.52
1:w:118:ASP:O	1:w:120:HIS:N	2.42	0.52
1:w:234:LEU:HD11	33:w:501:ADP:H2'	1.91	0.52
1:w:268:ARG:O	1:w:272:ARG:CB	2.57	0.52
1:w:390:LEU:HD11	1:w:395:ILE:HG12	1.90	0.52
5:x:24:TYR:O	5:x:25:LEU:O	2.27	0.52
5:x:291:VAL:O	5:x:291:VAL:CG2	2.57	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:126:PRO:HD2	6:y:127:ASN:H	1.74	0.52
6:y:239:TYR:C	6:y:240:LEU:HD23	2.35	0.52
3:z:56:ILE:HD11	4:0:132:TYR:HE1	1.73	0.52
3:z:65:THR:OG1	3:z:68:LYS:CB	2.57	0.52
3:z:111:LEU:HB3	3:z:112:PRO:CD	2.39	0.52
3:z:113:ARG:HG3	3:z:113:ARG:NH1	2.23	0.52
3:z:126:ASP:OD1	4:0:320:PHE:HD2	1.80	0.52
3:z:255:ARG:O	3:z:258:MET:N	2.41	0.52
4:0:91:SER:HB3	4:0:126:THR:HA	1.92	0.52
4:0:378:ASP:O	4:0:379:VAL:HG23	2.10	0.52
8:2:341:LEU:HB2	8:2:345:GLN:HB2	1.91	0.52
9:3:63:THR:OG1	9:3:102:ALA:CB	2.58	0.52
9:3:107:GLN:C	9:3:141:GLU:CD	2.76	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
9:3:436:MET:HE1	14:8:201:LEU:CD1	2.40	0.52
10:4:61:GLY:C	10:4:63:ALA:N	2.64	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
10:4:337:ARG:HG2	10:4:340:GLU:CD	2.35	0.52
15:9:248:MET:CE	15:9:284:LEU:HD23	2.35	0.52
1:I:228:PRO:HB2	5:J:307:ARG:HD3	1.90	0.52
3:L:226:GLN:HA	3:L:227:PRO:C	2.35	0.52
4:M:378:ASP:O	4:M:379:VAL:HG23	2.10	0.52
5:J:41:ASN:HA	5:J:44:ARG:CB	2.39	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
6:K:71:GLU:OE2	6:K:74:HIS:HD2	1.93	0.52
6:K:153:MET:C	6:K:155:THR:H	2.17	0.52
7:N:428:PRO:C	7:N:430:ASP:H	2.18	0.52
9:P:74:CYS:O	9:P:78:LYS:CB	2.48	0.52
10:Q:49:SER:O	10:Q:53:LEU:N	2.42	0.52
10:Q:137:TYR:CE2	10:Q:145:GLU:OE1	2.63	0.52
16:W:54:LEU:O	16:W:58:CYS:N	2.43	0.52
22:E:79:ASP:OD2	22:E:125:ARG:NH2	2.41	0.52
2:v:276:GLU:HG2	1:w:310:LEU:HG	1.91	0.52
1:w:144:LEU:CD2	1:w:162:VAL:CG2	2.84	0.52
1:w:287:ILE:HD13	1:w:337:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:383:LEU:O	1:w:386:ALA:HB3	2.10	0.52
3:z:100:LEU:HD23	3:z:107:ILE:HA	1.90	0.52
4:0:215:LEU:HD22	4:0:217:ILE:CG2	2.26	0.52
7:1:10:SER:CB	13:7:170:GLN:NE2	2.73	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
10:4:417:LYS:HG2	15:9:263:ASP:OD2	2.08	0.52
14:8:224:HIS:HB3	14:8:228:TYR:HE1	1.73	0.52
16:AA:124:LEU:O	16:AA:127:LEU:HB2	2.09	0.52
1:I:234:LEU:HD11	33:I:501:ADP:H2'	1.91	0.52
1:I:240:ALA:HA	1:I:243:THR:CG2	2.40	0.52
1:I:372:MET:HE2	1:I:374:LEU:HB2	1.92	0.52
1:I:390:LEU:HD11	1:I:395:ILE:HG12	1.90	0.52
2:H:91:GLN:C	2:H:93:LEU:H	2.18	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
2:H:334:PRO:HG2	4:M:394:ALA:HB1	1.91	0.52
3:L:56:ILE:HD11	4:M:132:TYR:HE1	1.73	0.52
3:L:257:LEU:CD1	3:L:261:LEU:HD11	2.39	0.52
4:M:252:ALA:HB1	4:M:254:PRO:HD2	1.92	0.52
5:J:86:LEU:HA	5:J:96:VAL:HA	1.92	0.52
5:J:161:ILE:O	5:J:165:ILE:N	2.43	0.52
6:K:70:LYS:HA	6:K:73:LEU:HD11	1.91	0.52
6:K:230:VAL:HG21	6:K:250:VAL:HG21	1.90	0.52
7:N:341:PHE:HE1	7:N:882:ALA:N	2.08	0.52
8:O:278:MET:SD	8:O:319:LEU:HB3	2.50	0.52
9:P:48:LEU:CD2	9:P:90:LEU:HG	2.40	0.52
9:P:201:ARG:O	9:P:205:ILE:CB	2.58	0.52
10:Q:120:GLU:O	10:Q:121:LYS:CB	2.58	0.52
10:Q:337:ARG:HG2	10:Q:340:GLU:CD	2.35	0.52
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
23:F:96:THR:HA	23:F:107:MET:HG3	1.91	0.52
27:b:6:VAL:HG23	27:b:124:TYR:HB3	1.91	0.52
20:i:51:GLN:HG2	20:i:56:TYR:CB	2.38	0.52
2:v:215:PHE:CB	2:v:324:PRO:HG3	2.39	0.52
5:x:143:VAL:O	5:x:144:PRO:C	2.52	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:235:PHE:HZ	5:x:280:LEU:HD21	1.75	0.52
6:y:286:GLN:O	6:y:289:LEU:HB2	2.10	0.52
6:y:368:ASP:OD2	6:y:407:ILE:HG12	2.08	0.52
3:z:109:ARG:HH11	3:z:109:ARG:CB	2.20	0.52
3:z:314:LYS:HE2	3:z:328:TYR:CD2	2.45	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
13:7:330:ILE:HG21	13:7:334:GLU:CD	2.24	0.52
14:8:58:PHE:CD1	14:8:58:PHE:C	2.87	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
2:H:119:ALA:CB	4:M:127:SER:C	2.83	0.52
2:H:215:PHE:CB	2:H:324:PRO:HG3	2.39	0.52
5:J:30:GLU:C	5:J:34:ILE:HD12	2.35	0.52
5:J:150:MET:O	5:J:150:MET:HG3	2.09	0.52
5:J:189:TYR:CE2	5:J:316:GLU:HB3	2.32	0.52
5:J:235:PHE:HZ	5:J:280:LEU:HD21	1.75	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:297:ARG:CD	10:Q:333:GLN:HB3	2.38	0.52
10:Q:319:ILE:O	10:Q:322:HIS:HB2	2.10	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:54:LEU:HA	16:W:58:CYS:CA	2.40	0.52
16:W:144:GLY:HA3	16:W:148:VAL:HG23	1.91	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
22:k:31:THR:OG1	22:k:163:ARG:O	2.27	0.52
2:v:119:ALA:CB	4:0:127:SER:C	2.83	0.52
2:v:177:VAL:CB	2:v:184:ILE:HD11	2.39	0.52
2:v:215:PHE:HB3	2:v:324:PRO:HB3	1.90	0.52
2:v:258:ARG:CD	2:v:305:GLN:NE2	2.57	0.52
1:w:204:PRO:HG3	1:w:211:TYR:HE2	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:365:PHE:CE1	1:w:395:ILE:HG23	2.45	0.52
5:x:43:ARG:HE	6:y:57:GLN:HB3	1.75	0.52
5:x:356:GLY:O	33:x:501:ADP:H1'	2.09	0.52
6:y:70:LYS:C	6:y:73:LEU:HD12	2.34	0.52
6:y:230:VAL:HG21	6:y:250:VAL:HG21	1.90	0.52
3:z:243:PHE:HB3	3:z:245:GLU:HA	1.91	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
7:1:546:ARG:HD3	7:1:768:GLN:CD	2.34	0.52
10:4:48:GLN:O	10:4:51:LEU:N	2.42	0.52
16:AA:68:THR:O	16:AA:71:ILE:N	2.43	0.52
1:I:106:PRO:CG	5:J:121:TYR:HB3	2.33	0.52
1:I:107:MET:CE	1:I:151:LEU:HD13	2.33	0.52
3:L:338:PHE:CE1	3:L:375:ALA:CA	2.91	0.52
4:M:323:ASN:HD22	4:M:323:ASN:N	2.07	0.52
5:J:128:PRO:HD3	6:K:96:VAL:HG13	1.91	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:267:ILE:HG21	6:K:309:MET:HE2	1.91	0.52
6:K:296:MET:CE	6:K:326:ARG:O	2.57	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: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:529:SER:N	18:Z:565:ASN:O	2.36	0.52
22:E:94:HIS:ND1	22:E:101:PRO:O	2.40	0.52
22:E:184:ASP:OD1	22:E:184:ASP:N	2.42	0.52
29:r:28:MET:HE3	30:s:121:ILE:HD11	1.92	0.52
2:v:182:GLU:HB2	2:v:183:GLN:OE1	2.09	0.52
5:x:247:PHE:HA	5:x:292:ILE:O	2.10	0.52
6:y:151:ILE:O	6:y:152:MET:HB3	2.10	0.52
6:y:160:PRO:HG3	3:z:267:PHE:CE2	2.45	0.52
6:y:345:PHE:CD2	6:y:360:LEU:HD23	2.37	0.52
3:z:150:GLU:O	3:z:153:LEU:CD2	2.57	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
8:2:327:VAL:CG2	9:3:412:ILE:HG12	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:118:ASP:C	1:I:120:HIS:N	2.68	0.52
1:I:189:GLY:HA2	1:I:360:THR:HG22	1.92	0.52
1:I:204:PRO:CG	1:I:211:TYR:CE2	2.92	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: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
5:J:24:TYR:O	5:J:25:LEU:O	2.27	0.52
6:K:93:LEU:CG	6:K:94:GLU:N	2.73	0.52
6:K:115:ILE:HD12	6:K:121:ARG:HH11	1.64	0.52
6:K:146:GLU:O	6:K:147:ALA:HB3	2.09	0.52
6:K:239:TYR:C	6:K:240:LEU:HD23	2.35	0.52
6:K:395:LEU:O	6:K:398:ASP:HB2	2.09	0.52
7:N:51:ASP:O	7:N:57:ARG:HD3	2.10	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
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:122:ARG:C	10:Q:124:PHE:N	2.66	0.52
10:Q:200:ILE:O	10:Q:201:TYR:O	2.28	0.52
12:S:463:MET:C	12:S:465:ASP:H	2.16	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:142:ASN:ND2	16:W:172:THR:HG23	2.24	0.52
16:W:148:VAL:O	16:W:153:LEU:HD12	2.09	0.52
19:B:6:SER:HB2	19:B:11:ARG:NH1	2.25	0.52
19:B:96:TYR:CE1	19:B:100:ASN:OD1	2.61	0.52
31:f:148:LEU:HD23	31:f:178:VAL:HG12	1.92	0.52
24:m:227:ASP:O	24:m:230:SER:OG	2.27	0.52
27:p:6:VAL:HG23	27:p:124:TYR:HB3	1.91	0.52
2:v:388:VAL:HG13	2:v:412:ALA:HB1	1.92	0.52
1:w:203:LEU:CB	1:w:204:PRO:CD	2.88	0.52
1:w:240:ALA:HA	1:w:243:THR:CG2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:86:LEU:HA	5:x:96:VAL:HA	1.92	0.52
5:x:161:ILE:HD11	5:x:199:LEU:HG	1.91	0.52
5:x:231:VAL:HG12	5:x:231:VAL:O	2.10	0.52
6:y:100:THR:HG22	6:y:101:ALA:H	1.75	0.52
6:y:129:SER:O	6:y:143:LEU:HB2	2.10	0.52
6:y:370:ILE:HG22	6:y:375:ILE:HG13	1.92	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
7:1:428:PRO:C	7:1:430:ASP:H	2.18	0.52
7:1:650:TYR:C	7:1:650:TYR:CD1	2.87	0.52
7:1:738:ASP:HA	7:1:742:HIS:HB3	1.92	0.52
8:2:172:TYR:CD1	8:2:172:TYR:C	2.88	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
11:5:24:PHE:O	11:5:27:SER:OG	2.17	0.52
11:5:146:ARG:HH12	11:5:213:LEU:CD1	2.10	0.52
11:5:366:TYR:CD1	11:5:366:TYR:C	2.87	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:O	14:8:174:HIS:ND1	2.43	0.52
16:AA:112:PHE:HA	16:AA:141:ILE:HB	1.92	0.52
1:I:402:ALA:CB	1:I:414:VAL:HG11	2.22	0.51
2:H:275:ASP:HA	2:H:320:ALA:HB3	1.92	0.51
3:L:50:LEU:HD13	4:M:82:VAL:CG2	2.35	0.51
3:L:255:ARG:O	3:L:258:MET:N	2.41	0.51
4:M:87:PRO:CB	4:M:155:LYS:CE	2.73	0.51
4:M:282:ILE:CG2	4:M:329:ILE:HD12	2.40	0.51
5:J:184:LYS:CE	5:J:281:ASP:OD1	2.57	0.51
5:J:247:PHE:HA	5:J:292:ILE:O	2.10	0.51
5:J:283:PHE:O	5:J:284:GLU:HB3	2.10	0.51
6:K:70:LYS:HE2	14:U:182:THR:HG21	1.93	0.51
6:K:93:LEU:CD2	6:K:102:ILE:CG2	2.87	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
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
19:B:15:ILE:HD12	20:C:20:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X:74:GLY:HA3	25:X:224:HIS:CD2	2.45	0.51
31:f:184:GLU:HG3	27:p:195:LYS:HE2	1.91	0.51
20:i:100:TYR:HE1	28:q:90:MET:HE2	1.73	0.51
24:m:159:MET:CE	24:m:169:ARG:CZ	2.89	0.51
2:v:374:ALA:HA	2:v:377:CYS:SG	2.50	0.51
6:y:60:TYR:HE1	7:1:607:VAL:HG22	1.73	0.51
6:y:205:TYR:CA	6:y:311:THR:O	2.58	0.51
6:y:216:ALA:CB	6:y:263:PHE:CE2	2.91	0.51
3:z:65:THR:HG23	3:z:68:LYS:HD2	1.92	0.51
3:z:238:ILE:CG1	3:z:260:LEU:HD11	2.39	0.51
3:z:370:ALA:O	3:z:374:VAL:HG23	2.10	0.51
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
7:1:573:ASP:CG	7:1:575:ASP:H	2.18	0.51
9:3:304:ASP:CB	9:3:324:TYR:OH	2.58	0.51
10:4:10:GLN:O	10:4:14:SER:N	2.29	0.51
10:4:96:PHE:CD1	10:4:106:GLU:OE2	2.62	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
1:I:102:LEU:HD13	2:H:87:LEU:CD1	2.11	0.51
1:I:107:MET:HE2	1:I:151:LEU:HD22	1.92	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
4:M:284:PHE:HD1	4:M:285:ILE:H	1.55	0.51
5:J:195:GLY:N	33:J:501:ADP:C8	2.78	0.51
5:J:211:PHE:CE1	5:J:247:PHE:HB2	2.45	0.51
5:J:231:VAL:HG12	5:J:231:VAL:O	2.10	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
7:N:10:SER:CB	13:T:170:GLN:HG3	2.39	0.51
7:N:355:ASN:O	7:N:359:ALA:HB2	2.10	0.51
7:N:660:CYS:C	7:N:694:ILE:HG12	2.35	0.51
7:N:764:LEU:O	7:N:767:THR:OG1	2.28	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
11:R:224:VAL:C	11:R:227:SER:HG	2.18	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)
21:D:62:SER:OG	21:D:63:GLU:N	2.41	0.51
24:G:140:MET:HG2	32:g:81:HIS:HE1	1.67	0.51
20:i:51:GLN:HG3	20:i:56:TYR:CD2	2.44	0.51
22:k:184:ASP:OD1	22:k:184:ASP:N	2.42	0.51
23:l:232:GLU:OE2	23:l:232:GLU:N	2.39	0.51
2:v:109:PRO:CG	2:v:110:LYS:H	2.22	0.51
2:v:246:VAL:HG21	2:v:295:VAL:HG22	1.91	0.51
1:w:372:MET:HE2	1:w:374:LEU:HB2	1.92	0.51
1:w:401:GLU:HG2	1:w:422:SER:CB	2.39	0.51
5:x:78:ARG:HH11	5:x:80:MET:HG2	1.74	0.51
5:x:214:VAL:HG22	5:x:234:LEU:CD1	2.40	0.51
6:y:102:ILE:HA	6:y:111:TYR:O	2.10	0.51
6:y:258:ALA:O	6:y:260:ALA:N	2.43	0.51
3:z:226:GLN:HA	3:z:227:PRO:C	2.35	0.51
4:0:81:LYS:O	4:0:85:THR:HG23	2.09	0.51
4:0:168:TYR:HD2	4:0:173:LYS:NZ	2.09	0.51
4:0:300:LYS:O	4:0:301:ALA:HB2	2.09	0.51
4:0:423:GLY:O	4:0:427:VAL:N	2.23	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
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
8:O:34:TRP:H	16:W:18:ASN:HD21	1.56	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:30:GLU:CA	11:R:31:HIS:CG	2.90	0.51
11:R:267:ARG:CG	11:R:270:VAL:CG1	2.88	0.51
11:R:366:TYR:C	11:R:366:TYR:CD1	2.87	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
25:X:170:GLN:NE2	3:z:372:ARG:HB3	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:l:17:PRO:HG3	24:m:24:TYR:CE2	2.45	0.51
26:o:14:LEU:HD21	26:o:101:ALA:HB3	1.92	0.51
2:v:111:TYR:CE2	2:v:134:ILE:CD1	2.94	0.51
2:v:275:ASP:HA	2:v:320:ALA:HB3	1.92	0.51
2:v:393:GLY:CA	1:w:216:ILE:HD13	2.41	0.51
1:w:114:GLU:C	1:w:115:ILE:HG13	2.36	0.51
1:w:190:LEU:HB3	1:w:194:ILE:HG12	1.92	0.51
1:w:219:PRO:O	1:w:220:LYS:O	2.28	0.51
5:x:168:PRO:O	5:x:172:PRO:HG3	2.10	0.51
5:x:195:GLY:N	33:x:501:ADP:C8	2.78	0.51
6:y:146:GLU:O	6:y:147:ALA:HB3	2.09	0.51
6:y:296:MET:CE	6:y:326:ARG:O	2.57	0.51
3:z:61:LEU:HD12	3:z:78:ARG:CG	2.23	0.51
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
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
18:AC:272:LEU:C	18:AC:274:ASP:N	2.68	0.51
1:I:171:VAL:CG1	1:I:277:HIS:NE2	2.73	0.51
1:I:216:ILE:HD13	2:H:393:GLY:CA	2.41	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
2:H:388:VAL:HG13	2:H:412:ALA:HB1	1.92	0.51
3:L:58:GLY:CA	3:L:74:THR:CG2	2.59	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:265:ASP:O	3:L:266:GLY:C	2.53	0.51
3:L:338:PHE:CZ	3:L:375:ALA:HA	2.45	0.51
4:M:375:VAL:C	4:M:414:GLU:HG2	2.35	0.51
5:J:167:LEU:HB3	5:J:168:PRO:HD3	1.92	0.51
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
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
10:Q:92:LEU:C	10:Q:92:LEU:HD13	2.36	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T:282:ILE:O	13:T:314:ASN:HA	2.10	0.51
15:V:254:ASN:HB3	15:V:280:PRO:HG3	1.93	0.51
16:W:53:THR:O	16:W:58:CYS:CA	2.53	0.51
16:W:108:ARG:HA	16:W:137:ASN:O	2.11	0.51
18:Z:296:PHE:O	18:Z:300:ARG:N	2.34	0.51
21:j:11:ILE:HG23	22:k:18:GLN:NE2	2.25	0.51
30:s:44:THR:HG21	30:s:100:MET:HE3	1.91	0.51
2:v:178:GLY:HA3	2:v:357:ILE:HD11	1.93	0.51
1:w:112:LEU:HD12	1:w:145:GLU:O	2.11	0.51
1:w:189:GLY:HA2	1:w:360:THR:HG22	1.92	0.51
5:x:79:ALA:O	5:x:80:MET:HG3	2.10	0.51
6:y:216:ALA:HB2	6:y:263:PHE:HE2	1.74	0.51
3:z:143:ARG:HG2	3:z:147:GLU:CD	2.33	0.51
3:z:199:VAL:HG11	4:0:315:ASN:CG	2.35	0.51
3:z:207:TYR:HB2	3:z:210:GLU:HB2	1.91	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:CD1	12:6:480:ILE:H	2.23	0.51
13:7:345:GLN:C	13:7:349:ILE:HG13	2.18	0.51
14:8:176:LEU:HD21	15:9:217:LEU:HB2	1.92	0.51
15:9:212:LEU:HD12	15:9:215:LYS:HD2	1.93	0.51
16:AA:54:LEU:O	16:AA:58:CYS:N	2.43	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
1:I:232:LYS:N	1:I:353:PHE:CE2	2.78	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
3:L:238:ILE:CG1	3:L:260:LEU:HD11	2.39	0.51
4:M:143:GLU:C	4:M:145:LEU:N	2.65	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
5:J:65:LEU:HA	5:J:68:GLU:HG3	1.93	0.51
6:K:70:LYS:C	6:K:73:LEU:HD12	2.34	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)
6:K:205:TYR:C	6:K:205:TYR:CD1	2.88	0.51
7:N:55:ARG:CG	7:N:56:SER:H	2.23	0.51
7:N:178:ALA:O	7:N:182:LYS:N	2.39	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:260:MET:HE3	10:Q:322:HIS:HD2	1.76	0.51
11:R:17:LEU:HD12	11:R:213:LEU:HA	1.93	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
23:l:18:GLU:OE1	23:l:20:ARG:CZ	2.59	0.51
5:x:365:GLU:HA	5:x:368:MET:HB3	1.92	0.51
3:z:110:TYR:C	3:z:110:TYR:CD1	2.89	0.51
4:0:143:GLU:C	4:0:145:LEU:N	2.65	0.51
4:0:347:ARG:HH11	4:0:347:ARG:CG	2.24	0.51
7:1:341:PHE:HE1	7:1:882:ALA:N	2.08	0.51
7:1:415:HIS:HB3	7:1:418:GLU:OE1	2.10	0.51
9:3:168:GLU:O	9:3:169:LEU:C	2.44	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
11:5:53:TYR:OH	11:5:150:PHE:CZ	2.57	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
13:7:335:LEU:CD2	15:9:303:MET:HE3	2.39	0.51
13:7:349:ILE:HD13	14:8:267:ARG:HH12	1.75	0.51
16:AA:54:LEU:HA	16:AA:58:CYS:CA	2.40	0.51
16:AA:142:ASN:ND2	16:AA:172:THR:HG23	2.24	0.51
18:AC:147:SER:HA	18:AC:186:THR:O	2.11	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:365:PHE:CZ	1:I:383:LEU:CB	2.94	0.51
2:H:174:TYR:HD2	2:H:184:ILE:HG21	1.74	0.51
2:H:369:ARG:HG2	2:H:369:ARG:O	2.11	0.51
2:H:374:ALA:HA	2:H:377:CYS:SG	2.50	0.51
3:L:314:LYS:HE2	3:L:328:TYR:CD2	2.45	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
5:J:67:GLN:O	5:J:68:GLU:C	2.53	0.51
5:J:175:PHE:N	5:J:175:PHE:HD1	2.09	0.51
6:K:95:ALA:HA	6:K:101:ALA:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
7:N:336:GLU:O	7:N:340:GLN:N	2.23	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
23:F:20:ARG:HB2	4:0:435:LEU:HD11	1.91	0.51
32:u:99:ARG:NH1	32:u:104:ASN:O	2.37	0.51
1:w:112:LEU:H	1:w:148:CYS:C	2.19	0.51
1:w:164:MET:HE3	5:x:78:ARG:NH1	2.22	0.51
1:w:283:PHE:CD1	1:w:328:ILE:HB	2.43	0.51
1:w:361:LYS:HE2	1:w:390:LEU:O	2.11	0.51
3:z:56:ILE:HD11	4:0:132:TYR:CE1	2.44	0.51
4:0:338:LEU:HD23	4:0:338:LEU:H	1.76	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
10:4:260:MET:HE3	10:4:322:HIS:HD2	1.76	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
15:9:234:TYR:O	15:9:235:SER:C	2.54	0.51
18:AC:697:ILE:O	18:AC:702:PRO:N	2.44	0.51
2:H:375:ARG:HE	23:l:173:ALA:HB2	1.74	0.51
2:H:413:VAL:O	2:H:417:ILE:HB	2.11	0.51
4:M:296:PHE:CD1	4:M:296:PHE:N	2.76	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
6:K:193:GLN:C	6:K:195:GLY:H	2.19	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
25:X:136:MET:HE2	25:X:148:LEU:HD11	1.92	0.51
25:X:170:GLN:HG2	3:z:372:ARG:HB2	1.92	0.51
31:f:187:VAL:CG2	27:p:24:MET:HE3	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:l:182:GLN:HA	24:m:56:LEU:HD11	1.92	0.51
24:m:159:MET:HE1	24:m:169:ARG:CZ	2.40	0.51
25:n:74:GLY:HA3	25:n:224:HIS:CD2	2.45	0.51
2:v:332:MET:O	2:v:333:ARG:O	2.29	0.51
1:w:199:GLU:O	1:w:203:LEU:HB3	2.10	0.51
1:w:232:LYS:N	1:w:353:PHE:CE2	2.78	0.51
5:x:137:LEU:HB2	5:x:224:ILE:HD11	1.93	0.51
3:z:277:MET:HE1	3:z:289:LEU:HD11	1.91	0.51
10:4:93:LEU:HD11	10:4:129:LEU:HD11	1.90	0.51
10:4:163:LYS:CD	10:4:200:ILE:CG2	2.61	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
10:4:233:TYR:C	10:4:233:TYR:CD1	2.89	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
18:AC:271:MET:C	18:AC:273:ASN:N	2.67	0.51
1:I:383:LEU:O	1:I:386:ALA:HB3	2.10	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
3:L:227:PRO:HA	3:L:272:ARG:HB3	1.93	0.51
6:K:91:GLN:OE1	6:K:127:ASN:CG	2.54	0.51
7:N:398:ASN:HB3	7:N:437:TYR:CE2	2.46	0.51
9:P:444:HIS:NE2	14:U:138:TYR:CZ	2.78	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
13:T:221:GLN:O	13:T:222:THR:C	2.54	0.51
13:T:345:GLN:C	13:T:349:ILE:HG13	2.18	0.51
14:U:57:PRO:HG2	15:V:101:GLN:HG2	1.93	0.51
14:U:110:GLU:HA	14:U:113:LYS:HE2	1.92	0.51
15:V:234:TYR:O	15:V:235:SER:C	2.54	0.51
19:B:103:TYR:O	19:B:103:TYR:HD1	1.94	0.51
20:C:198:PHE:CZ	20:C:206:ASN:CB	2.77	0.51
28:c:203:ARG:NH2	28:c:205:ASP:OD2	2.43	0.51
2:v:88:GLN:CA	2:v:91:GLN:HB2	2.38	0.51
2:v:193:THR:OG1	2:v:194:PRO:HD3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:261:PHE:CE1	2:v:306:LEU:HD13	2.44	0.51
2:v:284:ARG:CG	2:v:296:GLN:OE1	2.58	0.51
2:v:351:ARG:NE	2:v:377:CYS:O	2.43	0.51
1:w:173:VAL:HG13	5:x:232:ARG:CB	2.41	0.51
1:w:197:ILE:CG1	1:w:235:LEU:HD11	2.40	0.51
5:x:31:LEU:O	5:x:35:VAL:HG23	2.11	0.51
3:z:147:GLU:O	3:z:152:PRO:HD3	2.10	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
10:4:396:THR:HG1	15:9:242:GLU:CG	2.10	0.51
10:4:415:TYR:CE1	11:5:383:LEU:HB3	2.42	0.51
11:5:210:SER:C	11:5:212:GLU:H	2.19	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
1:I:424:GLU:HA	1:I:428:TYR:HD2	0.78	0.51
3:L:132:TYR:CE2	3:L:146:ARG:NE	2.79	0.51
3:L:198:VAL:C	3:L:200:SER:H	2.19	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
3:L:267:PHE:CE2	6:K:160:PRO:HG3	2.45	0.51
5:J:147:THR:CG2	5:J:150:MET:CE	2.82	0.51
5:J:376:VAL:HG23	5:J:377:HIS:N	2.26	0.51
6:K:194:ILE:HB	6:K:196:ILE:CD1	2.41	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
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
11:R:228:MET:HB3	11:R:259:TYR:OH	2.11	0.51
12:S:83:GLU:CB	17:Y:5:LYS:CB	2.88	0.51
13:T:349:ILE:HD13	14:U:267:ARG:HH12	1.75	0.51
14:U:58:PHE:C	14:U:58:PHE:CD1	2.87	0.51
18:Z:697:ILE:O	18:Z:702:PRO:N	2.44	0.51
21:D:11:ILE:HG23	22:E:18:GLN:HE22	1.75	0.51
23:l:18:GLU:OE1	23:l:20:ARG:NH1	2.44	0.51
23:l:121:LEU:CD1	24:m:77:LEU:CD2	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:369:ARG:HG2	2:v:369:ARG:O	2.11	0.51
1:w:108:SER:OG	1:w:153:ASN:O	2.21	0.51
1:w:237:LYS:HE3	5:x:281:ASP:O	2.11	0.51
1:w:401:GLU:HB3	1:w:422:SER:OG	2.11	0.51
5:x:150:MET:O	5:x:150:MET:HG3	2.09	0.51
5:x:154:LEU:HD21	5:x:317:PHE:CE2	2.46	0.51
5:x:211:PHE:CE1	5:x:247:PHE:HB2	2.45	0.51
6:y:205:TYR:C	6:y:205:TYR:CD1	2.88	0.51
4:0:252:ALA:HB1	4:0:254:PRO:HD2	1.92	0.51
4:0:415:LEU:HD23	4:0:415:LEU:N	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
9:3:150:ALA:O	9:3:162:ALA:HB1	2.10	0.51
10:4:212:MET:HE3	10:4:250:SER:CB	2.41	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
1:I:219:PRO:O	1:I:220:LYS:O	2.28	0.51
1:I:339:PRO:CG	2:H:425:ALA:HB1	2.36	0.51
3:L:126:ASP:OD1	4:M:320:PHE:CE2	2.64	0.51
4:M:88:TYR:CZ	4:M:161:LEU:HB2	2.46	0.51
4:M:212:PHE:CB	4:M:217:ILE:HD11	2.41	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:O	6:K:152:MET:HG2	2.11	0.51
6:K:268:ASP:O	6:K:272:THR:CG2	2.58	0.51
7:N:62:LEU:HD12	7:N:65:SER:HB2	1.91	0.51
7:N:164:GLU:HA	7:N:164:GLU:OE1	2.10	0.51
7:N:270:THR:C	7:N:272:GLY:H	2.20	0.51
7:N:738:ASP:HA	7:N:742:HIS:HB3	1.92	0.51
8:O:62:ASN:O	8:O:65:SER:OG	2.28	0.51
8:O:172:TYR:C	8:O:172:TYR:CD1	2.88	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:97:LEU:CD2	10:Q:136:LEU:HD11	2.41	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
11:R:21:GLN:HB2	11:R:286:TRP:HZ3	1.76	0.51
11:R:163:LYS:O	11:R:166:SER:OG	2.26	0.51
11:R:234:PRO:CD	11:R:235:ASP:N	2.71	0.51
11:R:344:HIS:ND1	11:R:359:PRO:HB3	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:U:263:ALA:CB	15:V:288:VAL:HG13	2.31	0.51
19:B:173:THR:O	19:B:176:THR:OG1	2.25	0.51
22:E:12:PRO:HA	23:F:26:TYR:CD1	2.45	0.51
30:e:44:THR:HG21	30:e:100:MET:HE3	1.93	0.51
19:h:38:THR:HB	19:h:53:GLN:HE21	1.76	0.51
2:v:224:LEU:CD2	2:v:227:ARG:HH11	2.19	0.51
1:w:392:GLY:O	33:w:501:ADP:C8	2.64	0.51
5:x:128:PRO:HD3	6:y:96:VAL:HG13	1.91	0.51
5:x:167:LEU:HB3	5:x:168:PRO:HD3	1.92	0.51
6:y:70:LYS:HE2	14:8:182:THR:HG21	1.93	0.51
6:y:100:THR:CG2	6:y:112:TYR:CD1	2.85	0.51
6:y:152:MET:O	6:y:152:MET:HG2	2.11	0.51
6:y:207:PRO:CG	6:y:335:LEU:CG	2.83	0.51
6:y:214:MET:SD	33:y:501:ADP:C2'	2.97	0.51
6:y:383:GLY:O	6:y:387:VAL:CG2	2.56	0.51
3:z:195:PHE:CE1	3:z:229:ILE:CG2	2.85	0.51
7:1:381:THR:HA	7:1:411:ILE:HG22	1.92	0.51
7:1:398:ASN:HB3	7:1:437:TYR:CE2	2.46	0.51
7:1:418:GLU:O	7:1:422:LEU:N	2.30	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
15:9:226:MET:HE3	15:9:227:GLU:CA	2.41	0.51
18:AC:259:PHE:O	18:AC:262:PHE:N	2.39	0.51
1:I:173:VAL:HG13	5:J:232:ARG:CB	2.41	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
2:H:261:PHE:CE1	2:H:306:LEU:HD13	2.44	0.50
3:L:101:ASP:O	3:L:105:LEU:HA	2.10	0.50
3:L:110:TYR:CD1	3:L:110:TYR:C	2.89	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
5:J:43:ARG:HE	6:K:57:GLN:HB3	1.75	0.50
5:J:154:LEU:HD21	5:J:317:PHE:CE2	2.46	0.50
5:J:232:ARG:HG3	5:J:232:ARG:HH11	1.75	0.50
6:K:65:GLN:CD	6:K:69:LYS:HZ2	2.19	0.50
6:K:98:GLN:HA	6:K:98:GLN:OE1	2.11	0.50
6:K:188:PHE:CE2	6:K:304:ASN:OD1	2.64	0.50
7:N:31:VAL:HG13	7:N:35:TRP:HB3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:180:SER:O	7:N:184:CYS:N	2.30	0.50
9:P:436:MET:HE1	14:U:201:LEU:HD13	1.93	0.50
9:P:446:ILE:HA	9:P:449:GLU:OE1	2.12	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
14:U:223:ASN:C	14:U:225:GLN:H	2.20	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
30:e:105:ASP:OD1	30:e:106:LYS:N	2.42	0.50
20:i:122:GLN:O	21:j:127:LYS:HD2	2.11	0.50
2:v:362:MET:CG	2:v:364:VAL:HG13	2.41	0.50
1:w:164:MET:O	1:w:166:ASP:N	2.44	0.50
1:w:417:GLU:HA	1:w:420:LYS:HB2	1.93	0.50
5:x:67:GLN:N	6:y:136:SER:OG	2.44	0.50
5:x:137:LEU:CB	5:x:224:ILE:CD1	2.86	0.50
6:y:91:GLN:OE1	6:y:127:ASN:CG	2.54	0.50
6:y:106:THR:HG21	3:z:78:ARG:HB2	1.92	0.50
6:y:115:ILE:HD12	6:y:121:ARG:HH12	1.64	0.50
6:y:162:VAL:HG13	6:y:214:MET:CE	2.29	0.50
6:y:258:ALA:CB	6:y:259:PRO:CD	2.88	0.50
3:z:227:PRO:HA	3:z:272:ARG:HB3	1.93	0.50
3:z:357:ALA:O	3:z:358:ASP:HB2	2.11	0.50
4:0:74:LYS:C	4:0:77:SER:HG	2.19	0.50
4:0:137:ILE:HG21	4:0:145:LEU:CD1	2.31	0.50
7:1:457:ILE:O	7:1:461:LEU:N	2.22	0.50
10:4:92:LEU:HD13	10:4:92:LEU:C	2.36	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
11:5:271:PHE:HZ	11:5:299:MET:HE3	1.73	0.50
12:6:83:GLU:CB	17:AB:5:LYS:CB	2.88	0.50
12:6:265:ASP:HA	12:6:268:GLU:CG	2.40	0.50
12:6:298:ILE:HG21	13:7:213:GLU:CG	2.42	0.50
12:6:472:PRO:CD	12:6:473:GLN:N	2.69	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
1:I:365:PHE:CZ	1:I:383:LEU:HB3	2.46	0.50
2:H:323:ARG:NH2	2:H:433:ASN:C	2.70	0.50
2:H:332:MET:O	2:H:333:ARG:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:314:LEU:CD2	4:M:342:LEU:HD21	2.32	0.50
5:J:148:TYR:CG	5:J:206:HIS:CD2	2.99	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
8:O:184:ASP:C	8:O:186:LYS:H	2.19	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:54:LEU:CA	16:W:58:CYS:HA	2.42	0.50
16:W:112:PHE:HA	16:W:141:ILE:HB	1.92	0.50
18:Z:147:SER:HA	18:Z:186:THR:O	2.11	0.50
27:b:29:LYS:NZ	28:c:151:GLU:OE2	2.32	0.50
31:f:153:VAL:HG13	31:f:166:LEU:HD22	1.90	0.50
31:t:148:LEU:HD23	31:t:178:VAL:HG12	1.93	0.50
2:v:102:ILE:HD13	2:v:120:LYS:CD	2.38	0.50
2:v:195:LEU:HD13	2:v:235:ALA:CB	2.42	0.50
5:x:172:PRO:O	5:x:176:GLU:HG3	2.11	0.50
5:x:232:ARG:HG3	5:x:232:ARG:HH11	1.75	0.50
5:x:376:VAL:HG23	5:x:377:HIS:N	2.26	0.50
6:y:93:LEU:CG	6:y:94:GLU:N	2.73	0.50
6:y:105:SER:HB3	6:y:109:SER:OG	2.10	0.50
6:y:387:VAL:CG2	3:z:162:VAL:HG21	2.37	0.50
6:y:394:VAL:CG1	6:y:398:ASP:OD2	2.59	0.50
3:z:199:VAL:O	3:z:233:ASP:O	2.29	0.50
3:z:354:ALA:CB	3:z:362:VAL:HG22	2.41	0.50
4:0:397:LYS:O	4:0:400:CYS:HB3	2.11	0.50
4:0:413:THR:OG1	4:0:414:GLU:OE2	2.30	0.50
10:4:146:ALA:O	10:4:147:LEU:C	2.55	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
18:AC:762:VAL:O	18:AC:766:GLN:N	2.31	0.50
3:L:138:LEU:C	3:L:140:GLU:N	2.39	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
5:J:31:LEU:O	5:J:35:VAL:HG23	2.11	0.50
5:J:207:THR:HG23	5:J:207:THR:O	2.12	0.50
7:N:27:LEU:O	7:N:31:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:442:GLY:HA2	7:N:445:ALA:HB3	1.91	0.50
7:N:601:ARG:HH11	7:N:601:ARG:HG3	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:406:VAL:HG12	9:P:407:ASP:C	2.36	0.50
9:P:419:LYS:CB	9:P:423:ASN:HD22	2.24	0.50
10:Q:97:LEU:HD22	10:Q:136:LEU:HD11	1.94	0.50
14:U:48:LEU:HD12	14:U:120:VAL:HG21	1.93	0.50
15:V:226:MET:HE3	15:V:227:GLU:CA	2.41	0.50
15:V:266:THR:HB	15:V:267:PRO:CD	2.41	0.50
29:d:170:ARG:NH1	30:s:136:TYR:CE1	2.80	0.50
21:j:11:ILE:HG23	22:k:18:GLN:HE22	1.76	0.50
2:v:323:ARG:NH2	2:v:433:ASN:C	2.70	0.50
1:w:95:GLU:O	1:w:99:VAL:HG23	2.11	0.50
1:w:424:GLU:HA	1:w:428:TYR:HD2	0.78	0.50
5:x:67:GLN:O	5:x:68:GLU:C	2.53	0.50
5:x:160:GLU:HB2	5:x:315:ILE:CD1	2.09	0.50
3:z:61:LEU:HD11	3:z:78:ARG:HG3	1.93	0.50
3:z:325:GLU:OE1	3:z:363:VAL:CG2	2.53	0.50
4:0:258:GLN:HG3	4:0:263: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
9:3:436:MET:HE1	14:8:201:LEU:HD13	1.93	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
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
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
3:L:155:ASN:N	3:L:156:PRO:HD2	2.25	0.50
3:L:199:VAL:HG11	4:M:315:ASN:CG	2.35	0.50
3:L:354:ALA:CB	3:L:362:VAL:HG22	2.41	0.50
4:M:220:PRO:HB3	4:M:349:ASP:OD2	2.11	0.50
4:M:251:LEU:CD2	4:M:256:LEU:HD21	2.38	0.50
4:M:397:LYS:O	4:M:400:CYS:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:96:VAL:HG21	6:K:112:TYR:CD1	2.45	0.50
6:K:129:SER:O	6:K:143:LEU:HB2	2.10	0.50
7:N:528:ALA:O	7:N:532:MET:N	2.31	0.50
9:P:63:THR:O	9:P:67:LEU:HB2	2.11	0.50
9:P:216:GLU:O	9:P:220:GLU:HG3	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:145:VAL:HG22	15:V:157:ILE:CD1	2.42	0.50
15:V:150:SER:OG	15:V:156:VAL:CG1	2.57	0.50
20:C:94:GLN:HG3	27:b:65:LEU:HD13	1.93	0.50
27:b:59:ILE:HD12	27:b:82:MET:HB3	1.93	0.50
20:i:198:PHE:CZ	20:i:206:ASN:CB	2.80	0.50
24:m:40:SER:HB3	24:m:187:LEU:HD22	1.93	0.50
2:v:355:PHE:HE2	2:v:373:LEU:HB3	1.75	0.50
1:w:107:MET:HE2	1:w:151:LEU:HD22	1.92	0.50
5:x:43:ARG:O	5:x:46:GLN:HB2	2.11	0.50
5:x:193:GLY:O	5:x:356:GLY:N	2.44	0.50
5:x:247:PHE:CD1	5:x:292:ILE:HG21	2.40	0.50
6:y:93:LEU:HG	6:y:94:GLU:H	1.77	0.50
6:y:194:ILE:HG22	6:y:194:ILE:O	2.10	0.50
6:y:287:ARG:O	6:y:290:LEU:N	2.44	0.50
6:y:354:LEU:HD21	6:y:399:PHE:HZ	1.75	0.50
3:z:67:GLU:HA	3:z:83:CYS:SG	2.52	0.50
7:1:616:ARG:NH2	7:1:647:HIS:HA	2.27	0.50
8:2:57:ILE:O	8:2:61:GLU:N	2.36	0.50
8:2:285:PRO:HA	8:2:286:ALA:O	2.11	0.50
9:3:44:ILE:O	9:3:48:LEU:HD12	2.12	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
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
18:AC:227:ALA:C	18:AC:229:VAL:H	2.20	0.50
2:H:216:GLY:O	2:H:322:ASN:HA	2.11	0.50
2:H:246:VAL:CG2	2:H:295:VAL:HG13	2.41	0.50
3:L:67:GLU:HA	3:L:83:CYS:SG	2.52	0.50
3:L:166:PRO:CB	3:L:274:LYS:HZ3	2.23	0.50
3:L:215:ILE:HG21	3:L:260:LEU:HD23	1.94	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
4:M:415:LEU:HD23	4:M:415:LEU:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:14:LEU:HD11	15:V:40:LYS:HA	1.92	0.50
14:U:174:HIS:O	14:U:174:HIS:ND1	2.43	0.50
16:W:19:GLY:HA2	16:W:25:ARG:N	2.25	0.50
20:C:122:GLN:O	21:D:127:LYS:HD2	2.11	0.50
21:D:11:ILE:HG23	22:E:18:GLN:NE2	2.27	0.50
29:d:27:GLN:NE2	29:r:169:LYS:O	2.44	0.50
25:n:136:MET:HE2	25:n:148:LEU:HD11	1.93	0.50
26:o:42:PHE:CD1	26:o:179:ILE:HD11	2.47	0.50
2:v:351:ARG:CA	2:v:354:ILE:HD12	2.34	0.50
2:v:368:ILE:O	2:v:368:ILE:HG13	2.12	0.50
2:v:386:ARG:HH21	1:w:345:GLY:HA2	1.77	0.50
1:w:116:ILE:HB	1:w:118:ASP:CG	2.36	0.50
5:x:65:LEU:HA	5:x:68:GLU:HG3	1.93	0.50
6:y:95:ALA:HA	6:y:101:ALA:CB	2.41	0.50
6:y:353:ASN:HB2	6:y:393:ILE:HG12	1.94	0.50
6:y:393:ILE:HG22	6:y:394:VAL:N	2.26	0.50
3:z:58:GLY:CA	3:z:74:THR:CG2	2.59	0.50
3:z:132:TYR:CE2	3:z:146:ARG:NE	2.79	0.50
3:z:132:TYR:CD1	3:z:132:TYR:N	2.77	0.50
3:z:191:LEU:CD1	3:z:195:PHE:HZ	2.25	0.50
3:z:309:ARG:O	3:z:313:LEU:N	2.39	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
7:1:660:CYS:C	7:1:694:ILE:HG12	2.35	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
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
16:AA:113:VAL:HB	16:AA:142:ASN:HA	1.93	0.50
1:I:132:TYR:OH	2:H:153:LEU:CD1	2.59	0.50
1:I:199:GLU:HG2	1:I:203:LEU:HD22	1.94	0.50
2:H:193:THR:OG1	2:H:194:PRO:HD3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:277:ILE:HD12	2:H:278:ASP:N	2.26	0.50
3:L:178:THR:O	3:L:301:ILE:HG22	2.12	0.50
5:J:291:VAL:O	5:J:291:VAL:CG2	2.57	0.50
6:K:383:GLY:O	6:K:387:VAL:CG2	2.56	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
10:Q:212:MET:HE3	10:Q:250:SER:CB	2.41	0.50
10:Q:412:ASP:O	10:Q:416:ASN:CG	2.50	0.50
11:R:185:GLY:O	11:R:201:PHE:CZ	2.52	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
13:T:254:GLU:CG	13:T:255:SER:N	2.65	0.50
15:V:130:GLN:HG3	15:V:162:LEU:HD23	1.93	0.50
2:v:300:LEU:HA	2:v:303:ILE:HD12	1.93	0.50
2:v:413:VAL:O	2:v:417:ILE:HB	2.11	0.50
1:w:199:GLU:HG2	1:w:203:LEU:HD22	1.94	0.50
1:w:223:ILE:HG13	1:w:347:ILE:HD13	1.94	0.50
5:x:137:LEU:HB2	5:x:224:ILE:CD1	2.41	0.50
5:x:148:TYR:CG	5:x:206:HIS:CD2	2.99	0.50
5:x:175:PHE:N	5:x:175:PHE:HD1	2.09	0.50
3:z:176:PRO:C	4:0:344:ARG:HD3	2.31	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
9:3:406:VAL:HG12	9:3:407:ASP:C	2.36	0.50
11:5:186:LEU:HD11	11:5:287:LEU:CD1	2.40	0.50
12:6:480:ILE:CB	13:7:342:TYR:CZ	2.89	0.50
13:7:104:ARG:O	13:7:108:ASN:CB	2.59	0.50
14:8:138:TYR:CD1	14:8:157:HIS:HA	2.46	0.50
1:I:114:GLU:C	1:I:115:ILE:HG13	2.36	0.50
1:I:401:GLU:HB3	1:I:422:SER:OG	2.11	0.50
2:H:88:GLN:HA	2:H:91:GLN:HG3	1.93	0.50
2:H:122:VAL:O	4:M:88:TYR:HB2	2.12	0.50
4:M:249:LEU:CD2	4:M:283:ILE:CD1	2.87	0.50
5:J:88:LYS:HB2	5:J:94:LYS:CG	2.37	0.50
5:J:91:PRO:C	5:J:92:GLU:O	2.55	0.50
5:J:151:ILE:O	5:J:151:ILE:CG2	2.59	0.50
7:N:7:GLY:CA	13:T:170:GLN:HG2	2.21	0.50
7:N:418:GLU:CD	7:N:418:GLU:H	2.19	0.50
8:O:360:VAL:HG11	14:U:202:ASN:HB2	1.94	0.50
10:Q:146:ALA:O	10:Q:147:LEU:C	2.55	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
19:h:25:VAL:HG12	19:h:29:PHE:HE1	1.77	0.50
30:s:105:ASP:OD1	30:s:106:LYS:N	2.42	0.50
2:v:126:SER:CA	2:v:149:ILE:O	2.59	0.50
2:v:172:VAL:CG1	2:v:224:LEU:CD2	2.67	0.50
2:v:306:LEU:HD12	2:v:312:ARG:HH21	1.76	0.50
2:v:397:ILE:O	2:v:399:ALA:O	2.30	0.50
1:w:223:ILE:CG1	1:w:347:ILE:HD13	2.42	0.50
1:w:251:VAL:HB	1:w:254:GLU:CG	2.42	0.50
1:w:404:LEU:O	1:w:408:ARG:HB2	2.11	0.50
1:w:409:GLU:CD	1:w:411:ARG:NH2	2.69	0.50
5:x:147:THR:HG23	5:x:150:MET:CE	2.34	0.50
6:y:51:LEU:HA	6:y:54:LEU:HD23	1.93	0.50
6:y:82:ILE:HD13	6:y:82:ILE:C	2.37	0.50
6:y:109:SER:CB	6:y:111:TYR:CZ	2.91	0.50
6:y:179:GLU:O	6:y:184:PRO:HG3	2.10	0.50
6:y:212:LYS:HE3	33:y:501:ADP:O2B	2.10	0.50
6:y:395:LEU:H	6:y:398:ASP:CG	2.19	0.50
6:y:403:TYR:CG	6:y:407:ILE:HD11	2.47	0.50
3:z:199:VAL:CB	4:0:315:ASN:ND2	2.75	0.50
3:z:223:ARG:O	3:z:226:GLN:HG3	2.10	0.50
4:0:76:ASN:O	4:0:80:ILE:HG13	2.12	0.50
4:0:175:MET:HG2	4:0:251:LEU:HB2	1.94	0.50
4:0:299:GLU:O	4:0:300:LYS:HB2	2.10	0.50
4:0:375:VAL:C	4:0:414:GLU:HG2	2.35	0.50
7:1:164:GLU:HA	7:1:164:GLU:OE1	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
14:8:48:LEU:HD12	14:8:120:VAL:HG21	1.93	0.50
14:8:252:LYS:HA	14:8:252:LYS:CE	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
1:I:343:ARG:NH1	33:H:501:ADP:H5'2	2.27	0.50
2:H:99:THR:CB	2:H:142:VAL:HG21	2.33	0.50
2:H:101:ILE:HA	2:H:113:ILE:HG12	1.94	0.50
3:L:241:ARG:HH11	3:L:241:ARG:CG	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:264:MET:SD	3:L:275:MET:HE2	2.46	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:91:SER:O	4:M:151:VAL:CG2	2.58	0.50
4:M:175:MET:HG2	4:M:251:LEU:HB2	1.94	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
7:N:350:LEU:HA	7:N:376:MET:HE1	1.94	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:23:PHE:HA	14:U:35:VAL:HG21	1.93	0.50
14:U:283:ARG:HG2	14:U:283:ARG:NH1	2.27	0.50
20:C:200:GLY:CA	6:y:338:ARG:HH21	2.21	0.50
2:v:101:ILE:HA	2:v:113:ILE:HG12	1.94	0.50
2:v:246:VAL:CG2	2:v:295:VAL:HG13	2.41	0.50
2:v:332:MET:HG3	2:v:340:LYS:HE3	1.94	0.50
2:v:413:VAL:CG1	2:v:417:ILE:HD12	2.32	0.50
1:w:269:GLU:O	1:w:273:VAL:CG2	2.53	0.50
5:x:42:LEU:O	5:x:45:LEU:N	2.45	0.50
5:x:222:LYS:HB3	6:y:286:GLN:NE2	2.20	0.50
5:x:307:ARG:HB3	5:x:307:ARG:CZ	2.42	0.50
6:y:71:GLU:OE2	6:y:74:HIS:HD2	1.93	0.50
6:y:188:PHE:CE2	6:y:304:ASN:OD1	2.64	0.50
6:y:299:PHE:CD1	6:y:303:VAL:CG1	2.95	0.50
6:y:348:ILE:HB	6:y:379:CYS:SG	2.52	0.50
3:z:241:ARG:HH11	3:z:241:ARG:CG	2.25	0.50
3:z:253:ILE:HD12	4:0:308:ARG:HH12	1.77	0.50
3:z:264:MET:HG2	3:z:275:MET:CE	2.41	0.50
4:0:88:TYR:CZ	4:0:161:LEU:HB2	2.46	0.50
4:0:212:PHE:CB	4:0:217:ILE:HD11	2.41	0.50
4:0:435:LEU:CD2	4:0:438:TYR:CD1	2.95	0.50
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:506:GLU:O	12:6:507:SER:C	2.55	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
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
1:I:342:ILE:CG2	2:H:423:PHE:HB3	2.30	0.50
3:L:199:VAL:CB	4:M:315:ASN:ND2	2.75	0.50
7:N:67:VAL:O	7:N:71:LEU:HG	2.12	0.50
7:N:423:MET:HE3	7:N:445:ALA:HB1	1.87	0.50
7:N:622:LEU:O	7:N:626:LEU:N	2.38	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
19:B:103:TYR:HE1	27:b:85:GLN:NE2	2.09	0.50
24:m:212:ILE:HD11	24:m:229:VAL:HG13	1.93	0.50
32:u:9:THR:OG1	32:u:10:SER:N	2.44	0.50
2:v:216:GLY:O	2:v:322:ASN:HA	2.11	0.50
1:w:171:VAL:CG1	1:w:277:HIS:NE2	2.73	0.50
5:x:41:ASN:HA	5:x:44:ARG:CB	2.39	0.50
5:x:71:SER:O	6:y:111:TYR:HB3	2.11	0.50
5:x:91:PRO:C	5:x:92:GLU:O	2.55	0.50
5:x:151:ILE:O	5:x:151:ILE:CG2	2.59	0.50
5:x:283:PHE:O	5:x:284:GLU:HB3	2.10	0.50
6:y:98:GLN:HA	6:y:98:GLN:OE1	2.11	0.50
3:z:244:SER:N	3:z:245:GLU:CA	2.74	0.50
3:z:265:ASP:O	3:z:266:GLY:C	2.53	0.50
4:0:153:VAL:CG1	4:0:158:TYR:CA	2.79	0.50
4:0:226:TYR:CD2	4:0:335:VAL:HG21	2.42	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
7:1:270:THR:C	7:1:272:GLY:H	2.20	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
8:2:184:ASP:C	8:2:186:LYS:H	2.19	0.50
10:4:23:SER:HA	10:4:26:ILE:CB	2.42	0.50
10:4:320:SER:C	10:4:322:HIS:H	2.20	0.50
11:5:31:HIS:O	11:5:32:ARG:HB2	2.12	0.50
11:5:259:TYR:CE1	11:5:260:LEU:HB2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:183:PRO:CG	13:7:183:PRO:O	2.60	0.50
13:7:339:VAL:CG1	15:9:296:ILE:HG23	2.39	0.50
14:8:96:HIS:CE1	14:8:100:LYS:O	2.62	0.50
1:I:164:MET:HE3	5:J:78:ARG:NH1	2.22	0.49
1:I:223:ILE:CG1	1:I:347:ILE:HD13	2.42	0.49
3:L:213:ARG:HH11	3:L:213:ARG:HG2	1.77	0.49
4:M:74:LYS:C	4:M:77:SER:HG	2.19	0.49
4:M:262:GLY:O	4:M:266:LYS:HB2	2.12	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:435:LEU:HD13	23:l:20:ARG:HD3	1.93	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:51:LEU:HA	6:K:54:LEU:HD23	1.93	0.49
6:K:249:ASP:O	6:K:253:LEU:N	2.27	0.49
7:N:35:TRP:CB	7:N:67:VAL:HG22	2.42	0.49
7:N:370:VAL:HG12	7:N:370:VAL:O	2.11	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
13:T:258:PHE:CG	13:T:259:PHE:N	2.79	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:OD1	25:X:17:ASP:N	2.44	0.49
29:d:58:GLU:OE1	30:e:81:LYS:NZ	2.33	0.49
32:g:192:VAL:CG1	32:g:197:VAL:HG22	2.42	0.49
20:i:204:GLU:OE1	20:i:226:LYS:HE2	2.11	0.49
2:v:88:GLN:HA	2:v:91:GLN:CB	2.41	0.49
2:v:102:ILE:O	2:v:103:ASN:CB	2.59	0.49
2:v:273:PHE:HD1	2:v:318:LEU:HB3	1.77	0.49
2:v:424:SER:C	2:v:426:THR:N	2.70	0.49
1:w:118:ASP:C	1:w:120:HIS:N	2.68	0.49
5:x:173:GLU:O	5:x:177:ALA:N	2.41	0.49
5:x:194:THR:C	33:x:501:ADP:C8	2.90	0.49
5:x:295:THR:OG1	5:x:296:ASN:N	2.43	0.49
6:y:171:ASP:OD1	6:y:171:ASP:N	2.44	0.49
6:y:193:GLN:C	6:y:195:GLY:H	2.19	0.49
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
7:1:350:LEU:HA	7:1:376:MET:HE1	1.94	0.49
7:1:505:ASP:C	7:1:544:ILE:HD11	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
15:9:251:LEU:HD12	15:9:283:HIS:HB3	1.87	0.49
15:9:267:PRO:CD	15:9:268:GLU:N	2.68	0.49
1:I:117:ASP:OD1	1:I:117:ASP:N	2.45	0.49
1:I:164:MET:CE	5:J:78:ARG:HH12	2.22	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
2:H:99:THR:HG21	2:H:142:VAL:CB	2.37	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:209:PRO:CG	4:M:405:MET:HE1	2.42	0.49
2:H:355:PHE:HE2	2:H:373:LEU:CB	2.25	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
5:J:194:THR:C	33:J:501:ADP:C8	2.90	0.49
6:K:61:ILE:CD1	7:N:639:LEU:HD11	2.42	0.49
6:K:205:TYR:CB	6:K:314:ALA:HB2	2.42	0.49
7:N:505:ASP:C	7:N:544:ILE:HD11	2.37	0.49
7:N:618:ALA:O	7:N:622:LEU:HG	2.12	0.49
10:Q:259:ILE:CG2	10:Q:326:LEU:HD11	2.41	0.49
10:Q:320:SER:C	10:Q:322:HIS:H	2.20	0.49
11:R:183:TYR:CE1	11:R:213:LEU:HD21	2.46	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
25:X:170:GLN:CG	3:z:372:ARG:CB	2.90	0.49
26:a:42:PHE:CD1	26:a:179:ILE:HD11	2.47	0.49
19:h:191:PHE:CE1	19:h:219:VAL:HG21	2.47	0.49
23:l:91:LYS:HE3	23:l:119:LEU:HD21	1.93	0.49
30:s:12:VAL:HB	30:s:179:VAL:HB	1.94	0.49
2:v:99:THR:OG1	2:v:140:VAL:CG2	2.60	0.49
2:v:153:LEU:CD1	1:w:132:TYR:OH	2.59	0.49
2:v:355:PHE:HE2	2:v:373:LEU:CB	2.25	0.49
1:w:102:LEU:HD13	1:w:136:LEU:HD22	1.95	0.49
1:w:393:ALA:O	1:w:394:ASP:C	2.54	0.49
5:x:161:ILE:O	5:x:165:ILE:N	2.43	0.49
6:y:173:GLN:HE21	6:y:333:PHE:HA	1.76	0.49
6:y:205:TYR:CD1	6:y:332:GLU:HA	2.48	0.49
6:y:394:VAL:HG11	6:y:398:ASP:HB3	1.87	0.49
3:z:116:ASP:OD1	3:z:117:PRO:HD2	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:210:GLU:OE1	3:z:213:ARG:NH2	2.45	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
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
13:7:280:GLU:O	13:7:316:TYR:HA	2.12	0.49
14:8:94:TRP:O	14:8:121:LEU:HD12	2.12	0.49
14:8:283:ARG:HG2	14:8:283:ARG:NH1	2.27	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
1:I:95:GLU:O	1:I:99:VAL:HG23	2.11	0.49
2:H:90:GLU:CA	2:H:93:LEU:HB2	2.42	0.49
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
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
6:K:374:ASP:O	6:K:377:SER:N	2.39	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
9:P:173:THR:OG1	9:P:176:SER:OG	2.21	0.49
10:Q:23:SER:HA	10:Q:26:ILE:CB	2.42	0.49
10:Q:61:GLY:C	10:Q:64:ALA:H	2.20	0.49
10:Q:239:TYR:CB	10:Q:247:ALA:N	2.75	0.49
14:U:79:TYR:C	14:U:79:TYR:CD1	2.91	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
15:V:248:MET:CE	15:V:288:VAL:HG23	2.40	0.49
18:Z:227:ALA:C	18:Z:229:VAL:H	2.20	0.49
21:D:155:ASN:CG	22:E:77:THR:OG1	2.54	0.49
23:F:91:LYS:HE3	23:F:119:LEU:HD21	1.94	0.49
32:g:9:THR:OG1	32:g:10:SER:N	2.46	0.49
20:i:201:GLN:O	20:i:203:THR:HG23	2.12	0.49
31:t:145:LEU:HD22	31:t:178:VAL:HB	1.95	0.49
1:w:230:THR:HG23	1:w:353:PHE:C	2.18	0.49
5:x:154:LEU:HD22	5:x:317:PHE:CE2	2.47	0.49
6:y:207:PRO:CB	6:y:335:LEU:HD22	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:249:ASP:O	6:y:253:LEU:N	2.27	0.49
3:z:215:ILE:HG21	3:z:260:LEU:HD23	1.94	0.49
4:0:308:ARG:HA	4:0:311:LEU:HB2	1.95	0.49
4:0:387:CYS:SG	4:0:424:ILE:CD1	3.01	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
7:1:130:LEU:O	7:1:134:VAL:N	2.26	0.49
7:1:418:GLU:CD	7:1:418:GLU:H	2.19	0.49
8:2:360:VAL:HG11	14:8:202:ASN:HB2	1.94	0.49
9:3:317:TRP:CH2	9:3:351:TRP:HZ3	2.29	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
1:I:197:ILE:CG1	1:I:235:LEU:HD11	2.40	0.49
1:I:259:TYR:OH	6:K:276:ASP:OD1	2.30	0.49
1:I:361:LYS:HE2	1:I:390:LEU:O	2.11	0.49
2:H:99:THR:OG1	2:H:140:VAL:CG2	2.60	0.49
2:H:101:ILE:HD11	2:H:140:VAL:HG11	1.93	0.49
2:H:345:LEU:HD23	2:H:345:LEU:N	2.26	0.49
3:L:253:ILE:CG1	4:M:308:ARG:HH22	2.14	0.49
4:M:223:VAL:HG13	4:M:352:ILE:HG12	1.95	0.49
5:J:79:ALA:O	5:J:80:MET:HG3	2.10	0.49
5:J:247:PHE:C	5:J:248:MET:CG	2.84	0.49
6:K:162:VAL:HG13	6:K:214:MET:CE	2.29	0.49
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:79:ASP:O	11:R:82:LYS:HB3	2.12	0.49
11:R:197:ALA:O	11:R:201:PHE:HD2	1.96	0.49
13:T:330:ILE:HG21	13:T:334:GLU:CD	2.24	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
18:Z:272:LEU:C	18:Z:274:ASP:N	2.68	0.49
19:B:109:ILE:HD13	19:B:114:LEU:HG	1.93	0.49
25:X:99:ARG:NH1	32:g:69:GLN:OE1	2.43	0.49
26:a:14:LEU:HD21	26:a:101:ALA:HB3	1.93	0.49
22:k:12:PRO:HA	23:l:26:TYR:CD1	2.46	0.49
1:w:227:PRO:HB3	1:w:228:PRO:HD2	1.95	0.49
1:w:284:ILE:O	1:w:329:MET:HA	2.13	0.49
1:w:287:ILE:HG21	1:w:329:MET:CE	2.43	0.49
6:y:194:ILE:HB	6:y:196:ILE:CD1	2.41	0.49
6:y:372:GLY:CA	6:y:375:ILE:HD12	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:204:LEU:CB	4:0:205:PRO:HD3	2.42	0.49
4:0:249:LEU:CB	4:0:283:ILE:HG12	2.41	0.49
7:1:67:VAL:O	7:1:71:LEU:HG	2.12	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
7:1:906: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
11:5:259:TYR:CD1	11:5:259:TYR:C	2.88	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
15:9:55:GLY:HA3	15:9:112:TYR:CE1	2.48	0.49
16:AA:2:VAL:C	16:AA:44:ASN:HD22	2.17	0.49
16:AA:16:MET:C	16:AA:18:ASN:H	2.19	0.49
1:I:249:ARG:O	5:J:232:ARG:NH2	2.43	0.49
1:I:393:ALA:O	1:I:394:ASP:C	2.54	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
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
7:N:69:TYR:HE1	12:S:240:LEU:HD21	1.77	0.49
7:N:377:HIS:ND1	7:N:382:SER:HB3	2.28	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
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
16:W:12:ASN:HA	16:W:16:MET:HB2	1.94	0.49
20:C:67:ILE:HG21	20:C:109:LEU:HD21	1.95	0.49
22:E:96:LEU:HG	29:d:62:LYS:CG	2.41	0.49
23:l:36:THR:HA	23:l:171:GLY:HA3	1.95	0.49
24:m:103:LEU:HD12	24:m:104:PRO:HD2	1.93	0.49
2:v:59:ILE:O	2:v:63:THR:N	2.30	0.49
1:w:223:ILE:HD11	1:w:347:ILE:CG2	2.34	0.49
6:y:70:LYS:CA	6:y:73:LEU:HD12	2.42	0.49
6:y:102:ILE:N	6:y:102:ILE:HD12	2.28	0.49
3:z:149:ILE:O	3:z:153:LEU:HD23	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:286:ASP:OD1	3:z:287:PRO:HD2	2.13	0.49
4:0:171:ARG:NH1	4:0:263:ASP:OD1	2.46	0.49
4:0:286:ASP:C	4:0:287:GLU:HG2	2.38	0.49
4:0:369:HIS:N	4:0:369:HIS:ND1	2.60	0.49
7:1:451:ALA:HA	7:1:484:ALA:HA	1.93	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
10:4:297:ARG:CD	10:4:333:GLN:HB3	2.41	0.49
10:4:400:ALA:HB2	14:8:262:LEU:HD11	1.94	0.49
11:5:28:LEU:HB2	11:5:31:HIS:CG	2.47	0.49
11:5:286:TRP:CD1	11:5:287:LEU:HD13	2.48	0.49
12:6:322:VAL:O	12:6:325:LYS:N	2.46	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
2:H:89:SER:C	2:H:92:PRO:HD2	2.34	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
3:L:149:ILE:O	3:L:153:LEU:HD23	2.12	0.49
3:L:173:TYR:O	3:L:173:TYR:CG	2.66	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
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
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:472:PRO:CB	12:S:476:PHE:CE2	2.78	0.49
16:W:16:MET:C	16:W:18:ASN:H	2.19	0.49
18:Z:671:ALA:O	18:Z:675:PHE:CA	2.53	0.49
21:D:49:ARG:NH2	21:D:58:GLU:OE2	2.31	0.49
31:t:191:ASP:O	31:t:212:LYS:NZ	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:209:PRO:CG	4:0:405:MET:HE1	2.42	0.49
3:z:126:ASP:OD1	4:0:320:PHE:CE2	2.64	0.49
3:z:155:ASN:N	3:z:156:PRO:HD2	2.25	0.49
3:z:172:LEU:HD13	3:z:180:LYS:CA	2.42	0.49
3:z:172:LEU:HD13	3:z:180:LYS:HG2	1.95	0.49
3:z:181:THR:OG1	33:z:401:ADP:O3B	2.23	0.49
3:z:317:ALA:CB	3:z:347:CYS:SG	2.94	0.49
3:z:335:SER:HB3	3:z:338:PHE:HD2	1.78	0.49
7:1:11:LEU:CD2	13:7:120:LYS:CG	2.88	0.49
7:1:17:PRO:O	7:1:54:PHE:HE2	1.95	0.49
7:1:470:ASN:H	7:1:474:ARG:HB3	1.66	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
8:2:325:ASP:OD1	9:3:372:ARG:HB2	2.11	0.49
9:3:390:GLU:O	9:3:394:SER:OG	2.26	0.49
10:4:193:ALA:C	10:4:196:THR:HG22	2.38	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
13:7:284:PHE:H	13:7:313:ASN:CG	2.21	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
14:8:223:ASN:C	14:8:225:GLN:H	2.20	0.49
16:AA:12:ASN:HA	16:AA:16:MET:HB2	1.94	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
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
2:H:378:PRO:HG2	23:l:33:LEU:CD2	2.38	0.49
4:M:373:MET:HE3	4:M:415:LEU:CD1	2.27	0.49
5:J:154:LEU:HD22	5:J:317:PHE:CE2	2.47	0.49
5:J:199:LEU:HD22	5:J:317:PHE:CE2	2.47	0.49
6:K:82:ILE:HD13	6:K:82:ILE:C	2.37	0.49
10:Q:86:ALA:O	10:Q:90:ARG:HB2	2.12	0.49
10:Q:193:ALA:C	10:Q:196:THR:HG22	2.38	0.49
12:S:356:SER:O	12:S:359:PRO:HD2	2.13	0.49
14:U:35:VAL:O	14:U:96:HIS:HA	2.13	0.49
14:U:81:MET:HG3	15:V:91:PHE:CE1	2.47	0.49
14:U:94:TRP:O	14:U:121:LEU:HD12	2.12	0.49
14:U:122:VAL:HG22	14:U:137:ALA:CA	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:V:71:ASP:OD2	15:V:104:ARG:HD2	2.13	0.49
15:V:304:LEU:O	15:V:308:VAL:HG23	2.13	0.49
30:e:12:VAL:HB	30:e:179:VAL:HB	1.93	0.49
21:j:155:ASN:CG	22:k:77:THR:OG1	2.56	0.49
2:v:101:ILE:HD11	2:v:140:VAL:HG11	1.93	0.49
2:v:209:PRO:CG	2:v:339:ARG:CG	2.83	0.49
33:v:501:ADP:H5'2	1:w:343:ARG:NH1	2.27	0.49
1:w:117:ASP:OD1	1:w:117:ASP:N	2.45	0.49
1:w:170:LEU:HD11	1:w:269:GLU:CG	2.43	0.49
1:w:200:SER:HA	1:w:219:PRO:HG3	1.83	0.49
1:w:228:PRO:HB2	5:x:307:ARG:CG	2.42	0.49
1:w:331:THR:HG21	1:w:337:LEU:HD21	1.94	0.49
5:x:228:ALA:O	5:x:229:ARG:HB2	2.13	0.49
6:y:205:TYR:CB	6:y:314:ALA:HB2	2.42	0.49
3:z:213:ARG:HB3	3:z:213:ARG:CZ	2.42	0.49
3:z:251:ARG:O	3:z:255:ARG:CG	2.57	0.49
4:0:378:ASP:O	4:0:417:HIS:HB2	2.12	0.49
7:1:35:TRP:HE3	7:1:67:VAL:HG13	1.78	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
9:3:51:GLU:CD	9:3:66:ILE:CB	2.86	0.49
9:3:150:ALA:CB	9:3:166:LEU:HD23	2.43	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
1:I:109:VAL:HG13	1:I:149:SER:OG	2.13	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:O	2:H:368:ILE:HG13	2.12	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:347:ARG:HH11	4:M:347:ARG:CG	2.24	0.49
6:K:70:LYS:CA	6:K:73:LEU:HD12	2.42	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
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
20:C:227:ASP:OD2	10:4:84:LYS:HD3	2.13	0.49
23:F:31:ILE:HD11	23:F:158:PRO:CD	2.43	0.49
31:f:169:ASP:OD2	31:f:173:ARG:NH2	2.46	0.49
21:j:49:ARG:NH2	21:j:58:GLU:OE2	2.30	0.49
26:o:84:LYS:HG3	26:o:120:MET:HB2	1.95	0.49
32:u:192:VAL:CG1	32:u:197:VAL:HG22	2.43	0.49
2:v:114:ASN:HA	2:v:120:LYS:HA	1.94	0.49
2:v:277:ILE:CD1	2:v:278:ASP:N	2.76	0.49
2:v:299:MET:O	2:v:303:ILE:N	2.34	0.49
2:v:315:ILE:N	2:v:315:ILE:CD1	2.69	0.49
2:v:416:VAL:O	2:v:417:ILE:O	2.30	0.49
5:x:133:PRO:CG	5:x:237:MET:HE3	2.26	0.49
5:x:199:LEU:HD22	5:x:317:PHE:CE2	2.47	0.49
6:y:52:GLU:HA	6:y:55:GLU:HB2	1.95	0.49
3:z:166:PRO:CB	3:z:274:LYS:HZ3	2.24	0.49
3:z:198:VAL:C	3:z:200:SER:H	2.19	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
10:4:86:ALA:O	10:4:90:ARG:HB2	2.12	0.49
10:4:243:ASP:C	10:4:245:PRO:HD3	2.38	0.49
10:4:296:ASN:O	10:4:337:ARG:NH2	2.46	0.49
13:7:221:GLN:O	13:7:222:THR:C	2.54	0.49
14:8:33:LYS:HG3	14:8:34:ARG:N	2.28	0.49
14:8:106:ILE:HG13	14:8:155:PHE:CZ	2.48	0.49
15:9:89:PRO:CD	15:9:90:VAL:N	2.71	0.49
1:I:365:PHE:HD1	1:I:380:LEU:HD22	1.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
5:J:64:GLN:O	5:J:67:GLN:HB2	2.13	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
6:K:172:ILE:O	6:K:176:GLU:N	2.44	0.49
6:K:202:VAL:N	6:K:307:VAL:O	2.39	0.49
6:K:299:PHE:CD1	6:K:303:VAL:CG1	2.95	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:O	14:U:46:LYS:CG	2.61	0.49
14:U:79:TYR:C	14:U:79:TYR:HD1	2.21	0.49
15:V:57:MET:HE2	15:V:69:VAL:HG21	1.94	0.49
19:B:38:THR:HG21	19:B:171:LYS:HB2	1.93	0.49
20:C:67:ILE:O	27:b:68:LEU:HD21	2.13	0.49
20:C:191:ILE:CG2	20:C:229:LEU:CD2	2.91	0.49
24:G:166:GLN:HE21	4:0:383:GLU:CA	2.25	0.49
30:e:10:HIS:HD2	30:e:149:VAL:HG23	1.78	0.49
30:e:136:TYR:CE1	29:r:170:ARG:NH1	2.80	0.49
23:l:31:ILE:HD11	23:l:158:PRO:CD	2.42	0.49
2:v:174:TYR:HD2	2:v:184:ILE:HG21	1.74	0.49
2:v:332:MET:O	2:v:333:ARG:C	2.56	0.49
5:x:55:LYS:O	5:x:59:LEU:CB	2.55	0.49
6:y:334:PRO:O	6:y:334:PRO:HD2	2.13	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
7:1:764:LEU:O	7:1:767:THR:OG1	2.28	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
10:4:2:ALA:N	10:4:33:ARG:CB	2.76	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
10:4:400:ALA:HB1	14:8:262:LEU:HD11	1.95	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
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
1:I:334:ILE:HD12	1:I:337:LEU:HD23	1.94	0.49
2:H:150:HIS:C	2:H:151:ILE:CG1	2.86	0.49
3:L:113:ARG:HG3	3:L:113:ARG:NH1	2.23	0.49
3:L:122:MET:HE1	3:L:218:MET:SD	2.53	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
5:J:137:LEU:HB2	5:J:224:ILE:CD1	2.41	0.49
5:J:161:ILE:HD11	5:J:199:LEU:HG	1.91	0.49
6:K:102:ILE:N	6:K:102:ILE:HD12	2.28	0.49
6:K:162:VAL:CG1	6:K:214:MET:HE2	2.42	0.49
6:K:188:PHE:HE2	6:K:304:ASN:OD1	1.96	0.49
6:K:300:ASP:C	6:K:302:ASN:H	2.21	0.49
6:K:322:LEU:HD13	6:K:330:LYS:CE	2.42	0.49
7:N:35:TRP:HE3	7:N:67:VAL:HG13	1.78	0.49
7:N:490:ARG:O	7:N:519:VAL:HG21	2.13	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:233:TYR:C	10:Q:233:TYR:CD1	2.89	0.49
10:Q:339:ILE:O	10:Q:387:ILE:HD12	2.12	0.49
12:S:322:VAL:O	12:S:325:LYS:N	2.46	0.49
13:T:183:PRO:CG	13:T:183:PRO:O	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
24:G:166:GLN:CD	4:0:386:ARG:NH2	2.71	0.49
2:v:160:THR:HG21	2:v:256:MET:SD	2.53	0.49
5:x:147:THR:CG2	5:x:150:MET:CE	2.82	0.49
5:x:149:GLU:O	5:x:150:MET:HB3	2.13	0.49
5:x:320:PRO:O	5:x:325:ARG:CZ	2.53	0.49
5:x:326:LEU:CD1	5:x:345:ARG:CG	2.91	0.49
5:x:348:ALA:HA	5:x:351:MET:HB2	1.94	0.49
6:y:172:ILE:O	6:y:176:GLU:N	2.44	0.49
3:z:178:THR:O	3:z:301:ILE:HG22	2.12	0.49
3:z:213:ARG:HH11	3:z:213:ARG:HG2	1.77	0.49
7:1:341:PHE:CE2	7:1:743:ASN:HB3	2.48	0.49
7:1:517:GLY:HA3	7:1:554:LEU:HD12	1.94	0.49
8:2:341:LEU:HA	8:2:345:GLN:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:N	14:8:168:GLU:OE1	2.44	0.49
14:8:263:ALA:HB3	15:9:292:MET:SD	2.53	0.49
15:9:57:MET:HE2	15:9:69:VAL:HG21	1.94	0.49
16:AA:52:ILE:HA	16:AA:60:VAL:HA	1.95	0.49
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
2:H:59:ILE:O	2:H:63:THR:N	2.30	0.48
2:H:215:PHE:CZ	2:H:342:GLU:HG2	2.48	0.48
2:H:291:GLY:C	2:H:293:ASN:H	2.16	0.48
2:H:362:MET:CE	2:H:364:VAL:HG12	2.26	0.48
4:M:139:LEU:O	4:M:140:VAL:CB	2.60	0.48
4:M:198:LEU:HD12	4:M:240:CYS:SG	2.49	0.48
4:M:223:VAL:HG12	4:M:224:LEU:H	1.76	0.48
4:M:250:LYS:HA	4:M:284:PHE:HB3	1.95	0.48
4:M:282:ILE:HG23	4:M:329:ILE:HD12	1.94	0.48
5:J:348:ALA:HA	5:J:351:MET:HB2	1.94	0.48
6:K:95:ALA:HB2	6:K:101:ALA:HB2	1.94	0.48
6:K:287:ARG:O	6:K:291:GLU:N	2.30	0.48
7:N:341:PHE:CE2	7:N:743:ASN:HB3	2.48	0.48
7:N:517:GLY:HA3	7:N:554:LEU:HD12	1.94	0.48
8:O:70:ARG:HB2	16:W:17:ARG:HH22	1.77	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
9:P:168:GLU:C	9:P:170:GLN:N	2.66	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
11:R:314:LEU:C	11:R:314:LEU:HD12	2.38	0.48
12:S:411:SER:HB3	12:S:447:ILE:HD12	1.95	0.48
14:U:29:VAL:HG22	14:U:33:LYS:HB3	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
16:W:10:VAL:HG12	16:W:112:PHE:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:776:LEU:HA	18:Z:827:PRO:C	2.38	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:v:201:PHE:H	2:v:201:PHE:HD1	1.58	0.48
2:v:347:ASP:CG	2:v:348:LEU:N	2.71	0.48
1:w:107:MET:HE1	1:w:151:LEU:CG	2.43	0.48
6:y:303:VAL:HG12	6:y:305:VAL:CG2	2.43	0.48
4:0:121:CYS:O	4:0:122:ALA:HB2	2.13	0.48
7:1:69:TYR:HE1	12:6:240:LEU:HD21	1.77	0.48
7:1:592:GLY:N	7:1:624:PHE:O	2.44	0.48
7:1:616:ARG:NE	7:1:650:TYR:CG	2.74	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
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
1:I:107:MET:HE1	1:I:151:LEU:CG	2.43	0.48
1:I:271:PHE:CB	1:I:315:GLN:CD	2.86	0.48
2:H:102:ILE:O	2:H:103:ASN:CB	2.59	0.48
2:H:202:VAL:C	2:H:204:LEU:N	2.70	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
3:L:101:ASP:HB3	3:L:105:LEU:N	2.29	0.48
3:L:223:ARG:NH1	3:L:223:ARG:HG3	2.28	0.48
3:L:252:GLU:HA	3:L:255:ARG:NH2	2.28	0.48
4:M:215:LEU:CD2	4:M:217:ILE:HG22	2.36	0.48
4:M:369:HIS:ND1	4:M:369:HIS:N	2.60	0.48
6:K:52:GLU:HA	6:K:55:GLU:HB2	1.95	0.48
6:K:265:ASP:O	6:K:266:GLU:HB2	2.13	0.48
6:K:395:LEU:H	6:K:398:ASP:CG	2.19	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:243:ASP:C	10:Q:245:PRO:HD3	2.38	0.48
10:Q:336:ILE:C	10:Q:340:GLU:HG3	2.33	0.48
11:R:123:ALA:O	11:R:126:LYS:HG3	2.13	0.48
11:R:210:SER:C	11:R:212:GLU:H	2.19	0.48
14:U:122:VAL:HG13	14:U:136:GLU:C	2.38	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:G:103:LEU:HD12	24:G:104:PRO:HD2	1.95	0.48
24:G:170:THR:HG21	4:0:383:GLU:OE2	2.13	0.48
29:d:180:VAL:HG21	29:d:194:ILE:HG12	1.95	0.48
31:f:35:ILE:CD1	27:p:167:LEU:HD21	2.43	0.48
19:h:159:TYR:HE1	19:h:161:CYS:HB2	1.78	0.48
2:v:122:VAL:O	4:0:88:TYR:HB2	2.12	0.48
2:v:273:PHE:HD1	2:v:318:LEU:CB	2.26	0.48
2:v:319:MET:SD	2:v:337:LEU:CD1	2.83	0.48
1:w:109:VAL:HG13	1:w:149:SER:OG	2.13	0.48
1:w:249:ARG:O	5:x:232:ARG:NH2	2.43	0.48
5:x:130:LYS:C	5:x:131:VAL:CG2	2.78	0.48
5:x:355:SER:H	5:x:358:GLU:HB2	1.78	0.48
6:y:95:ALA:HB2	6:y:101:ALA:HB2	1.94	0.48
6:y:119:ILE:HD12	6:y:119:ILE:H	1.78	0.48
6:y:205:TYR:C	6:y:205:TYR:HD1	2.21	0.48
3:z:40:TYR:O	3:z:44:GLU:CB	2.61	0.48
3:z:132:TYR:HD1	3:z:133:SER:N	2.11	0.48
3:z:148:VAL:HG11	3:z:170:CYS:SG	2.52	0.48
3:z:252:GLU:HA	3:z:255:ARG:NH2	2.28	0.48
3:z:281:ARG:O	3:z:281:ARG:HG3	2.13	0.48
4:0:217:ILE:CG1	4:0:218:GLN:N	2.53	0.48
4:0:250:LYS:HA	4:0:284:PHE:HB3	1.95	0.48
4:0:284:PHE:CD1	4:0:284:PHE:C	2.86	0.48
4:0:351:LYS:O	4:0:352:ILE:HD13	2.13	0.48
7:1:7:GLY:O	7:1:11:LEU:N	2.31	0.48
7:1:138:PHE:O	7:1:142:LEU:N	2.41	0.48
9:3:179:LYS:HA	9:3:182:ARG:HB3	1.95	0.48
10:4:66:LEU:CB	10:4:109:LEU:HD13	2.40	0.48
11:5:79:ASP:O	11:5:82:LYS:HB3	2.12	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:HB2	11:5:371:LYS:NZ	2.28	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
1:I:236:ALA:HB2	1:I:283:PHE:CE1	2.49	0.48
2:H:87:LEU:O	2:H:91:GLN:N	2.46	0.48
2:H:102:ILE:O	2:H:103:ASN:HB3	2.14	0.48
2:H:218:PRO:CG	2:H:429:TYR:CD2	2.96	0.48
3:L:143:ARG:HG2	3:L:147:GLU:CD	2.33	0.48
3:L:216:ARG:HH22	6:K:234:GLU:CA	2.26	0.48
3:L:320:ILE:O	3:L:322:LYS:HD2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:J:29:GLU:HB3	6:K:44:TYR:CE2	2.48	0.48
5:J:320:PRO:HG3	5:J:355:SER:CA	2.34	0.48
6:K:119:ILE:HD12	6:K:119:ILE:H	1.78	0.48
6:K:205:TYR:C	6:K:205:TYR:HD1	2.21	0.48
