Full wwPDB EM Validation Report

May 19, 2025 – 05:37 AM EDT

PDB ID	:	6WH3 / pdb_00006wh3
EMDB ID	:	EMD-21667
Title	:	Capsid structure of Penaeus monodon metallodensovirus at pH 8.2
Authors	:	Penzes, J.J.; Pham, H.T.; Chipman, P.; Bhattacharya, N.; McKenna, R.; Agbandje-McKenna, M.; Tijssen, P.
Deposited on	:	2020-04-07
Resolution	:	2.96 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:

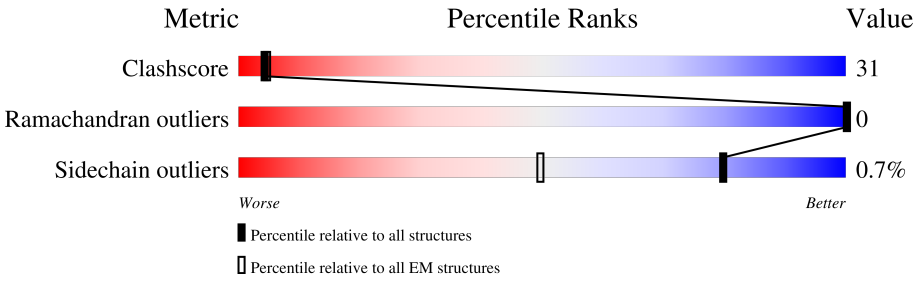
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.43.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.96 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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	1	369	46% 44% • 9%
1	2	369	45% 44% • 9%
1	3	369	46% 44% • 9%
1	4	369	45% 44% • 9%
1	5	369	45% 44% • 9%
1	6	369	46% 43% • 9%
1	7	369	46% 43% • 9%
1	8	369	46% 44% • 9%

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Mol	Chain	Length	Quality of chain
1	A	369	46% 44% • 9%
1	B	369	46% 44% • 9%
1	C	369	46% 43% • 9%
1	D	369	46% 44% • 9%
1	E	369	46% 43% • 9%
1	F	369	46% 43% • 9%
1	G	369	46% 43% • 9%
1	H	369	46% 44% • 9%
1	I	369	46% 44% • 9%
1	J	369	47% 43% • 9%
1	K	369	46% 43% • 9%
1	L	369	45% 44% • 9%
1	M	369	46% 44% • 9%
1	N	369	46% 44% • 9%
1	O	369	46% 44% • 9%
1	P	369	46% 44% • 9%
1	Q	369	46% 44% • 9%
1	R	369	46% 43% • 9%
1	S	369	46% 44% • 9%
1	T	369	46% 44% • 9%
1	U	369	46% 44% • 9%
1	V	369	45% 44% • 9%
1	W	369	46% 44% • 9%
1	X	369	46% 44% • 9%
1	Y	369	46% 44% • 9%

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Mol	Chain	Length	Quality of chain
1	Z	369	46% 43% • 9%
1	a	369	45% 44% • 9%
1	b	369	46% 44% • 9%
1	c	369	46% 44% • 9%
1	d	369	46% 44% • 9%
1	e	369	46% 44% • 9%
1	f	369	46% 43% • 9%
1	g	369	46% 43% • 9%
1	h	369	46% 44% • 9%
1	i	369	46% 44% • 9%
1	j	369	47% 43% • 9%
1	k	369	46% 44% • 9%
1	l	369	46% 43% • 9%
1	m	369	45% 44% • 9%
1	n	369	46% 43% • 9%
1	o	369	45% 44% • 9%
1	p	369	46% 44% • 9%
1	q	369	46% 43% • 9%
1	r	369	46% 44% • 9%
1	s	369	46% 44% • 9%
1	t	369	46% 44% • 9%
1	u	369	46% 43% • 9%
1	v	369	46% 44% • 9%
1	w	369	46% 44% • 9%
1	x	369	46% 44% • 9%

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Mol	Chain	Length	Quality of chain
1	y	369	46% 44% 9%
1	z	369	46% 44% 9%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 157740 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 Penaeus monodon metallodensovirus major capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	B	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	C	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	D	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	E	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	F	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	G	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	H	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	I	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	J	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	K	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	L	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	M	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	N	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	O	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	P	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	Q	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	S	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	T	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	U	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	V	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	W	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	X	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	Y	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	Z	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	8	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	7	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	6	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	5	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	4	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	3	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	a	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	b	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	c	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	d	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	e	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	f	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	h	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	i	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	j	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	k	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	l	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	m	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	n	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	o	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	p	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	q	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	r	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	s	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	t	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	u	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	v	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	w	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	x	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	y	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	z	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		
1	1	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	2	334	Total	C	N	O	S	0	0
			2628	1659	453	502	14		

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
2	A	1	Total	Ca	0
			1	1	
2	B	1	Total	Ca	0
			1	1	
2	C	1	Total	Ca	0
			1	1	
2	D	1	Total	Ca	0
			1	1	
2	E	1	Total	Ca	0
			1	1	
2	F	1	Total	Ca	0
			1	1	
2	G	1	Total	Ca	0
			1	1	
2	H	1	Total	Ca	0
			1	1	
2	I	1	Total	Ca	0
			1	1	
2	J	1	Total	Ca	0
			1	1	
2	K	1	Total	Ca	0
			1	1	
2	L	1	Total	Ca	0
			1	1	
2	M	1	Total	Ca	0
			1	1	
2	N	1	Total	Ca	0
			1	1	
2	O	1	Total	Ca	0
			1	1	
2	P	1	Total	Ca	0
			1	1	
2	Q	1	Total	Ca	0
			1	1	
2	R	1	Total	Ca	0
			1	1	

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Mol	Chain	Residues	Atoms	AltConf
2	S	1	Total Ca 1 1	0
2	T	1	Total Ca 1 1	0
2	U	1	Total Ca 1 1	0
2	V	1	Total Ca 1 1	0
2	W	1	Total Ca 1 1	0
2	X	1	Total Ca 1 1	0
2	Y	1	Total Ca 1 1	0
2	Z	1	Total Ca 1 1	0
2	8	1	Total Ca 1 1	0
2	7	1	Total Ca 1 1	0
2	6	1	Total Ca 1 1	0
2	5	1	Total Ca 1 1	0
2	4	1	Total Ca 1 1	0
2	3	1	Total Ca 1 1	0
2	a	1	Total Ca 1 1	0
2	b	1	Total Ca 1 1	0
2	c	1	Total Ca 1 1	0
2	d	1	Total Ca 1 1	0
2	e	1	Total Ca 1 1	0
2	f	1	Total Ca 1 1	0
2	g	1	Total Ca 1 1	0

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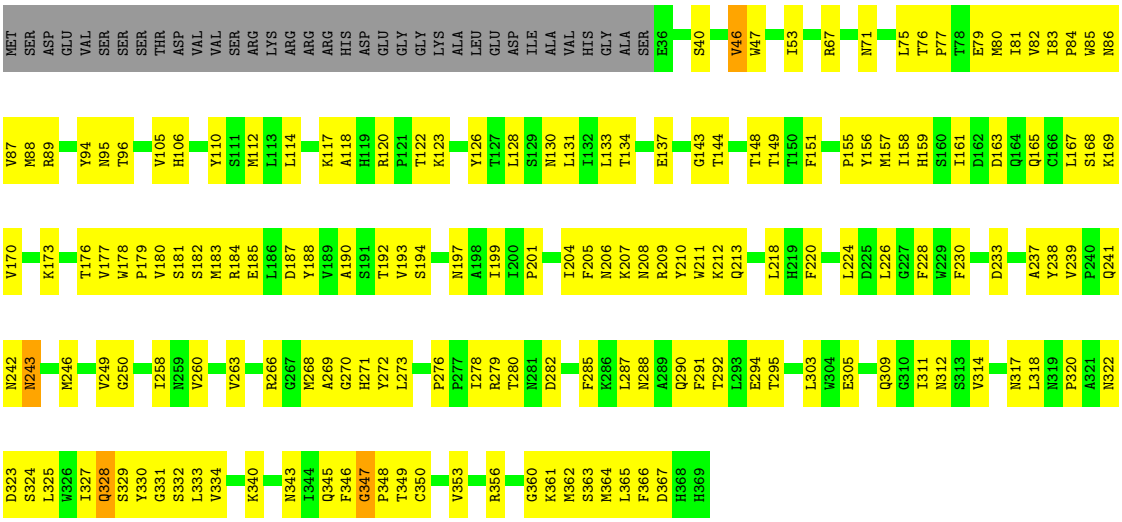
Mol	Chain	Residues	Atoms	AltConf
2	h	1	Total Ca 1 1	0
2	i	1	Total Ca 1 1	0
2	j	1	Total Ca 1 1	0
2	k	1	Total Ca 1 1	0
2	l	1	Total Ca 1 1	0
2	m	1	Total Ca 1 1	0
2	n	1	Total Ca 1 1	0
2	o	1	Total Ca 1 1	0
2	p	1	Total Ca 1 1	0
2	q	1	Total Ca 1 1	0
2	r	1	Total Ca 1 1	0
2	s	1	Total Ca 1 1	0
2	t	1	Total Ca 1 1	0
2	u	1	Total Ca 1 1	0
2	v	1	Total Ca 1 1	0
2	w	1	Total Ca 1 1	0
2	x	1	Total Ca 1 1	0
2	y	1	Total Ca 1 1	0
2	z	1	Total Ca 1 1	0
2	1	1	Total Ca 1 1	0
2	2	1	Total Ca 1 1	0

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.

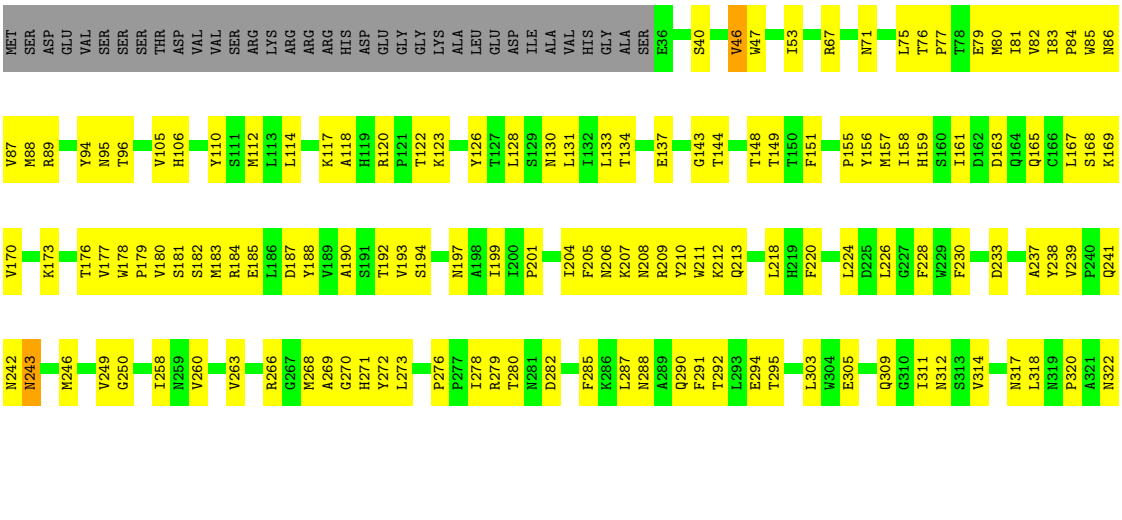
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain A:



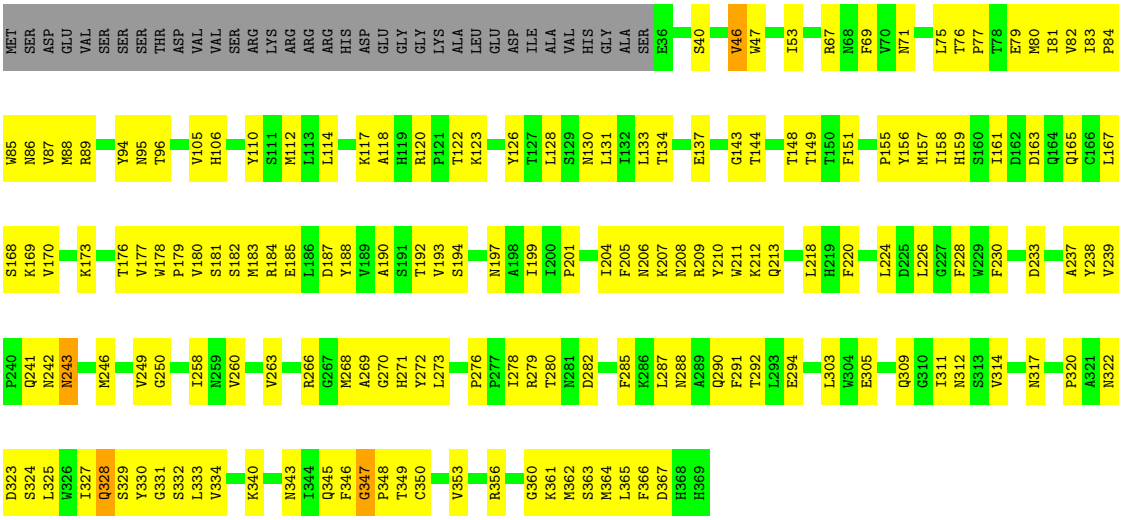
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain B:



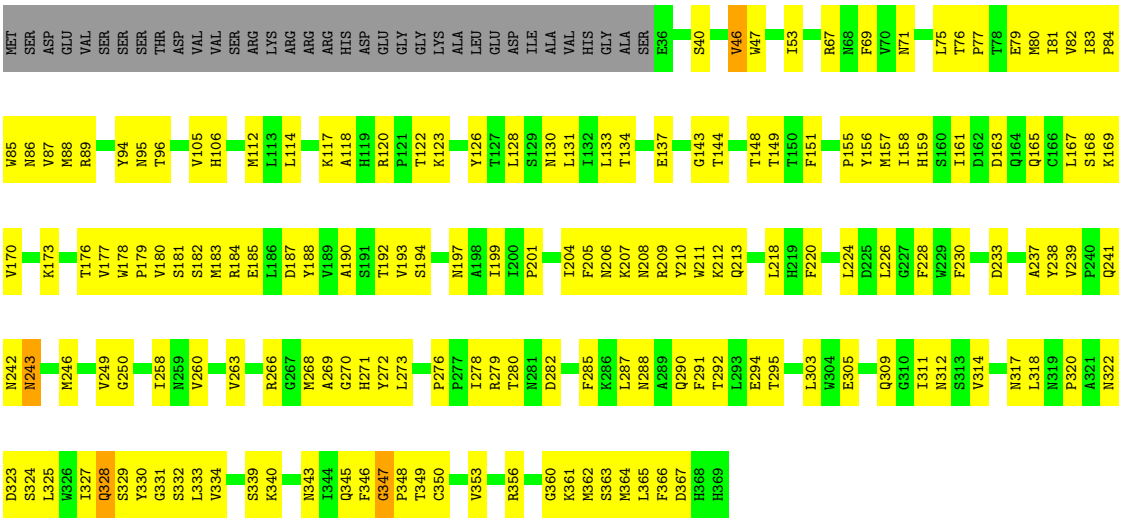
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain C:



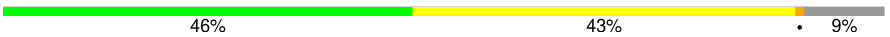
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

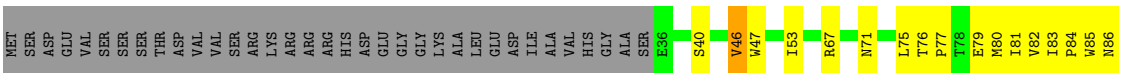
Chain D:

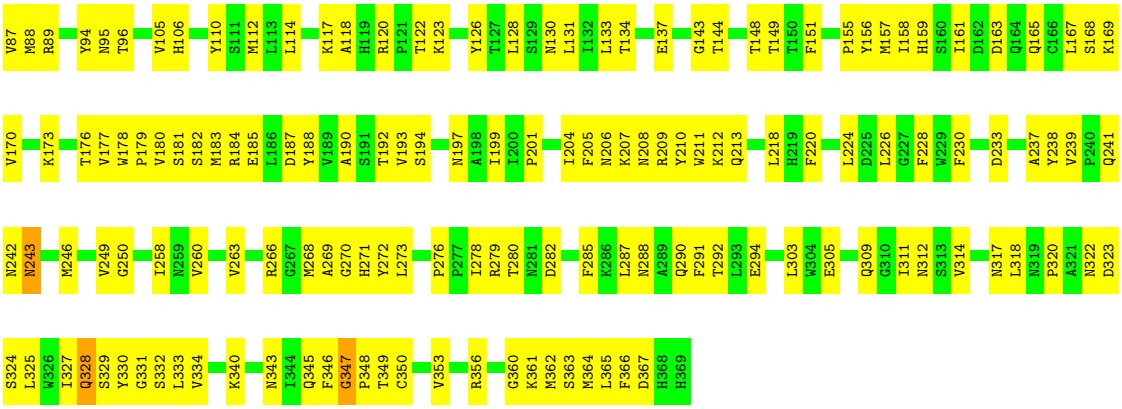


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain E:

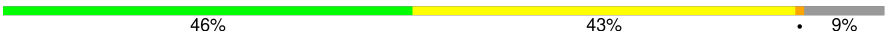


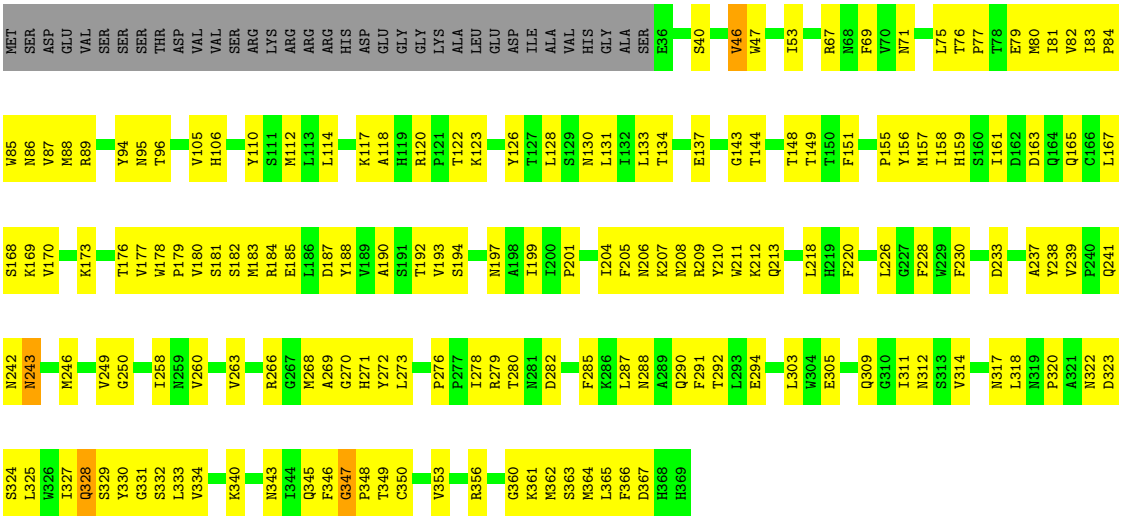




• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

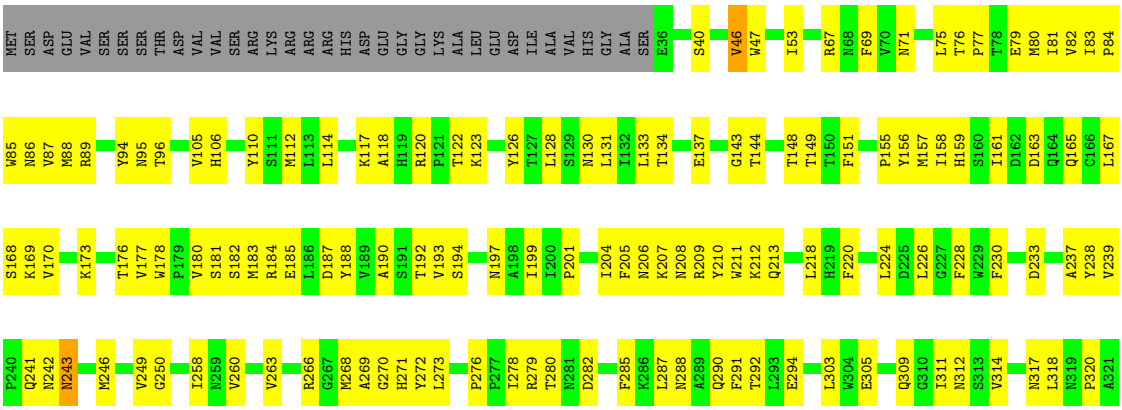
Chain F:

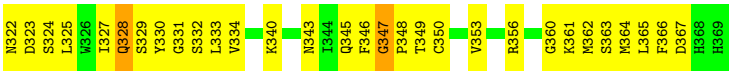




• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

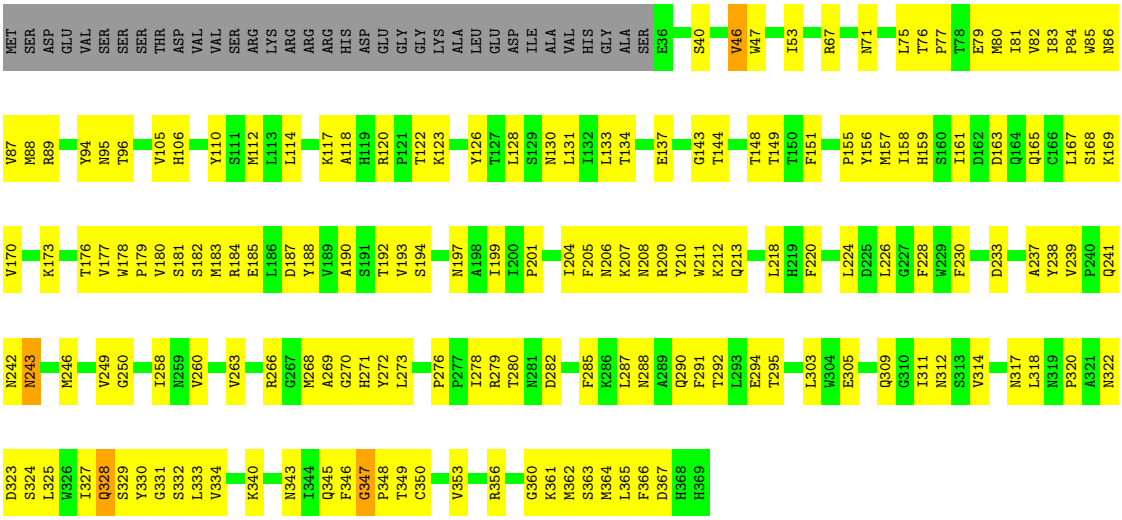
Chain G:





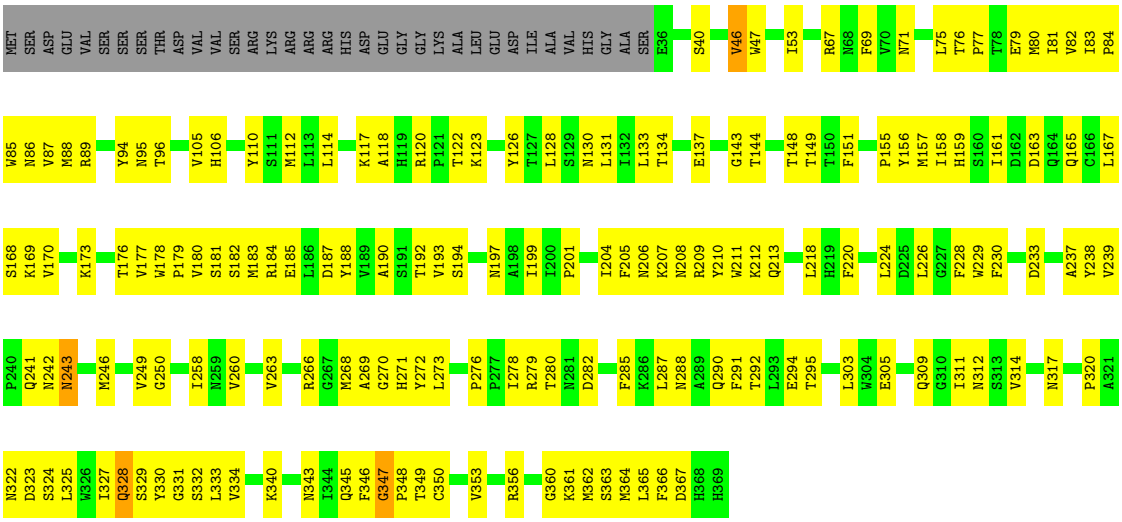
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain H:



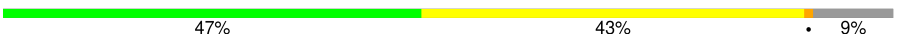
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

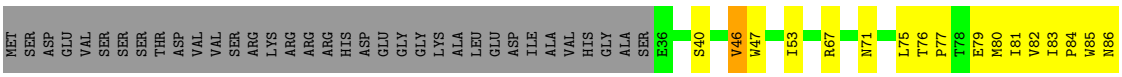
Chain I:

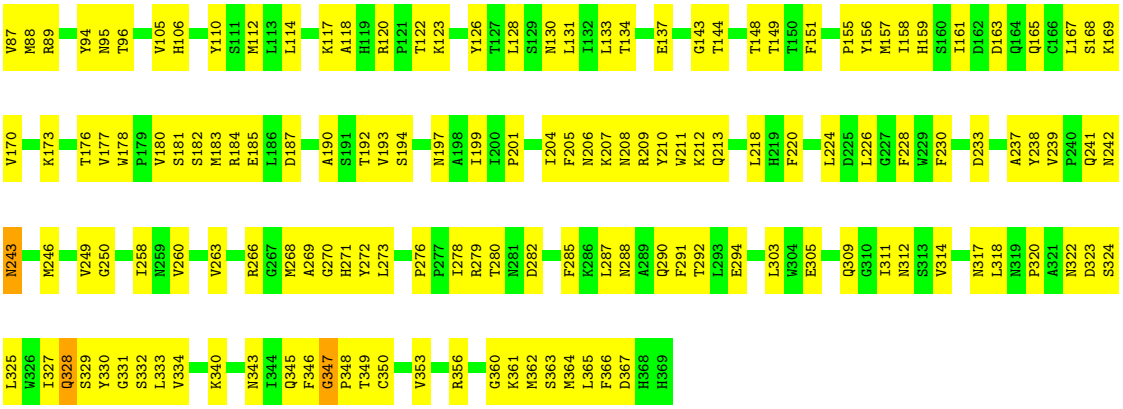


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain J:

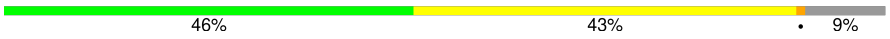


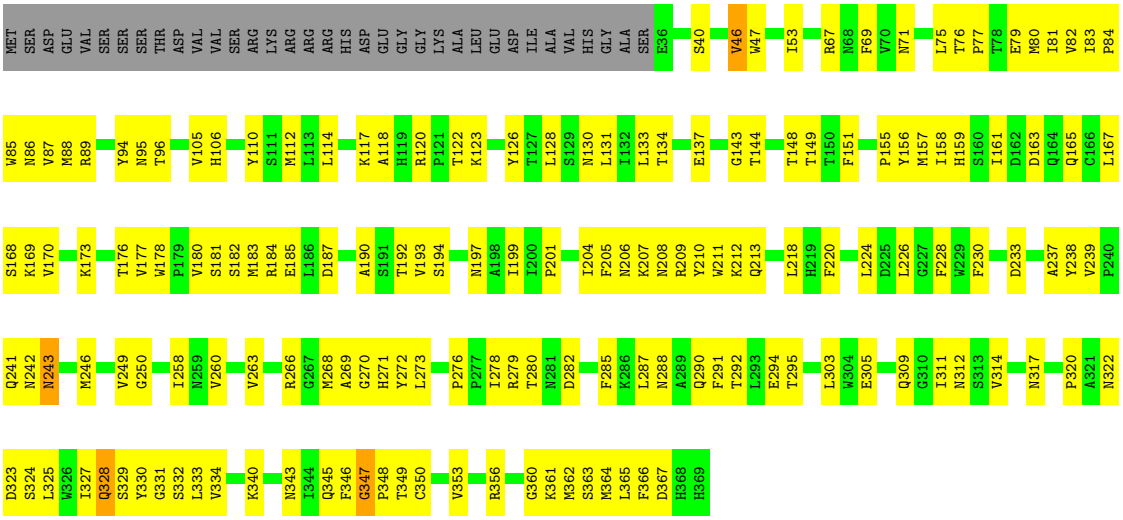




• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

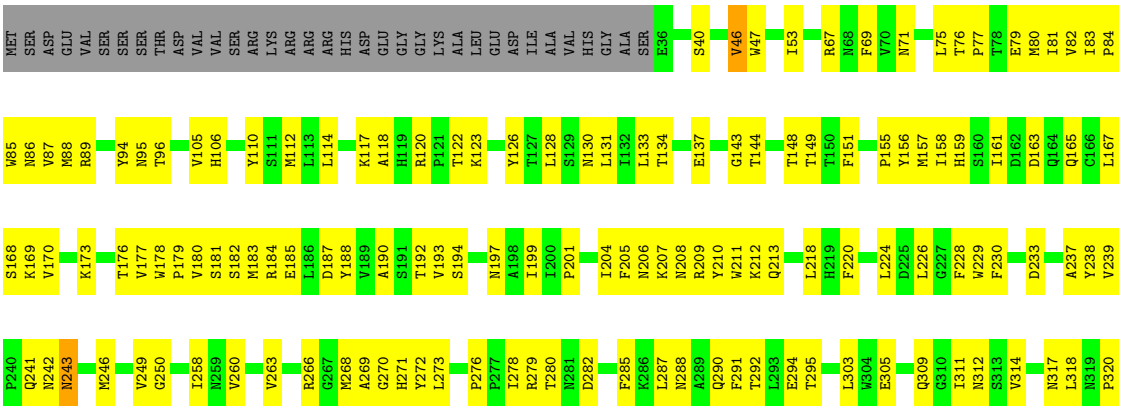
Chain K:





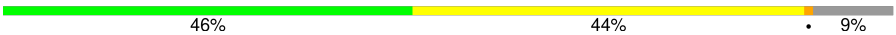
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

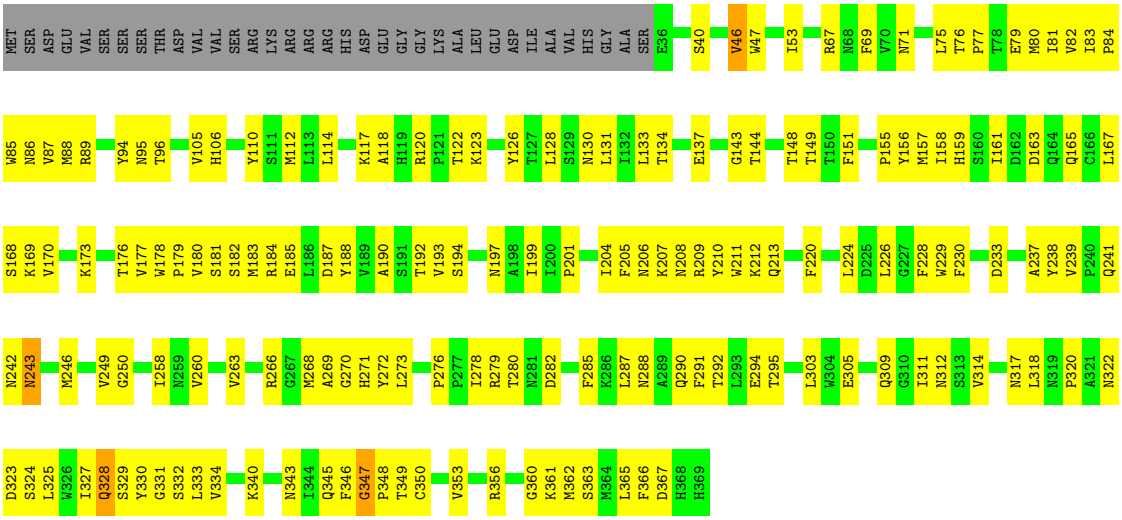
Chain L:



• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

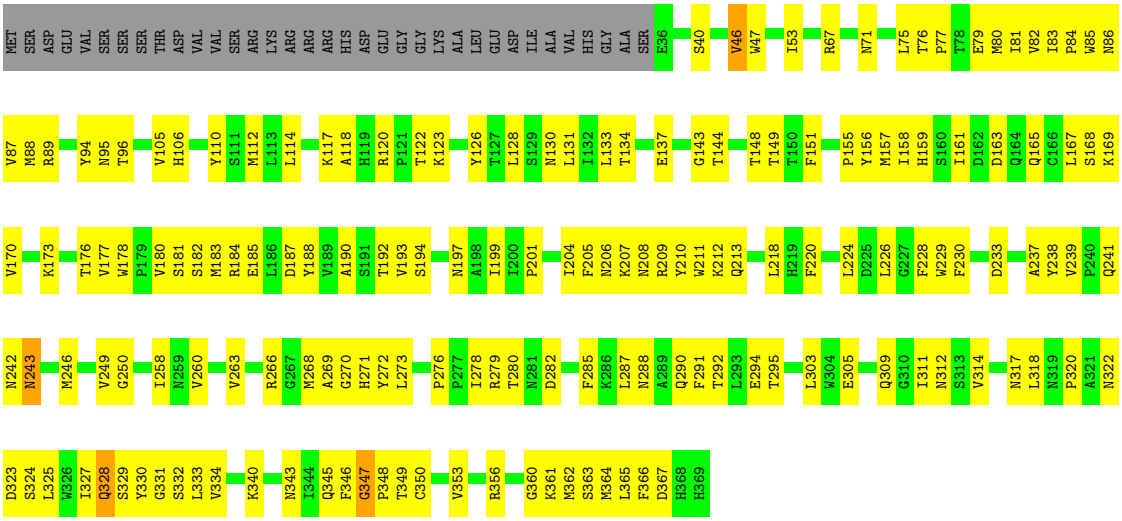
Chain M:





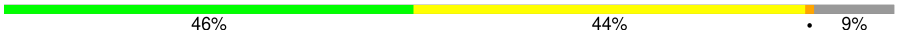
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

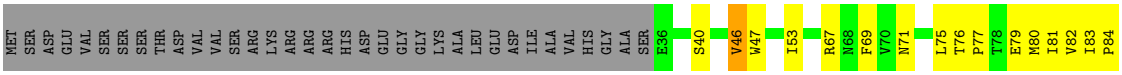
Chain N:

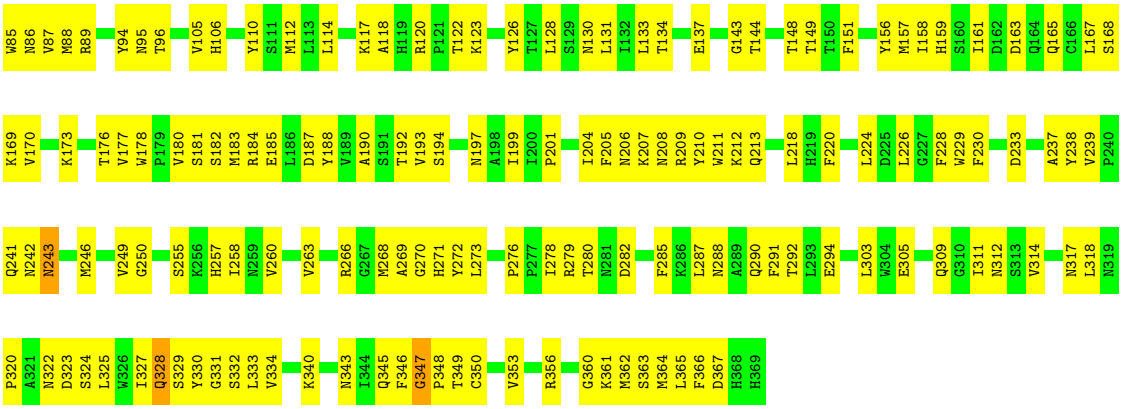


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain O:

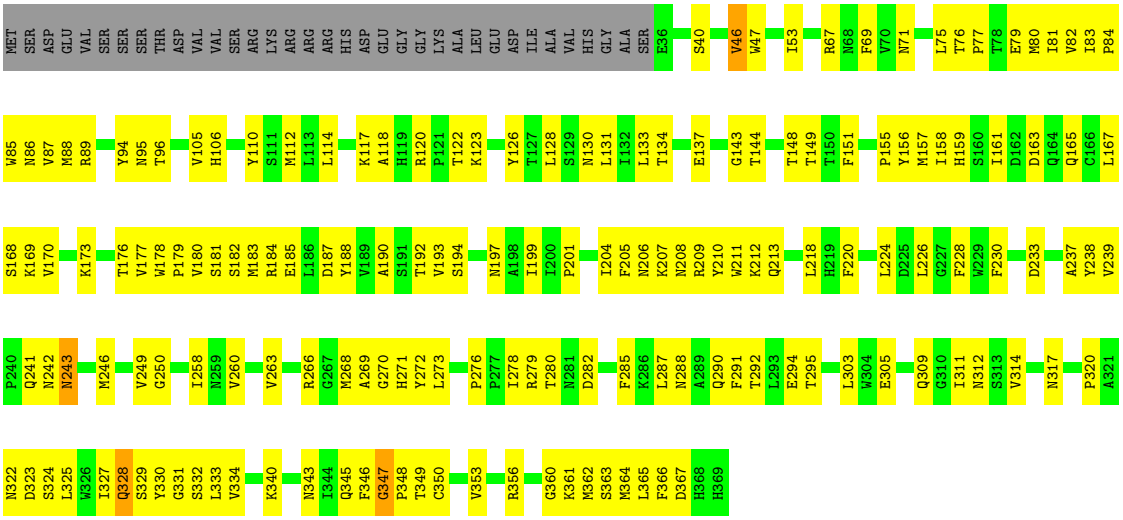






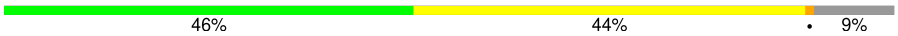
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

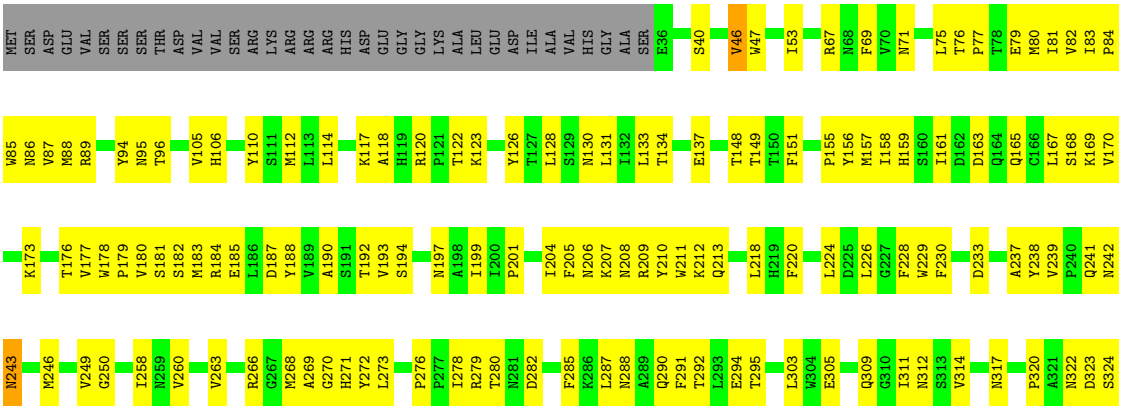
Chain P:

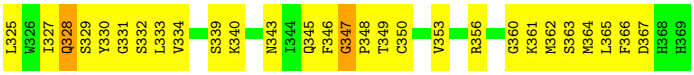


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain Q:

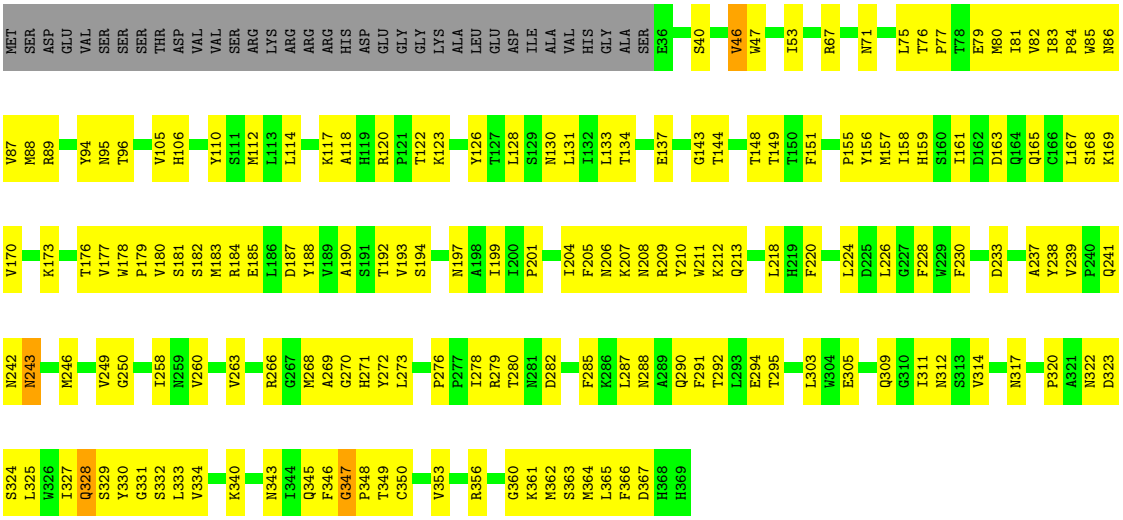






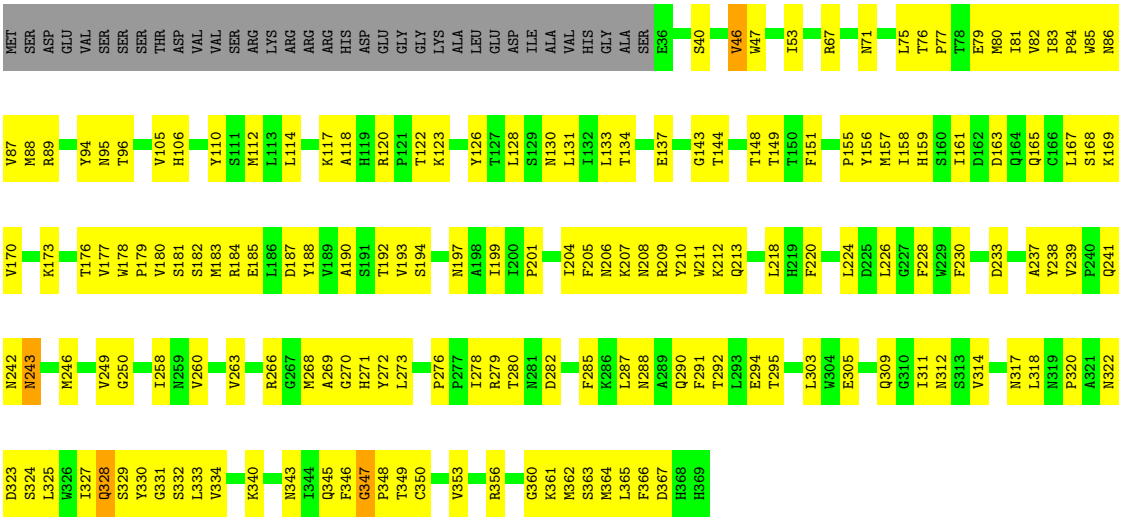
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain R:



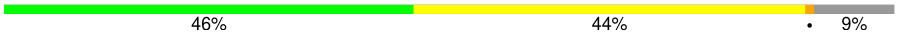
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

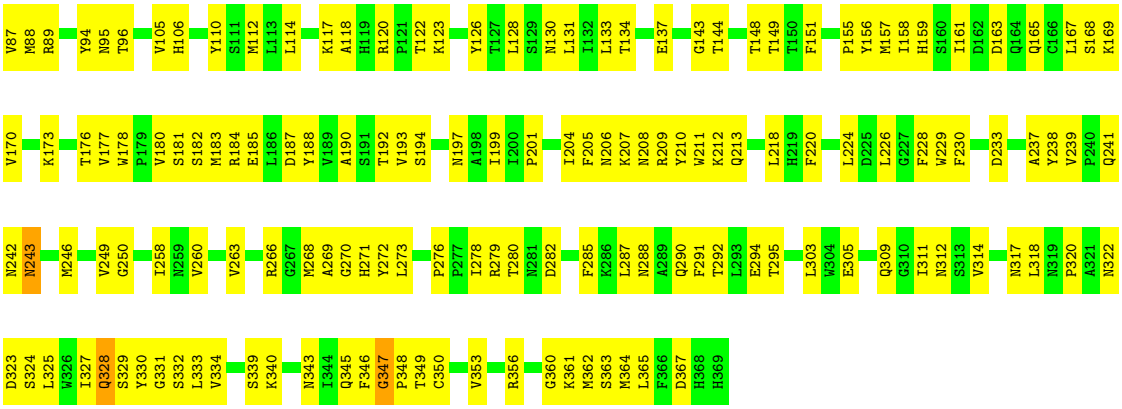
Chain S:



• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

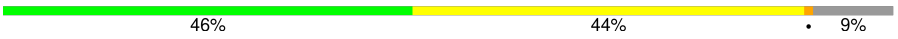
Chain T:

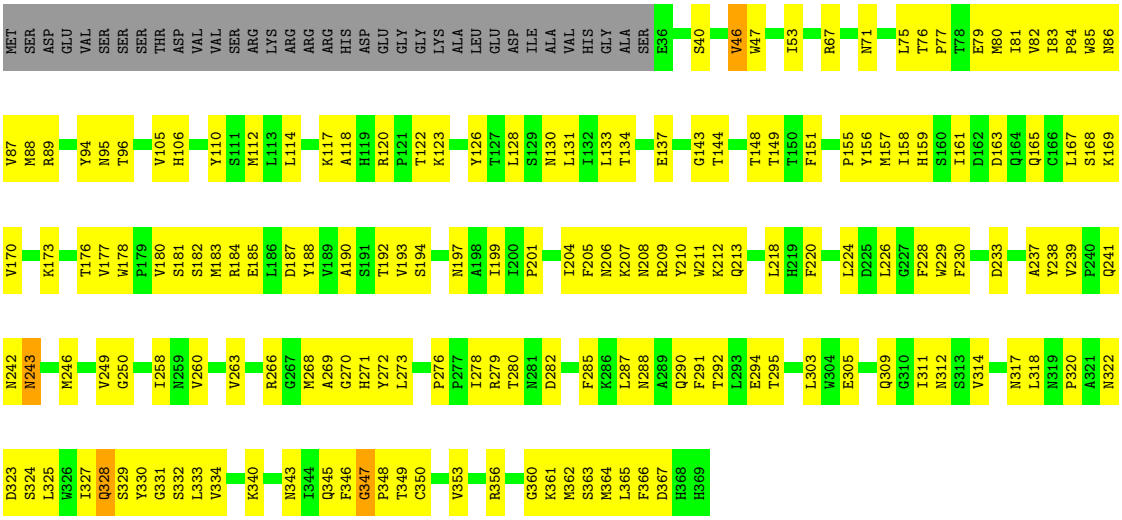




• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

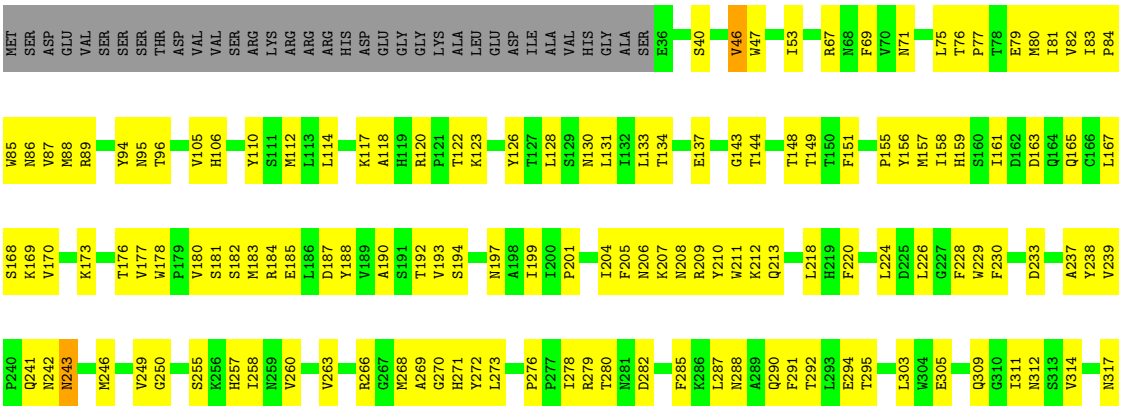
Chain U:





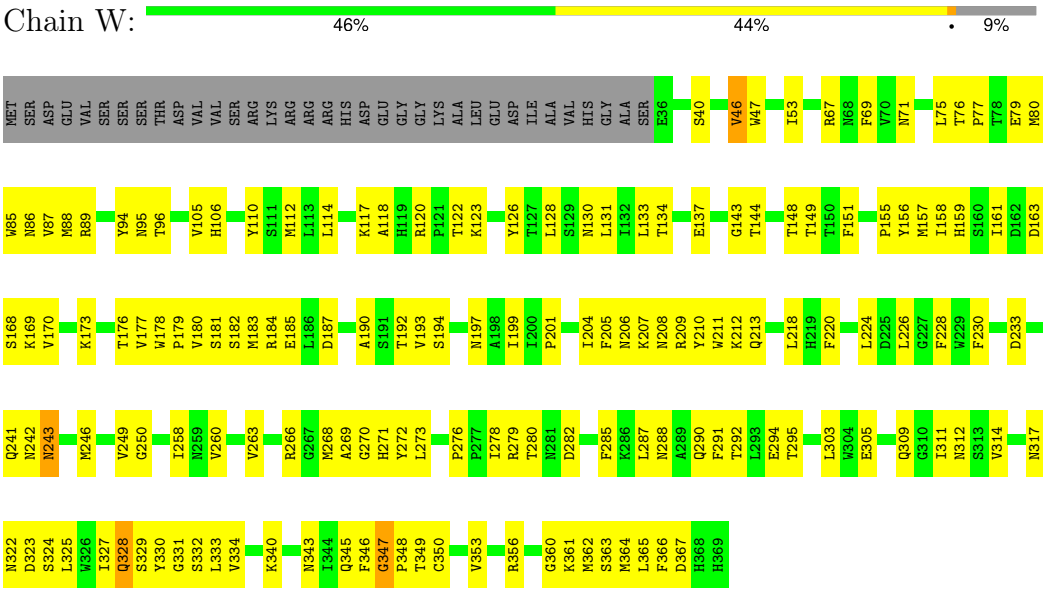
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain V:



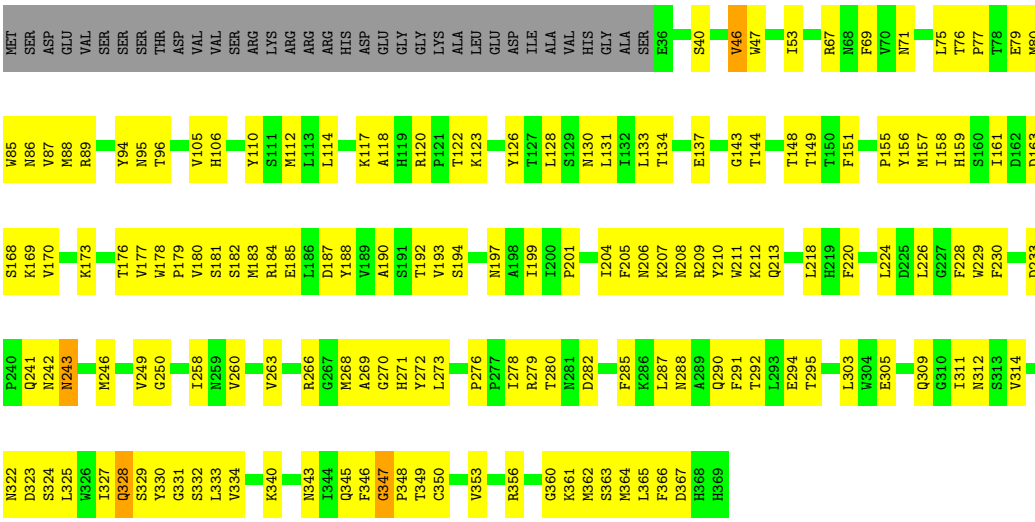
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain W:



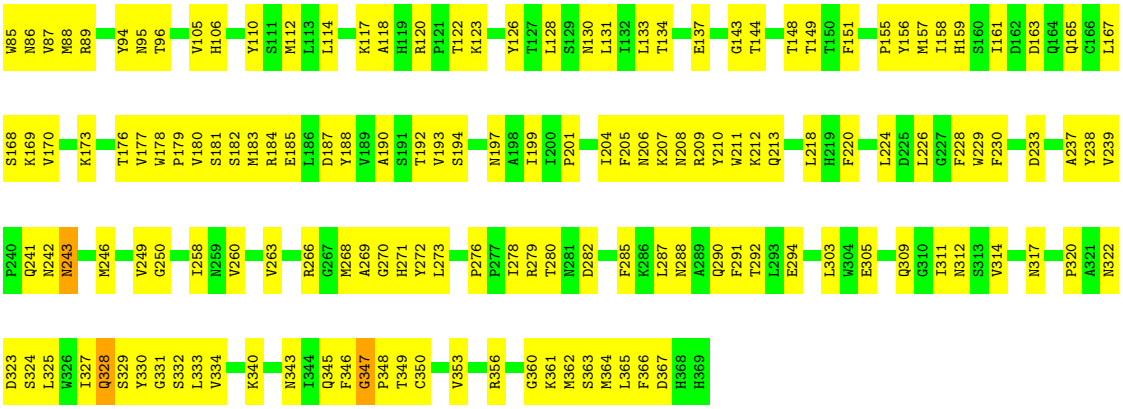
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain X:



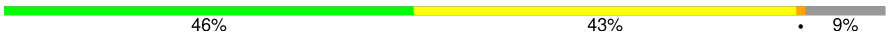
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

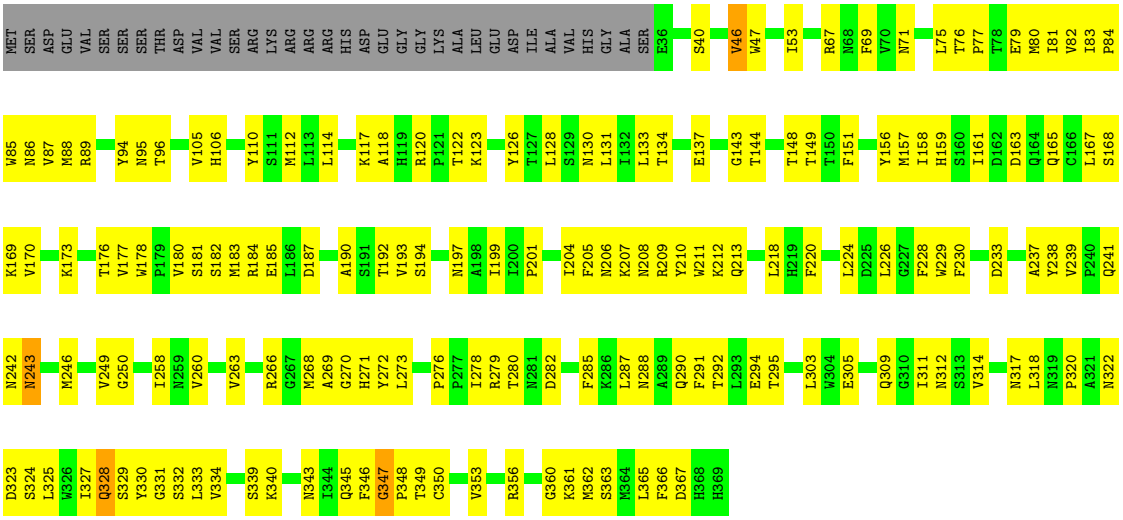
Chain Y:



• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

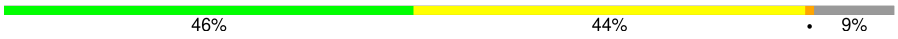
Chain Z:

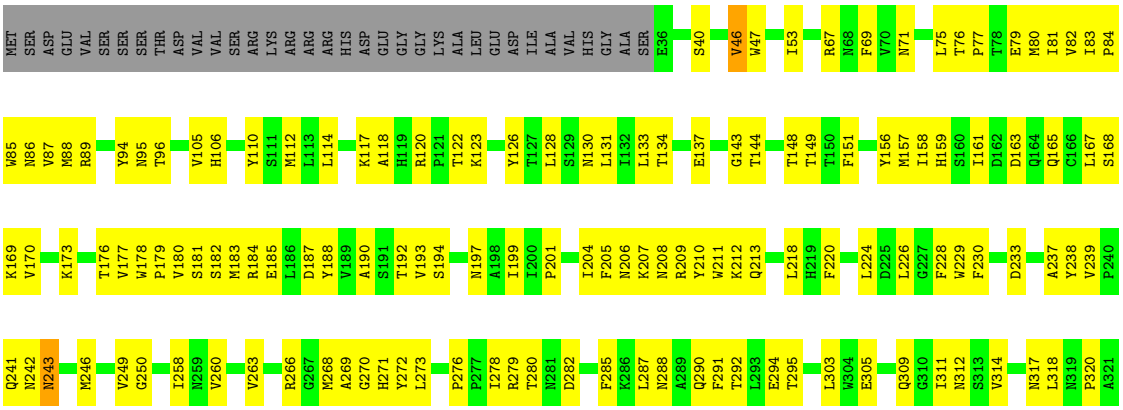


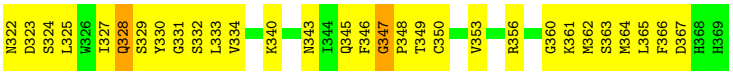


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain 8:

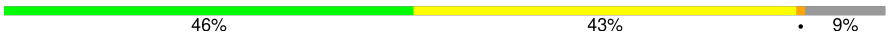


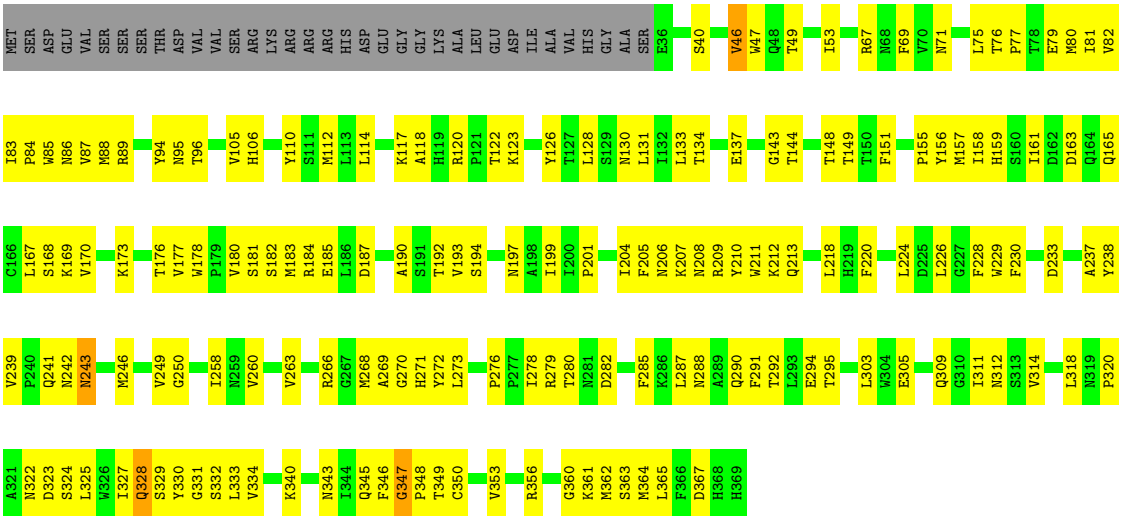




• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

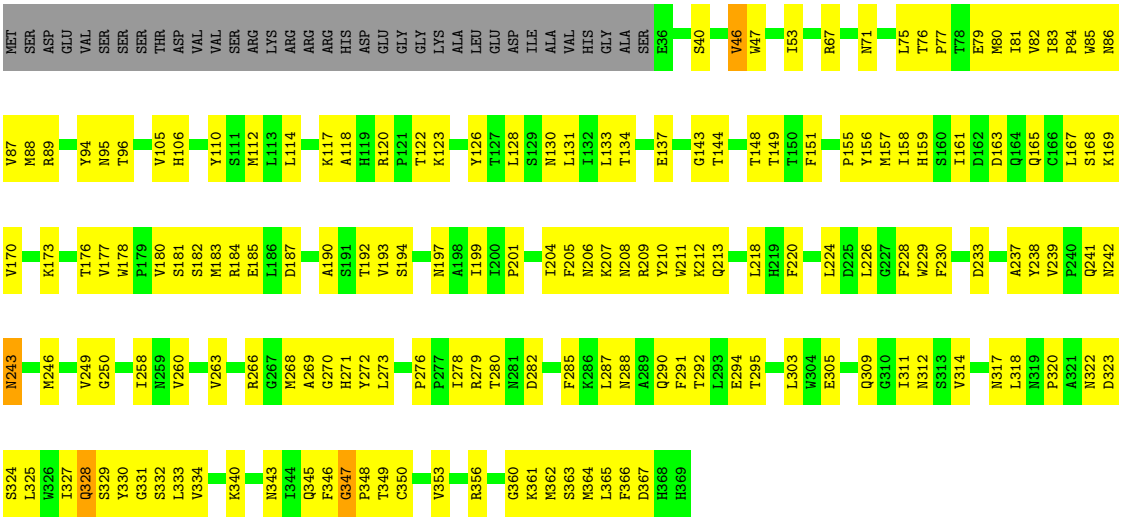
Chain 7:





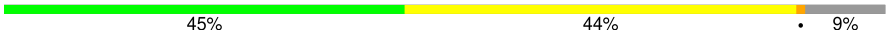
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

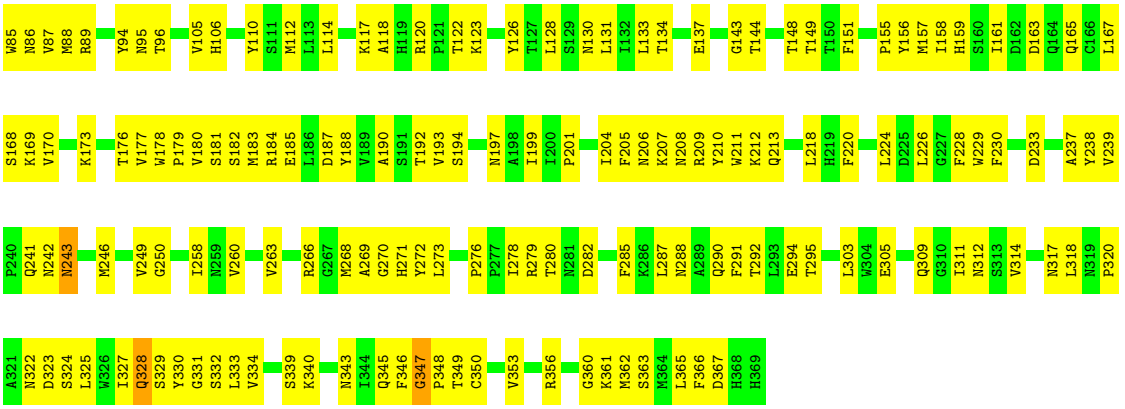
Chain 6:



• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain 5:





• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

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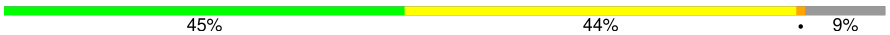

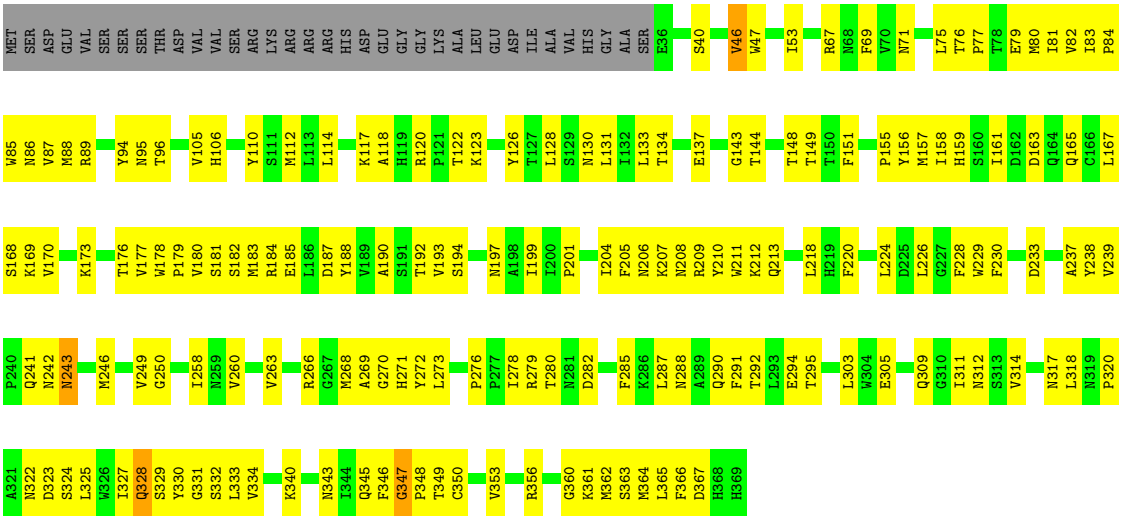

• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

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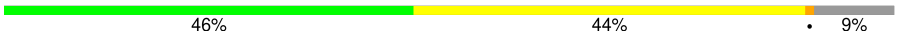
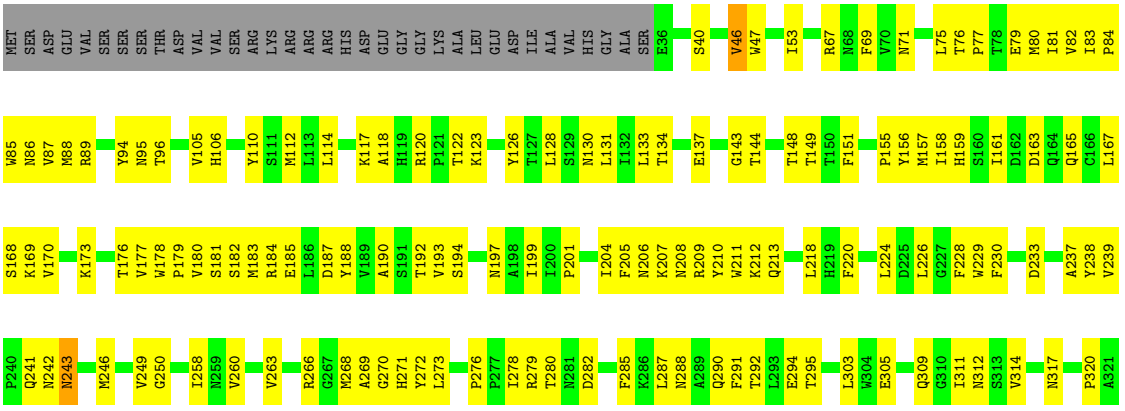
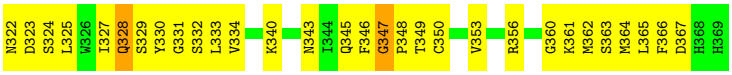
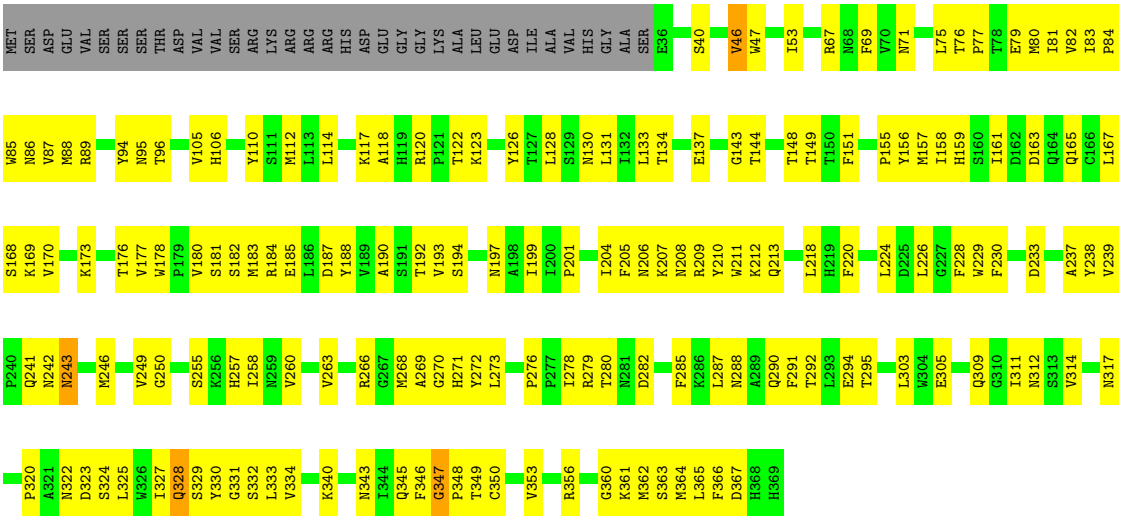






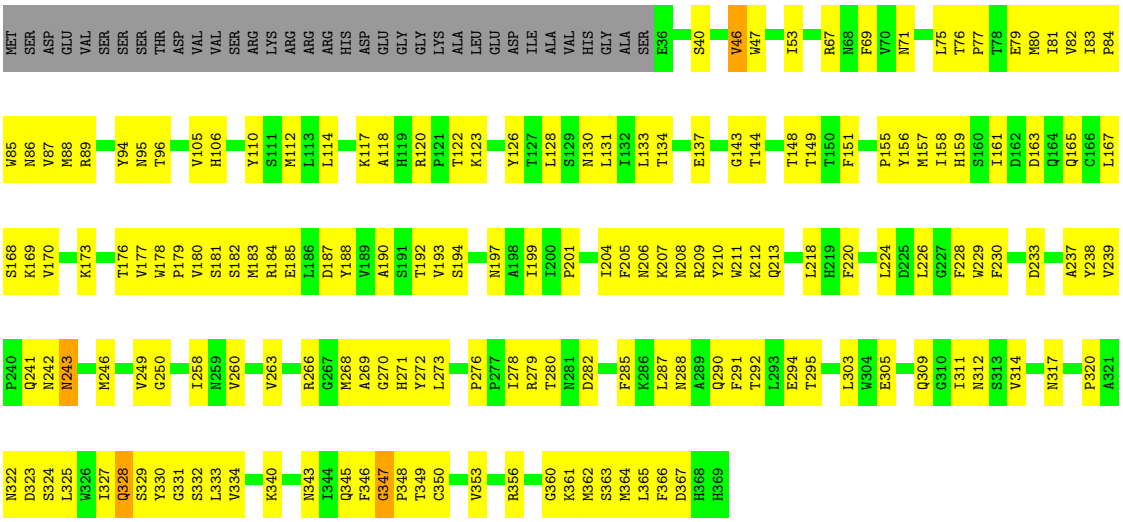
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain a:



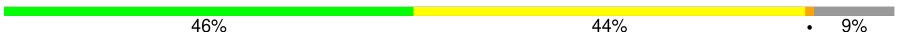
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

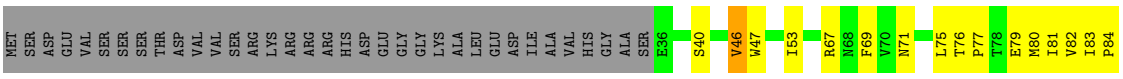
Chain b:

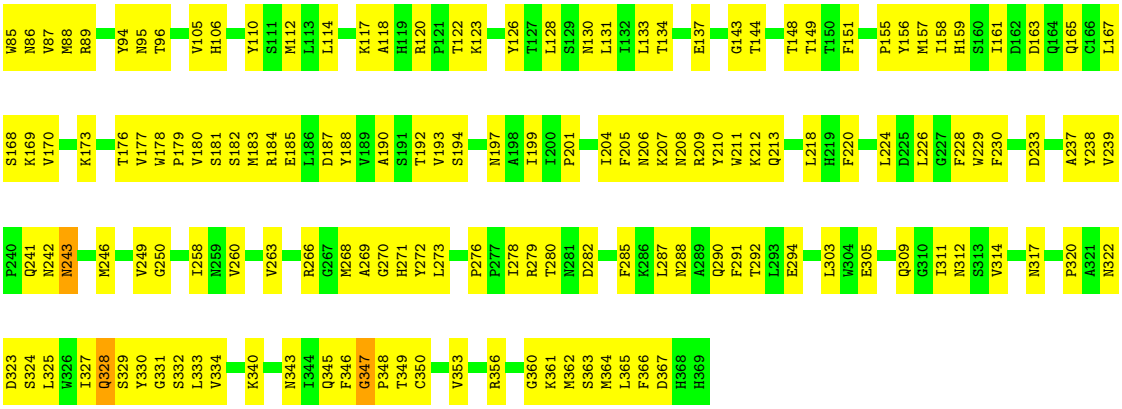


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain c:

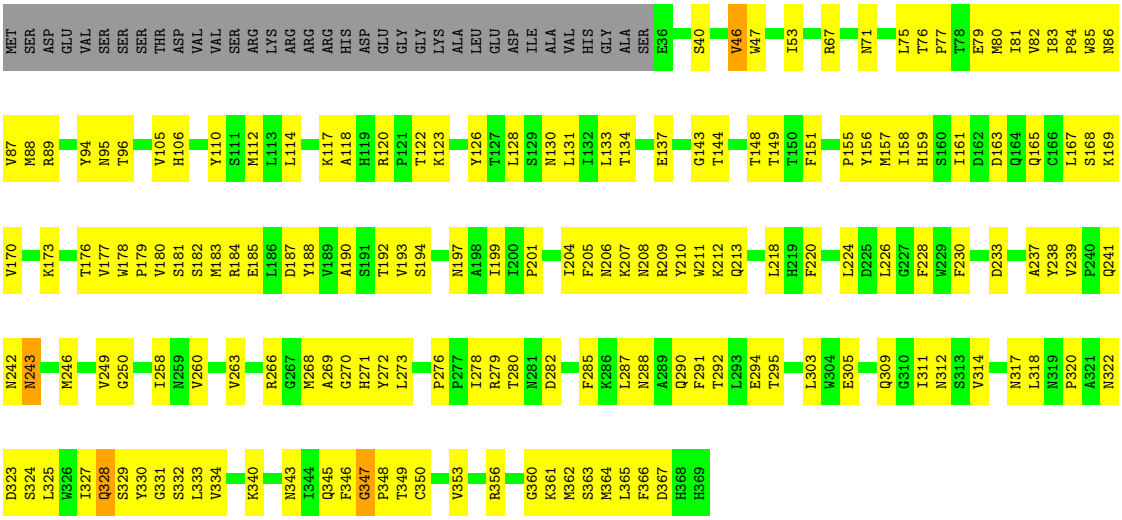






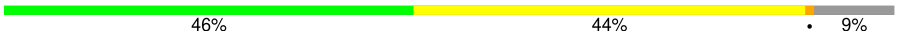
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

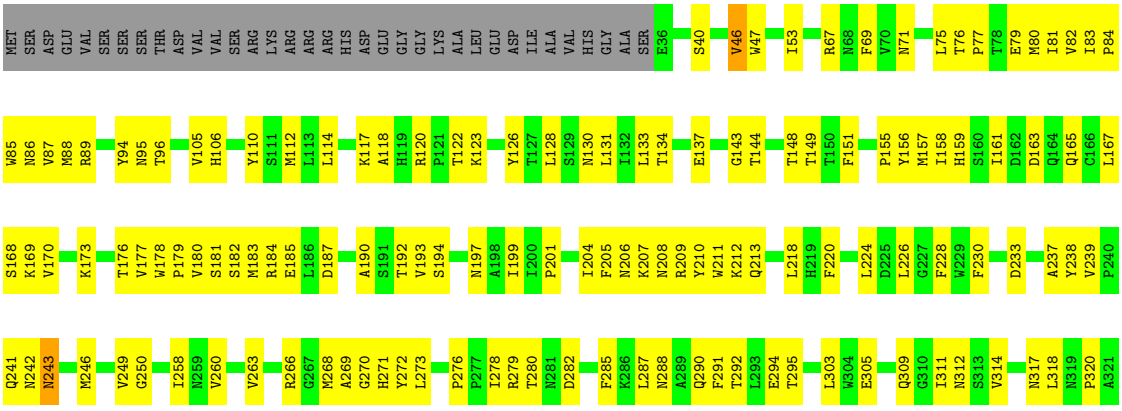
Chain d:

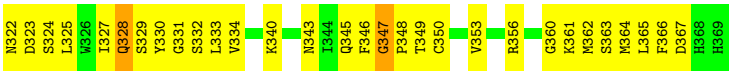


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain e:

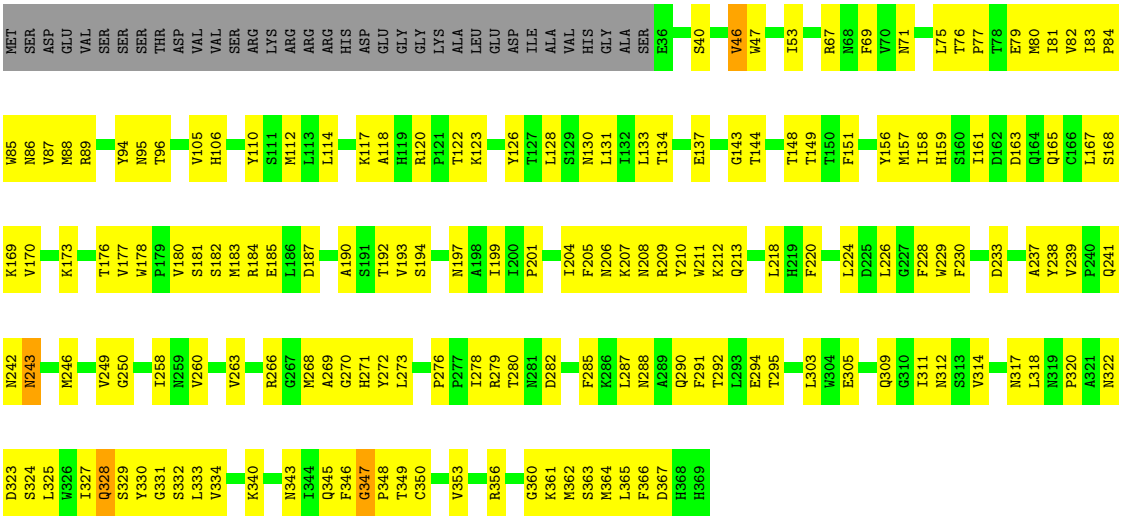






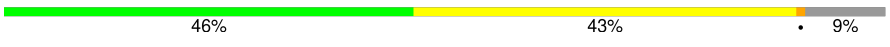
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

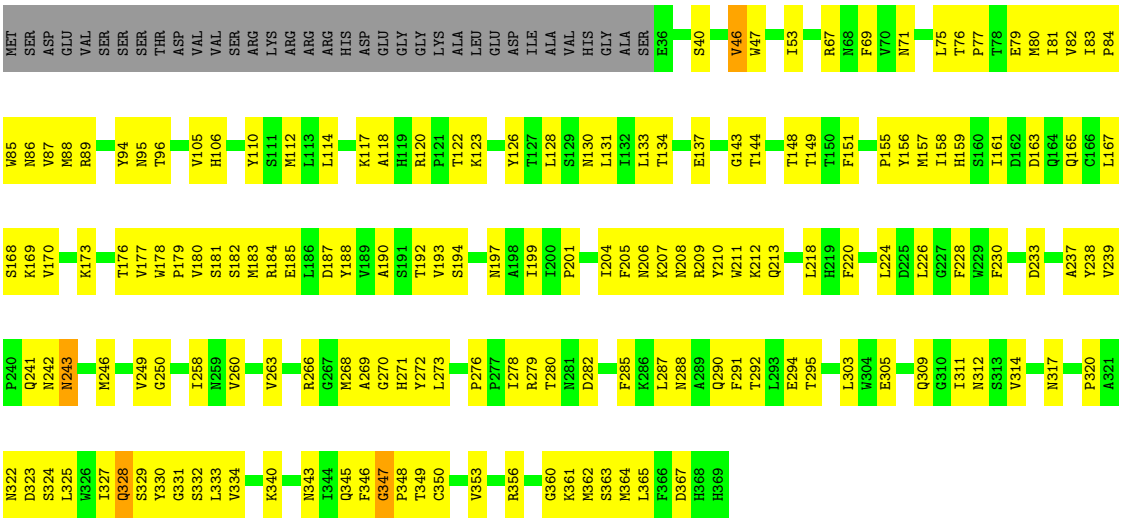
Chain f:



• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

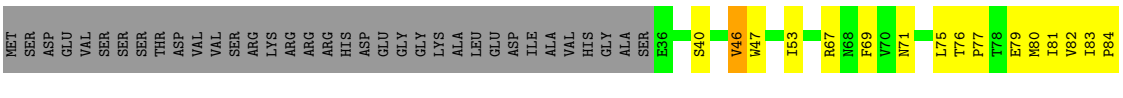
Chain g:

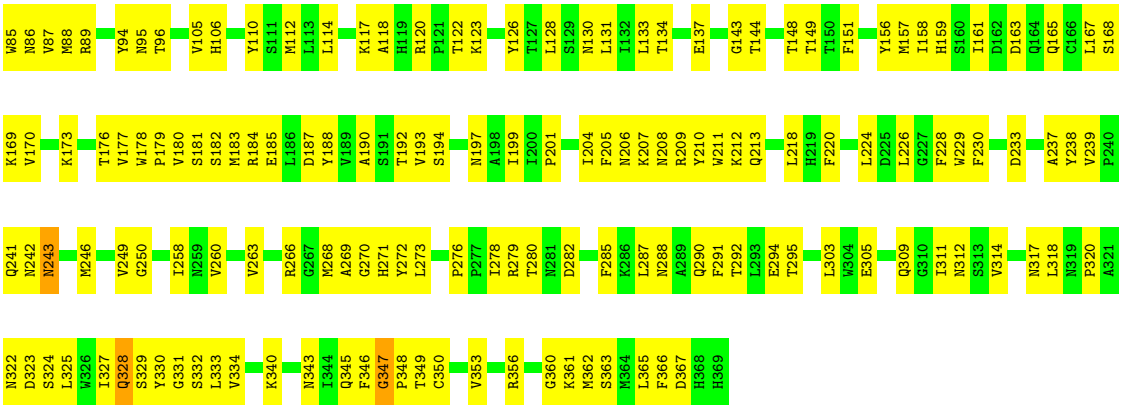




• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

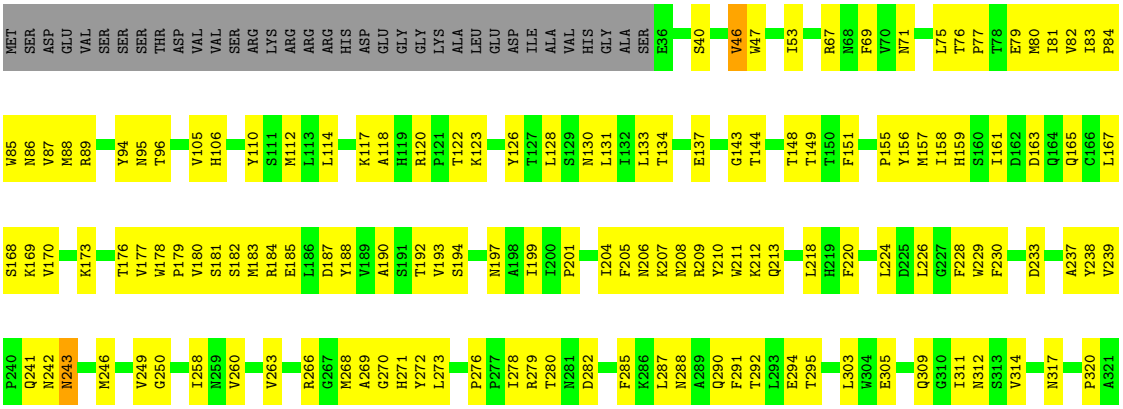
Chain h:





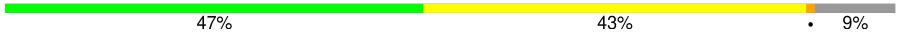
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

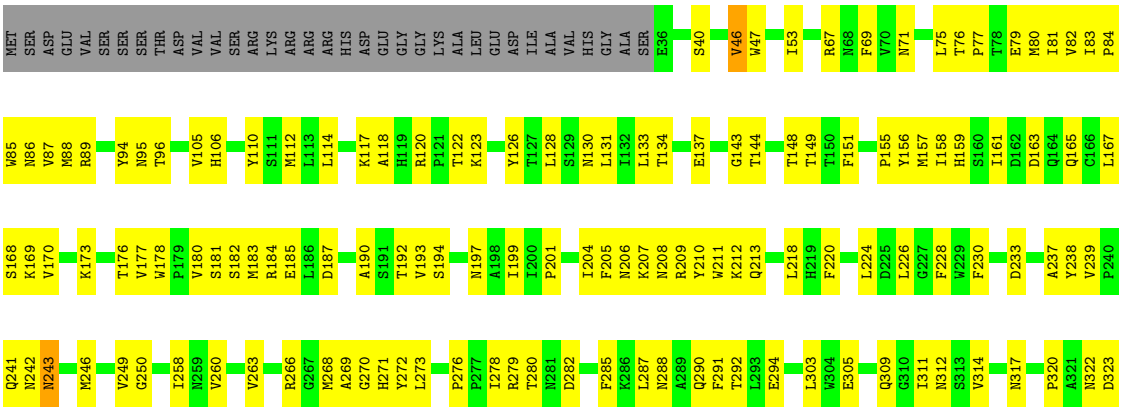
Chain i:

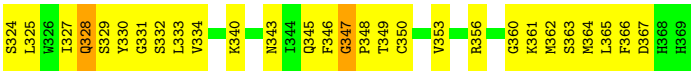


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain j:

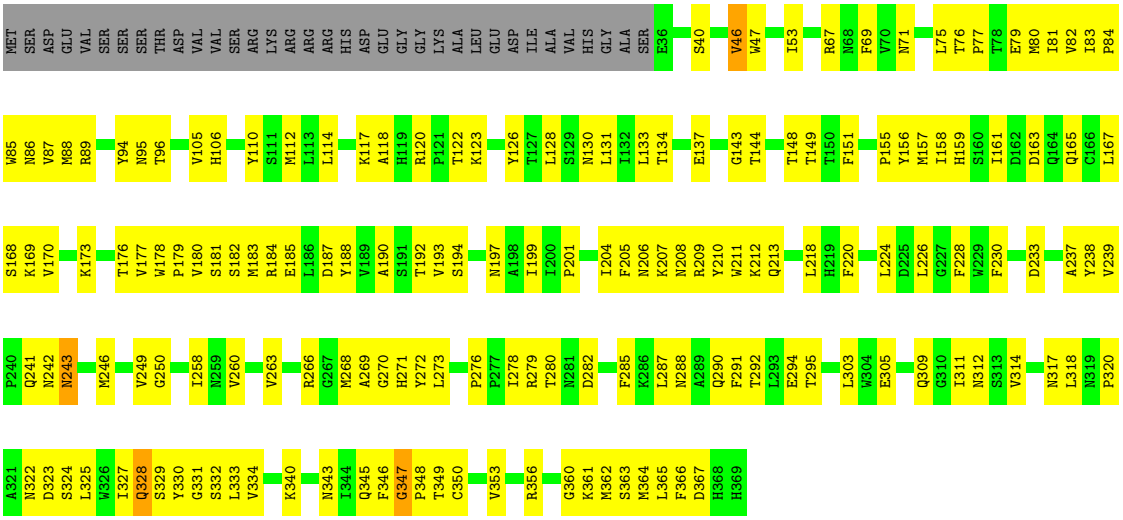






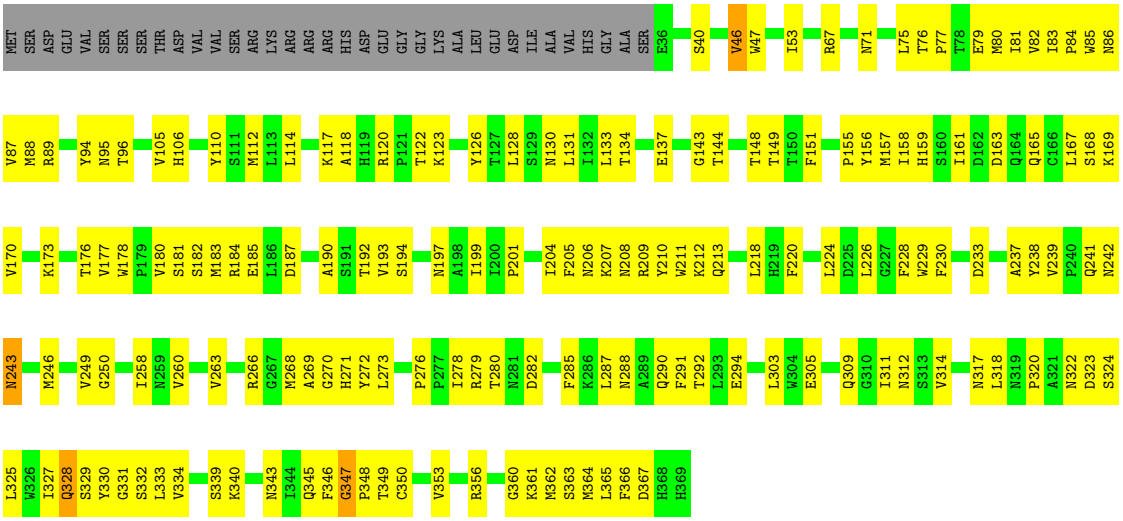
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain k:



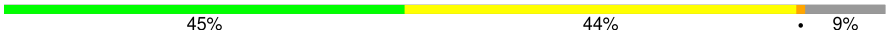
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

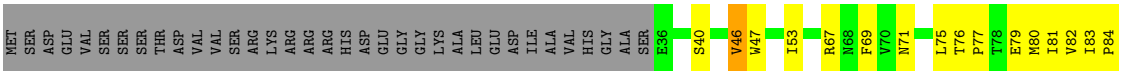
Chain l:

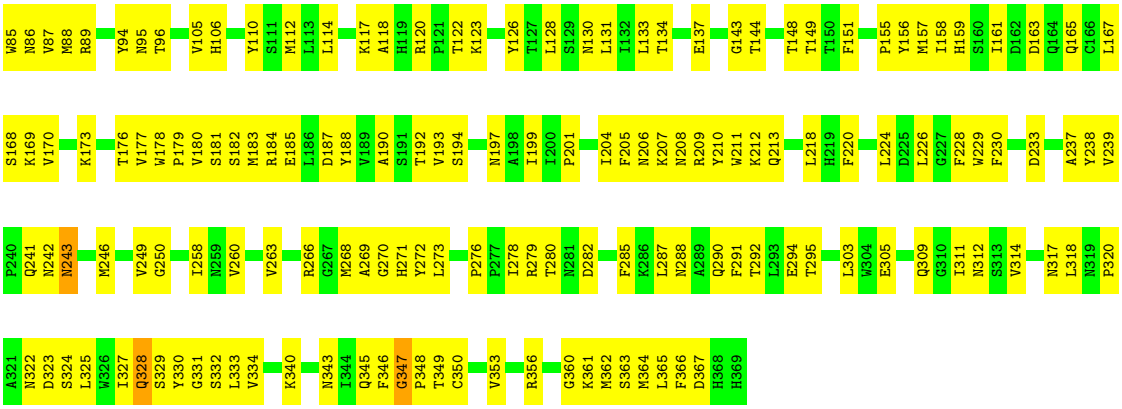


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain m:

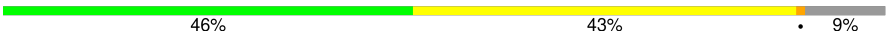


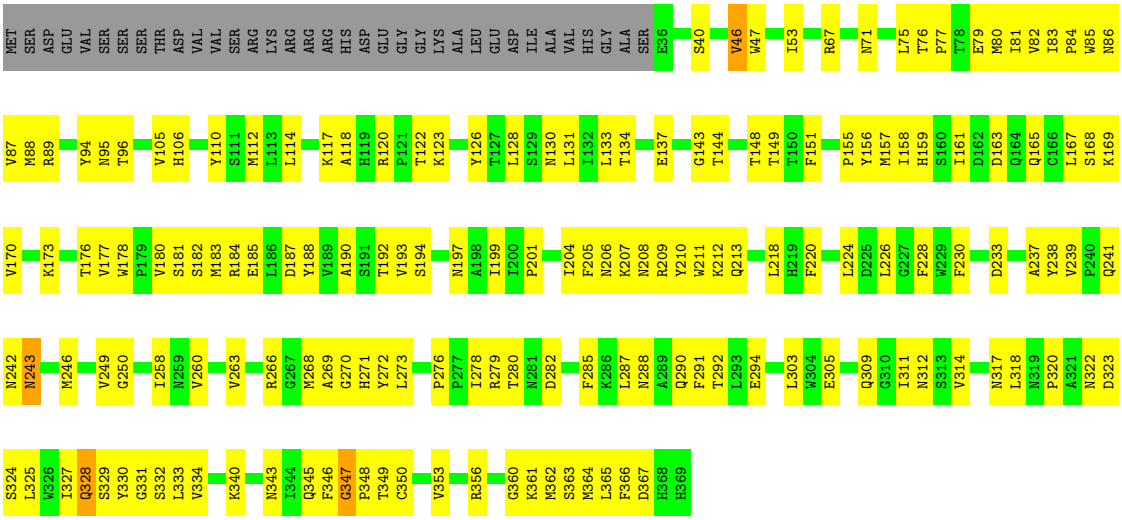




• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

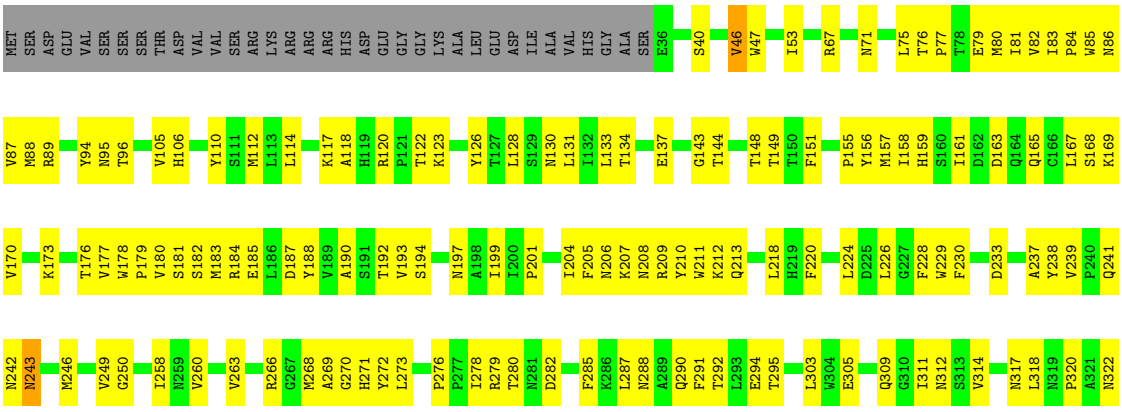
Chain n:

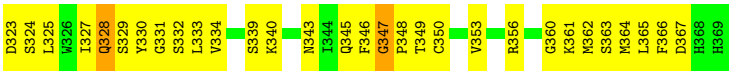




• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

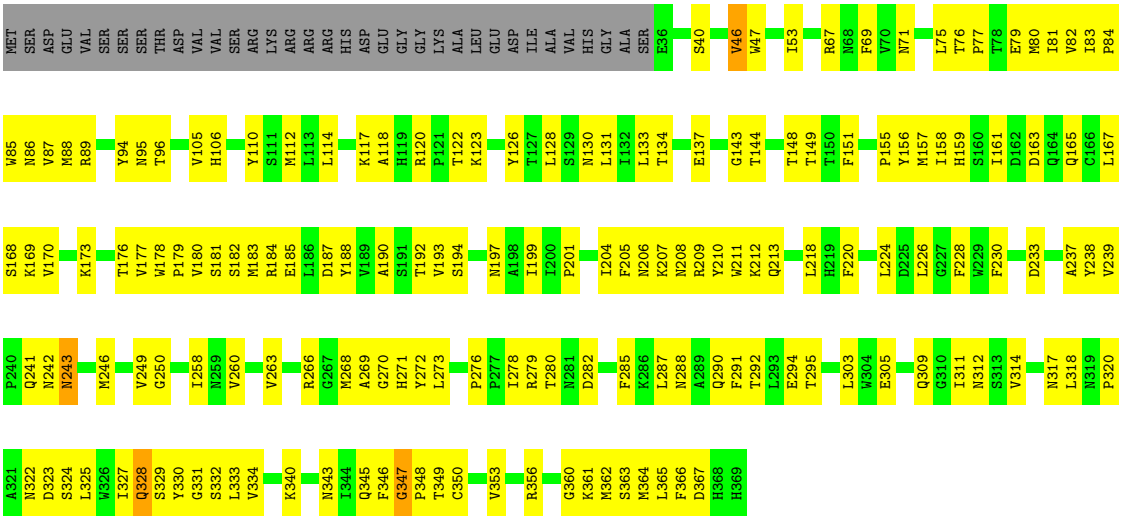
Chain o:





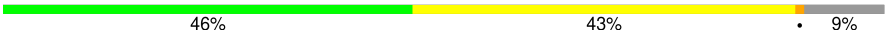
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

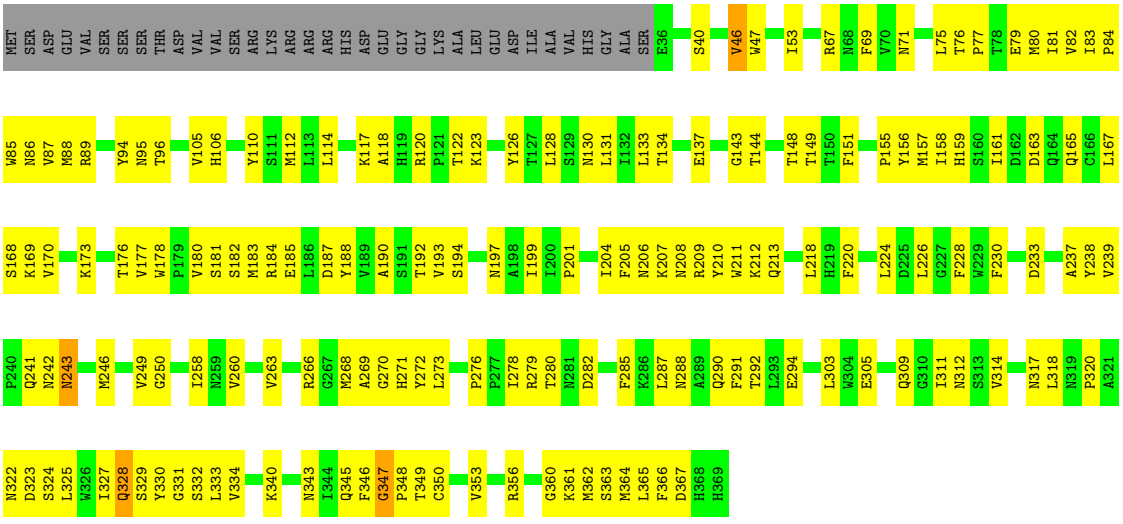
Chain p:



• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

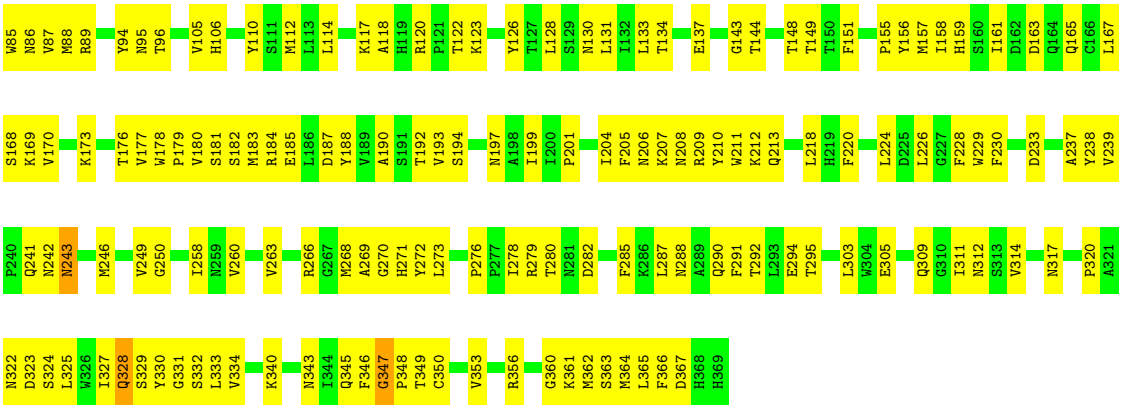
Chain q:





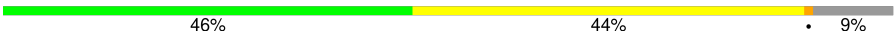
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

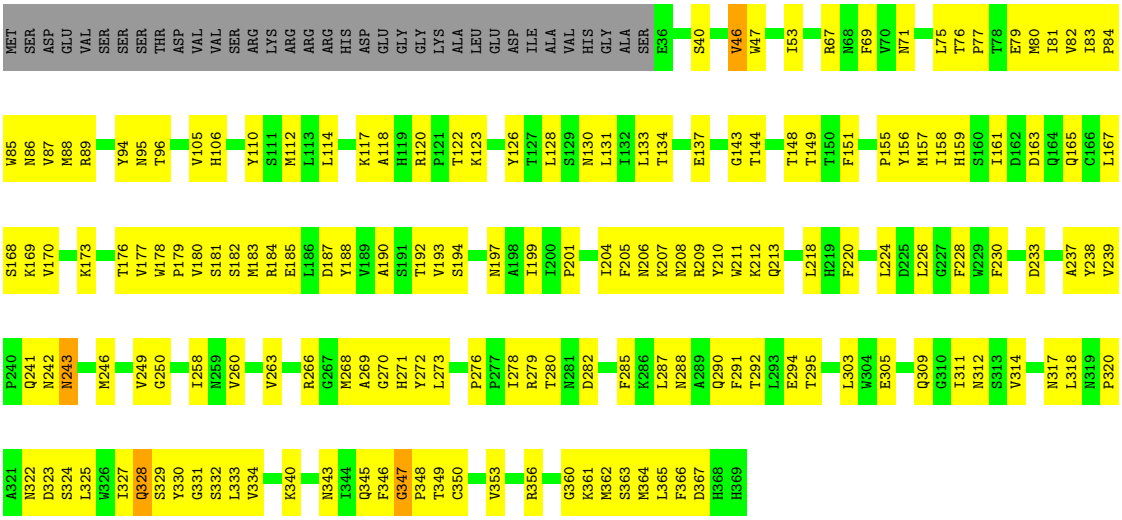
Chain r:



• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

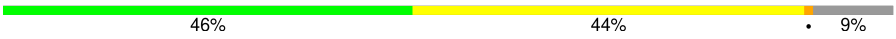
Chain s:

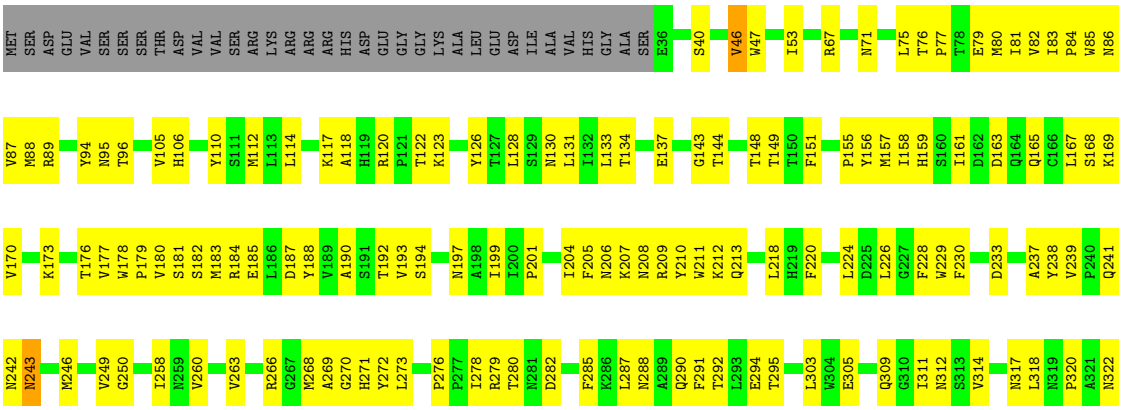




• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

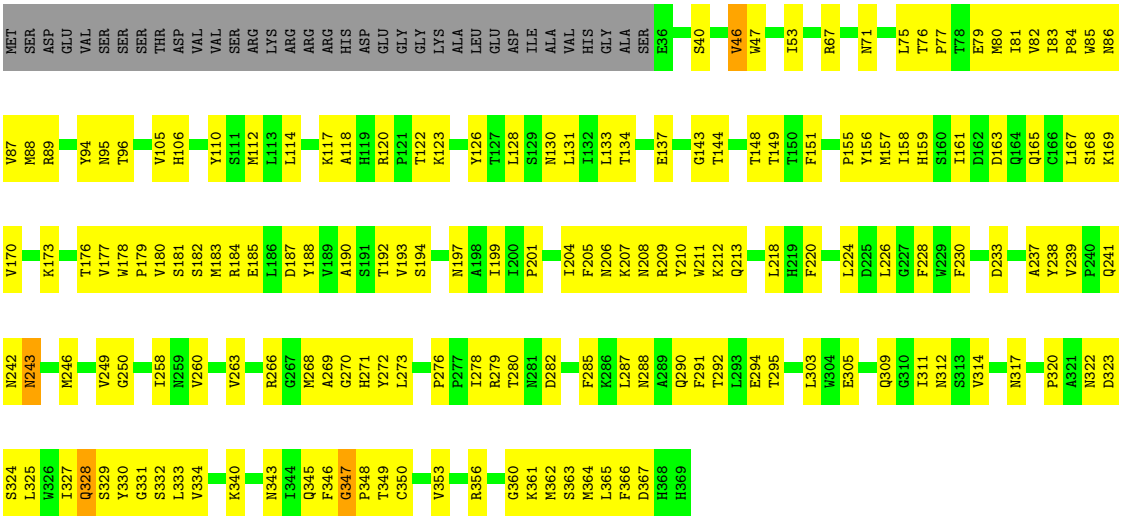
Chain t:





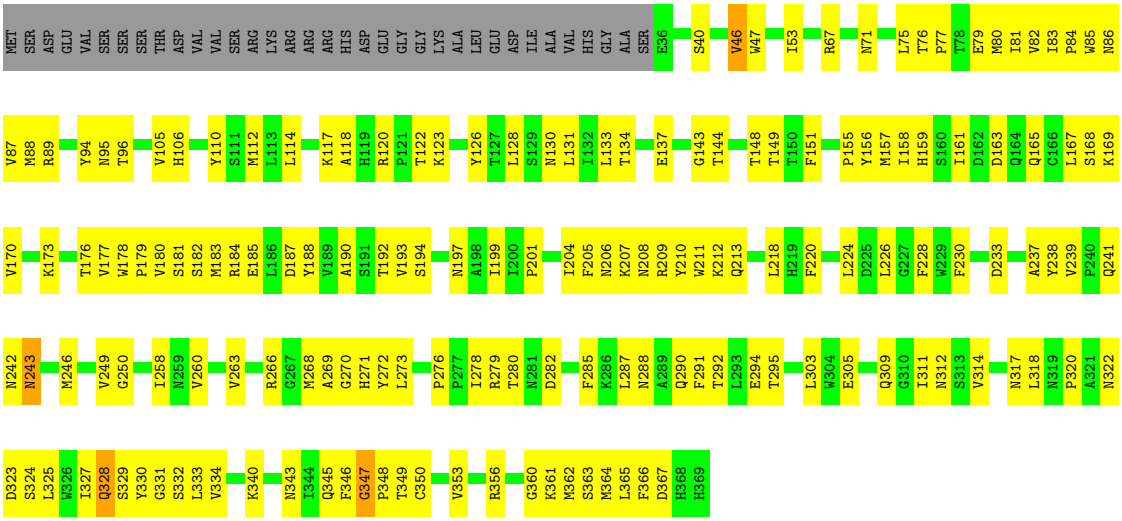
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain u:



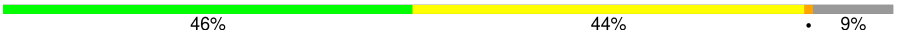
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

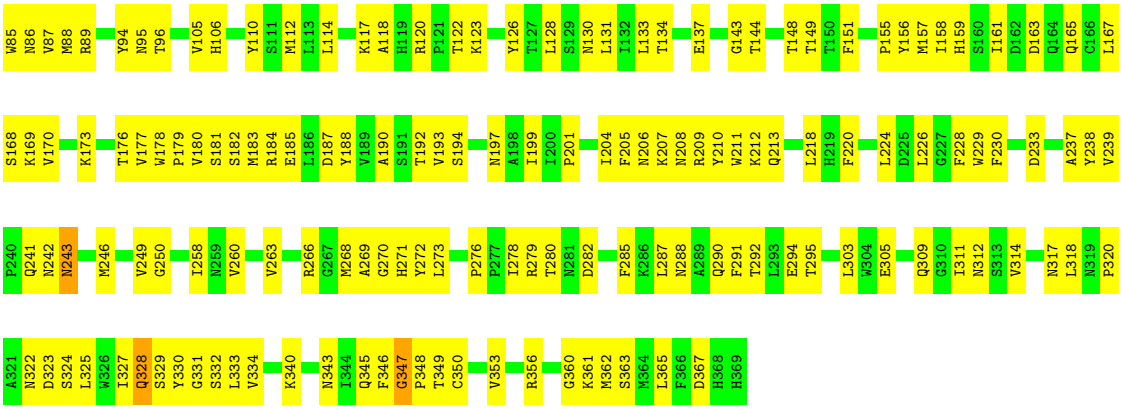
Chain v:



• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

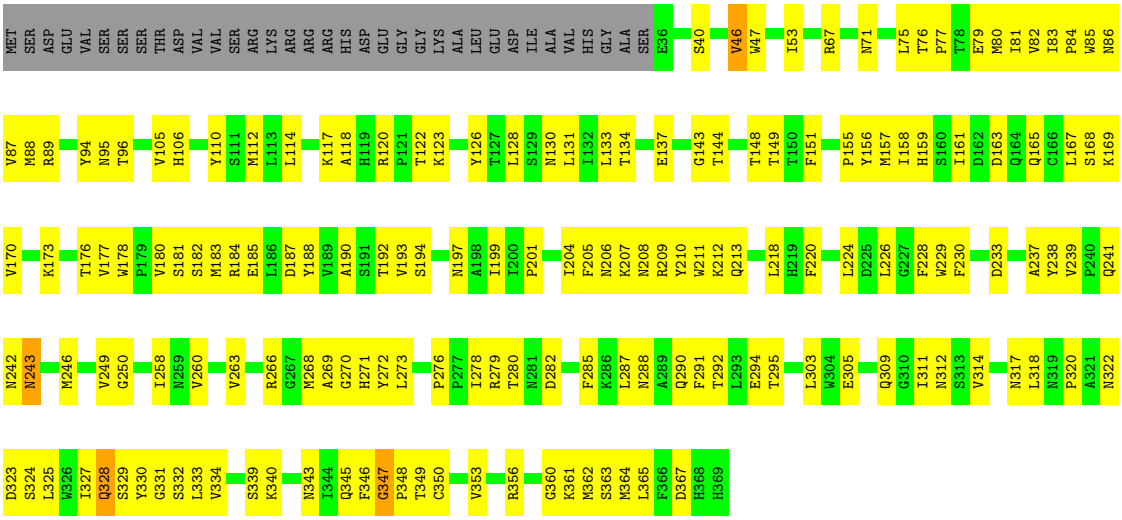
Chain w:





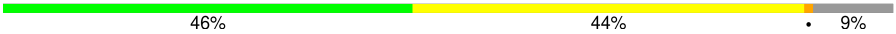
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

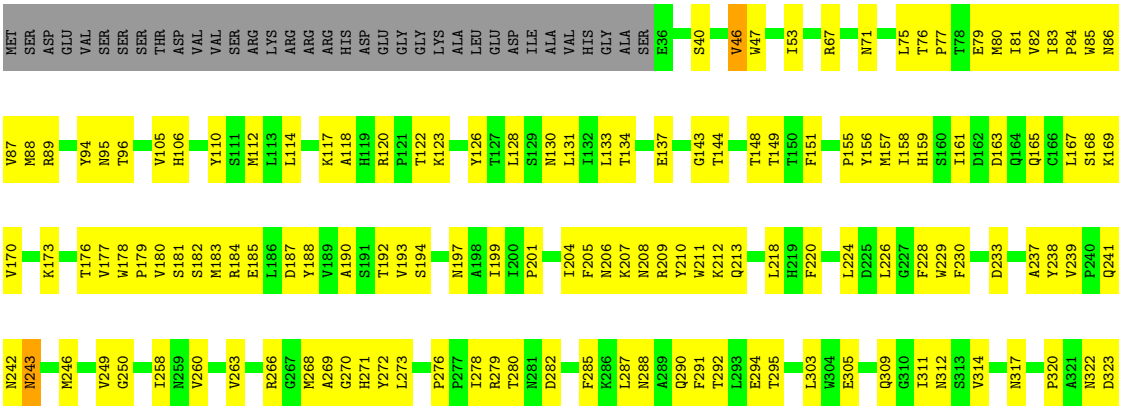
Chain x:

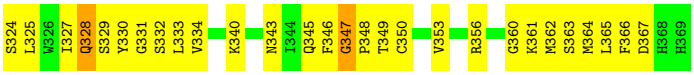


• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain y:

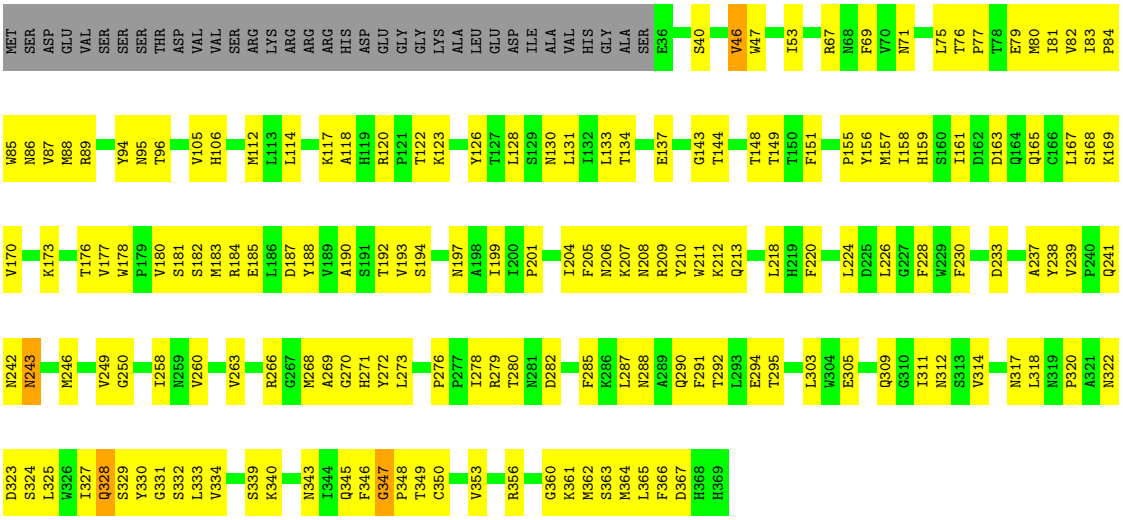






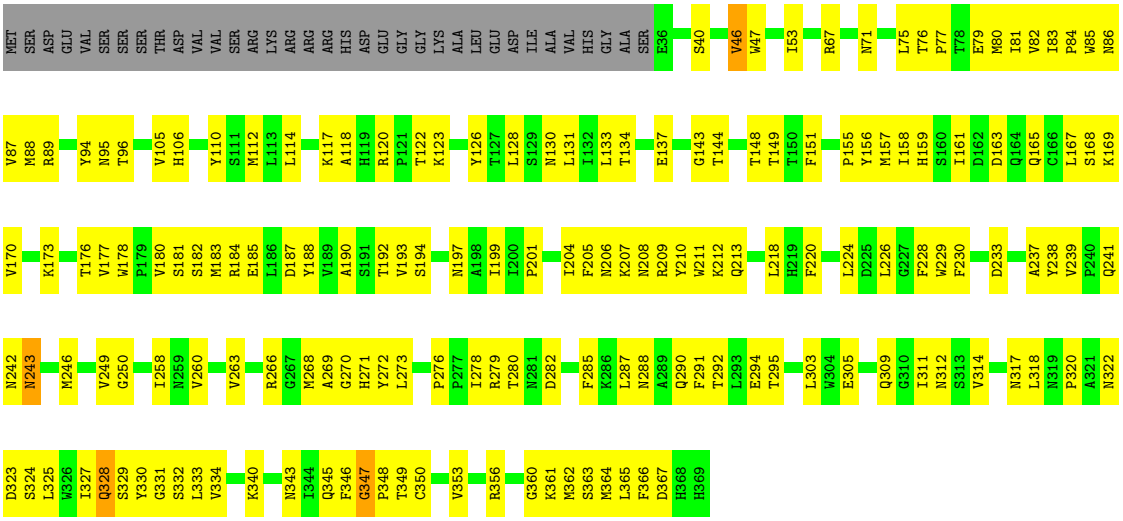
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain z:



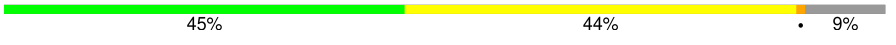
• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

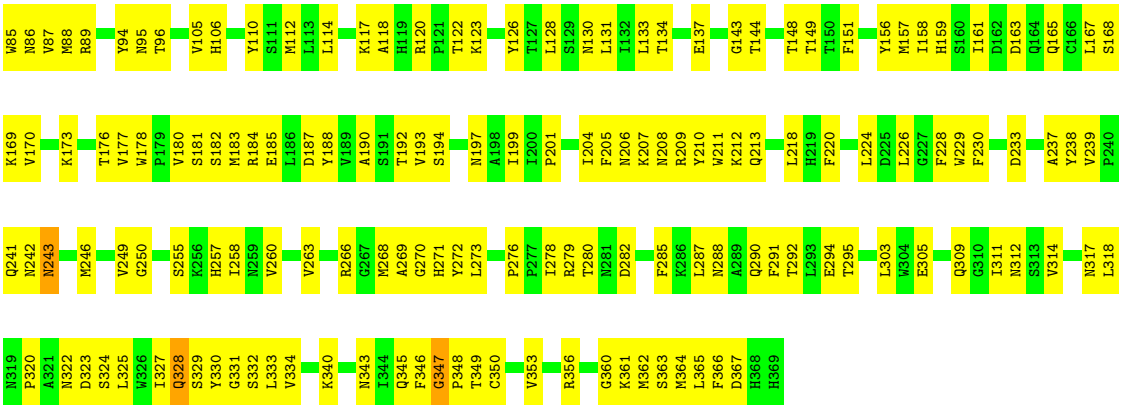
Chain 1:



• Molecule 1: Penaeus monodon metallodensovirus major capsid protein

Chain 2:




W85 N86 V87 M88 R89
Y94 N95 T96
V105 H106
Y110 S111 M112 L113 L114
K117 A118 H119 R120 P121 T122 K123
Y126 T127 L128 S129 N130 L131 I132 L133 T134
E137
G143 T144
T148 T149 T150 F151
Y156 M157 I158 H159 S160 I161 D162 D163 Q164 Q165 C166 L167 S168
K169 V170
K173
T176 V177 W178 P179 V180 S181 S182 M183 R184 E185 L186 D187 Y188 V189 A190 S191 T192 V193 S194
N197 A198 I199 I200 P201
I204 F205 N206 K207 N208 R209 Y210 W211 K212 Q213
L218 H219 F220
L224 D225 L226 G227 F228 W229 F230
D233
A237 Y238 V239 P240
Q241 N242 N243
M246
V249 G250
S255 K256 H257 I258 N259 V260
V263
R266 G267 M268 A269 G270 H271 Y272 L273
P276 P277 I278 R279 T280 N281 D282
F285 K286 L287 N288 A289 Q290 F291 T292 L293 E294 T295
L303 W304 E305
Q309 G310 I311 N312 S313 V314
N317 L318
N319 P320 A321 N322 D323 S324 L325 W326 I327 Q328 S329 Y330 G331 S332 L333 V334
K340
N343 I344 Q345 F346 G347 P348 T349 C350
V353
R356
G360 K361 M362 S363 M364 L365 F366 D367 H368 H369

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	12873	Depositor
Resolution determination method	FSC 3 SIGMA CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	75	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	21.777	Depositor
Minimum map value	-12.179	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1.5	Depositor
Map size (Å)	415.436, 415.436, 415.436	wwPDB
Map dimensions	401, 401, 401	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.036, 1.036, 1.036	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

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	1	0.49	0/2696	0.67	4/3669 (0.1%)
1	2	0.49	0/2696	0.67	4/3669 (0.1%)
1	3	0.49	0/2696	0.67	4/3669 (0.1%)
1	4	0.49	0/2696	0.67	4/3669 (0.1%)
1	5	0.49	0/2696	0.67	4/3669 (0.1%)
1	6	0.49	0/2696	0.67	4/3669 (0.1%)
1	7	0.49	0/2696	0.67	4/3669 (0.1%)
1	8	0.48	0/2696	0.67	4/3669 (0.1%)
1	A	0.48	0/2696	0.67	4/3669 (0.1%)
1	B	0.49	0/2696	0.67	4/3669 (0.1%)
1	C	0.49	0/2696	0.67	4/3669 (0.1%)
1	D	0.49	0/2696	0.67	4/3669 (0.1%)
1	E	0.49	0/2696	0.67	4/3669 (0.1%)
1	F	0.49	0/2696	0.67	4/3669 (0.1%)
1	G	0.49	0/2696	0.67	4/3669 (0.1%)
1	H	0.49	0/2696	0.67	4/3669 (0.1%)
1	I	0.49	0/2696	0.67	4/3669 (0.1%)
1	J	0.49	0/2696	0.67	4/3669 (0.1%)
1	K	0.49	0/2696	0.67	4/3669 (0.1%)
1	L	0.49	0/2696	0.67	4/3669 (0.1%)
1	M	0.49	0/2696	0.67	4/3669 (0.1%)
1	N	0.49	0/2696	0.67	4/3669 (0.1%)
1	O	0.49	0/2696	0.67	4/3669 (0.1%)
1	P	0.49	0/2696	0.67	4/3669 (0.1%)
1	Q	0.49	0/2696	0.67	4/3669 (0.1%)
1	R	0.49	0/2696	0.67	4/3669 (0.1%)
1	S	0.49	0/2696	0.67	4/3669 (0.1%)
1	T	0.49	0/2696	0.67	4/3669 (0.1%)
1	U	0.49	0/2696	0.67	4/3669 (0.1%)
1	V	0.49	0/2696	0.67	4/3669 (0.1%)
1	W	0.49	0/2696	0.67	4/3669 (0.1%)
1	X	0.48	0/2696	0.67	4/3669 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Y	0.49	0/2696	0.67	4/3669 (0.1%)
1	Z	0.49	0/2696	0.67	4/3669 (0.1%)
1	a	0.49	0/2696	0.67	4/3669 (0.1%)
1	b	0.49	0/2696	0.67	4/3669 (0.1%)
1	c	0.49	0/2696	0.67	4/3669 (0.1%)
1	d	0.49	0/2696	0.67	4/3669 (0.1%)
1	e	0.49	0/2696	0.67	4/3669 (0.1%)
1	f	0.49	0/2696	0.67	4/3669 (0.1%)
1	g	0.49	0/2696	0.67	4/3669 (0.1%)
1	h	0.49	0/2696	0.67	4/3669 (0.1%)
1	i	0.49	0/2696	0.67	4/3669 (0.1%)
1	j	0.49	0/2696	0.67	4/3669 (0.1%)
1	k	0.49	0/2696	0.67	4/3669 (0.1%)
1	l	0.49	0/2696	0.67	4/3669 (0.1%)
1	m	0.49	0/2696	0.67	4/3669 (0.1%)
1	n	0.49	0/2696	0.67	4/3669 (0.1%)
1	o	0.49	0/2696	0.67	4/3669 (0.1%)
1	p	0.49	0/2696	0.67	4/3669 (0.1%)
1	q	0.49	0/2696	0.67	4/3669 (0.1%)
1	r	0.49	0/2696	0.67	4/3669 (0.1%)
1	s	0.49	0/2696	0.67	4/3669 (0.1%)
1	t	0.49	0/2696	0.67	4/3669 (0.1%)
1	u	0.49	0/2696	0.67	4/3669 (0.1%)
1	v	0.49	0/2696	0.67	4/3669 (0.1%)
1	w	0.49	0/2696	0.67	4/3669 (0.1%)
1	x	0.49	0/2696	0.67	4/3669 (0.1%)
1	y	0.49	0/2696	0.67	4/3669 (0.1%)
1	z	0.49	0/2696	0.67	4/3669 (0.1%)
All	All	0.49	0/161760	0.67	240/220140 (0.1%)

There are no bond length outliers.