6:K:407:ILE:O	6:K:409:LYS:N	2.42	0.48
7:N:198:LEU:C	7:N:201:LEU:CG	2.86	0.48
9:P:82:LEU:O	9:P:86:ASN:CB	2.62	0.48
27:b:167:LEU:HD21	31:t:35:ILE:CD1	2.44	0.48
20:i:67:ILE:HG21	20:i:109:LEU:HD21	1.95	0.48
5:x:29:GLU:HB3	6:y:44:TYR:CE2	2.48	0.48
5:x:64:GLN:O	5:x:67:GLN:HB2	2.13	0.48
5:x:66:LEU:HD11	6:y:116:LEU:HD21	1.96	0.48
6:y:61:ILE:CD1	7:1:639:LEU:HD11	2.42	0.48
6:y:151:ILE:C	6:y:152:MET:SD	2.96	0.48
6:y:296:MET:HE1	6:y:307:VAL:HG21	1.96	0.48
6:y:370:ILE:HG23	6:y:374:ASP:CB	2.40	0.48
3:z:331:ILE:HG23	3:z:371:VAL:CG2	2.43	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
14:8:122:VAL:HG13	14:8:136:GLU:C	2.38	0.48
15:9:248:MET:HE3	15:9:284:LEU:CA	2.40	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: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
2:H:332:MET:O	2:H:333:ARG:C	2.56	0.48
3:L:172:LEU:CD1	3:L:180:LYS:CA	2.92	0.48
4:M:90:VAL:O	4:M:127:SER:OG	2.12	0.48
4:M:376:SER:HB3	4:M:414:GLU:CD	2.33	0.48
4:M:435:LEU:CD1	23:l:20:ARG:CD	2.92	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:100:THR:HG22	6:K:112:TYR:CD1	2.48	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: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
7:N:5:ALA:HB2	7:N:34:PHE:HB3	1.94	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:749:GLN:HB2	7:N:755:THR:HA	1.96	0.48
10:Q:400:ALA:HB2	14:U:262:LEU:HD11	1.94	0.48
11:R:205:VAL:HG11	11:R:245:GLU:HB2	1.94	0.48
11:R:221:THR:CG2	11:R:253:LEU:HD11	2.40	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
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
22:E:36:ARG:HA	22:E:41:VAL:HG12	1.94	0.48
28:q:203:ARG:NH2	28:q:205:ASP:OD2	2.44	0.48
31:t:169:ASP:OD2	31:t:173:ARG:NH2	2.46	0.48
2:v:112:ILE:HA	2:v:122:VAL:HA	1.95	0.48
1:w:246:THR:HG1	1:w:280:SER:CB	2.24	0.48
1:w:292:THR:O	1:w:292:THR:OG1	2.29	0.48
6:y:251:PHE:CD2	6:y:295:GLN:HB3	2.49	0.48
6:y:354:LEU:CD2	6:y:399:PHE:HZ	2.26	0.48
3:z:122:MET:HE1	3:z:218:MET:SD	2.53	0.48
4:0:206:MET:SD	4:0:206:MET:C	2.97	0.48
4:0:264:GLY:HA3	4:0:309:THR:HG22	1.95	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
7:1:470: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
11:5:27:SER:O	11:5:28:LEU:C	2.54	0.48
11:5:188:CYS:HB3	11:5:193:ASP:O	2.13	0.48
12:6:82:LEU:HA	12:6:85:ALA:HB3	1.96	0.48
13:7:346:LEU:HD21	15:9:292:MET:CE	2.42	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
1:I:140:ASP:OD2	1:I:142:ASP:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:M:223:VAL:CG1	4:M:224:LEU:H	2.27	0.48
6:K:93:LEU:HG	6:K:94:GLU:H	1.77	0.48
7:N:11:LEU:CD2	13:T:120:LYS:CG	2.88	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:470:ASN:C	7:N:474:ARG:HB3	2.38	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:51:GLU:CD	9:P:66:ILE:CB	2.86	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
13:T:318:PHE:HA	13:T:319:ALA:C	2.39	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
19:B:107:TYR:O	19:B:108:GLU:C	2.56	0.48
24:G:40:SER:HB3	24:G:187:LEU:HD22	1.93	0.48
28:c:164:PHE:CE1	28:c:198:ARG:HD2	2.49	0.48
29:d:35:MET:HG2	29:d:45:LEU:HD13	1.95	0.48
32:g:177:TYR:CE1	32:g:185:ASN:HB2	2.49	0.48
1:w:271:PHE:CB	1:w:315:GLN:CD	2.86	0.48
1:w:329:MET:HG3	1:w:347:ILE:HD13	1.94	0.48
6:y:244:PRO:HB3	6:y:248:ARG:NH1	2.28	0.48
6:y:248:ARG:O	6:y:252:ARG:CB	2.55	0.48
6:y:283:ARG:O	6:y:287:ARG:CD	2.61	0.48
6:y:300:ASP:C	6:y:302:ASN:H	2.21	0.48
3:z:135:ILE:HG21	3:z:182:LEU:HG	1.95	0.48
3:z:245:GLU:O	4:0:300:LYS:O	2.32	0.48
3:z:304:PRO:CA	3:z:308:ALA:HB3	2.43	0.48
4:0:139:LEU:O	4:0:140:VAL:CB	2.60	0.48
4:0:343:LEU:HB3	4:0:351:LYS:NZ	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:119:PRO:O	7:1:120:GLU:HG2	2.13	0.48
7:1:198:LEU:C	7:1:201:LEU:CG	2.86	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
8:2:366:LEU:O	8:2:366:LEU:HG	2.12	0.48
13:7:318:PHE:HA	13:7:319:ALA:C	2.39	0.48
13:7:342:TYR:O	13:7:346:LEU:N	2.45	0.48
14:8:46:LYS:CG	14:8:46:LYS:O	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
1:I:108:SER:N	1:I:152:LEU:O	2.47	0.48
1:I:116:ILE:HB	1:I:118:ASP:CG	2.36	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
4:M:206:MET:HB2	4:M:327:LYS:HZ2	1.76	0.48
4:M:391:PHE:O	4:M:392:ASN:C	2.55	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
6:K:372:GLY:CA	6:K:375:ILE:HD12	2.39	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
9:P:448:LYS:CE	14:U:154:THR:HG1	2.22	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:37:VAL:O	11:R:40:GLU:HB3	2.13	0.48
11:R:192:ARG:HH12	11:R:294:TYR:HB2	1.79	0.48
11:R:219:PHE:CE1	11:R:223:THR:HG23	2.48	0.48
16:W:37:CYS:HA	16:W:40:LYS:HB2	1.96	0.48
20:C:31:GLY:HA2	6:y:418:LYS:HB2	1.96	0.48
25:n:49:VAL:HB	25:n:212:GLU:HB2	1.96	0.48
2:v:102:ILE:O	2:v:103:ASN:HB3	2.14	0.48
1:w:114:GLU:C	1:w:121:ALA:HB1	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:115:ILE:C	1:w:116:ILE:HG12	2.38	0.48
1:w:234:LEU:HG	33:w:501:ADP:C2'	2.39	0.48
1:w:256:ILE:HD11	1:w:290:ILE:HA	1.96	0.48
1:w:387:LYS:HD2	1:w:387:LYS:HA	1.62	0.48
5:x:97:VAL:HB	5:x:121:TYR:O	2.13	0.48
5:x:309:GLY:O	5:x:310:ARG:HB2	2.13	0.48
6:y:190:LEU:HA	6:y:194:ILE:HG13	1.96	0.48
3:z:172:LEU:HD13	3:z:180:LYS:CB	2.43	0.48
3:z:210:GLU:O	3:z:210:GLU:HG3	2.13	0.48
3:z:322:LYS:HD3	3:z:326:ILE:CD1	2.33	0.48
4:0:90:VAL:HG23	4:0:127:SER:HG	1.78	0.48
4:0:205:PRO:HA	4:0:212:PHE:CE2	2.48	0.48
4:0:262:GLY:O	4:0:266:LYS:HB2	2.12	0.48
7:1:423:MET:HE3	7:1:445:ALA:HB1	1.87	0.48
7:1:475:HIS:HB2	7:1:507:VAL:HG22	1.95	0.48
7:1:482:GLY:O	7:1:486:MET:N	2.47	0.48
7:1:482:GLY:HA3	7:1:515:ALA:HB1	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
12:6:220:PHE:O	12:6:221:LEU:C	2.57	0.48
18:AC:668:ALA:CB	18:AC:701:ASN:CB	2.87	0.48
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
2:H:166:VAL:O	2:H:166:VAL:HG23	2.12	0.48
2:H:362:MET:HG3	2:H:364:VAL:HG13	1.96	0.48
3:L:331:ILE:HG23	3:L:371:VAL:HG21	1.96	0.48
4:M:206:MET:SD	4:M:206:MET:C	2.97	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
5:J:86:LEU:CD1	5:J:86:LEU:C	2.87	0.48
6:K:90:GLY:O	6:K:130:VAL:HG23	2.02	0.48
6:K:109:SER:CB	6:K:111:TYR:CZ	2.91	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
12:S:506:GLU:O	12:S:507:SER:C	2.55	0.48
13:T:141:LEU:HD12	13:T:142:ILE:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W:4:GLU:HB2	16:W:106:LYS:C	2.39	0.48
25:X:186:CYS:O	25:X:190:VAL:HG23	2.14	0.48
29:r:180:VAL:HG21	29:r:194:ILE:HG12	1.96	0.48
2:v:218:PRO:CG	2:v:429:TYR:CD2	2.96	0.48
1:w:365:PHE:CZ	1:w:383:LEU:CD1	2.97	0.48
5:x:104:ASP:HB3	5:x:106:ASN:H	1.79	0.48
6:y:162:VAL:CG1	6:y:214:MET:HE2	2.42	0.48
3:z:173:TYR:O	3:z:173:TYR:CG	2.66	0.48
3:z:223:ARG:NH1	3:z:223:ARG:HG3	2.28	0.48
3:z:346:VAL:CG2	3:z:374:VAL:HG11	2.44	0.48
7:1:336:GLU:O	7:1:340:GLN:N	2.23	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
11:5:224:VAL:C	11:5:227:SER:HG	2.20	0.48
11:5:234:PRO:CD	11:5:235:ASP:N	2.71	0.48
14:8:30:GLY:HA3	14:8:127:LYS:HZ1	1.79	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
1:I:191:ASP:O	1:I:192:ASN:C	2.57	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
2:H:166:VAL:O	2:H:166:VAL:CG2	2.62	0.48
2:H:273:PHE:HD1	2:H:318:LEU:HB3	1.77	0.48
2:H:277:ILE:CD1	2:H:278:ASP:N	2.76	0.48
3:L:244:SER:N	3:L:245:GLU:CA	2.74	0.48
4:M:249:LEU:CB	4:M:283:ILE:HG12	2.41	0.48
4:M:286:ASP:C	4:M:287:GLU:HG2	2.38	0.48
5:J:78:ARG:HH11	5:J:80:MET:HG2	1.74	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
7:N:528:ALA:O	7:N:532:MET:HG2	2.13	0.48
8:O:43:ASP:O	8:O:46:GLN:HB2	2.14	0.48
8:O:371:ALA:HB2	13:T:340:ILE:CG2	2.26	0.48
9:P:286:LEU:O	9:P:290:ILE:HG12	2.13	0.48
9:P:343:SER:C	9:P:348:GLU:HB2	2.39	0.48
9:P:344:THR:CA	9:P:348:GLU:CB	2.67	0.48
10:Q:87:ARG:NH2	20:i:227:ASP:OD1	2.47	0.48
10:Q:200:ILE:C	10:Q:200:ILE:CD1	2.87	0.48
10:Q:369:ILE:HD12	10:Q:376:GLY:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:S:372:LEU:HD11	12:S:399:ARG:NH1	2.28	0.48
14:U:263:ALA:HB3	15:V:292:MET:SD	2.53	0.48
15:V:38:LEU:O	15:V:41:MET:HB3	2.13	0.48
15:V:309:PHE:O	15:V:310:LYS:HG2	2.13	0.48
18:Z:209:MET:O	18:Z:241:PRO:HA	2.14	0.48
20:C:100:TYR:HE1	28:c:90:MET:HE2	1.79	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
28:q:169:GLN:O	28:q:173:ASN:ND2	2.46	0.48
30:s:10:HIS:HD2	30:s:149:VAL:HG23	1.78	0.48
1:w:197:ILE:CG2	1:w:198:LYS:H	2.26	0.48
1:w:259:TYR:OH	6:y:276:ASP:OD1	2.30	0.48
1:w:354:PRO:O	1:w:354:PRO:HD2	2.14	0.48
6:y:90:GLY:O	6:y:130:VAL:HG23	2.02	0.48
6:y:265:ASP:O	6:y:266:GLU:HB2	2.13	0.48
6:y:289:LEU:O	6:y:293:LEU:N	2.34	0.48
3:z:141:GLN:HA	3:z:144:GLU:HB3	1.96	0.48
4:0:223:VAL:HG12	4:0:224: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
14:8:79:TYR:C	14:8:79:TYR:HD1	2.22	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
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
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
3:L:245:GLU:O	4:M:300:LYS:O	2.32	0.48
3:L:346:VAL:CG2	3:L:374:VAL:HG11	2.44	0.48
4:M:358:ASN:O	4:M:362:ARG:HG3	2.13	0.48
5:J:60:ARG:HB2	6:K:75:ALA:HB1	1.96	0.48
5:J:80:MET:SD	5:J:86:LEU:HB2	2.54	0.48
5:J:228:ALA:O	5:J:229:ARG:HB2	2.13	0.48
6:K:54:LEU:HG	6:K:55:GLU:N	2.28	0.48
6:K:123:LEU:HD22	6:K:125:LYS:HZ1	1.78	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
7:N:482:GLY:O	7:N:486:MET:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:Q:73:VAL:O	10:Q:77:LEU:N	2.45	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
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:487:HIS:O	12:S:491:VAL:CG2	2.49	0.48
13:T:89:GLN:HB3	13:T:115:GLU:OE1	2.14	0.48
13:T:284:PHE:H	13:T:313:ASN:CG	2.21	0.48
13:T:342:TYR:O	13:T:346:LEU:N	2.45	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
24:G:71:GLY:HA3	24:G:221:PHE:CZ	2.48	0.48
29:d:1:MET:HE2	29:d:134:TYR:CD2	2.49	0.48
31:f:166:LEU:H	31:f:166:LEU:HG	1.48	0.48
20:i:67:ILE:O	27:p:68:LEU:HD21	2.13	0.48
21:j:171:ALA:HB2	21:j:200:THR:HG21	1.95	0.48
2:v:120:LYS:HB2	4:0:90:VAL:HG22	1.96	0.48
2:v:126:SER:HB3	2:v:149:ILE:O	2.14	0.48
2:v:150:HIS:C	2:v:151:ILE:CG1	2.86	0.48
2:v:166:VAL:O	2:v:166:VAL:HG23	2.12	0.48
2:v:425:ALA:HB1	1:w:339:PRO:CG	2.36	0.48
1:w:66:GLU:O	1:w:70:ASP:N	2.42	0.48
1:w:112:LEU:CB	1:w:148:CYS:H	2.24	0.48
1:w:170:LEU:CD1	1:w:269:GLU:CG	2.92	0.48
1:w:225:TYR:CA	1:w:331:THR:O	2.52	0.48
1:w:285:ASP:OD1	1:w:330:ALA:HB1	2.13	0.48
5:x:60:ARG:HB2	6:y:75:ALA:HB1	1.96	0.48
5:x:184:LYS:CE	5:x:281:ASP:OD1	2.57	0.48
5:x:207:THR:HG23	5:x:207:THR:O	2.12	0.48
5:x:346:LYS:CE	5:x:380:GLN:HE22	2.27	0.48
3:z:151:LEU:C	3:z:153:LEU:N	2.67	0.48
3:z:152:PRO:HA	3:z:159:PHE:CE2	2.49	0.48
3:z:205:ASP:O	4:0:261:ILE:O	2.32	0.48
3:z:331:ILE:HG23	3:z:371:VAL:HG21	1.96	0.48
4:0:416:THR:O	4:0:420:TYR:CD2	2.67	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:366:HIS:NE2	7:1:392:TRP:CD2	2.82	0.48
7:1:377:HIS:ND1	7:1:382:SER:HB3	2.28	0.48
7:1:470:ASN:C	7:1:474:ARG:HB3	2.38	0.48
7:1:792:ASN:CG	7:1:916:ASP:HB2	2.39	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:HG2	11:5:192:ARG:NH1	2.27	0.48
12:6:487:HIS:ND1	12:6:487:HIS:C	2.72	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:4:GLU:HB2	16:AA:106:LYS:C	2.39	0.48
16:AA:37:CYS:HA	16:AA:40:LYS:HB2	1.96	0.48
1:I:114:GLU:C	1:I:121:ALA:HB1	2.39	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
2:H:161:VAL:CG1	2:H:263:MET:SD	3.02	0.48
3:L:338:PHE:CE1	3:L:375:ALA:CB	2.89	0.48
4:M:308:ARG:HA	4:M:311:LEU:HB2	1.95	0.48
5:J:43:ARG:CG	6:K:61:ILE:HG13	2.43	0.48
5:J:66:LEU:HD11	6:K:116:LEU:HD21	1.96	0.48
6:K:151:ILE:C	6:K:152:MET:SD	2.96	0.48
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
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:O	8:O:366:LEU:HG	2.12	0.48
8:O:374:ILE:CG1	13:T:347:GLU:CD	2.87	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:31:HIS:O	11:R:32:ARG:HB2	2.12	0.48
11:R:53:TYR:O	11:R:54:TYR:C	2.57	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:320:ALA:HB1	11:R:325:VAL:O	2.14	0.48
12:S:115:LYS:O	12:S:116:ALA:HB2	2.13	0.48
12:S:220:PHE:O	12:S:221:LEU:C	2.57	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:68:THR:HA	16:W:71:ILE:HD12	1.95	0.48
16:W:97:LEU:HD11	16:W:109:ILE:HG13	1.96	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
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
27:b:193:ASN:HB3	31:t:211:ARG:NH2	2.28	0.48
28:c:169:GLN:O	28:c:173:ASN:ND2	2.47	0.48
31:f:160:ASN:O	31:f:160:ASN:ND2	2.45	0.48
24:m:212:ILE:HD12	24:m:229:VAL:HG22	1.95	0.48
28:q:164:PHE:CE1	28:q:198:ARG:HD2	2.49	0.48
2:v:102:ILE:HD13	2:v:120:LYS:HD3	1.92	0.48
2:v:129:VAL:HG23	2:v:129:VAL:O	2.13	0.48
2:v:202:VAL:C	2:v:204:LEU:N	2.70	0.48
2:v:215:PHE:CZ	2:v:342:GLU:HG2	2.48	0.48
2:v:277:ILE:HD12	2:v:278:ASP:N	2.26	0.48
1:w:307:ARG:O	1:w:310:LEU:N	2.47	0.48
5:x:72:TYR:O	5:x:116:LEU:HB3	2.13	0.48
5:x:189:TYR:HB2	5:x:298:ILE:HG13	1.96	0.48
6:y:80:LYS:HA	6:y:80:LYS:HD3	1.69	0.48
6:y:99:ASN:O	6:y:100:THR:OG1	2.24	0.48
6:y:181:VAL:HG13	6:y:306:LYS:HG3	1.96	0.48
6:y:251:PHE:CD2	6:y:295:GLN:CB	2.97	0.48
6:y:380:GLN:O	6:y:384:MET:SD	2.71	0.48
3:z:172:LEU:CD1	3:z:180:LYS:HB3	2.44	0.48
4:0:94:ILE:O	4:0:147:PRO:HG3	2.14	0.48
4:0:249:LEU:HD23	4:0:283:ILE:HD11	1.95	0.48
7:1:152:GLY:O	7:1:155:LEU:HB3	2.14	0.48
7:1:423:MET:C	7:1:427:LEU:HG	2.39	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
9:3:439: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
11:5:314:LEU:HD12	11:5:314:LEU:C	2.38	0.48
14:8:79:TYR:C	14:8:79:TYR:CD1	2.91	0.48
18:AC:552:ASP:O	18:AC:555:ALA:HB3	2.14	0.48
18:AC:776:LEU:HA	18:AC:827:PRO:C	2.38	0.48
1:I:275:GLU:CB	1:I:322:ARG:NH1	2.75	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:120:LYS:HB2	4:M:90:VAL:HG22	1.96	0.47
6:K:166:ASP:O	33:K:501:ADP:C2	2.67	0.47
7:N:97:VAL:HA	7:N:100:ILE:HG12	1.96	0.47
7:N:616:ARG:CD	7:N:650:TYR:CE2	2.97	0.47
8:O:153:SER:O	8:O:157:ASP:HB2	2.14	0.47
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
14:U:178:ASP:C	14:U:179:ILE:HG13	2.39	0.47
16:W:124:LEU:HA	16:W:127:LEU:HD12	1.95	0.47
24:m:41:LYS:HG3	24:m:42:THR:HG23	1.94	0.47
2:v:208:PRO:O	2:v:210:LYS:HG3	2.14	0.47
2:v:297:ARG:O	2:v:300:LEU:N	2.46	0.47
1:w:108:SER:HB3	1:w:154:HIS:ND1	2.29	0.47
1:w:152:LEU:HD13	1:w:157:HIS:HB3	1.96	0.47
5:x:332:HIS:CE1	5:x:360:LYS:HD2	2.48	0.47
6:y:162:VAL:HG11	6:y:214:MET:HE2	1.93	0.47
6:y:348:ILE:HG21	6:y:379:CYS:HB2	1.96	0.47
3:z:122:MET:CE	3:z:218:MET:HG3	2.39	0.47
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
8:2:374:ILE:CG1	13:7:347:GLU:CD	2.87	0.47
9:3:344:THR:C	9:3:348:GLU:HB2	2.39	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
15:9:93:ALA:HA	15:9:96:LEU:HB2	1.94	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
15:9:240:HIS:C	15:9:244:VAL:HG23	2.38	0.47
17:AB:51:ASP:OD1	17:AB:51:ASP:N	2.47	0.47
1:I:108:SER:HB3	1:I:154:HIS:ND1	2.29	0.47
1:I:180:PRO:HG3	1:I:240:ALA:CA	2.40	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
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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:10:SER:CB	13:T:170:GLN:CD	2.87	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:439:VAL:O	9:P:443:THR:HG23	2.14	0.47
10:Q:66:LEU:HA	10:Q:109:LEU:HD13	1.95	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
11:R:286:TRP:NE1	11:R:287:LEU:CD1	2.78	0.47
14:U:6:VAL:HG23	14:U:7:GLN:N	2.29	0.47
14:U:140:SER:HA	14:U:154:THR:O	2.14	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
21:D:116:ASP:OD1	22:E:81:ARG:NH1	2.47	0.47
22:k:36:ARG:HA	22:k:41:VAL:HG12	1.96	0.47
2:v:87:LEU:O	2:v:91:GLN:N	2.47	0.47
2:v:344:SER:O	2:v:346:PRO:HD3	2.14	0.47
1:w:132:TYR:C	1:w:133:VAL:HG13	2.40	0.47
5:x:363:CYS:HA	5:x:383:PHE:CE1	2.49	0.47
3:z:205:ASP:OD2	3:z:210:GLU:CG	2.61	0.47
4:0:251:LEU:CD2	4:0:256:LEU:HD21	2.38	0.47
7:1:355:ASN:HA	7:1:358:ASP:CG	2.39	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
1:I:193:GLN:HE21	1:I:193:GLN:H	1.63	0.47
1:I:287:ILE:CD1	1:I:288:ASP:N	2.78	0.47
1:I:354:PRO:O	1:I:354:PRO:HD2	2.14	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
3:L:40:TYR:O	3:L:44:GLU:CB	2.61	0.47
3:L:210:GLU:O	3:L:210:GLU:HG3	2.13	0.47
3:L:327:ASP:OD1	3:L:330:ALA:CA	2.62	0.47
4:M:264:GLY:HA3	4:M:309:THR:HG22	1.95	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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:901:GLN:N	7:N:915:LYS:O	2.46	0.47
9:P:344:THR:C	9:P:348:GLU:HB2	2.39	0.47
9:P:421:PRO:CD	9:P:422:ASN:N	2.68	0.47
11:R:286:TRP:CD1	11:R:286:TRP:C	2.92	0.47
14:U:176:LEU:HD23	15:V:217:LEU:HD12	1.96	0.47
18:Z:792:ALA:O	18:Z:795:GLY:N	2.41	0.47
25:X:174:THR:CG2	3:z:372:ARG:HH21	2.26	0.47
20:i:198:PHE:CE2	20:i:206:ASN:HB3	2.46	0.47
21:j:11:ILE:CG1	22:k:7:ILE:HG23	2.44	0.47
29:r:1:MET:CE	29:r:134:TYR:H	2.28	0.47
1:w:144:LEU:HD11	1:w:162:VAL:CA	2.42	0.47
1:w:294:ARG:HE	1:w:294:ARG:HB3	1.62	0.47
5:x:77:VAL:CB	5:x:86:LEU:CD1	2.79	0.47
6:y:188:PHE:HE2	6:y:304:ASN:OD1	1.96	0.47
6:y:200:ARG:HH12	6:y:303:VAL:HB	1.78	0.47
6:y:234:GLU:CA	3:z:216:ARG:HH22	2.26	0.47
6:y:240:LEU:N	6:y:240:LEU:CD2	2.76	0.47
6:y:377:SER:O	6:y:381:GLU:CB	2.62	0.47
3:z:101:ASP:HB3	3:z:105:LEU:N	2.29	0.47
3:z:115:VAL:O	3:z:119:VAL:CG2	2.62	0.47
3:z:163:GLY:C	3:z:164:ILE:HG13	2.39	0.47
3:z:313:LEU:HD23	3:z:332:VAL:HG23	1.95	0.47
4:0:96:LEU:CD1	4:0:145:LEU:HB3	2.42	0.47
4:0:235:LEU:HA	4:0:238:ARG:HB2	1.96	0.47
4:0:391:PHE:O	4:0:392:ASN:C	2.55	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
9:3:448:LYS:CE	14:8:154:THR:HG1	2.23	0.47
10:4:239:TYR:HB2	10:4:247:ALA:CB	2.44	0.47
11:5:286:TRP:HE1	11:5:287:LEU:CD1	2.27	0.47
15:9:85:GLU:OE1	15:9:85:GLU:N	2.33	0.47
16:AA:12:ASN:HA	16:AA:16:MET:CB	2.45	0.47
1:I:115:ILE:C	1:I:116:ILE:HG12	2.38	0.47
3:L:77:PRO:HB2	6:K:106:THR:HG1	1.76	0.47
3:L:115:VAL:O	3:L:119:VAL:CG2	2.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:199:VAL:CG1	4:M:315:ASN:CG	2.88	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
5:J:40:GLN:O	5:J:44:ARG:HG3	2.14	0.47
5:J:149:GLU:O	5:J:150:MET:HB3	2.13	0.47
5:J:355:SER:H	5:J:358:GLU:HB2	1.78	0.47
6:K:61:ILE:HD11	7:N:639:LEU:HD11	1.96	0.47
6:K:238:LYS:HD2	6:K:238:LYS:O	2.14	0.47
6:K:285:VAL:O	6:K:286:GLN:C	2.58	0.47
6:K:391:ARG:HH22	6:K:395:LEU:HD12	1.80	0.47
7:N:423:MET:C	7:N:427:LEU:HG	2.39	0.47
7:N:460:TYR:O	7:N:463:ASN:HB2	2.14	0.47
10:Q:134:VAL:CG2	10:Q:149:LEU:CD2	2.93	0.47
10:Q:400:ALA:HB1	14:U:262:LEU:HD11	1.95	0.47
12:S:270:LEU:HA	12:S:273:LYS:HE3	1.96	0.47
30:e:160:ILE:O	30:e:164:THR:HG23	2.14	0.47
31:f:35:ILE:HD11	27:p:167:LEU:HD21	1.96	0.47
2:v:125:LEU:HD12	2:v:126:SER:N	2.29	0.47
2:v:146:LYS:HB3	2:v:148:GLN:CG	2.44	0.47
2:v:166:VAL:O	2:v:166:VAL:CG2	2.62	0.47
2:v:169:LYS:HB2	2:v:169:LYS:HE3	1.71	0.47
2:v:207:GLU:HB3	2:v:210:LYS:HE3	1.97	0.47
2:v:351:ARG:O	2:v:352:THR:C	2.56	0.47
6:y:53:PHE:C	6:y:57:GLN:OE1	2.58	0.47
6:y:181:VAL:O	6:y:185:LEU:CB	2.54	0.47
6:y:322:LEU:HD13	6:y:330:LYS:CE	2.42	0.47
3:z:119:VAL:HG11	3:z:221:TYR:CD2	2.49	0.47
3:z:313:LEU:CD2	3:z:332:VAL:CG2	2.91	0.47
7:1:10:SER:CB	13:7:170:GLN:CD	2.87	0.47
7:1:26:LYS:O	7:1:30:VAL:HG22	2.14	0.47
7:1:235:LYS:O	7:1:239:GLU:N	2.41	0.47
10:4:66:LEU:HA	10:4:109:LEU:HD13	1.95	0.47
10:4:137:TYR:CZ	10:4:145:GLU:OE1	2.67	0.47
11:5:53:TYR:O	11:5:54:TYR:C	2.57	0.47
11:5:55:GLU:HA	11:5:58:CYS:SG	2.55	0.47
11:5:257:ARG:CG	11:5:258:GLN:N	2.77	0.47
11:5:320:ALA:HB1	11:5:325:VAL:O	2.14	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
15:9:248:MET:CE	15:9:288:VAL:HG23	2.40	0.47
16:AA:97:LEU:HD11	16:AA:109:ILE:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:L:152:PRO:HA	3:L:159:PHE:CE2	2.49	0.47
3:L:163:GLY:C	3:L:164:ILE:HG13	2.39	0.47
4:M:97:LEU:O	4:M:121:CYS:O	2.32	0.47
6:K:98:GLN:C	6:K:99:ASN:ND2	2.73	0.47
6:K:212:LYS:CA	6:K:333:PHE:CE2	2.97	0.47
6:K:216:ALA:HB2	6:K:263:PHE:HE2	1.74	0.47
6:K:378:ILE:CG1	6:K:406:VAL:CG2	2.86	0.47
9:P:51:GLU:OE2	9:P:66:ILE:CB	2.62	0.47
9:P:438:LEU:O	9:P:442:THR:CB	2.62	0.47
10:Q:202:CYS:O	10:Q:206:LEU:CD2	2.61	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
14:U:69:PHE:CD1	16:W:60:VAL:HG21	2.50	0.47
14:U:277:ASN:O	14:U:280:ILE:HB	2.14	0.47
16:W:12:ASN:HA	16:W:16:MET:CB	2.45	0.47
18:Z:201:GLU:O	18:Z:202:HIS:CB	2.62	0.47
20:C:73:LEU:HD21	20:C:135:ILE:HG12	1.96	0.47
24:G:40:SER:OG	24:G:41:LYS:N	2.46	0.47
25:X:49:VAL:HB	25:X:212:GLU:HB2	1.96	0.47
19:h:50:ILE:HG12	19:h:141:ILE:HD13	1.97	0.47
19:h:159:TYR:CD1	19:h:159:TYR:C	2.93	0.47
21:j:163:CYS:SG	21:j:164:ILE:N	2.88	0.47
23:l:168:ARG:HG3	23:l:169:ALA:N	2.29	0.47
2:v:146:LYS:HB3	2:v:148:GLN:HG2	1.96	0.47
1:w:140:ASP:OD2	1:w:142:ASP:HB2	2.13	0.47
1:w:164:MET:CE	5:x:78:ARG:HH12	2.22	0.47
1:w:236:ALA:HB2	1:w:283:PHE:CE1	2.49	0.47
1:w:398:ILE:C	1:w:419:PHE:CE1	2.92	0.47
5:x:80:MET:SD	5:x:86:LEU:HB2	2.54	0.47
5:x:158:ILE:HG22	5:x:162:LYS:HD2	1.96	0.47
5:x:167:LEU:N	5:x:168:PRO:CD	2.76	0.47
6:y:61:ILE:HD11	7:1:639:LEU:HD11	1.96	0.47
6:y:103:VAL:HG11	6:y:139:LEU:CD2	2.33	0.47
6:y:313:ARG:O	6:y:315:ASP:N	2.47	0.47
4:0:304:ARG:CG	4:0:308: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:336:ILE:C	10:4:340:GLU:HG3	2.33	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
18:AC:200:ALA:CA	18:AC:201:GLU:CB	2.91	0.47
1:I:107:MET:HE1	1:I:160:ILE:HB	1.94	0.47
1:I:114:GLU:C	1:I:115:ILE:CG1	2.88	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:398:ILE:C	1:I:419:PHE:CE1	2.92	0.47
1:I:408:ARG:C	1:I:410:ARG:H	2.22	0.47
1:I:414:VAL:HG13	1:I:418:ASP:CB	2.45	0.47
1:I:417:GLU:O	1:I:421:LYS:N	2.41	0.47
2:H:129:VAL:HG23	2:H:129:VAL:O	2.13	0.47
3:L:152:PRO:O	3:L:156:PRO:HB3	2.15	0.47
4:M:90:VAL:CG1	4:M:164:LEU:HD11	2.44	0.47
4:M:235:LEU:HA	4:M:238:ARG:HB2	1.96	0.47
4:M:358:ASN:ND2	25:n:205:LYS:O	2.47	0.47
5:J:175:PHE:HB3	5:J:180:ILE:HD11	1.97	0.47
5:J:303:SER:C	5:J:305:LEU:N	2.72	0.47
6:K:270:ILE:HG23	6:K:288:ILE:HG22	1.97	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:212:MET:HE1	10:Q:249:THR:CG2	2.43	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
13:T:269:ASP:OD1	13:T:269:ASP:N	2.47	0.47
15:V:226:MET:SD	15:V:230:THR:HG21	2.54	0.47
15:V:255:TYR:CA	15:V:280:PRO:CG	2.87	0.47
18:Z:664:GLU:C	18:Z:666:ILE:N	2.73	0.47
32:g:185:ASN:OD1	32:g:205:THR:OG1	2.18	0.47
20:i:198:PHE:CE2	20:i:202:MET:CA	2.89	0.47
23:l:121:LEU:HD12	24:m:77:LEU:CD2	2.45	0.47
27:p:219:LEU:HG	28:q:194:LYS:HA	1.97	0.47
2:v:123:VAL:HB	2:v:147:TYR:O	2.13	0.47
1:w:108:SER:N	1:w:152:LEU:O	2.47	0.47
1:w:183:THR:HA	1:w:241:ASN:ND2	2.17	0.47
5:x:40:GLN:O	5:x:44:ARG:HG3	2.14	0.47
5:x:210:THR:O	5:x:244:SER:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:339:THR:HG22	5:x:340:ARG:N	2.27	0.47
6:y:98:GLN:C	6:y:99:ASN:ND2	2.73	0.47
6:y:238:LYS:O	6:y:238:LYS:HD2	2.14	0.47
6:y:270:ILE:HG23	6:y:288:ILE:HG22	1.97	0.47
6:y:285:VAL:O	6:y:286:GLN:C	2.58	0.47
3:z:97:ARG:NH1	4:0:95:GLU:OE1	2.36	0.47
3:z:99:ALA:HB3	3:z:109:ARG:O	2.15	0.47
4:0:169:ASP:O	4:0:170:SER:C	2.58	0.47
7:1:18:GLN:O	7:1:21:GLU:HB3	2.15	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
14:8:38:VAL:HA	14:8:94:TRP:HA	1.97	0.47
14:8:178:ASP:C	14:8:179:ILE:HG13	2.39	0.47
15:9:38:LEU:O	15:9:41:MET:HB3	2.13	0.47
15:9:71:ASP:OD2	15:9:104:ARG:HD2	2.13	0.47
16:AA:21:PHE:CZ	16:AA:179:LEU:HB2	2.50	0.47
16:AA:64:LEU:CG	16:AA:101:GLN:HG3	2.44	0.47
1:I:170:LEU:CD1	1:I:269:GLU:CG	2.92	0.47
1:I:267:VAL:O	1:I:271:PHE:HB2	2.15	0.47
1:I:272:ARG:O	1:I:276:GLU:HG3	2.14	0.47
1:I:379:THR:O	1:I:380:LEU:C	2.58	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
2:H:333:ARG:CD	2:H:334:PRO:O	2.63	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
4:M:416:THR:O	4:M:420:TYR:CD2	2.67	0.47
5:J:76:VAL:HA	5:J:87:VAL:HG22	1.96	0.47
5:J:210:THR:O	5:J:244:SER:HA	2.14	0.47
5:J:225:GLY:C	5:J:227:GLY:H	2.23	0.47
5:J:346:LYS:CE	5:J:380:GLN:HE22	2.27	0.47
5:J:363:CYS:HA	5:J:383:PHE:CE1	2.49	0.47
6:K:85:ILE:H	6:K:86:PRO:CD	2.28	0.47
6:K:120:ASP:OD1	15:V:282:ARG:NH1	2.47	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:164:GLU:HG3	7:N:165:LYS:HD3	1.96	0.47
7:N:337:LEU:HA	7:N:340:GLN:HB3	1.95	0.47
7:N:475:HIS:O	7:N:479:LEU:HG	2.15	0.47
7:N:610:VAL:CG1	14:U:178:ASP:CG	2.86	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
8:O:364:GLU:OE1	8:O:365:MET:SD	2.73	0.47
10:Q:57:LEU:C	10:Q:59:LYS:N	2.64	0.47
10:Q:114:ILE:HG13	10:Q:129:LEU:HD22	1.93	0.47
10:Q:233:TYR:C	10:Q:233:TYR:HD1	2.23	0.47
10:Q:234:GLU:HA	10:Q:237:GLU:OE2	2.15	0.47
10:Q:295:LYS:C	10:Q:297:ARG:H	2.23	0.47
11:R:33:GLY:N	11:R:34:ASP:CB	2.76	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
13:T:96:GLU:O	13:T:99:LYS:HB3	2.15	0.47
15:V:49:VAL:HA	15:V:50:PRO:HA	1.60	0.47
15:V:122:LEU:HG	15:V:160:PHE:CE2	2.50	0.47
15:V:214:GLN:CG	15:V:215:LYS:N	2.77	0.47
15:V:224:SER:OG	15:V:225:TRP:N	2.44	0.47
15:V:290:VAL:O	15:V:294:SER:HB3	2.14	0.47
16:W:2:VAL:O	16:W:44:ASN:ND2	2.35	0.47
16:W:64:LEU:CG	16:W:101:GLN:HG3	2.44	0.47
17:Y:48:VAL:O	17:Y:49:GLU:C	2.58	0.47
19:B:182:LYS:HD3	19:B:197:THR:HG23	1.97	0.47
20:C:185:ASP:O	20:C:189:THR:HG22	2.15	0.47
23:F:36:THR:HA	23:F:171:GLY:HA3	1.95	0.47
24:G:41:LYS:HG3	24:G:42:THR:HG23	1.95	0.47
25:X:205:LYS:O	4:0:358:ASN:ND2	2.47	0.47
28:q:158:MET:HE1	28:q:166:THR:OG1	2.15	0.47
29:r:1:MET:HE2	29:r:134:TYR:CD2	2.50	0.47
2:v:153:LEU:CD2	1:w:132:TYR:CE2	2.90	0.47
2:v:208:PRO:HG2	2:v:316:LYS:HZ3	1.79	0.47
2:v:213:LEU:CD2	2:v:214:LEU:N	2.78	0.47
2:v:237:PHE:HD1	2:v:271:LEU:HD12	1.80	0.47
2:v:362:MET:HG3	2:v:364:VAL:HG13	1.96	0.47
1:w:107:MET:CE	1:w:151:LEU:HD22	2.45	0.47
1:w:112:LEU:C	1:w:147:GLY:H	2.23	0.47
1:w:118:ASP:CB	1:w:120:HIS:NE2	2.77	0.47
1:w:120:HIS:CB	1:w:133:VAL:O	2.62	0.47
1:w:175:LYS:HD3	1:w:177:GLU:OE2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:204:PRO:CG	1:w:211:TYR:CE2	2.92	0.47
1:w:401:GLU:CB	1:w:422:SER:OG	2.62	0.47
6:y:90:GLY:O	6:y:130:VAL:CA	2.63	0.47
6:y:93:LEU:HD22	6:y:110:ASN:HD21	1.80	0.47
6:y:120:ASP:OD1	15:9:282:ARG:NH1	2.47	0.47
6:y:146:GLU:HG3	6:y:147:ALA:N	2.29	0.47
6:y:166:ASP:O	33:y:501:ADP:C2	2.67	0.47
6:y:173:GLN:O	6:y:176:GLU:HB3	2.14	0.47
6:y:354:LEU:HD21	6:y:399:PHE:CE2	2.49	0.47
6:y:363:TYR:HB3	6:y:403:TYR:CE1	2.48	0.47
3:z:71:VAL:O	3:z:71:VAL:HG22	2.14	0.47
3:z:96:THR:HG22	3:z:96:THR:O	2.14	0.47
3:z:135:ILE:HG21	3:z:182:LEU:CD2	2.44	0.47
3:z:172:LEU:CD1	3:z:180:LYS:CA	2.92	0.47
3:z:255:ARG:HG2	3:z:255:ARG:H	1.52	0.47
3:z:320:ILE:O	3:z:322:LYS:HD2	2.14	0.47
3:z:356:ARG:HG3	3:z:356:ARG:HH11	1.79	0.47
3:z:356:ARG:NH1	4:0:200:GLU:OE1	2.48	0.47
4:0:97:LEU:O	4:0:121:CYS:O	2.32	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
4:0:359: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
7:1:460:TYR:O	7:1:463:ASN:HB2	2.14	0.47
7:1:534:GLY:O	7:1:538:GLU:N	2.29	0.47
7:1:577:ILE:O	7:1:580:ARG:HB3	2.15	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
10:4:190: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
11:5:21:GLN:HB2	11:5:286:TRP:HZ3	1.76	0.47
11:5:191:ILE:HG22	11:5:192:ARG:H	1.77	0.47
11:5:300:ARG:HH21	11:5:337:PHE:HZ	1.56	0.47
14:8:69:PHE:CD1	16:AA:60:VAL:HG21	2.50	0.47
14:8:275:LEU:HD11	14:8:279:LYS:HD3	1.97	0.47
15:9:42:LEU:HD11	15:9:155:VAL:HG21	1.96	0.47
15:9:255:TYR:CA	15:9:280:PRO:CG	2.87	0.47
16:AA:54:LEU:CA	16:AA:58:CYS:HA	2.42	0.47
18:AC:216:MET:O	18:AC:220:ASP:N	2.47	0.47
1:I:232:LYS:N	1:I:353:PHE:CD2	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:256:ILE:HD11	1:I:290:ILE:HA	1.96	0.47
1:I:317:ASP:CG	1:I:318:GLY:N	2.72	0.47
2:H:213:LEU:CD2	2:H:214:LEU:N	2.78	0.47
3:L:196:LEU:HD12	3:L:230:ILE:HD11	1.94	0.47
4:M:153:VAL:HG13	4:M:158:TYR:C	2.39	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
6:K:173:GLN:O	6:K:176:GLU:HB3	2.14	0.47
7:N:360:VAL:CG2	7:N:361:ARG:N	2.77	0.47
7:N:792:ASN:CG	7:N:916:ASP:HB2	2.39	0.47
9:P:285:ASP:OD1	9:P:285:ASP:N	2.47	0.47
9:P:382:LEU:O	9:P:384:LEU:N	2.41	0.47
10:Q:48:GLN:O	10:Q:49:SER:C	2.57	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
21:D:66:TYR:CG	21:D:87:THR:HG21	2.50	0.47
21:D:171:ALA:HB2	21:D:200:THR:HG21	1.96	0.47
23:F:104:ASN:OD1	30:e:57:ARG:NH2	2.48	0.47
29:d:172:ILE:HG12	29:r:25:ILE:O	2.15	0.47
22:k:96:LEU:HG	29:r:62:LYS:CG	2.42	0.47
24:m:40:SER:OG	24:m:41:LYS:N	2.45	0.47
2:v:157:ILE:HG22	2:v:263:MET:SD	2.49	0.47
2:v:333:ARG:CD	2:v:334:PRO:O	2.63	0.47
1:w:232:LYS:N	1:w:353:PHE:CD2	2.83	0.47
1:w:267:VAL:O	1:w:271:PHE:HB2	2.15	0.47
1:w:278:ALA:HB1	1:w:279:PRO:HD2	1.93	0.47
1:w:379:THR:O	1:w:380:LEU:C	2.58	0.47
1:w:404:LEU:O	1:w:408:ARG:N	2.45	0.47
5:x:161:ILE:CG2	5:x:203:VAL:HG21	2.38	0.47
3:z:87:LEU:CD2	3:z:110:TYR:HD2	2.28	0.47
3:z:257:LEU:C	3:z:261:LEU:CD1	2.87	0.47
7:1:63:VAL:O	7:1:67:VAL:HG23	2.15	0.47
7:1:544:ILE:O	7:1:548:LEU:HG	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
11:5:53:TYR:O	11:5:55:GLU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:192:ARG:HH12	11:5:294:TYR:HB2	1.79	0.47
11:5:286:TRP:NE1	11:5:287:LEU:CD1	2.78	0.47
11:5:286:TRP:NE1	11:5:287:LEU:HD22	2.29	0.47
12:6:431:PRO:O	12:6:434:ALA:N	2.48	0.47
14:8:43:TRP:CB	14:8:48:LEU:HD21	2.45	0.47
1:I:259:TYR:OH	6:K:276:ASP:CG	2.58	0.47
1:I:402:ALA:O	1:I:406:ALA:N	2.28	0.47
2:H:201:PHE:CD1	2:H:201:PHE:N	2.82	0.47
2:H:348:LEU:HG	23:l:175:GLU:OE2	2.15	0.47
3:L:18:GLU:O	3:L:22:ILE:N	2.39	0.47
3:L:258:MET:HE1	6:K:268:ASP:OD2	2.15	0.47
3:L:313:LEU:HD23	3:L:332:VAL:HG23	1.95	0.47
4:M:94:ILE:O	4:M:147:PRO:HG3	2.14	0.47
4:M:96:LEU:CD1	4:M:145:LEU:HB3	2.42	0.47
5:J:138:MET:CE	5:J:143:VAL:CG2	2.81	0.47
5:J:154:LEU:HD21	5:J:317:PHE:HD2	1.77	0.47
6:K:119:ILE:CD1	6:K:119:ILE:N	2.78	0.47
6:K:149:SER:N	6:K:150:SER:CA	2.31	0.47
6:K:258:ALA:CB	6:K:259:PRO:CD	2.88	0.47
7:N:68:PHE:HA	7:N:71:LEU:HB2	1.97	0.47
10:Q:125:LEU:HD13	10:Q:125:LEU:O	2.15	0.47
11:R:108:ALA:HB2	11:R:123:ALA:HB1	1.93	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:54:MET:SD	15:V:82:VAL:HG23	2.55	0.47
31:f:145:LEU:HD22	31:f:178:VAL:HB	1.96	0.47
24:m:71:GLY:HA3	24:m:221:PHE:CZ	2.49	0.47
2:v:103:ASN:HB3	2:v:136:GLU:CD	2.38	0.47
2:v:111:TYR:OH	2:v:125:LEU:CD2	2.60	0.47
2:v:143:ASP:OD2	2:v:146:LYS:CG	2.63	0.47
2:v:309:PHE:CZ	4:0:248:PHE:CE2	3.03	0.47
1:w:287:ILE:CD1	1:w:288:ASP:N	2.78	0.47
1:w:399:CYS:HA	1:w:419:PHE:HE1	1.79	0.47
5:x:67:GLN:CG	6:y:136:SER:OG	2.63	0.47
5:x:175:PHE:HB3	5:x:180:ILE:HD11	1.97	0.47
6:y:119:ILE:CD1	6:y:119:ILE:N	2.78	0.47
3:z:148:VAL:HA	3:z:167:PRO:CG	2.38	0.47
3:z:152:PRO:O	3:z:156:PRO:HB3	2.15	0.47
3:z:194:ASN:OD1	3:z:196:LEU:HD21	2.15	0.47
3:z:253:ILE:O	3:z:256:THR:HB	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:91:SER:O	4:0:151:VAL:CG2	2.58	0.47
4:0:96:LEU:CD1	4:0:145:LEU:CB	2.82	0.47
4:0:169:ASP:OD2	4:0:267:LEU:HD12	2.15	0.47
4:0:299:GLU:O	4:0:300:LYS:HG3	2.15	0.47
7:1:494:TYR:HE1	7:1:532:MET:HE3	1.80	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
8:2:374:ILE:CD1	13:7:347:GLU:CD	2.88	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
13:7:89:GLN:HB3	13:7:115:GLU:OE1	2.14	0.47
13:7:346:LEU:HA	13:7:349:ILE:CD1	2.44	0.47
14:8:7:GLN:O	14:8:158:VAL:HG13	2.15	0.47
15:9:57:MET:HE1	15:9:143:VAL:HG21	1.97	0.47
1:I:373:THR:CG2	1:I:413: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
2:H:102:ILE:CD1	2:H:120:LYS:HG2	2.45	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
5:J:125:LYS:CG	5:J:126:ILE:N	2.78	0.47
6:K:66:LYS:HE2	6:K:70:LYS:HE3	1.97	0.47
6:K:162:VAL:HG11	6:K:214:MET:HE2	1.93	0.47
7:N:26:LYS:O	7:N:30:VAL:HG22	2.14	0.47
7:N:119:PRO:CG	7:N:120:GLU:N	2.76	0.47
7:N:355:ASN:HA	7:N:358:ASP:CG	2.39	0.47
7:N:545:LEU:HA	7:N:548:LEU:HD12	1.97	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
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
18:Z:662:MET:C	18:Z:664:GLU:N	2.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:C:225:VAL:HG12	20:C:229:LEU:CD1	2.45	0.47
28:c:158:MET:HE1	28:c:166:THR:OG1	2.15	0.47
30:s:160:ILE:O	30:s:164:THR:HG23	2.15	0.47
1:w:193:GLN:HG3	1:w:351:ILE:HG23	1.95	0.47
1:w:193:GLN:HE21	1:w:193:GLN:H	1.63	0.47
1:w:388:ASP:OD1	1:w:389:ASP:N	2.47	0.47
5:x:175:PHE:HB3	5:x:180:ILE:CD1	2.45	0.47
6:y:212:LYS:CA	6:y:333:PHE:CE2	2.97	0.47
6:y:322:LEU:HB3	6:y:330:LYS:HE3	1.97	0.47
3:z:253:ILE:CG1	4:0:308:ARG:HH22	2.14	0.47
3:z:331:ILE:CD1	3:z:367:PHE:CE1	2.95	0.47
3:z:355:ILE:HG23	4:0:211:LYS:HD3	1.97	0.47
4:0:91:SER:OG	4:0:151:VAL:HG23	2.14	0.47
4:0:183:GLU:O	4:0:187:ASP:HB2	2.14	0.47
4:0:348:LEU:HD12	4:0:348:LEU:N	2.30	0.47
4:0:436:GLN:HG2	4:0:436:GLN:O	2.15	0.47
7:1:162:VAL:C	7:1:164:GLU:N	2.73	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
9:3:343:SER:C	9:3:348:GLU:HB2	2.39	0.47
14:8:106:ILE:HG12	14:8:155:PHE:CE1	2.50	0.47
14:8:142:GLU:HA	14:8:153:LYS:H	1.79	0.47
1:I:214:MET:HE2	2:H:397:ILE:CG1	2.45	0.46
2:H:95:VAL:CG1	2:H:96:ALA:H	2.19	0.46
2:H:236:CYS:O	2:H:271:LEU:N	2.44	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
5:J:69:GLN:HA	5:J:69:GLN:HE21	1.79	0.46
6:K:41:TYR:CD1	7:N:183:LEU:CD2	2.98	0.46
6:K:99:ASN:O	6:K:100:THR:OG1	2.24	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:32:LYS:CB	10:Q:33:ARG:HA	2.45	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
12:S:324:PHE:HB2	17:Y:11:GLY:HA2	1.97	0.46
14:U:54:PHE:CD2	14:U:82:PHE:CE2	3.04	0.46
14:U:101:LEU:O	14:U:102:HIS:CE1	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
18:Z:412:ALA:CA	18:Z:447:ALA:HB2	2.32	0.46
20:C:58:GLU:CD	20:C:58:GLU:H	2.23	0.46
26:a:84:LYS:HG3	26:a:120:MET:HB2	1.97	0.46
27:b:167:LEU:HD21	31:t:35:ILE:HD11	1.98	0.46
27:b:187:ARG:HA	27:b:188:PRO:HA	1.69	0.46
27:b:198:ARG:HH21	28:c:152:SER:C	2.23	0.46
2:v:415:LYS:O	2:v:419:SER:HB2	2.15	0.46
1:w:259:TYR:OH	6:y:276:ASP:CG	2.58	0.46
5:x:373:GLU:CG	5:x:375:ARG:HD3	2.43	0.46
6:y:385:LEU:HD23	6:y:398:ASP:HA	1.98	0.46
3:z:199:VAL:CG1	4:0:315:ASN:CG	2.88	0.46
7:1:32:ASN:O	7:1:35:TRP:CD1	2.68	0.46
7:1:128:GLN:HA	7:1:131:GLU:HB3	1.98	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
12:6:324:PHE:HB2	17:AB:11:GLY:HA2	1.97	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
1:I:112:LEU:C	1:I:147:GLY:H	2.23	0.46
1:I:394:ASP:OD1	5:J:308:PRO:HG2	2.15	0.46
3:L:71:VAL:O	3:L:71:VAL:HG22	2.14	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:356:ARG:NH1	4:M:200:GLU:OE1	2.48	0.46
4:M:137:ILE:CD1	4:M:145:LEU:CD1	2.83	0.46
4:M:169:ASP:O	4:M:170:SER:C	2.58	0.46
4:M:299:GLU:O	4:M:300:LYS:HG3	2.15	0.46
5:J:77:VAL:CB	5:J:86:LEU:CD1	2.79	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
7:N:119:PRO:C	7:N:120:GLU:CG	2.88	0.46
7:N:406:ALA:C	7:N:408:LEU:H	2.23	0.46
7:N:494:TYR:HE1	7:N:532:MET:HE3	1.80	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:HD2	9:P:408:ARG:HA	1.71	0.46
11:R:268:TYR:CD2	11:R:323:PHE:HE1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
29:r:168:GLN:NE2	29:r:175:LEU:O	2.39	0.46
2:v:393:GLY:HA3	1:w:216:ILE:HD13	1.97	0.46
1:w:170:LEU:HD23	1:w:170:LEU:HA	1.79	0.46
1:w:231:GLY:C	1:w:353:PHE:CD2	2.93	0.46
1:w:271:PHE:CB	1:w:315:GLN:OE1	2.64	0.46
1:w:272:ARG:O	1:w:276:GLU:HG3	2.14	0.46
1:w:399:CYS:HA	1:w:419:PHE:CZ	2.50	0.46
5:x:86:LEU:CD1	5:x:86:LEU:C	2.87	0.46
6:y:60:TYR:CE1	7:1:607:VAL:HG22	2.50	0.46
6:y:85:ILE:H	6:y:86:PRO:CD	2.28	0.46
6:y:202:VAL:N	6:y:307:VAL:O	2.39	0.46
6:y:345:PHE:CE2	6:y:360:LEU:CD2	2.83	0.46
3:z:322:LYS:NZ	3:z:328:TYR:HH	2.02	0.46
4:0:153:VAL:HG13	4:0:158:TYR:C	2.39	0.46
4:0:212:PHE:O	4:0:217:ILE:HG12	2.15	0.46
7:1:528:ALA:O	7:1:532:MET:N	2.31	0.46
10:4:42:ALA:O	10:4:46:LYS:N	2.34	0.46
10:4:233:TYR:C	10:4:233:TYR:HD1	2.23	0.46
10:4:295:LYS:C	10:4:297:ARG:H	2.23	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
13:7:96:GLU:O	13:7:99:LYS:HB3	2.15	0.46
13:7:128:PHE:C	13:7:129:LEU:CG	2.88	0.46
13:7:269:ASP:OD1	13:7:270:GLU:N	2.44	0.46
15:9:54:MET:SD	15:9:82:VAL:HG23	2.55	0.46
15:9:105:PRO:O	15:9:106:GLU:HG3	2.15	0.46
1:I:173:VAL:HG13	5:J:232:ARG:HB3	1.98	0.46
1:I:231:GLY:C	1:I:353:PHE:CD2	2.93	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:307:ASP:CB	2:H:336:ARG:HG3	2.46	0.46
2:H:309:PHE:HD1	2:H:310:ASP:N	2.13	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
4:M:378:ASP:C	4:M:379:VAL:HG23	2.40	0.46
5:J:85:VAL:HG21	5:J:123:LEU:CD1	2.45	0.46
6:K:299:PHE:CD1	6:K:303:VAL:HG21	2.50	0.46
7:N:10:SER:CB	13:T:170:GLN:CG	2.93	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:270:THR:C	7:N:272:GLY:N	2.73	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
9:P:428:TRP:CH2	15:V:305:ASP:HB2	2.50	0.46
11:R:33:GLY:N	11:R:34:ASP:HB3	2.26	0.46
11:R:217:LYS:O	11:R:221:THR:HG23	2.16	0.46
14:U:141:VAL:HG12	14:U:142:GLU:N	2.31	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
15:V:309:PHE:C	15:V:310:LYS:HG2	2.41	0.46
22:E:31:THR:OG1	22:E:163:ARG:O	2.29	0.46
27:b:219:LEU:HG	28:c:194:LYS:HA	1.97	0.46
28:c:73:LEU:HD23	28:c:73:LEU:HA	1.81	0.46
30:e:8:PHE:N	30:e:8:PHE:CD1	2.83	0.46
20:i:185:ASP:O	20:i:189:THR:HG22	2.16	0.46
21:j:66:TYR:CG	21:j:87:THR:HG21	2.51	0.46
24:m:159:MET:HE3	24:m:169:ARG:NE	2.30	0.46
27:p:59:ILE:HG13	27:p:83:LEU:CD2	2.44	0.46
28:q:34:MET:HE3	28:q:37:THR:HG23	1.97	0.46
2:v:307:ASP:CB	2:v:336:ARG:HG3	2.46	0.46
1:w:252:GLY:CA	1:w:255:LEU:HB2	2.45	0.46
1:w:317:ASP:CG	1:w:318:GLY:N	2.72	0.46
1:w:402:ALA:O	1:w:406:ALA:N	2.28	0.46
5:x:189:TYR:CB	5:x:298:ILE:HG13	2.44	0.46
5:x:368:MET:HE3	6:y:329:ARG:NH2	2.31	0.46
6:y:312:ASN:ND2	6:y:312:ASN:N	2.64	0.46
3:z:56:ILE:HB	3:z:100:LEU:HB2	1.97	0.46
3:z:221:TYR:CD1	3:z:221:TYR:C	2.93	0.46
4:0:80:ILE:HG21	4:0:84:LYS:HE3	1.89	0.46
4:0:432:LYS:O	4:0:433:ALA:HB2	2.14	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
14:8:22:HIS:HE2	14:8:35:VAL:CG1	2.19	0.46
1:I:112:LEU:H	1:I:148:CYS:C	2.19	0.46
1:I:132:TYR:C	1:I:133:VAL:HG13	2.40	0.46
1:I:228:PRO:O	5:J:307:ARG:HD3	2.15	0.46
1:I:303:ARG:O	1:I:307:ARG:CD	2.64	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:96:THR:HG22	3:L:96:THR:O	2.14	0.46
3:L:194:ASN:OD1	3:L:196:LEU:HD21	2.15	0.46
3:L:253:ILE:O	3:L:256:THR:HB	2.15	0.46
4:M:359:GLU:O	4:M:362:ARG:CA	2.63	0.46
5:J:90:HIS:CB	5:J:91:PRO:CD	2.67	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
6:K:53:PHE:C	6:K:57:GLN:OE1	2.58	0.46
6:K:60:TYR:CE1	7:N:607:VAL:HG22	2.50	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
7:N:793:LYS:C	7:N:795:LEU:N	2.73	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:56:LEU:O	10:Q:60:THR:N	2.37	0.46
10:Q:137:TYR:O	10:Q:142:ARG:O	2.33	0.46
10:Q:411:VAL:HG21	11:R:376:LEU:HD11	1.96	0.46
11:R:362:LYS:HG3	12:S:467:TYR:HE2	1.80	0.46
12:S:398:LEU:O	12:S:401:ASN:N	2.49	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
17:Y:51:ASP:N	17:Y:51:ASP:OD1	2.47	0.46
26:a:175:ARG:NH1	32:u:215:ILE:HD11	2.31	0.46
2:v:99:THR:HG21	2:v:142:VAL:CB	2.37	0.46
2:v:386:ARG:NH2	1:w:345:GLY:HA2	2.31	0.46
1:w:134:SER:O	1:w:159:VAL:HB	2.16	0.46
5:x:225:GLY:C	5:x:227:GLY:H	2.23	0.46
6:y:180:ALA:C	6:y:184:PRO:HG2	2.41	0.46
3:z:282:PRO:CD	3:z:386:TYR:O	2.64	0.46
3:z:304:PRO:HB3	3:z:308:ALA:HB1	1.98	0.46
3:z:350:ALA:O	3:z:354:ALA:N	2.43	0.46
4:0:221:LYS:O	4:0:222: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
10:4:204:PRO:O	10:4:205:LYS:C	2.58	0.46
11:5:237:ARG:HG3	11:5:238:GLU:N	2.31	0.46
12:6:290:TYR:C	12:6:290:TYR:CD1	2.93	0.46
12:6:469:THR:HG22	14:8:250:TYR:CD2	2.48	0.46
14:8:23:PHE:HD2	14:8:126:VAL:HB	1.74	0.46
15:9:101:GLN:HE21	16:AA:101:GLN:NE2	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:192:ASN:O	1:I:196:GLU:HB2	2.15	0.46
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
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
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
5:J:86:LEU:HD22	5:J:96:VAL:HG23	1.82	0.46
5:J:113:ARG:O	5:J:114:VAL:HG13	2.15	0.46
6:K:153:MET:SD	6:K:257:ASN:ND2	2.89	0.46
7:N:63:VAL:O	7:N:67:VAL:HG23	2.15	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
9:P:63:THR:CB	9:P:102:ALA:CB	2.93	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
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
11:R:228:MET:HE2	11:R:271:PHE:CE2	2.48	0.46
12:S:487:HIS:ND1	12:S:487:HIS:C	2.72	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
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
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
23:F:173:ALA:HB2	2:v:375:ARG:HE	1.76	0.46
26:a:149:LYS:NZ	26:a:185:GLU:OE2	2.48	0.46
19:h:143:ILE:HG12	19:h:220:VAL:HG22	1.98	0.46
23:l:24:VAL:O	23:l:28:ILE:HG12	2.14	0.46
2:v:397:ILE:CG1	1:w:214:MET:HE2	2.45	0.46
2:v:424:SER:O	2:v:426:THR:N	2.49	0.46
1:w:249:ARG:HH21	5:x:278:ASN:CB	2.25	0.46
1:w:275:GLU:CB	1:w:322:ARG:NH1	2.75	0.46
1:w:394:ASP:OD1	5:x:308:PRO:HG2	2.15	0.46
5:x:76:VAL:HA	5:x:87:VAL:HG22	1.96	0.46
5:x:328:ILE:HG23	33:x:501:ADP:C2	2.51	0.46
6:y:54:LEU:HG	6:y:55:GLU:N	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:160:PRO:HB3	6:y:217:LYS:HA	1.98	0.46
6:y:411:GLU:CG	6:y:412:GLN:N	2.68	0.46
3:z:64:LEU:N	3:z:68:LYS:O	2.47	0.46
3:z:108:MET:HE2	3:z:108:MET:HA	1.97	0.46
3:z:235:ILE:HD13	3:z:277:MET:SD	2.55	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
8:2:308:GLU:OE2	9:3:377:ARG:NH2	2.48	0.46
9:3:373:ILE:HG13	9:3:374:THR:N	2.30	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
14:8:196:HIS:C	14:8:196:HIS:ND1	2.74	0.46
16:AA:177:PRO:O	16:AA:178:SER:HB2	2.15	0.46
1:I:107:MET:CE	1:I:151:LEU:HD22	2.45	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
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
3:L:99:ALA:HB3	3:L:109:ARG:O	2.15	0.46
3:L:303:LEU:O	3:L:304:PRO:C	2.58	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
6:K:180:ALA:C	6:K:184:PRO:HG2	2.41	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: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: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
15:V:57:MET:HE1	15:V:143:VAL:HG21	1.97	0.46
15:V:162:LEU:HA	15:V:200:TYR:CB	2.45	0.46
24:m:47:VAL:HG12	24:m:195:LEU:HD22	1.98	0.46
30:s:8:PHE:N	30:s:8:PHE:CD1	2.84	0.46
2:v:153:LEU:HB3	2:v:154:PRO:CD	2.44	0.46
2:v:258:ARG:O	2:v:262:GLU:HG2	2.16	0.46
5:x:365:GLU:O	5:x:369:TYR:N	2.31	0.46
6:y:83:GLN:HG2	6:y:140:VAL:HG13	1.96	0.46
6:y:153:MET:SD	6:y:257:ASN:ND2	2.89	0.46
3:z:162:VAL:HG12	3:z:164:ILE:HD12	1.98	0.46
3:z:349:GLU:HB3	3:z:370:ALA:HB1	1.97	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
7:1:406:ALA:C	7:1:408:LEU:H	2.22	0.46
7:1:556:MET:HB2	7:1:585:THR:HG23	1.98	0.46
10:4:48:GLN:C	10:4:52:GLU:CB	2.88	0.46
10:4:277:LEU:C	10:4:279:TYR:N	2.74	0.46
12:6:217:VAL:O	12:6:218:TYR:C	2.58	0.46
14:8:54:PHE:CD2	14:8:82:PHE:CE2	3.04	0.46
1:I:292:THR:O	1:I:292:THR:OG1	2.29	0.46
1:I:387:LYS:HD2	1:I:387:LYS:HA	1.62	0.46
3:L:49:ALA:O	3:L:52:SER:CB	2.62	0.46
3:L:122:MET:HE2	3:L:218:MET:CG	2.37	0.46
3:L:356:ARG:HG3	3:L:356:ARG:HH11	1.79	0.46
4:M:243:GLN:O	4:M:245:LYS:N	2.49	0.46
5:J:205:HIS:C	5:J:207:THR:H	2.24	0.46
6:K:83:GLN:O	6:K:84:SER:OG	2.30	0.46
7:N:64:ALA:O	7:N:68:PHE:N	2.48	0.46
7:N:162:VAL:C	7:N:164:GLU:N	2.73	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
8:O:142:LEU:HD22	8:O:155:PHE:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:Q:204:PRO:O	10:Q:205:LYS:C	2.58	0.46
11:R:259:TYR:CD1	11:R:259:TYR:C	2.88	0.46
11:R:268:TYR:HD2	11:R:323:PHE:CE1	2.34	0.46
12:S:319:HIS:CG	12:S:320:THR:N	2.80	0.46
12:S:389:ASP:OD1	12:S:389:ASP:N	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
25:X:152:ASP:OD1	25:X:154:SER:OG	2.30	0.46
30:s:58:LEU:HD12	30:s:58:LEU:HA	1.85	0.46
2:v:102:ILE:CD1	2:v:120:LYS:HG2	2.45	0.46
2:v:280:ILE:O	2:v:295:VAL:HG13	2.00	0.46
1:w:192:ASN:O	1:w:196:GLU:HB2	2.15	0.46
6:y:148:ASP:O	6:y:249:ASP:HB3	2.16	0.46
33:z:401:ADP:N3	33:z:401:ADP:H2'	2.30	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
7:1:3:THR:N	13:7:127:ASN:CG	2.74	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
9:3:435:LEU:C	9:3:435:LEU:HD23	2.41	0.46
10:4:174:SER:OG	10:4:189:ALA:HB3	2.15	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
11:5:286:TRP:CD1	11:5:286:TRP:C	2.92	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:225:TYR:HA	1:I:232:LYS:HD3	1.97	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:67:GLN:CG	6:K:136:SER:OG	2.63	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
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
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
10:Q:277:LEU:C	10:Q:279:TYR:N	2.74	0.46
13:T:128:PHE:C	13:T:129:LEU:CG	2.88	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
15:V:248:MET:HE3	15:V:284:LEU:CA	2.40	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
32:g:20:VAL:HB	32:g:192:VAL:HG23	1.97	0.46
32:u:110:MET:HE3	32:u:110:MET:HB2	1.84	0.46
2:v:161:VAL:HG21	2:v:259:GLU:CG	2.39	0.46
1:w:114:GLU:C	1:w:115:ILE:CG1	2.88	0.46
1:w:228:PRO:O	5:x:307:ARG:HD3	2.15	0.46
5:x:377:HIS:CD2	11:5:206:SER:CB	2.82	0.46
3:z:172:LEU:CD1	3:z:180:LYS:CB	2.94	0.46
3:z:196:LEU:HD12	3:z:230:ILE:HD11	1.94	0.46
3:z:338:PHE:CZ	3:z:375:ALA:HA	2.45	0.46
4:0:88:TYR:CE1	4:0:161:LEU:HB2	2.51	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
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
7:1:741:GLY:C	7:1:743:ASN:H	2.23	0.46
8:2:268:LEU:O	8:2:272:ILE:HG12	2.16	0.46
10:4:93:LEU:HD12	10:4:129:LEU:CD1	2.46	0.46
10:4:390:GLU:O	10:4:391:PRO:CB	2.64	0.46
11:5:350:VAL:HG23	12:6:416:ARG:O	2.15	0.46
11:5:362:LYS:HG3	12:6:467:TYR:HE2	1.80	0.46
12:6:467:TYR:CZ	14:8:254:ASN:ND2	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:7:326:GLU:CB	14:8:246:VAL:HG21	2.46	0.46
14:8:190:ARG:CB	15:9:297:VAL:HG11	2.46	0.46
15:9:149:GLN:O	15:9:150:SER:C	2.59	0.46
16:AA:24:THR:O	16:AA:28:ALA:N	2.29	0.46
1:I:144:LEU:HD11	1:I:162:VAL:CA	2.42	0.46
1:I:219:PRO:O	1:I:220:LYS:C	2.59	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
2:H:224:LEU:HA	2:H:227:ARG:HD3	1.97	0.46
3:L:108:MET:HE2	3:L:108:MET:HA	1.97	0.46
3:L:109:ARG:CB	3:L:109:ARG:NH1	2.79	0.46
3:L:221:TYR:C	3:L:221:TYR:CD1	2.93	0.46
3:L:235:ILE:C	3:L:237:ALA:N	2.73	0.46
4:M:173:LYS:C	4:M:175:MET:H	2.24	0.46
5:J:33:LEU:HD21	6:K:47:LEU:HB3	1.98	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
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:2:ALA:CB	10:Q:34:ASP:CB	2.94	0.46
10:Q:218:HIS:HB3	10:Q:228:ALA:HB2	1.98	0.46
11:R:53:TYR:O	11:R:55:GLU:N	2.48	0.46
11:R:229:ILE:HD11	11:R:295:TYR:CE1	2.37	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: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
14:U:106:ILE:CG1	14:U:155:PHE:CZ	2.99	0.46
16:W:142:ASN:HD21	16:W:148:VAL:N	2.14	0.46
19:B:207:SER:O	19:B:208:ILE:CD1	2.53	0.46
24:G:6:TYR:OH	25:X:8:ASP:OD2	2.25	0.46
27:b:59:ILE:HG13	27:b:83:LEU:CD2	2.45	0.46
27:b:64:GLU:O	27:b:68:LEU:HB2	2.16	0.46
19:h:182:LYS:HD3	19:h:197:THR:HG23	1.98	0.46
20:i:189:THR:O	20:i:193:THR:HG22	2.15	0.46
23:l:36:THR:HG22	23:l:51:GLU:OE1	2.16	0.46
27:p:174:ASP:OD1	27:p:187:ARG:O	2.34	0.46
27:p:187:ARG:HA	27:p:187:ARG:HD2	1.63	0.46
28:q:138:VAL:HB	28:q:146:MET:HE3	1.98	0.46
2:v:87:LEU:CD1	1:w:102:LEU:HD13	2.11	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:224:LEU:HD23	2:v:227:ARG:NH1	2.21	0.46
1:w:197:ILE:CG2	1:w:198:LYS:N	2.77	0.46
1:w:303:ARG:O	1:w:307:ARG:CD	2.64	0.46
5:x:303:SER:C	5:x:305:LEU:N	2.72	0.46
5:x:373:GLU:HB3	5:x:375:ARG:CG	2.46	0.46
6:y:85:ILE:CG2	6:y:86:PRO:HD3	2.45	0.46
6:y:146:GLU:CG	6:y:147:ALA:N	2.79	0.46
3:z:198:VAL:HG12	3:z:200:SER:H	1.81	0.46
3:z:345:ASN:O	3:z:349:GLU:N	2.33	0.46
3:z:354:ALA:HB2	3:z:362:VAL:HG22	1.98	0.46
4:0:86:LEU:HD23	4:0:86:LEU:HA	1.66	0.46
4:0:185:TYR:HE2	4:0:243:GLN:HG2	1.81	0.46
4:0:237:ALA:HB1	4:0:284:PHE:HD2	1.75	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
9:3:63:THR:CB	9:3:102:ALA:CB	2.93	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
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
15:9:309:PHE:C	15:9:310:LYS:HG2	2.41	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
1:I:271:PHE:CB	1:I:315:GLN:OE1	2.64	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:313:GLY:C	2:H:315:ILE:CD1	2.89	0.46
2:H:424:SER:O	2:H:426:THR:N	2.49	0.46
4:M:88:TYR:CE1	4:M:161:LEU:HB2	2.51	0.46
5:J:66:LEU:O	6:K:136:SER:HB3	2.16	0.46
5:J:326:LEU:HD11	5:J:345:ARG:HG3	1.98	0.46
6:K:95:ALA:CB	6:K:101:ALA:HB2	2.46	0.46
6:K:118:THR:O	6:K:119:ILE:C	2.59	0.46
6:K:251:PHE:O	6:K:255:LYS:HG3	2.16	0.46
7:N:741:GLY:C	7:N:743:ASN:H	2.23	0.46
7:N:768:GLN:HB3	7:N:771:PHE:HB2	1.98	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:293:ALA:HA	10:Q:301:ASP:OD2	2.15	0.46
12:S:217:VAL:O	12:S:218:TYR:C	2.58	0.46
14:U:79:TYR:CE1	14:U:83:LYS:NZ	2.63	0.46
14:U:275:LEU:HD11	14:U:279:LYS:HD3	1.97	0.46
15:V:220:LEU:HD12	15:V:221:HIS:CD2	2.51	0.46
15:V:237:HIS:CE1	15:V:298:GLN:CD	2.94	0.46
16:W:54:LEU:HA	16:W:58:CYS:HB3	1.98	0.46
19:B:67:THR:HG22	19:B:69:LEU:N	2.28	0.46
28:c:34:MET:HE3	28:c:37:THR:HG23	1.98	0.46
2:v:189:GLU:HG2	2:v:339:ARG:HH21	1.81	0.46
1:w:118:ASP:C	1:w:120:HIS:H	2.24	0.46
1:w:401:GLU:HG3	1:w:422:SER:HB2	1.95	0.46
5:x:157:GLN:O	5:x:160:GLU:HB2	2.15	0.46
6:y:267:ILE:HG12	6:y:311:THR:HG21	1.97	0.46
6:y:268:ASP:OD2	3:z:258:MET:HE1	2.15	0.46
6:y:299:PHE:CD1	6:y:303:VAL:HG21	2.50	0.46
6:y:374:ASP:C	6:y:376:ASN:N	2.72	0.46
3:z:50:LEU:HD13	4:0:82:VAL:CG2	2.35	0.46
4:0:173:LYS:C	4:0:175:MET:H	2.24	0.46
7:1:634:PRO:O	7:1:638:SER:N	2.46	0.46
8:2:34:TRP:H	16:AA:18:ASN:HD22	1.58	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
9:3:314:LEU:HD13	9:3:381:LEU:HD22	1.96	0.46
11:5:28:LEU:C	11:5:30:GLU:H	2.25	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
15:9:59:GLY:HA3	15:9:68:ARG:O	2.15	0.46
15:9:251:LEU:O	15:9:254:ASN:N	2.49	0.46
18:AC:255:VAL:O	18:AC:257:ARG:N	2.49	0.46
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
2:H:103:ASN:HB3	2:H:136:GLU:CD	2.38	0.45
2:H:111:TYR:CE2	2:H:134:ILE:HD12	2.51	0.45
2:H:133:ASP:C	2:H:134:ILE:CG1	2.89	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
3:L:59:GLU:HA	3:L:96:THR:O	2.16	0.45
3:L:151:LEU:C	3:L:153:LEU:N	2.67	0.45
3:L:162:VAL:HG12	3:L:164:ILE:HD12	1.98	0.45
3:L:304:PRO:HB3	3:L:308:ALA:HB1	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:234:THR:HB	33:M:501:ADP:O2A	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
5:J:189:TYR:CG	5:J:298:ILE:CG1	3.00	0.45
5:J:301:LEU:HD12	5:J:301:LEU:C	2.41	0.45
6:K:92:PHE:CE2	6:K:124:LEU:CG	2.99	0.45
6:K:230:VAL:CG1	6:K:235:PHE:CZ	2.98	0.45
6:K:354:LEU:CD2	6:K:399:PHE:CZ	2.96	0.45
6:K:385:LEU:HD23	6:K:398:ASP:HA	1.98	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
8:O:374:ILE:CD1	13:T:347:GLU:CD	2.88	0.45
10:Q:76:PHE:HA	10:Q:80:ILE:H	1.81	0.45
10:Q:396:THR:HG1	15:V:242:GLU:CG	2.09	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
13:T:346:LEU:CD1	15:V:296:ILE:CD1	2.95	0.45
14:U:94:TRP:HE1	14:U:109:ASN:HA	1.80	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
15:V:52:GLU:CD	15:V:82:VAL:HG12	2.41	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
19:h:67:THR:HG23	19:h:216:GLU:OE2	2.17	0.45
25:n:77:VAL:HG11	25:n:84:ALA:HB1	1.98	0.45
2:v:133:ASP:C	2:v:134:ILE:CG1	2.89	0.45
1:w:356:PRO:O	1:w:357:ASP:HB3	2.16	0.45
5:x:134:LEU:HD13	5:x:134:LEU:C	2.41	0.45
5:x:156:LYS:O	5:x:160:GLU:HG2	2.16	0.45
5:x:165:ILE:O	5:x:168:PRO:HD2	2.16	0.45
5:x:247:PHE:C	5:x:248:MET:CG	2.84	0.45
5:x:303:SER:O	5:x:306:LEU:N	2.49	0.45
6:y:251:PHE:O	6:y:255:LYS:HG3	2.16	0.45
3:z:368:MET:O	3:z:369:LYS:C	2.59	0.45
4:0:233:LYS:HG2	4:0:354:PHE:CE2	2.51	0.45
7:1:64:ALA:O	7:1:68:PHE:N	2.48	0.45
7:1:347:ASN:ND2	7:1:883:ARG:HH12	2.14	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
8:2:274:LEU:C	8:2:274:LEU:CD2	2.89	0.45
9:3:300:PRO:O	9:3:303:LYS:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:4:294:SER:O	10:4:297:ARG:CA	2.62	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
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: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
1:I:116:ILE:C	1:I:118:ASP:H	2.25	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
1:I:372:MET:HB3	5:J:179:GLY:O	2.17	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
3:L:93:LYS:HB3	3:L:94:PRO:HD2	1.98	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:HD23	3:L:270:LEU:HA	1.68	0.45
33:L:401:ADP:N3	33:L:401:ADP:H2'	2.30	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
4:M:439:ALA:HB1	24:m:62:LYS:HZ2	1.81	0.45
5:J:100:ASP:H	5:J:123:LEU:HB2	1.82	0.45
6:K:85:ILE:CG2	6:K:86:PRO:HD3	2.45	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:408:LYS:C	6:K:410:ASP:N	2.74	0.45
7:N:18:GLN:O	7:N:21:GLU:HB3	2.15	0.45
9:P:90:LEU:C	9:P:90:LEU:CD2	2.89	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
12:S:290:TYR:CD1	12:S:290:TYR:C	2.93	0.45
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
19:B:143:ILE:HG12	19:B:220:VAL:HG22	1.98	0.45
23:F:24:VAL:O	23:F:28:ILE:HG12	2.16	0.45
23:F:66:LYS:N	23:F:216:GLU:OE2	2.47	0.45
23:F:166:ASP:HB3	23:F:185:TYR:CE2	2.51	0.45
19:h:16:PHE:HE1	20:i:78:MET:HE3	1.81	0.45
29:r:35:MET:HG2	29:r:45:LEU:HD13	1.96	0.45
2:v:223:THR:O	2:v:227:ARG:CG	2.43	0.45
1:w:225:TYR:HA	1:w:232:LYS:HD3	1.97	0.45
5:x:63:LEU:HD13	6:y:79:VAL:HG11	1.99	0.45
5:x:205:HIS:C	5:x:207:THR:H	2.24	0.45
6:y:391:ARG:HH22	6:y:395:LEU:HD12	1.80	0.45
3:z:58:GLY:N	3:z:74:THR:HG23	2.28	0.45
3:z:87:LEU:CD1	3:z:107:ILE:CG2	2.93	0.45
3:z:109:ARG:CB	3:z:109:ARG:NH1	2.79	0.45
3:z:303:LEU:CD1	3:z:337:GLY:O	2.62	0.45
3:z:327:ASP:OD1	3:z:330:ALA:CA	2.62	0.45
3:z:338:PHE:HZ	3:z:375:ALA:N	2.14	0.45
7:1:135:ASN:HA	7:1:138:PHE:HB2	1.97	0.45
7:1:472:ILE:C	7:1:474:ARG:N	2.74	0.45
9:3:444:HIS:NE2	14:8:138:TYR:CZ	2.78	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
14:8:106:ILE:CG1	14:8:155:PHE:CZ	2.99	0.45
15:9:52:GLU:CD	15:9:82:VAL:HG12	2.41	0.45
15:9:248:MET:HE2	15:9:284:LEU:HD22	1.98	0.45
16:AA:51:LEU:O	16:AA:61:LEU:N	2.42	0.45
17:AB:48:VAL:O	17:AB:49:GLU:C	2.58	0.45
17:AB:51:ASP:O	17:AB:54:ASN:HB2	2.16	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
1:I:375:ALA:C	1:I:377:ASP:H	2.24	0.45
2:H:201:PHE:H	2:H:201:PHE:HD1	1.58	0.45
2:H:359:ALA:HB2	2:H:389:CYS:SG	2.56	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
7:N:492:ASP:HA	7:N:495:ASP:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:535:TYR:O	7:N:539:THR:OG1	2.15	0.45
9:P:190:MET:C	9:P:193:CYS:SG	2.94	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
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
20:C:184:GLU:HG2	10:4:122:ARG:NH2	2.32	0.45
25:X:110:HIS:HB2	26:a:70:LEU:HD21	1.99	0.45
26:a:91:ARG:NH1	32:g:1:THR:OG1	2.49	0.45
28:c:123:SER:OG	28:c:131:MET:HE2	2.16	0.45
29:d:25:ILE:O	29:r:172:ILE:HG12	2.16	0.45
2:v:110:LYS:CG	4:0:86:LEU:HD22	2.47	0.45
2:v:190:VAL:HG11	2:v:212:VAL:HB	1.99	0.45
1:w:116:ILE:C	1:w:118:ASP:H	2.25	0.45
1:w:191:ASP:O	1:w:192:ASN:C	2.57	0.45
1:w:251:VAL:HG12	1:w:253:SER:H	1.82	0.45
1:w:342:ILE:HG23	1:w:350:LYS:HE3	1.96	0.45
5:x:100:ASP:H	5:x:123:LEU:HB2	1.82	0.45
5:x:219:LEU:HD23	6:y:286:GLN:CG	2.41	0.45
5:x:334:ARG:O	11:5:173:ASP:CG	2.60	0.45
6:y:71:GLU:O	6:y:74:HIS:HB2	2.16	0.45
6:y:95:ALA:CB	6:y:101:ALA:HB2	2.46	0.45
6:y:244:PRO:HG3	6:y:291:GLU:HG2	1.98	0.45
3:z:213:ARG:HH11	3:z:213:ARG:CG	2.30	0.45
3:z:235:ILE:HD12	3:z:277:MET:SD	2.56	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
9:3:168:GLU:C	9:3:170:GLN:N	2.66	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
1:I:173:VAL:CG1	5:J:232:ARG:CB	2.95	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
2:H:112:ILE:C	2:H:113:ILE:HG13	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:119:ALA:CB	4:M:127:SER:CB	2.86	0.45
3:L:178:THR:CB	3:L:301:ILE:O	2.65	0.45
3:L:199:VAL:HB	4:M:315:ASN:ND2	2.32	0.45
3:L:349:GLU:HB3	3:L:370:ALA:HB1	1.97	0.45
4:M:139:LEU:HD12	4:M:161:LEU:HD23	1.98	0.45
5:J:154:LEU:CD2	5:J:157:GLN:HG3	2.47	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
7:N:597:LYS:O	7:N:601:ARG:N	2.34	0.45
7:N:597:LYS:HA	7:N:600:ARG:HB3	1.99	0.45
8:O:192:GLU:O	8:O:195:GLU:N	2.49	0.45
9:P:401:THR:C	9:P:402:ILE:CG2	2.89	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
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
19:h:53:GLN:OE1	19:h:55:LYS:HE3	2.16	0.45
20:i:74:VAL:HG23	20:i:134:LEU:HB2	1.98	0.45
25:n:99:ARG:NH1	32:u:69:GLN:OE1	2.44	0.45
27:p:198:ARG:HH21	28:q:152:SER:C	2.24	0.45
32:u:20:VAL:HB	32:u:192:VAL:HG23	1.97	0.45
2:v:190:VAL:HG13	2:v:209:PRO:O	2.16	0.45
2:v:333:ARG:HD2	2:v:334:PRO:O	2.16	0.45
1:w:136:LEU:HD12	1:w:160:ILE:HG23	1.97	0.45
1:w:317:ASP:OD2	1:w:346:ARG:NH2	2.48	0.45
1:w:359:LYS:O	1:w:362:LYS:HB2	2.16	0.45
5:x:138:MET:CE	5:x:143:VAL:CG2	2.81	0.45
5:x:328:ILE:HD11	33:x:501:ADP:N6	2.31	0.45
3:z:104:THR:OG1	15:9:50:PRO:HB2	2.17	0.45
3:z:199:VAL:HB	4:0:315:ASN:ND2	2.32	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
7:1:406:ALA:C	7:1:408:LEU:N	2.74	0.45
7:1:597:LYS:HA	7:1:600:ARG:HB3	1.99	0.45
7:1:793:LYS:C	7:1:795:LEU:N	2.73	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:901:GLN:O	7:1:915:LYS:HB3	2.17	0.45
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
9:3:90:LEU:C	9:3:90:LEU:CD2	2.89	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
10:4:110:CYS:O	10:4:111:LEU:C	2.59	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
14:8:234: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
1:I:112:LEU:CB	1:I:148:CYS:H	2.24	0.45
1:I:226:GLY:O	1:I:332:ASN:HA	2.17	0.45
1:I:257:GLN:NE2	1:I:266:LEU:HG	2.07	0.45
2:H:157:ILE:HD13	2:H:263:MET:HG2	1.97	0.45
2:H:190:VAL:HG13	2:H:209:PRO:O	2.16	0.45
4:M:142:ALA:C	4:M:145:LEU:H	2.10	0.45
4:M:185:TYR:HE2	4:M:243:GLN:HG2	1.81	0.45
4:M:383:GLU:OE2	24:m:170:THR:HG21	2.16	0.45
4:M:416:THR:O	4:M:420:TYR:HD2	1.98	0.45
5:J:195:GLY:N	33:J:501:ADP:N7	2.64	0.45
5:J:303:SER:O	5:J:306:LEU:N	2.49	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
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
20:C:75:TYR:HB3	20:C:82:TYR:CD1	2.51	0.45
29:d:1:MET:CE	29:d:134:TYR:H	2.28	0.45
31:t:38:ARG:NH2	31:t:212:LYS:O	2.50	0.45
32:u:124:TYR:O	32:u:131:ALA:HA	2.16	0.45
2:v:80:LEU:O	2:v:84:LYS:N	2.45	0.45
2:v:291:GLY:C	2:v:293:ASN:N	2.75	0.45
2:v:359:ALA:HB2	2:v:389:CYS:SG	2.56	0.45
1:w:263:GLY:H	1:w:264:PRO:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:288:ASP:C	1:w:292:THR:HG22	2.42	0.45
5:x:31:LEU:HA	5:x:31:LEU:HD23	1.80	0.45
5:x:33:LEU:HD21	6:y:47:LEU:HB3	1.98	0.45
5:x:113:ARG:O	5:x:114:VAL:HG13	2.15	0.45
5:x:195:GLY:N	33:x:501:ADP:N7	2.64	0.45
3:z:18:GLU:O	3:z:22:ILE:N	2.39	0.45
3:z:156:PRO:O	3:z:159:PHE:HB2	2.17	0.45
3:z:282:PRO:CG	3:z:386:TYR:O	2.64	0.45
7:1:138:PHE:O	7:1:141:CYS:HB2	2.17	0.45
7:1:601:ARG:HH11	7:1:601:ARG:CG	2.30	0.45
9:3:211:THR:HA	9:3:214:PHE:CD2	2.52	0.45
10:4:76:PHE:CA	10:4:80:ILE:CB	2.95	0.45
10:4:179:ALA:C	10:4:181:SER:N	2.75	0.45
11:5:139:ASP:O	11:5:142:PHE:HB2	2.16	0.45
14:8:12:HIS:O	14:8:15:VAL:HG22	2.17	0.45
15:9:31:VAL:HA	15:9:67:VAL:O	2.15	0.45
15:9:299:CYS:O	15:9:303:MET:HG2	2.17	0.45
18:AC:498:LEU:O	18:AC:501:LEU:N	2.49	0.45
1:I:251:VAL:HG12	1:I:253:SER:H	1.82	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
3:L:61:LEU:HD11	3:L:78:ARG:HG3	1.93	0.45
4:M:123:VAL:C	4:M:124:ILE:HG13	2.42	0.45
4:M:418:GLU:O	4:M:422:GLU:HG3	2.17	0.45
5:J:77:VAL:O	5:J:78:ARG:HB3	2.16	0.45
5:J:368:MET:HE3	6:K:329:ARG:NH2	2.31	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
6:K:319:PRO:C	6:K:321:LEU:N	2.74	0.45
7:N:3:THR:N	13:T:127:ASN:CG	2.74	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:420:ASP:C	9:P:422:ASN:N	2.66	0.45
10:Q:191:THR:HG22	10:Q:192:SER:N	2.32	0.45
10:Q:365:LEU:HD23	10:Q:365:LEU:HA	1.86	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
14:U:196:HIS:ND1	14:U:196:HIS:C	2.74	0.45
17:Y:51:ASP:O	17:Y:54:ASN:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
19:B:67:THR:HG23	19:B:216:GLU:OE2	2.16	0.45
21:D:158:GLY:HA3	22:E:58:THR:HG21	1.98	0.45
22:E:96:LEU:HD21	29:d:58:GLU:HB3	1.98	0.45
20:i:189:THR:HA	20:i:192:LEU:HB2	1.97	0.45
30:s:113:TYR:O	30:s:120:ARG:HA	2.16	0.45
32:u:96:MET:HE3	32:u:127:MET:HA	1.99	0.45
2:v:306:LEU:CD1	2:v:312:ARG:HH21	2.29	0.45
2:v:425:ALA:C	2:v:427:PRO:HD2	2.42	0.45
1:w:406:ALA:O	1:w:411:ARG:N	2.46	0.45
5:x:66:LEU:O	6:y:136:SER:HB3	2.16	0.45
5:x:99:VAL:HG23	5:x:100:ASP:O	2.16	0.45
5:x:133:PRO:CD	5:x:237:MET:HE1	2.46	0.45
6:y:92:PHE:CE2	6:y:124:LEU:CG	2.99	0.45
6:y:239:TYR:CE2	6:y:245:ARG:NH2	2.68	0.45
6:y:332:GLU:C	6:y:333:PHE:HD1	2.25	0.45
3:z:313:LEU:CD2	3:z:332:VAL:HG23	2.46	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
7:1:813:TYR:CB	7:1:883:ARG:HE	2.28	0.45
8:2:11:SER:CB	8:2:22:TRP:HB3	2.39	0.45
8:2:142:LEU:HD22	8:2:155:PHE:CD2	2.51	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
10:4:418:ALA:CB	11:5:387:ILE:HD11	2.46	0.45
11:5:104:MET:O	11:5:107:LYS:N	2.49	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
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
2:H:90:GLU:HA	2:H:93:LEU:HB2	1.97	0.45
2:H:110:LYS:CG	4:M:86:LEU:HD22	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
3:L:146:ARG:NH1	3:L:146:ARG:HG2	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:169:ASP:OD2	4:M:267:LEU:HD12	2.15	0.45
4:M:221:LYS:O	4:M:222:GLY:O	2.34	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
7:N:347:ASN:ND2	7:N:883:ARG:HH12	2.14	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:HH11	7:N:601:ARG:CG	2.30	0.45
7:N:788:VAL:HG23	7:N:884:VAL:HG11	1.99	0.45
9:P:422:ASN:HD21	15:V:235:SER:HA	1.82	0.45
9:P:435:LEU:HD23	9:P:435:LEU:C	2.41	0.45
10:Q:256:LEU:CD2	10:Q:319:ILE:CD1	2.90	0.45
10:Q:320:SER:O	10:Q:321:THR:C	2.59	0.45
10:Q:390:GLU:O	10:Q:391:PRO:CB	2.64	0.45
11:R:139:ASP:O	11:R:142:PHE:HB2	2.16	0.45
11:R:204:THR:HG1	11:R:219:PHE:HZ	0.66	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
18:Z:604:GLY:C	18:Z:606:VAL:N	2.75	0.45
19:B:109:ILE:HD11	19:B:114:LEU:HA	1.99	0.45
21:D:72:MET:HE3	21:D:72:MET:HB2	1.71	0.45
27:b:210:ALA:HB3	28:c:201:LYS:HB3	1.99	0.45
32:g:124:TYR:O	32:g:131:ALA:HA	2.17	0.45
21:j:174:MET:HB2	21:j:174:MET:HE3	1.75	0.45
27:p:174:ASP:CG	27:p:187:ARG:O	2.59	0.45
31:t:46:LEU:HB3	31:t:72:LEU:HD11	1.99	0.45
31:t:160:ASN:O	31:t:160:ASN:ND2	2.45	0.45
2:v:112:ILE:C	2:v:113:ILE:HG13	2.42	0.45
2:v:146:LYS:HA	2:v:146:LYS:HD2	1.68	0.45
2:v:209:PRO:HG2	2:v:339:ARG:HE	1.81	0.45
2:v:236:CYS:O	2:v:271:LEU:N	2.44	0.45
2:v:393:GLY:CA	1:w:214:MET:HE1	2.46	0.45
1:w:108:SER:HB3	1:w:154:HIS:CE1	2.52	0.45
1:w:150:VAL:HG23	1:w:152:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:173:VAL:CG1	5:x:232:ARG:CB	2.95	0.45
1:w:200:SER:HB3	1:w:349:ARG:NH1	2.31	0.45
1:w:203:LEU:HD23	1:w:211:TYR:HH	1.82	0.45
1:w:372:MET:HB3	5:x:179:GLY:O	2.17	0.45
5:x:85:VAL:HG21	5:x:123:LEU:CD1	2.45	0.45
5:x:326:LEU:HD11	5:x:345:ARG:HG3	1.98	0.45
6:y:160:PRO:CD	6:y:220:ALA:HB3	2.43	0.45
6:y:268:ASP:O	6:y:272:THR:CG2	2.58	0.45
6:y:406:VAL:C	6:y:408:LYS:HG2	2.42	0.45
6:y:408:LYS:C	6:y:410:ASP:N	2.74	0.45
4:0:198:LEU:HD12	4:0:240: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
7:1:541:HIS:CG	7:1:544:ILE:HD12	2.51	0.45
7:1:788:VAL:HG23	7:1:884:VAL:HG21	1.99	0.45
7:1:808:PRO:HB3	7:1:811:PHE:HD1	1.80	0.45
9:3:285:ASP:N	9:3:285:ASP:OD1	2.47	0.45
12:6:188:SER:O	12:6:192:MET:CB	2.64	0.45
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
14:8:217:THR:C	14:8:219:LYS:N	2.74	0.45
15:9:220:LEU:HD12	15:9:221:HIS:CD2	2.51	0.45
18:AC:198:HIS:C	18:AC:200:ALA:H	2.24	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
2:H:123:VAL:HB	2:H:147:TYR:O	2.16	0.45
2:H:334:PRO:CB	4:M:398:ALA:HB2	2.47	0.45
2:H:368:ILE:HG21	2:H:406:GLU:N	2.32	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
6:K:93:LEU:HD22	6:K:110:ASN:HD21	1.80	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:Q:133:LEU:CD1	10:Q:137:TYR:CE2	2.99	0.45
10:Q:260:MET:HE1	10:Q:325:LYS:CG	2.47	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
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
28:c:15:LYS:HZ2	28:c:134:ASP:HA	1.82	0.45
28:c:107:PRO:HG2	28:c:124:LEU:HB2	1.99	0.45
32:g:92:LEU:O	32:g:96:MET:HG2	2.16	0.45
32:u:92:LEU:O	32:u:96:MET:HG2	2.17	0.45
2:v:224:LEU:HA	2:v:227:ARG:HD3	1.97	0.45
2:v:268:LYS:O	2:v:269:ALA:HB3	2.17	0.45
2:v:366:ARG:HA	2:v:366:ARG:HD3	1.76	0.45
1:w:144:LEU:HG	1:w:162:VAL:HG21	1.90	0.45
1:w:203:LEU:HD23	1:w:211:TYR:OH	2.17	0.45
1:w:223:ILE:HG13	1:w:347:ILE:HG23	1.88	0.45
1:w:271:PHE:HB3	1:w:315:GLN:OE1	2.16	0.45
1:w:287:ILE:HD12	1:w:288:ASP:N	2.31	0.45
1:w:315:GLN:C	1:w:317:ASP:H	2.25	0.45
5:x:28:ILE:O	5:x:31:LEU:HB2	2.17	0.45
5:x:123:LEU:HD23	5:x:123:LEU:HA	1.78	0.45
6:y:96:VAL:HG21	6:y:112:TYR:CD1	2.52	0.45
6:y:175:GLN:HG2	6:y:179:GLU:HG3	1.97	0.45
6:y:244:PRO:CB	6:y:291:GLU:HG3	2.47	0.45
6:y:276:ASP:N	6:y:282:ASP:OD2	2.49	0.45
3:z:43:SER:OG	4:0:75:GLU:OE2	2.31	0.45
3:z:59:GLU:HA	3:z:96:THR:O	2.16	0.45
3:z:101:ASP:HB3	3:z:106:THR:H	1.82	0.45
3:z:205:ASP:OD2	3:z:210:GLU:HG2	2.16	0.45
3:z:241:ARG:NH1	3:z:241:ARG:CG	2.80	0.45
4:0:378:ASP:C	4:0:379:VAL:HG23	2.40	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
11:5:260:LEU:CD2	11:5:260:LEU:C	2.90	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
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
1:I:134:SER:O	1:I:159:VAL:HB	2.16	0.45
2:H:60:ASN:O	2:H:64:GLY:N	2.31	0.45
2:H:268:LYS:O	2:H:269:ALA:HB3	2.17	0.45
3:L:185:ARG:CG	4:M:320:PHE:CZ	3.00	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
4:M:225:MET:HG3	4:M:354:PHE:CZ	2.52	0.45
4:M:288:LEU:CD2	4:M:342:LEU:CD1	2.88	0.45
4:M:423:GLY:O	4:M:427:VAL:CG2	2.61	0.45
5:J:165:ILE:O	5:J:168:PRO:HD2	2.16	0.45
5:J:169:VAL:O	5:J:170:LYS:C	2.60	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:273:MET:HE1	5:J:305:LEU:HD22	1.96	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:HG3	6:K:287:ARG:H	1.57	0.45
6:K:373:ALA:HA	33:K:501:ADP:O4'	2.17	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
11:R:15:PRO:HD2	11:R:146:ARG:HG2	1.99	0.45
11:R:120:ALA:O	11:R:124:PHE:CG	2.68	0.45
11:R:280:GLN:OE1	11:R:280:GLN:HA	2.17	0.45
12:S:480:ILE:CG2	13:T:342:TYR:CE1	3.00	0.45
13:T:313:ASN:O	13:T:313:ASN:CG	2.60	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:78:VAL:HG12	16:W:79:GLN:N	2.32	0.45
16:W:169:HIS:CD2	16:W:187:PRO:HG2	2.44	0.45
25:X:170:GLN:HG2	3:z:372:ARG:HB3	1.99	0.45
30:e:113:TYR:O	30:e:120:ARG:HA	2.16	0.45
32:g:96:MET:HE3	32:g:127:MET:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:m:166:GLN:OE1	24:m:166:GLN:HA	2.17	0.45
25:n:110:HIS:HB2	26:o:70:LEU:HD21	1.98	0.45
2:v:148:GLN:O	2:v:149:ILE:C	2.59	0.45
2:v:183:GLN:HE21	2:v:343:PHE:HA	1.82	0.45
2:v:257:VAL:O	2:v:260:LEU:HB2	2.17	0.45
1:w:254:GLU:C	1:w:256:ILE:H	2.25	0.45
1:w:288:ASP:CB	1:w:331:THR:HG22	2.30	0.45
5:x:77:VAL:O	5:x:78:ARG:HB3	2.16	0.45
5:x:114:VAL:HG12	5:x:126:ILE:CG1	2.44	0.45
5:x:213:ARG:NH1	5:x:249:ASP:OD2	2.35	0.45
6:y:98:GLN:OE1	6:y:121:ARG:NH2	2.41	0.45
6:y:123:LEU:HD22	6:y:125:LYS:HZ1	1.80	0.45
6:y:205:TYR:HE1	6:y:332:GLU:HG2	1.82	0.45
6:y:373:ALA:HA	33:y:501:ADP:O4'	2.17	0.45
3:z:132:TYR:CD2	3:z:146:ARG:NH2	2.81	0.45
3:z:144:GLU:HA	3:z:147:GLU:OE1	2.17	0.45
3:z:303:LEU:O	3:z:304:PRO:C	2.58	0.45
3:z:384:LEU:CD2	4:0:340:PRO:HB2	2.45	0.45
4:0:168:TYR:OH	4:0:274:LEU:HD23	2.17	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
8:2:306:GLU:O	8:2:307:VAL:C	2.60	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
11:5:210:SER:C	11:5:212:GLU:N	2.75	0.45
11:5:217:LYS:O	11:5:221:THR:HG23	2.16	0.45
13:7:164:PHE:HA	13:7:167:TYR:CD2	2.52	0.45
13:7:313:ASN:O	13:7:313:ASN:CG	2.60	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
1:I:266:LEU:HD23	1:I:266:LEU:HA	1.78	0.45
1:I:293:LYS:HD3	1:I:293:LYS:HA	1.60	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
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
5:J:147:THR:HG22	5:J:150:MET:CE	2.45	0.45
5:J:334:ARG:O	11:R:173:ASP:CG	2.60	0.45
6:K:146:GLU:CG	6:K:147:ALA:N	2.79	0.45
7:N:49:TYR:HA	7:N:57:ARG:HB2	1.99	0.45
7:N:138:PHE:O	7:N:141:CYS:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:123:ARG:CG	9:P:124:LEU:N	2.80	0.45
9:P:211:THR:HA	9:P:214:PHE:CD2	2.52	0.45
10:Q:110:CYS:O	10:Q:111:LEU:C	2.59	0.45
11:R:256:VAL:CG1	11:R:257:ARG:N	2.79	0.45
14:U:253:THR:HG23	14:U:254:ASN:N	2.31	0.45
15:V:299:CYS:O	15:V:303:MET:HG2	2.17	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
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
25:X:77:VAL:HG11	25:X:84:ALA:HB1	1.98	0.45
26:a:200:ALA:HB1	26:o:124:SER:OG	2.17	0.45
27:b:190:THR:O	27:b:192:PRO:HD3	2.16	0.45
27:p:64:GLU:O	27:p:68:LEU:HB2	2.16	0.45
2:v:99:THR:CG2	2:v:142:VAL:CB	2.91	0.45
2:v:200:ARG:C	2:v:202:VAL:N	2.75	0.45
2:v:327:LEU:CB	2:v:332:MET:SD	3.03	0.45
2:v:362:MET:CE	2:v:364:VAL:HG12	2.26	0.45
2:v:384:GLU:O	2:v:387:SER:OG	2.32	0.45
2:v:405:THR:H	2:v:408:ASP:CG	2.19	0.45
5:x:137:LEU:HB2	5:x:224:ILE:HG12	1.96	0.45
5:x:189:TYR:CG	5:x:298:ILE:CG1	3.00	0.45
5:x:301:LEU:HD12	5:x:301:LEU:C	2.41	0.45
6:y:66:LYS:HE2	6:y:70:LYS:HE3	1.97	0.45
6:y:93:LEU:C	6:y:94:GLU:HG3	2.42	0.45
6:y:167:ILE:HA	33:y:501:ADP:C2	2.52	0.45
6:y:183:LEU:CB	6:y:184:PRO:HD3	2.46	0.45
3:z:254:GLN:O	3:z:258:MET:N	2.47	0.45
4:0:317:LEU:HD12	4:0:317:LEU:HA	1.73	0.45
7:1:49:TYR:HA	7:1:57:ARG:HB2	1.99	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
7:1:429:LYS:C	7:1:431:THR:H	2.25	0.45
7:1:735:GLY:O	7:1:739:ALA:N	2.50	0.45
10:4:320:SER:O	10:4:321:THR:C	2.59	0.45
10:4:414:LEU:HG	14:8:276:ILE:CD1	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:218:THR:OG1	11:5:219:PHE:N	2.49	0.45
11:5:218:THR:O	11:5:221:THR:OG1	2.33	0.45
11:5:268:TYR:HD2	11:5:323:PHE:CE1	2.34	0.45
12:6:469:THR:C	12:6:472:PRO:CD	2.90	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
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:147:GLU:OE1	16:AA:172:THR:HG22	2.17	0.45
1:I:203:LEU:C	1:I:205:LEU:N	2.76	0.44
1:I:216:ILE:HD13	2:H:393:GLY:HA3	1.97	0.44
3:L:99:ALA:HB3	3:L:109:ARG:N	2.32	0.44
3:L:264:MET:CG	3:L:275:MET:HE2	2.45	0.44
5:J:28:ILE:O	5:J:31:LEU:HB2	2.17	0.44
5:J:133:PRO:HD2	5:J:134:LEU:H	1.81	0.44
5:J:134:LEU:HD13	5:J:134:LEU:C	2.41	0.44
5:J:137:LEU:CB	5:J:224:ILE:HG12	2.47	0.44
5:J:147:THR:HG23	5:J:150:MET:CE	2.34	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
7:N:474:ARG:CG	7:N:500:ASN:CG	2.90	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:93:LEU:HD12	10:Q:129:LEU:CD1	2.46	0.44
10:Q:250:SER:HA	10:Q:253:TYR:CD2	2.49	0.44
11:R:270:VAL:O	11:R:271:PHE:C	2.60	0.44
11:R:366:TYR:HE1	11:R:370:ILE:CG1	2.30	0.44
12:S:207:ALA:C	12:S:210:CYS:HB3	2.41	0.44
12:S:469:THR:C	12:S:472:PRO:CD	2.90	0.44
13:T:326:GLU:CB	14:U:246:VAL:HG21	2.46	0.44
18:Z:198:HIS:C	18:Z:200:ALA:H	2.24	0.44
18:Z:255:VAL:O	18:Z:257:ARG:N	2.49	0.44
19:B:103:TYR:O	19:B:103:TYR:CD1	2.70	0.44
26:a:15:GLY:HA2	26:a:175:ARG:O	2.17	0.44
27:b:114:TYR:CE2	27:b:127:MET:HE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:l:202:LEU:HD12	23:l:202:LEU:HA	1.83	0.44
24:m:239:ARG:HH11	24:m:239:ARG:C	2.23	0.44
26:o:15:GLY:HA2	26:o:175:ARG:O	2.17	0.44
28:q:15:LYS:HZ2	28:q:134:ASP:HA	1.82	0.44
2:v:239:ARG:O	2:v:239:ARG:CG	2.63	0.44
2:v:306:LEU:O	2:v:307:ASP:HB2	2.17	0.44
2:v:309:PHE:HD1	2:v:310:ASP:N	2.13	0.44
2:v:333:ARG:NH2	33:0:501:ADP:O3A	2.50	0.44
2:v:368:ILE:CD1	2:v:409:PHE:HD2	2.30	0.44
1:w:188:GLY:O	1:w:364:ILE:CG1	2.65	0.44
1:w:210:TYR:CD1	1:w:210:TYR:N	2.84	0.44
1:w:219:PRO:O	1:w:220:LYS:C	2.59	0.44
5:x:218:GLU:HB2	6:y:275:PHE:HB2	1.99	0.44
6:y:115:ILE:HD12	6:y:121:ARG:HH11	1.64	0.44
6:y:303:VAL:O	6:y:305:VAL:N	2.46	0.44
3:z:173:TYR:O	3:z:173:TYR:CD1	2.70	0.44
4:0:91:SER:OG	4:0:151:VAL:CG2	2.65	0.44
4:0:304:ARG:HD3	4:0:304:ARG:HA	1.60	0.44
7:1:270:THR:C	7:1:272:GLY:N	2.73	0.44
7:1:420:LEU:O	7:1:424:ALA:N	2.50	0.44
7:1:474:ARG:CG	7:1:500:ASN:CG	2.90	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
10:4:417:LYS:HG3	15:9:263:ASP:OD2	2.17	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
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
16:AA:131:LEU:HD11	16:AA:156:PHE:CZ	2.51	0.44
1:I:115:ILE:HD11	1:I:146:PRO:CG	2.48	0.44
1:I:120:HIS:CD2	1:I:120:HIS:O	2.70	0.44
1:I:287:ILE:HG21	1:I:329:MET:HE3	1.99	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
4:M:423:GLY:C	4:M:427:VAL:HG23	2.43	0.44
5:J:35:VAL:O	5:J:38:LYS:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
5:J:326:LEU:CD1	5:J:345:ARG:CG	2.91	0.44
5:J:377:HIS:CE1	11:R:206:SER:CB	2.98	0.44
6:K:167:ILE:HA	33:K:501:ADP:C2	2.52	0.44
6:K:374:ASP:C	6:K:376:ASN:N	2.72	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:74:CYS:SG	9:P:75:TYR:N	2.90	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
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
21:j:164:ILE:HD13	21:j:164:ILE:HA	1.90	0.44
24:m:211:SER:OG	24:m:225:ASP:OD1	2.33	0.44
2:v:247:GLN:HB2	2:v:248:LYS:H	1.56	0.44
2:v:274:PHE:HB3	2:v:277:ILE:HG23	1.99	0.44
2:v:368:ILE:HD11	2:v:409:PHE:CD2	2.52	0.44
1:w:107:MET:CE	1:w:160:ILE:CB	2.88	0.44
1:w:120:HIS:HB2	1:w:133:VAL:O	2.17	0.44
1:w:180:PRO:CB	1:w:240:ALA:HB3	2.47	0.44
5:x:243:PRO:HA	5:x:288:ASN:O	2.18	0.44
5:x:247:PHE:CZ	5:x:294:ALA:HB3	2.52	0.44
5:x:274:LEU:HA	5:x:277:LEU:HD12	1.99	0.44
5:x:329:LEU:HD21	5:x:344:LEU:HB3	2.00	0.44
5:x:334:ARG:HG2	11:5:173:ASP:OD2	2.17	0.44
6:y:147:ALA:HB3	6:y:249:ASP:OD1	2.16	0.44
6:y:284:GLU:O	6:y:288:ILE:HG13	2.16	0.44
6:y:368:ASP:O	6:y:369:LYS:CB	2.65	0.44
6:y:372:GLY:HA3	33:y:501:ADP:N7	2.32	0.44
4:0:80:ILE:HG22	4:0:84:LYS:CG	2.38	0.44
4:0:179:GLU:O	4:0:180:ARG:O	2.35	0.44
7:1:378:CYS:C	7:1:380:THR:H	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:HD23	10:4:111:LEU:HA	1.77	0.44
10:4:133:LEU:CD1	10:4:137:TYR:CE2	2.99	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
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
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
1:I:254:GLU:C	1:I:256:ILE:H	2.25	0.44
1:I:427:LEU:O	1:I:428:TYR:C	2.61	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
3:L:56:ILE:HB	3:L:100:LEU:HB2	1.97	0.44
3:L:173:TYR:O	3:L:173:TYR:CD1	2.70	0.44
3:L:242:ARG:O	3:L:243:PHE:CG	2.70	0.44
3:L:365:GLU:C	3:L:367:PHE:N	2.76	0.44
3:L:385:ASP:O	3:L:386:TYR:CG	2.70	0.44
4:M:91:SER:OG	4:M:151:VAL:CG2	2.65	0.44
4:M:121:CYS:HB3	4:M:133:PHE:HE1	1.75	0.44
5:J:46:GLN:HG2	6:K:61:ILE:HG22	1.98	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
6:K:215:LEU:HD12	6:K:215:LEU:HA	1.77	0.44
6:K:312:ASN:ND2	6:K:312:ASN:N	2.64	0.44
7:N:68:PHE:CB	7:N:73:ALA:HB3	2.46	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
9:P:78:LYS:HA	9:P:79:GLU:O	2.17	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
10:Q:76:PHE:CA	10:Q:80:ILE:CB	2.95	0.44
10:Q:414:LEU:HG	14:U:276:ILE:CD1	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:28:LEU:C	11:R:30:GLU:H	2.25	0.44
12:S:472:PRO:O	12:S:476:PHE:CE2	2.61	0.44
15:V:149:GLN:O	15:V:150:SER:C	2.59	0.44
16:W:65:THR:O	16:W:66:PRO:CB	2.65	0.44
19:h:67:THR:HG22	19:h:69:LEU:N	2.27	0.44
24:m:196:ARG:C	24:m:198:THR:N	2.75	0.44
27:p:20:ALA:HB3	27:p:28:ASP:HB3	1.99	0.44
27:p:189:TYR:O	27:p:190:THR:OG1	2.32	0.44
2:v:99:THR:N	2:v:140:VAL:O	2.50	0.44
2:v:312:ARG:NH2	2:v:317:VAL:HG21	2.31	0.44
2:v:368:ILE:HG21	2:v:406:GLU:N	2.32	0.44
1:w:173:VAL:HG13	5:x:232:ARG:HB3	1.98	0.44
1:w:181:GLN:O	1:w:241:ASN:HB2	2.18	0.44
1:w:226:GLY:O	1:w:332:ASN:HA	2.17	0.44
1:w:390:LEU:HD12	1:w:391:SER:O	2.17	0.44
5:x:43:ARG:CG	6:y:61:ILE:HG13	2.43	0.44
5:x:209:CYS:HA	5:x:243:PRO:O	2.16	0.44
5:x:209:CYS:HB3	5:x:243:PRO:O	2.17	0.44
6:y:203:LEU:CD2	6:y:204:MET:N	2.80	0.44
6:y:378:ILE:HG13	6:y:406:VAL:CG2	2.25	0.44
6:y:394:VAL:HG11	6:y:398:ASP:HB2	1.82	0.44
3:z:221:TYR:CD1	3:z:222:ALA:N	2.85	0.44
3:z:360:ASP:O	4:0:215:LEU:HD12	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
7:1:267:ASN:O	7:1:271:VAL:N	2.31	0.44
7:1:357:LYS:HZ2	7:1:385:PHE:CB	2.27	0.44
7:1:610:VAL:CG1	14:8:178:ASP:CG	2.86	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
9:3:212:LYS:HA	9:3:212:LYS:HD3	1.73	0.44
10:4:61:GLY:O	10:4:64:ALA:CA	2.65	0.44
10:4:339:ILE:HG21	10:4:385:LEU:HD23	2.00	0.44
10:4:365:LEU:O	10:4:369:ILE:HG12	2.18	0.44
11:5:227:SER:HB2	11:5:231:LEU:HD11	1.98	0.44
11:5:228:MET:HE1	11:5:271:PHE:HE2	1.79	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
12:6:494:MET:O	14:8:278:ASN:ND2	2.50	0.44
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:9:294:SER:O	15:9:297:VAL:HG23	2.17	0.44
1:I:180:PRO:CB	1:I:240:ALA:HB3	2.47	0.44
1:I:189:GLY:CA	1:I:360:THR:CB	2.93	0.44
1:I:193:GLN:HG3	1:I:351:ILE:CG2	2.48	0.44
1:I:249:ARG:HH21	5:J:278:ASN:CB	2.25	0.44
1:I:271:PHE:HB3	1:I:315:GLN:OE1	2.16	0.44
2:H:206:ILE:C	2:H:207:GLU:HG3	2.43	0.44
2:H:333:ARG:HG2	2:H:334:PRO:N	2.30	0.44
2:H:333:ARG:NH2	33:M:501:ADP:O3A	2.50	0.44
2:H:368:ILE:HD11	2:H:409:PHE:CD2	2.52	0.44
3:L:97:ARG:NE	3:L:112:PRO:O	2.51	0.44
3:L:213:ARG:HH11	3:L:213:ARG:CG	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
4:M:284:PHE:HD1	4:M:284:PHE:C	2.24	0.44
5:J:274:LEU:HA	5:J:277:LEU:HD12	1.99	0.44
6:K:203:LEU:HD22	6:K:204:MET:N	2.32	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:73:MET:O	9:P:76:GLU:CG	2.66	0.44
11:R:28:LEU:HB3	11:R:29:PRO:HD2	1.99	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:237:ARG:HG3	11:R:238:GLU:N	2.31	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
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
22:E:200:GLN:HG2	1:w:358:GLU:HB2	1.98	0.44
27:b:20:ALA:HB3	27:b:28:ASP:HB3	1.98	0.44
30:e:8:PHE:N	30:e:8:PHE:HD1	2.15	0.44
28:q:66:ARG:O	28:q:69:PHE:HB3	2.18	0.44
2:v:238:ILE:HG22	2:v:240:VAL:HG23	2.00	0.44
1:w:225:TYR:CA	1:w:232:LYS:HD3	2.47	0.44
1:w:257:GLN:OE1	1:w:266:LEU:HD11	2.17	0.44
5:x:78:ARG:HH11	5:x:80:MET:CG	2.30	0.44
5:x:209:CYS:CB	5:x:243:PRO:O	2.66	0.44
5:x:338:LEU:O	11:5:207:THR:CG2	2.66	0.44
6:y:98:GLN:OE1	6:y:99:ASN:N	2.49	0.44
6:y:118:THR:O	6:y:119:ILE:C	2.59	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:153:MET:O	6:y:155:THR:N	2.46	0.44
3:z:242:ARG:HA	3:z:254:GLN:HE22	1.83	0.44
3:z:242:ARG:O	3:z:243:PHE:CG	2.70	0.44
3:z:344:ARG:NH2	33:z:401:ADP:O3'	2.50	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
7:1:557:TYR:C	7:1:559:ARG:H	2.26	0.44
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
8:2:248:PHE:O	8:2:249:GLN:C	2.61	0.44
9:3:260:SER:HA	9:3:263:TRP:NE1	2.31	0.44
11:5:130:LYS:O	11:5:132:VAL:CG2	2.66	0.44
14:8:19:VAL:O	14:8:22:HIS:HB3	2.17	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
15:9:51:MET:O	15:9:53:VAL:N	2.51	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
2:H:83:ASP:O	2:H:84:LYS:C	2.60	0.44
2:H:148:GLN:O	2:H:149:ILE:C	2.59	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
4:M:231:THR:C	33:M:501:ADP:H8	2.26	0.44
5:J:77:VAL:O	5:J:78:ARG:CB	2.65	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:133:PRO:CG	5:J:237:MET:HE3	2.26	0.44
5:J:141:GLU:HG3	5:J:213:ARG:HB3	1.99	0.44
7:N:603:LEU:O	7:N:607:VAL:N	2.32	0.44
7:N:677:ASN:C	7:N:684:ARG:HH21	2.26	0.44
10:Q:417:LYS:HG3	15:V:263:ASP:OD2	2.17	0.44
11:R:66:ASP:C	11:R:68:ASP:N	2.75	0.44
11:R:362:LYS:HE2	11:R:362:LYS:N	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W:120:ASN:CG	16:W:123:ASP:HB3	2.43	0.44
21:D:8:ARG:CZ	22:E:5:ARG:HD3	2.47	0.44
28:c:138:VAL:HB	28:c:146:MET:HE3	1.98	0.44
31:f:38:ARG:NH2	31:f:212:LYS:O	2.51	0.44
32:g:177:TYR:CZ	32:g:185:ASN:HB2	2.52	0.44
20:i:73:LEU:HD21	20:i:135:ILE:HG12	1.98	0.44
22:k:7:ILE:HG22	22:k:18:GLN:HG3	1.99	0.44
31:t:91:MET:HE2	31:t:91:MET:HB3	1.86	0.44
1:w:115:ILE:HD11	1:w:146:PRO:CG	2.48	0.44
1:w:189:GLY:CA	1:w:360:THR:CB	2.93	0.44
1:w:375:ALA:C	1:w:377:ASP:H	2.24	0.44
5:x:116:LEU:HD21	5:x:121:TYR:CG	2.49	0.44
5:x:133:PRO:HD2	5:x:134:LEU:H	1.81	0.44
6:y:203:LEU:HD22	6:y:204:MET:N	2.32	0.44
3:z:137:GLY:C	3:z:138:LEU:HG	2.42	0.44
3:z:385:ASP:O	3:z:386:TYR:CG	2.70	0.44
7:1:397:THR:O	7:1:398:ASN:C	2.61	0.44
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
9:3:74:CYS:SG	9:3:75:TYR:N	2.90	0.44
9:3:142:ARG:O	9:3:146:THR:HG23	2.16	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
10:4:191:THR:HG22	10:4:192:SER:N	2.32	0.44
11:5:27:SER:C	11:5:28:LEU:O	2.55	0.44
12:6:196:SER:C	12:6:198:GLN:N	2.75	0.44
12:6:307:ARG:HD3	12:6:307:ARG:HA	1.74	0.44
1:I:118:ASP:HB2	1:I:120:HIS:CD2	2.53	0.44
1:I:160:ILE:CG2	1:I:160:ILE:O	2.66	0.44
2:H:144:ARG:O	2:H:147:TYR:CE1	2.70	0.44
2:H:285:PHE:O	2:H:286:ASP:HB2	2.18	0.44
2:H:348:LEU:CD1	23:l:175:GLU:HB2	2.48	0.44
2:H:405:THR:H	2:H:408:ASP:CG	2.19	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
5:J:104:ASP:HB2	5:J:107:ASP:OD2	2.18	0.44
5:J:116:LEU:HD12	5:J:122:THR:C	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:151:ILE:HG13	5:J:198:LEU:CD2	2.42	0.44
6:K:70:LYS:HE2	14:U:182:THR:CG2	2.48	0.44
6:K:100:THR:CG2	6:K:112:TYR:CD1	2.92	0.44
7:N:341:PHE:HB2	7:N:787:CYS:SG	2.58	0.44
7:N:378:CYS:C	7:N:380:THR:H	2.26	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: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
9:P:88:MET:O	9:P:92:LYS:N	2.40	0.44
10:Q:61:GLY:O	10:Q:64:ALA:HB3	2.18	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
11:R:104:MET:O	11:R:107:LYS:N	2.49	0.44
14:U:12:HIS:O	14:U:15:VAL:HG22	2.17	0.44
14:U:19:VAL:O	14:U:22:HIS:HB3	2.17	0.44
14:U:211:TYR:OH	14:U:223:ASN:ND2	2.44	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
30:e:166:ARG:NH2	29:r:140:LEU:HB3	2.32	0.44
21:j:11:ILE:HD11	22:k:7:ILE:HD12	2.00	0.44
21:j:158:GLY:HA3	22:k:58:THR:HG21	2.00	0.44
23:l:166:ASP:HB3	23:l:185:TYR:CE2	2.53	0.44
2:v:186:LYS:O	2:v:187:LEU:C	2.61	0.44
2:v:261:PHE:HB3	2:v:265:ARG:NH2	2.30	0.44
2:v:285:PHE:O	2:v:286:ASP:HB2	2.18	0.44
2:v:334:PRO:CB	4:0:398:ALA:HB2	2.47	0.44
1:w:293:LYS:NZ	5:x:302:ASP:OD2	2.51	0.44
1:w:365:PHE:HZ	1:w:383:LEU:HD13	1.81	0.44
1:w:408:ARG:O	1:w:410:ARG:N	2.50	0.44
5:x:69:GLN:HA	5:x:69:GLN:HE21	1.79	0.44
5:x:77:VAL:O	5:x:78:ARG:CB	2.65	0.44
5:x:248:MET:HE1	5:x:291:VAL:HG21	2.00	0.44
6:y:89:ILE:HG12	3:z:80:VAL:HG23	2.00	0.44
6:y:204:MET:O	6:y:310:ALA:HA	2.18	0.44
6:y:228:ILE:HD13	6:y:250:VAL:HG13	1.98	0.44
6:y:247:VAL:HG12	6:y:251:PHE:HD2	1.81	0.44
3:z:151:LEU:O	3:z:156:PRO:HD3	2.18	0.44
3:z:264:MET:CG	3:z:275:MET:HE2	2.45	0.44
4:0:124:ILE:O	4:0:131:THR:HA	2.17	0.44
4:0:137:ILE:CD1	4:0:145:LEU:CD1	2.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:207:ASN:O	4:0:208:HIS:CG	2.71	0.44
4:0:359:GLU:O	4:0:360:GLU:C	2.61	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
8:2:254:ALA:C	8:2:256:GLY:N	2.75	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
9:3:422:ASN:HD21	15:9:235:SER:HA	1.82	0.44
9:3:438:LEU:HD12	14:8:236:LEU:HD12	2.00	0.44
10:4:260:MET:HE1	10:4:325:LYS:CG	2.47	0.44
11:5:349:LYS:HB3	12:6:417:ILE:HD13	1.99	0.44
15:9:205:ILE:O	15:9:206:ASN:OD1	2.35	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
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
1:I:204:PRO:C	1:I:208:PRO:HD3	2.43	0.44
1:I:214:MET:HE1	2:H:393:GLY:CA	2.46	0.44
2:H:99:THR:N	2:H:140:VAL:O	2.50	0.44
2:H:284:ARG:C	2:H:285:PHE:O	2.56	0.44
2:H:319:MET:SD	2:H:337:LEU:HD21	2.57	0.44
2:H:425:ALA:C	2:H:427:PRO:HD2	2.42	0.44
3:L:104:THR:OG1	15:V:50:PRO:HB2	2.17	0.44
3:L:237:ALA:C	3:L:239:GLY:N	2.75	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
5:J:33:LEU:O	5:J:36:ASN:HB2	2.18	0.44
5:J:228:ALA:HB3	5:J:233:GLU:CD	2.43	0.44
6:K:49:GLN:O	6:K:52:GLU:HB2	2.18	0.44
6:K:93:LEU:C	6:K:94:GLU:HG3	2.42	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
7:N:168:LEU:HD21	7:N:204:ILE:CB	2.48	0.44
7:N:472:ILE:C	7:N:474:ARG:N	2.74	0.44
7:N:557:TYR:C	7:N:559:ARG:H	2.26	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:353:ASP:O	9:P:356:ASN:N	2.51	0.44
13:T:164:PHE:HA	13:T:167:TYR:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
27:b:173:ILE:O	27:b:189:TYR:N	2.44	0.44
20:i:207:ILE:HD11	20:i:229:LEU:HD21	1.99	0.44
23:l:51:GLU:HA	23:l:215:ILE:HG22	1.99	0.44
30:s:8:PHE:N	30:s:8:PHE:HD1	2.16	0.44
30:s:38:ASN:ND2	30:s:40:TYR:OH	2.50	0.44
2:v:217:PRO:CD	2:v:345:LEU:HD21	2.48	0.44
1:w:107:MET:HE1	1:w:160:ILE:HB	1.94	0.44
5:x:35:VAL:O	5:x:38:LYS:HG2	2.17	0.44
5:x:154:LEU:CD2	5:x:157:GLN:HG3	2.47	0.44
6:y:115:ILE:O	6:y:115:ILE:HG13	2.17	0.44
6:y:126:PRO:CD	6:y:127:ASN:H	2.30	0.44
6:y:151:ILE:CD1	6:y:229:ARG:NH1	2.81	0.44
6:y:222:HIS:C	6:y:223:THR:O	2.61	0.44
3:z:126:ASP:CG	3:z:197:LYS:HZ2	2.13	0.44
3:z:281:ARG:O	3:z:284:THR:HG22	2.18	0.44
3:z:361:PHE:O	3:z:361:PHE:CG	2.71	0.44
3:z:368:MET:O	3:z:371:VAL:N	2.51	0.44
4:0:123:VAL:C	4:0:124:ILE:HG13	2.42	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
7:1:902:PRO:HD3	7:1:914:LEU:CD1	2.48	0.44
9:3:47:LEU:O	9:3:51:GLU:HG3	2.18	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
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
14:8:67:VAL:HG21	16:AA:92:VAL:CG1	2.47	0.44
15:9:78:SER:C	15:9:80:THR:N	2.75	0.44
15:9:237:HIS:CE1	15:9:298:GLN:CD	2.94	0.44
16:AA:2:VAL:O	16:AA:44:ASN:ND2	2.35	0.44
16:AA:26:LEU:O	16:AA:29:GLN:HB2	2.18	0.44
16:AA:138:VAL:HG11	16:AA:156:PHE:HE2	1.83	0.44
18:AC:388:ASP:O	18:AC:391:LEU:N	2.49	0.44
18:AC:604:GLY:C	18:AC:606:VAL:N	2.75	0.44
1:I:118:ASP:C	1:I:120:HIS:H	2.24	0.44
2:H:87:LEU:O	2:H:91:GLN:HG2	2.17	0.44
2:H:261:PHE:CZ	2:H:306:LEU:CD1	2.92	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:60:VAL:HB	3:L:93:LYS:O	2.18	0.44
3:L:84:ARG:C	3:L:85:ARG:HG2	2.29	0.44
3:L:137:GLY:C	3:L:138:LEU:HG	2.42	0.44
4:M:376:SER:N	4:M:414:GLU:HG2	2.33	0.44
5:J:67:GLN:HG2	6:K:136:SER:OG	2.17	0.44
6:K:98:GLN:OE1	6:K:99:ASN:N	2.49	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:332:GLU:C	6:K:333:PHE:HD1	2.25	0.44
6:K:337:ASP:O	6:K:341:LYS:CE	2.65	0.44
8:O:306:GLU:O	8:O:307:VAL:C	2.60	0.44
9:P:47:LEU:O	9:P:51:GLU:HG3	2.18	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
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
22:E:96:LEU:HG	29:d:62:LYS:CD	2.48	0.44
23:F:85:ALA:HB2	23:F:139:VAL:HG21	2.00	0.44
24:G:170:THR:HG21	4:0:380:ASN:HD22	1.82	0.44
26:o:91:ARG:NH1	32:u:1:THR:OG1	2.51	0.44
27:p:186:LEU:HD13	27:p:189:TYR:HD1	1.83	0.44
2:v:95:VAL:CG2	1:w:131:HIS:HB3	2.47	0.44
2:v:102:ILE:CD1	2:v:120:LYS:CG	2.91	0.44
2:v:206:ILE:O	2:v:207:GLU:CG	2.66	0.44
2:v:206:ILE:C	2:v:207:GLU:HG3	2.43	0.44
1:w:120:HIS:CD2	1:w:120:HIS:O	2.70	0.44
1:w:163:LEU:HG	1:w:164:MET:H	1.82	0.44
1:w:204:PRO:C	1:w:208:PRO:HD3	2.43	0.44
1:w:365:PHE:CE2	1:w:383:LEU:HB3	2.53	0.44
5:x:33:LEU:O	5:x:36:ASN:HB2	2.18	0.44
6:y:70:LYS:HE2	14:8:182:THR:CG2	2.48	0.44
6:y:79:VAL:O	6:y:79:VAL:HG12	2.18	0.44
6:y:171:ASP:O	6:y:175:GLN:HB3	2.17	0.44
6:y:337:ASP:O	6:y:341:LYS:CE	2.65	0.44
3:z:97:ARG:NH2	3:z:114:GLU:N	2.66	0.44
3:z:178:THR:CB	3:z:301:ILE:O	2.65	0.44
3:z:270:LEU:HA	3:z:270:LEU:HD23	1.68	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:0:225:MET:HG3	4:0:354:PHE:CZ	2.52	0.44
4:0:249:LEU:CD2	4:0:283:ILE:CD1	2.87	0.44
4:0:369:HIS:HD2	4:0:397:LYS:HG3	1.83	0.44
4:0:410:ARG:C	4:0:412:ALA:N	2.76	0.44
7:1:677:ASN:C	7:1:684:ARG:HH21	2.26	0.44
9:3:48:LEU:CD2	9:3:90:LEU:CG	2.93	0.44
9:3:449:GLU:OE1	14:8:211:TYR:CZ	2.71	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
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
13:7:215:LEU:C	13:7:217:ALA:N	2.74	0.44
14:8:120:VAL:HG12	14:8:121:LEU:N	2.32	0.44
16:AA:90:ILE:O	16:AA:94:HIS:N	2.44	0.44
16:AA:186:SER:C	16:AA:188:ILE:H	2.26	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
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
2:H:110:LYS:HG2	4:M:86:LEU:HD22	1.99	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
3:L:368:MET:O	3:L:369:LYS:C	2.59	0.44
4:M:82:VAL:O	4:M:161:LEU:HD11	2.18	0.44
4:M:96:LEU:HD23	4:M:122:ALA:HB2	1.99	0.44
4:M:249:LEU:HD23	4:M:283:ILE:HD11	1.95	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
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
7:N:536:ALA:HB1	7:N:578:LEU:HD21	2.00	0.44
8:O:254:ALA:C	8:O:256:GLY:N	2.75	0.44
8:O:371:ALA:CB	13:T:340:ILE:HG23	2.26	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
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
16:W:186:SER:C	16:W:188:ILE:H	2.26	0.44
18:Z:246:SER:O	18:Z:249:LEU:N	2.44	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
28:c:66:ARG:O	28:c:69:PHE:HB3	2.18	0.44
22:k:96:LEU:HD21	29:r:58:GLU:HB3	1.99	0.44
2:v:202:VAL:O	2:v:203:ASN:C	2.61	0.44
2:v:324:PRO:HD2	2:v:432:TYR:CE1	2.51	0.44
1:w:357:ASP:CG	1:w:358:GLU:N	2.75	0.44
5:x:67:GLN:HG2	6:y:136:SER:OG	2.17	0.44
5:x:141:GLU:HG3	5:x:213:ARG:HB3	1.99	0.44
6:y:393:ILE:CG2	6:y:394:VAL:N	2.81	0.44
3:z:185:ARG:CG	4:0:320:PHE:CZ	3.00	0.44
3:z:357:ALA:O	3:z:358:ASP:CB	2.66	0.44
4:0:188:ILE:CG2	4:0:189:GLY:N	2.71	0.44
4:0:236:LEU:HD12	4:0:354: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
9:3:387:ASP:CG	9:3:388:GLU:H	2.26	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
11:5:270:VAL:O	11:5:271:PHE:C	2.60	0.44
13:7:218:LYS:O	13:7:220:ILE:N	2.45	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
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
1:I:271:PHE:HB3	1:I:315:GLN:CD	2.43	0.43
2:H:103:ASN:C	2:H:103:ASN:HD22	2.25	0.43
2:H:161:VAL:HG21	2:H:259:GLU:CG	2.44	0.43
3:L:80:VAL:HG23	6:K:89:ILE:HG12	2.00	0.43
3:L:260:LEU:H	3:L:260:LEU:HG	1.61	0.43
3:L:361:PHE:O	3:L:361:PHE:CG	2.71	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
5:J:36:ASN:C	5:J:38:LYS:N	2.74	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
5:J:273:MET:HE2	5:J:273:MET:HB3	1.78	0.43
6:K:130:VAL:C	6:K:143:LEU:HD22	2.43	0.43
6:K:368:ASP:O	6:K:369:LYS:CB	2.65	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
10:Q:333:GLN:O	10:Q:334:ASN:C	2.61	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
14:U:201:LEU:HD12	15:V:225:TRP:HH2	1.82	0.43
15:V:142:ALA:O	15:V:159:ALA:HA	2.18	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
21:D:42:GLY:HA2	21:D:145:PHE:CE1	2.52	0.43
24:G:166:GLN:NE2	4:0:383:GLU:CA	2.81	0.43
27:b:11:GLY:HA2	27:b:108:PRO:HB3	2.01	0.43
27:b:75:ARG:HA	27:b:104:ASP:OD1	2.18	0.43
20:i:48:GLU:HG3	20:i:198:PHE:CE1	2.53	0.43
20:i:75:TYR:HB3	20:i:82:TYR:CD1	2.53	0.43
20:i:94:GLN:HG3	27:p:65:LEU:HD13	2.00	0.43
23:l:20:ARG:HD2	23:l:25:GLU:HG3	1.99	0.43
27:p:73:LEU:HD12	27:p:73:LEU:HA	1.84	0.43
2:v:83:ASP:O	2:v:84:LYS:C	2.60	0.43
2:v:103:ASN:C	2:v:103:ASN:HD22	2.25	0.43
2:v:200:ARG:O	2:v:202:VAL:N	2.51	0.43
2:v:285:PHE:N	2:v:285:PHE:CD1	2.85	0.43
1:w:168:ASP:OD2	1:w:170:LEU:HB2	2.17	0.43
5:x:46:GLN:HG2	6:y:61:ILE:HG22	1.98	0.43
5:x:154:LEU:HD22	5:x:157:GLN:HG3	2.00	0.43
5:x:169:VAL:O	5:x:170:LYS:C	2.60	0.43
6:y:319:PRO:C	6:y:321:LEU:N	2.74	0.43
3:z:99:ALA:HB3	3:z:109:ARG:N	2.32	0.43
3:z:122:MET:HE2	3:z:218:MET:CG	2.37	0.43
3:z:235:ILE:C	3:z:237:ALA:N	2.73	0.43
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:353:ASP:O	9:3:356:ASN:N	2.51	0.43
9:3:432:LEU:CD2	15:9:309:PHE:CD2	2.92	0.43
10:4:55:SER:HA	10:4:58:ALA:CB	2.48	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
12:6:169:LEU:CD1	12:6:206:VAL:CG2	2.79	0.43
12:6:188:SER:O	12:6:192:MET:N	2.38	0.43
14:8:101:LEU:H	14:8:101:LEU:HG	1.52	0.43
14:8:223:ASN:O	14:8:224:HIS:C	2.60	0.43
16:AA:97:LEU:HB3	16:AA:107:MET:CG	2.48	0.43
16:AA:120:ASN:CG	16:AA:123:ASP:HB3	2.43	0.43
1:I:214:MET:HE2	2:H:397:ILE:HD11	2.01	0.43
1:I:271:PHE:CE1	1:I:316:LEU:HD12	2.53	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
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
3:L:121:ASN:C	3:L:125:GLU:HB3	2.44	0.43
3:L:281:ARG:O	3:L:281:ARG:CG	2.67	0.43
4:M:207:ASN:O	4:M:208:HIS:CG	2.71	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
7:N:408:LEU:O	7:N:412:HIS:HD2	2.01	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
10:Q:337:ARG:CG	10:Q:340:GLU:CD	2.92	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: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
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
19:h:25:VAL:HG12	19:h:29:PHE:CE1	2.54	0.43
19:h:153:LYS:O	19:h:160:TYR:HA	2.18	0.43
19:h:201:CYS:O	19:h:205:VAL:HB	2.18	0.43
21:j:72:MET:HE3	21:j:72:MET:HB2	1.72	0.43
25:n:186:CYS:O	25:n:190:VAL:HG23	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:t:6:VAL:HG12	32:u:128:LEU:HD13	2.00	0.43
32:u:192:VAL:HG12	32:u:197:VAL:HG22	2.00	0.43
1:w:175:LYS:HE3	1:w:277:HIS:CG	2.53	0.43
1:w:181:GLN:O	1:w:241:ASN:CG	2.61	0.43
1:w:271:PHE:CE1	1:w:316:LEU:HD12	2.53	0.43
5:x:41:ASN:O	5:x:45:LEU:N	2.50	0.43
5:x:151:ILE:HG13	5:x:198:LEU:CD2	2.42	0.43
5:x:154:LEU:HD21	5:x:317:PHE:HD2	1.77	0.43
6:y:89:ILE:CG1	3:z:80:VAL:HG23	2.48	0.43
3:z:175:PRO:O	3:z:177:GLY:N	2.51	0.43
3:z:309:ARG:NE	3:z:335:SER:O	2.51	0.43
4:0:82:VAL:O	4:0:161:LEU:HD11	2.18	0.43
4:0:418:GLU:O	4:0:422:GLU:HG3	2.17	0.43
7:1:233:LEU:CA	7:1:236:LEU:HB3	2.47	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
11:5:187:TYR:O	11:5:188:CYS:C	2.61	0.43
11:5:292:TYR:HD1	11:5:293:ARG:N	2.16	0.43
14:8:25:ARG:NH2	15:9:70:ILE:HG21	2.30	0.43
14:8:201:LEU:HD12	15:9:225:TRP:HH2	1.82	0.43
15:9:142:ALA:O	15:9:159:ALA:HA	2.18	0.43
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
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
2:H:265:ARG:C	2:H:267:LYS:N	2.76	0.43
2:H:306:LEU:O	2:H:307:ASP:HB2	2.17	0.43
3:L:264:MET:CE	3:L:277:MET:HE2	2.46	0.43
3:L:309:ARG:NE	3:L:335:SER:O	2.51	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
5:J:248:MET:HE1	5:J:291:VAL:HG21	2.00	0.43
6:K:418:LYS:HB2	20:i:31:GLY:HA2	2.00	0.43
7:N:429:LYS:C	7:N:431:THR:H	2.25	0.43
7:N:763:VAL:O	7:N:767:THR:N	2.50	0.43
9:P:301:LYS:CG	9:P:324:TYR:HD1	2.27	0.43
10:Q:295:LYS:C	10:Q:297:ARG:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:27:SER:C	11:R:28:LEU:O	2.55	0.43
11:R:120:ALA:C	11:R:124:PHE:CD2	2.94	0.43
12:S:221:LEU:C	12:S:223:LYS:N	2.76	0.43
14:U:223:ASN:O	14:U:224:HIS:C	2.60	0.43
16:W:8:VAL:N	16:W:50:GLY:O	2.35	0.43
16:W:138:VAL:HG11	16:W:156:PHE:HE2	1.83	0.43
18:Z:604:GLY:C	18:Z:606:VAL:H	2.25	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
20:C:197:SER:O	20:C:199:GLU:N	2.51	0.43
24:G:140:MET:SD	32:g:80:GLY:HA3	2.58	0.43
27:b:63:LEU:HD23	27:b:63:LEU:HA	1.76	0.43
32:g:192:VAL:HG12	32:g:197:VAL:HG22	2.00	0.43
2:v:193:THR:OG1	2:v:194:PRO:CD	2.67	0.43
1:w:135:ILE:HG12	1:w:136:LEU:O	2.19	0.43
1:w:196:GLU:HB3	1:w:351:ILE:CD1	2.49	0.43
1:w:271:PHE:HB3	1:w:315:GLN:CD	2.43	0.43
1:w:287:ILE:HG21	1:w:329:MET:HE3	1.99	0.43
5:x:111:ASN:OD1	5:x:111:ASN:N	2.51	0.43
5:x:248:MET:SD	5:x:273:MET:HB2	2.58	0.43
6:y:116:LEU:N	6:y:119:ILE:HD11	2.31	0.43
6:y:236:VAL:CG1	6:y:288:ILE:CD1	2.94	0.43
6:y:289:LEU:HD23	6:y:289:LEU:HA	1.87	0.43
3:z:188:ALA:HA	3:z:195:PHE:CE2	2.54	0.43
4:0:398:ALA:HB3	4:0:427:VAL:CG1	2.48	0.43
4:0:423:GLY:C	4:0:427:VAL:HG23	2.43	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
11:5:256:VAL:CG1	11:5:257:ARG:N	2.79	0.43
12:6:217:VAL:O	12:6:218:TYR:O	2.36	0.43
14:8:157:HIS:ND1	14:8:157:HIS:C	2.77	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
1:I:181:GLN:O	1:I:241:ASN:CG	2.61	0.43
1:I:200:SER:CB	1:I:219:PRO:CG	2.64	0.43
1:I:285:ASP:CG	1:I:330:ALA:HB3	2.42	0.43
2:H:193:THR:OG1	2:H:194:PRO:CD	2.67	0.43
2:H:208:PRO:HG2	2:H:316:LYS:HZ3	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:328:ASP:OD1	2:H:329:PRO:HD2	2.18	0.43
3:L:83:CYS:SG	3:L:89:LYS:HG2	2.59	0.43
3:L:171:LEU:HD13	3:L:277:MET:C	2.43	0.43
4:M:137:ILE:HG22	4:M:137:ILE:O	2.17	0.43
4:M:360:GLU:O	4:M:364:ARG:HB2	2.19	0.43
5:J:111:ASN:OD1	5:J:111:ASN:N	2.51	0.43
5:J:189:TYR:CD1	5:J:189:TYR:O	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
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:343:LEU:C	8:O:343:LEU:CD1	2.88	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:323:ASP:CG	9:P:324:TYR:N	2.76	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
11:R:120:ALA:C	11:R:124:PHE:CE2	2.97	0.43
12:S:196:SER:C	12:S:198:GLN:H	2.26	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
19:B:141:ILE:HD12	19:B:220:VAL:HG12	2.00	0.43
30:e:158:ARG:NH1	29:r:145:ARG:HD2	2.33	0.43
32:g:25:ASP:HA	32:g:187:PHE:HA	2.01	0.43
28:q:49:LEU:C	28:q:50:TYR:HD1	2.27	0.43
28:q:107:PRO:HG2	28:q:124:LEU:HB2	2.00	0.43
31:t:166:LEU:HD23	31:t:166:LEU:N	2.33	0.43
2:v:328:ASP:OD1	2:v:329:PRO:HD2	2.18	0.43
1:w:218:PRO:HB2	1:w:326:LYS:NZ	2.33	0.43
5:x:104:ASP:HB2	5:x:107:ASP:OD2	2.18	0.43
5:x:187:LEU:HB2	5:x:311:ILE:HG23	2.00	0.43
5:x:189:TYR:CD1	5:x:189:TYR:O	2.72	0.43
3:z:146:ARG:NH1	3:z:146:ARG:HG2	2.32	0.43
3:z:241:ARG:O	3:z:242:ARG:CB	2.65	0.43
3:z:334:LEU:CD2	3:z:372:ARG:HH11	2.32	0.43
4:0:342:LEU:O	4:0:347:ARG:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:1:84:ALA:C	7:1:86:ASP:H	2.27	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
9:3:323:ASP:CG	9:3:324:TYR:N	2.76	0.43
9:3:401:THR:C	9:3:402:ILE:CG2	2.89	0.43
10:4:333:GLN:O	10:4:334:ASN:C	2.61	0.43
11:5:155:ASP:C	11:5:157:ILE:N	2.75	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
12:6:351: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
1:I:152:LEU:HD23	1:I:159:VAL:HA	2.00	0.43
1:I:249:ARG:HH12	5:J:279:GLN:CG	2.32	0.43
1:I:251:VAL:HG12	1:I:253:SER:N	2.33	0.43
1:I:291:GLY:C	1:I:293:LYS:N	2.73	0.43
2:H:93:LEU:HB3	2:H:94:GLN:H	1.60	0.43
2:H:257:VAL:O	2:H:260:LEU:HB2	2.17	0.43
2:H:348:LEU:CG	23:l:175:GLU:OE2	2.67	0.43
2:H:423:PHE:CD1	2:H:423:PHE:N	2.86	0.43
3:L:199:VAL:CG1	4:M:315:ASN:HD21	2.12	0.43
3:L:242:ARG:HA	3:L:254:GLN:HE22	1.83	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
4:M:410:ARG:C	4:M:412:ALA:N	2.76	0.43
5:J:286:THR:HG22	5:J:287:LYS:H	1.84	0.43
5:J:288:ASN:C	5:J:289:ILE:HG12	2.44	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
6:K:345:PHE:CE1	6:K:360:LEU:HD21	2.54	0.43
6:K:378:ILE:HG13	6:K:406:VAL:CG2	2.25	0.43
6:K:388:ARG:HG3	6:K:388:ARG:NH1	2.32	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: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
10:Q:179:ALA:C	10:Q:181:SER:N	2.75	0.43
10:Q:205:LYS:O	10:Q:206:LEU:C	2.60	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:21:GLN:CG	11:R:286:TRP:HZ3	2.19	0.43
11:R:210:SER:C	11:R:212:GLU:N	2.75	0.43
14:U:173:GLU:OE2	14:U:173:GLU:HA	2.17	0.43
14:U:256:GLN:CD	15:V:299:CYS:SG	3.01	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:26:LEU:O	16:W:29:GLN:HB2	2.18	0.43
16:W:144:GLY:C	16:W:147:GLU:HA	2.44	0.43
16:W:157:VAL:HG11	16:W:170:LEU:CB	2.43	0.43
21:D:174:MET:HE3	21:D:174:MET:HB2	1.75	0.43
26:a:25:TYR:CZ	27:b:132:LEU:CD2	3.02	0.43
28:c:49:LEU:C	28:c:50:TYR:HD1	2.27	0.43
29:d:85:ARG:HG3	29:d:124:LEU:HB2	2.01	0.43
29:d:155:ARG:HD3	29:d:155:ARG:HA	1.86	0.43
24:m:159:MET:HE3	24:m:169:ARG:NH2	2.34	0.43
27:p:210:ALA:HB3	28:q:201:LYS:HB3	2.00	0.43
30:s:40:TYR:CZ	30:s:73:ARG:HG2	2.54	0.43
2:v:372:LEU:HD22	2:v:372:LEU:HA	1.74	0.43
1:w:112:LEU:HD23	1:w:112:LEU:HA	1.82	0.43
1:w:249:ARG:HH12	5:x:279:GLN:CD	2.27	0.43
1:w:427:LEU:O	1:w:428:TYR:C	2.61	0.43
5:x:116:LEU:HD12	5:x:122:THR:C	2.43	0.43
5:x:137:LEU:CB	5:x:224:ILE:HG12	2.47	0.43
5:x:288:ASN:C	5:x:289:ILE:HG12	2.44	0.43
6:y:47:LEU:O	6:y:50:GLU:HB2	2.19	0.43
6:y:226:ALA:HB3	6:y:257:ASN:HD22	1.62	0.43
6:y:372:GLY:HA3	33:y:501:ADP:H8	1.75	0.43
3:z:194:ASN:CB	3:z:228:CYS:SG	3.07	0.43
3:z:252:GLU:OE1	4:0:261:ILE:HG21	2.18	0.43
3:z:312:ILE:HA	3:z:315:ILE:HD12	1.99	0.43
4:0:183:GLU:OE1	4:0:235:LEU:HD22	2.19	0.43
4:0:288:LEU:CD2	4:0:342:LEU:CD1	2.88	0.43
4:0:398:ALA:HB3	4:0:427:VAL:HG13	2.00	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
10:4:200:ILE:C	10:4:200:ILE:CD1	2.87	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:8:57:PRO:HG3	15:9:102:THR:HG22	1.99	0.43
14:8:256:GLN:CG	15:9:295:ASN:ND2	2.80	0.43
14:8:275:LEU:C	14:8:275:LEU:CD1	2.92	0.43
15:9:257:LYS:O	15:9:261:GLU:HB2	2.19	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
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
1:I:315:GLN:C	1:I:317:ASP:H	2.25	0.43
1:I:342:ILE:C	1:I:343:ARG:O	2.61	0.43
2:H:91:GLN:C	2:H:93:LEU:N	2.76	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
3:L:34:LYS:O	3:L:35:GLU:C	2.61	0.43
3:L:80:VAL:HG23	6:K:89:ILE:CG1	2.48	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
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
5:J:188:LEU:HD22	5:J:317:PHE:CE1	2.54	0.43
5:J:248:MET:CE	5:J:291:VAL:CG2	2.96	0.43
6:K:53:PHE:HD1	6:K:53:PHE:HA	1.78	0.43
6:K:131:ALA:O	6:K:140:VAL:N	2.47	0.43
6:K:406:VAL:C	6:K:408:LYS:HG2	2.42	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
9:P:438:LEU:HD12	14:U:236:LEU:HD12	2.00	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:28:LEU:C	11:R:30:GLU:N	2.77	0.43
11:R:48:ASN:O	11:R:49:ASN:C	2.62	0.43
11:R:130:LYS:O	11:R:132:VAL:CG2	2.66	0.43
11:R:260:LEU:CD2	11:R:260:LEU:C	2.90	0.43
12:S:494:MET:CA	14:U:275:LEU:CD2	2.97	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
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
16:W:157:VAL:O	16:W:161:ASN:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:Z:333:LEU:CB	18:Z:335:ARG:H	2.31	0.43
19:B:175:SER:OG	19:B:201:CYS:SG	2.71	0.43
20:C:28:VAL:C	20:C:30:GLY:H	2.26	0.43
30:e:24:ALA:HB1	28:q:178:ASP:OD1	2.19	0.43
2:v:208:PRO:HG2	2:v:316:LYS:HZ2	1.82	0.43
2:v:391:GLU:OE1	2:v:391:GLU:HA	2.18	0.43
2:v:397:ILE:HD11	1:w:214:MET:HE2	2.01	0.43
1:w:106:PRO:O	1:w:154:HIS:NE2	2.49	0.43
1:w:193:GLN:HG3	1:w:351:ILE:CG2	2.48	0.43
1:w:251:VAL:HG12	1:w:253:SER:N	2.33	0.43
1:w:408:ARG:C	1:w:410:ARG:N	2.73	0.43
5:x:36:ASN:C	5:x:38:LYS:N	2.74	0.43
5:x:112:CYS:HB2	5:x:130:LYS:HG2	2.00	0.43
5:x:373:GLU:O	5:x:373:GLU:HG3	2.19	0.43
3:z:323:HIS:C	3:z:325:GLU:N	2.75	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
8:2:36:GLN:O	8:2:40:GLN:CG	2.67	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
9:3:73:MET:O	9:3:76:GLU:CG	2.66	0.43
9:3:247:TYR:HA	9:3:250:ILE:HG22	2.01	0.43
10:4:205:LYS:O	10:4:206:LEU:C	2.60	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
11:5:366:TYR:HE1	11:5:370:ILE:CG1	2.30	0.43
12:6:221:LEU:C	12:6:223:LYS:N	2.76	0.43
13:7:325:PRO:C	13:7:327:ASP:N	2.75	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
15:9:96:LEU:HD22	15:9:100:LYS:HZ1	1.82	0.43
15:9:239:LYS:O	15:9:243:SER:N	2.39	0.43
16:AA:64:LEU:CG	16:AA:101:GLN:CG	2.96	0.43
1:I:140:ASP:OD1	1:I:141:LYS:HD3	2.18	0.43
1:I:182:GLU:C	1:I:183:THR:OG1	2.62	0.43
2:H:200:ARG:O	2:H:202:VAL:N	2.51	0.43
4:M:359:GLU:O	4:M:362:ARG:CB	2.66	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
6:K:151:ILE:CG2	6:K:152:MET:H	2.14	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:212:LYS:CA	6:K:333:PHE:HE2	2.22	0.43
7:N:357:LYS:HZ2	7:N:385:PHE:CB	2.28	0.43
7:N:397:THR:O	7:N:398:ASN:C	2.61	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:387:ASP:CG	9:P:388:GLU:H	2.26	0.43
9:P:387:ASP:CG	9:P:388:GLU:N	2.77	0.43
9:P:417:ARG:CG	9:P:418:PRO:HD2	2.47	0.43
11:R:155:ASP:C	11:R:157:ILE:N	2.75	0.43
12:S:417:ILE:HG22	12:S:418:SER:O	2.19	0.43
14:U:17:LEU:HD23	14:U:17:LEU:HA	1.81	0.43
14:U:259:VAL:CG1	15:V:291:LEU:HD22	2.48	0.43
16:W:2:VAL:C	16:W:47:ASN:HD21	2.23	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
30:e:166:ARG:HH22	29:r:140:LEU:HD22	1.80	0.43
19:h:38:THR:N	19:h:53:GLN:NE2	2.67	0.43
22:k:155:ALA:H	23:l:63:SER:CB	2.31	0.43
1:w:415:THR:HB	1:w:416:ASN:H	1.55	0.43
6:y:257:ASN:O	6:y:258:ALA:CB	2.67	0.43
6:y:273:LYS:O	6:y:275:PHE:CD2	2.72	0.43
7:1:168:LEU:HD21	7:1:204:ILE:CB	2.48	0.43
9:3:387:ASP:CG	9:3:388:GLU:N	2.77	0.43
10:4:8:GLU:O	10:4:12:ALA:N	2.42	0.43
10:4:216:ILE:CG2	10:4:318:ILE:HD13	2.48	0.43
11:5:66:ASP:C	11:5:68:ASP:N	2.75	0.43
11:5:228:MET:SD	11:5:260:LEU:HD23	2.59	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
18:AC:198:HIS:C	18:AC:200:ALA:N	2.76	0.43
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
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
3:L:254:GLN:O	3:L:258:MET:N	2.47	0.43
4:M:168:TYR:OH	4:M:274:LEU:HD23	2.17	0.43
4:M:192:ASP:HA	4:M:195:ILE:HB	2.01	0.43
4:M:398:ALA:HB3	4:M:427:VAL:CG1	2.48	0.43
4:M:436:GLN:NE2	24:m:53:GLN:OE1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:125:LYS:HG2	5:J:126:ILE:N	2.34	0.43
6:K:51:LEU:O	6:K:54:LEU:CD2	2.67	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
7:N:701:ILE:HA	7:N:704:PRO:HG3	2.01	0.43
8:O:169:HIS:O	8:O:170:ALA:C	2.62	0.43
8:O:248:PHE:O	8:O:249:GLN:C	2.61	0.43
9:P:153:LYS:HE2	9:P:162:ALA:HB1	2.01	0.43
10:Q:277:LEU:C	10:Q:279:TYR:H	2.26	0.43
11:R:30:GLU:HA	11:R:31:HIS:C	2.43	0.43
11:R:48:ASN:O	11:R:50:MET:N	2.52	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
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
13:T:322:GLN:C	13:T:324:LYS:N	2.75	0.43
15:V:251:LEU:O	15:V:252:ALA:C	2.62	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
16:W:97:LEU:HB3	16:W:107:MET:CG	2.48	0.43
18:Z:792:ALA:HB1	18:Z:824:ALA:CB	2.45	0.43
19:B:107:TYR:O	19:B:107:TYR:CD1	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
24:G:96:ARG:HD2	31:f:73:LYS:NZ	2.33	0.43
26:a:3:ILE:HD13	26:a:46:SER:HB3	1.99	0.43
27:b:195:LYS:HE3	31:t:184:GLU:HG3	2.01	0.43
28:c:153:LEU:HB3	28:c:166:THR:HG23	1.99	0.43
21:j:42:GLY:HA2	21:j:145:PHE:CE1	2.54	0.43
23:l:49:ALA:HB2	23:l:217:LEU:HD23	2.00	0.43
23:l:85:ALA:HB2	23:l:139:VAL:HG21	2.00	0.43
2:v:109:PRO:O	2:v:110:LYS:O	2.37	0.43
1:w:118:ASP:OD1	1:w:120:HIS:O	2.36	0.43
1:w:160:ILE:CG2	1:w:160:ILE:O	2.66	0.43
1:w:180:PRO:HG3	1:w:240:ALA:CA	2.40	0.43
1:w:182:GLU:C	1:w:183:THR:OG1	2.62	0.43
1:w:207:HIS:O	1:w:210:TYR:HE1	2.00	0.43
5:x:223:PHE:CZ	6:y:290:LEU:HD13	2.54	0.43
5:x:248:MET:CE	5:x:291:VAL:CG2	2.96	0.43
5:x:286:THR:HG22	5:x:287:LYS:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:148:ASP:O	6:y:249:ASP:CB	2.66	0.43
6:y:381:GLU:OE2	3:z:297:ARG:NH1	2.51	0.43
4:0:231:THR:C	33:0:501:ADP:H8	2.26	0.43
4:0:360:GLU:O	4:0:364:ARG:HB2	2.19	0.43
7:1:165:LYS:O	7:1:166:THR:C	2.62	0.43
7:1:185:MET:HA	7:1:194:ARG:HD2	2.01	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
10:4:337:ARG:CG	10:4:340:GLU:CD	2.92	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:144:GLY:C	16:AA:147:GLU:HA	2.44	0.43
16:AA:157:VAL:O	16:AA:161:ASN:HB2	2.19	0.43
18:AC:604:GLY:C	18:AC:606:VAL:H	2.25	0.43
18:AC:696:LEU:O	18:AC:700:SER:CB	2.67	0.43
1:I:314:ASN:HD22	2:H:241:ILE:HD13	1.84	0.43
2:H:139:ARG:O	2:H:153:LEU:HB2	2.19	0.43
3:L:31:GLU:C	3:L:33:LEU:N	2.76	0.43
4:M:359:GLU:O	4:M:360:GLU:C	2.61	0.43
6:K:51:LEU:HA	6:K:51:LEU:HD22	1.86	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
7:N:11:LEU:HA	7:N:14:GLU:OE1	2.19	0.43
7:N:132:GLY:O	7:N:136:LYS:N	2.30	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:O	11:R:366:TYR:HD1	2.02	0.43
12:S:69:THR:CB	12:S:163:VAL:HG11	2.49	0.43
12:S:161:PRO:HA	12:S:164:GLU:HB2	2.00	0.43
14:U:237:LEU:HD23	14:U:237:LEU:HA	1.85	0.43
14:U:256:GLN:CG	15:V:295:ASN:ND2	2.80	0.43
18:Z:192:VAL:HA	18:Z:204:ALA:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
22:E:38:ARG:H	22:E:38:ARG:CZ	2.31	0.43
24:G:166:GLN:NE2	4:0:386:ARG:CB	2.60	0.43
26:a:86:MET:HE2	26:a:86:MET:HB3	1.87	0.43
19:h:89:SER:HA	25:n:117:MET:CE	2.49	0.43
19:h:94:ALA:HA	19:h:118:ILE:HD11	2.01	0.43
19:h:212:PRO:HB2	19:h:232:GLU:HG3	2.01	0.43
23:l:121:LEU:HD12	24:m:77:LEU:HD21	1.96	0.43
23:l:148:GLU:OE2	31:t:81:LYS:NZ	2.52	0.43
24:m:185:ASN:OD1	24:m:189:LYS:HE3	2.19	0.43
25:n:152:ASP:OD1	25:n:154:SER:OG	2.30	0.43
27:p:3:ILE:HD11	27:p:127:MET:HB2	2.01	0.43
1:w:257:GLN:NE2	1:w:266:LEU:HG	2.07	0.43
5:x:57:ARG:NH1	6:y:71:GLU:HG3	2.34	0.43
6:y:49:GLN:O	6:y:52:GLU:HB2	2.18	0.43
6:y:86:PRO:O	6:y:134:LYS:NZ	2.51	0.43
6:y:244:PRO:CB	6:y:291:GLU:CG	2.97	0.43
6:y:341:LYS:NZ	6:y:367:PRO:O	2.52	0.43
3:z:232:MET:O	3:z:278:ALA:CB	2.66	0.43
3:z:336:ASP:C	3:z:338:PHE:N	2.76	0.43
4:0:87:PRO:HG2	4:0:155:LYS:HE2	2.01	0.43
4:0:121:CYS:HB3	4:0:133:PHE:HE1	1.75	0.43
4:0:134:LEU:H	4:0:134:LEU:HG	1.57	0.43
4:0:191:LEU:HD23	4:0:191:LEU:HA	1.83	0.43
4:0:264:GLY:O	4:0:268:VAL:HG23	2.19	0.43
7:1:22:PHE:CG	13:7:121:LEU:HD21	2.51	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
8:2:371:ALA:CB	13:7:340:ILE:HG23	2.26	0.43
9:3:384:LEU:HD22	9:3:388:GLU:HB3	2.00	0.43
10:4:71:LYS:O	10:4:75:PRO:N	2.51	0.43
11:5:14:ASN:HB3	11:5:15:PRO:HA	2.00	0.43
11:5:108:ALA:CB	11:5:124:PHE:CE1	3.01	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
18:AC:734:SER:HA	18:AC:768:LEU:O	2.19	0.43
1:I:249:ARG:HH12	5:J:279:GLN:CD	2.27	0.43
2:H:238:ILE:HG22	2:H:240:VAL:HG23	2.00	0.43
3:L:141:GLN:NE2	3:L:301:ILE:HA	2.34	0.43
3:L:252:GLU:OE1	4:M:261:ILE:HG21	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:257:LEU:C	3:L:261:LEU:CD1	2.87	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
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
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
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
12:S:196:SER:C	12:S:198:GLN:N	2.75	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
20:C:94:GLN:OE1	27:b:61:SER:HA	2.19	0.43
20:i:44:VAL:CG2	20:i:183:LEU:HD23	2.48	0.43
20:i:204:GLU:CD	20:i:226:LYS:HE2	2.43	0.43
22:k:38:ARG:H	22:k:38:ARG:CZ	2.31	0.43
25:n:28:LYS:HE3	25:n:28:LYS:HB2	1.77	0.43
29:r:118:MET:HE2	29:r:118:MET:HB3	1.91	0.43
2:v:119:ALA:CB	4:0:127:SER:CB	2.86	0.43
2:v:229:VAL:C	2:v:231:ASN:N	2.76	0.43
2:v:241:ILE:HD13	1:w:314:ASN:HD22	1.84	0.43
2:v:313:GLY:C	2:v:315:ILE:CD1	2.89	0.43
2:v:345:LEU:CG	2:v:430:MET:HE3	2.48	0.43
1:w:152:LEU:HD23	1:w:159:VAL:HA	2.00	0.43
5:x:84:LYS:HA	5:x:98:ASP:HA	2.00	0.43
3:z:49:ALA:O	3:z:52:SER:CB	2.62	0.43
3:z:61:LEU:HG	3:z:72:LYS:H	1.84	0.43
3:z:221:TYR:O	3:z:225:HIS:N	2.41	0.43
3:z:237:ALA:C	3:z:239:GLY:N	2.75	0.43
3:z:317:ALA:O	3:z:320:ILE:HG13	2.19	0.43
4:0:123:VAL:HG12	4:0:124:ILE:N	2.34	0.43
4:0:137:ILE:HG22	4:0:137:ILE:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
12:6:187:ILE:HA	12:6:190:ASP:CG	2.44	0.43
13:7:256:TYR:O	13:7:259:PHE:HB2	2.19	0.43
14:8:263:ALA:CB	15:9:292:MET:SD	3.07	0.43
1:I:132:TYR:CZ	2:H:153:LEU:CD2	3.02	0.42
1:I:135:ILE:HG12	1:I:136:LEU:O	2.19	0.42
2:H:168:GLU:C	2:H:169:LYS:HG3	2.44	0.42
2:H:407:LYS:HA	2:H:410:LEU:HD12	2.01	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
4:M:435:LEU:CD1	23:l:20:ARG:HD3	2.49	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
6:K:222:HIS:C	6:K:223:THR:O	2.61	0.42
7:N:84:ALA:C	7:N:86:ASP:H	2.27	0.42
8:O:259:PRO:C	8:O:261:LEU:N	2.76	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:32:ARG:HA	11:R:33:GLY:C	2.43	0.42
11:R:228:MET:SD	11:R:260:LEU:HD23	2.59	0.42
20:C:73:LEU:CD2	20:C:135:ILE:HG12	2.49	0.42
20:C:183:LEU:HD21	20:C:211:ILE:HB	2.00	0.42
24:m:159:MET:HE3	24:m:169:ARG:HE	1.84	0.42
29:r:101:ASN:HB3	29:r:132:HIS:CD2	2.54	0.42
2:v:60:ASN:O	2:v:64:GLY:N	2.31	0.42
2:v:86:THR:O	2:v:89:SER:OG	2.37	0.42
2:v:168:GLU:C	2:v:169:LYS:HG3	2.44	0.42
2:v:201:PHE:CD1	2:v:201:PHE:N	2.82	0.42
1:w:118:ASP:HB2	1:w:120:HIS:CD2	2.53	0.42
5:x:149:GLU:CG	11:5:133:ALA:CB	2.90	0.42
5:x:157:GLN:O	5:x:158:ILE:C	2.62	0.42
5:x:188:LEU:HD22	5:x:317:PHE:CE1	2.54	0.42
5:x:274:LEU:HG	5:x:305:LEU:HD12	1.98	0.42
6:y:130:VAL:C	6:y:143:LEU:HD22	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:205:TYR:HE1	6:y:332:GLU:CG	2.32	0.42
6:y:212:LYS:HG2	6:y:333:PHE:CE2	2.53	0.42
3:z:60:VAL:HB	3:z:93:LYS:O	2.18	0.42