All (240) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	347	GLY	CA-C-N	7.02	126.95	120.21
1	Z	347	GLY	C-N-CA	7.02	126.95	120.21
1	2	347	GLY	CA-C-N	7.02	126.95	120.21
1	2	347	GLY	C-N-CA	7.02	126.95	120.21
1	i	347	GLY	CA-C-N	7.01	126.94	120.21
1	i	347	GLY	C-N-CA	7.01	126.94	120.21
1	E	347	GLY	CA-C-N	6.99	126.92	120.21
1	E	347	GLY	C-N-CA	6.99	126.92	120.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	347	GLY	CA-C-N	6.99	126.92	120.21
1	G	347	GLY	C-N-CA	6.99	126.92	120.21
1	m	347	GLY	CA-C-N	6.99	126.92	120.21
1	m	347	GLY	C-N-CA	6.99	126.92	120.21
1	t	347	GLY	CA-C-N	6.99	126.92	120.21
1	t	347	GLY	C-N-CA	6.99	126.92	120.21
1	V	347	GLY	CA-C-N	6.98	126.91	120.21
1	V	347	GLY	C-N-CA	6.98	126.91	120.21
1	J	347	GLY	CA-C-N	6.96	126.90	120.21
1	J	347	GLY	C-N-CA	6.96	126.90	120.21
1	v	347	GLY	CA-C-N	6.96	126.90	120.21
1	v	347	GLY	C-N-CA	6.96	126.90	120.21
1	o	347	GLY	CA-C-N	6.96	126.89	120.21
1	o	347	GLY	C-N-CA	6.96	126.89	120.21
1	8	347	GLY	CA-C-N	6.96	126.89	120.21
1	8	347	GLY	C-N-CA	6.96	126.89	120.21
1	w	347	GLY	CA-C-N	6.96	126.89	120.21
1	w	347	GLY	C-N-CA	6.96	126.89	120.21
1	K	347	GLY	CA-C-N	6.95	126.88	120.21
1	K	347	GLY	C-N-CA	6.95	126.88	120.21
1	T	347	GLY	CA-C-N	6.95	126.88	120.21
1	T	347	GLY	C-N-CA	6.95	126.88	120.21
1	f	347	GLY	CA-C-N	6.95	126.88	120.21
1	f	347	GLY	C-N-CA	6.95	126.88	120.21
1	x	347	GLY	CA-C-N	6.95	126.88	120.21
1	x	347	GLY	C-N-CA	6.95	126.88	120.21
1	n	347	GLY	CA-C-N	6.95	126.88	120.21
1	n	347	GLY	C-N-CA	6.95	126.88	120.21
1	q	347	GLY	CA-C-N	6.95	126.88	120.21
1	q	347	GLY	C-N-CA	6.95	126.88	120.21
1	h	347	GLY	CA-C-N	6.95	126.88	120.21
1	h	347	GLY	C-N-CA	6.95	126.88	120.21
1	M	347	GLY	CA-C-N	6.95	126.88	120.21
1	M	347	GLY	C-N-CA	6.95	126.88	120.21
1	O	347	GLY	CA-C-N	6.95	126.88	120.21
1	O	347	GLY	C-N-CA	6.95	126.88	120.21
1	R	347	GLY	CA-C-N	6.95	126.88	120.21
1	R	347	GLY	C-N-CA	6.95	126.88	120.21
1	b	347	GLY	CA-C-N	6.95	126.88	120.21
1	b	347	GLY	C-N-CA	6.95	126.88	120.21
1	A	347	GLY	CA-C-N	6.95	126.88	120.21
1	A	347	GLY	C-N-CA	6.95	126.88	120.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	347	GLY	CA-C-N	6.95	126.88	120.21
1	F	347	GLY	C-N-CA	6.95	126.88	120.21
1	H	347	GLY	CA-C-N	6.95	126.88	120.21
1	H	347	GLY	C-N-CA	6.95	126.88	120.21
1	P	347	GLY	CA-C-N	6.95	126.88	120.21
1	P	347	GLY	C-N-CA	6.95	126.88	120.21
1	3	347	GLY	CA-C-N	6.95	126.88	120.21
1	3	347	GLY	C-N-CA	6.95	126.88	120.21
1	d	347	GLY	CA-C-N	6.95	126.88	120.21
1	d	347	GLY	C-N-CA	6.95	126.88	120.21
1	p	347	GLY	CA-C-N	6.95	126.88	120.21
1	p	347	GLY	C-N-CA	6.95	126.88	120.21
1	y	347	GLY	CA-C-N	6.95	126.88	120.21
1	y	347	GLY	C-N-CA	6.95	126.88	120.21
1	7	347	GLY	CA-C-N	6.94	126.87	120.21
1	7	347	GLY	C-N-CA	6.94	126.87	120.21
1	D	347	GLY	CA-C-N	6.93	126.87	120.21
1	D	347	GLY	C-N-CA	6.93	126.87	120.21
1	e	347	GLY	CA-C-N	6.93	126.87	120.21
1	e	347	GLY	C-N-CA	6.93	126.87	120.21
1	z	347	GLY	CA-C-N	6.93	126.87	120.21
1	z	347	GLY	C-N-CA	6.93	126.87	120.21
1	W	347	GLY	CA-C-N	6.93	126.86	120.21
1	W	347	GLY	C-N-CA	6.93	126.86	120.21
1	L	347	GLY	CA-C-N	6.92	126.86	120.21
1	L	347	GLY	C-N-CA	6.92	126.86	120.21
1	S	347	GLY	CA-C-N	6.92	126.86	120.21
1	S	347	GLY	C-N-CA	6.92	126.86	120.21
1	U	347	GLY	CA-C-N	6.92	126.86	120.21
1	U	347	GLY	C-N-CA	6.92	126.86	120.21
1	4	347	GLY	CA-C-N	6.92	126.86	120.21
1	4	347	GLY	C-N-CA	6.92	126.86	120.21
1	l	347	GLY	CA-C-N	6.92	126.86	120.21
1	l	347	GLY	C-N-CA	6.92	126.86	120.21
1	s	347	GLY	CA-C-N	6.92	126.86	120.21
1	s	347	GLY	C-N-CA	6.92	126.86	120.21
1	C	347	GLY	CA-C-N	6.92	126.85	120.21
1	C	347	GLY	C-N-CA	6.92	126.85	120.21
1	I	347	GLY	CA-C-N	6.92	126.85	120.21
1	I	347	GLY	C-N-CA	6.92	126.85	120.21
1	Q	347	GLY	CA-C-N	6.92	126.85	120.21
1	Q	347	GLY	C-N-CA	6.92	126.85	120.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	347	GLY	CA-C-N	6.92	126.85	120.21
1	a	347	GLY	C-N-CA	6.92	126.85	120.21
1	g	347	GLY	CA-C-N	6.92	126.85	120.21
1	g	347	GLY	C-N-CA	6.92	126.85	120.21
1	j	347	GLY	CA-C-N	6.92	126.85	120.21
1	j	347	GLY	C-N-CA	6.92	126.85	120.21
1	r	347	GLY	CA-C-N	6.92	126.85	120.21
1	r	347	GLY	C-N-CA	6.92	126.85	120.21
1	N	347	GLY	CA-C-N	6.92	126.85	120.21
1	N	347	GLY	C-N-CA	6.92	126.85	120.21
1	Y	347	GLY	CA-C-N	6.92	126.85	120.21
1	Y	347	GLY	C-N-CA	6.92	126.85	120.21
1	c	347	GLY	CA-C-N	6.92	126.85	120.21
1	c	347	GLY	C-N-CA	6.92	126.85	120.21
1	1	347	GLY	CA-C-N	6.92	126.85	120.21
1	1	347	GLY	C-N-CA	6.92	126.85	120.21
1	6	347	GLY	CA-C-N	6.92	126.85	120.21
1	6	347	GLY	C-N-CA	6.92	126.85	120.21
1	u	347	GLY	CA-C-N	6.91	126.85	120.21
1	u	347	GLY	C-N-CA	6.91	126.85	120.21
1	X	347	GLY	CA-C-N	6.91	126.84	120.21
1	X	347	GLY	C-N-CA	6.91	126.84	120.21
1	B	347	GLY	CA-C-N	6.91	126.84	120.21
1	B	347	GLY	C-N-CA	6.91	126.84	120.21
1	k	347	GLY	CA-C-N	6.91	126.84	120.21
1	k	347	GLY	C-N-CA	6.91	126.84	120.21
1	5	347	GLY	CA-C-N	6.89	126.83	120.21
1	5	347	GLY	C-N-CA	6.89	126.83	120.21
1	H	349	THR	N-CA-C	-5.99	97.92	108.23
1	P	349	THR	N-CA-C	-5.99	97.92	108.23
1	d	349	THR	N-CA-C	-5.99	97.92	108.23
1	V	349	THR	N-CA-C	-5.97	97.95	108.23
1	Z	349	THR	N-CA-C	-5.97	97.95	108.23
1	e	349	THR	N-CA-C	-5.97	97.95	108.23
1	z	349	THR	N-CA-C	-5.97	97.95	108.23
1	7	349	THR	N-CA-C	-5.97	97.96	108.23
1	C	349	THR	N-CA-C	-5.97	97.96	108.23
1	M	349	THR	N-CA-C	-5.97	97.96	108.23
1	X	349	THR	N-CA-C	-5.97	97.96	108.23
1	b	349	THR	N-CA-C	-5.97	97.96	108.23
1	f	349	THR	N-CA-C	-5.97	97.96	108.23
1	i	349	THR	N-CA-C	-5.97	97.97	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	349	THR	N-CA-C	-5.96	97.97	108.23
1	y	349	THR	N-CA-C	-5.96	97.97	108.23
1	2	349	THR	N-CA-C	-5.96	97.97	108.23
1	B	349	THR	N-CA-C	-5.96	97.97	108.23
1	R	349	THR	N-CA-C	-5.96	97.97	108.23
1	U	349	THR	N-CA-C	-5.96	97.97	108.23
1	k	349	THR	N-CA-C	-5.96	97.97	108.23
1	m	349	THR	N-CA-C	-5.96	97.97	108.23
1	t	349	THR	N-CA-C	-5.96	97.97	108.23
1	D	349	THR	N-CA-C	-5.96	97.98	108.23
1	W	349	THR	N-CA-C	-5.96	97.98	108.23
1	a	349	THR	N-CA-C	-5.96	97.98	108.23
1	A	349	THR	N-CA-C	-5.96	97.99	108.23
1	F	349	THR	N-CA-C	-5.96	97.99	108.23
1	Y	349	THR	N-CA-C	-5.96	97.98	108.23
1	4	349	THR	N-CA-C	-5.96	97.99	108.23
1	3	349	THR	N-CA-C	-5.96	97.99	108.23
1	s	349	THR	N-CA-C	-5.96	97.99	108.23
1	w	349	THR	N-CA-C	-5.96	97.98	108.23
1	c	349	THR	N-CA-C	-5.95	97.99	108.23
1	j	349	THR	N-CA-C	-5.95	97.99	108.23
1	1	349	THR	N-CA-C	-5.95	97.99	108.23
1	o	349	THR	N-CA-C	-5.95	97.99	108.23
1	r	349	THR	N-CA-C	-5.95	97.99	108.23
1	E	349	THR	N-CA-C	-5.95	98.00	108.23
1	G	349	THR	N-CA-C	-5.95	98.00	108.23
1	O	349	THR	N-CA-C	-5.95	98.00	108.23
1	n	349	THR	N-CA-C	-5.95	98.00	108.23
1	p	349	THR	N-CA-C	-5.95	98.00	108.23
1	q	349	THR	N-CA-C	-5.95	98.00	108.23
1	I	349	THR	N-CA-C	-5.95	98.00	108.23
1	J	349	THR	N-CA-C	-5.95	98.00	108.23
1	K	349	THR	N-CA-C	-5.95	98.00	108.23
1	Q	349	THR	N-CA-C	-5.95	98.00	108.23
1	S	349	THR	N-CA-C	-5.95	98.00	108.23
1	T	349	THR	N-CA-C	-5.95	98.00	108.23
1	6	349	THR	N-CA-C	-5.95	98.00	108.23
1	l	349	THR	N-CA-C	-5.95	98.00	108.23
1	v	349	THR	N-CA-C	-5.95	98.00	108.23
1	x	349	THR	N-CA-C	-5.95	98.00	108.23
1	L	349	THR	N-CA-C	-5.94	98.01	108.23
1	g	349	THR	N-CA-C	-5.94	98.01	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	349	THR	N-CA-C	-5.94	98.01	108.23
1	8	349	THR	N-CA-C	-5.93	98.03	108.23
1	u	349	THR	N-CA-C	-5.93	98.03	108.23
1	N	349	THR	N-CA-C	-5.92	98.04	108.23
1	Z	328	GLN	N-CA-C	5.69	121.50	113.02
1	L	328	GLN	N-CA-C	5.68	121.49	113.02
1	2	328	GLN	N-CA-C	5.68	121.48	113.02
1	F	328	GLN	N-CA-C	5.67	121.47	113.02
1	T	328	GLN	N-CA-C	5.67	121.47	113.02
1	X	328	GLN	N-CA-C	5.67	121.47	113.02
1	K	328	GLN	N-CA-C	5.67	121.47	113.02
1	i	328	GLN	N-CA-C	5.67	121.47	113.02
1	q	328	GLN	N-CA-C	5.67	121.47	113.02
1	h	328	GLN	N-CA-C	5.67	121.47	113.02
1	n	328	GLN	N-CA-C	5.67	121.47	113.02
1	p	328	GLN	N-CA-C	5.66	121.46	113.02
1	7	328	GLN	N-CA-C	5.66	121.46	113.02
1	J	328	GLN	N-CA-C	5.66	121.45	113.02
1	S	328	GLN	N-CA-C	5.66	121.45	113.02
1	l	328	GLN	N-CA-C	5.66	121.45	113.02
1	v	328	GLN	N-CA-C	5.66	121.45	113.02
1	8	328	GLN	N-CA-C	5.66	121.45	113.02
1	5	328	GLN	N-CA-C	5.66	121.45	113.02
1	H	328	GLN	N-CA-C	5.65	121.44	113.02
1	P	328	GLN	N-CA-C	5.65	121.44	113.02
1	d	328	GLN	N-CA-C	5.65	121.44	113.02
1	y	328	GLN	N-CA-C	5.65	121.44	113.02
1	r	328	GLN	N-CA-C	5.65	121.44	113.02
1	A	328	GLN	N-CA-C	5.65	121.44	113.02
1	6	328	GLN	N-CA-C	5.65	121.44	113.02
1	4	328	GLN	N-CA-C	5.65	121.44	113.02
1	3	328	GLN	N-CA-C	5.65	121.44	113.02
1	s	328	GLN	N-CA-C	5.65	121.44	113.02
1	x	328	GLN	N-CA-C	5.65	121.44	113.02
1	C	328	GLN	N-CA-C	5.65	121.44	113.02
1	a	328	GLN	N-CA-C	5.65	121.44	113.02
1	b	328	GLN	N-CA-C	5.65	121.44	113.02
1	j	328	GLN	N-CA-C	5.65	121.44	113.02
1	B	328	GLN	N-CA-C	5.64	121.43	113.02
1	R	328	GLN	N-CA-C	5.64	121.43	113.02
1	e	328	GLN	N-CA-C	5.64	121.43	113.02
1	k	328	GLN	N-CA-C	5.64	121.43	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	328	GLN	N-CA-C	5.64	121.43	113.02
1	I	328	GLN	N-CA-C	5.64	121.42	113.02
1	Q	328	GLN	N-CA-C	5.64	121.42	113.02
1	W	328	GLN	N-CA-C	5.64	121.42	113.02
1	m	328	GLN	N-CA-C	5.64	121.42	113.02
1	t	328	GLN	N-CA-C	5.64	121.42	113.02
1	u	328	GLN	N-CA-C	5.64	121.42	113.02
1	E	328	GLN	N-CA-C	5.64	121.42	113.02
1	G	328	GLN	N-CA-C	5.64	121.42	113.02
1	O	328	GLN	N-CA-C	5.64	121.42	113.02
1	f	328	GLN	N-CA-C	5.64	121.42	113.02
1	N	328	GLN	N-CA-C	5.63	121.41	113.02
1	Y	328	GLN	N-CA-C	5.63	121.41	113.02
1	c	328	GLN	N-CA-C	5.63	121.41	113.02
1	1	328	GLN	N-CA-C	5.63	121.41	113.02
1	o	328	GLN	N-CA-C	5.63	121.41	113.02
1	M	328	GLN	N-CA-C	5.63	121.40	113.02
1	U	328	GLN	N-CA-C	5.63	121.40	113.02
1	D	328	GLN	N-CA-C	5.62	121.40	113.02
1	z	328	GLN	N-CA-C	5.62	121.40	113.02
1	V	328	GLN	N-CA-C	5.62	121.39	113.02
1	w	328	GLN	N-CA-C	5.62	121.39	113.02

There are no chirality outliers.

There are no planarity outliers.

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	1	2628	0	2527	189	0
1	2	2628	0	2527	188	0
1	3	2628	0	2527	188	0
1	4	2628	0	2527	189	0
1	5	2628	0	2527	186	0
1	6	2628	0	2527	188	0
1	7	2628	0	2527	194	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	8	2628	0	2527	189	0
1	A	2628	0	2527	188	0
1	B	2628	0	2527	187	0
1	C	2628	0	2527	191	0
1	D	2628	0	2527	187	0
1	E	2628	0	2527	190	0
1	F	2628	0	2527	186	0
1	G	2628	0	2527	187	0
1	H	2628	0	2527	190	0
1	I	2628	0	2527	188	0
1	J	2628	0	2527	185	0
1	K	2628	0	2527	187	0
1	L	2628	0	2527	191	0
1	M	2628	0	2527	189	0
1	N	2628	0	2527	187	0
1	O	2628	0	2527	187	0
1	P	2628	0	2527	191	0
1	Q	2628	0	2527	188	0
1	R	2628	0	2527	185	0
1	S	2628	0	2527	189	0
1	T	2628	0	2527	187	0
1	U	2628	0	2527	188	0
1	V	2628	0	2527	190	0
1	W	2628	0	2527	191	0
1	X	2628	0	2527	188	0
1	Y	2628	0	2527	188	0
1	Z	2628	0	2527	187	0
1	a	2628	0	2527	187	0
1	b	2628	0	2527	187	0
1	c	2628	0	2527	187	0
1	d	2628	0	2527	190	0
1	e	2628	0	2527	191	0
1	f	2628	0	2527	187	0
1	g	2628	0	2527	188	0
1	h	2628	0	2527	188	0
1	i	2628	0	2527	187	0
1	j	2628	0	2527	186	0
1	k	2628	0	2527	188	0
1	l	2628	0	2527	186	0
1	m	2628	0	2527	189	0
1	n	2628	0	2527	189	0
1	o	2628	0	2527	189	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	p	2628	0	2527	190	0
1	q	2628	0	2527	187	0
1	r	2628	0	2527	188	0
1	s	2628	0	2527	190	0
1	t	2628	0	2527	189	0
1	u	2628	0	2527	185	0
1	v	2628	0	2527	189	0
1	w	2628	0	2527	183	0
1	x	2628	0	2527	188	0
1	y	2628	0	2527	189	0
1	z	2628	0	2527	185	0
2	1	1	0	0	0	0
2	2	1	0	0	0	0
2	3	1	0	0	0	0
2	4	1	0	0	0	0
2	5	1	0	0	0	0
2	6	1	0	0	0	0
2	7	1	0	0	0	0
2	8	1	0	0	0	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
2	E	1	0	0	0	0
2	F	1	0	0	0	0
2	G	1	0	0	0	0
2	H	1	0	0	0	0
2	I	1	0	0	0	0
2	J	1	0	0	0	0
2	K	1	0	0	0	0
2	L	1	0	0	0	0
2	M	1	0	0	0	0
2	N	1	0	0	0	0
2	O	1	0	0	0	0
2	P	1	0	0	0	0
2	Q	1	0	0	0	0
2	R	1	0	0	0	0
2	S	1	0	0	0	0
2	T	1	0	0	0	0
2	U	1	0	0	0	0
2	V	1	0	0	0	0
2	W	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	X	1	0	0	0	0
2	Y	1	0	0	0	0
2	Z	1	0	0	0	0
2	a	1	0	0	0	0
2	b	1	0	0	0	0
2	c	1	0	0	0	0
2	d	1	0	0	0	0
2	e	1	0	0	0	0
2	f	1	0	0	0	0
2	g	1	0	0	0	0
2	h	1	0	0	0	0
2	i	1	0	0	0	0
2	j	1	0	0	0	0
2	k	1	0	0	0	0
2	l	1	0	0	0	0
2	m	1	0	0	0	0
2	n	1	0	0	0	0
2	o	1	0	0	0	0
2	p	1	0	0	0	0
2	q	1	0	0	0	0
2	r	1	0	0	0	0
2	s	1	0	0	0	0
2	t	1	0	0	0	0
2	u	1	0	0	0	0
2	v	1	0	0	0	0
2	w	1	0	0	0	0
2	x	1	0	0	0	0
2	y	1	0	0	0	0
2	z	1	0	0	0	0
All	All	157740	0	151620	9696	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 31.