3:z:65:THR:N	3:z:68:LYS:HB2	2.34	0.42
4:0:376:SER:N	4:0:414: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
8:2:71:VAL:HA	16:AA:17:ARG:HH21	1.84	0.42
9:3:214:PHE:CE1	9:3:223:LYS:HB3	2.54	0.42
9:3:286:LEU:HD23	9:3:286:LEU:HA	1.78	0.42
10:4:89:VAL:O	10:4:89:VAL:HG12	2.19	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
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:OE1	11:5:280:GLN:HA	2.17	0.42
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
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:5:SER:CB	16:AA:100:ARG:HB2	2.49	0.42
16:AA:97:LEU:HD11	16:AA:108:ARG:O	2.19	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
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
4:M:185:TYR:CE2	4:M:243:GLN:HG2	2.54	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:O	6:K:91:GLN:NE2	2.53	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
7:N:360:VAL:CB	7:N:727:LYS:HZ3	2.32	0.42
7:N:604:HIS:CA	7:N:607:VAL:HB	2.47	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:R:317:GLY:O	11:R:321:GLU:HB3	2.19	0.42
14:U:37:GLY:HA2	14:U:56:VAL:CG2	2.47	0.42
14:U:275:LEU:HD13	14:U:279:LYS:HD2	2.01	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
18:Z:259:PHE:C	18:Z:261:ARG:HA	2.44	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
22:E:96:LEU:HG	29:d:62:LYS:HD3	2.01	0.42
26:a:124:SER:OG	26:o:200:ALA:HB1	2.18	0.42
21:j:130:PHE:O	21:j:152:PRO:HB3	2.19	0.42
24:m:140:MET:SD	32:u:80:GLY:HA3	2.58	0.42
28:q:153:LEU:HB3	28:q:166:THR:HG23	2.00	0.42
31:t:13:LEU:HD12	31:t:14:ALA:H	1.83	0.42
31:t:136:LYS:HA	31:t:146:GLN:NE2	2.34	0.42
32:u:186:ARG:HE	32:u:202:PRO:CB	2.20	0.42
2:v:110:LYS:HG2	4:0:86:LEU:HD22	1.99	0.42
2:v:112:ILE:HG23	2:v:122:VAL:HG22	2.01	0.42
2:v:166:VAL:HG11	2:v:237:PHE:O	2.16	0.42
2:v:323:ARG:C	2:v:325:ASP:H	2.27	0.42
2:v:347:ASP:O	2:v:351:ARG:CZ	2.65	0.42
2:v:407:LYS:HA	2:v:410:LEU:HD12	2.01	0.42
33:v:501:ADP:O3A	1:w:343:ARG:NH2	2.53	0.42
1:w:203:LEU:C	1:w:205:LEU:H	2.27	0.42
5:x:147:THR:HG22	5:x:150:MET:CE	2.45	0.42
5:x:209:CYS:SG	5:x:243:PRO:CB	3.00	0.42
6:y:160:PRO:HB3	6:y:217:LYS:CG	2.48	0.42
3:z:34:LYS:O	3:z:35:GLU:C	2.61	0.42
3:z:59:GLU:HA	3:z:97:ARG:HA	2.01	0.42
3:z:325:GLU:OE1	3:z:364:GLN:CB	2.65	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
9:3:78:LYS:HA	9:3:79:GLU:O	2.17	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:6:448:GLU:HB3	12:6:461:LYS:CB	2.49	0.42
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
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
2:H:210:LYS:HB3	2:H:312:ARG:HH11	1.84	0.42
2:H:384:GLU:O	2:H:387:SER:OG	2.32	0.42
3:L:56:ILE:N	3:L:100:LEU:O	2.52	0.42
3:L:336:ASP:C	3:L:338:PHE:N	2.76	0.42
3:L:346:VAL:HG23	3:L:374:VAL:HG11	2.01	0.42
3:L:368:MET:HE3	3:L:368:MET:HB2	1.92	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
4:M:433:ALA:C	4:M:435:LEU:H	2.27	0.42
5:J:89:VAL:HG12	5:J:90:HIS:N	2.35	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:325:ARG:O	5:J:326:LEU:C	2.62	0.42
7:N:69:TYR:OH	12:S:240:LEU:HG	2.20	0.42
7:N:457:ILE:O	7:N:460:TYR:HB3	2.19	0.42
11:R:253:LEU:O	11:R:254:PRO:HB3	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
18:Z:205:CYS:O	18:Z:208:LEU:N	2.52	0.42
18:Z:597:VAL:C	18:Z:599:ALA:N	2.77	0.42
29:d:101:ASN:HB3	29:d:132:HIS:CD2	2.55	0.42
29:d:168:GLN:NE2	29:d:175:LEU:O	2.40	0.42
19:h:138:MET:HB3	19:h:154:CYS:SG	2.59	0.42
20:i:72:GLY:HA3	20:i:217:PHE:CE1	2.55	0.42
20:i:87:HIS:HD1	20:i:87:HIS:C	2.27	0.42
23:l:103:TYR:OH	31:t:71:ARG:NH2	2.52	0.42
27:p:11:GLY:HA2	27:p:108:PRO:HB3	2.00	0.42
27:p:63:LEU:HD23	27:p:63:LEU:HA	1.77	0.42
27:p:114:TYR:CE2	27:p:127:MET:HE1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:q:59:ASP:OD2	29:r:93:ARG:NH2	2.51	0.42
2:v:210:LYS:HB3	2:v:312:ARG:HH11	1.84	0.42
2:v:333:ARG:HG2	2:v:334:PRO:N	2.30	0.42
2:v:423:PHE:CD1	2:v:423:PHE:N	2.86	0.42
1:w:204:PRO:O	1:w:208:PRO:HG3	2.19	0.42
1:w:240:ALA:O	1:w:243:THR:HG22	2.19	0.42
1:w:379:THR:C	1:w:381:ASP:H	2.27	0.42
5:x:232:ARG:HH11	5:x:232:ARG:CG	2.31	0.42
6:y:41:TYR:O	7:1:183:LEU:CD2	2.68	0.42
6:y:51:LEU:O	6:y:54:LEU:CD2	2.67	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
7:1:700:GLU:C	7:1:702:THR:H	2.27	0.42
8:2:183:VAL:HG12	8:2:186:LYS:CG	2.48	0.42
8:2:343:LEU:HD21	14:8:216:ALA:CB	2.48	0.42
9:3:351:TRP:HA	9:3:351:TRP:CE3	2.54	0.42
10:4:74:ARG:HA	10:4:77:LEU:CB	2.50	0.42
10:4:129:LEU:HD23	10:4:129:LEU:O	2.19	0.42
11:5:48:ASN:O	11:5:49:ASN:C	2.62	0.42
11:5:288:PHE:O	11:5:290:PRO:HD2	2.19	0.42
12:6:196:SER:C	12:6:198:GLN:H	2.26	0.42
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
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
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
2:H:200:ARG:C	2:H:202:VAL:N	2.75	0.42
2:H:391:GLU:OE1	2:H:391:GLU:HA	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
5:J:84:LYS:HA	5:J:98:ASP:HA	2.00	0.42
5:J:157:GLN:O	5:J:158:ILE:C	2.62	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
6:K:79:VAL:O	6:K:79:VAL:HG12	2.18	0.42
6:K:124:LEU:HD12	6:K:142:VAL:HG21	2.01	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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: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
10:Q:239:TYR:CE2	10:Q:246:LYS:CB	3.02	0.42
11:R:267:ARG:CG	11:R:270:VAL:HG11	2.48	0.42
12:S:187:ILE:HA	12:S:190:ASP:CG	2.44	0.42
12:S:487:HIS:CE1	12:S:491:VAL:HG21	2.54	0.42
14:U:127:LYS:O	14:U:128:PRO:HB2	2.19	0.42
14:U:131:LEU:CD1	14:U:199:LYS:HD2	2.49	0.42
15:V:78:SER:C	15:V:80:THR:N	2.75	0.42
15:V:262:GLU:C	15:V:264:LYS:N	2.77	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
19:B:193:GLN:O	19:B:197:THR:OG1	2.34	0.42
20:C:48:GLU:CD	20:C:198:PHE:CD2	2.97	0.42
21:D:140:ASP:OD2	21:D:146:GLN:NE2	2.42	0.42
22:E:43:LEU:HD23	22:E:43:LEU:N	2.35	0.42
31:f:136:LYS:HA	31:f:146:GLN:NE2	2.33	0.42
22:k:66:ASP:OD1	22:k:67:ASP:N	2.43	0.42
29:r:30:ASP:OD1	29:r:30:ASP:N	2.53	0.42
29:r:85:ARG:HG3	29:r:124:LEU:HB2	2.01	0.42
2:v:168:GLU:O	2:v:169:LYS:HG3	2.20	0.42
2:v:205:GLY:C	2:v:206:ILE:HG23	2.44	0.42
2:v:265:ARG:C	2:v:267:LYS:N	2.76	0.42
2:v:285:PHE:O	2:v:286:ASP:CB	2.67	0.42
2:v:309:PHE:CZ	4:0:248:PHE:CZ	3.08	0.42
1:w:329:MET:HG3	1:w:347:ILE:HD11	2.01	0.42
1:w:386:ALA:HB1	1:w:423:LYS:HE3	1.98	0.42
5:x:48:GLN:CD	12:6:501:TYR:CB	2.93	0.42
5:x:155:ASP:HA	5:x:158:ILE:HD12	2.00	0.42
5:x:248:MET:CE	5:x:291:VAL:HB	2.49	0.42
6:y:244:PRO:HB3	6:y:291:GLU:CG	2.49	0.42
3:z:346:VAL:HG23	3:z:374:VAL:HG11	2.01	0.42
4:0:236:LEU:HD13	4:0:354:PHE:CZ	2.53	0.42
7:1:377:HIS:O	7:1:380:THR:N	2.50	0.42
8:2:259:PRO:C	8:2:261:LEU:N	2.76	0.42
9:3:217:GLU:HA	9:3:220:GLU:OE1	2.19	0.42
9:3:375:MET:O	9:3:376:LYS:C	2.62	0.42
9:3:438:LEU:CD1	14:8:236:LEU:HD12	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:5:58:CYS:SG	11:5:59:LYS:N	2.93	0.42
11:5:237:ARG:HA	11:5:241:ILE:HB	2.02	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
1:I:120:HIS:HB2	1:I:133:VAL:C	2.45	0.42
1:I:170:LEU:CD1	1:I:269:GLU:HG3	2.49	0.42
1:I:190:LEU:HD23	1:I:190:LEU:HA	1.84	0.42
1:I:234:LEU:HD12	33:I:501:ADP:C4	2.50	0.42
1:I:288:ASP:C	1:I:292:THR:HG22	2.42	0.42
1:I:352:GLU:C	1:I:353:PHE:HD1	2.28	0.42
2:H:121:PHE:HB3	2:H:123:VAL:CG1	2.50	0.42
2:H:372:LEU:HD22	2:H:372:LEU:HA	1.74	0.42
3:L:323:HIS:C	3:L:325:GLU:N	2.75	0.42
4:M:344:ARG:O	4:M:345:SER:HB3	2.19	0.42
5:J:42:LEU:HA	5:J:45:LEU:HD12	2.00	0.42
5:J:154:LEU:HD11	5:J:195:GLY:O	2.20	0.42
6:K:205:TYR:HE1	6:K:332:GLU:CG	2.32	0.42
6:K:317:LEU:O	6:K:318:ASP:C	2.63	0.42
7:N:60:ALA:O	7:N:64:ALA:N	2.30	0.42
7:N:450:HIS:O	7:N:453:HIS:N	2.52	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:5:SER:CB	16:W:100:ARG:HB2	2.49	0.42
16:W:25:ARG:NH2	16:W:113:VAL:O	2.47	0.42
20:C:74:VAL:HG23	20:C:134:LEU:HB2	2.01	0.42
29:d:1:MET:N	29:d:173:LEU:HD13	2.35	0.42
30:e:67:GLU:HA	30:e:72:GLU:O	2.18	0.42
25:n:19:ARG:NH2	25:n:24:GLU:OE1	2.52	0.42
30:s:38:ASN:ND2	30:s:40:TYR:CE1	2.88	0.42
32:u:92:LEU:HD22	32:u:112:ILE:HD11	2.02	0.42
2:v:297:ARG:O	2:v:301:GLU:N	2.33	0.42
1:w:116:ILE:C	1:w:118:ASP:N	2.76	0.42
1:w:203:LEU:C	1:w:205:LEU:N	2.76	0.42
1:w:249:ARG:HH12	5:x:279:GLN:CG	2.32	0.42
5:x:146:SER:OG	5:x:201:ARG:HB3	2.20	0.42
5:x:320:PRO:HG3	5:x:355:SER:CA	2.34	0.42
5:x:373:GLU:HB3	5:x:375:ARG:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:416:PHE:H	6:y:416:PHE:HD1	1.67	0.42
3:z:83:CYS:SG	3:z:89:LYS:HG2	2.59	0.42
3:z:141:GLN:NE2	3:z:301:ILE:HA	2.34	0.42
4:0:197:GLU:CD	4:0:350:ARG:HH21	2.28	0.42
4:0:376:SER:HB3	4:0:414:GLU:CD	2.33	0.42
4:0:433:ALA:C	4:0:435:LEU:H	2.27	0.42
7:1:10:SER:CB	13:7:166:ARG:HB3	2.50	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
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
14:8:245:PHE:O	14:8:246:VAL:C	2.62	0.42
16:AA:22:LEU:HA	16:AA:23:PRO:HA	1.63	0.42
18:AC:192:VAL:HA	18:AC:204:ALA:HB3	2.01	0.42
1:I:329:MET:HG3	1:I:347:ILE:HD11	2.01	0.42
1:I:379:THR:C	1:I:381:ASP:H	2.27	0.42
2:H:168:GLU:O	2:H:169:LYS:HG3	2.20	0.42
2:H:323:ARG:C	2:H:325:ASP:H	2.27	0.42
2:H:424:SER:C	2:H:426:THR:N	2.70	0.42
3:L:99:ALA:O	3:L:108:MET:N	2.40	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
4:M:236:LEU:HD12	4:M:354:PHE:CE2	2.55	0.42
4:M:317:LEU:HD12	4:M:317:LEU:HA	1.73	0.42
4:M:320:PHE:O	4:M:321:GLN:HB2	2.20	0.42
4:M:371:ARG:O	4:M:372:LYS:C	2.61	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
5:J:146:SER:OG	5:J:201:ARG:HB3	2.20	0.42
5:J:184:LYS:HG3	5:J:280:LEU:CD1	2.48	0.42
5:J:295:THR:OG1	5:J:296:ASN:N	2.43	0.42
6:K:348:ILE:HG21	6:K:379:CYS:CB	2.49	0.42
7:N:902:PRO:HD3	7:N:914:LEU:CD1	2.48	0.42
8:O:353:LEU:HD12	8:O:353:LEU:HA	1.87	0.42
9:P:199:TYR:O	9:P:203:GLN:CG	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:353:ASP:O	9:P:354:LEU:C	2.62	0.42
10:Q:48:GLN:O	10:Q:50:ILE:N	2.52	0.42
10:Q:148:HIS:CE1	10:Q:152:GLN:CD	2.98	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
15:V:240:HIS:C	15:V:244:VAL:HG23	2.38	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
20:C:87:HIS:C	20:C:87:HIS:ND1	2.77	0.42
32:g:110:MET:HE3	32:g:110:MET:HB2	1.84	0.42
24:m:196:ARG:CZ	24:m:239:ARG:HG2	2.49	0.42
26:o:149:LYS:NZ	26:o:185:GLU:OE2	2.47	0.42
2:v:112:ILE:CB	2:v:122:VAL:HG22	2.49	0.42
2:v:397:ILE:CD1	1:w:214:MET:HE2	2.49	0.42
5:x:31:LEU:N	5:x:34:ILE:CD1	2.81	0.42
5:x:271:ARG:CG	5:x:275:GLU:OE1	2.66	0.42
6:y:80:LYS:HB3	15:9:151:VAL:HG23	2.02	0.42
6:y:91:GLN:NE2	6:y:91:GLN:O	2.53	0.42
3:z:56:ILE:N	3:z:100:LEU:O	2.52	0.42
3:z:61:LEU:HB2	3:z:70:ILE:HG22	2.02	0.42
3:z:140:GLU:O	3:z:144:GLU:CB	2.68	0.42
3:z:141:GLN:CG	3:z:299:ILE:HG23	2.50	0.42
3:z:141:GLN:HG2	3:z:299:ILE:CG2	2.50	0.42
3:z:198:VAL:C	3:z:200:SER:N	2.77	0.42
3:z:245:GLU:HG2	3:z:251:ARG:NH2	2.34	0.42
7:1:11:LEU:HA	7:1:14:GLU:OE1	2.19	0.42
7:1:133:ILE:HA	7:1:136:LYS:HB2	2.01	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
8:2:24:ARG:O	8:2:25:LEU:C	2.62	0.42
9:3:146:THR:HA	9:3:149:LEU:HG	2.01	0.42
10:4:37:GLU:CB	10:4:38:ASN:C	2.93	0.42
10:4:106:GLU:O	10:4:110:CYS:N	2.41	0.42
10:4:277:LEU:C	10:4:279:TYR:H	2.26	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
1:I:226:GLY:N	1:I:232:LYS:HE2	2.34	0.42
1:I:349:ARG:NH2	2:H:394:MET:SD	2.92	0.42
2:H:205:GLY:C	2:H:206:ILE:CG2	2.93	0.42
2:H:285:PHE:N	2:H:285:PHE:CD1	2.85	0.42
2:H:327:LEU:HD13	2:H:327:LEU:HA	1.85	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:409:ARG:O	4:M:411:GLY:N	2.53	0.42
5:J:373:GLU:O	5:J:373:GLU:HG3	2.19	0.42
6:K:40:LEU:C	6:K:42:SER:N	2.77	0.42
6:K:342:ARG:CG	6:K:364:VAL:HG11	2.50	0.42
7:N:10:SER:CB	13:T:166:ARG:HB3	2.50	0.42
7:N:191:LYS:HB2	7:N:194:ARG:HH21	1.85	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
12:S:477:HIS:HA	12:S:480:ILE:HD13	2.02	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
18:Z:734:SER:HA	18:Z:768:LEU:O	2.19	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
25:X:152:ASP:HB2	25:X:153:PRO:HD2	2.02	0.42
29:d:43:LEU:HB2	29:d:183:ILE:HD11	2.02	0.42
20:i:51:GLN:CG	20:i:56:TYR:HB2	2.45	0.42
22:k:96:LEU:HG	29:r:62:LYS:CD	2.50	0.42
24:m:236:LEU:HD23	24:m:236:LEU:HA	1.89	0.42
29:r:1:MET:N	29:r:173:LEU:HD13	2.35	0.42
2:v:139:ARG:O	2:v:153:LEU:HB2	2.19	0.42
2:v:248:LYS:HE2	1:w:259:TYR:CG	2.54	0.42
2:v:257:VAL:O	2:v:261:PHE:HD2	2.02	0.42
1:w:204:PRO:CG	1:w:211:TYR:HE2	2.30	0.42
1:w:220:LYS:N	1:w:348:ASP:OD2	2.52	0.42
1:w:373:THR:HG21	1:w:413:LYS:HG2	2.01	0.42
5:x:377:HIS:CE1	11:5:206:SER:CB	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:317:LEU:O	6:y:318:ASP:C	2.63	0.42
6:y:407:ILE:O	6:y:409:LYS:N	2.42	0.42
3:z:365:GLU:C	3:z:367:PHE:N	2.76	0.42
7:1:183:LEU:HD12	7:1:183:LEU:HA	1.83	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
11:5:301:ILE:O	11:5:302:HIS:C	2.62	0.42
12:6:487:HIS:CE1	12:6:491:VAL:HG21	2.54	0.42
14:8:67:VAL:HG21	16:AA:92:VAL:HG13	2.01	0.42
14:8:224:HIS:HB3	14:8:228:TYR:CE1	2.53	0.42
14:8:256:GLN:CD	15:9:299:CYS:SG	3.01	0.42
18:AC:309:GLU:O	18:AC:312:GLU:C	2.58	0.42
18:AC:381:VAL:HA	18:AC:771:LEU:HA	2.01	0.42
1:I:116:ILE:C	1:I:118:ASP:N	2.76	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:293:LYS:NZ	5:J:302:ASP:OD2	2.51	0.42
1:I:296:ASP:O	1:I:298:ASN:N	2.53	0.42
2:H:161:VAL:CG1	2:H:263:MET:CE	2.88	0.42
2:H:284:ARG:NH1	4:M:334:ARG:HG3	2.35	0.42
2:H:402:LYS:HG3	2:H:403:ILE:HG13	2.02	0.42
3:L:56:ILE:HG22	3:L:57:VAL:N	2.35	0.42
3:L:194:ASN:CB	3:L:228:CYS:SG	3.07	0.42
4:M:183:GLU:OE1	4:M:235:LEU:HD22	2.19	0.42
4:M:197:GLU:CD	4:M:350:ARG:HH21	2.28	0.42
4:M:253:GLY:N	4:M:254:PRO:HD2	2.35	0.42
5:J:110:PRO:C	5:J:111:ASN:CG	2.88	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
5:J:171:HIS:C	5:J:173:GLU:N	2.77	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
7:N:22:PHE:CG	13:T:121:LEU:HD21	2.51	0.42
8:O:339:ARG:C	8:O:340:VAL:HG13	2.45	0.42
10:Q:242:ILE:CG1	10:Q:243:ASP:N	2.78	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
28:c:178:ASP:OD1	30:s:24:ALA:HB1	2.19	0.42
32:g:92:LEU:HD22	32:g:112:ILE:HD11	2.00	0.42
20:i:191:ILE:HG21	20:i:229:LEU:CD2	2.48	0.42
31:t:16:ALA:HB2	31:t:121:VAL:HG23	2.02	0.42
2:v:153:LEU:HD21	1:w:132:TYR:CZ	2.54	0.42
2:v:153:LEU:CD2	1:w:132:TYR:CZ	3.02	0.42
2:v:166:VAL:HG22	2:v:168:GLU:O	2.18	0.42
1:w:303:ARG:HE	1:w:303:ARG:HB3	1.78	0.42
1:w:355:LEU:HD23	1:w:355:LEU:N	2.35	0.42
5:x:154:LEU:HD11	5:x:195:GLY:O	2.20	0.42
5:x:300:ILE:CG1	5:x:301:LEU:N	2.82	0.42
6:y:167:ILE:CD1	6:y:218:ALA:CB	2.72	0.42
6:y:327:LEU:HD23	6:y:327:LEU:HA	1.88	0.42
3:z:257:LEU:HD13	3:z:258:MET:N	2.35	0.42
4:0:344:ARG:O	4:0:345:SER:HB3	2.19	0.42
7:1:191:LYS:HB2	7:1:194:ARG:HH21	1.85	0.42
7:1:348:THR:O	7:1:376:MET:HE3	2.20	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
10:4:46: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
10:4:239:TYR:O	10:4:244:SER:CA	2.66	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
13:7:224:VAL:CG2	13:7:225:TYR:N	2.68	0.42
1:I:66:GLU:O	1:I:70:ASP:N	2.42	0.42
1:I:214:MET:HE2	2:H:397:ILE:CD1	2.49	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
2:H:342:GLU:C	2:H:343:PHE:HD1	2.28	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:171:ARG:HH12	4:M:263:ASP:CG	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
4:M:437:TYR:CD1	4:M:437:TYR:C	2.98	0.42
5:J:48:GLN:CD	12:S:501:TYR:CB	2.93	0.42
5:J:274:LEU:HA	5:J:274:LEU:HD23	1.87	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:187:TYR:O	11:R:188:CYS:C	2.61	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
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
18:Z:198:HIS:C	18:Z:200:ALA:N	2.76	0.42
23:F:202:LEU:HD12	23:F:202:LEU:HA	1.84	0.42
24:G:62:LYS:HB3	24:G:62:LYS:HE3	1.77	0.42
30:e:50:ALA:CB	31:f:127:VAL:HG23	2.50	0.42
31:f:16:ALA:HB2	31:f:121:VAL:HG23	2.01	0.42
20:i:28:VAL:C	20:i:30:GLY:H	2.27	0.42
20:i:73:LEU:CD2	20:i:135:ILE:HG12	2.50	0.42
20:i:79:GLY:O	20:i:82:TYR:HB3	2.20	0.42
20:i:94:GLN:OE1	27:p:61:SER:HA	2.20	0.42
20:i:96:TYR:OH	28:q:78:GLU:OE2	2.28	0.42
22:k:120:GLN:HG3	23:l:135:ARG:CZ	2.49	0.42
29:r:13:VAL:HG11	29:r:105:ALA:HB1	2.01	0.42
32:u:25:ASP:HA	32:u:187:PHE:HA	2.01	0.42
1:w:144:LEU:HD21	1:w:162:VAL:CG2	2.41	0.42
5:x:46:GLN:HB3	6:y:61:ILE:CG2	2.49	0.42
5:x:141:GLU:O	6:y:323:ARG:HD3	2.20	0.42
5:x:162:LYS:NZ	11:5:99:GLU:OE2	2.53	0.42
5:x:175:PHE:O	5:x:180:ILE:HG13	2.20	0.42
5:x:228:ALA:HB3	5:x:233:GLU:OE2	2.15	0.42
6:y:227:PHE:CE1	6:y:261:ILE:CG2	3.01	0.42
6:y:230:VAL:CG1	6:y:235:PHE:CZ	2.98	0.42
6:y:339:ARG:O	6:y:342:ARG:HB2	2.20	0.42
6:y:345:PHE:CE1	6:y:360:LEU:HD21	2.54	0.42
6:y:348:ILE:HG21	6:y:379:CYS:CB	2.47	0.42
3:z:171:LEU:HD13	3:z:277:MET:C	2.43	0.42
3:z:264:MET:CE	3:z:277:MET:HE2	2.46	0.42
4:0:359:GLU:O	4:0:362:ARG:CB	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:49:VAL:HG12	16:AA:50:GLY:O	2.19	0.42
16:AA:125:VAL:HA	16:AA:128:ALA:HB3	2.01	0.42
18:AC:247:ALA:O	18:AC:250:ARG:N	2.52	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
5:J:79:ALA:C	5:J:80:MET:CG	2.90	0.42
5:J:162:LYS:NZ	11:R:99:GLU:OE2	2.53	0.42
5:J:339:THR:HG1	5:J:377:HIS:HB3	1.83	0.42
6:K:193:GLN:C	6:K:195:GLY:N	2.78	0.42
6:K:257:ASN:O	6:K:258:ALA:CB	2.67	0.42
7:N:158:ARG:HA	7:N:193:PHE:CZ	2.55	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:H	7:N:916:ASP:CB	2.33	0.42
8:O:62:ASN:C	8:O:65:SER:HG	2.27	0.42
8:O:184:ASP:C	8:O:186:LYS:N	2.77	0.42
8:O:343:LEU:HD21	14:U:216:ALA:CB	2.48	0.42
8:O:346:ILE:O	8:O:349:MET:HB2	2.20	0.42
9:P:438:LEU:CD1	14:U:236:LEU:HD12	2.49	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
12:S:432:GLU:HA	12:S:435:GLU:OE2	2.20	0.42
15:V:234:TYR:OH	15:V:298:GLN:NE2	2.53	0.42
18:Z:309:GLU:O	18:Z:312:GLU:C	2.58	0.42
18:Z:412:ALA:O	18:Z:416:MET:N	2.46	0.42
20:C:133:LEU:O	20:C:147:GLN:HA	2.20	0.42
30:e:8:PHE:HD1	30:e:8:PHE:H	1.68	0.42
30:e:38:ASN:ND2	30:e:40:TYR:OH	2.53	0.42
19:h:25:VAL:HG11	19:h:157:ALA:CB	2.49	0.42
2:v:213:LEU:HD22	2:v:214:LEU:N	2.35	0.42
2:v:264:ALA:HB1	2:v:315:ILE:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:v:351:ARG:NH2	2:v:374:ALA:O	2.44	0.42
2:v:402:LYS:HG3	2:v:403:ILE:HG13	2.02	0.42
1:w:257:GLN:H	1:w:257:GLN:HG2	1.66	0.42
1:w:288:ASP:CB	1:w:331:THR:CG2	2.78	0.42
5:x:340:ARG:CB	5:x:340:ARG:NH1	2.83	0.42
6:y:89:ILE:HA	6:y:130:VAL:O	2.20	0.42
6:y:193:GLN:C	6:y:195:GLY:N	2.78	0.42
6:y:345:PHE:CZ	6:y:360:LEU:HD11	2.50	0.42
6:y:388:ARG:HG3	6:y:388:ARG:NH1	2.32	0.42
3:z:265:ASP:HB3	3:z:266:GLY:H	1.75	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
7:1:84:ALA:HB1	7:1:87:LEU:HB2	2.01	0.42
7:1:86:ASP:CG	7:1:87:LEU:N	2.77	0.42
7:1:427:LEU:HD23	7:1:427:LEU:HA	1.93	0.42
9:3:408:ARG:HD2	9:3:408:ARG:HA	1.71	0.42
9:3:422:ASN:ND2	15:9:235:SER:HA	2.35	0.42
10:4:232:PHE:CE1	10:4:253:TYR:CB	3.03	0.42
11:5:28:LEU:C	11:5:30:GLU:N	2.77	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
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
1:I:136:LEU:HD22	2:H:87:LEU:HD22	1.87	0.41
2:H:345:LEU:HD11	2:H:430:MET:HE3	1.99	0.41
2:H:355:PHE:HD2	2:H:370:PHE:HB3	1.85	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
5:J:209:CYS:SG	5:J:243:PRO:CB	3.00	0.41
5:J:297:ARG:C	5:J:299:ASP:N	2.78	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
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:90:ARG:O	10:Q:94:ASP:HB2	2.20	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:129:LEU:O	10:Q:129:LEU:HD23	2.19	0.41
11:R:27:SER:O	11:R:28:LEU:C	2.54	0.41
11:R:31:HIS:CG	11:R:31:HIS:O	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:32:GLN:O	14:U:33:LYS:CB	2.68	0.41
14:U:214:LYS:O	14:U:218:GLY:N	2.53	0.41
21:D:142:HIS:CE1	29:d:73:TYR:CD1	3.08	0.41
21:D:164:ILE:HD13	21:D:164:ILE:HA	1.91	0.41
25:X:174:THR:CG2	3:z:372:ARG:HE	2.33	0.41
31:f:13:LEU:HD12	31:f:14:ALA:H	1.84	0.41
20:i:133:LEU:O	20:i:147:GLN:HA	2.19	0.41
22:k:107:ILE:HD12	22:k:107:ILE:HA	1.88	0.41
24:m:196:ARG:O	24:m:198:THR:N	2.53	0.41
26:o:173:VAL:HG23	26:o:190:LEU:HB3	2.02	0.41
30:s:161:TYR:O	30:s:164:THR:OG1	2.33	0.41
2:v:161:VAL:O	2:v:263:MET:HE1	2.20	0.41
2:v:263:MET:O	2:v:267:LYS:HG3	2.19	0.41
2:v:297:ARG:NH1	4:0:303:ASP:OD2	2.53	0.41
2:v:342:GLU:C	2:v:343:PHE:HD1	2.28	0.41
1:w:170:LEU:CD1	1:w:269:GLU:HG3	2.49	0.41
5:x:157:GLN:O	5:x:161:ILE:N	2.42	0.41
6:y:66:LYS:CE	6:y:70:LYS:HE3	2.50	0.41
6:y:121:ARG:O	6:y:123:LEU:CA	2.64	0.41
6:y:321:LEU:HD23	6:y:321:LEU:HA	1.81	0.41
6:y:395:LEU:HD23	6:y:395:LEU:HA	1.84	0.41
3:z:58:GLY:O	3:z:98:VAL:N	2.30	0.41
3:z:281:ARG:O	3:z:281:ARG:CG	2.67	0.41
4:0:139:LEU:O	4:0:140:VAL:HG22	2.20	0.41
4:0:258:GLN:CG	4:0:263:ASP:HB3	2.50	0.41
4:0:371:ARG:O	4:0:372:LYS:C	2.61	0.41
7:1:94:SER:OG	7:1:97:VAL:HG23	2.20	0.41
8:2:169:HIS:O	8:2:170:ALA:C	2.62	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
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
2:H:99:THR:CB	2:H:142:VAL:CG2	2.94	0.41
2:H:160:THR:O	2:H:164:MET:CE	2.58	0.41
2:H:309:PHE:CZ	4:M:248:PHE:CZ	3.08	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:141:GLN:HG2	3:L:299:ILE:CG2	2.50	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:86:LEU:N	4:M:87:PRO:CD	2.83	0.41
4:M:191:LEU:HA	4:M:191:LEU:HD23	1.83	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
5:J:65:LEU:HD21	6:K:114:ARG:NH2	2.35	0.41
5:J:141:GLU:O	6:K:323:ARG:HD3	2.20	0.41
5:J:193:GLY:C	5:J:355:SER:HB2	2.45	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
7:N:56:SER:O	7:N:58:GLN:N	2.53	0.41
8:O:24:ARG:O	8:O:25:LEU:C	2.62	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
10:Q:37:GLU:CB	10:Q:38:ASN:C	2.93	0.41
11:R:282:MET:C	11:R:284:LYS:N	2.78	0.41
11:R:294:TYR:C	11:R:294:TYR:CD1	2.98	0.41
11:R:301:ILE:O	11:R:302:HIS:C	2.62	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
14:U:157:HIS:ND1	14:U:157:HIS:C	2.77	0.41
15:V:261:GLU:C	15:V:263:ASP:N	2.78	0.41
16:W:7:MET:HA	16:W:50:GLY:N	2.29	0.41
16:W:164:ASP:HB3	16:W:169:HIS:CE1	2.55	0.41
23:F:148:GLU:OE2	31:f:81:LYS:NZ	2.53	0.41
24:G:10:VAL:HG11	24:G:120:THR:HA	2.02	0.41
26:a:166:ARG:CZ	32:u:37:ARG:HD2	2.50	0.41
27:b:191:VAL:HG12	27:b:193:ASN:O	2.20	0.41
30:e:26:ILE:O	28:q:177:ARG:NH1	2.51	0.41
30:e:166:ARG:CZ	29:r:140:LEU:HB3	2.50	0.41
32:g:37:ARG:HD2	26:o:166:ARG:CZ	2.50	0.41
19:h:159:TYR:HD1	19:h:159:TYR:C	2.28	0.41
24:m:140:MET:CG	32:u:81:HIS:CE1	2.93	0.41
25:n:215:TRP:CD1	25:n:227:VAL:HA	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:o:25:TYR:CZ	27:p:132:LEU:CD2	3.03	0.41
28:q:73:LEU:HA	28:q:73:LEU:HD23	1.80	0.41
29:r:43:LEU:HB2	29:r:183:ILE:HD11	2.02	0.41
2:v:205:GLY:C	2:v:206:ILE:CG2	2.93	0.41
2:v:274:PHE:CB	2:v:277:ILE:HG23	2.50	0.41
1:w:95:GLU:HA	1:w:98:LYS:HD2	2.02	0.41
1:w:197:ILE:CG2	1:w:235:LEU:HD11	2.42	0.41
1:w:226:GLY:N	1:w:232:LYS:HE2	2.34	0.41
1:w:258:LYS:HB3	1:w:297:SER:OG	2.19	0.41
1:w:296:ASP:O	1:w:298:ASN:N	2.53	0.41
1:w:387:LYS:CB	1:w:390:LEU:HB3	2.50	0.41
5:x:65:LEU:HD21	6:y:114:ARG:NH2	2.35	0.41
5:x:89:VAL:HG12	5:x:90:HIS:N	2.35	0.41
5:x:171:HIS:C	5:x:173:GLU:N	2.77	0.41
6:y:70:LYS:HE2	14:8:182:THR:HG1	1.84	0.41
6:y:145:PRO:HB2	6:y:256:GLU:HG3	2.00	0.41
6:y:244:PRO:CB	6:y:248:ARG:NH1	2.83	0.41
6:y:287:ARG:HG3	6:y:287:ARG:H	1.57	0.41
6:y:299:PHE:CD1	6:y:303:VAL:CB	3.03	0.41
6:y:373:ALA:O	6:y:376:ASN:CB	2.68	0.41
3:z:72:LYS:O	3:z:73:ALA:C	2.62	0.41
3:z:132:TYR:CE2	3:z:146:ARG:CZ	3.03	0.41
3:z:145:LEU:CD1	3:z:299:ILE:HD13	2.40	0.41
3:z:338:PHE:HA	3:z:378:LYS:HZ3	1.82	0.41
4:0:86:LEU:N	4:0:87:PRO:CD	2.83	0.41
4:0:249:LEU:N	4:0:282:ILE:O	2.44	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
10:4:218:HIS:HD2	10:4:231:TYR:CD2	2.38	0.41
11:5:31:HIS:CG	11:5:31:HIS:O	2.72	0.41
11:5:146:ARG:HH11	11:5:213:LEU:CD1	2.31	0.41
14:8:40:LEU:HD11	14:8:91:ILE:HD12	1.95	0.41
14:8:214:LYS:O	14:8:218:GLY:N	2.53	0.41
15:9:251:LEU:O	15:9:252:ALA:C	2.62	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
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
2:H:86:THR:O	2:H:89:SER:OG	2.37	0.41
2:H:132:THR:C	2:H:134:ILE:N	2.79	0.41
2:H:219:GLY:HA2	33:H:501:ADP:H5'2	2.02	0.41
2:H:241:ILE:O	2:H:244:GLU:HB2	2.20	0.41
2:H:315:ILE:N	2:H:315:ILE:CD1	2.69	0.41
3:L:56:ILE:HG22	3:L:100:LEU:HB2	2.02	0.41
3:L:61:LEU:HB2	3:L:70:ILE:HG22	2.02	0.41
3:L:152:PRO:HA	3:L:159:PHE:HE2	1.85	0.41
4:M:85:THR:C	4:M:87:PRO:HD2	2.46	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
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
7:N:84:ALA:HB1	7:N:87:LEU:HB2	2.01	0.41
7:N:348:THR:O	7:N:376:MET:HE3	2.20	0.41
7:N:368:ALA:HB2	7:N:728:PHE:CE2	2.56	0.41
7:N:529:ILE:O	7:N:533:VAL:N	2.45	0.41
8:O:139:GLU:HA	8:O:155:PHE:CZ	2.55	0.41
9:P:375:MET:O	9:P:376:LYS:C	2.62	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:321:GLU:CG	11:R:322:ALA:H	2.34	0.41
12:S:234:ARG:O	12:S:235:LEU:C	2.63	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
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
22:E:96:LEU:CD2	29:d:58:GLU:HB3	2.51	0.41
24:G:140:MET:CG	32:g:81:HIS:CE1	2.91	0.41
23:l:91:LYS:HG3	23:l:119:LEU:HD11	2.02	0.41
2:v:121:PHE:HB3	2:v:123:VAL:CG1	2.50	0.41
2:v:284:ARG:NH1	4:0:334:ARG:HG3	2.35	0.41
2:v:355:PHE:HD2	2:v:370:PHE:HB3	1.85	0.41
1:w:199:GLU:HA	1:w:203:LEU:HB2	2.03	0.41
1:w:266:LEU:HD21	5:x:229:ARG:HB3	2.03	0.41
1:w:320:ASP:O	1:w:321:SER:CB	2.69	0.41
6:y:40:LEU:C	6:y:42:SER:N	2.77	0.41
6:y:378:ILE:CG1	6:y:406:VAL:CG2	2.86	0.41
3:z:31:GLU:C	3:z:33:LEU:N	2.76	0.41
3:z:56:ILE:HG22	3:z:100:LEU:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:z:56:ILE:HG22	3:z:57:VAL:N	2.35	0.41
3:z:97:ARG:NE	3:z:112:PRO:O	2.51	0.41
3:z:150:GLU:HG3	3:z:191:LEU:HD21	2.02	0.41
3:z:152:PRO:HA	3:z:159:PHE:HE2	1.85	0.41
3:z:153:LEU:O	3:z:156:PRO:CD	2.67	0.41
3:z:175:PRO:CD	3:z:178:THR:HG21	2.43	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
4:0:337:ILE:O	4:0:338:LEU:C	2.63	0.41
4:0:383:GLU:OE1	4:0:417:HIS:CE1	2.73	0.41
4:0:391:PHE:C	4:0:392:ASN:O	2.61	0.41
7:1:31:VAL:O	7:1:35:TRP:HD1	2.03	0.41
7:1:205:TYR:O	7:1:208:LEU:N	2.50	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
11:5:192:ARG:NH1	11:5:294:TYR:CD2	2.89	0.41
12:6:345:ARG:C	12:6:347:GLN:N	2.52	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
14:8:32:GLN:O	14:8:33:LYS:CB	2.68	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
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
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
2:H:346:PRO:CG	2:H:354:ILE:CD1	2.98	0.41
2:H:417:ILE:H	2:H:417:ILE:HG13	1.69	0.41
2:H:425:ALA:C	2:H:427:PRO:CD	2.94	0.41
3:L:62:LYS:CG	3:L:70:ILE:HD12	2.51	0.41
3:L:119:VAL:O	3:L:119:VAL:HG12	2.20	0.41
3:L:150:GLU:HG3	3:L:191:LEU:HD21	2.02	0.41
4:M:173:LYS:C	4:M:175:MET:N	2.79	0.41
5:J:271:ARG:CG	5:J:275:GLU:OE1	2.66	0.41
6:K:256:GLU:O	6:K:257:ASN:C	2.64	0.41
7:N:31:VAL:O	7:N:35:TRP:HD1	2.03	0.41
7:N:133:ILE:HA	7:N:136:LYS:HB2	2.01	0.41
7:N:700:GLU:C	7:N:702:THR:H	2.27	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:109:LEU:O	10:Q:110:CYS:C	2.64	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:502:ASN:O	12:S:503:LYS:CB	2.67	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
19:B:94:ALA:HA	19:B:118:ILE:HD11	2.02	0.41
29:d:9:GLY:HA3	29:d:12:TYR:CE1	2.55	0.41
19:h:141:ILE:HD12	19:h:220:VAL:HG12	2.02	0.41
21:j:72:MET:SD	21:j:110:LEU:HD23	2.60	0.41
25:n:187:ARG:HH11	25:n:187:ARG:HD3	1.75	0.41
28:q:163:LEU:HD23	28:q:189:ILE:HD13	2.01	0.41
28:q:171:MET:O	28:q:175:VAL:HB	2.21	0.41
1:w:356:PRO:HG3	1:w:364:ILE:CD1	2.50	0.41
5:x:151:ILE:HA	33:x:501:ADP:N1	2.36	0.41
3:z:104:THR:HG22	3:z:106:THR:HG23	2.02	0.41
3:z:148:VAL:CG1	3:z:170:CYS:SG	3.09	0.41
3:z:213:ARG:HB3	3:z:213:ARG:NH1	2.35	0.41
3:z:245:GLU:HG2	3:z:251:ARG:HH21	1.85	0.41
4:0:137:ILE:O	4:0:140:VAL:HG22	2.20	0.41
4:0:202:ILE:C	4:0:205:PRO:HD2	2.44	0.41
4:0:289:ASP:HA	4:0:292: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
9:3:353:ASP:O	9:3:354:LEU:C	2.62	0.41
9:3:384:LEU:CD1	9:3:388:GLU:CB	2.95	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
11:5:271:PHE:HZ	11:5:299:MET:CE	2.33	0.41
11:5:294:TYR:CD1	11:5:294:TYR:C	2.98	0.41
15:9:212:LEU:O	15:9:213:GLU:C	2.63	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:AC:387:GLN:O	18:AC:389:LYS:N	2.53	0.41
1:I:95:GLU:HA	1:I:98:LYS:HD2	2.02	0.41
1:I:387:LYS:CB	1:I:390:LEU:HB3	2.50	0.41
3:L:65:THR:N	3:L:68:LYS:HB2	2.34	0.41
3:L:141:GLN:CG	3:L:299:ILE:HG23	2.50	0.41
3:L:148:VAL:CG1	3:L:170:CYS:SG	3.09	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
5:J:146:SER:O	5:J:202:ALA:HA	2.21	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
7:N:165:LYS:O	7:N:166:THR:C	2.62	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:549:ALA:C	7:N:581:SER:CB	2.94	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:48:ASN:C	11:R:50:MET:N	2.78	0.41
11:R:178:ASN:O	11:R:179:ARG:C	2.63	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
14:U:245:PHE:O	14:U:246:VAL:C	2.62	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
21:D:115:CYS:HB3	21:D:154:GLY:O	2.20	0.41
28:c:82:ILE:HD11	28:c:86:THR:HG22	2.02	0.41
22:k:116:GLN:HG3	23:l:83:ALA:HB1	2.03	0.41
2:v:109:PRO:CG	2:v:110:LYS:N	2.84	0.41
2:v:114:ASN:HB3	2:v:120:LYS:HG3	2.00	0.41
2:v:383:ALA:O	2:v:386:ARG:CB	2.67	0.41
1:w:184:TYR:HE1	1:w:238:ALA:C	2.28	0.41
1:w:199:GLU:HA	1:w:203:LEU:CB	2.50	0.41
1:w:352:GLU:C	1:w:353:PHE:HD1	2.28	0.41
1:w:412:MET:HE3	1:w:412:MET:HB3	1.67	0.41
5:x:136:SER:O	5:x:140:VAL:HG23	2.20	0.41
5:x:325:ARG:O	5:x:326:LEU:C	2.62	0.41
5:x:374:ARG:HD2	5:x:374:ARG:N	2.36	0.41
6:y:163:MET:CA	6:y:221:HIS:ND1	2.80	0.41
4:0:173:LYS:C	4:0:175:MET:N	2.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:NH1	4:0:347:ARG:CG	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
7:1:375:PHE:C	7:1:739:ALA:HA	2.46	0.41
7:1:715:LYS:O	7:1:719:ASP:N	2.44	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
8:2:374:ILE:CD1	13:7:347:GLU:HG2	2.50	0.41
10:4:212:MET:HE1	10:4:249:THR:CG2	2.43	0.41
11:5:32:ARG:HA	11:5:33:GLY:C	2.43	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
1:I:184:TYR:HE1	1:I:238:ALA:C	2.28	0.41
1:I:203:LEU:C	1:I:205:LEU:H	2.27	0.41
1:I:231:GLY:CA	33:I:501:ADP:O1A	2.69	0.41
1:I:238:ALA:O	1:I:241:ASN:HB3	2.20	0.41
2:H:264:ALA:HB1	2:H:315:ILE:HG23	2.02	0.41
3:L:52:SER:HB2	4:M:136:VAL:HG21	2.02	0.41
4:M:202:ILE:C	4:M:205:PRO:HD2	2.44	0.41
4:M:206:MET:SD	4:M:206:MET:O	2.78	0.41
4:M:295:ARG:HH11	4:M:295:ARG:CG	2.33	0.41
4:M:380:ASN:HD22	24:m:170:THR:HG21	1.85	0.41
5:J:87:VAL:O	5:J:94:LYS:HA	2.21	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
6:K:66:LYS:CE	6:K:70:LYS:HE3	2.50	0.41
6:K:337:ASP:O	6:K:341:LYS:HE3	2.21	0.41
7:N:27:LEU:C	7:N:31:VAL:HG23	2.46	0.41
7:N:35:TRP:CH2	7:N:70:HIS:HB3	2.56	0.41
10:Q:218:HIS:HD2	10:Q:231:TYR:CD2	2.38	0.41
11:R:145:LEU:O	11:R:146:ARG:C	2.63	0.41
12:S:469:THR:O	12:S:472:PRO:CD	2.66	0.41
16:W:52:ILE:HG22	16:W:60:VAL:HG22	2.03	0.41
19:B:32:ILE:HD13	19:B:137:CYS:HB2	2.01	0.41
26:a:173:VAL:CG2	26:a:190:LEU:HB3	2.50	0.41
28:q:138:VAL:HG11	28:q:146:MET:HB3	2.02	0.41
2:v:425:ALA:C	2:v:427:PRO:CD	2.94	0.41
1:w:102:LEU:HD23	1:w:102:LEU:HA	1.91	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:120:HIS:HB2	1:w:133:VAL:C	2.45	0.41
1:w:163:LEU:HG	1:w:164:MET:N	2.35	0.41
1:w:277:HIS:O	1:w:278:ALA:HB3	2.20	0.41
5:x:42:LEU:HA	5:x:45:LEU:HD12	2.00	0.41
5:x:110:PRO:C	5:x:111:ASN:CG	2.88	0.41
5:x:154:LEU:CD2	5:x:317:PHE:CD2	3.03	0.41
5:x:326:LEU:HG	5:x:330:LYS:HE3	2.01	0.41
5:x:381:GLU:HG3	10:4:191:THR:OG1	2.21	0.41
3:z:148:VAL:O	3:z:167:PRO:CG	2.63	0.41
3:z:242:ARG:O	3:z:243:PHE:CD1	2.74	0.41
4:0:253:GLY:C	4:0:290:ALA:HB1	2.46	0.41
7:1:49:TYR:C	7:1:57:ARG:HD2	2.45	0.41
7:1:69:TYR:OH	12:6:240:LEU:HG	2.20	0.41
7:1:549:ALA:C	7:1:581:SER:CB	2.94	0.41
8:2:177:LEU:HD23	8:2:177:LEU:HA	1.92	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
11:5:197:ALA:HB1	11:5:201:PHE:HE2	1.80	0.41
11:5:316:LEU:HD23	11:5:316:LEU:HA	1.87	0.41
12:6:60:ALA:O	12:6:64:GLN:N	2.36	0.41
14:8:101:LEU:HD23	14:8:138:TYR:HE2	1.85	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
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
1:I:122:ILE:CD1	1:I:130:GLU:O	2.69	0.41
1:I:266:LEU:HD21	5:J:229:ARG:HB3	2.03	0.41
1:I:295:TYR:OH	5:J:271:ARG:HB2	2.21	0.41
1:I:374:LEU:O	1:I:375:ALA:C	2.63	0.41
2:H:102:ILE:CD1	2:H:120:LYS:CG	2.91	0.41
2:H:205:GLY:C	2:H:206:ILE:HG23	2.44	0.41
2:H:319:MET:CE	2:H:337:LEU:CD1	2.97	0.41
2:H:383:ALA:O	2:H:386:ARG:CB	2.67	0.41
3:L:199:VAL:C	3:L:233:ASP:O	2.64	0.41
3:L:213:ARG:HB3	3:L:213:ARG:NH1	2.35	0.41
3:L:243:PHE:HD1	4:M:300:LYS:H	1.68	0.41
5:J:133:PRO:CD	5:J:237:MET:HE1	2.46	0.41
5:J:201:ARG:HA	5:J:201:ARG:HD3	1.89	0.41
5:J:338:LEU:CD2	5:J:342:ILE:CD1	2.87	0.41
5:J:374:ARG:N	5:J:374:ARG:HD2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:80:LYS:HB3	15:V:151:VAL:HG23	2.02	0.41
6:K:163:MET:CA	6:K:221:HIS:ND1	2.80	0.41
6:K:335:LEU:C	6:K:336:PRO:O	2.56	0.41
7:N:49:TYR:HA	7:N:57:ARG:HD2	2.03	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: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:268:TYR:CB	11:R:323:PHE:HE1	2.31	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
13:T:341:GLU:O	13:T:344:ARG:N	2.53	0.41
14:U:206:LEU:O	14:U:207:ASP:C	2.64	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
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
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
29:d:30:ASP:OD1	29:d:30:ASP:N	2.53	0.41
29:d:145:ARG:HD2	30:s:158:ARG:NH1	2.35	0.41
31:f:6:VAL:HG12	32:g:128:LEU:HD13	2.02	0.41
23:l:76:CYS:SG	23:l:141:LEU:HD22	2.61	0.41
25:n:33:SER:O	25:n:167:LYS:HG3	2.21	0.41
27:p:35:HIS:CG	27:p:56:THR:HG21	2.56	0.41
30:s:75:SER:HB2	30:s:105:ASP:OD2	2.21	0.41
2:v:232:ARG:O	2:v:232:ARG:HG2	2.21	0.41
2:v:393:GLY:HA2	1:w:214:MET:CE	2.51	0.41
2:v:422:LYS:H	2:v:422:LYS:HG2	1.73	0.41
5:x:131:VAL:O	5:x:132:ASP:O	2.37	0.41
5:x:146:SER:O	5:x:202:ALA:HA	2.21	0.41
5:x:193:GLY:C	5:x:355:SER:HB2	2.45	0.41
5:x:247:PHE:O	5:x:248:MET:HG3	2.20	0.41
5:x:322:GLU:O	5:x:326:LEU:HB2	2.20	0.41
5:x:336:MET:CE	5:x:367:GLY:HA3	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:y:100:THR:O	6:y:101:ALA:HB2	2.19	0.41
6:y:187:HIS:O	6:y:191:TYR:HD2	2.03	0.41
6:y:205:TYR:CZ	6:y:332:GLU:HG2	2.56	0.41
6:y:256:GLU:O	6:y:257:ASN:C	2.64	0.41
3:z:152:PRO:C	3:z:156:PRO:HB3	2.46	0.41
3:z:207:TYR:O	3:z:209:GLY:N	2.53	0.41
7:1:42:VAL:O	7:1:46:GLU:HG2	2.21	0.41
7:1:424:ALA:HA	7:1:427:LEU:HD12	2.03	0.41
7:1:437:TYR:O	7:1:438:GLN:C	2.62	0.41
7:1:672:LEU:O	7:1:676:THR:HG23	2.21	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
9:3:217:GLU:HA	9:3:220:GLU:CD	2.46	0.41
9:3:317:TRP:CE3	9:3:317:TRP:CA	3.04	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
14:8:101:LEU:C	14:8:102:HIS:CG	2.98	0.41
14:8:127:LYS:C	14:8:129:LYS:H	2.29	0.41
15:9:261:GLU:C	15:9:263:ASP:N	2.78	0.41
2:H:106:SER:C	2:H:108:ASP:N	2.77	0.41
2:H:202:VAL:O	2:H:203:ASN:C	2.61	0.41
2:H:306:LEU:O	2:H:307:ASP:CB	2.69	0.41
3:L:96:THR:HG22	3:L:98:VAL:HG13	2.03	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
4:M:161:LEU:HD23	4:M:161:LEU:HA	1.85	0.41
4:M:253:GLY:C	4:M:290:ALA:HB1	2.46	0.41
4:M:410:ARG:C	4:M:412:ALA:H	2.29	0.41
6:K:348:ILE:HG21	6:K:379:CYS:HB2	2.02	0.41
7:N:35:TRP:HH2	12:S:273:LYS:NZ	2.13	0.41
7:N:49:TYR:C	7:N:57:ARG:HD2	2.45	0.41
7:N:136:LYS:O	7:N:139:GLN:HB2	2.20	0.41
8:O:51:ALA:C	8:O:53:GLY:N	2.78	0.41
8:O:132:LYS:HB2	8:O:162:TYR:CE1	2.49	0.41
9:P:240:TYR:O	9:P:241:LEU:C	2.63	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:R:296:VAL:O	11:R:297:ARG:C	2.63	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
14:U:217:THR:C	14:U:219:LYS:N	2.74	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
29:d:13:VAL:HG11	29:d:105:ALA:HB1	2.01	0.41
30:e:161:TYR:O	30:e:164:THR:OG1	2.32	0.41
24:m:56:LEU:HA	24:m:56:LEU:HD23	1.85	0.41
28:q:51:ILE:HG13	28:q:109:ILE:HG12	2.03	0.41
31:t:181:SER:O	31:t:184:GLU:HB2	2.20	0.41
2:v:106:SER:C	2:v:108:ASP:N	2.77	0.41
2:v:219:GLY:HA2	33:v:501:ADP:H5'2	2.02	0.41
2:v:272:ILE:CD1	2:v:315:ILE:HG21	2.50	0.41
1:w:238:ALA:O	1:w:241:ASN:HB3	2.20	0.41
5:x:65:LEU:O	5:x:68:GLU:N	2.51	0.41
5:x:86:LEU:C	5:x:87:VAL:HG23	2.46	0.41
6:y:83:GLN:O	6:y:84:SER:OG	2.30	0.41
6:y:190:LEU:O	6:y:194:ILE:CB	2.66	0.41
6:y:339:ARG:O	6:y:340:GLN:C	2.63	0.41
6:y:342:ARG:CG	6:y:364:VAL:HG11	2.50	0.41
6:y:367:PRO:C	6:y:369:LYS:N	2.76	0.41
3:z:52:SER:HB2	4:0:136:VAL:HG21	2.02	0.41
3:z:130:VAL:HB	3:z:134:GLU:CG	2.51	0.41
3:z:243:PHE:HD1	4:0:300:LYS:H	1.68	0.41
3:z:253:ILE:O	3:z:254:GLN:O	2.38	0.41
4:0:244:THR:HG21	4:0:282:ILE:CD1	2.51	0.41
4:0:255:GLN:C	4:0:257:VAL:N	2.79	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
7:1:793:LYS:C	7:1:795:LEU:H	2.29	0.41
9:3:165:ILE:HG13	9:3:166:LEU:N	2.35	0.41
9:3:166:LEU:HD21	9:3:192:LEU:HD12	2.03	0.41
9:3:315:MET:HE3	9:3:315:MET:HB3	1.84	0.41
10:4:109:LEU:O	10:4:110:CYS:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:160:MET:O	10:4:161:ASP:HB2	2.19	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
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
18:AC:597:VAL:C	18:AC:599:ALA:N	2.77	0.41
1:I:114:GLU:O	1:I:121:ALA:CB	2.69	0.41
1:I:230:THR:HG23	1:I:354:PRO:O	2.21	0.41
1:I:252:GLY:C	1:I:255:LEU:H	2.29	0.41
1:I:272:ARG:NH1	1:I:272:ARG:CG	2.80	0.41
1:I:337:LEU:HA	1:I:337:LEU:HD13	1.78	0.41
2:H:232:ARG:HG2	2:H:232:ARG:O	2.21	0.41
2:H:351:ARG:CA	2:H:354:ILE:HD12	2.40	0.41
3:L:72:LYS:O	3:L:73:ALA:C	2.62	0.41
3:L:87:LEU:CD1	3:L:107:ILE:HG21	2.51	0.41
3:L:88:ASP:C	3:L:90:SER:N	2.79	0.41
3:L:193:CYS:O	3:L:194:ASN:HB2	2.21	0.41
3:L:303:LEU:CD1	3:L:337:GLY:O	2.62	0.41
3:L:329:GLU:O	3:L:333:LYS:HB2	2.21	0.41
4:M:88:TYR:OH	4:M:161:LEU:HB2	2.21	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
5:J:31:LEU:HA	5:J:31:LEU:HD23	1.80	0.41
5:J:82:LYS:C	5:J:83:LYS:HG3	2.46	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:151:ILE:HA	33:J:501:ADP:N1	2.36	0.41
5:J:151:ILE:HG23	33:J:501:ADP:C6	2.56	0.41
5:J:247:PHE:HD1	5:J:292:ILE:HB	1.86	0.41
6:K:205:TYR:CZ	6:K:332:GLU:HG2	2.56	0.41
7:N:42:VAL:O	7:N:46:GLU:HG2	2.21	0.41
7:N:79:ASN:HA	7:N:82:LEU:HD12	2.03	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:437:TYR:O	7:N:438:GLN:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:N:447:GLY:O	7:N:451:ALA:N	2.53	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
8:O:292:THR:HA	8:O:329:LYS:O	2.21	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:154:LEU:HD22	10:Q:154:LEU:HA	1.90	0.41
10:Q:232:PHE:CE1	10:Q:253:TYR:CB	3.03	0.41
10:Q:242:ILE:HG13	10:Q:243:ASP:N	2.28	0.41
10:Q:299:LEU:HD11	10:Q:331:LEU:CB	2.51	0.41
11:R:21:GLN:CB	11:R:286:TRP:CE3	3.04	0.41
11:R:134:LEU:HD11	11:R:138:LEU:CG	2.51	0.41
11:R:183:TYR:CZ	11:R:213:LEU:CD1	2.95	0.41
11:R:192:ARG:NH1	11:R:294:TYR:CD2	2.89	0.41
11:R:215:ASP:HB3	11:R:216:TYR:H	1.74	0.41
11:R:366:TYR:O	11:R:370:ILE:HG12	2.21	0.41
12:S:60:ALA:O	12:S:64:GLN:N	2.36	0.41
12:S:268:GLU:CB	12:S:299:GLN:HE22	2.32	0.41
12:S:487:HIS:CD2	14:U:267:ARG:HD3	2.56	0.41
13:T:121:LEU:HD23	13:T:121:LEU:HA	1.87	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
13:T:236:LEU:O	13:T:238:GLU:N	2.54	0.41
14:U:117:PRO:CG	14:U:118:ASN:H	2.34	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:HA	15:V:231:LEU:HD23	1.75	0.41
16:W:66:PRO:C	16:W:67:ASP:CG	2.87	0.41
18:Z:140:LEU:O	18:Z:143:ARG:N	2.52	0.41
18:Z:193:PRO:O	18:Z:197:ALA:N	2.29	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
23:F:33:LEU:CD2	2:v:378:PRO:HG2	2.45	0.41
24:G:166:GLN:CD	4:0:386:ARG:HH21	2.29	0.41
24:G:176:MET:CE	25:X:56:LYS:HB3	2.50	0.41
24:G:185:ASN:OD1	24:G:189:LYS:HE3	2.21	0.41
25:X:3:ILE:C	25:X:5:THR:N	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:X:178:LYS:NZ	3:z:365:GLU:OE2	2.53	0.41
26:a:173:VAL:HG23	26:a:190:LEU:HB3	2.01	0.41
28:c:107:PRO:HG2	28:c:124:LEU:HD13	2.03	0.41
28:c:158:MET:HE2	28:c:158:MET:HB3	1.93	0.41
19:h:163:PHE:HE1	20:i:56:TYR:CD1	2.39	0.41
20:i:132:SER:HB3	20:i:162:MET:CE	2.51	0.41
22:k:108:THR:HG23	22:k:133:ILE:HD12	2.02	0.41
2:v:108:ASP:HB3	2:v:109:PRO:CD	2.51	0.41
2:v:306:LEU:O	2:v:307:ASP:CB	2.69	0.41
1:w:252:GLY:C	1:w:255:LEU:H	2.29	0.41
1:w:313:LEU:HD11	1:w:340:ALA:CB	2.24	0.41
1:w:365:PHE:HB3	1:w:380:LEU:HD13	2.03	0.41
1:w:372:MET:HB2	5:x:178:LEU:O	2.21	0.41
1:w:374:LEU:O	1:w:375:ALA:C	2.63	0.41
1:w:417:GLU:O	1:w:421:LYS:N	2.41	0.41
5:x:65:LEU:O	5:x:68:GLU:HG3	2.21	0.41
5:x:72:TYR:CG	5:x:121:TYR:HE1	2.36	0.41
5:x:137:LEU:HD12	5:x:220:VAL:HG22	2.02	0.41
5:x:151:ILE:HG23	33:x:501:ADP:C6	2.56	0.41
5:x:232:ARG:NH1	5:x:232:ARG:CG	2.84	0.41
5:x:303:SER:O	5:x:305:LEU:N	2.54	0.41
5:x:370:ALA:HB2	5:x:382:ASP:OD2	2.20	0.41
6:y:155:THR:O	6:y:156:SER:HB3	2.21	0.41
6:y:215:LEU:HA	6:y:215:LEU:HD12	1.77	0.41
6:y:229:ARG:H	6:y:229:ARG:HG3	1.67	0.41
6:y:352:MET:H	6:y:352:MET:HG2	1.66	0.41
6:y:361:GLU:O	6:y:362:ASP:C	2.64	0.41
3:z:101:ASP:OD2	3:z:103:THR:N	2.42	0.41
3:z:119:VAL:O	3:z:119:VAL:HG12	2.20	0.41
3:z:121:ASN:C	3:z:125:GLU:HB3	2.44	0.41
3:z:182:LEU:HD12	3:z:185:ARG:HH11	1.84	0.41
3:z:199:VAL:C	3:z:233:ASP:O	2.64	0.41
3:z:211:SER:HB3	3:z:256:THR:HG23	2.03	0.41
3:z:241:ARG:HH11	3:z:241:ARG:HG2	1.86	0.41
3:z:281:ARG:HA	3:z:282:PRO:HD2	1.80	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
7:1:27:LEU:C	7:1:31:VAL:HG23	2.46	0.41
7:1:35:TRP:CH2	7:1:70:HIS:HB3	2.56	0.41
7:1:49:TYR:HA	7:1:57:ARG:HD2	2.03	0.41
7:1:56:SER:O	7:1:58:GLN:N	2.53	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
7:1:136:LYS:O	7:1:139:GLN:HB2	2.20	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
7:1:809:SER:C	7:1:812:ALA:H	2.29	0.41
8:2:248:PHE:CZ	8:2:272:ILE:CG1	3.04	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
10:4:154:LEU:C	10:4:158:LYS:NZ	2.78	0.41
10:4:295:LYS:C	10:4:297:ARG:N	2.76	0.41
10:4:297:ARG:HD3	10:4:333:GLN:OE1	2.21	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
11:5:30:GLU:HA	11:5:31:HIS:CB	2.43	0.41
11:5:48:ASN:C	11:5:50:MET:N	2.78	0.41
11:5:145:LEU:O	11:5:146:ARG:C	2.63	0.41
11:5:228:MET:CB	11:5:259:TYR:OH	2.69	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
12:6:449:ALA:HA	12:6:461:LYS:CG	2.51	0.41
12:6:469:THR:CG2	14:8:250:TYR:CG	2.80	0.41
13:7:195:ASN:O	13:7:198:PHE:HB2	2.21	0.41
13:7:243:LYS:O	13:7:246:LEU:N	2.54	0.41
14:8:237:LEU:HD23	14:8:237:LEU:HA	1.85	0.41
15:9:96:LEU:HD23	15:9:96:LEU:HA	1.82	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
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
18:AC:412:ALA:CA	18:AC:447:ALA:HB2	2.32	0.41
1:I:214:MET:CE	2:H:393:GLY:HA2	2.51	0.41
1:I:225:TYR:C	1:I:225:TYR:CD1	2.99	0.41
2:H:186:LYS:O	2:H:187:LEU:C	2.61	0.41
2:H:235:ALA:HB1	2:H:269:ALA:O	2.21	0.41
2:H:259:GLU:HG2	2:H:259:GLU:H	1.65	0.41
3:L:104:THR:HG22	3:L:106:THR:HG23	2.02	0.41
3:L:203:ILE:HD13	3:L:218:MET:HE1	2.03	0.41
3:L:334:LEU:CD2	3:L:372:ARG:HH11	2.32	0.41
4:M:80:ILE:HG22	4:M:84:LYS:CG	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:233:LYS:CD	33:M:501:ADP:O1B	2.65	0.41
5:J:36:ASN:O	5:J:38:LYS:N	2.54	0.41
5:J:361:GLY:O	5:J:364:THR:OG1	2.37	0.41
6:K:88:VAL:O	6:K:88:VAL:CG2	2.69	0.41
6:K:159:LYS:C	6:K:161:ASP:N	2.79	0.41
7:N:375:PHE:C	7:N:739:ALA:HA	2.46	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
8:O:126:GLY:O	8:O:127:ASP:C	2.64	0.41
9:P:217:GLU:HA	9:P:220:GLU:CD	2.46	0.41
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
10:Q:370:LEU:CD1	11:R:306:GLN:HG3	2.51	0.41
11:R:286:TRP:HE1	11:R:287:LEU:HD13	1.86	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
14:U:275:LEU:C	14:U:275:LEU:CD1	2.92	0.41
16:W:16:MET:CG	16:W:29:GLN:CD	2.94	0.41
17:Y:42:ASN:O	17:Y:43:TRP:CB	2.68	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
25:X:215:TRP:CD1	25:X:227:VAL:HA	2.55	0.41
27:b:3:ILE:HD11	27:b:127:MET:HB2	2.02	0.41
32:g:141:TYR:HE2	26:o:24:SER:HB2	1.87	0.41
22:k:101:PRO:HB2	22:k:102:VAL:H	1.71	0.41
23:l:239:LYS:HE2	23:l:239:LYS:HB3	1.92	0.41
27:p:75:ARG:HA	27:p:104:ASP:OD1	2.21	0.41
1:w:342:ILE:C	1:w:343:ARG:O	2.61	0.41
5:x:157:GLN:HB2	5:x:199:LEU:HD21	2.03	0.41
6:y:60:TYR:CE1	7:1:607:VAL:CG2	3.04	0.41
6:y:267:ILE:CG1	6:y:311:THR:CG2	2.97	0.41
6:y:374:ASP:OD1	3:z:292:PRO:HD2	2.21	0.41
3:z:96:THR:HG22	3:z:98:VAL:HG13	2.03	0.41
3:z:215:ILE:HD13	3:z:260:LEU:CG	2.45	0.41
3:z:358:ASP:O	3:z:359:HIS:CG	2.69	0.41
4:0:206:MET:SD	4:0:206:MET:O	2.78	0.41
4:0:224:LEU:HB2	4:0:348:LEU:HD22	2.03	0.41
7:1:105:ILE:O	7:1:106:ASP:C	2.64	0.41
7:1:368:ALA:HB2	7:1:728:PHE:CE2	2.56	0.41
7:1:444:TYR:CD1	7:1:444:TYR:C	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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
11:5:41:LEU:O	11:5:44:ALA:N	2.54	0.41
11:5:104:MET:HB3	11:5:127:THR:HG22	2.03	0.41
11:5:249:VAL:C	11:5:251:HIS:N	2.79	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
18:AC:259:PHE:C	18:AC:261:ARG:HA	2.44	0.41
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
2:H:215:PHE:HZ	2:H:342:GLU:HG2	1.86	0.40
3:L:78:ARG:HB3	6:K:89:ILE:HD12	2.03	0.40
3:L:183:LEU:O	3:L:187:VAL:HG23	2.21	0.40
4:M:391:PHE:C	4:M:392:ASN:O	2.61	0.40
5:J:38:LYS:HG2	5:J:38:LYS:H	1.65	0.40
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:336:MET:CE	5:J:367:GLY:HA3	2.51	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
7:N:7:GLY:O	7:N:11:LEU:N	2.31	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
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:161:PRO:C	12:S:164:GLU:H	2.29	0.40
12:S:267:ALA:O	12:S:270:LEU:HB3	2.21	0.40
13:T:309:VAL:H	13:T:309:VAL:HG12	1.45	0.40
15:V:212:LEU:O	15:V:213:GLU:C	2.63	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:96:TYR:OH	28:c:78:GLU:OE2	2.28	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:F:76:CYS:SG	23:F:141:LEU:HD22	2.61	0.40
23:F:103:TYR:OH	31:f:71:ARG:NH2	2.54	0.40
32:g:126:ASP:HB2	32:g:130:VAL:HB	2.04	0.40
19:h:89:SER:CB	25:n:117:MET:HE1	2.51	0.40
20:i:68:THR:HB	20:i:69:LYS:H	1.73	0.40
2:v:241:ILE:O	2:v:244:GLU:HB2	2.20	0.40
2:v:260:LEU:O	2:v:264:ALA:N	2.53	0.40
1:w:105:THR:HA	1:w:106:PRO:HA	1.74	0.40
1:w:254:GLU:CG	5:x:275:GLU:HG2	2.50	0.40
1:w:295:TYR:OH	5:x:271:ARG:HB2	2.21	0.40
5:x:87:VAL:O	5:x:94:LYS:HA	2.21	0.40
5:x:373:GLU:HB3	5:x:375:ARG:HG2	2.03	0.40
6:y:94:GLU:O	6:y:101:ALA:CB	2.68	0.40
6:y:124:LEU:HD12	6:y:142:VAL:HG21	2.01	0.40
6:y:129:SER:OG	6:y:252:ARG:NH1	2.54	0.40
6:y:261:ILE:CG2	6:y:308:ILE:HD12	2.51	0.40
3:z:62:LYS:CG	3:z:70:ILE:HD12	2.51	0.40
3:z:257:LEU:C	3:z:257:LEU:CD1	2.88	0.40
4:0:171:ARG:HH12	4:0:263:ASP:CG	2.28	0.40
4:0:434:ASN:C	4:0:436:GLN:H	2.29	0.40
4:0:437:TYR:CD1	4:0:437:TYR:C	2.98	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
7:1:399:TRP:HH2	7:1:507:VAL:HG23	1.85	0.40
7:1:765:VAL:HG11	7:1:778:PHE:CD1	2.56	0.40
7:1:776:SER:O	7:1:779:LEU:N	2.36	0.40
8:2:364:GLU:CG	8:2:365:MET:N	2.82	0.40
9:3:317:TRP:CH2	9:3:351:TRP:CH2	3.09	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
11:5:112:CYS:C	11:5:115:GLY:H	2.29	0.40
11:5:220:VAL:HG11	11:5:249:VAL:CG1	2.51	0.40
12:6:207:ALA:C	12:6:210:CYS:HB3	2.41	0.40
12:6:209:LYS:O	12:6:213:TYR:HD2	2.04	0.40
12:6:487:HIS:CD2	14:8:267:ARG:HD3	2.56	0.40
14:8:34:ARG:HH21	14:8:102:HIS:HD2	1.64	0.40
15:9:115:HIS:ND1	15:9:118:PHE:HE2	2.18	0.40
16:AA:16:MET:C	16:AA:18:ASN:N	2.78	0.40
18:AC:485:LEU:HA	18:AC:488:ALA:CB	2.44	0.40
18:AC:776:LEU:HA	18:AC:827:PRO:CA	2.49	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
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
3:L:55:GLN:NE2	3:L:108:MET:SD	2.95	0.40
3:L:56:ILE:CG2	3:L:100:LEU:HB2	2.51	0.40
3:L:77:PRO:HB2	6:K:106:THR:CB	2.51	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:OE2	3:L:349:GLU:HA	2.21	0.40
5:J:46:GLN:HB3	6:K:61:ILE:CG2	2.49	0.40
5:J:303:SER:O	5:J:305:LEU:N	2.54	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:370:ILE:CG2	6:K:375:ILE:HG13	2.52	0.40
7:N:105:ILE:O	7:N:106:ASP:C	2.64	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
14:U:83:LYS:HD3	14:U:83:LYS:HA	1.84	0.40
15:V:238:CYS:O	15:V:242:GLU:HG3	2.21	0.40
16:W:48:ASN:CG	16:W:65:THR:O	2.65	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
19:B:208:ILE:O	19:B:209:ASP:HB2	2.21	0.40
30:e:15:ALA:HB2	30:e:176:LEU:HD13	2.04	0.40
24:m:176:MET:SD	25:n:57:LEU:HD23	2.61	0.40
26:o:173:VAL:CG2	26:o:190:LEU:HB3	2.51	0.40
27:p:37:ILE:HD11	27:p:56:THR:OG1	2.21	0.40
2:v:224:LEU:O	2:v:228:ALA:CB	2.69	0.40
1:w:231:GLY:CA	33:w:501:ADP:O1A	2.69	0.40
5:x:80:MET:HE1	5:x:96:VAL:HG11	2.02	0.40
5:x:189:TYR:CG	5:x:298:ILE:CD1	2.96	0.40
5:x:228:ALA:HB3	5:x:233:GLU:CD	2.43	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:x:320:PRO:HG2	5:x:354:ALA:O	2.19	0.40
6:y:131:ALA:O	6:y:140:VAL:N	2.47	0.40
6:y:160:PRO:CD	6:y:220:ALA:HB1	2.51	0.40
6:y:337:ASP:CG	6:y:338:ARG:N	2.79	0.40
3:z:254:GLN:HA	3:z:257:LEU:HB3	2.02	0.40
4:0:85:THR:C	4:0:87:PRO:HD2	2.46	0.40
4:0:88:TYR:OH	4:0:161:LEU:HB2	2.21	0.40
4:0:185:TYR:C	4:0:187:ASP:N	2.79	0.40
4:0:288:LEU:O	4:0:289:ASP:C	2.64	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
8:2:51:ALA:C	8:2:53:GLY:N	2.78	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
12:6:161:PRO:C	12:6:164:GLU:H	2.29	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
16:AA:48:ASN:CG	16:AA:65:THR:O	2.65	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
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
1:I:374:LEU:C	1:I:374:LEU:HD23	2.47	0.40
1:I:381:ASP:O	1:I:382:ASP:C	2.65	0.40
2:H:403:ILE:H	2:H:403:ILE:HG13	1.61	0.40
3:L:152:PRO:C	3:L:156:PRO:HB3	2.46	0.40
3:L:200:SER:O	3:L:237:ALA:CB	2.69	0.40
3:L:241:ARG:HH11	3:L:241:ARG:HG2	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:139:LEU:O	4:M:140:VAL:HG22	2.20	0.40
4:M:187:ASP:O	4:M:368:ILE:HG21	2.21	0.40
4:M:224:LEU:HB2	4:M:348:LEU:HD22	2.03	0.40
5:J:65:LEU:O	5:J:68:GLU:N	2.51	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
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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:K:276:ASP:O	6:K:282:ASP:CB	2.68	0.40
6:K:390:ASN:O	6:K:391:ARG:HB3	2.22	0.40
6:K:395:LEU:HD23	6:K:395:LEU:HA	1.84	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
8:O:103:LYS:C	8:O:105:LYS:H	2.29	0.40
9:P:154:GLU:C	9:P:156:ASN:N	2.79	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:HD23	10:Q:335:LEU:HA	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
11:R:112:CYS:C	11:R:115:GLY:H	2.29	0.40
11:R:214:MET:CE	11:R:219:PHE:HB2	2.50	0.40
12:S:504:ASP:O	12:S:505:LEU:CB	2.69	0.40
13:T:303:ALA:O	13:T:307:GLY:N	2.54	0.40
14:U:101:LEU:C	14:U:102:HIS:CG	2.98	0.40
15:V:96:LEU:HD22	15:V:100:LYS:HZ1	1.86	0.40
16:W:6:THR:HG22	16:W:7:MET:N	2.37	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
20:i:194:LEU:HA	20:i:194:LEU:HD23	1.77	0.40
2:v:183:GLN:HB3	2:v:343:PHE:CE1	2.56	0.40
1:w:230:THR:HG23	1:w:354:PRO:O	2.21	0.40
1:w:295:TYR:O	1:w:296:ASP:C	2.64	0.40
1:w:387:LYS:HB2	1:w:390:LEU:HD22	1.96	0.40
5:x:173:GLU:O	5:x:177:ALA:HB3	2.20	0.40
6:y:113:VAL:CG2	6:y:139:LEU:HD12	2.49	0.40
6:y:337:ASP:O	6:y:341:LYS:HE3	2.21	0.40
6:y:390:ASN:O	6:y:391:ARG:HB3	2.22	0.40
3:z:87:LEU:CD1	3:z:107:ILE:HG21	2.51	0.40
3:z:182:LEU:CD1	3:z:185:ARG:NH1	2.83	0.40
4:0:410:ARG:C	4:0:412:ALA:H	2.29	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
10:4:84: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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:135:SER:CB	10:4:172:LEU:HD21	2.44	0.40
10:4:223:LYS:O	10:4:224:ASP:HB2	2.21	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
11:5:53:TYR:HD1	11:5:57:LEU:HD13	1.86	0.40
11:5:218:THR:O	11:5:219:PHE:C	2.65	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
14:8:25:ARG:NH1	15:9:71:ASP:OD2	2.44	0.40
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
15:9:262:GLU:C	15:9:264:LYS:N	2.77	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
18:AC:196:MET:C	18:AC:199:ASN:H	2.29	0.40
2:H:229:VAL:C	2:H:231:ASN:N	2.76	0.40
3:L:65:THR:HG21	3:L:68:LYS:HD2	2.03	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:292:PRO:HD2	6:K:374:ASP:OD1	2.21	0.40
3:L:356:ARG:CG	3:L:356:ARG:NH1	2.78	0.40
4:M:86:LEU:HD23	4:M:86:LEU:HA	1.66	0.40
4:M:197:GLU:CD	4:M:350:ARG:NH2	2.80	0.40
4:M:337:ILE:O	4:M:338:LEU:C	2.63	0.40
4:M:399:VAL:N	4:M:427:VAL:HG11	2.36	0.40
4:M:438:TYR:HH	23:l:20:ARG:HA	1.85	0.40
5:J:66:LEU:C	6:K:136:SER:OG	2.65	0.40
5:J:80:MET:HE1	5:J:96:VAL:HG11	2.02	0.40
5:J:151:ILE:HG23	33:J:501:ADP:N6	2.36	0.40
6:K:339:ARG:O	6:K:340:GLN:C	2.63	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
7:N:214:ILE:HA	7:N:217:CYS:HB3	2.04	0.40
7:N:406:ALA:C	7:N:408:LEU:N	2.77	0.40
7:N:408:LEU:HB2	7:N:423:MET:HE1	2.03	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
7:N:766:PHE:O	7:N:767:THR:C	2.65	0.40
7:N:809:SER:C	7:N:812:ALA:H	2.29	0.40
8:O:216:LEU:HD12	8:O:217:LEU:HG	2.03	0.40
9:P:317:TRP:CE3	9:P:317:TRP:CA	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:P:317:TRP:CE2	9:P:321:VAL:CG2	3.05	0.40
10:Q:276:ALA:O	10:Q:278:ARG:CA	2.67	0.40
10:Q:302:PHE:CZ	10:Q:326:LEU:HB3	2.56	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:303:ALA:O	11:R:304:TYR:C	2.64	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
14:U:242:LEU:C	14:U:244:GLU:N	2.79	0.40
15:V:51:MET:HE3	15:V:51:MET:HB2	1.90	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
20:C:204:GLU:OE2	20:C:226:LYS:HE2	2.21	0.40
32:g:92:LEU:HD21	32:g:110:MET:SD	2.61	0.40
22:k:96:LEU:CD2	29:r:58:GLU:HB3	2.52	0.40
24:m:189:LYS:HE2	24:m:235:GLY:O	2.22	0.40
26:o:70:LEU:HD23	26:o:70:LEU:HA	1.86	0.40
31:t:63:THR:OG1	32:u:94:ARG:NH2	2.54	0.40
31:t:99:ARG:HG3	31:t:104:TYR:CE2	2.56	0.40
2:v:344:SER:O	2:v:346:PRO:CD	2.70	0.40
1:w:190:LEU:HA	1:w:190:LEU:HD23	1.84	0.40
1:w:369:THR:OG1	1:w:380:LEU:HD21	2.21	0.40
5:x:151:ILE:HG23	33:x:501:ADP:N6	2.36	0.40
6:y:93:LEU:CG	6:y:102:ILE:O	2.70	0.40
6:y:143:LEU:HD13	6:y:143:LEU:HA	1.87	0.40
6:y:170:MET:HB3	6:y:174:LYS:HG3	2.02	0.40
6:y:335:LEU:C	6:y:336:PRO:O	2.56	0.40
6:y:354:LEU:CD2	6:y:399:PHE:CZ	2.96	0.40
3:z:55:GLN:NE2	3:z:108:MET:SD	2.95	0.40
3:z:223:ARG:HG3	3:z:223:ARG:HH11	1.85	0.40
3:z:312:ILE:CD1	33:z:401:ADP:HN62	2.33	0.40
3:z:351:GLY:O	3:z:354:ALA:HB3	2.21	0.40
3:z:352:MET:C	3:z:356:ARG:HG3	2.43	0.40
4:0:143:GLU:C	4:0:145:LEU:H	2.30	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
7:1:486:MET:SD	7:1:761:VAL:HG21	2.61	0.40
7:1:604:HIS:O	7:1:607:VAL:HB	2.21	0.40
8:2:216:LEU:HD12	8:2:217:LEU:HG	2.03	0.40
10:4:370:LEU:O	11:5:233:ARG:HD3	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:4:401:LEU:CD2	11:5:369:THR:HA	2.46	0.40
10:4:416:ASN:OD1	10:4:416:ASN:N	2.54	0.40
11:5:170:GLU:CG	11:5:171:GLY:H	2.35	0.40
13:7:179:LYS:HB3	13:7:182:LEU:HB3	2.03	0.40
14:8:72:HIS:HB3	14:8:115:TYR:OH	2.21	0.40
14:8:108:ILE:O	14:8:111:LEU:N	2.55	0.40
14:8:206:LEU:O	14:8:207:ASP:C	2.64	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
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
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
2:H:208:PRO:HG2	2:H:316:LYS:HZ2	1.81	0.40
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
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
7:N:383:ASP:O	7:N:384:GLN:C	2.64	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
8:O:346:ILE:HA	8:O:349:MET:HE2	2.04	0.40
10:Q:85:ALA:O	10:Q:89:VAL:CB	2.70	0.40
10:Q:394:ASP:O	10:Q:398:GLU:HG3	2.22	0.40
10:Q:401:LEU:CD2	11:R:369:THR:HA	2.46	0.40
11:R:292:TYR:CD1	11:R:292:TYR:C	2.99	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
13:T:251:ILE:C	13:T:253:ALA:N	2.77	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

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:W:85:THR:O	16:W:86:PHE:C	2.65	0.40
18:Z:196:MET:C	18:Z:199:ASN:H	2.29	0.40
18:Z:713:PHE:O	18:Z:714:SER:C	2.65	0.40
18:Z:761:MET:O	18:Z:765:ALA:N	2.39	0.40
21:D:197:LEU:HD12	21:D:197:LEU:HA	1.86	0.40
23:F:29:GLU:OE2	2:v:379:ASN:ND2	2.51	0.40
27:b:35:HIS:CG	27:b:56:THR:HG21	2.56	0.40
29:d:31:ASP:OD1	29:d:31:ASP:N	2.55	0.40
29:d:196:PHE:O	29:d:198:LYS:N	2.54	0.40
21:j:115:CYS:HB3	21:j:154:GLY:O	2.21	0.40
24:m:33:SER:OG	24:m:62:LYS:HE2	2.22	0.40
25:n:152:ASP:HB2	25:n:153:PRO:HD2	2.03	0.40
26:o:104:ASP:HA	26:o:105:PRO:HD3	1.95	0.40
27:p:29:LYS:NZ	28:q:151:GLU:OE2	2.34	0.40
31:t:79:ASN:O	31:t:81:LYS:HG2	2.22	0.40
2:v:332:MET:C	2:v:333:ARG:O	2.64	0.40
1:w:106:PRO:HB2	5:x:97:VAL:CG1	2.20	0.40
1:w:122:ILE:CD1	1:w:130:GLU:O	2.69	0.40
1:w:225:TYR:OH	1:w:352:GLU:HG2	2.21	0.40
1:w:293:LYS:HD3	1:w:293:LYS:HA	1.60	0.40
1:w:371:ARG:O	5:x:179:GLY:HA3	2.22	0.40
1:w:374:LEU:HD23	1:w:374:LEU:C	2.47	0.40
5:x:82:LYS:C	5:x:83:LYS:HG3	2.46	0.40
5:x:142:LYS:HE3	6:y:297:ASP:OD2	2.22	0.40
5:x:157:GLN:HA	5:x:315:ILE:HG21	2.04	0.40
5:x:174:LEU:HD23	5:x:174:LEU:HA	1.93	0.40
5:x:184:LYS:HG3	5:x:280:LEU:CD1	2.48	0.40
5:x:207:THR:HG22	5:x:209:CYS:HB2	2.02	0.40
5:x:246:ILE:O	5:x:292:ILE:N	2.55	0.40
6:y:87:LEU:CB	6:y:132:LEU:O	2.65	0.40
6:y:337:ASP:CG	6:y:338:ARG:H	2.29	0.40
6:y:394:VAL:HG12	6:y:395:LEU:O	2.21	0.40
3:z:55:GLN:NE2	3:z:108:MET:HG3	2.37	0.40
3:z:97:ARG:CZ	3:z:112:PRO:O	2.69	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
8:2:103:LYS:C	8:2:105:LYS:H	2.29	0.40
8:2:339:ARG:C	8:2:340:VAL:HG13	2.45	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:3:76:GLU:CG	9:3:77:ALA:N	2.84	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
10:4:148:HIS:CE1	10:4:152:GLN:CD	2.98	0.40
10:4:332:GLU:OE2	10:4:332:GLU:HA	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
16:AA:66:PRO:C	16:AA:67:ASP:CG	2.87	0.40
18:AC:383:ALA:O	18:AC:384:ALA:CB	2.65	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	8
1	w	355/440 (81%)	255 (72%)	71 (20%)	29 (8%)	0	8
2	H	376/433 (87%)	248 (66%)	91 (24%)	37 (10%)	0	6
2	v	376/433 (87%)	249 (66%)	88 (23%)	39 (10%)	0	5
3	L	373/389 (96%)	264 (71%)	72 (19%)	37 (10%)	0	6
3	z	373/389 (96%)	263 (70%)	73 (20%)	37 (10%)	0	6
4	0	372/439 (85%)	255 (68%)	74 (20%)	43 (12%)	0	4
4	M	372/439 (85%)	255 (68%)	74 (20%)	43 (12%)	0	4
5	J	354/406 (87%)	255 (72%)	66 (19%)	33 (9%)	0	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
5	x	354/406 (87%)	255 (72%)	66 (19%)	33 (9%)	0 6
6	K	378/418 (90%)	266 (70%)	70 (18%)	42 (11%)	0 5
6	y	378/418 (90%)	266 (70%)	70 (18%)	42 (11%)	0 5
7	1	811/953 (85%)	607 (75%)	176 (22%)	28 (4%)	3 23
7	N	811/953 (85%)	607 (75%)	176 (22%)	28 (4%)	3 23
8	2	368/376 (98%)	287 (78%)	61 (17%)	20 (5%)	1 14
8	O	368/376 (98%)	287 (78%)	61 (17%)	20 (5%)	1 14
9	3	401/456 (88%)	338 (84%)	51 (13%)	12 (3%)	3 25
9	P	401/456 (88%)	338 (84%)	51 (13%)	12 (3%)	3 25
10	4	419/422 (99%)	331 (79%)	58 (14%)	30 (7%)	1 9
10	Q	419/422 (99%)	330 (79%)	58 (14%)	31 (7%)	1 9
11	5	374/389 (96%)	295 (79%)	54 (14%)	25 (7%)	1 11
11	R	374/389 (96%)	295 (79%)	54 (14%)	25 (7%)	1 11
12	6	413/525 (79%)	354 (86%)	42 (10%)	17 (4%)	2 19
12	S	413/525 (79%)	354 (86%)	42 (10%)	17 (4%)	2 19
13	7	254/350 (73%)	195 (77%)	43 (17%)	16 (6%)	1 12
13	T	254/350 (73%)	195 (77%)	43 (17%)	16 (6%)	1 12
14	8	279/324 (86%)	222 (80%)	42 (15%)	15 (5%)	1 14
14	U	279/324 (86%)	222 (80%)	42 (15%)	15 (5%)	1 14
15	9	253/310 (82%)	209 (83%)	32 (13%)	12 (5%)	2 17
15	V	253/310 (82%)	209 (83%)	32 (13%)	12 (5%)	2 17
16	AA	191/377 (51%)	145 (76%)	35 (18%)	11 (6%)	1 13
16	W	191/377 (51%)	145 (76%)	35 (18%)	11 (6%)	1 13
17	AB	55/70 (79%)	37 (67%)	10 (18%)	8 (14%)	0 3
17	Y	55/70 (79%)	37 (67%)	10 (18%)	8 (14%)	0 3
18	AC	722/908 (80%)	557 (77%)	116 (16%)	49 (7%)	1 10
18	Z	722/908 (80%)	558 (77%)	116 (16%)	48 (7%)	1 11
19	B	242/246 (98%)	230 (95%)	8 (3%)	4 (2%)	7 35
19	h	242/246 (98%)	229 (95%)	13 (5%)	0	100 100
20	C	229/234 (98%)	204 (89%)	23 (10%)	2 (1%)	14 47
20	i	229/234 (98%)	206 (90%)	21 (9%)	2 (1%)	14 47