All (9696) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:209:ARG:HB3	1:L:46:VAL:HG11	1.20	1.20
1:f:260:VAL:HG11	1:f:328:GLN:HG3	1.20	1.20
1:Z:260:VAL:HG11	1:Z:328:GLN:HG3	1.20	1.20
1:6:260:VAL:HG11	1:6:328:GLN:HG3	1.20	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:209:ARG:HB3	1:m:46:VAL:HG11	1.21	1.19
1:7:260:VAL:HG11	1:7:328:GLN:HG3	1.20	1.19
1:Y:260:VAL:HG11	1:Y:328:GLN:HG3	1.20	1.19
1:c:260:VAL:HG11	1:c:328:GLN:HG3	1.20	1.18
1:k:46:VAL:HG11	1:l:209:ARG:HB3	1.21	1.17
1:K:209:ARG:HB3	1:2:46:VAL:HG11	1.21	1.17
1:t:209:ARG:HB3	1:v:46:VAL:HG11	1.20	1.17
1:X:209:ARG:HB3	1:4:46:VAL:HG11	1.20	1.17
1:Z:209:ARG:HB3	1:w:46:VAL:HG11	1.22	1.17
1:B:46:VAL:HG11	1:J:209:ARG:HB3	1.21	1.17
1:N:46:VAL:HG11	1:P:209:ARG:HB3	1.21	1.17
1:O:46:VAL:HG11	1:g:209:ARG:HB3	1.21	1.17
1:S:46:VAL:HG11	1:U:209:ARG:HB3	1.21	1.17
1:M:228:PHE:CE2	1:M:230:PHE:HE1	1.64	1.16
1:i:228:PHE:CE2	1:i:230:PHE:HE1	1.63	1.16
1:1:260:VAL:HG11	1:1:328:GLN:HG3	1.20	1.16
1:E:209:ARG:HB3	1:F:46:VAL:HG11	1.20	1.16
1:N:260:VAL:HG11	1:N:328:GLN:HG3	1.20	1.16
1:S:228:PHE:CE2	1:S:230:PHE:HE1	1.63	1.16
1:4:228:PHE:CE2	1:4:230:PHE:HE1	1.64	1.16
1:3:228:PHE:CE2	1:3:230:PHE:HE1	1.64	1.16
1:n:209:ARG:HB3	1:p:46:VAL:HG11	1.21	1.16
1:v:228:PHE:CE2	1:v:230:PHE:HE1	1.64	1.16
1:G:46:VAL:HG11	1:I:209:ARG:HB3	1.21	1.16
1:3:46:VAL:HG11	1:b:209:ARG:HB3	1.20	1.16
1:l:260:VAL:HG11	1:l:328:GLN:HG3	1.20	1.16
1:q:46:VAL:HG11	1:r:209:ARG:HB3	1.21	1.16
1:y:209:ARG:HB3	1:1:46:VAL:HG11	1.21	1.16
1:I:228:PHE:CE2	1:I:230:PHE:HE1	1.64	1.16
1:5:46:VAL:HG11	1:f:209:ARG:HB3	1.22	1.16
1:3:209:ARG:HB3	1:a:46:VAL:HG11	1.20	1.16
1:r:228:PHE:CE2	1:r:230:PHE:HE1	1.64	1.16
1:A:209:ARG:HB3	1:I:46:VAL:HG11	1.20	1.16
1:E:228:PHE:CE2	1:E:230:PHE:HE1	1.63	1.16
1:H:228:PHE:CE2	1:H:230:PHE:HE1	1.64	1.16
1:U:228:PHE:CE2	1:U:230:PHE:HE1	1.64	1.16
1:W:228:PHE:CE2	1:W:230:PHE:HE1	1.64	1.16
1:4:260:VAL:HG11	1:4:328:GLN:HG3	1.20	1.16
1:e:228:PHE:CE2	1:e:230:PHE:HE1	1.64	1.16
1:n:228:PHE:CE2	1:n:230:PHE:HE1	1.64	1.16
1:r:46:VAL:HG11	1:s:209:ARG:HB3	1.21	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:228:PHE:CE2	1:t:230:PHE:HE1	1.63	1.16
1:t:260:VAL:HG11	1:t:328:GLN:HG3	1.20	1.16
1:J:260:VAL:HG11	1:J:328:GLN:HG3	1.20	1.15
1:O:228:PHE:CE2	1:O:230:PHE:HE1	1.64	1.15
1:Z:228:PHE:CE2	1:Z:230:PHE:HE1	1.64	1.15
1:d:228:PHE:CE2	1:d:230:PHE:HE1	1.64	1.15
1:f:228:PHE:CE2	1:f:230:PHE:HE1	1.64	1.15
1:o:228:PHE:CE2	1:o:230:PHE:HE1	1.63	1.15
1:r:260:VAL:HG11	1:r:328:GLN:HG3	1.20	1.15
1:C:209:ARG:HB3	1:M:46:VAL:HG11	1.21	1.15
1:Q:228:PHE:CE2	1:Q:230:PHE:HE1	1.64	1.15
1:i:46:VAL:HG11	1:j:209:ARG:HB3	1.21	1.15
1:j:228:PHE:CE2	1:j:230:PHE:HE1	1.64	1.15
1:k:228:PHE:CE2	1:k:230:PHE:HE1	1.64	1.15
1:z:228:PHE:CE2	1:z:230:PHE:HE1	1.64	1.15
1:2:228:PHE:CE2	1:2:230:PHE:HE1	1.64	1.15
1:B:228:PHE:CE2	1:B:230:PHE:HE1	1.64	1.15
1:C:228:PHE:CE2	1:C:230:PHE:HE1	1.63	1.15
1:D:228:PHE:CE2	1:D:230:PHE:HE1	1.64	1.15
1:V:46:VAL:HG11	1:4:209:ARG:HB3	1.20	1.15
1:3:260:VAL:HG11	1:3:328:GLN:HG3	1.20	1.15
1:F:228:PHE:CE2	1:F:230:PHE:HE1	1.64	1.15
1:g:260:VAL:HG11	1:g:328:GLN:HG3	1.20	1.15
1:u:228:PHE:CE2	1:u:230:PHE:HE1	1.63	1.15
1:I:260:VAL:HG11	1:I:328:GLN:HG3	1.20	1.15
1:R:228:PHE:CE2	1:R:230:PHE:HE1	1.64	1.15
1:U:260:VAL:HG11	1:U:328:GLN:HG3	1.20	1.15
1:8:228:PHE:CE2	1:8:230:PHE:HE1	1.64	1.15
1:7:228:PHE:CE2	1:7:230:PHE:HE1	1.64	1.15
1:5:228:PHE:CE2	1:5:230:PHE:HE1	1.64	1.15
1:h:228:PHE:CE2	1:h:230:PHE:HE1	1.64	1.15
1:p:228:PHE:CE2	1:p:230:PHE:HE1	1.64	1.15
1:q:228:PHE:CE2	1:q:230:PHE:HE1	1.64	1.15
1:w:228:PHE:CE2	1:w:230:PHE:HE1	1.63	1.15
1:A:228:PHE:CE2	1:A:230:PHE:HE1	1.64	1.14
1:G:228:PHE:CE2	1:G:230:PHE:HE1	1.63	1.14
1:6:228:PHE:CE2	1:6:230:PHE:HE1	1.63	1.14
1:C:46:VAL:HG11	1:7:209:ARG:HB3	1.19	1.14
1:K:228:PHE:CE2	1:K:230:PHE:HE1	1.64	1.14
1:T:228:PHE:CE2	1:T:230:PHE:HE1	1.64	1.14
1:m:228:PHE:CE2	1:m:230:PHE:HE1	1.64	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:228:PHE:CE2	1:s:230:PHE:HE1	1.64	1.14
1:y:228:PHE:CE2	1:y:230:PHE:HE1	1.64	1.14
1:K:260:VAL:HG11	1:K:328:GLN:HG3	1.20	1.14
1:L:228:PHE:CE2	1:L:230:PHE:HE1	1.64	1.14
1:Y:228:PHE:CE2	1:Y:230:PHE:HE1	1.64	1.14
1:5:260:VAL:HG11	1:5:328:GLN:HG3	1.20	1.14
1:a:228:PHE:CE2	1:a:230:PHE:HE1	1.64	1.14
1:b:228:PHE:CE2	1:b:230:PHE:HE1	1.64	1.14
1:c:46:VAL:HG11	1:d:209:ARG:HB3	1.21	1.14
1:c:228:PHE:CE2	1:c:230:PHE:HE1	1.64	1.14
1:g:228:PHE:CE2	1:g:230:PHE:HE1	1.64	1.14
1:w:260:VAL:HG11	1:w:328:GLN:HG3	1.20	1.14
1:x:228:PHE:CE2	1:x:230:PHE:HE1	1.64	1.14
1:1:228:PHE:CE2	1:1:230:PHE:HE1	1.64	1.14
1:H:209:ARG:HB3	1:Y:46:VAL:HG11	1.21	1.14
1:P:228:PHE:CE2	1:P:230:PHE:HE1	1.64	1.14
1:V:228:PHE:CE2	1:V:230:PHE:HE1	1.64	1.14
1:X:228:PHE:CE2	1:X:230:PHE:HE1	1.64	1.14
1:X:260:VAL:HG11	1:X:328:GLN:HG3	1.20	1.14
1:N:122:THR:HG22	1:N:123:LYS:H	1.14	1.14
1:N:228:PHE:CE2	1:N:230:PHE:HE1	1.64	1.14
1:1:122:THR:HG22	1:1:123:LYS:H	1.14	1.14
1:H:260:VAL:HG11	1:H:328:GLN:HG3	1.20	1.13
1:K:46:VAL:HG11	1:8:209:ARG:HB3	1.20	1.13
1:b:260:VAL:HG11	1:b:328:GLN:HG3	1.20	1.13
1:d:260:VAL:HG11	1:d:328:GLN:HG3	1.20	1.13
1:D:209:ARG:HB3	1:P:46:VAL:HG11	1.21	1.13
1:O:209:ARG:HB3	1:h:46:VAL:HG11	1.22	1.13
1:6:209:ARG:HB3	1:j:46:VAL:HG11	1.20	1.13
1:u:46:VAL:HG11	1:v:209:ARG:HB3	1.21	1.13
1:y:46:VAL:HG11	1:z:209:ARG:HB3	1.21	1.13
1:J:228:PHE:CE2	1:J:230:PHE:HE1	1.64	1.13
1:M:122:THR:HG22	1:M:123:LYS:H	1.13	1.13
1:8:46:VAL:HG11	1:2:209:ARG:HB3	1.22	1.13
1:g:46:VAL:HG11	1:h:209:ARG:HB3	1.20	1.13
1:i:122:THR:HG22	1:i:123:LYS:H	1.13	1.13
1:q:260:VAL:HG11	1:q:328:GLN:HG3	1.20	1.13
1:y:260:VAL:HG11	1:y:328:GLN:HG3	1.20	1.13
1:G:260:VAL:HG11	1:G:328:GLN:HG3	1.20	1.12
1:J:46:VAL:HG11	1:L:209:ARG:HB3	1.20	1.12
1:M:260:VAL:HG11	1:M:328:GLN:HG3	1.20	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:260:VAL:HG11	1:O:328:GLN:HG3	1.20	1.12
1:P:260:VAL:HG11	1:P:328:GLN:HG3	1.20	1.13
1:l:228:PHE:CE2	1:l:230:PHE:HE1	1.64	1.13
1:2:260:VAL:HG11	1:2:328:GLN:HG3	1.20	1.13
1:m:260:VAL:HG11	1:m:328:GLN:HG3	1.20	1.12
1:E:260:VAL:HG11	1:E:328:GLN:HG3	1.20	1.12
1:R:46:VAL:HG11	1:S:209:ARG:HB3	1.21	1.12
1:a:209:ARG:HB3	1:b:46:VAL:HG11	1.21	1.12
1:w:209:ARG:HB3	1:x:46:VAL:HG11	1.20	1.12
1:R:209:ARG:HB3	1:U:46:VAL:HG11	1.21	1.12
1:T:46:VAL:HG11	1:5:209:ARG:HB3	1.20	1.12
1:Y:122:THR:HG22	1:Y:123:LYS:H	1.14	1.12
1:8:260:VAL:HG11	1:8:328:GLN:HG3	1.20	1.12
1:h:260:VAL:HG11	1:h:328:GLN:HG3	1.20	1.12
1:j:122:THR:HG22	1:j:123:LYS:H	1.13	1.12
1:l:46:VAL:HG11	1:m:209:ARG:HB3	1.20	1.12
1:n:260:VAL:HG11	1:n:328:GLN:HG3	1.20	1.12
1:t:46:VAL:HG11	1:u:209:ARG:HB3	1.21	1.12
1:T:122:THR:HG22	1:T:123:LYS:H	1.14	1.12
1:V:209:ARG:HB3	1:X:46:VAL:HG11	1.21	1.12
1:c:122:THR:HG22	1:c:123:LYS:H	1.13	1.12
1:i:260:VAL:HG11	1:i:328:GLN:HG3	1.20	1.12
1:l:122:THR:HG22	1:l:123:LYS:H	1.13	1.12
1:o:260:VAL:HG11	1:o:328:GLN:HG3	1.20	1.12
1:v:260:VAL:HG11	1:v:328:GLN:HG3	1.20	1.12
1:z:260:VAL:HG11	1:z:328:GLN:HG3	1.20	1.12
1:C:122:THR:HG22	1:C:123:LYS:H	1.13	1.12
1:L:260:VAL:HG11	1:L:328:GLN:HG3	1.20	1.12
1:O:122:THR:HG22	1:O:123:LYS:H	1.13	1.12
1:Q:260:VAL:HG11	1:Q:328:GLN:HG3	1.20	1.12
1:V:260:VAL:HG11	1:V:328:GLN:HG3	1.20	1.12
1:J:122:THR:HG22	1:J:123:LYS:H	1.13	1.11
1:x:122:THR:HG22	1:x:123:LYS:H	1.14	1.11
1:x:260:VAL:HG11	1:x:328:GLN:HG3	1.20	1.11
1:z:46:VAL:HG11	1:1:209:ARG:HB3	1.21	1.11
1:Q:122:THR:HG22	1:Q:123:LYS:H	1.13	1.11
1:S:260:VAL:HG11	1:S:328:GLN:HG3	1.20	1.11
1:k:260:VAL:HG11	1:k:328:GLN:HG3	1.20	1.11
1:2:122:THR:HG22	1:2:123:LYS:H	1.13	1.11
1:D:260:VAL:HG11	1:D:328:GLN:HG3	1.20	1.11
1:F:260:VAL:HG11	1:F:328:GLN:HG3	1.20	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:260:VAL:HG11	1:R:328:GLN:HG3	1.20	1.11
1:a:260:VAL:HG11	1:a:328:GLN:HG3	1.20	1.11
1:o:122:THR:HG22	1:o:123:LYS:H	1.14	1.11
1:B:260:VAL:HG11	1:B:328:GLN:HG3	1.20	1.11
1:D:46:VAL:HG11	1:N:209:ARG:HB3	1.21	1.11
1:R:122:THR:HG22	1:R:123:LYS:H	1.13	1.11
1:T:260:VAL:HG11	1:T:328:GLN:HG3	1.20	1.11
1:4:122:THR:HG22	1:4:123:LYS:H	1.13	1.11
1:v:122:THR:HG22	1:v:123:LYS:H	1.13	1.11
1:3:122:THR:HG22	1:3:123:LYS:H	1.14	1.10
1:S:122:THR:HG22	1:S:123:LYS:H	1.13	1.10
1:p:260:VAL:HG11	1:p:328:GLN:HG3	1.20	1.10
1:u:122:THR:HG22	1:u:123:LYS:H	1.13	1.10
1:n:46:VAL:HG11	1:o:209:ARG:HB3	1.21	1.10
1:p:122:THR:HG22	1:p:123:LYS:H	1.13	1.10
1:u:260:VAL:HG11	1:u:328:GLN:HG3	1.20	1.10
1:F:122:THR:HG22	1:F:123:LYS:H	1.13	1.10
1:8:122:THR:HG22	1:8:123:LYS:H	1.14	1.10
1:j:260:VAL:HG11	1:j:328:GLN:HG3	1.20	1.10
1:q:209:ARG:HB3	1:s:46:VAL:HG11	1.20	1.10
1:6:46:VAL:HG11	1:i:209:ARG:HB3	1.20	1.10
1:f:122:THR:HG22	1:f:123:LYS:H	1.14	1.10
1:E:46:VAL:HG11	1:Q:209:ARG:HB3	1.21	1.09
1:W:122:THR:HG22	1:W:123:LYS:H	1.13	1.09
1:g:122:THR:HG22	1:g:123:LYS:H	1.14	1.09
1:h:122:THR:HG22	1:h:123:LYS:H	1.14	1.09
1:A:46:VAL:HG11	1:G:209:ARG:HB3	1.20	1.09
1:C:260:VAL:HG11	1:C:328:GLN:HG3	1.20	1.09
1:Z:122:THR:HG22	1:Z:123:LYS:H	1.13	1.09
1:o:46:VAL:HG11	1:p:209:ARG:HB3	1.21	1.09
1:F:209:ARG:HB3	1:Q:46:VAL:HG11	1.20	1.09
1:S:228:PHE:HE2	1:S:230:PHE:CE1	1.71	1.09
1:Z:228:PHE:HE2	1:Z:230:PHE:CE1	1.71	1.09
1:e:122:THR:HG22	1:e:123:LYS:H	1.14	1.09
1:p:228:PHE:HE2	1:p:230:PHE:CE1	1.71	1.09
1:v:228:PHE:HE2	1:v:230:PHE:CE1	1.71	1.09
1:E:122:THR:HG22	1:E:123:LYS:H	1.13	1.09
1:F:228:PHE:HE2	1:F:230:PHE:CE1	1.71	1.09
1:K:122:THR:HG22	1:K:123:LYS:H	1.14	1.09
1:M:209:ARG:HB3	1:7:46:VAL:HG11	1.18	1.09
1:Q:228:PHE:HE2	1:Q:230:PHE:CE1	1.71	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:209:ARG:HB3	1:f:46:VAL:HG11	1.21	1.09
1:Z:46:VAL:HG11	1:x:209:ARG:HB3	1.21	1.09
1:f:228:PHE:HE2	1:f:230:PHE:CE1	1.71	1.09
1:o:228:PHE:HE2	1:o:230:PHE:CE1	1.71	1.09
1:s:260:VAL:HG11	1:s:328:GLN:HG3	1.20	1.09
1:D:228:PHE:HE2	1:D:230:PHE:CE1	1.71	1.09
1:H:46:VAL:HG11	1:W:209:ARG:HB3	1.21	1.09
1:O:228:PHE:HE2	1:O:230:PHE:CE1	1.71	1.09
1:V:228:PHE:HE2	1:V:230:PHE:CE1	1.71	1.09
1:a:228:PHE:HE2	1:a:230:PHE:CE1	1.71	1.09
1:c:209:ARG:HB3	1:e:46:VAL:HG11	1.21	1.09
1:d:228:PHE:HE2	1:d:230:PHE:CE1	1.71	1.09
1:n:122:THR:HG22	1:n:123:LYS:H	1.13	1.09
1:t:122:THR:HG22	1:t:123:LYS:H	1.13	1.09
1:2:228:PHE:HE2	1:2:230:PHE:CE1	1.71	1.09
1:A:228:PHE:HE2	1:A:230:PHE:CE1	1.71	1.08
1:H:228:PHE:HE2	1:H:230:PHE:CE1	1.71	1.08
1:s:228:PHE:HE2	1:s:230:PHE:CE1	1.71	1.08
1:z:228:PHE:HE2	1:z:230:PHE:CE1	1.71	1.08
1:A:260:VAL:HG11	1:A:328:GLN:HG3	1.20	1.08
1:y:228:PHE:HE2	1:y:230:PHE:CE1	1.71	1.08
1:J:228:PHE:HE2	1:J:230:PHE:CE1	1.71	1.08
1:P:228:PHE:HE2	1:P:230:PHE:CE1	1.71	1.08
1:U:122:THR:HG22	1:U:123:LYS:H	1.13	1.08
1:W:46:VAL:HG11	1:Y:209:ARG:HB3	1.21	1.08
1:7:228:PHE:HE2	1:7:230:PHE:CE1	1.71	1.08
1:6:228:PHE:HE2	1:6:230:PHE:CE1	1.71	1.08
1:d:46:VAL:HG11	1:e:209:ARG:HB3	1.21	1.08
1:l:228:PHE:HE2	1:l:230:PHE:CE1	1.71	1.08
1:K:228:PHE:HE2	1:K:230:PHE:CE1	1.71	1.08
1:L:228:PHE:HE2	1:L:230:PHE:CE1	1.71	1.08
1:R:228:PHE:HE2	1:R:230:PHE:CE1	1.71	1.08
1:W:228:PHE:HE2	1:W:230:PHE:CE1	1.71	1.08
1:X:228:PHE:HE2	1:X:230:PHE:CE1	1.71	1.08
1:Y:228:PHE:HE2	1:Y:230:PHE:CE1	1.71	1.08
1:b:228:PHE:HE2	1:b:230:PHE:CE1	1.71	1.08
1:c:228:PHE:HE2	1:c:230:PHE:CE1	1.71	1.08
1:g:228:PHE:HE2	1:g:230:PHE:CE1	1.71	1.08
1:m:228:PHE:HE2	1:m:230:PHE:CE1	1.71	1.08
1:u:228:PHE:HE2	1:u:230:PHE:CE1	1.71	1.08
1:B:228:PHE:HE2	1:B:230:PHE:CE1	1.71	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:260:VAL:HG11	1:W:328:GLN:HG3	1.20	1.08
1:e:228:PHE:HE2	1:e:230:PHE:CE1	1.71	1.08
1:k:228:PHE:HE2	1:k:230:PHE:CE1	1.71	1.08
1:C:228:PHE:HE2	1:C:230:PHE:CE1	1.71	1.07
1:E:228:PHE:HE2	1:E:230:PHE:CE1	1.71	1.07
1:I:228:PHE:HE2	1:I:230:PHE:CE1	1.71	1.07
1:M:228:PHE:HE2	1:M:230:PHE:CE1	1.71	1.07
1:h:228:PHE:HE2	1:h:230:PHE:CE1	1.71	1.07
1:i:228:PHE:HE2	1:i:230:PHE:CE1	1.71	1.07
1:j:228:PHE:HE2	1:j:230:PHE:CE1	1.71	1.07
1:r:228:PHE:HE2	1:r:230:PHE:CE1	1.71	1.07
1:B:122:THR:HG22	1:B:123:LYS:H	1.13	1.07
1:8:228:PHE:HE2	1:8:230:PHE:CE1	1.71	1.07
1:n:228:PHE:HE2	1:n:230:PHE:CE1	1.71	1.07
1:G:122:THR:HG22	1:G:123:LYS:H	1.13	1.07
1:4:228:PHE:HE2	1:4:230:PHE:CE1	1.71	1.07
1:d:122:THR:HG22	1:d:123:LYS:H	1.13	1.07
1:x:228:PHE:HE2	1:x:230:PHE:CE1	1.71	1.07
1:T:228:PHE:HE2	1:T:230:PHE:CE1	1.71	1.07
1:V:122:THR:HG22	1:V:123:LYS:H	1.13	1.07
1:3:228:PHE:HE2	1:3:230:PHE:CE1	1.71	1.07
1:e:260:VAL:HG11	1:e:328:GLN:HG3	1.20	1.07
1:t:228:PHE:HE2	1:t:230:PHE:CE1	1.71	1.07
1:1:228:PHE:HE2	1:1:230:PHE:CE1	1.71	1.07
1:N:228:PHE:HE2	1:N:230:PHE:CE1	1.71	1.07
1:U:228:PHE:HE2	1:U:230:PHE:CE1	1.71	1.07
1:k:122:THR:HG22	1:k:123:LYS:H	1.13	1.07
1:D:122:THR:HG22	1:D:123:LYS:H	1.13	1.06
1:H:122:THR:HG22	1:H:123:LYS:H	1.13	1.06
1:5:228:PHE:HE2	1:5:230:PHE:CE1	1.71	1.06
1:q:122:THR:HG22	1:q:123:LYS:H	1.13	1.06
1:z:122:THR:HG22	1:z:123:LYS:H	1.13	1.06
1:X:122:THR:HG22	1:X:123:LYS:H	1.14	1.06
1:w:228:PHE:HE2	1:w:230:PHE:CE1	1.71	1.06
1:a:122:THR:HG22	1:a:123:LYS:H	1.13	1.06
1:q:228:PHE:HE2	1:q:230:PHE:CE1	1.71	1.06
1:G:228:PHE:HE2	1:G:230:PHE:CE1	1.71	1.06
1:I:122:THR:HG22	1:I:123:LYS:H	1.13	1.06
1:6:122:THR:HG22	1:6:123:LYS:H	1.13	1.06
1:7:122:THR:HG22	1:7:123:LYS:H	1.13	1.06
1:b:122:THR:HG22	1:b:123:LYS:H	1.14	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:122:THR:HG22	1:m:123:LYS:H	1.13	1.05
1:r:122:THR:HG22	1:r:123:LYS:H	1.13	1.05
1:w:122:THR:HG22	1:w:123:LYS:H	1.14	1.05
1:L:122:THR:HG22	1:L:123:LYS:H	1.13	1.05
1:5:122:THR:HG22	1:5:123:LYS:H	1.13	1.05
1:s:122:THR:HG22	1:s:123:LYS:H	1.14	1.04
1:A:122:THR:HG22	1:A:123:LYS:H	1.13	1.04
1:P:122:THR:HG22	1:P:123:LYS:H	1.13	1.04
1:y:122:THR:HG22	1:y:123:LYS:H	1.14	1.04
1:C:260:VAL:CG1	1:C:328:GLN:HG3	1.89	1.03
1:7:260:VAL:CG1	1:7:328:GLN:HG3	1.89	1.03
1:6:260:VAL:CG1	1:6:328:GLN:HG3	1.89	1.03
1:j:260:VAL:CG1	1:j:328:GLN:HG3	1.89	1.03
1:s:260:VAL:CG1	1:s:328:GLN:HG3	1.89	1.03
1:A:260:VAL:CG1	1:A:328:GLN:HG3	1.89	1.03
1:D:260:VAL:CG1	1:D:328:GLN:HG3	1.89	1.03
1:J:260:VAL:CG1	1:J:328:GLN:HG3	1.89	1.03
1:Q:260:VAL:CG1	1:Q:328:GLN:HG3	1.89	1.03
1:l:260:VAL:CG1	1:l:328:GLN:HG3	1.89	1.03
1:o:260:VAL:CG1	1:o:328:GLN:HG3	1.89	1.03
1:z:260:VAL:CG1	1:z:328:GLN:HG3	1.89	1.03
1:X:260:VAL:CG1	1:X:328:GLN:HG3	1.89	1.03
1:L:260:VAL:CG1	1:L:328:GLN:HG3	1.89	1.02
1:b:260:VAL:CG1	1:b:328:GLN:HG3	1.89	1.02
1:m:260:VAL:CG1	1:m:328:GLN:HG3	1.89	1.02
1:K:260:VAL:CG1	1:K:328:GLN:HG3	1.89	1.02
1:V:122:THR:HG22	1:V:123:LYS:N	1.73	1.02
1:a:122:THR:HG22	1:a:123:LYS:N	1.73	1.02
1:g:260:VAL:CG1	1:g:328:GLN:HG3	1.89	1.02
1:N:122:THR:HG22	1:N:123:LYS:N	1.73	1.02
1:F:260:VAL:CG1	1:F:328:GLN:HG3	1.89	1.02
1:R:260:VAL:CG1	1:R:328:GLN:HG3	1.89	1.02
1:p:260:VAL:CG1	1:p:328:GLN:HG3	1.89	1.02
1:u:260:VAL:CG1	1:u:328:GLN:HG3	1.89	1.02
1:v:260:VAL:CG1	1:v:328:GLN:HG3	1.89	1.02
1:1:122:THR:HG22	1:1:123:LYS:N	1.73	1.02
1:M:260:VAL:CG1	1:M:328:GLN:HG3	1.89	1.02
1:O:260:VAL:CG1	1:O:328:GLN:HG3	1.89	1.02
1:Y:260:VAL:CG1	1:Y:328:GLN:HG3	1.89	1.02
1:3:260:VAL:CG1	1:3:328:GLN:HG3	1.89	1.02
1:c:260:VAL:CG1	1:c:328:GLN:HG3	1.89	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:260:VAL:CG1	1:e:328:GLN:HG3	1.89	1.02
1:i:260:VAL:CG1	1:i:328:GLN:HG3	1.89	1.02
1:r:260:VAL:CG1	1:r:328:GLN:HG3	1.89	1.02
1:B:260:VAL:CG1	1:B:328:GLN:HG3	1.89	1.01
1:I:260:VAL:CG1	1:I:328:GLN:HG3	1.89	1.01
1:S:260:VAL:CG1	1:S:328:GLN:HG3	1.89	1.01
1:T:260:VAL:CG1	1:T:328:GLN:HG3	1.89	1.01
1:W:260:VAL:CG1	1:W:328:GLN:HG3	1.89	1.01
1:Z:260:VAL:CG1	1:Z:328:GLN:HG3	1.89	1.01
1:5:260:VAL:CG1	1:5:328:GLN:HG3	1.89	1.01
1:4:260:VAL:CG1	1:4:328:GLN:HG3	1.89	1.01
1:f:260:VAL:CG1	1:f:328:GLN:HG3	1.89	1.01
1:2:260:VAL:CG1	1:2:328:GLN:HG3	1.89	1.01
1:E:260:VAL:CG1	1:E:328:GLN:HG3	1.89	1.01
1:H:260:VAL:CG1	1:H:328:GLN:HG3	1.89	1.01
1:k:260:VAL:CG1	1:k:328:GLN:HG3	1.89	1.01
1:n:260:VAL:CG1	1:n:328:GLN:HG3	1.89	1.01
1:w:260:VAL:CG1	1:w:328:GLN:HG3	1.89	1.01
1:x:260:VAL:CG1	1:x:328:GLN:HG3	1.89	1.01
1:1:260:VAL:CG1	1:1:328:GLN:HG3	1.89	1.01
1:N:260:VAL:CG1	1:N:328:GLN:HG3	1.89	1.01
1:Q:122:THR:HG22	1:Q:123:LYS:N	1.73	1.01
1:d:260:VAL:CG1	1:d:328:GLN:HG3	1.89	1.01
1:o:122:THR:HG22	1:o:123:LYS:N	1.73	1.01
1:y:260:VAL:CG1	1:y:328:GLN:HG3	1.89	1.01
1:P:260:VAL:CG1	1:P:328:GLN:HG3	1.89	1.01
1:7:122:THR:HG22	1:7:123:LYS:N	1.73	1.01
1:S:122:THR:HG22	1:S:123:LYS:N	1.73	1.01
1:U:260:VAL:CG1	1:U:328:GLN:HG3	1.89	1.01
1:8:260:VAL:CG1	1:8:328:GLN:HG3	1.89	1.01
1:6:122:THR:HG22	1:6:123:LYS:N	1.73	1.01
1:t:260:VAL:CG1	1:t:328:GLN:HG3	1.89	1.01
1:V:260:VAL:CG1	1:V:328:GLN:HG3	1.89	1.00
1:a:260:VAL:CG1	1:a:328:GLN:HG3	1.89	1.00
1:h:228:PHE:CE2	1:h:230:PHE:CE1	2.49	1.00
1:h:260:VAL:CG1	1:h:328:GLN:HG3	1.89	1.00
1:k:228:PHE:CE2	1:k:230:PHE:CE1	2.49	1.00
1:B:228:PHE:CE2	1:B:230:PHE:CE1	2.49	1.00
1:G:260:VAL:CG1	1:G:328:GLN:HG3	1.89	1.00
1:q:260:VAL:CG1	1:q:328:GLN:HG3	1.89	1.00
1:v:122:THR:HG22	1:v:123:LYS:N	1.73	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:228:PHE:CE2	1:I:230:PHE:CE1	2.49	1.00
1:4:228:PHE:CE2	1:4:230:PHE:CE1	2.49	1.00
1:3:228:PHE:CE2	1:3:230:PHE:CE1	2.49	1.00
1:c:122:THR:HG22	1:c:123:LYS:N	1.73	1.00
1:n:122:THR:HG22	1:n:123:LYS:N	1.73	1.00
1:r:228:PHE:CE2	1:r:230:PHE:CE1	2.49	1.00
1:E:122:THR:HG22	1:E:123:LYS:N	1.73	1.00
1:Y:122:THR:HG22	1:Y:123:LYS:N	1.73	1.00
1:g:228:PHE:CE2	1:g:230:PHE:CE1	2.49	1.00
1:J:122:THR:HG22	1:J:123:LYS:N	1.73	1.00
1:K:228:PHE:CE2	1:K:230:PHE:CE1	2.49	1.00
1:C:122:THR:HG22	1:C:123:LYS:N	1.73	0.99
1:Z:228:PHE:CE2	1:Z:230:PHE:CE1	2.49	0.99
1:f:228:PHE:CE2	1:f:230:PHE:CE1	2.49	0.99
1:l:122:THR:HG22	1:l:123:LYS:N	1.73	0.99
1:b:228:PHE:CE2	1:b:230:PHE:CE1	2.49	0.99
1:j:122:THR:HG22	1:j:123:LYS:N	1.73	0.99
1:s:122:THR:HG22	1:s:123:LYS:N	1.73	0.99
1:X:228:PHE:CE2	1:X:230:PHE:CE1	2.49	0.99
1:t:122:THR:HG22	1:t:123:LYS:N	1.73	0.99
1:8:122:THR:HG22	1:8:123:LYS:N	1.73	0.99
1:A:122:THR:HG22	1:A:123:LYS:N	1.73	0.99
1:U:122:THR:HG22	1:U:123:LYS:N	1.73	0.99
1:V:228:PHE:CE2	1:V:230:PHE:CE1	2.49	0.99
1:F:228:PHE:CE2	1:F:230:PHE:CE1	2.49	0.99
1:h:122:THR:HG22	1:h:123:LYS:N	1.73	0.99
1:D:228:PHE:CE2	1:D:230:PHE:CE1	2.49	0.98
1:a:228:PHE:CE2	1:a:230:PHE:CE1	2.49	0.98
1:p:228:PHE:CE2	1:p:230:PHE:CE1	2.49	0.98
1:2:122:THR:HG22	1:2:123:LYS:N	1.73	0.98
1:z:228:PHE:CE2	1:z:230:PHE:CE1	2.49	0.98
1:4:122:THR:HG22	1:4:123:LYS:N	1.73	0.98
1:O:122:THR:HG22	1:O:123:LYS:N	1.73	0.98
1:z:122:THR:HG22	1:z:123:LYS:N	1.73	0.98
1:M:209:ARG:CB	1:7:46:VAL:HG11	1.93	0.98
1:i:122:THR:HG22	1:i:123:LYS:N	1.73	0.98
1:3:122:THR:HG22	1:3:123:LYS:N	1.73	0.98
1:M:122:THR:HG22	1:M:123:LYS:N	1.73	0.97
1:y:122:THR:HG22	1:y:123:LYS:N	1.73	0.97
1:7:228:PHE:CE2	1:7:230:PHE:CE1	2.49	0.97
1:L:122:THR:HG22	1:L:123:LYS:N	1.73	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:260:VAL:HG11	1:I:328:GLN:CG	1.95	0.97
1:P:122:THR:HG22	1:P:123:LYS:N	1.73	0.97
1:6:228:PHE:CE2	1:6:230:PHE:CE1	2.49	0.97
1:r:122:THR:HG22	1:r:123:LYS:N	1.73	0.97
1:u:228:PHE:CE2	1:u:230:PHE:CE1	2.49	0.97
1:y:228:PHE:CE2	1:y:230:PHE:CE1	2.49	0.97
1:E:228:PHE:CE2	1:E:230:PHE:CE1	2.49	0.97
1:R:228:PHE:CE2	1:R:230:PHE:CE1	2.49	0.97
1:d:122:THR:HG22	1:d:123:LYS:N	1.73	0.97
1:l:260:VAL:HG11	1:l:328:GLN:CG	1.95	0.97
1:m:122:THR:HG22	1:m:123:LYS:N	1.73	0.97
1:r:260:VAL:HG11	1:r:328:GLN:CG	1.95	0.97
1:H:122:THR:HG22	1:H:123:LYS:N	1.73	0.97
1:I:122:THR:HG22	1:I:123:LYS:N	1.73	0.97
1:J:260:VAL:HG11	1:J:328:GLN:CG	1.95	0.97
1:Y:260:VAL:HG11	1:Y:328:GLN:CG	1.95	0.97
1:N:228:PHE:CE2	1:N:230:PHE:CE1	2.49	0.97
1:P:228:PHE:CE2	1:P:230:PHE:CE1	2.49	0.97
1:c:260:VAL:HG11	1:c:328:GLN:CG	1.95	0.97
1:p:260:VAL:HG11	1:p:328:GLN:CG	1.95	0.97
1:t:228:PHE:CE2	1:t:230:PHE:CE1	2.49	0.96
1:F:260:VAL:HG11	1:F:328:GLN:CG	1.95	0.96
1:O:260:VAL:HG11	1:O:328:GLN:CG	1.95	0.96
1:W:122:THR:HG22	1:W:123:LYS:N	1.73	0.96
1:3:46:VAL:HG11	1:b:209:ARG:CB	1.95	0.96
1:b:122:THR:HG22	1:b:123:LYS:N	1.73	0.96
1:n:228:PHE:CE2	1:n:230:PHE:CE1	2.49	0.96
1:w:122:THR:HG22	1:w:123:LYS:N	1.73	0.96
1:1:228:PHE:CE2	1:1:230:PHE:CE1	2.49	0.96
1:M:260:VAL:HG11	1:M:328:GLN:CG	1.95	0.96
1:P:260:VAL:HG11	1:P:328:GLN:CG	1.95	0.96
1:X:209:ARG:CB	1:4:46:VAL:HG11	1.95	0.96
1:8:260:VAL:HG11	1:8:328:GLN:CG	1.95	0.96
1:5:122:THR:HG22	1:5:123:LYS:N	1.73	0.96
1:j:260:VAL:HG11	1:j:328:GLN:CG	1.95	0.96
1:C:260:VAL:HG11	1:C:328:GLN:CG	1.95	0.96
1:K:260:VAL:HG11	1:K:328:GLN:CG	1.95	0.96
1:6:46:VAL:HG11	1:i:209:ARG:CB	1.95	0.96
1:a:260:VAL:HG11	1:a:328:GLN:CG	1.95	0.96
1:g:260:VAL:HG11	1:g:328:GLN:CG	1.95	0.96
1:h:260:VAL:HG11	1:h:328:GLN:CG	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:260:VAL:HG11	1:i:328:GLN:CG	1.95	0.96
1:x:122:THR:HG22	1:x:123:LYS:N	1.73	0.96
1:y:260:VAL:HG11	1:y:328:GLN:CG	1.95	0.96
1:2:260:VAL:HG11	1:2:328:GLN:CG	1.95	0.96
1:A:209:ARG:CB	1:I:46:VAL:HG11	1.95	0.96
1:R:46:VAL:HG11	1:S:209:ARG:CB	1.96	0.96
1:U:228:PHE:CE2	1:U:230:PHE:CE1	2.49	0.96
1:U:260:VAL:HG11	1:U:328:GLN:CG	1.95	0.96
1:V:46:VAL:HG11	1:4:209:ARG:CB	1.95	0.96
1:W:260:VAL:HG11	1:W:328:GLN:CG	1.95	0.96
1:X:260:VAL:HG11	1:X:328:GLN:CG	1.95	0.96
1:b:260:VAL:HG11	1:b:328:GLN:CG	1.95	0.96
1:c:209:ARG:CB	1:e:46:VAL:HG11	1.96	0.96
1:e:260:VAL:HG11	1:e:328:GLN:CG	1.95	0.96
1:k:243:ASN:HD22	1:k:246:MET:HG2	1.31	0.96
1:u:46:VAL:HG11	1:v:209:ARG:CB	1.96	0.96
1:B:243:ASN:HD22	1:B:246:MET:HG2	1.31	0.96
1:B:260:VAL:HG11	1:B:328:GLN:CG	1.95	0.96
1:C:228:PHE:CE2	1:C:230:PHE:CE1	2.49	0.96
1:Q:260:VAL:HG11	1:Q:328:GLN:CG	1.95	0.96
1:W:46:VAL:HG11	1:Y:209:ARG:CB	1.96	0.96
1:e:122:THR:HG22	1:e:123:LYS:N	1.73	0.96
1:k:260:VAL:HG11	1:k:328:GLN:CG	1.95	0.96
1:l:243:ASN:HD22	1:l:246:MET:HG2	1.31	0.96
1:t:260:VAL:HG11	1:t:328:GLN:CG	1.95	0.96
1:B:209:ARG:CB	1:L:46:VAL:HG11	1.95	0.96
1:E:260:VAL:HG11	1:E:328:GLN:CG	1.95	0.96
1:J:228:PHE:CE2	1:J:230:PHE:CE1	2.49	0.96
1:N:260:VAL:HG11	1:N:328:GLN:CG	1.95	0.96
1:V:260:VAL:HG11	1:V:328:GLN:CG	1.95	0.96
1:X:122:THR:HG22	1:X:123:LYS:N	1.73	0.96
1:3:209:ARG:CB	1:a:46:VAL:HG11	1.95	0.96
1:b:243:ASN:HD22	1:b:246:MET:HG2	1.31	0.96
1:o:260:VAL:HG11	1:o:328:GLN:CG	1.95	0.96
1:E:209:ARG:CB	1:F:46:VAL:HG11	1.96	0.96
1:H:243:ASN:HD22	1:H:246:MET:HG2	1.31	0.96
1:J:243:ASN:HD22	1:J:246:MET:HG2	1.31	0.96
1:5:243:ASN:HD22	1:5:246:MET:HG2	1.31	0.96
1:j:228:PHE:CE2	1:j:230:PHE:CE1	2.49	0.96
1:k:122:THR:HG22	1:k:123:LYS:N	1.73	0.96
1:n:260:VAL:HG11	1:n:328:GLN:CG	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:243:ASN:HD22	1:r:246:MET:HG2	1.31	0.96
1:t:209:ARG:CB	1:v:46:VAL:HG11	1.96	0.96
1:w:243:ASN:HD22	1:w:246:MET:HG2	1.31	0.96
1:1:260:VAL:HG11	1:1:328:GLN:CG	1.95	0.96
1:d:243:ASN:HD22	1:d:246:MET:HG2	1.31	0.96
1:f:122:THR:HG22	1:f:123:LYS:N	1.73	0.96
1:k:209:ARG:CB	1:m:46:VAL:HG11	1.95	0.96
1:l:228:PHE:CE2	1:l:230:PHE:CE1	2.49	0.96
1:B:122:THR:HG22	1:B:123:LYS:N	1.73	0.96
1:I:243:ASN:HD22	1:I:246:MET:HG2	1.31	0.96
1:O:243:ASN:HD22	1:O:246:MET:HG2	1.31	0.96
1:S:46:VAL:HG11	1:U:209:ARG:CB	1.96	0.96
1:T:122:THR:HG22	1:T:123:LYS:N	1.73	0.96
1:X:243:ASN:HD22	1:X:246:MET:HG2	1.31	0.96
1:2:243:ASN:HD22	1:2:246:MET:HG2	1.31	0.96
1:5:260:VAL:HG11	1:5:328:GLN:CG	1.95	0.95
1:n:46:VAL:HG11	1:o:209:ARG:CB	1.96	0.95
1:n:209:ARG:CB	1:p:46:VAL:HG11	1.96	0.95
1:q:122:THR:HG22	1:q:123:LYS:N	1.73	0.95
1:t:46:VAL:HG11	1:u:209:ARG:CB	1.96	0.95
1:y:209:ARG:CB	1:1:46:VAL:HG11	1.96	0.95
1:D:46:VAL:HG11	1:N:209:ARG:CB	1.96	0.95
1:N:46:VAL:HG11	1:P:209:ARG:CB	1.96	0.95
1:4:260:VAL:HG11	1:4:328:GLN:CG	1.95	0.95
1:p:122:THR:HG22	1:p:123:LYS:N	1.73	0.95
1:q:46:VAL:HG11	1:r:209:ARG:CB	1.96	0.95
1:E:46:VAL:HG11	1:Q:209:ARG:CB	1.96	0.95
1:G:46:VAL:HG11	1:I:209:ARG:CB	1.96	0.95
1:P:243:ASN:HD22	1:P:246:MET:HG2	1.31	0.95
1:R:209:ARG:CB	1:U:46:VAL:HG11	1.96	0.95
1:3:260:VAL:HG11	1:3:328:GLN:CG	1.95	0.95
1:g:122:THR:HG22	1:g:123:LYS:N	1.73	0.95
1:o:46:VAL:HG11	1:p:209:ARG:CB	1.95	0.95
1:o:228:PHE:CE2	1:o:230:PHE:CE1	2.49	0.95
1:r:46:VAL:HG11	1:s:209:ARG:CB	1.96	0.95
1:u:260:VAL:HG11	1:u:328:GLN:CG	1.95	0.95
1:w:260:VAL:HG11	1:w:328:GLN:CG	1.95	0.95
1:y:243:ASN:HD22	1:y:246:MET:HG2	1.31	0.95
1:z:46:VAL:HG11	1:1:209:ARG:CB	1.96	0.95
1:C:46:VAL:HG11	1:7:209:ARG:CB	1.95	0.95
1:F:243:ASN:HD22	1:F:246:MET:HG2	1.31	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:122:THR:HG22	1:G:123:LYS:N	1.73	0.95
1:T:46:VAL:HG11	1:5:209:ARG:CB	1.96	0.95
1:Z:122:THR:HG22	1:Z:123:LYS:N	1.73	0.95
1:w:209:ARG:CB	1:x:46:VAL:HG11	1.96	0.95
1:A:46:VAL:HG11	1:G:209:ARG:CB	1.95	0.95
1:F:209:ARG:CB	1:Q:46:VAL:HG11	1.96	0.95
1:Q:228:PHE:CE2	1:Q:230:PHE:CE1	2.49	0.95
1:6:260:VAL:HG11	1:6:328:GLN:CG	1.95	0.95
1:i:228:PHE:CE2	1:i:230:PHE:CE1	2.49	0.95
1:m:228:PHE:CE2	1:m:230:PHE:CE1	2.49	0.95
1:G:260:VAL:HG11	1:G:328:GLN:CG	1.95	0.95
1:M:228:PHE:CE2	1:M:230:PHE:CE1	2.49	0.95
1:R:260:VAL:HG11	1:R:328:GLN:CG	1.95	0.95
1:S:260:VAL:HG11	1:S:328:GLN:CG	1.95	0.95
1:8:46:VAL:HG11	1:2:209:ARG:CB	1.97	0.95
1:7:260:VAL:HG11	1:7:328:GLN:CG	1.95	0.95
1:6:209:ARG:CB	1:j:46:VAL:HG11	1.95	0.95
1:m:260:VAL:HG11	1:m:328:GLN:CG	1.95	0.95
1:p:243:ASN:HD22	1:p:246:MET:HG2	1.31	0.95