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
21	D	248/261 (95%)	234 (94%)	13 (5%)	1 (0%)	30	62
21	j	248/261 (95%)	236 (95%)	11 (4%)	1 (0%)	30	62
22	E	241/248 (97%)	221 (92%)	15 (6%)	5 (2%)	5	31
22	k	241/248 (97%)	221 (92%)	15 (6%)	5 (2%)	5	31
23	F	232/241 (96%)	217 (94%)	13 (6%)	2 (1%)	14	47
23	l	232/241 (96%)	214 (92%)	17 (7%)	1 (0%)	30	62
24	G	236/263 (90%)	224 (95%)	9 (4%)	3 (1%)	9	39
24	m	236/263 (90%)	224 (95%)	9 (4%)	3 (1%)	9	39
25	X	241/255 (94%)	234 (97%)	4 (2%)	3 (1%)	10	41
25	n	241/255 (94%)	235 (98%)	4 (2%)	2 (1%)	16	49
26	a	200/239 (84%)	195 (98%)	4 (2%)	1 (0%)	24	57
26	o	200/239 (84%)	195 (98%)	4 (2%)	1 (0%)	24	57
27	b	218/277 (79%)	209 (96%)	8 (4%)	1 (0%)	24	57
27	p	218/277 (79%)	208 (95%)	8 (4%)	2 (1%)	14	47
28	c	202/205 (98%)	191 (95%)	9 (4%)	2 (1%)	12	44
28	q	202/205 (98%)	191 (95%)	9 (4%)	2 (1%)	12	44
29	d	197/201 (98%)	187 (95%)	9 (5%)	1 (0%)	24	57
29	r	197/201 (98%)	187 (95%)	9 (5%)	1 (0%)	24	57
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%)	24	57
32	u	215/264 (81%)	206 (96%)	8 (4%)	1 (0%)	24	57
All	All	19717/22846 (86%)	16137 (82%)	2604 (13%)	976 (5%)	3	15

All (976) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	I	165	ASP
1	I	207	HIS
1	I	220	LYS
1	I	277	HIS
1	I	278	ALA

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Mol	Chain	Res	Type
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
5	J	89	VAL
5	J	90	HIS

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Mol	Chain	Res	Type
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
7	N	881	PRO
7	N	905	PRO

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Mol	Chain	Res	Type
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
13	T	312	PRO
13	T	319	ALA

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Mol	Chain	Res	Type
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
25	X	207	LYS
28	c	156	PRO

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Mol	Chain	Res	Type
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
5	x	352	PRO
6	y	85	ILE

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Mol	Chain	Res	Type
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
4	0	345	SER
4	0	378	ASP

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Mol	Chain	Res	Type
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
12	6	279	GLN
12	6	321	ALA

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Mol	Chain	Res	Type
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
18	AC	810	ILE
18	AC	815	HIS

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Mol	Chain	Res	Type
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
6	K	304	ASN
6	K	368	ASP

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Mol	Chain	Res	Type
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
18	Z	365	VAL
18	Z	455	VAL

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Mol	Chain	Res	Type
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
3	z	131	SER
3	z	208	ILE

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Mol	Chain	Res	Type
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
12	6	319	HIS
12	6	466	ILE

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Mol	Chain	Res	Type
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
3	L	339	ASN
4	M	122	ALA

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Mol	Chain	Res	Type
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
15	V	150	SER
16	W	77	THR

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Mol	Chain	Res	Type
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
5	x	308	PRO
5	x	312	ASP

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Mol	Chain	Res	Type
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
16	AA	77	THR
17	AB	39	TRP

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Mol	Chain	Res	Type
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
13	T	179	LYS
13	T	219	ASP

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Mol	Chain	Res	Type
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
11	5	156	LEU
11	5	255	ALA

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Mol	Chain	Res	Type
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
13	T	328	THR
14	U	179	ILE

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Mol	Chain	Res	Type
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
3	L	116	ASP
3	L	319	PRO

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Mol	Chain	Res	Type
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
16	W	22	LEU
18	Z	604	GLY

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Mol	Chain	Res	Type
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
25	n	216	VAL
26	o	30	VAL

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Mol	Chain	Res	Type
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
3	z	292	PRO
3	z	363	VAL

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Mol	Chain	Res	Type
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 (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	I	291/385 (76%)	224 (77%)	67 (23%)	1 5
1	w	291/385 (76%)	219 (75%)	72 (25%)	1 4
2	H	298/372 (80%)	230 (77%)	68 (23%)	1 5
2	v	297/372 (80%)	228 (77%)	69 (23%)	1 5
3	L	298/341 (87%)	234 (78%)	64 (22%)	1 6
3	z	298/341 (87%)	234 (78%)	64 (22%)	1 6
4	0	296/379 (78%)	231 (78%)	65 (22%)	1 5
4	M	296/379 (78%)	231 (78%)	65 (22%)	1 5
5	J	310/352 (88%)	235 (76%)	75 (24%)	1 4
5	x	310/352 (88%)	235 (76%)	75 (24%)	1 4
6	K	333/366 (91%)	261 (78%)	72 (22%)	1 6
6	y	333/366 (91%)	260 (78%)	73 (22%)	1 5
7	1	376/816 (46%)	343 (91%)	33 (9%)	9 32
7	N	376/816 (46%)	344 (92%)	32 (8%)	10 34
8	2	142/336 (42%)	122 (86%)	20 (14%)	3 18
8	O	141/336 (42%)	121 (86%)	20 (14%)	3 18
9	3	201/416 (48%)	178 (89%)	23 (11%)	5 24
9	P	202/416 (49%)	178 (88%)	24 (12%)	5 23
10	4	250/362 (69%)	207 (83%)	43 (17%)	2 12
10	Q	249/362 (69%)	206 (83%)	43 (17%)	2 11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
11	5	229/344 (67%)	205 (90%)	24 (10%)	6	27
11	R	228/344 (66%)	205 (90%)	23 (10%)	7	28
12	6	164/452 (36%)	154 (94%)	10 (6%)	17	43
12	S	163/452 (36%)	153 (94%)	10 (6%)	17	43
13	7	108/294 (37%)	89 (82%)	19 (18%)	2	11
13	T	109/294 (37%)	90 (83%)	19 (17%)	2	11
14	8	211/295 (72%)	188 (89%)	23 (11%)	6	26
14	U	212/295 (72%)	188 (89%)	24 (11%)	5	25
15	9	218/268 (81%)	184 (84%)	34 (16%)	2	15
15	V	219/268 (82%)	185 (84%)	34 (16%)	2	15
16	AA	111/312 (36%)	104 (94%)	7 (6%)	16	42
16	W	111/312 (36%)	103 (93%)	8 (7%)	13	38
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%)	182 (94%)	11 (6%)	18	45
19	h	195/210 (93%)	183 (94%)	12 (6%)	16	43
20	C	175/191 (92%)	166 (95%)	9 (5%)	21	48
20	i	177/191 (93%)	164 (93%)	13 (7%)	13	38
21	D	194/221 (88%)	183 (94%)	11 (6%)	18	45
21	j	193/221 (87%)	183 (95%)	10 (5%)	21	47
22	E	152/211 (72%)	140 (92%)	12 (8%)	11	36
22	k	142/211 (67%)	132 (93%)	10 (7%)	14	39
23	F	190/203 (94%)	185 (97%)	5 (3%)	40	62
23	l	191/203 (94%)	186 (97%)	5 (3%)	40	62
24	G	198/224 (88%)	191 (96%)	7 (4%)	32	57
24	m	198/224 (88%)	186 (94%)	12 (6%)	17	43
25	X	193/212 (91%)	186 (96%)	7 (4%)	31	57
25	n	193/212 (91%)	183 (95%)	10 (5%)	21	47
26	a	155/181 (86%)	150 (97%)	5 (3%)	34	59
26	o	155/181 (86%)	151 (97%)	4 (3%)	40	62
27	b	177/228 (78%)	168 (95%)	9 (5%)	21	48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
27	p	177/228 (78%)	169 (96%)	8 (4%)	24 50
28	c	172/174 (99%)	161 (94%)	11 (6%)	16 42
28	q	172/174 (99%)	162 (94%)	10 (6%)	18 44
29	d	164/171 (96%)	158 (96%)	6 (4%)	30 56
29	r	164/171 (96%)	159 (97%)	5 (3%)	36 60
30	e	153/202 (76%)	149 (97%)	4 (3%)	40 62
30	s	154/202 (76%)	149 (97%)	5 (3%)	34 59
31	f	175/199 (88%)	169 (97%)	6 (3%)	32 57
31	t	175/199 (88%)	170 (97%)	5 (3%)	37 60
32	g	175/215 (81%)	166 (95%)	9 (5%)	21 48
32	u	175/215 (81%)	166 (95%)	9 (5%)	21 48
All	All	12610/17990 (70%)	11078 (88%)	1532 (12%)	7 22

All (1532) 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	116	ILE
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	175	LYS
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
1	I	220	LYS
1	I	235	LEU
1	I	237	LYS

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Mol	Chain	Res	Type
1	I	239	VAL
1	I	242	GLN
1	I	255	LEU
1	I	257	GLN
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	290	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	309	MET
1	I	310	LEU
1	I	312	LEU
1	I	313	LEU
1	I	315	GLN
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	339	PRO
1	I	342	ILE
1	I	343	ARG
1	I	344	PRO
1	I	346	ARG
1	I	348	ASP
1	I	350	LYS
1	I	355	LEU
1	I	365	PHE
1	I	366	GLN
1	I	373	THR
1	I	385	MET

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Mol	Chain	Res	Type
1	I	399	CYS
1	I	408	ARG
1	I	410	ARG
2	H	93	LEU
2	H	103	ASN
2	H	110	LYS
2	H	114	ASN
2	H	125	LEU
2	H	135	GLU
2	H	148	GLN
2	H	150	HIS
2	H	151	ILE
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	199	GLU
2	H	200	ARG
2	H	204	LEU
2	H	213	LEU
2	H	220	THR
2	H	229	VAL
2	H	234	ASP
2	H	239	ARG
2	H	247	GLN
2	H	252	GLU
2	H	260	LEU
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	287	ASP
2	H	294	GLU
2	H	306	LEU
2	H	307	ASP
2	H	312	ARG
2	H	314	ASN

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Mol	Chain	Res	Type
2	H	315	ILE
2	H	319	MET
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	372	LEU
2	H	373	LEU
2	H	375	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	424	SER
2	H	430	MET
2	H	431	THR
3	L	71	VAL
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	111	LEU
3	L	113	ARG
3	L	114	GLU
3	L	116	ASP
3	L	118	LEU

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Mol	Chain	Res	Type
3	L	120	TYR
3	L	122	MET
3	L	123	SER
3	L	132	TYR
3	L	134	GLU
3	L	138	LEU
3	L	153	LEU
3	L	158	LEU
3	L	180	LYS
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	267	PHE
3	L	268	ASP
3	L	271	HIS
3	L	272	ARG
3	L	281	ARG
3	L	316	HIS
3	L	322	LYS
3	L	329	GLU
3	L	334	LEU
3	L	344	ARG

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Mol	Chain	Res	Type
3	L	356	ARG
3	L	358	ASP
3	L	363	VAL
3	L	364	GLN
3	L	368	MET
3	L	372	ARG
3	L	383	LYS
3	L	385	ASP
3	L	389	VAL
4	M	79	LYS
4	M	81	LYS
4	M	83	ASN
4	M	88	TYR
4	M	89	LEU
4	M	93	VAL
4	M	95	GLU
4	M	96	LEU
4	M	134	LEU
4	M	136	VAL
4	M	139	LEU
4	M	149	ASP
4	M	163	THR
4	M	166	THR
4	M	168	TYR
4	M	170	SER
4	M	176	GLU
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	238	ARG
4	M	261	ILE
4	M	266	LYS
4	M	272	PHE
4	M	289	ASP
4	M	291	ILE

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Mol	Chain	Res	Type
4	M	295	ARG
4	M	296	PHE
4	M	299	GLU
4	M	304	ARG
4	M	306	VAL
4	M	307	GLN
4	M	310	MET
4	M	317	LEU
4	M	318	ASP
4	M	320	PHE
4	M	323	ASN
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	373	MET
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

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Mol	Chain	Res	Type
5	J	61	GLU
5	J	62	GLU
5	J	65	LEU
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	118	ASN
5	J	130	LYS
5	J	134	LEU
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	162	LYS
5	J	173	GLU
5	J	174	LEU
5	J	178	LEU
5	J	184	LYS
5	J	194	THR
5	J	198	LEU
5	J	199	LEU
5	J	201	ARG
5	J	206	HIS
5	J	207	THR
5	J	210	THR
5	J	217	SER
5	J	224	ILE
5	J	226	GLU
5	J	229	ARG
5	J	230	MET
5	J	232	ARG
5	J	237	MET
5	J	248	MET
5	J	249	ASP

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Mol	Chain	Res	Type
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	286	THR
5	J	287	LYS
5	J	289	ILE
5	J	290	LYS
5	J	291	VAL
5	J	293	MET
5	J	298	ILE
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
5	J	349	GLU
5	J	375	ARG
5	J	392	GLN
6	K	40	LEU
6	K	45	LYS
6	K	51	LEU
6	K	54	LEU
6	K	58	GLU
6	K	64	GLU
6	K	65	GLN
6	K	73	LEU
6	K	78	GLU
6	K	82	ILE
6	K	87	LEU
6	K	93	LEU
6	K	94	GLU
6	K	115	ILE
6	K	116	LEU
6	K	119	ILE
6	K	121	ARG
6	K	124	LEU
6	K	139	LEU

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Mol	Chain	Res	Type
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	167	ILE
6	K	170	MET
6	K	171	ASP
6	K	185	LEU
6	K	189	GLU
6	K	192	LYS
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	242	GLU
6	K	245	ARG
6	K	266	GLU
6	K	267	ILE
6	K	274	ARG
6	K	278	GLN
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	332	GLU
6	K	335	LEU
6	K	345	PHE
6	K	351	LYS

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Mol	Chain	Res	Type
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	408	LYS
6	K	415	GLU
6	K	418	LYS
7	N	17	PRO
7	N	119	PRO
7	N	123	LYS
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
7	N	630	PRO
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

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Mol	Chain	Res	Type
7	N	933	PRO
8	O	5	PRO
8	O	19	PRO
8	O	45	VAL
8	O	73	PRO
8	O	90	PRO
8	O	146	PRO
8	O	183	VAL
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	368	GLU
8	O	374	ILE
9	P	48	LEU
9	P	49	SER
9	P	50	LEU
9	P	52	LYS
9	P	55	ARG
9	P	70	VAL
9	P	119	PRO
9	P	149	LEU
9	P	159	VAL
9	P	209	ILE
9	P	254	PRO
9	P	300	PRO
9	P	317	TRP
9	P	318	SER
9	P	351	TRP
9	P	373	ILE
9	P	383	ASP
9	P	398	VAL
9	P	401	THR
9	P	412	ILE
9	P	436	MET

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Mol	Chain	Res	Type
9	P	444	HIS
9	P	448	LYS
9	P	451	MET
10	Q	82	LYS
10	Q	106	GLU
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	185	LYS
10	Q	191	THR
10	Q	194	ARG
10	Q	206	LEU
10	Q	207	GLN
10	Q	221	GLU
10	Q	222	GLU
10	Q	223	LYS
10	Q	241	SER
10	Q	242	ILE
10	Q	244	SER
10	Q	249	THR
10	Q	256	LEU
10	Q	257	CYS
10	Q	258	LYS
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
10	Q	392	PRO
10	Q	393	VAL
10	Q	401	LEU

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Mol	Chain	Res	Type
10	Q	403	THR
10	Q	409	LYS
10	Q	416	ASN
10	Q	417	LYS
11	R	92	GLU
11	R	134	LEU
11	R	173	ASP
11	R	179	ARG
11	R	180	LEU
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	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	367	GLN
11	R	371	LYS
11	R	372	LYS
11	R	379	ARG
12	S	296	LYS
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	469	THR
12	S	479	ARG
12	S	480	ILE
13	T	107	PRO
13	T	110	SER
13	T	122	VAL
13	T	130	PRO
13	T	137	THR

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Mol	Chain	Res	Type
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	335	LEU
13	T	337	LYS
13	T	342	TYR
14	U	6	VAL
14	U	33	LYS
14	U	58	PHE
14	U	70	LEU
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	184	VAL
14	U	196	HIS
14	U	199	LYS
14	U	201	LEU
14	U	209	ARG
14	U	252	LYS
14	U	266	ILE
14	U	275	LEU
14	U	279	LYS
14	U	282	ASN
15	V	46	ARG
15	V	50	PRO
15	V	51	MET
15	V	96	LEU

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Mol	Chain	Res	Type
15	V	98	MET
15	V	104	ARG
15	V	105	PRO
15	V	115	HIS
15	V	118	PHE
15	V	136	LEU
15	V	139	ARG
15	V	150	SER
15	V	208	ARG
15	V	209	LYS
15	V	212	LEU
15	V	227	GLU
15	V	229	LEU
15	V	231	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	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
19	B	78	CYS
19	B	107	TYR
19	B	108	GLU

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Mol	Chain	Res	Type
19	B	114	LEU
19	B	126	THR
19	B	132	ARG
19	B	166	THR
19	B	221	THR
19	B	231	THR
19	B	234	GLU
20	C	19	VAL
20	C	43	VAL
20	C	53	SER
20	C	58	GLU
20	C	74	VAL
20	C	132	SER
20	C	162	MET
20	C	178	ASN
20	C	189	THR
21	D	11	ILE
21	D	35	LEU
21	D	44	LEU
21	D	76	VAL
21	D	99	LEU
21	D	164	ILE
21	D	180	LYS
21	D	192	LEU
21	D	197	LEU
21	D	218	ARG
21	D	220	ASN
22	E	5	ARG
22	E	33	VAL
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

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Mol	Chain	Res	Type
23	F	148	GLU
23	F	221	GLN
24	G	38	LEU
24	G	50	LYS
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	90	ILE
25	X	144	ASP
25	X	181	MET
25	X	187	ARG
25	X	200	VAL
26	a	22	THR
26	a	46	SER
26	a	139	VAL
26	a	150	GLU
26	a	153	LEU
27	b	6	VAL
27	b	56	THR
27	b	77	VAL
27	b	132	LEU
27	b	187	ARG
27	b	194	LYS
27	b	198	ARG
27	b	201	ARG
27	b	213	THR
28	c	33	GLN
28	c	34	MET
28	c	36	THR
28	c	49	LEU
28	c	116	THR
28	c	126	LEU
28	c	175	VAL
28	c	189	ILE
28	c	191	GLU
28	c	192	LYS
28	c	193	ASP
29	d	26	VAL

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Mol	Chain	Res	Type
29	d	27	GLN
29	d	45	LEU
29	d	47	VAL
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	65	THR
31	f	76	LYS
31	f	136	LYS
31	f	164	VAL
31	f	166	LEU
32	g	37	ARG
32	g	49	THR
32	g	69	GLN
32	g	86	ARG
32	g	94	ARG
32	g	159	VAL
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	126	THR
19	h	132	ARG
19	h	166	THR
19	h	205	VAL
19	h	221	THR
19	h	231	THR
19	h	234	GLU
20	i	19	VAL
20	i	43	VAL
20	i	51	GLN
20	i	52	LYS
20	i	74	VAL
20	i	132	SER

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Mol	Chain	Res	Type
20	i	178	ASN
20	i	182	GLU
20	i	183	LEU
20	i	192	LEU
20	i	195	LYS
20	i	201	GLN
20	i	227	ASP
21	j	11	ILE
21	j	35	LEU
21	j	44	LEU
21	j	76	VAL
21	j	99	LEU
21	j	164	ILE
21	j	180	LYS
21	j	192	LEU
21	j	218	ARG
21	j	220	ASN
22	k	5	ARG
22	k	33	VAL
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	36	THR
23	l	135	ARG
23	l	148	GLU
23	l	168	ARG
23	l	208	GLU
24	m	16	GLN
24	m	38	LEU
24	m	51	ARG
24	m	60	GLN
24	m	77	LEU
24	m	83	LEU
24	m	101	ARG
24	m	196	ARG
24	m	202	GLU
24	m	211	SER

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Mol	Chain	Res	Type
24	m	236	LEU
24	m	239	ARG
25	n	39	ILE
25	n	41	CYS
25	n	42	LYS
25	n	56	LYS
25	n	90	ILE
25	n	129	ARG
25	n	144	ASP
25	n	174	THR
25	n	181	MET
25	n	200	VAL
26	o	22	THR
26	o	139	VAL
26	o	150	GLU
26	o	153	LEU
27	p	6	VAL
27	p	56	THR
27	p	65	LEU
27	p	77	VAL
27	p	132	LEU
27	p	198	ARG
27	p	201	ARG
27	p	213	THR
28	q	34	MET
28	q	36	THR
28	q	49	LEU
28	q	116	THR
28	q	126	LEU
28	q	175	VAL
28	q	189	ILE
28	q	191	GLU
28	q	192	LYS
28	q	193	ASP
29	r	26	VAL
29	r	27	GLN
29	r	45	LEU
29	r	47	VAL
29	r	84	THR
30	s	8	PHE
30	s	73	ARG
30	s	87	VAL

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Mol	Chain	Res	Type
30	s	115	ASP
30	s	138	VAL
31	t	6	VAL
31	t	65	THR
31	t	136	LYS
31	t	164	VAL
31	t	166	LEU
32	u	37	ARG
32	u	49	THR
32	u	69	GLN
32	u	86	ARG
32	u	94	ARG
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
2	v	114	ASN
2	v	125	LEU
2	v	135	GLU
2	v	148	GLN
2	v	150	HIS
2	v	151	ILE
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	199	GLU
2	v	200	ARG
2	v	204	LEU
2	v	213	LEU
2	v	220	THR
2	v	229	VAL
2	v	234	ASP
2	v	239	ARG
2	v	247	GLN

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Mol	Chain	Res	Type
2	v	252	GLU
2	v	260	LEU
2	v	265	ARG
2	v	276	GLU
2	v	277	ILE
2	v	278	ASP
2	v	284	ARG
2	v	287	ASP
2	v	294	GLU
2	v	306	LEU
2	v	307	ASP
2	v	312	ARG
2	v	314	ASN
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
2	v	342	GLU
2	v	345	LEU
2	v	346	PRO
2	v	347	ASP
2	v	353	HIS
2	v	355	PHE
2	v	358	HIS
2	v	369	ARG
2	v	372	LEU
2	v	375	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	424	SER
2	v	430	MET

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Mol	Chain	Res	Type
2	v	431	THR
1	w	103	ARG
1	w	105	THR
1	w	113	GLU
1	w	116	ILE
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	175	LYS
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	239	VAL
1	w	242	GLN
1	w	255	LEU
1	w	257	GLN
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	290	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	309	MET

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Mol	Chain	Res	Type
1	w	310	LEU
1	w	312	LEU
1	w	313	LEU
1	w	315	GLN
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	339	PRO
1	w	342	ILE
1	w	343	ARG
1	w	344	PRO
1	w	346	ARG
1	w	348	ASP
1	w	350	LYS
1	w	355	LEU
1	w	365	PHE
1	w	366	GLN
1	w	373	THR
1	w	385	MET
1	w	399	CYS
1	w	408	ARG
1	w	409	GLU
1	w	410	ARG
1	w	412	MET
1	w	414	VAL
1	w	415	THR
1	w	423	LYS
5	x	25	LEU
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

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Mol	Chain	Res	Type
5	x	62	GLU
5	x	65	LEU
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	118	ASN
5	x	130	LYS
5	x	134	LEU
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	162	LYS
5	x	173	GLU
5	x	174	LEU
5	x	178	LEU
5	x	184	LYS
5	x	194	THR
5	x	198	LEU
5	x	199	LEU
5	x	201	ARG
5	x	206	HIS
5	x	207	THR
5	x	210	THR
5	x	217	SER
5	x	224	ILE
5	x	226	GLU
5	x	229	ARG
5	x	230	MET
5	x	232	ARG
5	x	237	MET
5	x	248	MET
5	x	249	ASP
5	x	270	GLN

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Mol	Chain	Res	Type
5	x	271	ARG
5	x	273	MET
5	x	275	GLU
5	x	279	GLN
5	x	280	LEU
5	x	286	THR
5	x	287	LYS
5	x	289	ILE
5	x	290	LYS
5	x	291	VAL
5	x	293	MET
5	x	298	ILE
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	349	GLU
5	x	375	ARG
5	x	392	GLN
6	y	40	LEU
6	y	45	LYS
6	y	51	LEU
6	y	54	LEU
6	y	58	GLU
6	y	64	GLU
6	y	65	GLN
6	y	73	LEU
6	y	78	GLU
6	y	82	ILE
6	y	87	LEU
6	y	93	LEU
6	y	94	GLU
6	y	115	ILE
6	y	116	LEU
6	y	119	ILE
6	y	121	ARG
6	y	124	LEU
6	y	139	LEU
6	y	143	LEU

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Mol	Chain	Res	Type
6	y	148	ASP
6	y	152	MET
6	y	154	LEU
6	y	159	LYS
6	y	163	MET
6	y	164	TYR
6	y	167	ILE
6	y	170	MET
6	y	171	ASP
6	y	185	LEU
6	y	189	GLU
6	y	192	LYS
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	242	GLU
6	y	245	ARG
6	y	266	GLU
6	y	267	ILE
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	332	GLU
6	y	335	LEU
6	y	345	PHE
6	y	351	LYS
6	y	352	MET

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Mol	Chain	Res	Type
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
6	y	405	THR
6	y	408	LYS
6	y	415	GLU
6	y	418	LYS
3	z	71	VAL
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	111	LEU
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	132	TYR
3	z	134	GLU
3	z	138	LEU
3	z	153	LEU
3	z	158	LEU
3	z	180	LYS
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

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Mol	Chain	Res	Type
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
3	z	254	GLN
3	z	255	ARG
3	z	257	LEU
3	z	260	LEU
3	z	267	PHE
3	z	268	ASP
3	z	271	HIS
3	z	272	ARG
3	z	281	ARG
3	z	316	HIS
3	z	322	LYS
3	z	329	GLU
3	z	334	LEU
3	z	344	ARG
3	z	356	ARG
3	z	358	ASP
3	z	363	VAL
3	z	364	GLN
3	z	368	MET
3	z	372	ARG
3	z	383	LYS
3	z	385	ASP
3	z	389	VAL
4	0	79	LYS
4	0	81	LYS
4	0	83	ASN
4	0	88	TYR
4	0	89	LEU
4	0	93	VAL
4	0	95	GLU
4	0	96	LEU
4	0	134	LEU

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Mol	Chain	Res	Type
4	0	136	VAL
4	0	139	LEU
4	0	149	ASP
4	0	163	THR
4	0	166	THR
4	0	168	TYR
4	0	170	SER
4	0	176	GLU
4	0	178	ASP
4	0	182	THR
4	0	183	GLU
4	0	187	ASP
4	0	206	MET
4	0	209	LYS
4	0	221	LYS
4	0	225	MET
4	0	231	THR
4	0	233	LYS
4	0	238	ARG
4	0	261	ILE
4	0	266	LYS
4	0	272	PHE
4	0	289	ASP
4	0	291	ILE
4	0	295	ARG
4	0	296	PHE
4	0	299	GLU
4	0	304	ARG
4	0	306	VAL
4	0	307	GLN
4	0	310	MET
4	0	317	LEU
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

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Mol	Chain	Res	Type
4	0	364	ARG
4	0	366	MET
4	0	367	GLN
4	0	369	HIS
4	0	372	LYS
4	0	373	MET
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	63	VAL
7	1	119	PRO
7	1	123	LYS
7	1	125	PRO
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	758	PRO
7	1	794	ASP
7	1	808	PRO
7	1	816	PRO

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Mol	Chain	Res	Type
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	45	VAL
8	2	73	PRO
8	2	90	PRO
8	2	146	PRO
8	2	183	VAL
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
8	2	358	THR
8	2	362	SER
8	2	363	MET
8	2	368	GLU
8	2	374	ILE
9	3	48	LEU
9	3	49	SER
9	3	50	LEU
9	3	52	LYS
9	3	55	ARG
9	3	70	VAL
9	3	119	PRO
9	3	149	LEU
9	3	159	VAL
9	3	209	ILE
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

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Mol	Chain	Res	Type
9	3	401	THR
9	3	412	ILE
9	3	436	MET
9	3	444	HIS
9	3	448	LYS
9	3	451	MET
10	4	82	LYS
10	4	106	GLU
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	185	LYS
10	4	191	THR
10	4	194	ARG
10	4	206	LEU
10	4	207	GLN
10	4	221	GLU
10	4	222	GLU
10	4	223	LYS
10	4	241	SER
10	4	242	ILE
10	4	244	SER
10	4	249	THR
10	4	256	LEU
10	4	257	CYS
10	4	258	LYS
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

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Mol	Chain	Res	Type
10	4	392	PRO
10	4	393	VAL
10	4	401	LEU
10	4	403	THR
10	4	409	LYS
10	4	416	ASN
10	4	417	LYS
11	5	50	MET
11	5	92	GLU
11	5	134	LEU
11	5	173	ASP
11	5	179	ARG
11	5	180	LEU
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	250	LEU
11	5	254	PRO
11	5	259	TYR
11	5	260	LEU
11	5	270	VAL
11	5	292	TYR
11	5	302	HIS
11	5	304	TYR
11	5	367	GLN
11	5	371	LYS
11	5	372	LYS
11	5	379	ARG
12	6	296	LYS
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	469	THR
12	6	479	ARG
12	6	480	ILE
13	7	107	PRO

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Mol	Chain	Res	Type
13	7	110	SER
13	7	122	VAL
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	335	LEU
13	7	337	LYS
13	7	342	TYR
14	8	6	VAL
14	8	33	LYS
14	8	58	PHE
14	8	88	ARG
14	8	101	LEU
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	184	VAL
14	8	196	HIS
14	8	199	LYS
14	8	201	LEU
14	8	209	ARG
14	8	252	LYS
14	8	266	ILE
14	8	275	LEU
14	8	279	LYS
14	8	282	ASN
15	9	46	ARG

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Mol	Chain	Res	Type
15	9	50	PRO
15	9	51	MET
15	9	96	LEU
15	9	98	MET
15	9	104	ARG
15	9	105	PRO
15	9	115	HIS
15	9	118	PHE
15	9	136	LEU
15	9	139	ARG
15	9	150	SER
15	9	208	ARG
15	9	209	LYS
15	9	212	LEU
15	9	227	GLU
15	9	229	LEU
15	9	231	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
15	9	277	LYS
15	9	281	LYS
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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (263) such sidechains are listed below:

Mol	Chain	Res	Type
1	I	120	HIS
1	I	181	GLN
1	I	193	GLN
1	I	195	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
1	I	366	GLN
2	H	114	ASN
2	H	148	GLN
2	H	203	ASN
2	H	231	ASN
2	H	247	GLN
2	H	293	ASN
2	H	305	GLN
2	H	322	ASN
3	L	75	ASN
3	L	225	HIS
3	L	226	GLN
3	L	262	ASN
3	L	316	HIS
4	M	243	GLN
4	M	315	ASN
4	M	325	GLN
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	182	GLN
5	J	206	HIS
5	J	221	GLN
5	J	270	GLN
5	J	337	ASN
5	J	380	GLN
6	K	74	HIS
6	K	99	ASN

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Mol	Chain	Res	Type
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	258	GLN
7	N	259	GLN
7	N	345	ASN
7	N	347	ASN
7	N	412	HIS
7	N	540	GLN
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
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
11	R	381	GLN
12	S	242	HIS

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Mol	Chain	Res	Type
12	S	299	GLN
12	S	473	GLN
14	U	12	HIS
14	U	22	HIS
14	U	102	HIS
14	U	223	ASN
14	U	224	HIS
14	U	254	ASN
14	U	273	HIS
14	U	278	ASN
15	V	77	GLN
15	V	101	GLN
15	V	221	HIS
15	V	256	ASN
15	V	295	ASN
15	V	298	GLN
16	W	44	ASN
16	W	101	GLN
16	W	142	ASN
16	W	169	HIS
19	B	68	HIS
19	B	75	ASN
19	B	100	ASN
20	C	101	GLN
20	C	201	GLN
21	D	69	ASN
21	D	102	GLN
21	D	142	HIS
21	D	240	HIS
22	E	54	GLN
22	E	92	GLN
22	E	154	HIS
23	F	41	GLN
23	F	97	GLN
23	F	152	GLN
23	F	182	GLN
23	F	221	GLN
24	G	5	GLN
24	G	60	GLN
24	G	166	GLN
26	a	66	HIS
27	b	57	GLN

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Mol	Chain	Res	Type
27	b	80	ASN
27	b	193	ASN
30	e	119	ASN
31	f	146	GLN
31	f	151	ASN
31	f	152	GLN
32	g	81	HIS
32	g	188	GLN
19	h	53	GLN
19	h	68	HIS
19	h	75	ASN
19	h	100	ASN
20	i	51	GLN
21	j	69	ASN
21	j	142	HIS
21	j	240	HIS
22	k	92	GLN
22	k	122	ASN
22	k	154	HIS
23	l	41	GLN
23	l	97	GLN
23	l	152	GLN
23	l	182	GLN
23	l	221	GLN
27	p	80	ASN
30	s	10	HIS
30	s	38	ASN
30	s	119	ASN
31	t	146	GLN
31	t	151	ASN
31	t	152	GLN
32	u	81	HIS
32	u	89	HIS
32	u	188	GLN
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
2	v	358	HIS

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Mol	Chain	Res	Type
1	w	120	HIS
1	w	181	GLN
1	w	193	GLN
1	w	195	GLN
1	w	207	HIS
1	w	241	ASN
1	w	277	HIS
1	w	298	ASN
1	w	314	ASN
1	w	315	GLN
1	w	332	ASN
1	w	366	GLN
5	x	36	ASN
5	x	69	GLN
5	x	118	ASN
5	x	157	GLN
5	x	171	HIS
5	x	182	GLN
5	x	206	HIS
5	x	270	GLN
5	x	380	GLN
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	75	ASN
3	z	225	HIS
3	z	226	GLN
3	z	262	ASN
3	z	316	HIS
4	0	243	GLN
4	0	315	ASN
4	0	325	GLN

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Mol	Chain	Res	Type
4	0	333	ASN
4	0	380	ASN
4	0	436	GLN
7	1	258	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
10	4	334	ASN
11	5	136	HIS
11	5	280	GLN
11	5	291	HIS
11	5	344	HIS
11	5	363	ASN
11	5	381	GLN
12	6	242	HIS
12	6	299	GLN
12	6	453	HIS
12	6	473	GLN
14	8	12	HIS
14	8	22	HIS
14	8	72	HIS
14	8	102	HIS
14	8	223	ASN
14	8	224	HIS
14	8	254	ASN
14	8	273	HIS
14	8	278	ASN

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Mol	Chain	Res	Type
15	9	77	GLN
15	9	101	GLN
15	9	221	HIS
15	9	256	ASN
15	9	295	ASN
15	9	298	GLN
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 oligosaccharides 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	w	501	-	28,29,29	1.42	4 (14%)	43,45,45	1.86	9 (20%)
33	ADP	0	501	-	28,29,29	1.34	5 (17%)	43,45,45	1.84	10 (23%)
33	ADP	M	501	-	28,29,29	1.34	5 (17%)	43,45,45	1.84	10 (23%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
33	ADP	H	501	-	28,29,29	1.43	4 (14%)	43,45,45	1.86	9 (20%)
33	ADP	L	401	-	28,29,29	1.38	4 (14%)	43,45,45	1.82	7 (16%)
33	ADP	y	501	-	28,29,29	1.40	4 (14%)	43,45,45	1.85	11 (25%)
33	ADP	I	501	-	28,29,29	1.42	4 (14%)	43,45,45	1.86	9 (20%)
33	ADP	K	501	-	28,29,29	1.40	4 (14%)	43,45,45	1.85	11 (25%)
33	ADP	x	501	-	28,29,29	1.33	5 (17%)	43,45,45	1.82	10 (23%)
33	ADP	J	501	-	28,29,29	1.33	5 (17%)	43,45,45	1.82	10 (23%)
33	ADP	z	401	-	28,29,29	1.38	4 (14%)	43,45,45	1.82	7 (16%)
33	ADP	v	501	-	28,29,29	1.43	4 (14%)	43,45,45	1.86	9 (20%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
33	ADP	w	501	-	-	3/16/32/32	0/3/3/3
33	ADP	0	501	-	-	3/16/32/32	0/3/3/3
33	ADP	M	501	-	-	3/16/32/32	0/3/3/3
33	ADP	H	501	-	-	1/16/32/32	0/3/3/3
33	ADP	L	401	-	-	0/16/32/32	0/3/3/3
33	ADP	y	501	-	-	6/16/32/32	0/3/3/3
33	ADP	I	501	-	-	3/16/32/32	0/3/3/3
33	ADP	K	501	-	-	6/16/32/32	0/3/3/3
33	ADP	x	501	-	-	4/16/32/32	0/3/3/3
33	ADP	J	501	-	-	4/16/32/32	0/3/3/3
33	ADP	z	401	-	-	0/16/32/32	0/3/3/3
33	ADP	v	501	-	-	1/16/32/32	0/3/3/3

All (52) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	I	501	ADP	C5-C4	4.79	1.47	1.39
33	w	501	ADP	C5-C4	4.79	1.47	1.39
33	H	501	ADP	C5-C4	4.76	1.47	1.39
33	v	501	ADP	C5-C4	4.76	1.47	1.39
33	L	401	ADP	C5-C4	4.54	1.47	1.39
33	z	401	ADP	C5-C4	4.54	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	K	501	ADP	C5-C4	4.53	1.47	1.39
33	y	501	ADP	C5-C4	4.53	1.47	1.39
33	M	501	ADP	C5-C4	4.38	1.46	1.39
33	0	501	ADP	C5-C4	4.38	1.46	1.39
33	J	501	ADP	C5-C4	4.29	1.46	1.39
33	x	501	ADP	C5-C4	4.29	1.46	1.39
33	H	501	ADP	C5-C6	2.74	1.48	1.41
33	v	501	ADP	C5-C6	2.74	1.48	1.41
33	I	501	ADP	C5-C6	2.73	1.48	1.41
33	w	501	ADP	C5-C6	2.73	1.48	1.41
33	K	501	ADP	C5-C6	2.68	1.48	1.41
33	y	501	ADP	C5-C6	2.68	1.48	1.41
33	L	401	ADP	C5-N7	-2.54	1.34	1.39
33	z	401	ADP	C5-N7	-2.54	1.34	1.39
33	J	501	ADP	C5-C6	2.52	1.48	1.41
33	x	501	ADP	C5-C6	2.52	1.48	1.41
33	M	501	ADP	C5-C6	2.51	1.48	1.41
33	0	501	ADP	C5-C6	2.51	1.48	1.41
33	L	401	ADP	C5-C6	2.46	1.47	1.41
33	z	401	ADP	C5-C6	2.46	1.47	1.41
33	H	501	ADP	C8-N7	2.41	1.36	1.31
33	v	501	ADP	C8-N7	2.41	1.36	1.31
33	J	501	ADP	C5-N7	-2.38	1.34	1.39
33	x	501	ADP	C5-N7	-2.38	1.34	1.39
33	I	501	ADP	C8-N7	2.35	1.36	1.31
33	w	501	ADP	C8-N7	2.35	1.36	1.31
33	K	501	ADP	C8-N7	2.33	1.36	1.31
33	y	501	ADP	C8-N7	2.33	1.36	1.31
33	M	501	ADP	C5-N7	-2.32	1.34	1.39
33	0	501	ADP	C5-N7	-2.32	1.34	1.39
33	K	501	ADP	C5-N7	-2.32	1.34	1.39
33	y	501	ADP	C5-N7	-2.32	1.34	1.39
33	M	501	ADP	C8-N7	2.26	1.36	1.31
33	0	501	ADP	C8-N7	2.26	1.36	1.31
33	J	501	ADP	C8-N7	2.26	1.36	1.31
33	x	501	ADP	C8-N7	2.26	1.36	1.31
33	H	501	ADP	C5-N7	-2.24	1.35	1.39
33	v	501	ADP	C5-N7	-2.24	1.35	1.39
33	I	501	ADP	C5-N7	-2.22	1.35	1.39
33	w	501	ADP	C5-N7	-2.22	1.35	1.39
33	L	401	ADP	C8-N7	2.22	1.35	1.31
33	z	401	ADP	C8-N7	2.22	1.35	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	J	501	ADP	C4-N9	-2.16	1.33	1.37
33	x	501	ADP	C4-N9	-2.16	1.33	1.37
33	M	501	ADP	C4-N9	-2.14	1.33	1.37
33	0	501	ADP	C4-N9	-2.14	1.33	1.37

All (112) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	L	401	ADP	C5-C4-N3	-5.97	118.49	126.72
33	z	401	ADP	C5-C4-N3	-5.97	118.49	126.72
33	I	501	ADP	C5-C4-N3	-5.90	118.60	126.72
33	w	501	ADP	C5-C4-N3	-5.90	118.60	126.72
33	H	501	ADP	C5-C4-N3	-5.87	118.64	126.72
33	v	501	ADP	C5-C4-N3	-5.87	118.64	126.72
33	K	501	ADP	C5-C4-N3	-5.73	118.83	126.72
33	y	501	ADP	C5-C4-N3	-5.73	118.83	126.72
33	J	501	ADP	C5-C4-N3	-5.45	119.21	126.72
33	x	501	ADP	C5-C4-N3	-5.45	119.21	126.72
33	M	501	ADP	C5-C4-N3	-5.45	119.22	126.72
33	0	501	ADP	C5-C4-N3	-5.45	119.22	126.72
33	L	401	ADP	N3-C4-N9	4.80	135.32	127.17
33	z	401	ADP	N3-C4-N9	4.80	135.32	127.17
33	I	501	ADP	N3-C4-N9	4.64	135.07	127.17
33	w	501	ADP	N3-C4-N9	4.64	135.07	127.17
33	H	501	ADP	N3-C4-N9	4.63	135.04	127.17
33	v	501	ADP	N3-C4-N9	4.63	135.04	127.17
33	K	501	ADP	N3-C4-N9	4.45	134.73	127.17
33	y	501	ADP	N3-C4-N9	4.45	134.73	127.17
33	M	501	ADP	N3-C4-N9	4.38	134.62	127.17
33	0	501	ADP	N3-C4-N9	4.38	134.62	127.17
33	J	501	ADP	N3-C4-N9	4.37	134.59	127.17
33	x	501	ADP	N3-C4-N9	4.37	134.59	127.17
33	H	501	ADP	C2-N3-C4	3.73	120.94	111.83
33	v	501	ADP	C2-N3-C4	3.73	120.94	111.83
33	I	501	ADP	C2-N3-C4	3.72	120.92	111.83
33	w	501	ADP	C2-N3-C4	3.72	120.92	111.83
33	L	401	ADP	C2-N3-C4	3.70	120.87	111.83
33	z	401	ADP	C2-N3-C4	3.70	120.87	111.83
33	K	501	ADP	C2-N3-C4	3.69	120.84	111.83
33	y	501	ADP	C2-N3-C4	3.69	120.84	111.83
33	J	501	ADP	C2-N3-C4	3.60	120.61	111.83
33	x	501	ADP	C2-N3-C4	3.60	120.61	111.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	M	501	ADP	C2-N3-C4	3.59	120.61	111.83
33	0	501	ADP	C2-N3-C4	3.59	120.61	111.83
33	K	501	ADP	C4-C5-N7	-3.56	106.52	110.58
33	y	501	ADP	C4-C5-N7	-3.56	106.52	110.58
33	I	501	ADP	C4-C5-N7	-3.53	106.55	110.58
33	w	501	ADP	C4-C5-N7	-3.53	106.55	110.58
33	H	501	ADP	C4-C5-N7	-3.50	106.58	110.58
33	v	501	ADP	C4-C5-N7	-3.50	106.58	110.58
33	M	501	ADP	N3-C2-N1	-3.33	123.54	128.58
33	0	501	ADP	N3-C2-N1	-3.33	123.54	128.58
33	J	501	ADP	C4-C5-N7	-3.28	106.83	110.58
33	x	501	ADP	C4-C5-N7	-3.28	106.83	110.58
33	H	501	ADP	N3-C2-N1	-3.28	123.62	128.58
33	v	501	ADP	N3-C2-N1	-3.28	123.62	128.58
33	J	501	ADP	N3-C2-N1	-3.27	123.63	128.58
33	x	501	ADP	N3-C2-N1	-3.27	123.63	128.58
33	M	501	ADP	C4-C5-N7	-3.26	106.85	110.58
33	0	501	ADP	C4-C5-N7	-3.26	106.85	110.58
33	L	401	ADP	C4-C5-N7	-3.24	106.88	110.58
33	z	401	ADP	C4-C5-N7	-3.24	106.88	110.58
33	L	401	ADP	N3-C2-N1	-3.23	123.69	128.58
33	z	401	ADP	N3-C2-N1	-3.23	123.69	128.58
33	K	501	ADP	N3-C2-N1	-3.21	123.72	128.58
33	y	501	ADP	N3-C2-N1	-3.21	123.72	128.58
33	I	501	ADP	N3-C2-N1	-3.21	123.73	128.58
33	w	501	ADP	N3-C2-N1	-3.21	123.73	128.58
33	M	501	ADP	C4-N9-C8	2.95	108.83	105.74
33	0	501	ADP	C4-N9-C8	2.95	108.83	105.74
33	J	501	ADP	C4-N9-C8	2.94	108.83	105.74
33	x	501	ADP	C4-N9-C8	2.94	108.83	105.74
33	K	501	ADP	C4-N9-C8	2.68	108.56	105.74
33	y	501	ADP	C4-N9-C8	2.68	108.56	105.74
33	H	501	ADP	C4-N9-C8	2.64	108.52	105.74
33	v	501	ADP	C4-N9-C8	2.64	108.52	105.74
33	I	501	ADP	C4-N9-C8	2.60	108.47	105.74
33	w	501	ADP	C4-N9-C8	2.60	108.47	105.74
33	I	501	ADP	C3'-C2'-C1'	2.57	106.33	101.46
33	w	501	ADP	C3'-C2'-C1'	2.57	106.33	101.46
33	K	501	ADP	C5-N7-C8	2.57	107.49	103.45
33	y	501	ADP	C5-N7-C8	2.57	107.49	103.45
33	H	501	ADP	C3'-C2'-C1'	2.56	106.31	101.46
33	v	501	ADP	C3'-C2'-C1'	2.56	106.31	101.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	H	501	ADP	C5-N7-C8	2.56	107.47	103.45
33	v	501	ADP	C5-N7-C8	2.56	107.47	103.45
33	I	501	ADP	C5-N7-C8	2.55	107.46	103.45
33	w	501	ADP	C5-N7-C8	2.55	107.46	103.45
33	L	401	ADP	C4-N9-C8	2.54	108.41	105.74
33	z	401	ADP	C4-N9-C8	2.54	108.41	105.74
33	J	501	ADP	C5-N7-C8	2.43	107.26	103.45
33	x	501	ADP	C5-N7-C8	2.43	107.26	103.45
33	M	501	ADP	C5-N7-C8	2.42	107.25	103.45
33	0	501	ADP	C5-N7-C8	2.42	107.25	103.45
33	L	401	ADP	C5-N7-C8	2.36	107.16	103.45
33	z	401	ADP	C5-N7-C8	2.36	107.16	103.45
33	J	501	ADP	C3'-C2'-C1'	2.26	105.73	101.46
33	x	501	ADP	C3'-C2'-C1'	2.26	105.73	101.46
33	K	501	ADP	C6-C5-N7	2.21	136.36	132.09
33	y	501	ADP	C6-C5-N7	2.21	136.36	132.09
33	M	501	ADP	C3'-C2'-C1'	2.17	105.57	101.46
33	0	501	ADP	C3'-C2'-C1'	2.17	105.57	101.46
33	J	501	ADP	N9-C8-N7	-2.15	110.89	113.94
33	x	501	ADP	N9-C8-N7	-2.15	110.89	113.94
33	M	501	ADP	N9-C8-N7	-2.14	110.89	113.94
33	0	501	ADP	N9-C8-N7	-2.14	110.89	113.94
33	J	501	ADP	C6-C5-N7	2.12	136.17	132.09
33	x	501	ADP	C6-C5-N7	2.12	136.17	132.09
33	M	501	ADP	C6-C5-N7	2.11	136.15	132.09
33	0	501	ADP	C6-C5-N7	2.11	136.15	132.09
33	I	501	ADP	C6-C5-N7	2.10	136.14	132.09
33	w	501	ADP	C6-C5-N7	2.10	136.14	132.09
33	H	501	ADP	C6-C5-N7	2.09	136.12	132.09
33	v	501	ADP	C6-C5-N7	2.09	136.12	132.09
33	K	501	ADP	N9-C8-N7	-2.08	110.99	113.94
33	y	501	ADP	N9-C8-N7	-2.08	110.99	113.94
33	K	501	ADP	C2'-C1'-N9	-2.04	108.23	113.30
33	y	501	ADP	C2'-C1'-N9	-2.04	108.23	113.30
33	K	501	ADP	C3'-C2'-C1'	2.01	105.26	101.46
33	y	501	ADP	C3'-C2'-C1'	2.01	105.26	101.46

There are no chirality outliers.

All (34) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
33	M	501	ADP	C5'-O5'-PA-O1A

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Mol	Chain	Res	Type	Atoms
33	M	501	ADP	C5'-O5'-PA-O2A
33	M	501	ADP	C5'-O5'-PA-O3A
33	J	501	ADP	C5'-O5'-PA-O3A
33	K	501	ADP	C5'-O5'-PA-O1A
33	K	501	ADP	C5'-O5'-PA-O2A
33	K	501	ADP	C5'-O5'-PA-O3A
33	x	501	ADP	C5'-O5'-PA-O3A
33	y	501	ADP	C5'-O5'-PA-O1A
33	y	501	ADP	C5'-O5'-PA-O2A
33	y	501	ADP	C5'-O5'-PA-O3A
33	0	501	ADP	C5'-O5'-PA-O1A
33	0	501	ADP	C5'-O5'-PA-O2A
33	0	501	ADP	C5'-O5'-PA-O3A
33	J	501	ADP	C3'-C4'-C5'-O5'
33	x	501	ADP	C3'-C4'-C5'-O5'
33	J	501	ADP	O4'-C4'-C5'-O5'
33	x	501	ADP	O4'-C4'-C5'-O5'
33	K	501	ADP	O4'-C4'-C5'-O5'
33	y	501	ADP	O4'-C4'-C5'-O5'
33	K	501	ADP	C3'-C4'-C5'-O5'
33	y	501	ADP	C3'-C4'-C5'-O5'
33	I	501	ADP	PB-O3A-PA-O2A
33	w	501	ADP	PB-O3A-PA-O2A
33	J	501	ADP	C5'-O5'-PA-O1A
33	x	501	ADP	C5'-O5'-PA-O1A
33	H	501	ADP	O4'-C4'-C5'-O5'
33	v	501	ADP	O4'-C4'-C5'-O5'
33	I	501	ADP	O4'-C4'-C5'-O5'
33	w	501	ADP	O4'-C4'-C5'-O5'
33	I	501	ADP	PB-O3A-PA-O1A
33	w	501	ADP	PB-O3A-PA-O1A
33	K	501	ADP	C2'-C1'-N9-C8
33	y	501	ADP	C2'-C1'-N9-C8

There are no ring outliers.

12 monomers are involved in 196 short contacts:

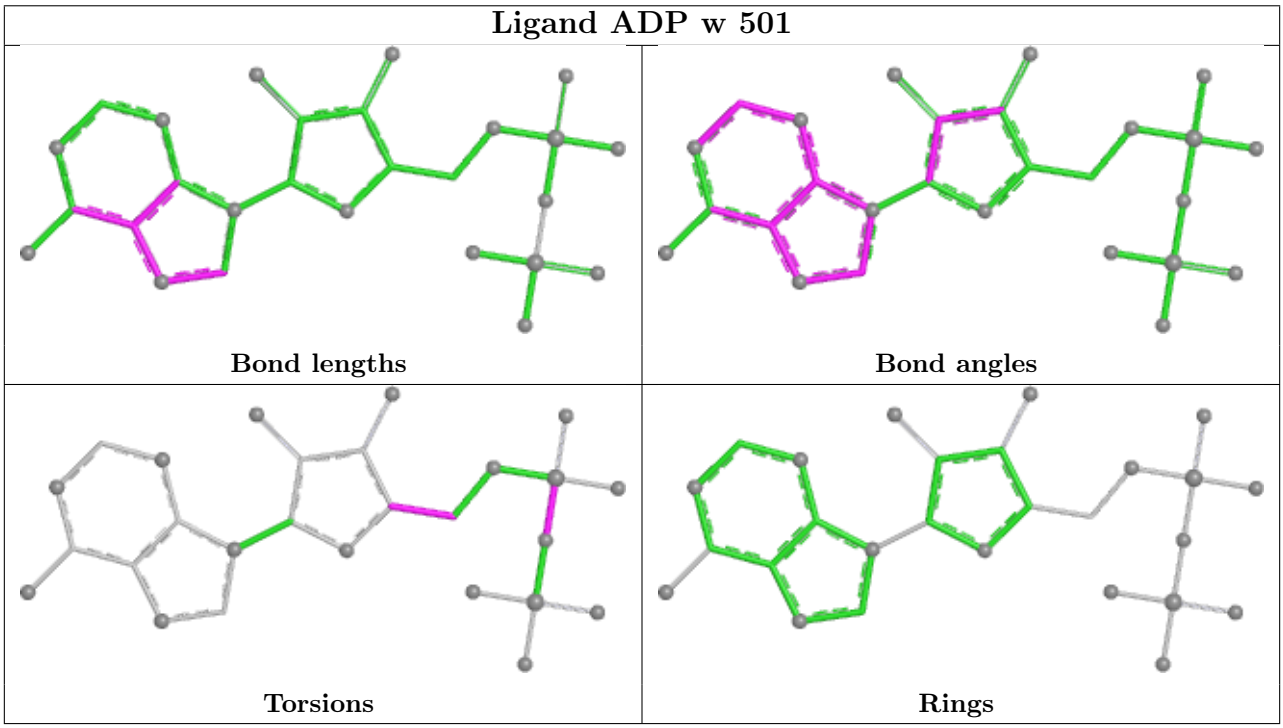
Mol	Chain	Res	Type	Clashes	Symm-Clashes
33	w	501	ADP	22	0
33	0	501	ADP	11	0
33	M	501	ADP	12	0
33	H	501	ADP	6	0

Continued on next page...