1:q:209:ARG:CB	1:s:46:VAL:HG11	1.95	0.95
1:q:260:VAL:HG11	1:q:328:GLN:CG	1.95	0.95
1:F:122:THR:HG22	1:F:123:LYS:N	1.73	0.95
1:K:46:VAL:HG11	1:8:209:ARG:CB	1.96	0.95
1:L:260:VAL:HG11	1:L:328:GLN:CG	1.95	0.95
1:Q:243:ASN:HD22	1:Q:246:MET:HG2	1.31	0.95
1:W:228:PHE:CE2	1:W:230:PHE:CE1	2.49	0.95
1:3:133:LEU:H	1:3:213:GLN:HE21	1.15	0.95
1:c:46:VAL:HG11	1:d:209:ARG:CB	1.96	0.95
1:g:46:VAL:HG11	1:h:209:ARG:CB	1.96	0.95
1:k:46:VAL:HG11	1:l:209:ARG:CB	1.96	0.95
1:D:260:VAL:HG11	1:D:328:GLN:CG	1.95	0.95
1:H:209:ARG:CB	1:Y:46:VAL:HG11	1.96	0.95
1:O:46:VAL:HG11	1:g:209:ARG:CB	1.96	0.95
1:V:209:ARG:CB	1:X:46:VAL:HG11	1.96	0.95
1:4:133:LEU:H	1:4:213:GLN:HE21	1.15	0.95
1:f:260:VAL:HG11	1:f:328:GLN:CG	1.95	0.95
1:v:260:VAL:HG11	1:v:328:GLN:CG	1.95	0.95
1:x:260:VAL:HG11	1:x:328:GLN:CG	1.95	0.95
1:B:46:VAL:HG11	1:J:209:ARG:CB	1.96	0.95
1:K:209:ARG:CB	1:2:46:VAL:HG11	1.96	0.95
1:L:228:PHE:CE2	1:L:230:PHE:CE1	2.49	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:209:ARG:CB	1:f:46:VAL:HG11	1.96	0.95
1:T:260:VAL:HG11	1:T:328:GLN:CG	1.95	0.95
1:Z:260:VAL:HG11	1:Z:328:GLN:CG	1.95	0.95
1:a:209:ARG:CB	1:b:46:VAL:HG11	1.96	0.95
1:d:133:LEU:H	1:d:213:GLN:HE21	1.15	0.95
1:z:260:VAL:HG11	1:z:328:GLN:CG	1.95	0.95
1:G:243:ASN:HD22	1:G:246:MET:HG2	1.31	0.95
1:H:46:VAL:HG11	1:W:209:ARG:CB	1.96	0.95
1:K:122:THR:HG22	1:K:123:LYS:N	1.73	0.95
1:O:209:ARG:CB	1:h:46:VAL:HG11	1.97	0.95
1:d:46:VAL:HG11	1:e:209:ARG:CB	1.96	0.95
1:o:243:ASN:HD22	1:o:246:MET:HG2	1.31	0.95
1:x:228:PHE:CE2	1:x:230:PHE:CE1	2.49	0.95
1:H:133:LEU:H	1:H:213:GLN:HE21	1.15	0.94
1:H:260:VAL:HG11	1:H:328:GLN:CG	1.95	0.94
1:X:133:LEU:H	1:X:213:GLN:HE21	1.15	0.94
1:Z:46:VAL:HG11	1:x:209:ARG:CB	1.96	0.94
1:d:260:VAL:HG11	1:d:328:GLN:CG	1.95	0.94
1:e:228:PHE:CE2	1:e:230:PHE:CE1	2.49	0.94
1:A:260:VAL:HG11	1:A:328:GLN:CG	1.95	0.94
1:S:243:ASN:HD22	1:S:246:MET:HG2	1.31	0.94
1:T:228:PHE:CE2	1:T:230:PHE:CE1	2.49	0.94
1:v:243:ASN:HD22	1:v:246:MET:HG2	1.31	0.94
1:b:133:LEU:H	1:b:213:GLN:HE21	1.15	0.94
1:d:228:PHE:CE2	1:d:230:PHE:CE1	2.49	0.94
1:C:209:ARG:CB	1:M:46:VAL:HG11	1.96	0.94
1:i:46:VAL:HG11	1:j:209:ARG:CB	1.96	0.94
1:s:228:PHE:CE2	1:s:230:PHE:CE1	2.49	0.94
1:s:260:VAL:HG11	1:s:328:GLN:CG	1.95	0.94
1:D:209:ARG:CB	1:P:46:VAL:HG11	1.96	0.94
1:J:67:ARG:HG2	1:J:294:GLU:HG2	1.50	0.94
1:T:243:ASN:HD22	1:T:246:MET:HG2	1.31	0.94
1:V:67:ARG:HG2	1:V:294:GLU:HG2	1.50	0.94
1:7:67:ARG:HG2	1:7:294:GLU:HG2	1.50	0.94
1:6:67:ARG:HG2	1:6:294:GLU:HG2	1.50	0.94
1:a:67:ARG:HG2	1:a:294:GLU:HG2	1.50	0.94
1:q:243:ASN:HD22	1:q:246:MET:HG2	1.31	0.94
1:D:133:LEU:H	1:D:213:GLN:HE21	1.15	0.94
1:E:243:ASN:HD22	1:E:246:MET:HG2	1.31	0.94
1:O:228:PHE:CE2	1:O:230:PHE:CE1	2.49	0.94
1:e:243:ASN:HD22	1:e:246:MET:HG2	1.31	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:243:ASN:HD22	1:g:246:MET:HG2	1.31	0.94
1:l:67:ARG:HG2	1:l:294:GLU:HG2	1.50	0.94
1:G:67:ARG:HG2	1:G:294:GLU:HG2	1.50	0.94
1:H:228:PHE:CE2	1:H:230:PHE:CE1	2.49	0.94
1:M:243:ASN:HD22	1:M:246:MET:HG2	1.31	0.94
1:N:243:ASN:HD22	1:N:246:MET:HG2	1.31	0.94
1:S:228:PHE:CE2	1:S:230:PHE:CE1	2.49	0.94
1:V:243:ASN:HD22	1:V:246:MET:HG2	1.31	0.94
1:i:243:ASN:HD22	1:i:246:MET:HG2	1.31	0.94
1:q:67:ARG:HG2	1:q:294:GLU:HG2	1.50	0.94
1:w:67:ARG:HG2	1:w:294:GLU:HG2	1.50	0.94
1:2:228:PHE:CE2	1:2:230:PHE:CE1	2.49	0.94
1:A:228:PHE:CE2	1:A:230:PHE:CE1	2.49	0.94
1:J:46:VAL:HG11	1:L:209:ARG:CB	1.96	0.94
1:K:67:ARG:HG2	1:K:294:GLU:HG2	1.50	0.94
1:W:67:ARG:HG2	1:W:294:GLU:HG2	1.50	0.94
1:Z:133:LEU:H	1:Z:213:GLN:HE21	1.15	0.94
1:Z:209:ARG:CB	1:w:46:VAL:HG11	1.97	0.94
1:5:67:ARG:HG2	1:5:294:GLU:HG2	1.50	0.94
1:a:133:LEU:H	1:a:213:GLN:HE21	1.15	0.94
1:a:243:ASN:HD22	1:a:246:MET:HG2	1.31	0.94
1:g:67:ARG:HG2	1:g:294:GLU:HG2	1.50	0.94
1:l:133:LEU:H	1:l:213:GLN:HE21	1.15	0.94
1:n:243:ASN:HD22	1:n:246:MET:HG2	1.31	0.94
1:x:243:ASN:HD22	1:x:246:MET:HG2	1.31	0.94
1:y:46:VAL:HG11	1:z:209:ARG:CB	1.96	0.94
1:C:243:ASN:HD22	1:C:246:MET:HG2	1.31	0.94
1:e:67:ARG:HG2	1:e:294:GLU:HG2	1.50	0.94
1:z:133:LEU:H	1:z:213:GLN:HE21	1.15	0.94
1:1:243:ASN:HD22	1:1:246:MET:HG2	1.31	0.94
1:K:243:ASN:HD22	1:K:246:MET:HG2	1.31	0.94
1:N:133:LEU:H	1:N:213:GLN:HE21	1.15	0.94
1:R:67:ARG:HG2	1:R:294:GLU:HG2	1.50	0.94
1:W:243:ASN:HD22	1:W:246:MET:HG2	1.31	0.94
1:j:243:ASN:HD22	1:j:246:MET:HG2	1.31	0.94
1:k:67:ARG:HG2	1:k:294:GLU:HG2	1.50	0.94
1:l:46:VAL:HG11	1:m:209:ARG:CB	1.96	0.94
1:v:228:PHE:CE2	1:v:230:PHE:CE1	2.49	0.94
1:B:67:ARG:HG2	1:B:294:GLU:HG2	1.50	0.93
1:O:133:LEU:H	1:O:213:GLN:HE21	1.15	0.93
1:P:133:LEU:H	1:P:213:GLN:HE21	1.15	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:67:ARG:HG2	1:T:294:GLU:HG2	1.50	0.93
1:V:133:LEU:H	1:V:213:GLN:HE21	1.15	0.93
1:5:46:VAL:HG11	1:f:209:ARG:CB	1.97	0.93
1:p:67:ARG:HG2	1:p:294:GLU:HG2	1.50	0.93
1:u:67:ARG:HG2	1:u:294:GLU:HG2	1.50	0.93
1:F:67:ARG:HG2	1:F:294:GLU:HG2	1.50	0.93
1:J:133:LEU:H	1:J:213:GLN:HE21	1.15	0.93
1:5:228:PHE:CE2	1:5:230:PHE:CE1	2.49	0.93
1:f:133:LEU:H	1:f:213:GLN:HE21	1.15	0.93
1:x:67:ARG:HG2	1:x:294:GLU:HG2	1.50	0.93
1:D:67:ARG:HG2	1:D:294:GLU:HG2	1.50	0.93
1:m:243:ASN:HD22	1:m:246:MET:HG2	1.31	0.93
1:u:133:LEU:H	1:u:213:GLN:HE21	1.15	0.93
1:u:243:ASN:HD22	1:u:246:MET:HG2	1.31	0.93
1:1:133:LEU:H	1:1:213:GLN:HE21	1.15	0.93
1:2:133:LEU:H	1:2:213:GLN:HE21	1.15	0.93
1:D:243:ASN:HD22	1:D:246:MET:HG2	1.31	0.93
1:S:67:ARG:HG2	1:S:294:GLU:HG2	1.50	0.93
1:X:67:ARG:HG2	1:X:294:GLU:HG2	1.50	0.93
1:3:243:ASN:HD22	1:3:246:MET:HG2	1.31	0.93
1:g:133:LEU:H	1:g:213:GLN:HE21	1.15	0.93
1:q:133:LEU:H	1:q:213:GLN:HE21	1.15	0.93
1:v:67:ARG:HG2	1:v:294:GLU:HG2	1.50	0.93
1:z:243:ASN:HD22	1:z:246:MET:HG2	1.31	0.93
1:S:133:LEU:H	1:S:213:GLN:HE21	1.15	0.93
1:y:133:LEU:H	1:y:213:GLN:HE21	1.15	0.93
1:z:67:ARG:HG2	1:z:294:GLU:HG2	1.50	0.93
1:K:133:LEU:H	1:K:213:GLN:HE21	1.15	0.93
1:L:243:ASN:HD22	1:L:246:MET:HG2	1.31	0.93
1:R:243:ASN:HD22	1:R:246:MET:HG2	1.31	0.93
1:b:67:ARG:HG2	1:b:294:GLU:HG2	1.50	0.93
1:c:243:ASN:HD22	1:c:246:MET:HG2	1.31	0.93
1:v:133:LEU:H	1:v:213:GLN:HE21	1.15	0.93
1:w:228:PHE:CE2	1:w:230:PHE:CE1	2.49	0.93
1:U:133:LEU:H	1:U:213:GLN:HE21	1.15	0.93
1:7:243:ASN:HD22	1:7:246:MET:HG2	1.31	0.93
1:q:228:PHE:CE2	1:q:230:PHE:CE1	2.49	0.93
1:G:133:LEU:H	1:G:213:GLN:HE21	1.15	0.93
1:G:228:PHE:CE2	1:G:230:PHE:CE1	2.49	0.93
1:R:133:LEU:H	1:R:213:GLN:HE21	1.15	0.93
1:8:243:ASN:HD22	1:8:246:MET:HG2	1.31	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:67:ARG:HG2	1:Q:294:GLU:HG2	1.50	0.93
1:Y:243:ASN:HD22	1:Y:246:MET:HG2	1.31	0.93
1:Z:243:ASN:HD22	1:Z:246:MET:HG2	1.31	0.93
1:4:67:ARG:HG2	1:4:294:GLU:HG2	1.50	0.93
1:6:243:ASN:HD22	1:6:246:MET:HG2	1.31	0.93
1:4:243:ASN:HD22	1:4:246:MET:HG2	1.31	0.93
1:t:133:LEU:H	1:t:213:GLN:HE21	1.15	0.93
1:A:243:ASN:HD22	1:A:246:MET:HG2	1.31	0.92
1:I:67:ARG:HG2	1:I:294:GLU:HG2	1.50	0.92
1:N:67:ARG:HG2	1:N:294:GLU:HG2	1.50	0.92
1:3:67:ARG:HG2	1:3:294:GLU:HG2	1.50	0.92
1:h:243:ASN:HD22	1:h:246:MET:HG2	1.31	0.92
1:D:122:THR:HG22	1:D:123:LYS:N	1.73	0.92
1:7:133:LEU:H	1:7:213:GLN:HE21	1.15	0.92
1:o:67:ARG:HG2	1:o:294:GLU:HG2	1.50	0.92
1:6:133:LEU:H	1:6:213:GLN:HE21	1.15	0.92
1:f:243:ASN:HD22	1:f:246:MET:HG2	1.31	0.92
1:s:243:ASN:HD22	1:s:246:MET:HG2	1.31	0.92
1:W:133:LEU:H	1:W:213:GLN:HE21	1.15	0.92
1:1:67:ARG:HG2	1:1:294:GLU:HG2	1.50	0.92
1:E:67:ARG:HG2	1:E:294:GLU:HG2	1.50	0.92
1:5:133:LEU:H	1:5:213:GLN:HE21	1.15	0.92
1:r:67:ARG:HG2	1:r:294:GLU:HG2	1.50	0.92
1:r:133:LEU:H	1:r:213:GLN:HE21	1.15	0.92
1:w:133:LEU:H	1:w:213:GLN:HE21	1.15	0.92
1:y:67:ARG:HG2	1:y:294:GLU:HG2	1.50	0.92
1:P:67:ARG:HG2	1:P:294:GLU:HG2	1.50	0.92
1:Y:228:PHE:CE2	1:Y:230:PHE:CE1	2.49	0.92
1:c:228:PHE:CE2	1:c:230:PHE:CE1	2.49	0.92
1:n:67:ARG:HG2	1:n:294:GLU:HG2	1.50	0.92
1:s:67:ARG:HG2	1:s:294:GLU:HG2	1.50	0.92
1:t:243:ASN:HD22	1:t:246:MET:HG2	1.31	0.92
1:A:67:ARG:HG2	1:A:294:GLU:HG2	1.50	0.92
1:i:133:LEU:H	1:i:213:GLN:HE21	1.15	0.92
1:8:67:ARG:HG2	1:8:294:GLU:HG2	1.50	0.92
1:e:133:LEU:H	1:e:213:GLN:HE21	1.15	0.92
1:h:67:ARG:HG2	1:h:294:GLU:HG2	1.50	0.92
1:Z:67:ARG:HG2	1:Z:294:GLU:HG2	1.50	0.92
1:f:67:ARG:HG2	1:f:294:GLU:HG2	1.50	0.92
1:L:67:ARG:HG2	1:L:294:GLU:HG2	1.50	0.91
1:M:133:LEU:H	1:M:213:GLN:HE21	1.15	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:243:ASN:HD22	1:U:246:MET:HG2	1.31	0.91
1:j:133:LEU:H	1:j:213:GLN:HE21	1.15	0.91
1:m:67:ARG:HG2	1:m:294:GLU:HG2	1.50	0.91
1:C:67:ARG:HG2	1:C:294:GLU:HG2	1.50	0.91
1:I:133:LEU:H	1:I:213:GLN:HE21	1.15	0.91
1:A:133:LEU:H	1:A:213:GLN:HE21	1.15	0.91
1:C:133:LEU:H	1:C:213:GLN:HE21	1.15	0.91
1:M:67:ARG:HG2	1:M:294:GLU:HG2	1.50	0.91
1:j:67:ARG:HG2	1:j:294:GLU:HG2	1.50	0.91
1:i:67:ARG:HG2	1:i:294:GLU:HG2	1.50	0.91
1:s:133:LEU:H	1:s:213:GLN:HE21	1.15	0.91
1:u:122:THR:HG22	1:u:123:LYS:N	1.73	0.91
1:8:228:PHE:CE2	1:8:230:PHE:CE1	2.49	0.91
1:h:270:GLY:HA2	1:h:346:PHE:CD1	2.06	0.91
1:F:270:GLY:HA2	1:F:346:PHE:CD1	2.06	0.91
1:Q:270:GLY:HA2	1:Q:346:PHE:CD1	2.06	0.91
1:R:122:THR:HG22	1:R:123:LYS:N	1.73	0.91
1:Z:270:GLY:HA2	1:Z:346:PHE:CD1	2.06	0.91
1:8:270:GLY:HA2	1:8:346:PHE:CD1	2.06	0.91
1:a:270:GLY:HA2	1:a:346:PHE:CD1	2.06	0.91
1:B:270:GLY:HA2	1:B:346:PHE:CD1	2.06	0.91
1:X:270:GLY:HA2	1:X:346:PHE:CD1	2.06	0.91
1:Y:67:ARG:HG2	1:Y:294:GLU:HG2	1.50	0.91
1:8:133:LEU:H	1:8:213:GLN:HE21	1.15	0.91
1:b:270:GLY:HA2	1:b:346:PHE:CD1	2.06	0.91
1:f:270:GLY:HA2	1:f:346:PHE:CD1	2.06	0.91
1:o:270:GLY:HA2	1:o:346:PHE:CD1	2.06	0.91
1:p:270:GLY:HA2	1:p:346:PHE:CD1	2.06	0.91
1:V:270:GLY:HA2	1:V:346:PHE:CD1	2.06	0.91
1:4:270:GLY:HA2	1:4:346:PHE:CD1	2.06	0.91
1:k:270:GLY:HA2	1:k:346:PHE:CD1	2.06	0.91
1:l:270:GLY:HA2	1:l:346:PHE:CD1	2.06	0.91
1:J:270:GLY:HA2	1:J:346:PHE:CD1	2.06	0.90
1:3:270:GLY:HA2	1:3:346:PHE:CD1	2.06	0.90
1:d:67:ARG:HG2	1:d:294:GLU:HG2	1.50	0.90
1:h:133:LEU:H	1:h:213:GLN:HE21	1.15	0.90
1:6:270:GLY:HA2	1:6:346:PHE:CD1	2.06	0.90
1:c:67:ARG:HG2	1:c:294:GLU:HG2	1.50	0.90
1:g:270:GLY:HA2	1:g:346:PHE:CD1	2.06	0.90
1:2:270:GLY:HA2	1:2:346:PHE:CD1	2.06	0.90
1:K:270:GLY:HA2	1:K:346:PHE:CD1	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:270:GLY:HA2	1:7:346:PHE:CD1	2.06	0.90
1:i:270:GLY:HA2	1:i:346:PHE:CD1	2.06	0.90
1:m:133:LEU:H	1:m:213:GLN:HE21	1.15	0.90
1:q:270:GLY:HA2	1:q:346:PHE:CD1	2.06	0.90
1:H:67:ARG:HG2	1:H:294:GLU:HG2	1.50	0.90
1:O:270:GLY:HA2	1:O:346:PHE:CD1	2.06	0.90
1:P:270:GLY:HA2	1:P:346:PHE:CD1	2.06	0.90
1:v:270:GLY:HA2	1:v:346:PHE:CD1	2.06	0.90
1:A:270:GLY:HA2	1:A:346:PHE:CD1	2.06	0.90
1:G:270:GLY:HA2	1:G:346:PHE:CD1	2.06	0.90
1:M:270:GLY:HA2	1:M:346:PHE:CD1	2.06	0.90
1:Y:270:GLY:HA2	1:Y:346:PHE:CD1	2.06	0.90
1:n:270:GLY:HA2	1:n:346:PHE:CD1	2.06	0.90
1:s:270:GLY:HA2	1:s:346:PHE:CD1	2.06	0.90
1:y:270:GLY:HA2	1:y:346:PHE:CD1	2.06	0.90
1:S:270:GLY:HA2	1:S:346:PHE:CD1	2.06	0.90
1:c:270:GLY:HA2	1:c:346:PHE:CD1	2.06	0.90
1:m:270:GLY:HA2	1:m:346:PHE:CD1	2.06	0.90
1:E:270:GLY:HA2	1:E:346:PHE:CD1	2.06	0.90
1:L:270:GLY:HA2	1:L:346:PHE:CD1	2.06	0.90
1:U:67:ARG:HG2	1:U:294:GLU:HG2	1.50	0.90
1:j:270:GLY:HA2	1:j:346:PHE:CD1	2.06	0.90
1:t:67:ARG:HG2	1:t:294:GLU:HG2	1.50	0.90
1:2:67:ARG:HG2	1:2:294:GLU:HG2	1.50	0.90
1:C:270:GLY:HA2	1:C:346:PHE:CD1	2.06	0.90
1:I:270:GLY:HA2	1:I:346:PHE:CD1	2.06	0.90
1:L:133:LEU:H	1:L:213:GLN:HE21	1.15	0.90
1:O:67:ARG:HG2	1:O:294:GLU:HG2	1.50	0.90
1:r:270:GLY:HA2	1:r:346:PHE:CD1	2.06	0.89
1:D:270:GLY:HA2	1:D:346:PHE:CD1	2.06	0.89
1:N:270:GLY:HA2	1:N:346:PHE:CD1	2.06	0.89
1:5:270:GLY:HA2	1:5:346:PHE:CD1	2.06	0.89
1:w:270:GLY:HA2	1:w:346:PHE:CD1	2.06	0.89
1:z:270:GLY:HA2	1:z:346:PHE:CD1	2.06	0.89
1:H:270:GLY:HA2	1:H:346:PHE:CD1	2.06	0.89
1:1:270:GLY:HA2	1:1:346:PHE:CD1	2.06	0.89
1:e:270:GLY:HA2	1:e:346:PHE:CD1	2.06	0.89
1:x:270:GLY:HA2	1:x:346:PHE:CD1	2.06	0.89
1:T:270:GLY:HA2	1:T:346:PHE:CD1	2.06	0.89
1:d:270:GLY:HA2	1:d:346:PHE:CD1	2.06	0.89
1:k:133:LEU:H	1:k:213:GLN:HE21	1.15	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:270:GLY:HA2	1:W:346:PHE:CD1	2.06	0.89
1:B:133:LEU:H	1:B:213:GLN:HE21	1.15	0.89
1:U:270:GLY:HA2	1:U:346:PHE:CD1	2.06	0.89
1:Q:133:LEU:H	1:Q:213:GLN:HE21	1.15	0.89
1:F:133:LEU:H	1:F:213:GLN:HE21	1.15	0.88
1:t:270:GLY:HA2	1:t:346:PHE:CD1	2.06	0.88
1:u:270:GLY:HA2	1:u:346:PHE:CD1	2.06	0.88
1:x:133:LEU:H	1:x:213:GLN:HE21	1.15	0.88
1:R:270:GLY:HA2	1:R:346:PHE:CD1	2.06	0.88
1:p:133:LEU:H	1:p:213:GLN:HE21	1.15	0.88
1:T:133:LEU:H	1:T:213:GLN:HE21	1.15	0.88
1:o:133:LEU:H	1:o:213:GLN:HE21	1.15	0.88
1:c:133:LEU:H	1:c:213:GLN:HE21	1.15	0.87
1:Y:133:LEU:H	1:Y:213:GLN:HE21	1.15	0.87
1:E:133:LEU:H	1:E:213:GLN:HE21	1.15	0.87
1:n:133:LEU:H	1:n:213:GLN:HE21	1.15	0.87
1:Y:230:PHE:HD2	1:Y:330:TYR:CZ	1.95	0.85
1:c:230:PHE:HD2	1:c:330:TYR:CZ	1.95	0.85
1:2:230:PHE:HD2	1:2:330:TYR:CZ	1.94	0.85
1:H:230:PHE:HD2	1:H:330:TYR:CZ	1.95	0.85
1:O:230:PHE:HD2	1:O:330:TYR:CZ	1.94	0.85
1:4:230:PHE:HD2	1:4:330:TYR:CZ	1.95	0.85
1:3:230:PHE:HD2	1:3:330:TYR:CZ	1.95	0.85
1:d:230:PHE:HD2	1:d:330:TYR:CZ	1.95	0.85
1:X:230:PHE:HD2	1:X:330:TYR:CZ	1.95	0.85
1:f:230:PHE:HD2	1:f:330:TYR:CZ	1.94	0.85
1:q:230:PHE:HD2	1:q:330:TYR:CZ	1.94	0.85
1:N:230:PHE:HD2	1:N:330:TYR:CZ	1.95	0.85
1:R:230:PHE:HD2	1:R:330:TYR:CZ	1.95	0.85
1:Z:230:PHE:HD2	1:Z:330:TYR:CZ	1.94	0.85
1:b:230:PHE:HD2	1:b:330:TYR:CZ	1.94	0.85
1:r:230:PHE:HD2	1:r:330:TYR:CZ	1.95	0.85
1:t:230:PHE:HD2	1:t:330:TYR:CZ	1.94	0.85
1:x:230:PHE:HD2	1:x:330:TYR:CZ	1.95	0.85
1:1:230:PHE:HD2	1:1:330:TYR:CZ	1.95	0.85
1:G:230:PHE:HD2	1:G:330:TYR:CZ	1.95	0.85
1:T:230:PHE:HD2	1:T:330:TYR:CZ	1.95	0.85
1:U:230:PHE:HD2	1:U:330:TYR:CZ	1.95	0.85
1:I:230:PHE:HD2	1:I:330:TYR:CZ	1.95	0.85
1:8:230:PHE:HD2	1:8:330:TYR:CZ	1.94	0.85
1:l:230:PHE:HD2	1:l:330:TYR:CZ	1.94	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:230:PHE:HD2	1:u:330:TYR:CZ	1.95	0.85
1:g:230:PHE:HD2	1:g:330:TYR:CZ	1.95	0.85
1:j:230:PHE:HD2	1:j:330:TYR:CZ	1.95	0.85
1:C:230:PHE:HD2	1:C:330:TYR:CZ	1.95	0.85
1:J:230:PHE:HD2	1:J:330:TYR:CZ	1.94	0.85
1:K:230:PHE:HD2	1:K:330:TYR:CZ	1.95	0.85
1:V:230:PHE:HD2	1:V:330:TYR:CZ	1.95	0.85
1:k:230:PHE:HD2	1:k:330:TYR:CZ	1.95	0.85
1:L:67:ARG:HH12	1:7:208:ASN:HD22	1.25	0.84
1:h:230:PHE:HD2	1:h:330:TYR:CZ	1.95	0.84
1:i:230:PHE:HD2	1:i:330:TYR:CZ	1.94	0.84
1:B:230:PHE:HD2	1:B:330:TYR:CZ	1.95	0.84
1:a:230:PHE:HD2	1:a:330:TYR:CZ	1.95	0.84
1:m:230:PHE:HD2	1:m:330:TYR:CZ	1.95	0.84
1:o:230:PHE:HD2	1:o:330:TYR:CZ	1.95	0.84
1:s:230:PHE:HD2	1:s:330:TYR:CZ	1.95	0.84
1:7:230:PHE:HD2	1:7:330:TYR:CZ	1.95	0.84
1:6:230:PHE:HD2	1:6:330:TYR:CZ	1.95	0.84
1:b:67:ARG:HH12	1:c:208:ASN:HD22	1.26	0.84
1:A:230:PHE:HD2	1:A:330:TYR:CZ	1.95	0.84
1:M:230:PHE:HD2	1:M:330:TYR:CZ	1.95	0.84
1:Q:230:PHE:HD2	1:Q:330:TYR:CZ	1.95	0.84
1:L:230:PHE:HD2	1:L:330:TYR:CZ	1.95	0.84
1:X:67:ARG:HH12	1:Y:208:ASN:HD22	1.26	0.84
1:6:208:ASN:HD22	1:m:67:ARG:HH12	1.26	0.84
1:v:230:PHE:HD2	1:v:330:TYR:CZ	1.94	0.84
1:y:230:PHE:HD2	1:y:330:TYR:CZ	1.95	0.84
1:P:230:PHE:HD2	1:P:330:TYR:CZ	1.95	0.84
1:S:230:PHE:HD2	1:S:330:TYR:CZ	1.94	0.84
1:D:230:PHE:HD2	1:D:330:TYR:CZ	1.94	0.84
1:F:208:ASN:HD22	1:R:67:ARG:HH12	1.25	0.84
1:e:230:PHE:HD2	1:e:330:TYR:CZ	1.95	0.84
1:E:230:PHE:HD2	1:E:330:TYR:CZ	1.95	0.84
1:V:208:ASN:HD22	1:W:67:ARG:HH12	1.26	0.84
1:W:230:PHE:HD2	1:W:330:TYR:CZ	1.94	0.84
1:5:230:PHE:HD2	1:5:330:TYR:CZ	1.95	0.84
1:a:208:ASN:HD22	1:e:67:ARG:HH12	1.26	0.84
1:n:230:PHE:HD2	1:n:330:TYR:CZ	1.95	0.84
1:w:230:PHE:HD2	1:w:330:TYR:CZ	1.94	0.84
1:z:230:PHE:HD2	1:z:330:TYR:CZ	1.95	0.84
1:l:208:ASN:HD22	1:r:67:ARG:HH12	1.26	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:67:ARG:HH12	1:v:208:ASN:HD22	1.26	0.83
1:Q:67:ARG:HH12	1:S:208:ASN:HD22	1.26	0.83
1:I:67:ARG:HH12	1:J:208:ASN:HD22	1.26	0.83
1:F:230:PHE:HD2	1:F:330:TYR:CZ	1.95	0.83
1:p:208:ASN:HD22	1:u:67:ARG:HH12	1.26	0.83
1:p:230:PHE:HD2	1:p:330:TYR:CZ	1.95	0.83
1:G:239:VAL:CG1	1:G:268:MET:HE1	2.09	0.83
1:P:239:VAL:CG1	1:P:268:MET:HE1	2.09	0.83
1:Q:239:VAL:CG1	1:Q:268:MET:HE1	2.09	0.83
1:j:208:ASN:HD22	1:z:67:ARG:HH12	1.26	0.83
1:m:239:VAL:CG1	1:m:268:MET:HE1	2.09	0.83
1:o:239:VAL:CG1	1:o:268:MET:HE1	2.09	0.83
1:r:239:VAL:CG1	1:r:268:MET:HE1	2.09	0.83
1:y:239:VAL:CG1	1:y:268:MET:HE1	2.09	0.83
1:A:208:ASN:HD22	1:B:67:ARG:HH12	1.25	0.83
1:C:239:VAL:CG1	1:C:268:MET:HE1	2.09	0.83
1:I:239:VAL:CG1	1:I:268:MET:HE1	2.09	0.83
1:T:239:VAL:CG1	1:T:268:MET:HE1	2.09	0.83
1:g:67:ARG:HH12	1:m:208:ASN:HD22	1.26	0.83
1:j:239:VAL:CG1	1:j:268:MET:HE1	2.09	0.83
1:q:239:VAL:CG1	1:q:268:MET:HE1	2.09	0.83
1:x:239:VAL:CG1	1:x:268:MET:HE1	2.09	0.83
1:A:67:ARG:HH12	1:E:208:ASN:HD22	1.25	0.83
1:C:208:ASN:HD22	1:D:67:ARG:HH12	1.26	0.83
1:K:67:ARG:HH12	1:L:208:ASN:HD22	1.26	0.83
1:L:239:VAL:CG1	1:L:268:MET:HE1	2.09	0.83
1:S:239:VAL:CG1	1:S:268:MET:HE1	2.09	0.83
1:v:239:VAL:CG1	1:v:268:MET:HE1	2.09	0.83
1:H:208:ASN:HD22	1:Z:67:ARG:HH12	1.26	0.82
1:4:239:VAL:CG1	1:4:268:MET:HE1	2.09	0.82
1:l:239:VAL:CG1	1:l:268:MET:HE1	2.09	0.82
1:B:208:ASN:HD22	1:C:67:ARG:HH12	1.26	0.82
1:J:239:VAL:CG1	1:J:268:MET:HE1	2.09	0.82
1:M:239:VAL:CG1	1:M:268:MET:HE1	2.09	0.82
1:Y:239:VAL:CG1	1:Y:268:MET:HE1	2.09	0.82
1:5:239:VAL:CG1	1:5:268:MET:HE1	2.09	0.82
1:3:239:VAL:CG1	1:3:268:MET:HE1	2.09	0.82
1:c:239:VAL:CG1	1:c:268:MET:HE1	2.09	0.82
1:k:67:ARG:HH12	1:s:208:ASN:HD22	1.25	0.82
1:O:239:VAL:CG1	1:O:268:MET:HE1	2.09	0.82
1:d:208:ASN:HD22	1:f:67:ARG:HH12	1.26	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:239:VAL:CG1	1:i:268:MET:HE1	2.09	0.82
1:M:67:ARG:HH12	1:N:208:ASN:HD22	1.26	0.82
1:f:239:VAL:CG1	1:f:268:MET:HE1	2.09	0.82
1:i:67:ARG:HH12	1:1:208:ASN:HD22	1.26	0.82
1:j:67:ARG:HH12	1:k:208:ASN:HD22	1.26	0.82
1:w:239:VAL:CG1	1:w:268:MET:HE1	2.09	0.82
1:S:67:ARG:HH12	1:5:208:ASN:HD22	1.25	0.82
1:Z:239:VAL:CG1	1:Z:268:MET:HE1	2.09	0.82
1:4:67:ARG:HH12	1:b:208:ASN:HD22	1.26	0.82
1:2:239:VAL:CG1	1:2:268:MET:HE1	2.09	0.82
1:X:239:VAL:CG1	1:X:268:MET:HE1	2.09	0.82
1:b:239:VAL:CG1	1:b:268:MET:HE1	2.09	0.82
1:n:208:ASN:HD22	1:s:67:ARG:HH12	1.26	0.82
1:v:67:ARG:HH12	1:w:208:ASN:HD22	1.26	0.82
1:B:239:VAL:CG1	1:B:268:MET:HE1	2.09	0.82
1:P:67:ARG:HH12	1:Q:208:ASN:HD22	1.26	0.82
1:3:208:ASN:HD22	1:t:67:ARG:HH12	1.26	0.82
1:t:239:VAL:CG1	1:t:268:MET:HE1	2.09	0.82
1:z:239:VAL:CG1	1:z:268:MET:HE1	2.09	0.82
1:D:239:VAL:CG1	1:D:268:MET:HE1	2.09	0.82
1:N:239:VAL:CG1	1:N:268:MET:HE1	2.09	0.82
1:U:239:VAL:CG1	1:U:268:MET:HE1	2.09	0.82
1:k:239:VAL:CG1	1:k:268:MET:HE1	2.09	0.82
1:U:67:ARG:HH12	1:4:208:ASN:HD22	1.26	0.81
1:V:239:VAL:CG1	1:V:268:MET:HE1	2.09	0.81
1:X:208:ASN:HD22	1:3:67:ARG:HH12	1.26	0.81
1:1:239:VAL:CG1	1:1:268:MET:HE1	2.09	0.81
1:o:208:ASN:HD22	1:y:67:ARG:HH12	1.26	0.81
1:u:239:VAL:CG1	1:u:268:MET:HE1	2.09	0.81
1:C:53:ILE:HG13	1:7:206:ASN:HD21	1.45	0.81
1:K:239:VAL:CG1	1:K:268:MET:HE1	2.09	0.81
1:R:239:VAL:CG1	1:R:268:MET:HE1	2.09	0.81
1:U:122:THR:CG2	1:U:123:LYS:H	1.93	0.81
1:W:239:VAL:CG1	1:W:268:MET:HE1	2.09	0.81
1:8:239:VAL:CG1	1:8:268:MET:HE1	2.09	0.81
1:a:239:VAL:CG1	1:a:268:MET:HE1	2.09	0.81
1:h:208:ASN:HD22	1:l:67:ARG:HH12	1.26	0.81
1:h:239:VAL:CG1	1:h:268:MET:HE1	2.09	0.81
1:A:239:VAL:CG1	1:A:268:MET:HE1	2.09	0.81
1:D:208:ASN:HD22	1:E:67:ARG:HH12	1.26	0.81
1:F:239:VAL:CG1	1:F:268:MET:HE1	2.09	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:67:ARG:HH12	1:8:208:ASN:HD22	1.26	0.81
1:Y:67:ARG:HH12	1:x:208:ASN:HD22	1.26	0.81
1:7:239:VAL:CG1	1:7:268:MET:HE1	2.09	0.81
1:6:239:VAL:CG1	1:6:268:MET:HE1	2.09	0.81
1:e:239:VAL:CG1	1:e:268:MET:HE1	2.09	0.81
1:d:239:VAL:CG1	1:d:268:MET:HE1	2.09	0.81
1:g:239:VAL:CG1	1:g:268:MET:HE1	2.09	0.81
1:p:239:VAL:CG1	1:p:268:MET:HE1	2.09	0.81
1:s:239:VAL:CG1	1:s:268:MET:HE1	2.09	0.81
1:H:239:VAL:CG1	1:H:268:MET:HE1	2.09	0.81
1:n:67:ARG:HH12	1:z:208:ASN:HD22	1.26	0.81
1:p:67:ARG:HH12	1:q:208:ASN:HD22	1.25	0.81
1:T:208:ASN:HD22	1:c:67:ARG:HH12	1.26	0.81
1:n:239:VAL:CG1	1:n:268:MET:HE1	2.09	0.81
1:E:239:VAL:CG1	1:E:268:MET:HE1	2.09	0.81
1:O:67:ARG:HH12	1:P:208:ASN:HD22	1.26	0.80
1:d:67:ARG:HH12	1:r:208:ASN:HD22	1.26	0.80
1:T:206:ASN:HD21	1:f:53:ILE:HG13	1.46	0.80
1:t:208:ASN:HD22	1:x:67:ARG:HH12	1.26	0.80
1:D:53:ILE:HG13	1:N:206:ASN:HD21	1.47	0.80
1:F:67:ARG:HH12	1:G:208:ASN:HD22	1.26	0.80
1:H:53:ILE:HG13	1:W:206:ASN:HD21	1.47	0.80
1:O:208:ASN:HD22	1:5:67:ARG:HH12	1.26	0.80
1:T:67:ARG:HH12	1:U:208:ASN:HD22	1.26	0.80
1:d:53:ILE:HG13	1:e:206:ASN:HD21	1.47	0.80
1:w:67:ARG:HH12	1:2:208:ASN:HD22	1.26	0.80
1:z:53:ILE:HG13	1:1:206:ASN:HD21	1.47	0.80
1:H:67:ARG:HH12	1:I:208:ASN:HD22	1.26	0.80
1:O:206:ASN:HD21	1:h:53:ILE:HG13	1.47	0.80
1:Z:53:ILE:HG13	1:x:206:ASN:HD21	1.47	0.80
1:8:53:ILE:HG13	1:2:206:ASN:HD21	1.47	0.80
1:y:208:ASN:HD22	1:2:67:ARG:HH12	1.26	0.80
1:f:208:ASN:HD22	1:h:67:ARG:HH12	1.26	0.80
1:w:206:ASN:HD21	1:x:53:ILE:HG13	1.46	0.80
1:G:67:ARG:HH12	1:W:208:ASN:HD22	1.26	0.80
1:T:53:ILE:HG13	1:5:206:ASN:HD21	1.46	0.80
1:H:206:ASN:HD21	1:Y:53:ILE:HG13	1.47	0.80
1:J:53:ILE:HG13	1:L:206:ASN:HD21	1.47	0.80
1:Z:208:ASN:HD22	1:8:67:ARG:HH12	1.26	0.80
1:7:67:ARG:HH12	1:i:208:ASN:HD22	1.26	0.80
1:i:53:ILE:HG13	1:j:206:ASN:HD21	1.47	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:122:THR:CG2	1:J:123:LYS:H	1.93	0.80
1:l:122:THR:CG2	1:l:123:LYS:H	1.93	0.80
1:B:53:ILE:HG13	1:J:206:ASN:HD21	1.47	0.80
1:C:206:ASN:HD21	1:M:53:ILE:HG13	1.47	0.80
1:M:206:ASN:HD21	1:7:53:ILE:HG13	1.46	0.80
1:R:208:ASN:HD22	1:V:67:ARG:HH12	1.26	0.80
1:W:53:ILE:HG13	1:Y:206:ASN:HD21	1.47	0.80
1:Z:206:ASN:HD21	1:w:53:ILE:HG13	1.47	0.80
1:c:53:ILE:HG13	1:d:206:ASN:HD21	1.47	0.80
1:k:53:ILE:HG13	1:l:206:ASN:HD21	1.47	0.80
1:w:230:PHE:CD2	1:w:330:TYR:CZ	2.70	0.80
1:M:243:ASN:ND2	1:M:246:MET:HG2	1.98	0.79
1:S:53:ILE:HG13	1:U:206:ASN:HD21	1.47	0.79
1:V:230:PHE:CD2	1:V:330:TYR:CZ	2.71	0.79
1:5:230:PHE:CD2	1:5:330:TYR:CZ	2.71	0.79
1:a:67:ARG:HH12	1:u:208:ASN:HD22	1.26	0.79
1:a:230:PHE:CD2	1:a:330:TYR:CZ	2.71	0.79
1:c:206:ASN:HD21	1:e:53:ILE:HG13	1.47	0.79
1:e:208:ASN:HD22	1:q:67:ARG:HH12	1.26	0.79
1:i:243:ASN:ND2	1:i:246:MET:HG2	1.98	0.79
1:j:243:ASN:ND2	1:j:246:MET:HG2	1.98	0.79
1:C:243:ASN:ND2	1:C:246:MET:HG2	1.98	0.79
1:M:208:ASN:HD22	1:6:67:ARG:HH12	1.26	0.79
1:O:230:PHE:CD2	1:O:330:TYR:CZ	2.71	0.79
1:6:53:ILE:HG13	1:i:206:ASN:HD21	1.47	0.79
1:k:230:PHE:CD2	1:k:330:TYR:CZ	2.71	0.79
1:l:53:ILE:HG13	1:m:206:ASN:HD21	1.47	0.79
1:r:53:ILE:HG13	1:s:206:ASN:HD21	1.47	0.79
1:r:243:ASN:ND2	1:r:246:MET:HG2	1.97	0.79
1:u:243:ASN:ND2	1:u:246:MET:HG2	1.97	0.79
1:x:230:PHE:CD2	1:x:330:TYR:CZ	2.70	0.79
1:2:230:PHE:CD2	1:2:330:TYR:CZ	2.71	0.79
1:B:230:PHE:CD2	1:B:330:TYR:CZ	2.71	0.79
1:F:243:ASN:ND2	1:F:246:MET:HG2	1.98	0.79
1:R:243:ASN:ND2	1:R:246:MET:HG2	1.97	0.79
1:5:53:ILE:HG13	1:f:206:ASN:HD21	1.47	0.79
1:p:243:ASN:ND2	1:p:246:MET:HG2	1.98	0.79
1:t:206:ASN:HD21	1:v:53:ILE:HG13	1.47	0.79
1:D:243:ASN:ND2	1:D:246:MET:HG2	1.98	0.79
1:I:243:ASN:ND2	1:I:246:MET:HG2	1.98	0.79
1:K:230:PHE:CD2	1:K:330:TYR:CZ	2.71	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:206:ASN:HD21	1:U:53:ILE:HG13	1.47	0.79
1:T:230:PHE:CD2	1:T:330:TYR:CZ	2.71	0.79
1:6:206:ASN:HD21	1:j:53:ILE:HG13	1.47	0.79
1:4:230:PHE:CD2	1:4:330:TYR:CZ	2.71	0.79
1:3:230:PHE:CD2	1:3:330:TYR:CZ	2.70	0.79
1:d:230:PHE:CD2	1:d:330:TYR:CZ	2.71	0.79
1:g:230:PHE:CD2	1:g:330:TYR:CZ	2.71	0.79
1:t:53:ILE:HG13	1:u:206:ASN:HD21	1.47	0.79
1:z:243:ASN:ND2	1:z:246:MET:HG2	1.98	0.79
1:F:206:ASN:HD21	1:Q:53:ILE:HG13	1.47	0.79
1:G:53:ILE:HG13	1:I:206:ASN:HD21	1.47	0.79
1:G:230:PHE:CD2	1:G:330:TYR:CZ	2.71	0.79
1:L:243:ASN:ND2	1:L:246:MET:HG2	1.98	0.79
1:P:230:PHE:CD2	1:P:330:TYR:CZ	2.71	0.79
1:Q:230:PHE:CD2	1:Q:330:TYR:CZ	2.71	0.79
1:b:230:PHE:CD2	1:b:330:TYR:CZ	2.71	0.79
1:o:230:PHE:CD2	1:o:330:TYR:CZ	2.71	0.79
1:y:230:PHE:CD2	1:y:330:TYR:CZ	2.71	0.79
1:A:243:ASN:ND2	1:A:246:MET:HG2	1.98	0.79
1:I:230:PHE:CD2	1:I:330:TYR:CZ	2.71	0.79
1:X:230:PHE:CD2	1:X:330:TYR:CZ	2.71	0.79
1:7:230:PHE:CD2	1:7:330:TYR:CZ	2.70	0.79
1:m:243:ASN:ND2	1:m:246:MET:HG2	1.98	0.79
1:q:53:ILE:HG13	1:r:206:ASN:HD21	1.47	0.79
1:q:206:ASN:HD21	1:s:53:ILE:HG13	1.47	0.79
1:q:230:PHE:CD2	1:q:330:TYR:CZ	2.70	0.79
1:s:243:ASN:ND2	1:s:246:MET:HG2	1.98	0.79
1:v:230:PHE:CD2	1:v:330:TYR:CZ	2.71	0.79
1:A:53:ILE:HG13	1:G:206:ASN:HD21	1.47	0.79
1:K:206:ASN:HD21	1:2:53:ILE:HG13	1.46	0.79
1:L:230:PHE:CD2	1:L:330:TYR:CZ	2.71	0.79
1:P:243:ASN:ND2	1:P:246:MET:HG2	1.98	0.79
1:Q:243:ASN:ND2	1:Q:246:MET:HG2	1.98	0.79
1:S:230:PHE:CD2	1:S:330:TYR:CZ	2.71	0.79
1:Y:230:PHE:CD2	1:Y:330:TYR:CZ	2.71	0.79
1:c:230:PHE:CD2	1:c:330:TYR:CZ	2.71	0.79
1:k:243:ASN:ND2	1:k:246:MET:HG2	1.97	0.79
1:q:243:ASN:ND2	1:q:246:MET:HG2	1.98	0.79
1:r:230:PHE:CD2	1:r:330:TYR:CZ	2.71	0.79
1:y:53:ILE:HG13	1:z:206:ASN:HD21	1.47	0.79
1:D:206:ASN:HD21	1:P:53:ILE:HG13	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:243:ASN:ND2	1:G:246:MET:HG2	1.98	0.79
1:K:208:ASN:HD22	1:1:67:ARG:HH12	1.26	0.79
1:6:230:PHE:CD2	1:6:330:TYR:CZ	2.71	0.79
1:m:230:PHE:CD2	1:m:330:TYR:CZ	2.71	0.79
1:o:243:ASN:ND2	1:o:246:MET:HG2	1.98	0.79
1:y:243:ASN:ND2	1:y:246:MET:HG2	1.98	0.79
1:1:230:PHE:CD2	1:1:330:TYR:CZ	2.71	0.79
1:B:243:ASN:ND2	1:B:246:MET:HG2	1.97	0.79
1:N:230:PHE:CD2	1:N:330:TYR:CZ	2.71	0.79
1:O:53:ILE:HG13	1:g:206:ASN:HD21	1.46	0.79
1:W:243:ASN:ND2	1:W:246:MET:HG2	1.98	0.79
1:3:206:ASN:HD21	1:a:53:ILE:HG13	1.47	0.79
1:w:243:ASN:ND2	1:w:246:MET:HG2	1.98	0.79
1:1:243:ASN:ND2	1:1:246:MET:HG2	1.98	0.79
1:V:53:ILE:HG13	1:4:206:ASN:HD21	1.47	0.79
1:V:206:ASN:HD21	1:X:53:ILE:HG13	1.47	0.79
1:W:230:PHE:CD2	1:W:330:TYR:CZ	2.70	0.79
1:5:243:ASN:ND2	1:5:246:MET:HG2	1.98	0.79
1:A:206:ASN:HD21	1:I:53:ILE:HG13	1.48	0.78
1:N:53:ILE:HG13	1:P:206:ASN:HD21	1.47	0.78
1:N:67:ARG:HH12	1:g:208:ASN:HD22	1.26	0.78
1:N:243:ASN:ND2	1:N:246:MET:HG2	1.98	0.78
1:R:230:PHE:CD2	1:R:330:TYR:CZ	2.71	0.78
1:T:243:ASN:ND2	1:T:246:MET:HG2	1.98	0.78
1:V:243:ASN:ND2	1:V:246:MET:HG2	1.98	0.78
1:e:243:ASN:ND2	1:e:246:MET:HG2	1.98	0.78
1:X:243:ASN:ND2	1:X:246:MET:HG2	1.98	0.78
1:l:243:ASN:ND2	1:l:246:MET:HG2	1.97	0.78
1:u:230:PHE:CD2	1:u:330:TYR:CZ	2.71	0.78
1:y:206:ASN:HD21	1:1:53:ILE:HG13	1.47	0.78
1:F:230:PHE:CD2	1:F:330:TYR:CZ	2.71	0.78
1:O:122:THR:CG2	1:O:123:LYS:H	1.93	0.78
1:Z:230:PHE:CD2	1:Z:330:TYR:CZ	2.71	0.78
1:Z:243:ASN:ND2	1:Z:246:MET:HG2	1.98	0.78
1:a:206:ASN:HD21	1:b:53:ILE:HG13	1.47	0.78
1:a:243:ASN:ND2	1:a:246:MET:HG2	1.98	0.78
1:b:243:ASN:ND2	1:b:246:MET:HG2	1.98	0.78
1:c:243:ASN:ND2	1:c:246:MET:HG2	1.98	0.78
1:e:230:PHE:CD2	1:e:330:TYR:CZ	2.71	0.78
1:f:230:PHE:CD2	1:f:330:TYR:CZ	2.71	0.78
1:l:230:PHE:CD2	1:l:330:TYR:CZ	2.71	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:53:ILE:HG13	1:p:206:ASN:HD21	1.48	0.78
1:x:243:ASN:ND2	1:x:246:MET:HG2	1.98	0.78
1:2:122:THR:CG2	1:2:123:LYS:H	1.93	0.78
1:E:53:ILE:HG13	1:Q:206:ASN:HD21	1.47	0.78
1:Y:243:ASN:ND2	1:Y:246:MET:HG2	1.98	0.78
1:8:243:ASN:ND2	1:8:246:MET:HG2	1.98	0.78
1:h:243:ASN:ND2	1:h:246:MET:HG2	1.98	0.78
1:i:230:PHE:CD2	1:i:330:TYR:CZ	2.71	0.78
1:n:53:ILE:HG13	1:o:206:ASN:HD21	1.47	0.78
1:D:230:PHE:CD2	1:D:330:TYR:CZ	2.70	0.78
1:E:230:PHE:CD2	1:E:330:TYR:CZ	2.71	0.78
1:E:243:ASN:ND2	1:E:246:MET:HG2	1.98	0.78
1:J:230:PHE:CD2	1:J:330:TYR:CZ	2.71	0.78
1:J:243:ASN:ND2	1:J:246:MET:HG2	1.98	0.78
1:3:243:ASN:ND2	1:3:246:MET:HG2	1.97	0.78
1:f:243:ASN:ND2	1:f:246:MET:HG2	1.98	0.78
1:p:230:PHE:CD2	1:p:330:TYR:CZ	2.71	0.78
1:A:230:PHE:CD2	1:A:330:TYR:CZ	2.71	0.78
1:H:230:PHE:CD2	1:H:330:TYR:CZ	2.71	0.78
1:M:206:ASN:ND2	1:7:53:ILE:HG13	1.99	0.78
1:M:230:PHE:CD2	1:M:330:TYR:CZ	2.71	0.78
1:4:243:ASN:ND2	1:4:246:MET:HG2	1.98	0.78
1:w:122:THR:CG2	1:w:123:LYS:H	1.93	0.78
1:K:53:ILE:HG13	1:8:206:ASN:HD21	1.46	0.78
1:8:230:PHE:CD2	1:8:330:TYR:CZ	2.70	0.78
1:5:122:THR:CG2	1:5:123:LYS:H	1.93	0.78
1:n:230:PHE:CD2	1:n:330:TYR:CZ	2.71	0.78
1:n:243:ASN:ND2	1:n:246:MET:HG2	1.98	0.78
1:s:230:PHE:CD2	1:s:330:TYR:CZ	2.71	0.78
1:t:243:ASN:ND2	1:t:246:MET:HG2	1.98	0.78
1:z:230:PHE:CD2	1:z:330:TYR:CZ	2.71	0.78
1:F:258:ILE:HA	1:F:367:ASP:HA	1.66	0.78
1:I:122:THR:CG2	1:I:123:LYS:H	1.93	0.78
1:U:230:PHE:CD2	1:U:330:TYR:CZ	2.71	0.78
1:d:243:ASN:ND2	1:d:246:MET:HG2	1.98	0.78
1:h:230:PHE:CD2	1:h:330:TYR:CZ	2.71	0.78
1:p:258:ILE:HA	1:p:367:ASP:HA	1.66	0.78
1:C:230:PHE:CD2	1:C:330:TYR:CZ	2.70	0.78
1:H:243:ASN:ND2	1:H:246:MET:HG2	1.98	0.78
1:N:258:ILE:HA	1:N:367:ASP:HA	1.66	0.78
1:O:243:ASN:ND2	1:O:246:MET:HG2	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:260:VAL:CG1	1:f:328:GLN:CG	2.60	0.78
1:j:230:PHE:CD2	1:j:330:TYR:CZ	2.70	0.78
1:t:230:PHE:CD2	1:t:330:TYR:CZ	2.71	0.78
1:x:258:ILE:HA	1:x:367:ASP:HA	1.66	0.78
1:1:258:ILE:HA	1:1:367:ASP:HA	1.66	0.78
1:2:243:ASN:ND2	1:2:246:MET:HG2	1.97	0.78
1:2:258:ILE:HA	1:2:367:ASP:HA	1.66	0.78
1:G:258:ILE:HA	1:G:367:ASP:HA	1.66	0.78
1:K:243:ASN:ND2	1:K:246:MET:HG2	1.98	0.78
1:L:258:ILE:HA	1:L:367:ASP:HA	1.66	0.78
1:U:243:ASN:ND2	1:U:246:MET:HG2	1.98	0.78
1:V:258:ILE:HA	1:V:367:ASP:HA	1.66	0.78
1:Z:260:VAL:CG1	1:Z:328:GLN:CG	2.60	0.78
1:a:258:ILE:HA	1:a:367:ASP:HA	1.66	0.78
1:g:53:ILE:HG13	1:h:206:ASN:HD21	1.46	0.78
1:m:258:ILE:HA	1:m:367:ASP:HA	1.66	0.78
1:q:258:ILE:HA	1:q:367:ASP:HA	1.66	0.78
1:x:194:SER:HB3	1:x:197:ASN:HB2	1.66	0.78
1:O:258:ILE:HA	1:O:367:ASP:HA	1.66	0.77
1:T:258:ILE:HA	1:T:367:ASP:HA	1.66	0.77
1:W:258:ILE:HA	1:W:367:ASP:HA	1.66	0.77
1:e:258:ILE:HA	1:e:367:ASP:HA	1.66	0.77
1:r:122:THR:CG2	1:r:123:LYS:H	1.93	0.77
1:B:206:ASN:HD21	1:L:53:ILE:HG13	1.47	0.77
1:I:194:SER:HB3	1:I:197:ASN:HB2	1.67	0.77
1:P:258:ILE:HA	1:P:367:ASP:HA	1.66	0.77
1:S:243:ASN:ND2	1:S:246:MET:HG2	1.97	0.77
1:T:194:SER:HB3	1:T:197:ASN:HB2	1.67	0.77
1:7:260:VAL:CG1	1:7:328:GLN:CG	2.60	0.77
1:6:260:VAL:CG1	1:6:328:GLN:CG	2.60	0.77
1:5:258:ILE:HA	1:5:367:ASP:HA	1.66	0.77
1:4:194:SER:HB3	1:4:197:ASN:HB2	1.67	0.77
1:3:194:SER:HB3	1:3:197:ASN:HB2	1.67	0.77
1:g:243:ASN:ND2	1:g:246:MET:HG2	1.98	0.77
1:v:243:ASN:ND2	1:v:246:MET:HG2	1.98	0.77
1:D:194:SER:HB3	1:D:197:ASN:HB2	1.67	0.77
1:M:194:SER:HB3	1:M:197:ASN:HB2	1.66	0.77
1:P:194:SER:HB3	1:P:197:ASN:HB2	1.66	0.77
1:R:194:SER:HB3	1:R:197:ASN:HB2	1.67	0.77
1:h:258:ILE:HA	1:h:367:ASP:HA	1.66	0.77
1:n:206:ASN:HD21	1:p:53:ILE:HG13	1.46	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:194:SER:HB3	1:r:197:ASN:HB2	1.66	0.77
1:u:194:SER:HB3	1:u:197:ASN:HB2	1.67	0.77
1:w:258:ILE:HA	1:w:367:ASP:HA	1.66	0.77
1:y:194:SER:HB3	1:y:197:ASN:HB2	1.67	0.77
1:y:258:ILE:HA	1:y:367:ASP:HA	1.66	0.77
1:z:194:SER:HB3	1:z:197:ASN:HB2	1.67	0.77
1:A:194:SER:HB3	1:A:197:ASN:HB2	1.66	0.77
1:E:194:SER:HB3	1:E:197:ASN:HB2	1.66	0.77
1:8:258:ILE:HA	1:8:367:ASP:HA	1.66	0.77
1:6:243:ASN:ND2	1:6:246:MET:HG2	1.98	0.77
1:i:194:SER:HB3	1:i:197:ASN:HB2	1.67	0.77
1:n:194:SER:HB3	1:n:197:ASN:HB2	1.67	0.77
1:Y:260:VAL:CG1	1:Y:328:GLN:CG	2.60	0.77
1:3:53:ILE:HG13	1:b:206:ASN:HD21	1.47	0.77
1:f:258:ILE:HA	1:f:367:ASP:HA	1.66	0.77
1:k:206:ASN:HD21	1:m:53:ILE:HG13	1.47	0.77
1:s:194:SER:HB3	1:s:197:ASN:HB2	1.66	0.77
1:u:258:ILE:HA	1:u:367:ASP:HA	1.66	0.77
1:X:206:ASN:HD21	1:4:53:ILE:HG13	1.47	0.77
1:6:258:ILE:HA	1:6:367:ASP:HA	1.66	0.77
1:B:194:SER:HB3	1:B:197:ASN:HB2	1.67	0.77
1:G:260:VAL:CG1	1:G:328:GLN:CG	2.60	0.77
1:M:258:ILE:HA	1:M:367:ASP:HA	1.66	0.77
1:R:258:ILE:HA	1:R:367:ASP:HA	1.66	0.77
1:Z:258:ILE:HA	1:Z:367:ASP:HA	1.66	0.77
1:7:258:ILE:HA	1:7:367:ASP:HA	1.66	0.77
1:d:194:SER:HB3	1:d:197:ASN:HB2	1.66	0.77
1:q:260:VAL:CG1	1:q:328:GLN:CG	2.60	0.77
1:E:206:ASN:HD21	1:F:53:ILE:HG13	1.47	0.77
1:7:243:ASN:ND2	1:7:246:MET:HG2	1.98	0.77
1:c:260:VAL:CG1	1:c:328:GLN:CG	2.60	0.77
1:k:194:SER:HB3	1:k:197:ASN:HB2	1.67	0.77
1:l:258:ILE:HA	1:l:367:ASP:HA	1.66	0.77
1:C:258:ILE:HA	1:C:367:ASP:HA	1.66	0.77
1:F:194:SER:HB3	1:F:197:ASN:HB2	1.66	0.77
1:H:194:SER:HB3	1:H:197:ASN:HB2	1.66	0.77
1:L:260:VAL:CG1	1:L:328:GLN:CG	2.60	0.77
1:i:258:ILE:HA	1:i:367:ASP:HA	1.66	0.77
1:j:258:ILE:HA	1:j:367:ASP:HA	1.66	0.77
1:J:258:ILE:HA	1:J:367:ASP:HA	1.66	0.77
1:m:260:VAL:CG1	1:m:328:GLN:CG	2.60	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:206:ASN:ND2	1:p:53:ILE:HG13	2.00	0.76
1:p:194:SER:HB3	1:p:197:ASN:HB2	1.66	0.76
1:C:53:ILE:HG13	1:7:206:ASN:ND2	1.99	0.76
1:C:194:SER:HB3	1:C:197:ASN:HB2	1.67	0.76
1:J:260:VAL:CG1	1:J:328:GLN:CG	2.60	0.76
1:l:260:VAL:CG1	1:l:328:GLN:CG	2.60	0.76
1:w:194:SER:HB3	1:w:197:ASN:HB2	1.66	0.76
1:H:53:ILE:HG13	1:W:206:ASN:ND2	2.01	0.76
1:H:206:ASN:ND2	1:Y:53:ILE:HG13	2.01	0.76
1:K:194:SER:HB3	1:K:197:ASN:HB2	1.67	0.76
1:R:53:ILE:HG13	1:S:206:ASN:HD21	1.47	0.76
1:U:258:ILE:HA	1:U:367:ASP:HA	1.66	0.76
1:Z:194:SER:HB3	1:Z:197:ASN:HB2	1.66	0.76
1:b:260:VAL:CG1	1:b:328:GLN:CG	2.60	0.76
1:c:194:SER:HB3	1:c:197:ASN:HB2	1.67	0.76
1:d:53:ILE:HG13	1:e:206:ASN:ND2	2.01	0.76
1:f:194:SER:HB3	1:f:197:ASN:HB2	1.67	0.76
1:g:194:SER:HB3	1:g:197:ASN:HB2	1.66	0.76
1:u:53:ILE:HG13	1:v:206:ASN:HD21	1.47	0.76
1:A:258:ILE:HA	1:A:367:ASP:HA	1.66	0.76
1:6:53:ILE:HG13	1:i:206:ASN:ND2	2.01	0.76
1:b:194:SER:HB3	1:b:197:ASN:HB2	1.67	0.76
1:c:53:ILE:HG13	1:d:206:ASN:ND2	2.01	0.76
1:j:194:SER:HB3	1:j:197:ASN:HB2	1.66	0.76
1:t:258:ILE:HA	1:t:367:ASP:HA	1.66	0.76
1:v:258:ILE:HA	1:v:367:ASP:HA	1.66	0.76
1:E:53:ILE:HG13	1:Q:206:ASN:ND2	2.01	0.76
1:E:206:ASN:ND2	1:F:53:ILE:HG13	2.01	0.76
1:I:258:ILE:HA	1:I:367:ASP:HA	1.66	0.76
1:T:53:ILE:HG13	1:5:206:ASN:ND2	2.00	0.76
1:Y:194:SER:HB3	1:Y:197:ASN:HB2	1.67	0.76
1:5:194:SER:HB3	1:5:197:ASN:HB2	1.66	0.76
1:4:258:ILE:HA	1:4:367:ASP:HA	1.66	0.76
1:E:258:ILE:HA	1:E:367:ASP:HA	1.66	0.76
1:J:194:SER:HB3	1:J:197:ASN:HB2	1.67	0.76
1:X:194:SER:HB3	1:X:197:ASN:HB2	1.67	0.76
1:3:206:ASN:ND2	1:a:53:ILE:HG13	2.01	0.76
1:3:258:ILE:HA	1:3:367:ASP:HA	1.66	0.76
1:k:258:ILE:HA	1:k:367:ASP:HA	1.66	0.76
1:n:53:ILE:HG13	1:o:206:ASN:ND2	2.01	0.76
1:r:258:ILE:HA	1:r:367:ASP:HA	1.66	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:258:ILE:HA	1:s:367:ASP:HA	1.66	0.76
1:w:206:ASN:ND2	1:x:53:ILE:HG13	2.00	0.76
1:L:194:SER:HB3	1:L:197:ASN:HB2	1.67	0.76
1:R:206:ASN:ND2	1:U:53:ILE:HG13	2.01	0.76
1:S:258:ILE:HA	1:S:367:ASP:HA	1.66	0.76
1:V:194:SER:HB3	1:V:197:ASN:HB2	1.67	0.76
1:t:53:ILE:HG13	1:u:206:ASN:ND2	2.01	0.76
1:B:258:ILE:HA	1:B:367:ASP:HA	1.66	0.76
1:F:206:ASN:ND2	1:Q:53:ILE:HG13	2.01	0.76
1:R:53:ILE:HG13	1:S:206:ASN:ND2	2.01	0.76
1:c:258:ILE:HA	1:c:367:ASP:HA	1.66	0.76
1:l:194:SER:HB3	1:l:197:ASN:HB2	1.66	0.76
1:n:258:ILE:HA	1:n:367:ASP:HA	1.66	0.76
1:q:206:ASN:ND2	1:s:53:ILE:HG13	2.01	0.76
1:K:53:ILE:HG13	1:8:206:ASN:ND2	2.00	0.76
1:R:260:VAL:CG1	1:R:328:GLN:CG	2.60	0.76
1:T:206:ASN:ND2	1:f:53:ILE:HG13	2.01	0.76
1:V:53:ILE:HG13	1:4:206:ASN:ND2	2.01	0.76
1:a:194:SER:HB3	1:a:197:ASN:HB2	1.66	0.76
1:m:194:SER:HB3	1:m:197:ASN:HB2	1.66	0.76
1:o:169:LYS:HD3	1:o:343:ASN:HD22	1.51	0.76
1:q:169:LYS:HD3	1:q:343:ASN:HD22	1.51	0.76
1:r:53:ILE:HG13	1:s:206:ASN:ND2	2.01	0.76
1:r:169:LYS:HD3	1:r:343:ASN:HD22	1.51	0.76
1:u:53:ILE:HG13	1:v:206:ASN:ND2	2.01	0.76
1:2:260:VAL:CG1	1:2:328:GLN:CG	2.60	0.76
1:O:194:SER:HB3	1:O:197:ASN:HB2	1.66	0.76
1:Q:169:LYS:HD3	1:Q:343:ASN:HD22	1.51	0.76
1:Q:194:SER:HB3	1:Q:197:ASN:HB2	1.66	0.76
1:Y:258:ILE:HA	1:Y:367:ASP:HA	1.66	0.76
1:6:194:SER:HB3	1:6:197:ASN:HB2	1.66	0.76
1:g:53:ILE:HG13	1:h:206:ASN:ND2	2.00	0.76
1:o:194:SER:HB3	1:o:197:ASN:HB2	1.67	0.76
1:u:260:VAL:CG1	1:u:328:GLN:CG	2.60	0.76
1:A:53:ILE:HG13	1:G:206:ASN:ND2	2.01	0.75
1:B:260:VAL:CG1	1:B:328:GLN:CG	2.60	0.75
1:G:169:LYS:HD3	1:G:343:ASN:HD22	1.51	0.75
1:I:169:LYS:HD3	1:I:343:ASN:HD22	1.51	0.75
1:O:260:VAL:CG1	1:O:328:GLN:CG	2.60	0.75
1:Z:53:ILE:HG13	1:x:206:ASN:ND2	2.01	0.75
1:8:194:SER:HB3	1:8:197:ASN:HB2	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:194:SER:HB3	1:7:197:ASN:HB2	1.67	0.75
1:6:206:ASN:ND2	1:j:53:ILE:HG13	2.01	0.75
1:j:169:LYS:HD3	1:j:343:ASN:HD22	1.51	0.75
1:s:260:VAL:CG1	1:s:328:GLN:CG	2.60	0.75
1:z:258:ILE:HA	1:z:367:ASP:HA	1.66	0.75
1:2:194:SER:HB3	1:2:197:ASN:HB2	1.66	0.75
1:A:260:VAL:CG1	1:A:328:GLN:CG	2.60	0.75
1:C:169:LYS:HD3	1:C:343:ASN:HD22	1.51	0.75
1:K:260:VAL:CG1	1:K:328:GLN:CG	2.60	0.75
1:M:169:LYS:HD3	1:M:343:ASN:HD22	1.51	0.75
1:b:258:ILE:HA	1:b:367:ASP:HA	1.66	0.75
1:c:206:ASN:ND2	1:e:53:ILE:HG13	2.01	0.75
1:g:169:LYS:HD3	1:g:343:ASN:HD22	1.51	0.75
1:k:260:VAL:CG1	1:k:328:GLN:CG	2.60	0.75
1:q:122:THR:CG2	1:q:123:LYS:N	2.48	0.75
1:z:53:ILE:HG13	1:1:206:ASN:ND2	2.01	0.75
1:A:206:ASN:ND2	1:I:53:ILE:HG13	2.01	0.75
1:D:258:ILE:HA	1:D:367:ASP:HA	1.66	0.75
1:J:53:ILE:HG13	1:L:206:ASN:ND2	2.01	0.75
1:W:53:ILE:HG13	1:Y:206:ASN:ND2	2.01	0.75
1:5:169:LYS:HD3	1:5:343:ASN:HD22	1.51	0.75
1:h:194:SER:HB3	1:h:197:ASN:HB2	1.67	0.75
1:k:206:ASN:ND2	1:m:53:ILE:HG13	2.01	0.75
1:o:53:ILE:HG13	1:p:206:ASN:ND2	2.02	0.75
1:p:169:LYS:HD3	1:p:343:ASN:HD22	1.51	0.75
1:w:169:LYS:HD3	1:w:343:ASN:HD22	1.51	0.75
1:B:206:ASN:ND2	1:L:53:ILE:HG13	2.01	0.75
1:D:53:ILE:HG13	1:N:206:ASN:ND2	2.01	0.75
1:D:206:ASN:ND2	1:P:53:ILE:HG13	2.01	0.75
1:G:122:THR:CG2	1:G:123:LYS:N	2.48	0.75
1:K:169:LYS:HD3	1:K:343:ASN:HD22	1.51	0.75
1:Q:258:ILE:HA	1:Q:367:ASP:HA	1.66	0.75
1:3:169:LYS:HD3	1:3:343:ASN:HD22	1.51	0.75
1:3:260:VAL:CG1	1:3:328:GLN:CG	2.60	0.75
1:c:169:LYS:HD3	1:c:343:ASN:HD22	1.51	0.75
1:g:258:ILE:HA	1:g:367:ASP:HA	1.66	0.75
1:g:260:VAL:CG1	1:g:328:GLN:CG	2.60	0.75
1:i:169:LYS:HD3	1:i:343:ASN:HD22	1.51	0.75
1:l:53:ILE:HG13	1:m:206:ASN:ND2	2.01	0.75
1:v:194:SER:HB3	1:v:197:ASN:HB2	1.66	0.75
1:y:206:ASN:ND2	1:1:53:ILE:HG13	2.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:169:LYS:HD3	1:D:343:ASN:HD22	1.51	0.75
1:H:258:ILE:HA	1:H:367:ASP:HA	1.66	0.75
1:K:206:ASN:ND2	1:2:53:ILE:HG13	2.01	0.75
1:O:206:ASN:ND2	1:h:53:ILE:HG13	2.01	0.75
1:W:194:SER:HB3	1:W:197:ASN:HB2	1.67	0.75
1:Y:169:LYS:HD3	1:Y:343:ASN:HD22	1.51	0.75
1:8:169:LYS:HD3	1:8:343:ASN:HD22	1.51	0.75
1:4:260:VAL:CG1	1:4:328:GLN:CG	2.60	0.75
1:a:206:ASN:ND2	1:b:53:ILE:HG13	2.01	0.75
1:z:169:LYS:HD3	1:z:343:ASN:HD22	1.51	0.75
1:E:169:LYS:HD3	1:E:343:ASN:HD22	1.51	0.75
1:F:169:LYS:HD3	1:F:343:ASN:HD22	1.51	0.75
1:J:169:LYS:HD3	1:J:343:ASN:HD22	1.51	0.75
1:K:258:ILE:HA	1:K:367:ASP:HA	1.66	0.75
1:N:53:ILE:HG13	1:P:206:ASN:ND2	2.01	0.75
1:N:194:SER:HB3	1:N:197:ASN:HB2	1.67	0.75
1:O:53:ILE:HG13	1:g:206:ASN:ND2	2.01	0.75
1:O:122:THR:CG2	1:O:123:LYS:N	2.48	0.75
1:S:194:SER:HB3	1:S:197:ASN:HB2	1.67	0.75
1:T:260:VAL:CG1	1:T:328:GLN:CG	2.60	0.75
1:V:206:ASN:ND2	1:X:53:ILE:HG13	2.01	0.75
1:X:258:ILE:HA	1:X:367:ASP:HA	1.66	0.75
1:8:53:ILE:HG13	1:2:206:ASN:ND2	2.01	0.75
1:4:169:LYS:HD3	1:4:343:ASN:HD22	1.51	0.75
1:a:169:LYS:HD3	1:a:343:ASN:HD22	1.51	0.75
1:e:194:SER:HB3	1:e:197:ASN:HB2	1.67	0.75
1:h:169:LYS:HD3	1:h:343:ASN:HD22	1.51	0.75
1:l:169:LYS:HD3	1:l:343:ASN:HD22	1.51	0.75
1:m:122:THR:CG2	1:m:123:LYS:N	2.48	0.75
1:n:169:LYS:HD3	1:n:343:ASN:HD22	1.51	0.75
1:q:194:SER:HB3	1:q:197:ASN:HB2	1.66	0.75
1:y:53:ILE:HG13	1:z:206:ASN:ND2	2.01	0.75
1:Q:260:VAL:CG1	1:Q:328:GLN:CG	2.60	0.75
1:S:169:LYS:HD3	1:S:343:ASN:HD22	1.51	0.75
1:V:169:LYS:HD3	1:V:343:ASN:HD22	1.51	0.75
1:5:53:ILE:HG13	1:f:206:ASN:ND2	2.01	0.75
1:d:258:ILE:HA	1:d:367:ASP:HA	1.66	0.75
1:o:258:ILE:HA	1:o:367:ASP:HA	1.66	0.75
1:o:260:VAL:CG1	1:o:328:GLN:CG	2.60	0.75
1:v:169:LYS:HD3	1:v:343:ASN:HD22	1.51	0.75
1:1:194:SER:HB3	1:1:197:ASN:HB2	1.67	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:122:THR:CG2	1:2:123:LYS:N	2.48	0.75
1:E:260:VAL:CG1	1:E:328:GLN:CG	2.60	0.75
1:G:53:ILE:HG13	1:I:206:ASN:ND2	2.01	0.75
1:G:194:SER:HB3	1:G:197:ASN:HB2	1.66	0.75
1:L:122:THR:CG2	1:L:123:LYS:N	2.48	0.75
1:R:169:LYS:HD3	1:R:343:ASN:HD22	1.51	0.75
1:Z:206:ASN:ND2	1:w:53:ILE:HG13	2.01	0.75
1:d:169:LYS:HD3	1:d:343:ASN:HD22	1.51	0.75
1:u:169:LYS:HD3	1:u:343:ASN:HD22	1.51	0.75
1:n:260:VAL:CG1	1:n:328:GLN:CG	2.60	0.75
1:H:169:LYS:HD3	1:H:343:ASN:HD22	1.51	0.74
1:O:169:LYS:HD3	1:O:343:ASN:HD22	1.51	0.74
1:t:206:ASN:ND2	1:v:53:ILE:HG13	2.01	0.74
1:x:260:VAL:CG1	1:x:328:GLN:CG	2.60	0.74
1:D:260:VAL:CG1	1:D:328:GLN:CG	2.60	0.74
1:S:53:ILE:HG13	1:U:206:ASN:ND2	2.01	0.74
1:6:169:LYS:HD3	1:6:343:ASN:HD22	1.51	0.74
1:c:122:THR:CG2	1:c:123:LYS:N	2.48	0.74
1:q:53:ILE:HG13	1:r:206:ASN:ND2	2.01	0.74
1:z:260:VAL:CG1	1:z:328:GLN:CG	2.60	0.74
1:N:169:LYS:HD3	1:N:343:ASN:HD22	1.51	0.74
1:P:169:LYS:HD3	1:P:343:ASN:HD22	1.51	0.74
1:7:169:LYS:HD3	1:7:343:ASN:HD22	1.51	0.74
1:b:169:LYS:HD3	1:b:343:ASN:HD22	1.51	0.74
1:k:169:LYS:HD3	1:k:343:ASN:HD22	1.51	0.74
1:t:169:LYS:HD3	1:t:343:ASN:HD22	1.51	0.74
1:t:194:SER:HB3	1:t:197:ASN:HB2	1.67	0.74
1:y:169:LYS:HD3	1:y:343:ASN:HD22	1.51	0.74
1:U:169:LYS:HD3	1:U:343:ASN:HD22	1.51	0.74
1:Y:122:THR:CG2	1:Y:123:LYS:N	2.48	0.74
1:2:169:LYS:HD3	1:2:343:ASN:HD22	1.51	0.74
1:B:169:LYS:HD3	1:B:343:ASN:HD22	1.51	0.74
1:L:169:LYS:HD3	1:L:343:ASN:HD22	1.51	0.74
1:U:194:SER:HB3	1:U:197:ASN:HB2	1.66	0.74
1:X:169:LYS:HD3	1:X:343:ASN:HD22	1.51	0.74
1:1:260:VAL:CG1	1:1:328:GLN:CG	2.60	0.74
1:N:260:VAL:CG1	1:N:328:GLN:CG	2.60	0.74
1:k:53:ILE:HG13	1:l:206:ASN:ND2	2.01	0.74
1:1:169:LYS:HD3	1:1:343:ASN:HD22	1.51	0.74
1:A:230:PHE:CD1	1:A:329:SER:O	2.41	0.74
1:B:53:ILE:HG13	1:J:206:ASN:ND2	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:230:PHE:CD1	1:H:329:SER:O	2.41	0.74
1:Q:230:PHE:CD1	1:Q:329:SER:O	2.41	0.74
1:g:230:PHE:CD1	1:g:329:SER:O	2.41	0.74
1:s:230:PHE:CD1	1:s:329:SER:O	2.41	0.74
1:A:67:ARG:NH2	1:E:205:PHE:O	2.21	0.74
1:G:230:PHE:CD1	1:G:329:SER:O	2.41	0.74
1:K:230:PHE:CD1	1:K:329:SER:O	2.41	0.74
1:X:206:ASN:ND2	1:4:53:ILE:HG13	2.01	0.74
1:5:230:PHE:CD1	1:5:329:SER:O	2.41	0.74
1:3:53:ILE:HG13	1:b:206:ASN:ND2	2.01	0.74
1:b:122:THR:CG2	1:b:123:LYS:N	2.48	0.74
1:d:230:PHE:CD1	1:d:329:SER:O	2.41	0.74
1:m:169:LYS:HD3	1:m:343:ASN:HD22	1.51	0.74
1:o:230:PHE:CD1	1:o:329:SER:O	2.41	0.74
1:q:230:PHE:CD1	1:q:329:SER:O	2.41	0.74
1:w:230:PHE:CD1	1:w:329:SER:O	2.41	0.74
1:I:230:PHE:CD1	1:I:329:SER:O	2.41	0.74
1:X:122:THR:CG2	1:X:123:LYS:N	2.48	0.74
1:8:230:PHE:CD1	1:8:329:SER:O	2.41	0.74
1:a:260:VAL:CG1	1:a:328:GLN:CG	2.60	0.74
1:r:230:PHE:CD1	1:r:329:SER:O	2.41	0.74
1:u:230:PHE:CD1	1:u:329:SER:O	2.41	0.74
1:C:230:PHE:CD1	1:C:329:SER:O	2.41	0.74
1:G:67:ARG:NH2	1:W:205:PHE:O	2.21	0.74
1:I:260:VAL:CG1	1:I:328:GLN:CG	2.60	0.74
1:R:230:PHE:CD1	1:R:329:SER:O	2.41	0.74
1:W:169:LYS:HD3	1:W:343:ASN:HD22	1.51	0.74
1:8:260:VAL:CG1	1:8:328:GLN:CG	2.60	0.74
1:6:122:THR:CG2	1:6:123:LYS:H	1.93	0.74
1:e:205:PHE:O	1:q:67:ARG:NH2	2.21	0.74
1:g:122:THR:CG2	1:g:123:LYS:N	2.48	0.74
1:h:230:PHE:CD1	1:h:329:SER:O	2.41	0.74
1:C:206:ASN:ND2	1:M:53:ILE:HG13	2.01	0.73
1:H:67:ARG:NH2	1:I:205:PHE:O	2.21	0.73
1:K:122:THR:CG2	1:K:123:LYS:N	2.48	0.73
1:O:230:PHE:CD1	1:O:329:SER:O	2.41	0.73
1:7:122:THR:CG2	1:7:123:LYS:H	1.93	0.73
1:e:169:LYS:HD3	1:e:343:ASN:HD22	1.51	0.73
1:j:230:PHE:CD1	1:j:329:SER:O	2.41	0.73
1:s:169:LYS:HD3	1:s:343:ASN:HD22	1.51	0.73
1:D:230:PHE:CD1	1:D:329:SER:O	2.41	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:230:PHE:CD1	1:M:329:SER:O	2.41	0.73
1:M:260:VAL:CG1	1:M:328:GLN:CG	2.60	0.73
1:b:230:PHE:CD1	1:b:329:SER:O	2.41	0.73
1:i:53:ILE:HG13	1:j:206:ASN:ND2	2.01	0.73
1:i:230:PHE:CD1	1:i:329:SER:O	2.41	0.73
1:z:230:PHE:CD1	1:z:329:SER:O	2.41	0.73
1:2:230:PHE:CD1	1:2:329:SER:O	2.41	0.73
1:A:169:LYS:HD3	1:A:343:ASN:HD22	1.51	0.73
1:X:230:PHE:CD1	1:X:329:SER:O	2.41	0.73
1:Z:169:LYS:HD3	1:Z:343:ASN:HD22	1.51	0.73
1:d:67:ARG:NH2	1:r:205:PHE:O	2.21	0.73
1:h:260:VAL:CG1	1:h:328:GLN:CG	2.60	0.73
1:k:230:PHE:CD1	1:k:329:SER:O	2.41	0.73
1:n:205:PHE:O	1:s:67:ARG:NH2	2.21	0.73
1:r:260:VAL:CG1	1:r:328:GLN:CG	2.60	0.73
1:B:230:PHE:CD1	1:B:329:SER:O	2.41	0.73
1:V:205:PHE:O	1:W:67:ARG:NH2	2.21	0.73
1:7:67:ARG:NH2	1:i:205:PHE:O	2.21	0.73
1:7:230:PHE:CD1	1:7:329:SER:O	2.41	0.73
1:a:205:PHE:O	1:e:67:ARG:NH2	2.21	0.73
1:y:230:PHE:CD1	1:y:329:SER:O	2.41	0.73
1:N:67:ARG:NH2	1:g:205:PHE:O	2.21	0.73
1:P:230:PHE:CD1	1:P:329:SER:O	2.41	0.73
1:T:169:LYS:HD3	1:T:343:ASN:HD22	1.51	0.73
1:V:230:PHE:CD1	1:V:329:SER:O	2.41	0.73
1:e:230:PHE:CD1	1:e:329:SER:O	2.41	0.73
1:n:122:THR:CG2	1:n:123:LYS:N	2.48	0.73
1:x:169:LYS:HD3	1:x:343:ASN:HD22	1.51	0.73
1:C:122:THR:CG2	1:C:123:LYS:N	2.48	0.73
1:H:260:VAL:CG1	1:H:328:GLN:CG	2.60	0.73
1:W:230:PHE:CD1	1:W:329:SER:O	2.41	0.73
1:6:230:PHE:CD1	1:6:329:SER:O	2.41	0.73
1:f:169:LYS:HD3	1:f:343:ASN:HD22	1.51	0.73
1:i:260:VAL:CG1	1:i:328:GLN:CG	2.60	0.73
1:E:122:THR:CG2	1:E:123:LYS:N	2.48	0.73
1:K:205:PHE:O	1:1:67:ARG:NH2	2.21	0.73
1:Q:67:ARG:NH2	1:S:205:PHE:O	2.21	0.73
1:T:230:PHE:CD1	1:T:329:SER:O	2.41	0.73
1:4:230:PHE:CD1	1:4:329:SER:O	2.41	0.73
1:a:230:PHE:CD1	1:a:329:SER:O	2.41	0.73
1:j:122:THR:CG2	1:j:123:LYS:N	2.48	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:260:VAL:CG1	1:j:328:GLN:CG	2.60	0.73
1:t:230:PHE:CD1	1:t:329:SER:O	2.41	0.73
1:E:230:PHE:CD1	1:E:329:SER:O	2.41	0.73
1:S:230:PHE:CD1	1:S:329:SER:O	2.41	0.73
1:3:230:PHE:CD1	1:3:329:SER:O	2.41	0.73
1:n:230:PHE:CD1	1:n:329:SER:O	2.41	0.73
1:v:230:PHE:CD1	1:v:329:SER:O	2.41	0.73
1:x:230:PHE:CD1	1:x:329:SER:O	2.41	0.73
1:J:230:PHE:CD1	1:J:329:SER:O	2.41	0.73
1:U:230:PHE:CD1	1:U:329:SER:O	2.41	0.73
1:Z:230:PHE:CD1	1:Z:329:SER:O	2.41	0.73
1:d:260:VAL:CG1	1:d:328:GLN:CG	2.60	0.73
1:m:230:PHE:CD1	1:m:329:SER:O	2.41	0.73
1:p:230:PHE:CD1	1:p:329:SER:O	2.41	0.73
1:D:205:PHE:O	1:E:67:ARG:NH2	2.21	0.72
1:F:230:PHE:CD1	1:F:329:SER:O	2.41	0.72
1:L:230:PHE:CD1	1:L:329:SER:O	2.41	0.72
1:c:230:PHE:CD1	1:c:329:SER:O	2.41	0.72
1:f:230:PHE:CD1	1:f:329:SER:O	2.41	0.72
1:l:230:PHE:CD1	1:l:329:SER:O	2.41	0.72
1:o:67:ARG:NH2	1:v:205:PHE:O	2.21	0.72
1:C:260:VAL:CG1	1:C:328:GLN:CG	2.60	0.72
1:U:260:VAL:CG1	1:U:328:GLN:CG	2.60	0.72
1:Y:230:PHE:CD1	1:Y:329:SER:O	2.41	0.72
1:e:260:VAL:CG1	1:e:328:GLN:CG	2.60	0.72
1:w:260:VAL:CG1	1:w:328:GLN:CG	2.60	0.72
1:D:122:THR:CG2	1:D:123:LYS:N	2.48	0.72
1:n:67:ARG:NH2	1:z:205:PHE:O	2.21	0.72
1:B:205:PHE:O	1:C:67:ARG:NH2	2.21	0.72
1:J:67:ARG:NH2	1:8:205:PHE:O	2.21	0.72
1:K:67:ARG:NH2	1:L:205:PHE:O	2.21	0.72
1:N:230:PHE:CD1	1:N:329:SER:O	2.41	0.72
1:T:205:PHE:O	1:c:67:ARG:NH2	2.21	0.72
1:3:122:THR:CG2	1:3:123:LYS:N	2.48	0.72
1:j:67:ARG:NH2	1:k:205:PHE:O	2.21	0.72
1:1:230:PHE:CD1	1:1:329:SER:O	2.41	0.72
1:Y:67:ARG:NH2	1:x:205:PHE:O	2.21	0.72
1:4:122:THR:CG2	1:4:123:LYS:N	2.48	0.72
1:H:205:PHE:O	1:Z:67:ARG:NH2	2.21	0.72
1:W:260:VAL:CG1	1:W:328:GLN:CG	2.60	0.72
1:5:260:VAL:CG1	1:5:328:GLN:CG	2.60	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:205:PHE:O	1:f:67:ARG:NH2	2.21	0.72
1:g:67:ARG:NH2	1:m:205:PHE:O	2.21	0.72
1:t:260:VAL:CG1	1:t:328:GLN:CG	2.60	0.72
1:v:260:VAL:CG1	1:v:328:GLN:CG	2.60	0.72
1:G:163:ASP:OD2	1:G:207:LYS:NZ	2.23	0.72
1:U:67:ARG:NH2	1:4:205:PHE:O	2.21	0.72
1:Z:163:ASP:OD2	1:Z:207:LYS:NZ	2.23	0.72
1:f:163:ASP:OD2	1:f:207:LYS:NZ	2.23	0.72
1:h:205:PHE:O	1:l:67:ARG:NH2	2.21	0.72
1:p:67:ARG:NH2	1:q:205:PHE:O	2.20	0.72
1:q:163:ASP:OD2	1:q:207:LYS:NZ	2.23	0.72
1:F:205:PHE:O	1:R:67:ARG:NH2	2.21	0.72
1:H:163:ASP:OD2	1:H:207:LYS:NZ	2.23	0.72
1:S:67:ARG:NH2	1:5:205:PHE:O	2.21	0.72
1:S:260:VAL:CG1	1:S:328:GLN:CG	2.60	0.72
1:V:260:VAL:CG1	1:V:328:GLN:CG	2.60	0.72
1:x:163:ASP:OD2	1:x:207:LYS:NZ	2.23	0.72
1:E:163:ASP:OD2	1:E:207:LYS:NZ	2.23	0.72
1:S:163:ASP:OD2	1:S:207:LYS:NZ	2.23	0.72
1:T:163:ASP:OD2	1:T:207:LYS:NZ	2.23	0.72
1:4:163:ASP:OD2	1:4:207:LYS:NZ	2.23	0.72
1:3:163:ASP:OD2	1:3:207:LYS:NZ	2.23	0.72
1:3:205:PHE:O	1:t:67:ARG:NH2	2.21	0.72
1:d:163:ASP:OD2	1:d:207:LYS:NZ	2.23	0.72
1:n:163:ASP:OD2	1:n:207:LYS:NZ	2.23	0.72
1:v:67:ARG:NH2	1:w:205:PHE:O	2.21	0.72
1:v:163:ASP:OD2	1:v:207:LYS:NZ	2.23	0.72
1:X:67:ARG:NH2	1:Y:205:PHE:O	2.21	0.72
1:X:205:PHE:O	1:3:67:ARG:NH2	2.21	0.72
1:4:67:ARG:NH2	1:b:205:PHE:O	2.21	0.72
1:b:67:ARG:NH2	1:c:205:PHE:O	2.21	0.71
1:I:67:ARG:NH2	1:J:205:PHE:O	2.21	0.71
1:W:163:ASP:OD2	1:W:207:LYS:NZ	2.23	0.71
1:p:205:PHE:O	1:u:67:ARG:NH2	2.21	0.71
1:D:163:ASP:OD2	1:D:207:LYS:NZ	2.23	0.71
1:F:67:ARG:NH2	1:G:205:PHE:O	2.21	0.71
1:F:163:ASP:OD2	1:F:207:LYS:NZ	2.23	0.71
1:M:67:ARG:NH2	1:N:205:PHE:O	2.21	0.71
1:O:67:ARG:NH2	1:P:205:PHE:O	2.21	0.71
1:R:163:ASP:OD2	1:R:207:LYS:NZ	2.23	0.71
1:e:163:ASP:OD2	1:e:207:LYS:NZ	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:163:ASP:OD2	1:z:207:LYS:NZ	2.23	0.71
1:B:228:PHE:CD2	1:B:328:GLN:HB2	2.26	0.71
1:G:228:PHE:CD2	1:G:328:GLN:HB2	2.26	0.71
1:5:163:ASP:OD2	1:5:207:LYS:NZ	2.23	0.71
1:k:228:PHE:CD2	1:k:328:GLN:HB2	2.26	0.71
1:u:163:ASP:OD2	1:u:207:LYS:NZ	2.23	0.71
1:A:205:PHE:O	1:B:67:ARG:NH2	2.21	0.71
1:T:228:PHE:CD2	1:T:328:GLN:HB2	2.26	0.71
1:c:228:PHE:CD2	1:c:328:GLN:HB2	2.26	0.71
1:k:67:ARG:NH2	1:s:205:PHE:O	2.21	0.71
1:l:205:PHE:O	1:r:67:ARG:NH2	2.21	0.71
1:p:163:ASP:OD2	1:p:207:LYS:NZ	2.23	0.71
1:q:228:PHE:CD2	1:q:328:GLN:HB2	2.26	0.71
1:s:163:ASP:OD2	1:s:207:LYS:NZ	2.23	0.71
1:x:228:PHE:CD2	1:x:328:GLN:HB2	2.26	0.71
1:A:163:ASP:OD2	1:A:207:LYS:NZ	2.23	0.71
1:X:163:ASP:OD2	1:X:207:LYS:NZ	2.23	0.71
1:Y:228:PHE:CD2	1:Y:328:GLN:HB2	2.26	0.71
1:i:67:ARG:NH2	1:1:205:PHE:O	2.21	0.71
1:n:228:PHE:CD2	1:n:328:GLN:HB2	2.26	0.71
1:w:163:ASP:OD2	1:w:207:LYS:NZ	2.23	0.71
1:y:205:PHE:O	1:2:67:ARG:NH2	2.21	0.71
1:E:228:PHE:CD2	1:E:328:GLN:HB2	2.26	0.71
1:M:163:ASP:OD2	1:M:207:LYS:NZ	2.23	0.71
1:N:163:ASP:OD2	1:N:207:LYS:NZ	2.23	0.71
1:i:163:ASP:OD2	1:i:207:LYS:NZ	2.23	0.71
1:o:228:PHE:CD2	1:o:328:GLN:HB2	2.26	0.71
1:1:163:ASP:OD2	1:1:207:LYS:NZ	2.23	0.71
1:C:163:ASP:OD2	1:C:207:LYS:NZ	2.23	0.71
1:J:163:ASP:OD2	1:J:207:LYS:NZ	2.23	0.71
1:P:228:PHE:CD2	1:P:328:GLN:HB2	2.26	0.71
1:R:122:THR:CG2	1:R:123:LYS:H	1.93	0.71
1:T:67:ARG:NH2	1:U:205:PHE:O	2.21	0.71
1:W:228:PHE:CD2	1:W:328:GLN:HB2	2.26	0.71
1:8:163:ASP:OD2	1:8:207:LYS:NZ	2.23	0.71
1:b:163:ASP:OD2	1:b:207:LYS:NZ	2.23	0.71
1:l:163:ASP:OD2	1:l:207:LYS:NZ	2.23	0.71
1:t:163:ASP:OD2	1:t:207:LYS:NZ	2.23	0.71
1:t:205:PHE:O	1:x:67:ARG:NH2	2.21	0.71
1:y:228:PHE:CD2	1:y:328:GLN:HB2	2.26	0.71