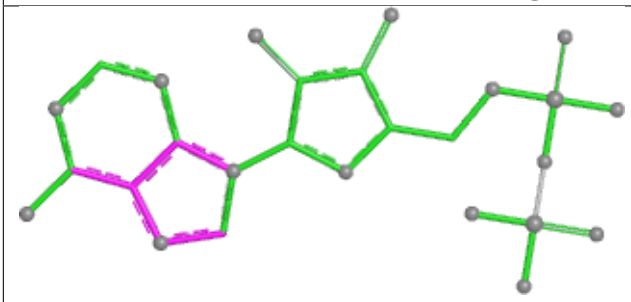
Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
33	L	401	ADP	15	0
33	y	501	ADP	22	0
33	I	501	ADP	23	0
33	K	501	ADP	23	0
33	x	501	ADP	19	0
33	J	501	ADP	21	0
33	z	401	ADP	16	0
33	v	501	ADP	6	0

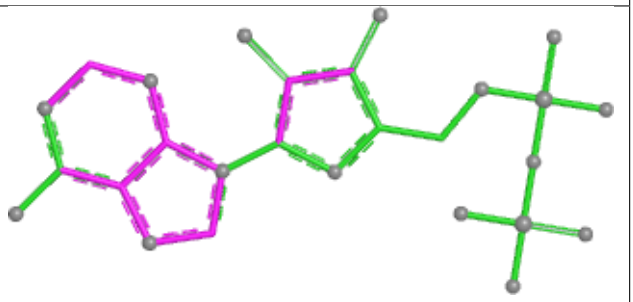
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



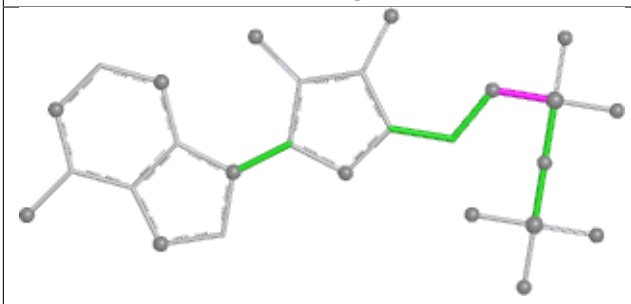
Ligand ADP 0 501



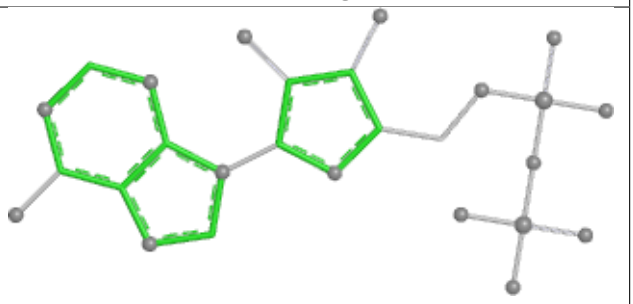
Bond lengths



Bond angles

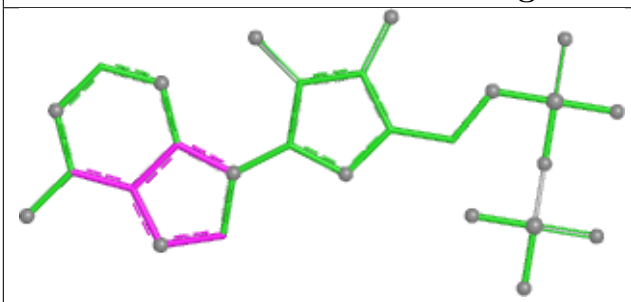


Torsions



Rings

Ligand ADP M 501



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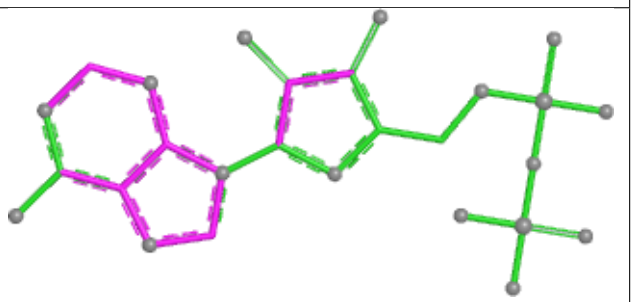
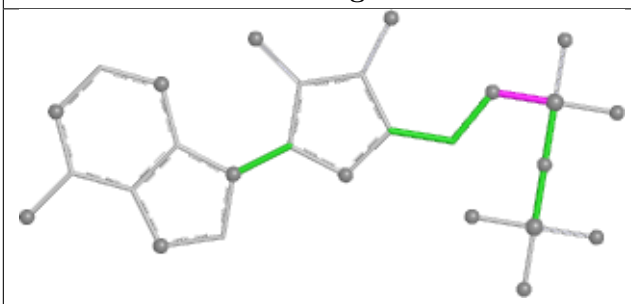


Bond angles



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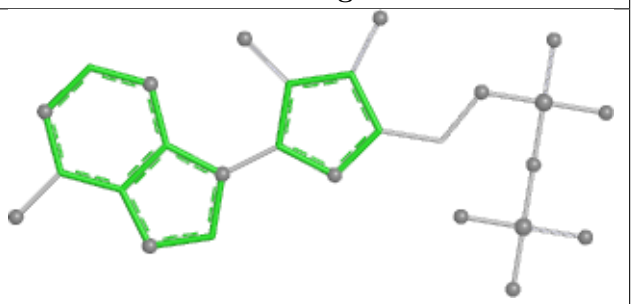
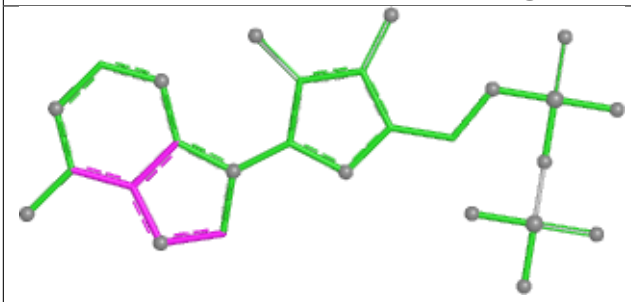
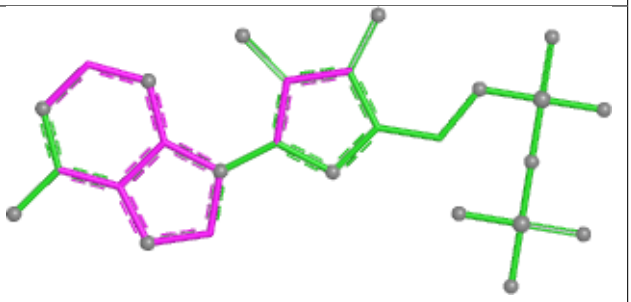
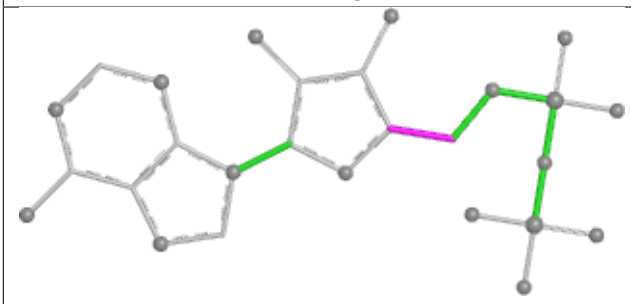
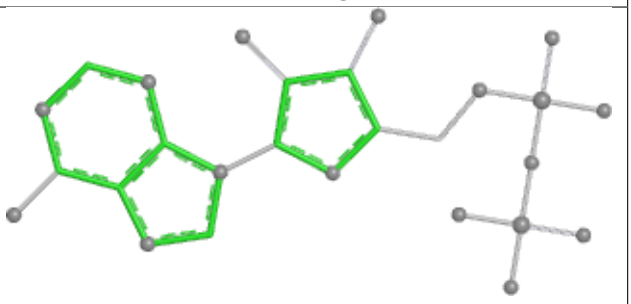
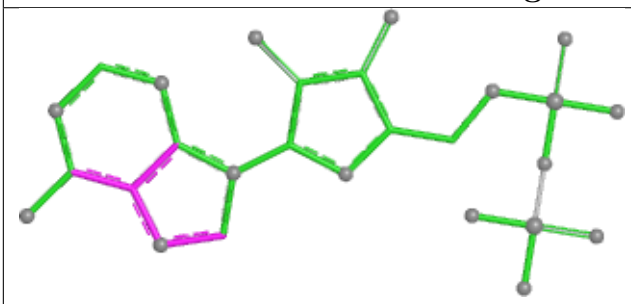
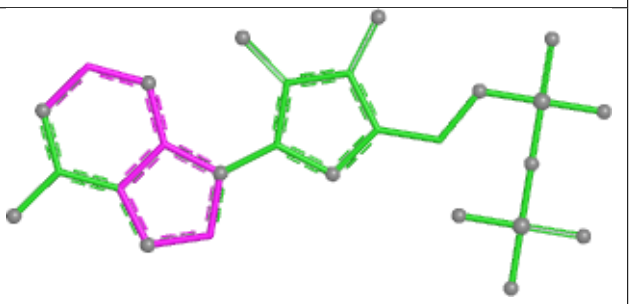
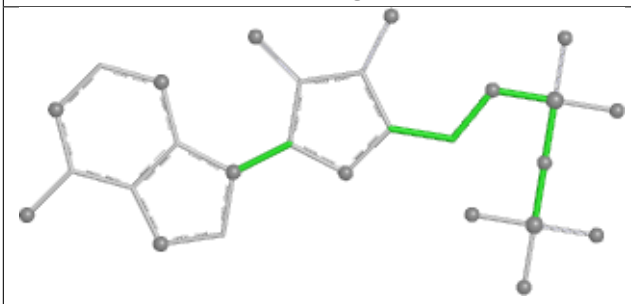
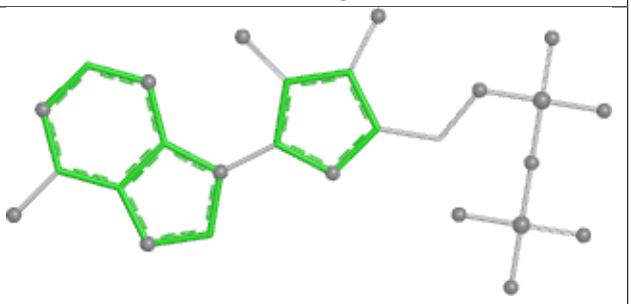
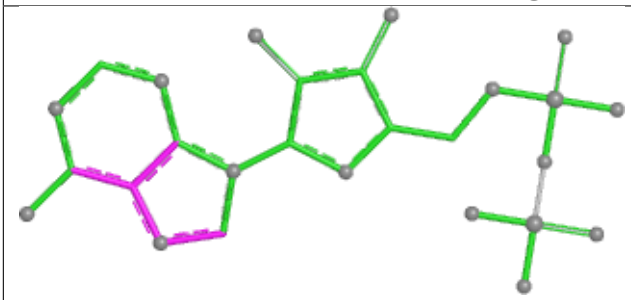


Rings

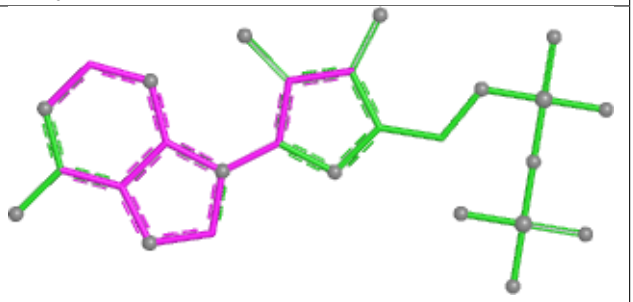
Ligand ADP H 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand ADP L 401	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand ADP y 501



Bond lengths



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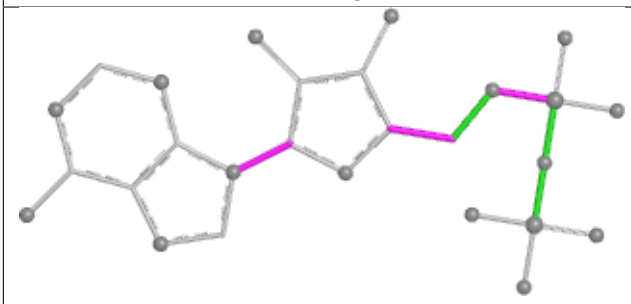

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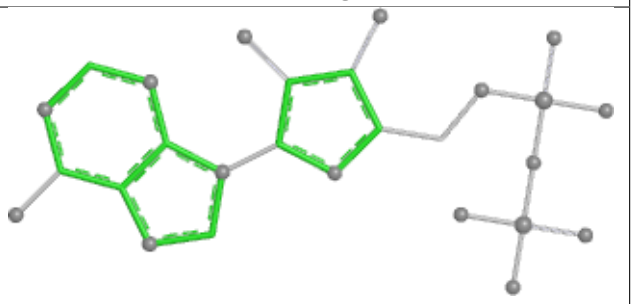
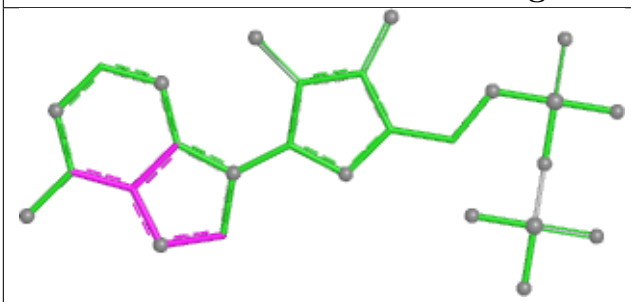


Rings

Ligand ADP I 501



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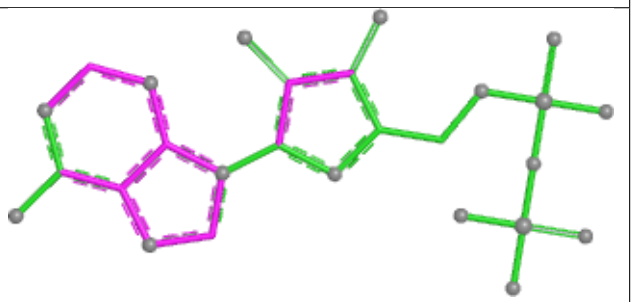

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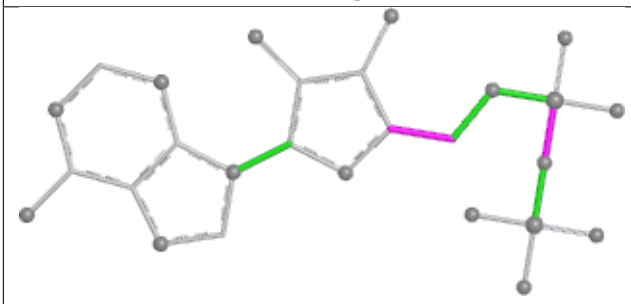

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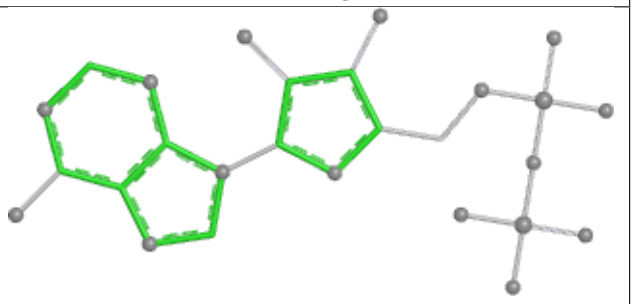
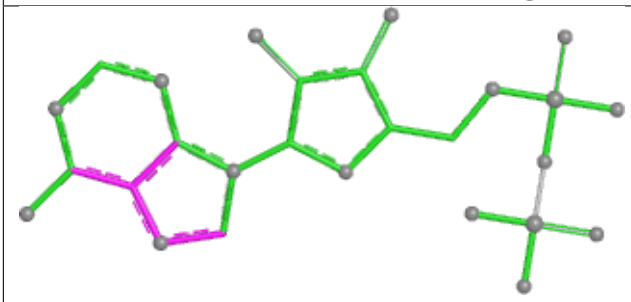
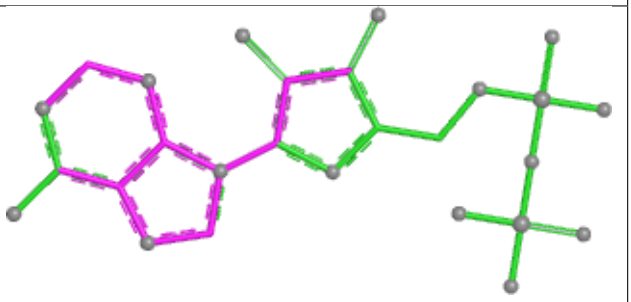
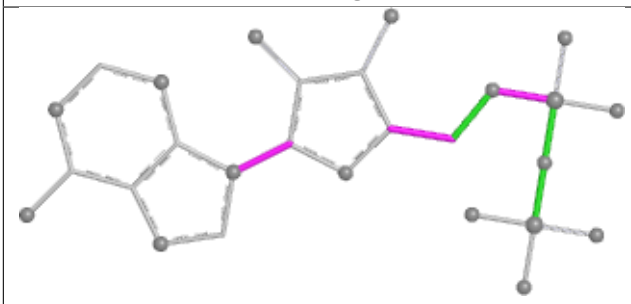
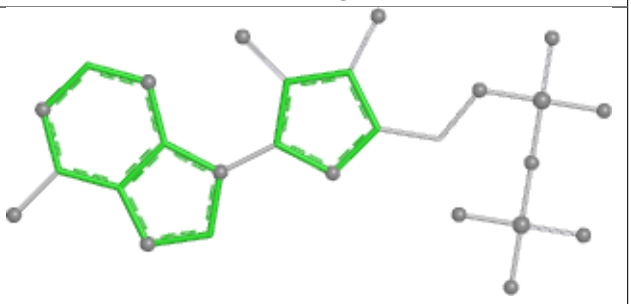
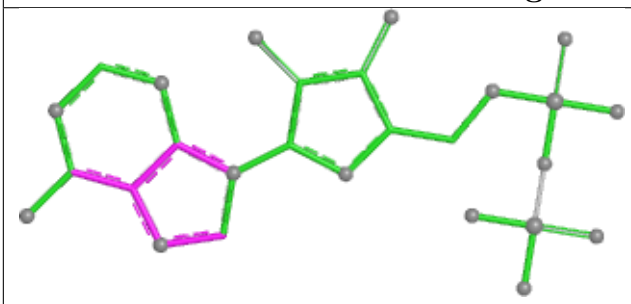
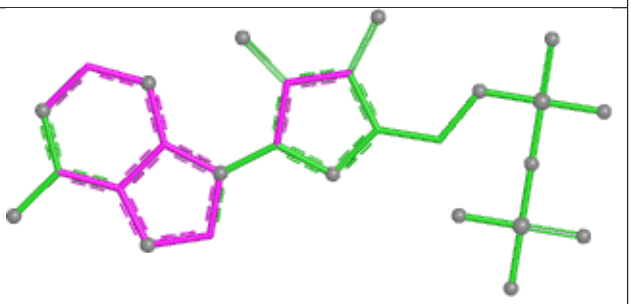
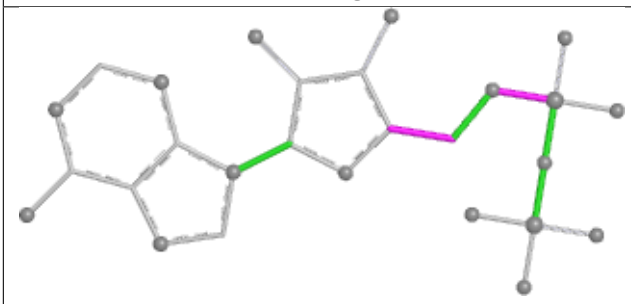
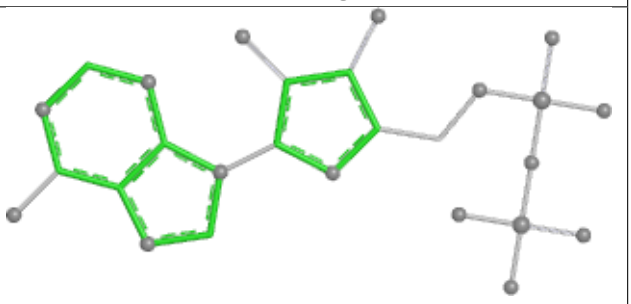
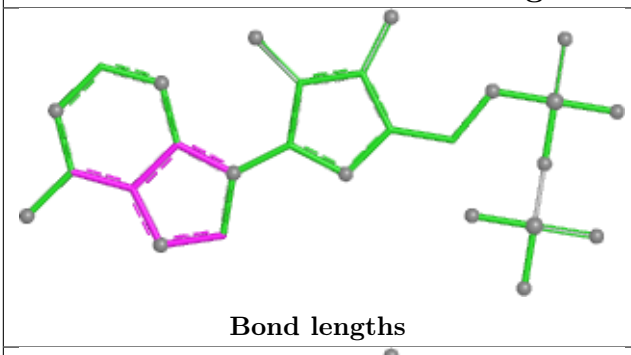


Rings

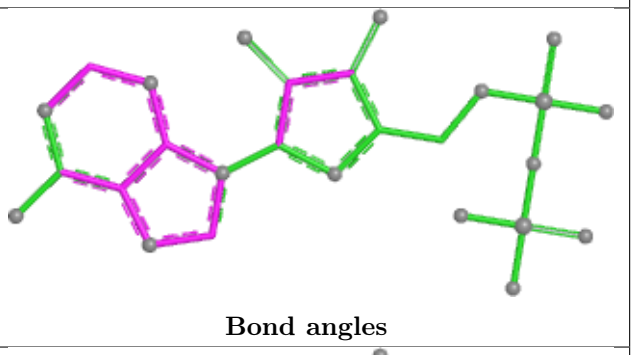
Ligand ADP K 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand ADP x 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

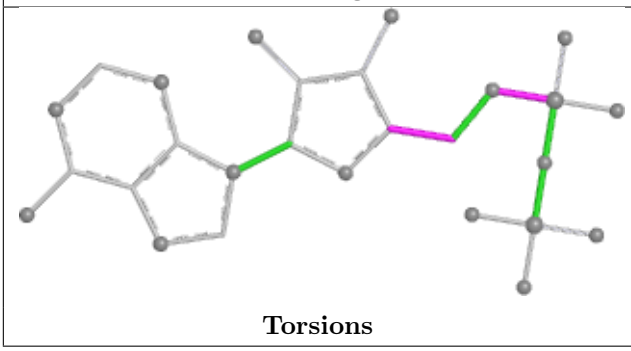
Ligand ADP J 501



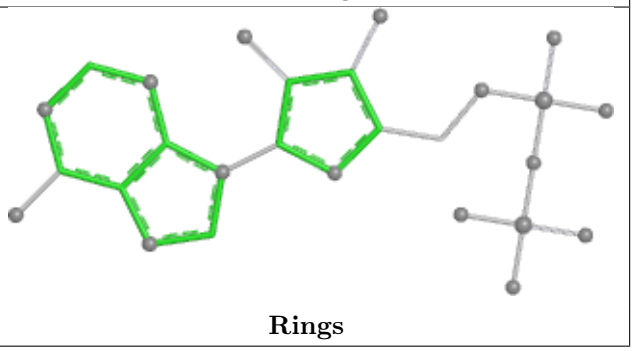
Bond lengths



Bond angles

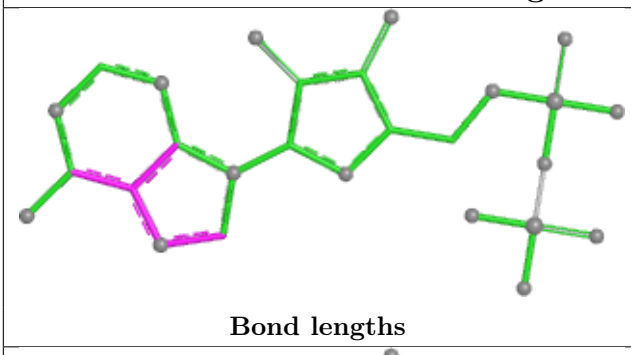


Torsions

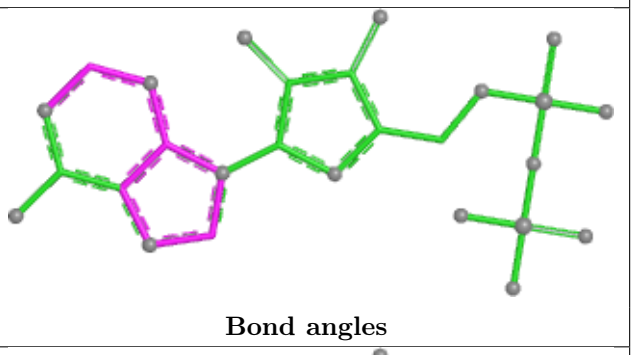


Rings

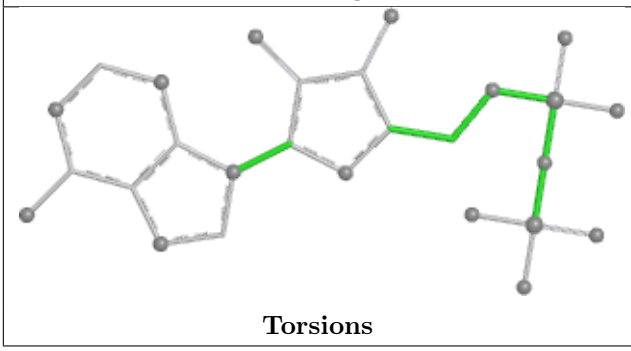
Ligand ADP z 401



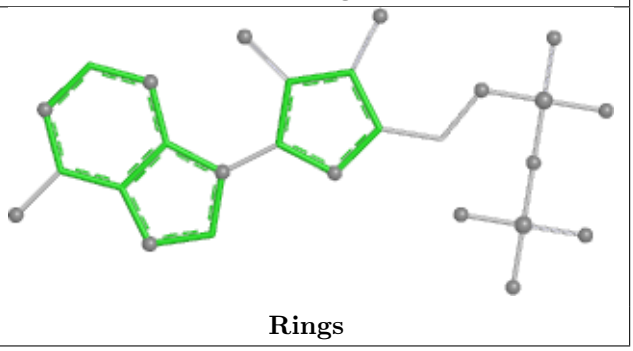
Bond lengths



Bond angles

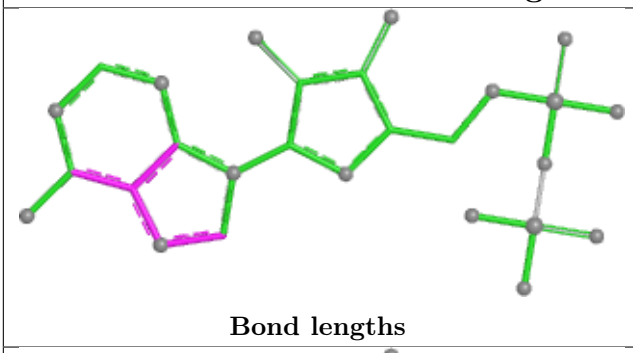


Torsions

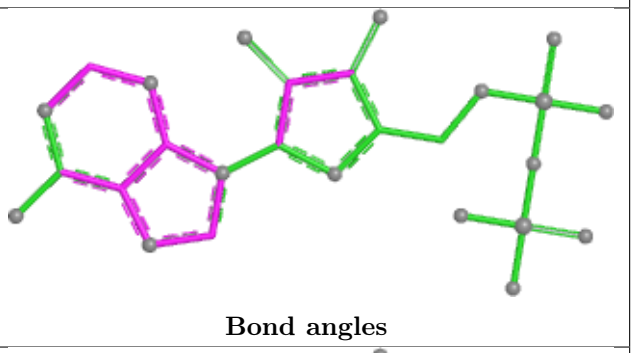


Rings

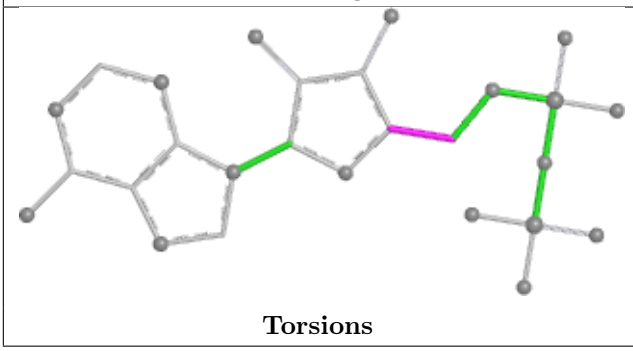
Ligand ADP v 501



Bond lengths



Bond angles



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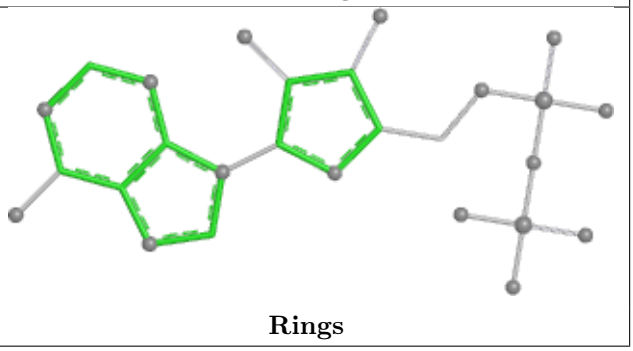


Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

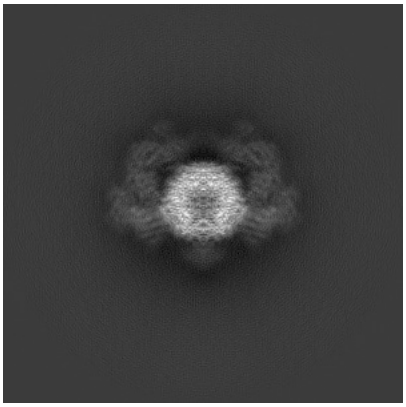
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-9512. These allow visual inspection of the internal detail of the map and identification of artifacts.

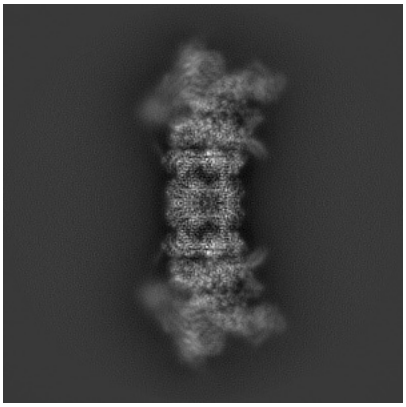
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

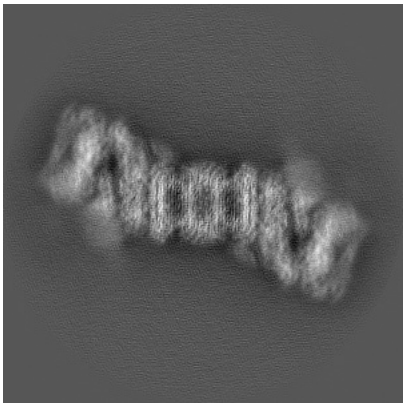
6.1.1 Primary map



X



Y

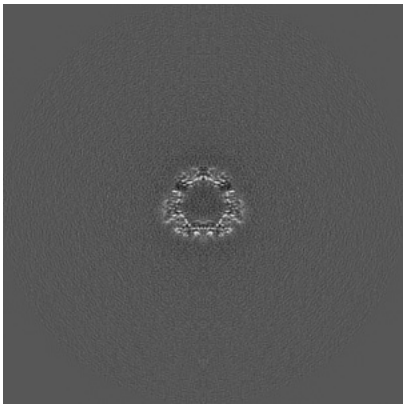


Z

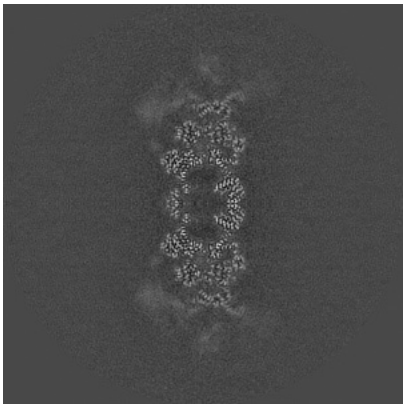
The images above show the map projected in three orthogonal directions.

6.2 Central slices

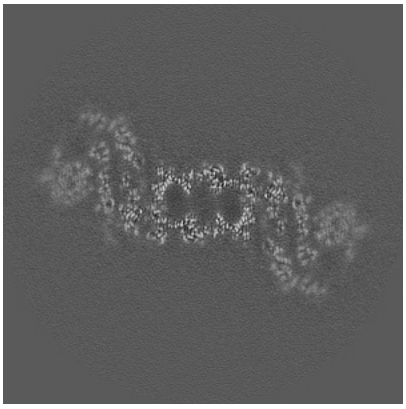
6.2.1 Primary map



X Index: 256



Y Index: 256

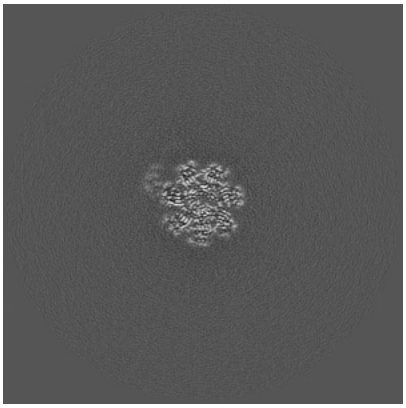


Z Index: 256

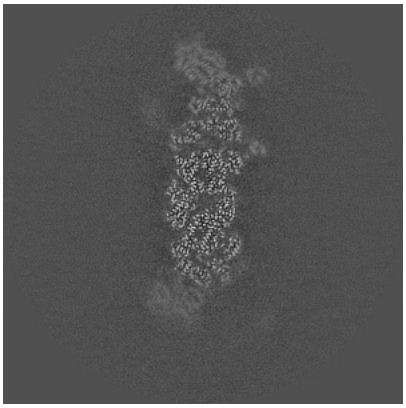
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

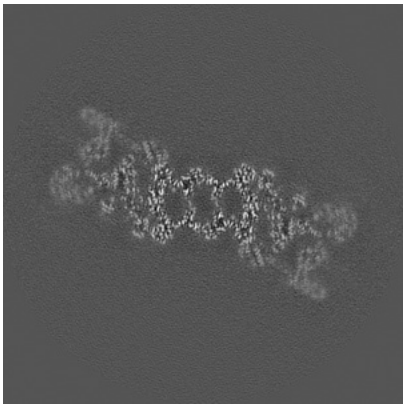
6.3.1 Primary map



X Index: 309



Y Index: 233

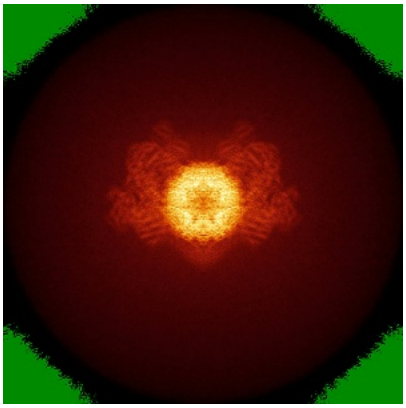


Z Index: 270

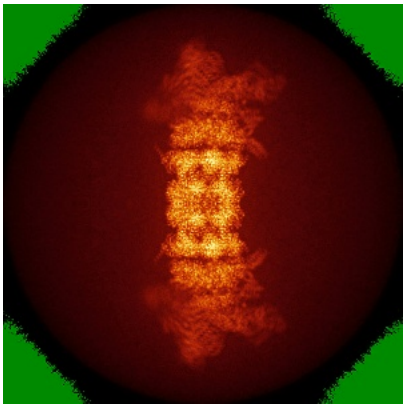
The images above show the largest variance slices of the map in three orthogonal directions.

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

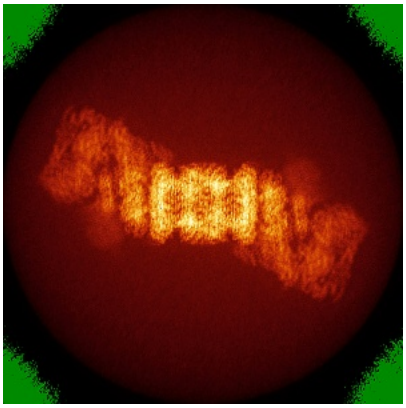
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views (i)

This section was not generated.

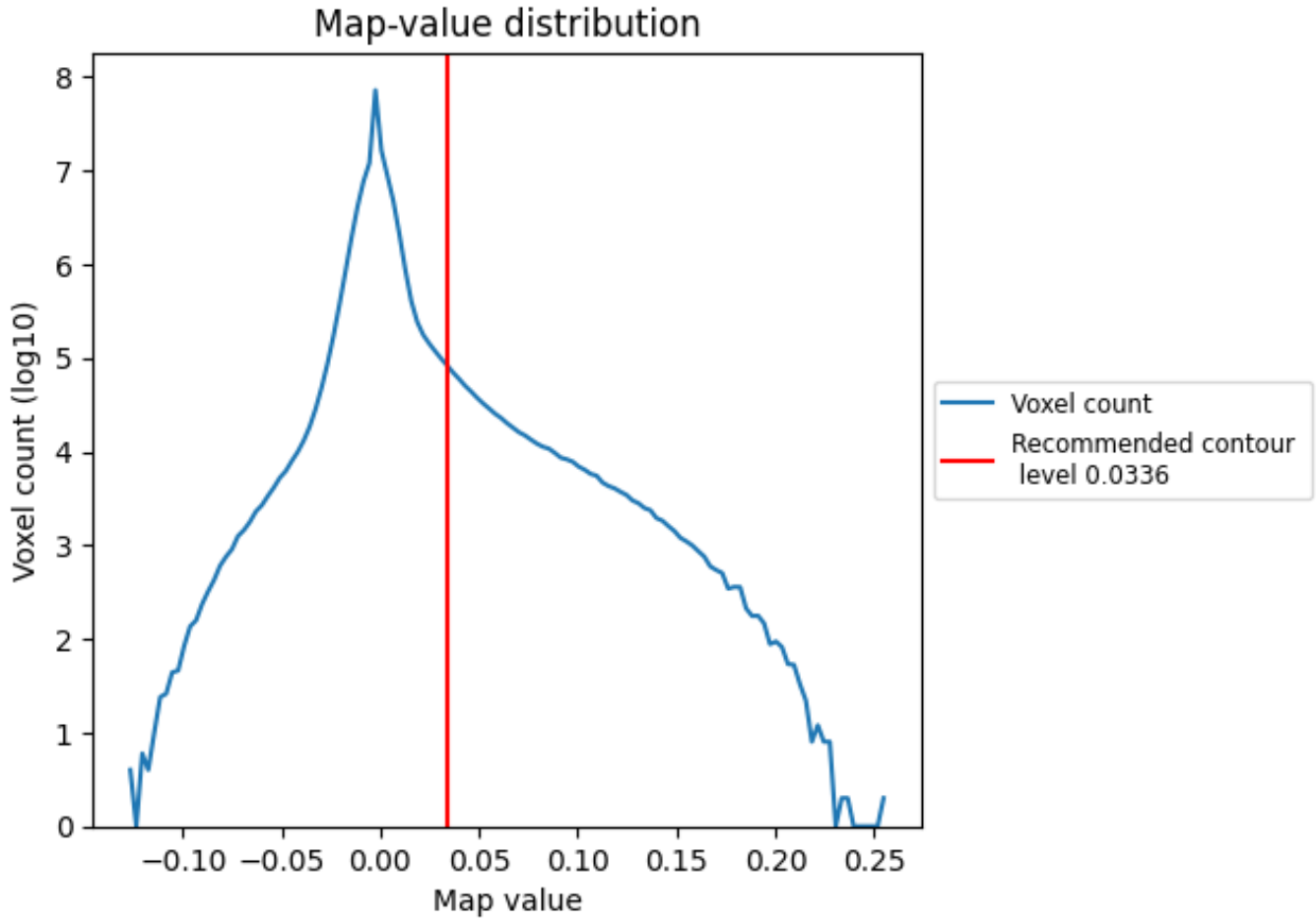
6.6 Mask visualisation (i)

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

7 Map analysis

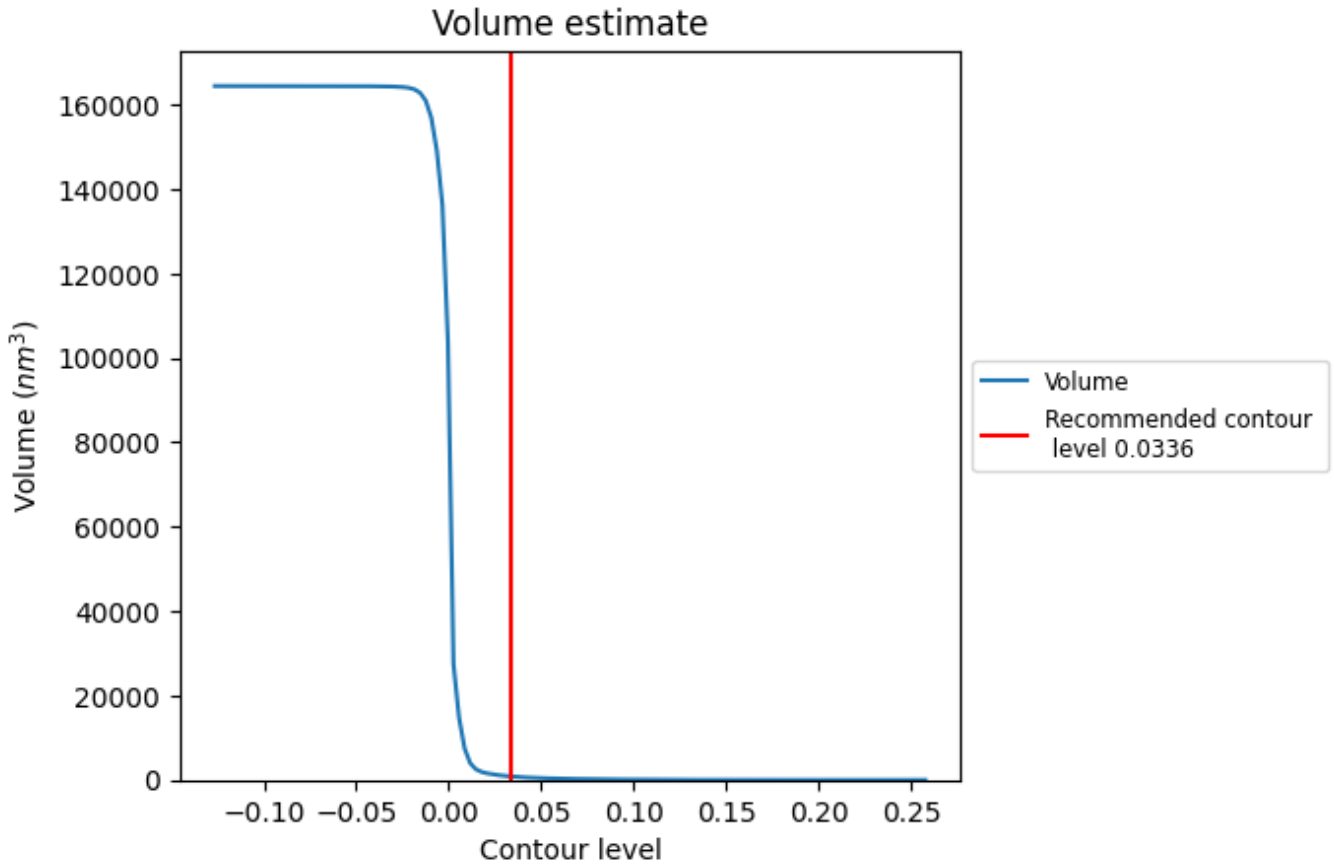
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

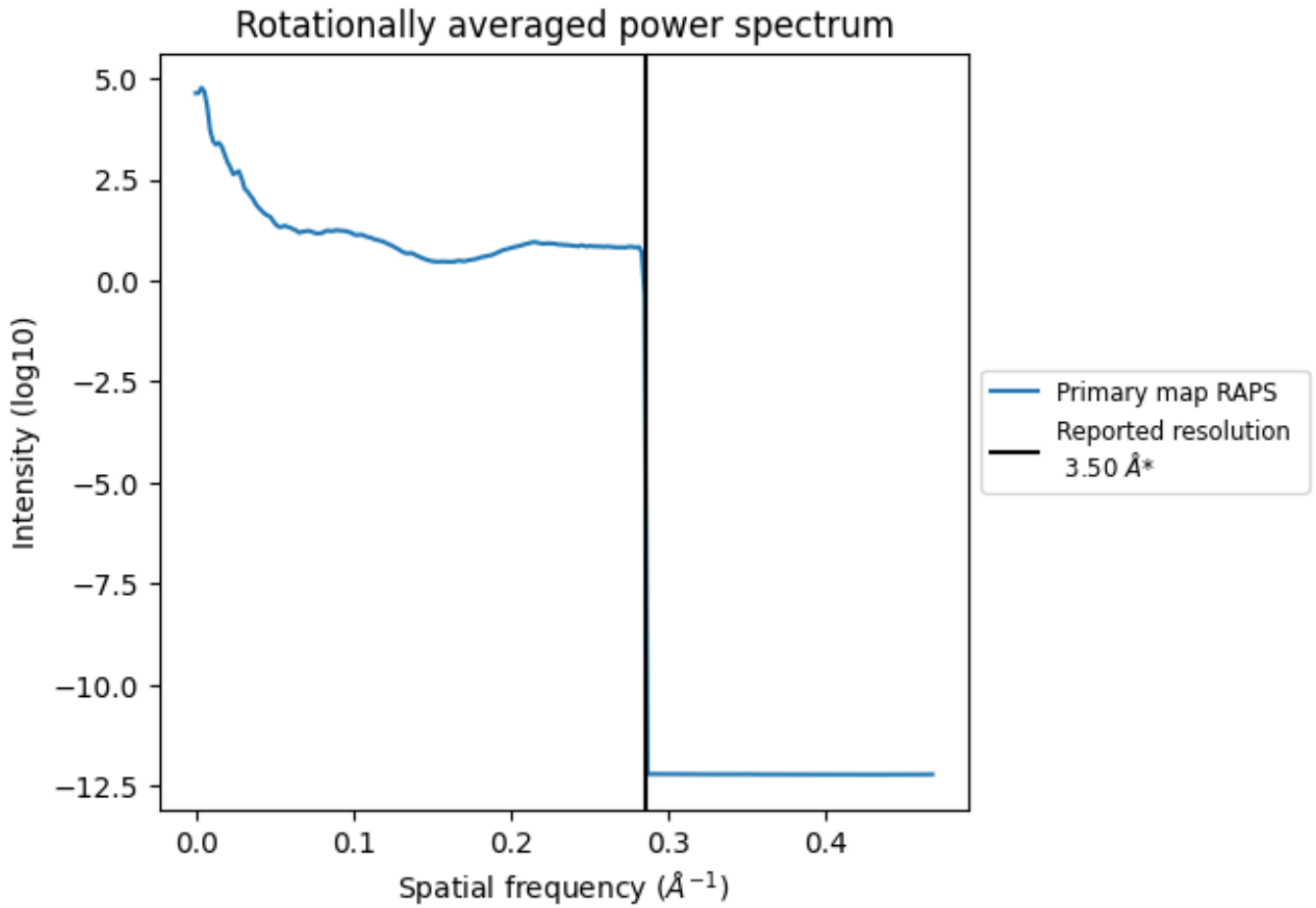
7.2 Volume estimate



The volume at the recommended contour level is 841 nm^3; this corresponds to an approximate mass of 760 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.286 $Å^{-1}$

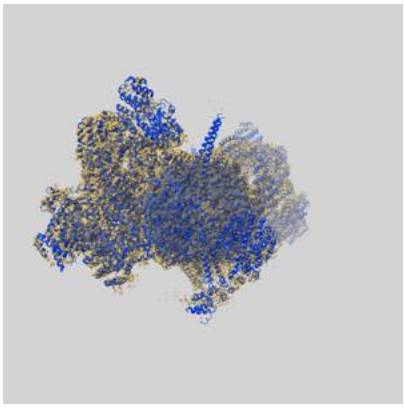
8 Fourier-Shell correlation

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

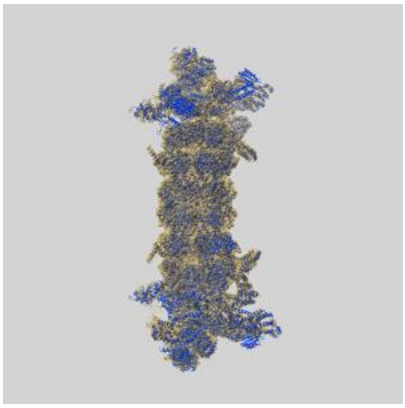
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-9512 and PDB model 5GJR. Per-residue inclusion information can be found in section 3 on page 14.

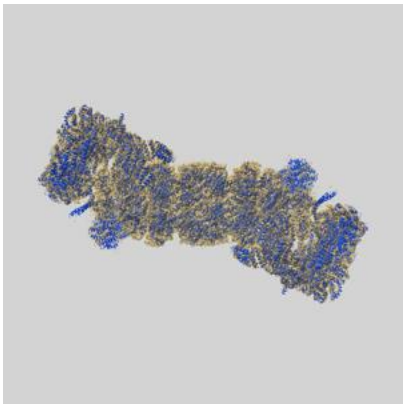
9.1 Map-model overlay



X



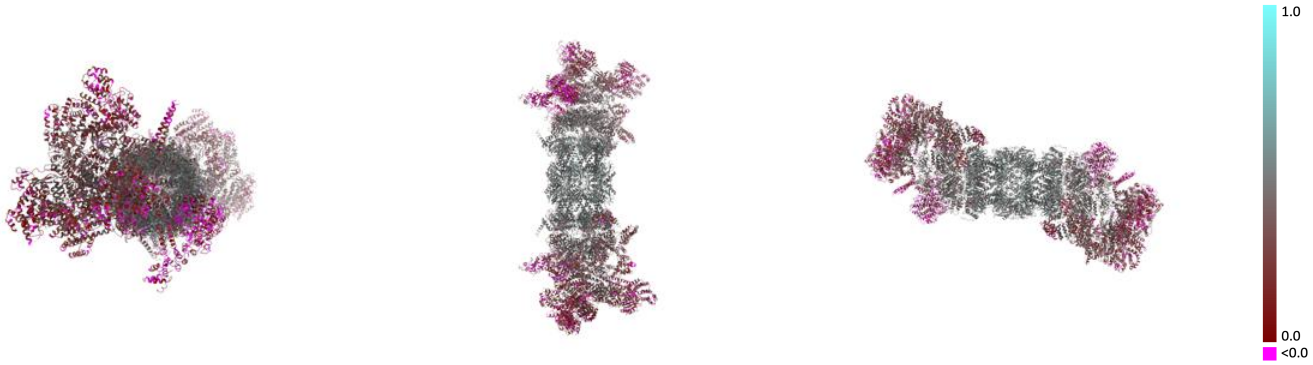
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0336 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

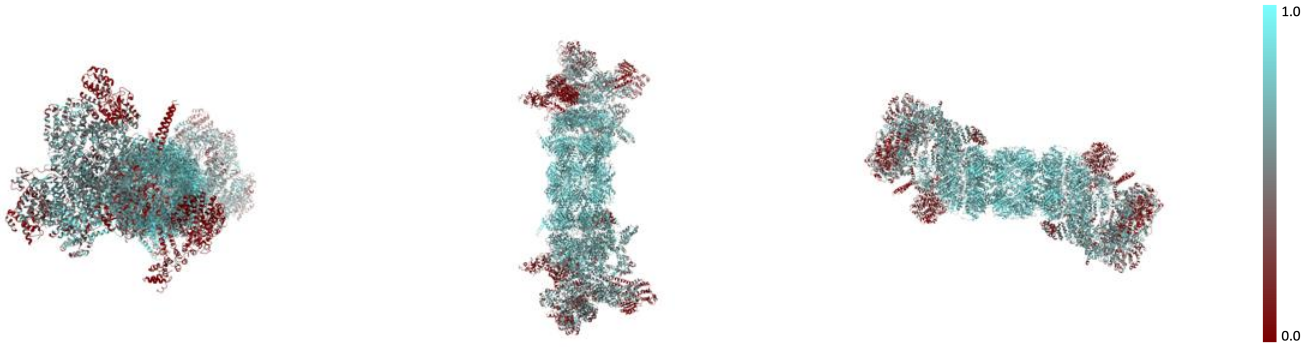
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

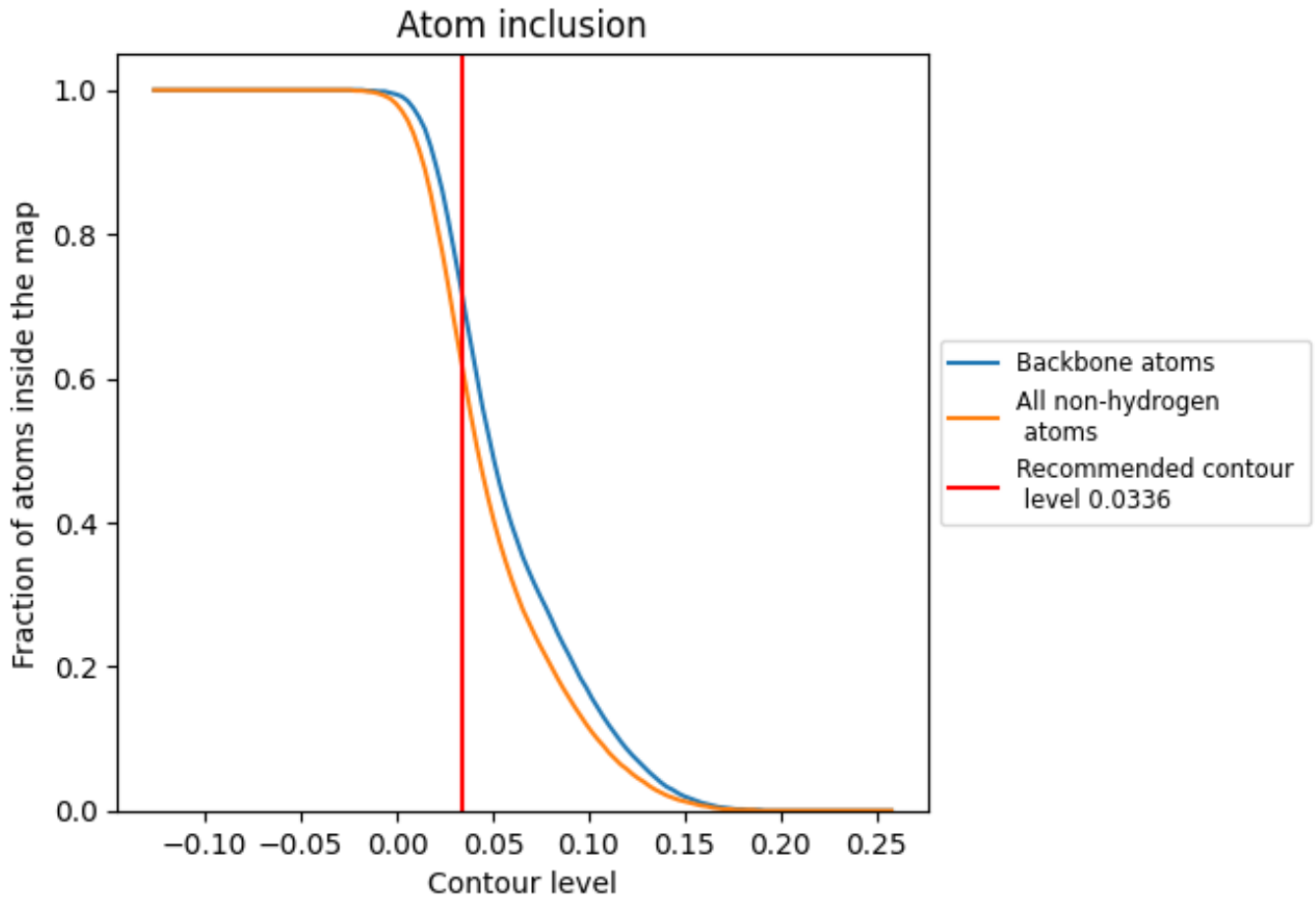
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0336).

9.4 Atom inclusion (i)



At the recommended contour level, 72% of all backbone atoms, 62% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.0336) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6230	0.3580
0	0.7070	0.4190
1	0.4270	0.1720
2	0.4060	0.2280
3	0.5740	0.2790
4	0.5240	0.3320
5	0.6560	0.3430
6	0.5060	0.2500
7	0.3210	0.1730
8	0.5410	0.3120
9	0.5620	0.3400
AA	0.0840	0.1490
AB	0.3510	0.2790
AC	0.0760	0.0730
B	0.8100	0.4750
C	0.8200	0.4900
D	0.7970	0.4650
E	0.8200	0.4670
F	0.7900	0.4770
G	0.8110	0.4780
H	0.7030	0.4060
I	0.6540	0.3830
J	0.6920	0.3980
K	0.6740	0.3960
L	0.6910	0.3930
M	0.7070	0.4190
N	0.4280	0.1710
O	0.4070	0.2280
P	0.5740	0.2800
Q	0.5240	0.3330
R	0.6560	0.3420
S	0.5070	0.2500
T	0.3210	0.1720
U	0.5420	0.3150
V	0.5610	0.3400

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Chain	Atom inclusion	Q-score
W	0.0840	0.1470
X	0.8020	0.4730
Y	0.3510	0.2760
Z	0.0760	0.0720
a	0.8350	0.4930
b	0.8270	0.4920
c	0.8380	0.4950
d	0.8390	0.4920
e	0.8540	0.4970
f	0.8360	0.4880
g	0.8450	0.4940
h	0.8060	0.4770
i	0.8220	0.4870
j	0.7980	0.4650
k	0.8360	0.4740
l	0.7940	0.4800
m	0.8160	0.4790
n	0.7990	0.4740
o	0.8360	0.4930
p	0.8270	0.4930
q	0.8380	0.4970
r	0.8400	0.4920
s	0.8550	0.4950
t	0.8340	0.4880
u	0.8440	0.4940
v	0.7050	0.4080
w	0.6530	0.3820
x	0.6920	0.3990
y	0.6750	0.3960
z	0.6910	0.3930