1:Q:228:PHE:CD2	1:Q:328:GLN:HB2	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:163:ASP:OD2	1:U:207:LYS:NZ	2.23	0.71
1:Y:163:ASP:OD2	1:Y:207:LYS:NZ	2.23	0.71
1:Z:228:PHE:CD2	1:Z:328:GLN:HB2	2.26	0.71
1:6:228:PHE:CD2	1:6:328:GLN:HB2	2.26	0.71
1:c:163:ASP:OD2	1:c:207:LYS:NZ	2.23	0.71
1:e:228:PHE:CD2	1:e:328:GLN:HB2	2.26	0.71
1:f:228:PHE:CD2	1:f:328:GLN:HB2	2.26	0.71
1:j:163:ASP:OD2	1:j:207:LYS:NZ	2.23	0.71
1:l:228:PHE:CD2	1:l:328:GLN:HB2	2.26	0.71
1:z:228:PHE:CD2	1:z:328:GLN:HB2	2.26	0.71
1:D:228:PHE:CD2	1:D:328:GLN:HB2	2.26	0.71
1:I:228:PHE:CD2	1:I:328:GLN:HB2	2.26	0.71
1:J:228:PHE:CD2	1:J:328:GLN:HB2	2.26	0.71
1:L:163:ASP:OD2	1:L:207:LYS:NZ	2.23	0.71
1:P:67:ARG:NH2	1:Q:205:PHE:O	2.21	0.71
1:7:228:PHE:CD2	1:7:328:GLN:HB2	2.26	0.71
1:h:163:ASP:OD2	1:h:207:LYS:NZ	2.23	0.71
1:m:163:ASP:OD2	1:m:207:LYS:NZ	2.23	0.71
1:F:260:VAL:CG1	1:F:328:GLN:CG	2.60	0.70
1:K:228:PHE:CD2	1:K:328:GLN:HB2	2.26	0.70
1:O:228:PHE:CD2	1:O:328:GLN:HB2	2.26	0.70
1:8:122:THR:CG2	1:8:123:LYS:N	2.48	0.70
1:g:228:PHE:CD2	1:g:328:GLN:HB2	2.26	0.70
1:h:228:PHE:CD2	1:h:328:GLN:HB2	2.26	0.70
1:p:260:VAL:CG1	1:p:328:GLN:CG	2.60	0.70
1:r:228:PHE:CD2	1:r:328:GLN:HB2	2.26	0.70
1:s:122:THR:CG2	1:s:123:LYS:N	2.48	0.70
1:y:163:ASP:OD2	1:y:207:LYS:NZ	2.23	0.70
1:2:228:PHE:CD2	1:2:328:GLN:HB2	2.26	0.70
1:H:228:PHE:CD2	1:H:328:GLN:HB2	2.26	0.70
1:M:228:PHE:CD2	1:M:328:GLN:HB2	2.26	0.70
1:P:260:VAL:CG1	1:P:328:GLN:CG	2.60	0.70
1:T:117:LYS:NZ	1:T:305:GLU:OE2	2.25	0.70
1:8:228:PHE:CD2	1:8:328:GLN:HB2	2.26	0.70
1:d:228:PHE:CD2	1:d:328:GLN:HB2	2.26	0.70
1:o:205:PHE:O	1:y:67:ARG:NH2	2.21	0.70
1:u:122:THR:CG2	1:u:123:LYS:H	1.93	0.70
1:v:228:PHE:CD2	1:v:328:GLN:HB2	2.26	0.70
1:2:163:ASP:OD2	1:2:207:LYS:NZ	2.23	0.70
1:K:163:ASP:OD2	1:K:207:LYS:NZ	2.23	0.70
1:N:228:PHE:CD2	1:N:328:GLN:HB2	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:163:ASP:OD2	1:P:207:LYS:NZ	2.23	0.70
1:Q:117:LYS:NZ	1:Q:305:GLU:OE2	2.25	0.70
1:S:228:PHE:CD2	1:S:328:GLN:HB2	2.26	0.70
1:8:117:LYS:NZ	1:8:305:GLU:OE2	2.25	0.70
1:6:163:ASP:OD2	1:6:207:LYS:NZ	2.23	0.70
1:4:228:PHE:CD2	1:4:328:GLN:HB2	2.26	0.70
1:3:228:PHE:CD2	1:3:328:GLN:HB2	2.26	0.70
1:h:117:LYS:NZ	1:h:305:GLU:OE2	2.25	0.70
1:i:228:PHE:CD2	1:i:328:GLN:HB2	2.26	0.70
1:k:163:ASP:OD2	1:k:207:LYS:NZ	2.23	0.70
1:o:117:LYS:NZ	1:o:305:GLU:OE2	2.25	0.70
1:x:117:LYS:NZ	1:x:305:GLU:OE2	2.25	0.70
1:1:228:PHE:CD2	1:1:328:GLN:HB2	2.26	0.70
1:A:117:LYS:NZ	1:A:305:GLU:OE2	2.25	0.70
1:A:122:THR:CG2	1:A:123:LYS:N	2.48	0.70
1:B:163:ASP:OD2	1:B:207:LYS:NZ	2.23	0.70
1:K:117:LYS:NZ	1:K:305:GLU:OE2	2.25	0.70
1:O:163:ASP:OD2	1:O:207:LYS:NZ	2.23	0.70
1:h:122:THR:CG2	1:h:123:LYS:N	2.48	0.70
1:s:117:LYS:NZ	1:s:305:GLU:OE2	2.25	0.70
1:L:117:LYS:NZ	1:L:305:GLU:OE2	2.25	0.70
1:M:122:THR:CG2	1:M:123:LYS:N	2.48	0.70
1:7:163:ASP:OD2	1:7:207:LYS:NZ	2.23	0.70
1:g:117:LYS:NZ	1:g:305:GLU:OE2	2.25	0.70
1:g:163:ASP:OD2	1:g:207:LYS:NZ	2.23	0.70
1:i:117:LYS:NZ	1:i:305:GLU:OE2	2.25	0.70
1:m:117:LYS:NZ	1:m:305:GLU:OE2	2.25	0.70
1:w:228:PHE:CD2	1:w:328:GLN:HB2	2.26	0.70
1:C:117:LYS:NZ	1:C:305:GLU:OE2	2.25	0.70
1:M:117:LYS:NZ	1:M:305:GLU:OE2	2.25	0.70
1:X:260:VAL:CG1	1:X:328:GLN:CG	2.60	0.70
1:j:117:LYS:NZ	1:j:305:GLU:OE2	2.25	0.70
1:S:117:LYS:NZ	1:S:305:GLU:OE2	2.25	0.70
1:V:163:ASP:OD2	1:V:207:LYS:NZ	2.23	0.70
1:X:117:LYS:NZ	1:X:305:GLU:OE2	2.25	0.70
1:5:228:PHE:CD2	1:5:328:GLN:HB2	2.26	0.70
1:q:117:LYS:NZ	1:q:305:GLU:OE2	2.25	0.70
1:t:228:PHE:CD2	1:t:328:GLN:HB2	2.26	0.70
1:v:117:LYS:NZ	1:v:305:GLU:OE2	2.25	0.70
1:y:260:VAL:CG1	1:y:328:GLN:CG	2.60	0.70
1:G:117:LYS:NZ	1:G:305:GLU:OE2	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:163:ASP:OD2	1:Q:207:LYS:NZ	2.23	0.70
1:U:228:PHE:CD2	1:U:328:GLN:HB2	2.26	0.70
1:V:228:PHE:CD2	1:V:328:GLN:HB2	2.26	0.70
1:a:163:ASP:OD2	1:a:207:LYS:NZ	2.23	0.70
1:b:117:LYS:NZ	1:b:305:GLU:OE2	2.25	0.70
1:p:117:LYS:NZ	1:p:305:GLU:OE2	2.25	0.70
1:F:117:LYS:NZ	1:F:305:GLU:OE2	2.25	0.70
1:I:117:LYS:NZ	1:I:305:GLU:OE2	2.25	0.70
1:6:205:PHE:O	1:m:67:ARG:NH2	2.21	0.70
1:a:228:PHE:CD2	1:a:328:GLN:HB2	2.26	0.70
1:d:122:THR:CG2	1:d:123:LYS:N	2.48	0.70
1:j:228:PHE:CD2	1:j:328:GLN:HB2	2.26	0.70
1:o:163:ASP:OD2	1:o:207:LYS:NZ	2.23	0.70
1:r:117:LYS:NZ	1:r:305:GLU:OE2	2.25	0.70
1:C:228:PHE:CD2	1:C:328:GLN:HB2	2.26	0.70
1:L:228:PHE:CD2	1:L:328:GLN:HB2	2.26	0.70
1:H:122:THR:CG2	1:H:123:LYS:N	2.48	0.69
1:l:122:THR:CG2	1:l:123:LYS:N	2.48	0.69
1:m:228:PHE:CD2	1:m:328:GLN:HB2	2.26	0.69
1:p:228:PHE:CD2	1:p:328:GLN:HB2	2.26	0.69
1:F:228:PHE:CD2	1:F:328:GLN:HB2	2.26	0.69
1:H:117:LYS:NZ	1:H:305:GLU:OE2	2.25	0.69
1:J:117:LYS:NZ	1:J:305:GLU:OE2	2.25	0.69
1:Z:117:LYS:NZ	1:Z:305:GLU:OE2	2.25	0.69
1:d:117:LYS:NZ	1:d:305:GLU:OE2	2.25	0.69
1:f:117:LYS:NZ	1:f:305:GLU:OE2	2.25	0.69
1:y:117:LYS:NZ	1:y:305:GLU:OE2	2.25	0.69
1:J:122:THR:CG2	1:J:123:LYS:N	2.48	0.69
1:O:117:LYS:NZ	1:O:305:GLU:OE2	2.25	0.69
1:P:117:LYS:NZ	1:P:305:GLU:OE2	2.25	0.69
1:R:228:PHE:CD2	1:R:328:GLN:HB2	2.26	0.69
1:X:228:PHE:CD2	1:X:328:GLN:HB2	2.26	0.69
1:k:117:LYS:NZ	1:k:305:GLU:OE2	2.25	0.69
1:l:117:LYS:NZ	1:l:305:GLU:OE2	2.25	0.69
1:r:163:ASP:OD2	1:r:207:LYS:NZ	2.23	0.69
1:2:117:LYS:NZ	1:2:305:GLU:OE2	2.25	0.69
1:E:117:LYS:NZ	1:E:305:GLU:OE2	2.25	0.69
1:I:163:ASP:OD2	1:I:207:LYS:NZ	2.23	0.69
1:W:117:LYS:NZ	1:W:305:GLU:OE2	2.25	0.69
1:A:228:PHE:CD2	1:A:328:GLN:HB2	2.26	0.69
1:B:117:LYS:NZ	1:B:305:GLU:OE2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:122:THR:CG2	1:Q:123:LYS:H	1.93	0.69
1:Z:122:THR:CG2	1:Z:123:LYS:N	2.48	0.69
1:b:228:PHE:CD2	1:b:328:GLN:HB2	2.26	0.69
1:n:117:LYS:NZ	1:n:305:GLU:OE2	2.25	0.69
1:s:228:PHE:CD2	1:s:328:GLN:HB2	2.26	0.69
1:u:228:PHE:CD2	1:u:328:GLN:HB2	2.26	0.69
1:R:205:PHE:O	1:V:67:ARG:NH2	2.21	0.69
1:X:270:GLY:O	1:X:272:TYR:CE2	2.46	0.69
1:8:270:GLY:O	1:8:272:TYR:CE2	2.46	0.69
1:e:117:LYS:NZ	1:e:305:GLU:OE2	2.25	0.69
1:B:270:GLY:O	1:B:272:TYR:CE2	2.46	0.69
1:Y:270:GLY:O	1:Y:272:TYR:CE2	2.46	0.69
1:3:270:GLY:O	1:3:272:TYR:CE2	2.46	0.69
1:b:270:GLY:O	1:b:272:TYR:CE2	2.46	0.69
1:c:270:GLY:O	1:c:272:TYR:CE2	2.46	0.69
1:f:122:THR:CG2	1:f:123:LYS:N	2.48	0.69
1:h:270:GLY:O	1:h:272:TYR:CE2	2.46	0.69
1:j:205:PHE:O	1:z:67:ARG:NH2	2.21	0.69
1:k:270:GLY:O	1:k:272:TYR:CE2	2.46	0.69
1:1:117:LYS:NZ	1:1:305:GLU:OE2	2.25	0.69
1:C:205:PHE:O	1:D:67:ARG:NH2	2.21	0.69
1:C:270:GLY:O	1:C:272:TYR:CE2	2.46	0.69
1:F:270:GLY:O	1:F:272:TYR:CE2	2.46	0.69
1:I:270:GLY:O	1:I:272:TYR:CE2	2.46	0.69
1:K:270:GLY:O	1:K:272:TYR:CE2	2.46	0.69
1:L:270:GLY:O	1:L:272:TYR:CE2	2.46	0.69
1:N:117:LYS:NZ	1:N:305:GLU:OE2	2.25	0.69
1:O:270:GLY:O	1:O:272:TYR:CE2	2.46	0.69
1:P:270:GLY:O	1:P:272:TYR:CE2	2.46	0.69
1:5:117:LYS:NZ	1:5:305:GLU:OE2	2.25	0.69
1:4:270:GLY:O	1:4:272:TYR:CE2	2.46	0.69
1:3:117:LYS:NZ	1:3:305:GLU:OE2	2.25	0.69
1:a:67:ARG:NH2	1:u:205:PHE:O	2.21	0.69
1:j:270:GLY:O	1:j:272:TYR:CE2	2.46	0.69
1:r:270:GLY:O	1:r:272:TYR:CE2	2.46	0.69
1:t:117:LYS:NZ	1:t:305:GLU:OE2	2.25	0.69
1:w:117:LYS:NZ	1:w:305:GLU:OE2	2.25	0.69
1:x:270:GLY:O	1:x:272:TYR:CE2	2.46	0.69
1:y:270:GLY:O	1:y:272:TYR:CE2	2.46	0.69
1:2:270:GLY:O	1:2:272:TYR:CE2	2.46	0.69
1:O:205:PHE:O	1:5:67:ARG:NH2	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:270:GLY:O	1:Q:272:TYR:CE2	2.46	0.69
1:T:270:GLY:O	1:T:272:TYR:CE2	2.46	0.69
1:U:117:LYS:NZ	1:U:305:GLU:OE2	2.25	0.69
1:6:117:LYS:NZ	1:6:305:GLU:OE2	2.25	0.69
1:4:117:LYS:NZ	1:4:305:GLU:OE2	2.25	0.69
1:a:117:LYS:NZ	1:a:305:GLU:OE2	2.25	0.69
1:g:270:GLY:O	1:g:272:TYR:CE2	2.46	0.69
1:o:122:THR:CG2	1:o:123:LYS:H	1.93	0.69
1:o:270:GLY:O	1:o:272:TYR:CE2	2.46	0.69
1:W:270:GLY:O	1:W:272:TYR:CE2	2.46	0.69
1:Z:270:GLY:O	1:Z:272:TYR:CE2	2.46	0.69
1:7:117:LYS:NZ	1:7:305:GLU:OE2	2.25	0.69
1:f:270:GLY:O	1:f:272:TYR:CE2	2.46	0.69
1:m:270:GLY:O	1:m:272:TYR:CE2	2.46	0.69
1:n:270:GLY:O	1:n:272:TYR:CE2	2.46	0.69
1:p:270:GLY:O	1:p:272:TYR:CE2	2.46	0.69
1:u:117:LYS:NZ	1:u:305:GLU:OE2	2.25	0.69
1:w:67:ARG:NH2	1:2:205:PHE:O	2.22	0.69
1:1:270:GLY:O	1:1:272:TYR:CE2	2.46	0.69
1:E:270:GLY:O	1:E:272:TYR:CE2	2.46	0.68
1:L:67:ARG:NH2	1:7:205:PHE:O	2.22	0.68
1:N:270:GLY:O	1:N:272:TYR:CE2	2.46	0.68
1:R:117:LYS:NZ	1:R:305:GLU:OE2	2.25	0.68
1:R:270:GLY:O	1:R:272:TYR:CE2	2.46	0.68
1:V:122:THR:CG2	1:V:123:LYS:N	2.48	0.68
1:X:122:THR:CG2	1:X:123:LYS:H	1.93	0.68
1:7:270:GLY:O	1:7:272:TYR:CE2	2.46	0.68
1:c:117:LYS:NZ	1:c:305:GLU:OE2	2.25	0.68
1:e:270:GLY:O	1:e:272:TYR:CE2	2.46	0.68
1:u:270:GLY:O	1:u:272:TYR:CE2	2.46	0.68
1:D:117:LYS:NZ	1:D:305:GLU:OE2	2.25	0.68
1:U:270:GLY:O	1:U:272:TYR:CE2	2.46	0.68
1:V:117:LYS:NZ	1:V:305:GLU:OE2	2.25	0.68
1:a:122:THR:CG2	1:a:123:LYS:N	2.48	0.68
1:t:270:GLY:O	1:t:272:TYR:CE2	2.46	0.68
1:z:117:LYS:NZ	1:z:305:GLU:OE2	2.25	0.68
1:D:270:GLY:O	1:D:272:TYR:CE2	2.46	0.68
1:J:270:GLY:O	1:J:272:TYR:CE2	2.46	0.68
1:Y:117:LYS:NZ	1:Y:305:GLU:OE2	2.25	0.68
1:6:270:GLY:O	1:6:272:TYR:CE2	2.46	0.68
1:d:270:GLY:O	1:d:272:TYR:CE2	2.46	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:270:GLY:O	1:H:272:TYR:CE2	2.46	0.68
1:l:270:GLY:O	1:l:272:TYR:CE2	2.46	0.68
1:q:270:GLY:O	1:q:272:TYR:CE2	2.46	0.68
1:v:270:GLY:O	1:v:272:TYR:CE2	2.46	0.68
1:z:270:GLY:O	1:z:272:TYR:CE2	2.46	0.68
1:2:75:LEU:HD12	1:2:79:GLU:HG3	1.76	0.68
1:A:75:LEU:HD12	1:A:79:GLU:HG3	1.76	0.68
1:O:75:LEU:HD12	1:O:79:GLU:HG3	1.76	0.68
1:S:270:GLY:O	1:S:272:TYR:CE2	2.46	0.68
1:U:75:LEU:HD12	1:U:79:GLU:HG3	1.76	0.68
1:8:75:LEU:HD12	1:8:79:GLU:HG3	1.76	0.68
1:h:75:LEU:HD12	1:h:79:GLU:HG3	1.76	0.68
1:t:75:LEU:HD12	1:t:79:GLU:HG3	1.76	0.68
1:G:270:GLY:O	1:G:272:TYR:CE2	2.46	0.68
1:M:270:GLY:O	1:M:272:TYR:CE2	2.46	0.68
1:b:122:THR:CG2	1:b:123:LYS:H	1.93	0.68
1:s:75:LEU:HD12	1:s:79:GLU:HG3	1.76	0.68
1:S:75:LEU:HD12	1:S:79:GLU:HG3	1.76	0.68
1:X:75:LEU:HD12	1:X:79:GLU:HG3	1.76	0.68
1:7:75:LEU:HD12	1:7:79:GLU:HG3	1.76	0.68
1:b:75:LEU:HD12	1:b:79:GLU:HG3	1.76	0.68
1:i:270:GLY:O	1:i:272:TYR:CE2	2.46	0.68
1:v:75:LEU:HD12	1:v:79:GLU:HG3	1.76	0.68
1:1:75:LEU:HD12	1:1:79:GLU:HG3	1.76	0.68
1:A:270:GLY:O	1:A:272:TYR:CE2	2.46	0.68
1:C:75:LEU:HD12	1:C:79:GLU:HG3	1.76	0.68
1:H:75:LEU:HD12	1:H:79:GLU:HG3	1.76	0.68
1:N:75:LEU:HD12	1:N:79:GLU:HG3	1.76	0.68
1:d:75:LEU:HD12	1:d:79:GLU:HG3	1.76	0.68
1:j:75:LEU:HD12	1:j:79:GLU:HG3	1.76	0.68
1:m:75:LEU:HD12	1:m:79:GLU:HG3	1.76	0.68
1:s:270:GLY:O	1:s:272:TYR:CE2	2.46	0.68
1:6:75:LEU:HD12	1:6:79:GLU:HG3	1.76	0.68
1:L:75:LEU:HD12	1:L:79:GLU:HG3	1.76	0.67
1:V:270:GLY:O	1:V:272:TYR:CE2	2.46	0.67
1:5:75:LEU:HD12	1:5:79:GLU:HG3	1.76	0.67
1:5:270:GLY:O	1:5:272:TYR:CE2	2.46	0.67
1:E:75:LEU:HD12	1:E:79:GLU:HG3	1.76	0.67
1:Q:75:LEU:HD12	1:Q:79:GLU:HG3	1.76	0.67
1:Y:75:LEU:HD12	1:Y:79:GLU:HG3	1.76	0.67
1:7:303:LEU:HD22	1:6:112:MET:SD	2.34	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:270:GLY:O	1:a:272:TYR:CE2	2.46	0.67
1:w:75:LEU:HD12	1:w:79:GLU:HG3	1.76	0.67
1:w:270:GLY:O	1:w:272:TYR:CE2	2.46	0.67
1:M:205:PHE:O	1:6:67:ARG:NH2	2.21	0.67
1:c:75:LEU:HD12	1:c:79:GLU:HG3	1.76	0.67
1:g:75:LEU:HD12	1:g:79:GLU:HG3	1.76	0.67
1:n:75:LEU:HD12	1:n:79:GLU:HG3	1.76	0.67
1:o:75:LEU:HD12	1:o:79:GLU:HG3	1.76	0.67
1:L:290:GLN:HE22	1:7:276:PRO:HB2	1.59	0.67
1:S:290:GLN:HE22	1:5:276:PRO:HB2	1.59	0.67
1:f:205:PHE:O	1:h:67:ARG:NH2	2.22	0.67
1:v:290:GLN:HE22	1:w:276:PRO:HB2	1.59	0.67
1:K:75:LEU:HD12	1:K:79:GLU:HG3	1.76	0.67
1:j:239:VAL:HG13	1:j:268:MET:HE1	1.77	0.67
1:C:239:VAL:HG13	1:C:268:MET:HE1	1.77	0.67
1:e:276:PRO:HB2	1:q:290:GLN:HE22	1.60	0.67
1:q:83:ILE:HD11	1:q:273:LEU:HG	1.77	0.67
1:1:122:THR:CG2	1:1:123:LYS:N	2.48	0.67
1:D:75:LEU:HD12	1:D:79:GLU:HG3	1.76	0.67
1:G:83:ILE:HD11	1:G:273:LEU:HG	1.77	0.67
1:K:83:ILE:HD11	1:K:273:LEU:HG	1.77	0.67
1:N:83:ILE:HD11	1:N:273:LEU:HG	1.77	0.67
1:Z:75:LEU:HD12	1:Z:79:GLU:HG3	1.76	0.67
1:5:239:VAL:HG13	1:5:268:MET:HE1	1.77	0.67
1:f:75:LEU:HD12	1:f:79:GLU:HG3	1.76	0.67
1:g:83:ILE:HD11	1:g:273:LEU:HG	1.77	0.67
1:v:239:VAL:HG13	1:v:268:MET:HE1	1.77	0.67
1:1:83:ILE:HD11	1:1:273:LEU:HG	1.77	0.67
1:G:290:GLN:HE22	1:W:276:PRO:HB2	1.60	0.67
1:N:122:THR:CG2	1:N:123:LYS:N	2.48	0.67
1:S:239:VAL:HG13	1:S:268:MET:HE1	1.77	0.67
1:V:75:LEU:HD12	1:V:79:GLU:HG3	1.76	0.67
1:V:243:ASN:HD22	1:V:246:MET:CG	2.08	0.67
1:Z:205:PHE:O	1:8:67:ARG:NH2	2.22	0.67
1:7:83:ILE:HD11	1:7:273:LEU:HG	1.77	0.67
1:3:276:PRO:HB2	1:t:290:GLN:HE22	1.60	0.67
1:r:75:LEU:HD12	1:r:79:GLU:HG3	1.76	0.67
1:w:239:VAL:HG13	1:w:268:MET:HE1	1.77	0.67
1:B:75:LEU:HD12	1:B:79:GLU:HG3	1.76	0.67
1:B:83:ILE:HD11	1:B:273:LEU:HG	1.77	0.67
1:J:290:GLN:HE22	1:8:276:PRO:HB2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:83:ILE:HD11	1:R:273:LEU:HG	1.77	0.67
1:6:83:ILE:HD11	1:6:273:LEU:HG	1.77	0.67
1:4:75:LEU:HD12	1:4:79:GLU:HG3	1.76	0.67
1:3:75:LEU:HD12	1:3:79:GLU:HG3	1.76	0.67
1:a:75:LEU:HD12	1:a:79:GLU:HG3	1.76	0.67
1:a:83:ILE:HD11	1:a:273:LEU:HG	1.77	0.67
1:e:75:LEU:HD12	1:e:79:GLU:HG3	1.76	0.67
1:h:276:PRO:HB2	1:l:290:GLN:HE22	1.59	0.67
1:k:83:ILE:HD11	1:k:273:LEU:HG	1.77	0.67
1:u:83:ILE:HD11	1:u:273:LEU:HG	1.77	0.67
1:D:276:PRO:HB2	1:E:290:GLN:HE22	1.60	0.67
1:T:276:PRO:HB2	1:c:290:GLN:HE22	1.60	0.67
1:V:83:ILE:HD11	1:V:273:LEU:HG	1.77	0.67
1:7:290:GLN:HE22	1:i:276:PRO:HB2	1.60	0.67
1:a:243:ASN:HD22	1:a:246:MET:CG	2.08	0.67
1:a:290:GLN:HE22	1:u:276:PRO:HB2	1.60	0.67
1:e:83:ILE:HD11	1:e:273:LEU:HG	1.77	0.67
1:n:290:GLN:HE22	1:z:276:PRO:HB2	1.60	0.67
1:z:75:LEU:HD12	1:z:79:GLU:HG3	1.76	0.67
1:1:243:ASN:HD22	1:1:246:MET:CG	2.08	0.67
1:C:83:ILE:HD11	1:C:273:LEU:HG	1.77	0.66
1:H:83:ILE:HD11	1:H:273:LEU:HG	1.77	0.66
1:H:243:ASN:HD22	1:H:246:MET:CG	2.08	0.66
1:I:75:LEU:HD12	1:I:79:GLU:HG3	1.76	0.66
1:N:243:ASN:HD22	1:N:246:MET:CG	2.08	0.66
1:O:83:ILE:HD11	1:O:273:LEU:HG	1.77	0.66
1:R:276:PRO:HB2	1:V:290:GLN:HE22	1.60	0.66
1:U:290:GLN:HE22	1:4:276:PRO:HB2	1.60	0.66
1:W:75:LEU:HD12	1:W:79:GLU:HG3	1.76	0.66
1:W:83:ILE:HD11	1:W:273:LEU:HG	1.77	0.66
1:d:243:ASN:HD22	1:d:246:MET:CG	2.08	0.66
1:k:75:LEU:HD12	1:k:79:GLU:HG3	1.76	0.66
1:p:290:GLN:HE22	1:q:276:PRO:HB2	1.59	0.66
1:y:276:PRO:HB2	1:2:290:GLN:HE22	1.60	0.66
1:D:239:VAL:HG13	1:D:268:MET:HE1	1.77	0.66
1:O:239:VAL:HG13	1:O:268:MET:HE1	1.77	0.66
1:O:290:GLN:HE22	1:P:276:PRO:HB2	1.60	0.66
1:Y:239:VAL:HG13	1:Y:268:MET:HE1	1.77	0.66
1:Y:290:GLN:HE22	1:x:276:PRO:HB2	1.60	0.66
1:8:239:VAL:HG13	1:8:268:MET:HE1	1.77	0.66
1:d:83:ILE:HD11	1:d:273:LEU:HG	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:276:PRO:HB2	1:h:290:GLN:HE22	1.60	0.66
1:k:290:GLN:HE22	1:s:276:PRO:HB2	1.60	0.66
1:l:239:VAL:HG13	1:l:268:MET:HE1	1.77	0.66
1:n:243:ASN:HD22	1:n:246:MET:CG	2.08	0.66
1:w:83:ILE:HD11	1:w:273:LEU:HG	1.77	0.66
1:z:239:VAL:HG13	1:z:268:MET:HE1	1.77	0.66
1:2:83:ILE:HD11	1:2:273:LEU:HG	1.77	0.66
1:B:239:VAL:HG13	1:B:268:MET:HE1	1.77	0.66
1:J:239:VAL:HG13	1:J:268:MET:HE1	1.77	0.66
1:M:276:PRO:HB2	1:6:290:GLN:HE22	1.60	0.66
1:M:290:GLN:HE22	1:N:276:PRO:HB2	1.60	0.66
1:X:239:VAL:HG13	1:X:268:MET:HE1	1.77	0.66
1:h:239:VAL:HG13	1:h:268:MET:HE1	1.77	0.66
1:j:83:ILE:HD11	1:j:273:LEU:HG	1.77	0.66
1:j:276:PRO:HB2	1:z:290:GLN:HE22	1.60	0.66
1:C:276:PRO:HB2	1:D:290:GLN:HE22	1.60	0.66
1:D:83:ILE:HD11	1:D:273:LEU:HG	1.77	0.66
1:E:243:ASN:HD22	1:E:246:MET:CG	2.08	0.66
1:Z:83:ILE:HD11	1:Z:273:LEU:HG	1.77	0.66
1:Z:276:PRO:HB2	1:8:290:GLN:HE22	1.61	0.66
1:5:303:LEU:HD22	1:h:112:MET:SD	2.36	0.66
1:3:239:VAL:HG13	1:3:268:MET:HE1	1.77	0.66
1:c:239:VAL:HG13	1:c:268:MET:HE1	1.77	0.66
1:f:83:ILE:HD11	1:f:273:LEU:HG	1.77	0.66
1:i:75:LEU:HD12	1:i:79:GLU:HG3	1.76	0.66
1:i:290:GLN:HE22	1:1:276:PRO:HB2	1.60	0.66
1:k:239:VAL:HG13	1:k:268:MET:HE1	1.77	0.66
1:z:83:ILE:HD11	1:z:273:LEU:HG	1.77	0.66
1:2:239:VAL:HG13	1:2:268:MET:HE1	1.77	0.66
1:A:276:PRO:HB2	1:B:290:GLN:HE22	1.60	0.66
1:A:290:GLN:HE22	1:E:276:PRO:HB2	1.59	0.66
1:F:290:GLN:HE22	1:G:276:PRO:HB2	1.60	0.66
1:G:239:VAL:HG13	1:G:268:MET:HE1	1.77	0.66
1:K:290:GLN:HE22	1:L:276:PRO:HB2	1.60	0.66
1:M:75:LEU:HD12	1:M:79:GLU:HG3	1.76	0.66
1:M:243:ASN:HD22	1:M:246:MET:CG	2.08	0.66
1:N:290:GLN:HE22	1:g:276:PRO:HB2	1.60	0.66
1:P:83:ILE:HD11	1:P:273:LEU:HG	1.77	0.66
1:8:112:MET:SD	1:w:303:LEU:HD22	2.36	0.66
1:6:276:PRO:HB2	1:m:290:GLN:HE22	1.60	0.66
1:5:83:ILE:HD11	1:5:273:LEU:HG	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:239:VAL:HG13	1:b:268:MET:HE1	1.77	0.66
1:c:83:ILE:HD11	1:c:273:LEU:HG	1.77	0.66
1:i:83:ILE:HD11	1:i:273:LEU:HG	1.77	0.66
1:i:243:ASN:HD22	1:i:246:MET:CG	2.08	0.66
1:p:75:LEU:HD12	1:p:79:GLU:HG3	1.76	0.66
1:F:75:LEU:HD12	1:F:79:GLU:HG3	1.76	0.66
1:Q:243:ASN:HD22	1:Q:246:MET:CG	2.08	0.66
1:Y:83:ILE:HD11	1:Y:273:LEU:HG	1.77	0.66
1:4:239:VAL:HG13	1:4:268:MET:HE1	1.77	0.66
1:d:303:LEU:HD22	1:q:112:MET:SD	2.36	0.66
1:m:239:VAL:HG13	1:m:268:MET:HE1	1.77	0.66
1:K:276:PRO:HB2	1:1:290:GLN:HE22	1.60	0.66
1:T:75:LEU:HD12	1:T:79:GLU:HG3	1.76	0.66
1:4:290:GLN:HE22	1:b:276:PRO:HB2	1.60	0.66
1:g:290:GLN:HE22	1:m:276:PRO:HB2	1.60	0.66
1:q:75:LEU:HD12	1:q:79:GLU:HG3	1.76	0.66
1:x:75:LEU:HD12	1:x:79:GLU:HG3	1.76	0.66
1:y:83:ILE:HD11	1:y:273:LEU:HG	1.77	0.66
1:G:112:MET:SD	1:H:303:LEU:HD22	2.36	0.66
1:M:83:ILE:HD11	1:M:273:LEU:HG	1.77	0.66
1:N:239:VAL:HG13	1:N:268:MET:HE1	1.77	0.66
1:Q:83:ILE:HD11	1:Q:273:LEU:HG	1.77	0.66
1:e:239:VAL:HG13	1:e:268:MET:HE1	1.77	0.66
1:o:290:GLN:HE22	1:v:276:PRO:HB2	1.60	0.66
1:v:243:ASN:HD22	1:v:246:MET:CG	2.08	0.66
1:G:75:LEU:HD12	1:G:79:GLU:HG3	1.76	0.66
1:L:239:VAL:HG13	1:L:268:MET:HE1	1.77	0.66
1:R:75:LEU:HD12	1:R:79:GLU:HG3	1.76	0.66
1:S:243:ASN:HD22	1:S:246:MET:CG	2.08	0.66
1:7:239:VAL:HG13	1:7:268:MET:HE1	1.77	0.66
1:6:243:ASN:HD22	1:6:246:MET:CG	2.08	0.66
1:n:239:VAL:HG13	1:n:268:MET:HE1	1.77	0.66
1:o:83:ILE:HD11	1:o:273:LEU:HG	1.77	0.66
1:q:239:VAL:HG13	1:q:268:MET:HE1	1.77	0.66
1:1:239:VAL:HG13	1:1:268:MET:HE1	1.77	0.66
1:A:83:ILE:HD11	1:A:273:LEU:HG	1.77	0.66
1:A:208:ASN:ND2	1:B:67:ARG:HH12	1.94	0.66
1:E:239:VAL:HG13	1:E:268:MET:HE1	1.77	0.66
1:P:75:LEU:HD12	1:P:79:GLU:HG3	1.76	0.66
1:T:83:ILE:HD11	1:T:273:LEU:HG	1.77	0.66
1:W:239:VAL:HG13	1:W:268:MET:HE1	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:239:VAL:HG13	1:Z:268:MET:HE1	1.77	0.66
1:u:75:LEU:HD12	1:u:79:GLU:HG3	1.76	0.66
1:x:83:ILE:HD11	1:x:273:LEU:HG	1.77	0.66
1:F:83:ILE:HD11	1:F:273:LEU:HG	1.77	0.65
1:F:276:PRO:HB2	1:R:290:GLN:HE22	1.60	0.65
1:H:276:PRO:HB2	1:Z:290:GLN:HE22	1.60	0.65
1:Q:290:GLN:HE22	1:S:276:PRO:HB2	1.60	0.65
1:5:243:ASN:HD22	1:5:246:MET:CG	2.08	0.65
1:4:83:ILE:HD11	1:4:273:LEU:HG	1.77	0.65
1:g:239:VAL:HG13	1:g:268:MET:HE1	1.77	0.65
1:h:83:ILE:HD11	1:h:273:LEU:HG	1.77	0.65
1:i:112:MET:SD	1:z:303:LEU:HD22	2.36	0.65
1:p:83:ILE:HD11	1:p:273:LEU:HG	1.77	0.65
1:s:83:ILE:HD11	1:s:273:LEU:HG	1.77	0.65
1:w:243:ASN:HD22	1:w:246:MET:CG	2.08	0.65
1:y:75:LEU:HD12	1:y:79:GLU:HG3	1.76	0.65
1:B:276:PRO:HB2	1:C:290:GLN:HE22	1.60	0.65
1:D:303:LEU:HD22	1:M:112:MET:SD	2.36	0.65
1:K:239:VAL:HG13	1:K:268:MET:HE1	1.77	0.65
1:S:303:LEU:HD22	1:T:112:MET:SD	2.37	0.65
1:V:276:PRO:HB2	1:W:290:GLN:HE22	1.60	0.65
1:Y:303:LEU:HD22	1:Z:112:MET:SD	2.37	0.65
1:7:243:ASN:HD22	1:7:246:MET:CG	2.08	0.65
1:3:83:ILE:HD11	1:3:273:LEU:HG	1.77	0.65
1:c:303:LEU:HD22	1:f:112:MET:SD	2.37	0.65
1:f:208:ASN:ND2	1:h:67:ARG:HH12	1.94	0.65
1:f:239:VAL:HG13	1:f:268:MET:HE1	1.77	0.65
1:j:290:GLN:HE22	1:k:276:PRO:HB2	1.60	0.65
1:l:75:LEU:HD12	1:l:79:GLU:HG3	1.76	0.65
1:p:112:MET:SD	1:s:303:LEU:HD22	2.37	0.65
1:v:303:LEU:HD22	1:x:112:MET:SD	2.37	0.65
1:A:303:LEU:HD22	1:F:112:MET:SD	2.37	0.65
1:I:83:ILE:HD11	1:I:273:LEU:HG	1.77	0.65
1:X:276:PRO:HB2	1:3:290:GLN:HE22	1.60	0.65
1:Z:208:ASN:ND2	1:8:67:ARG:HH12	1.95	0.65
1:8:83:ILE:HD11	1:8:273:LEU:HG	1.77	0.65
1:4:112:MET:SD	1:3:303:LEU:HD22	2.37	0.65
1:k:67:ARG:HH12	1:s:208:ASN:ND2	1.94	0.65
1:n:276:PRO:HB2	1:s:290:GLN:HE22	1.60	0.65
1:C:243:ASN:HD22	1:C:246:MET:CG	2.08	0.65
1:F:239:VAL:HG13	1:F:268:MET:HE1	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:67:ARG:HH12	1:8:208:ASN:ND2	1.95	0.65
1:J:75:LEU:HD12	1:J:79:GLU:HG3	1.76	0.65
1:O:276:PRO:HB2	1:5:290:GLN:HE22	1.61	0.65
1:6:239:VAL:HG13	1:6:268:MET:HE1	1.77	0.65
1:a:239:VAL:HG13	1:a:268:MET:HE1	1.77	0.65
1:d:276:PRO:HB2	1:f:290:GLN:HE22	1.60	0.65
1:j:243:ASN:HD22	1:j:246:MET:CG	2.08	0.65
1:m:83:ILE:HD11	1:m:273:LEU:HG	1.77	0.65
1:q:243:ASN:HD22	1:q:246:MET:CG	2.08	0.65
1:r:83:ILE:HD11	1:r:273:LEU:HG	1.77	0.65
1:E:83:ILE:HD11	1:E:273:LEU:HG	1.77	0.65
1:J:83:ILE:HD11	1:J:273:LEU:HG	1.77	0.65
1:U:83:ILE:HD11	1:U:273:LEU:HG	1.77	0.65
1:4:67:ARG:HH12	1:b:208:ASN:ND2	1.95	0.65
1:4:303:LEU:HD22	1:3:112:MET:SD	2.37	0.65
1:a:276:PRO:HB2	1:e:290:GLN:HE22	1.60	0.65
1:b:67:ARG:HH12	1:c:208:ASN:ND2	1.95	0.65
1:h:208:ASN:ND2	1:l:67:ARG:HH12	1.95	0.65
1:p:239:VAL:HG13	1:p:268:MET:HE1	1.77	0.65
1:w:290:GLN:HE22	1:2:276:PRO:HB2	1.61	0.65
1:B:324:SER:O	1:B:328:GLN:NE2	2.30	0.65
1:G:67:ARG:HH12	1:W:208:ASN:ND2	1.95	0.65
1:G:243:ASN:HD22	1:G:246:MET:CG	2.08	0.65
1:K:324:SER:O	1:K:328:GLN:NE2	2.30	0.65
1:V:239:VAL:HG13	1:V:268:MET:HE1	1.77	0.65
1:X:67:ARG:HH12	1:Y:208:ASN:ND2	1.95	0.65
1:8:324:SER:O	1:8:328:GLN:NE2	2.30	0.65
1:e:122:THR:CG2	1:e:123:LYS:N	2.48	0.65
1:e:208:ASN:ND2	1:q:67:ARG:HH12	1.95	0.65
1:g:324:SER:O	1:g:328:GLN:NE2	2.30	0.65
1:h:324:SER:O	1:h:328:GLN:NE2	2.30	0.65
1:k:324:SER:O	1:k:328:GLN:NE2	2.30	0.65
1:n:83:ILE:HD11	1:n:273:LEU:HG	1.77	0.65
1:n:324:SER:O	1:n:328:GLN:NE2	2.30	0.65
1:o:67:ARG:HH12	1:v:208:ASN:ND2	1.94	0.65
1:t:83:ILE:HD11	1:t:273:LEU:HG	1.77	0.65
1:u:239:VAL:HG13	1:u:268:MET:HE1	1.77	0.65
1:A:243:ASN:HD22	1:A:246:MET:CG	2.08	0.65
1:E:122:THR:CG2	1:E:123:LYS:H	1.93	0.65
1:E:324:SER:O	1:E:328:GLN:NE2	2.30	0.65
1:L:83:ILE:HD11	1:L:273:LEU:HG	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:324:SER:O	1:O:328:GLN:NE2	2.30	0.65
1:Q:67:ARG:HH12	1:S:208:ASN:ND2	1.94	0.65
1:S:324:SER:O	1:S:328:GLN:NE2	2.30	0.65
1:U:112:MET:SD	1:V:303:LEU:HD22	2.37	0.65
1:W:122:THR:CG2	1:W:123:LYS:N	2.48	0.65
1:Z:324:SER:O	1:Z:328:GLN:NE2	2.30	0.65
1:a:303:LEU:HD22	1:t:112:MET:SD	2.37	0.65
1:f:324:SER:O	1:f:328:GLN:NE2	2.30	0.65
1:v:324:SER:O	1:v:328:GLN:NE2	2.30	0.65
1:x:239:VAL:HG13	1:x:268:MET:HE1	1.77	0.65
1:y:239:VAL:HG13	1:y:268:MET:HE1	1.77	0.65
1:2:324:SER:O	1:2:328:GLN:NE2	2.30	0.65
1:B:208:ASN:ND2	1:C:67:ARG:HH12	1.95	0.65
1:L:67:ARG:HH12	1:7:208:ASN:ND2	1.93	0.65
1:L:324:SER:O	1:L:328:GLN:NE2	2.30	0.65
1:N:112:MET:SD	1:O:303:LEU:HD22	2.37	0.65
1:P:290:GLN:HE22	1:Q:276:PRO:HB2	1.60	0.65
1:Q:239:VAL:HG13	1:Q:268:MET:HE1	1.77	0.65
1:Q:324:SER:O	1:Q:328:GLN:NE2	2.30	0.65
1:R:239:VAL:HG13	1:R:268:MET:HE1	1.77	0.65
1:U:239:VAL:HG13	1:U:268:MET:HE1	1.77	0.65
1:V:324:SER:O	1:V:328:GLN:NE2	2.30	0.65
1:3:208:ASN:ND2	1:t:67:ARG:HH12	1.94	0.65
1:a:324:SER:O	1:a:328:GLN:NE2	2.30	0.65
1:e:324:SER:O	1:e:328:GLN:NE2	2.30	0.65
1:l:83:ILE:HD11	1:l:273:LEU:HG	1.77	0.65
1:o:239:VAL:HG13	1:o:268:MET:HE1	1.77	0.65
1:r:239:VAL:HG13	1:r:268:MET:HE1	1.77	0.65
1:s:243:ASN:HD22	1:s:246:MET:CG	2.08	0.65
1:v:83:ILE:HD11	1:v:273:LEU:HG	1.77	0.65
1:I:290:GLN:HE22	1:J:276:PRO:HB2	1.60	0.65
1:P:239:VAL:HG13	1:P:268:MET:HE1	1.77	0.65
1:T:67:ARG:HH12	1:U:208:ASN:ND2	1.95	0.65
1:T:290:GLN:HE22	1:U:276:PRO:HB2	1.60	0.65
1:W:324:SER:O	1:W:328:GLN:NE2	2.30	0.65
1:3:324:SER:O	1:3:328:GLN:NE2	2.30	0.65
1:b:112:MET:SD	1:e:303:LEU:HD22	2.36	0.65
1:j:324:SER:O	1:j:328:GLN:NE2	2.30	0.65
1:m:324:SER:O	1:m:328:GLN:NE2	2.30	0.65
1:o:276:PRO:HB2	1:y:290:GLN:HE22	1.60	0.65
1:o:324:SER:O	1:o:328:GLN:NE2	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:276:PRO:HB2	1:u:290:GLN:HE22	1.61	0.65
1:t:208:ASN:ND2	1:x:67:ARG:HH12	1.95	0.65
1:t:239:VAL:HG13	1:t:268:MET:HE1	1.77	0.65
1:1:112:MET:SD	1:2:303:LEU:HD22	2.37	0.65
1:B:303:LEU:HD22	1:I:112:MET:SD	2.37	0.65
1:C:112:MET:SD	1:L:303:LEU:HD22	2.37	0.65
1:C:324:SER:O	1:C:328:GLN:NE2	2.30	0.65
1:E:112:MET:SD	1:P:303:LEU:HD22	2.36	0.65
1:H:324:SER:O	1:H:328:GLN:NE2	2.30	0.65
1:I:239:VAL:HG13	1:I:268:MET:HE1	1.77	0.65
1:N:324:SER:O	1:N:328:GLN:NE2	2.30	0.65
1:S:83:ILE:HD11	1:S:273:LEU:HG	1.77	0.65
1:T:239:VAL:HG13	1:T:268:MET:HE1	1.77	0.65
1:U:303:LEU:HD22	1:V:112:MET:SD	2.37	0.65
1:W:112:MET:SD	1:X:303:LEU:HD22	2.37	0.65
1:X:83:ILE:HD11	1:X:273:LEU:HG	1.77	0.65
1:X:208:ASN:ND2	1:3:67:ARG:HH12	1.95	0.65
1:4:324:SER:O	1:4:328:GLN:NE2	2.30	0.65
1:d:290:GLN:HE22	1:r:276:PRO:HB2	1.60	0.65
1:j:67:ARG:HH12	1:k:208:ASN:ND2	1.95	0.65
1:j:112:MET:SD	1:m:303:LEU:HD22	2.36	0.65
1:k:303:LEU:HD22	1:r:112:MET:SD	2.37	0.65
1:n:112:MET:SD	1:y:303:LEU:HD22	2.36	0.65
1:t:276:PRO:HB2	1:x:290:GLN:HE22	1.60	0.65
1:G:324:SER:O	1:G:328:GLN:NE2	2.30	0.64
1:H:290:GLN:HE22	1:I:276:PRO:HB2	1.60	0.64
1:K:243:ASN:HD22	1:K:246:MET:CG	2.08	0.64
1:L:243:ASN:HD22	1:L:246:MET:CG	2.08	0.64
1:Q:303:LEU:HD22	1:R:112:MET:SD	2.37	0.64
1:T:208:ASN:ND2	1:c:67:ARG:HH12	1.95	0.64
1:U:67:ARG:HH12	1:4:208:ASN:ND2	1.95	0.64
1:W:303:LEU:HD22	1:X:112:MET:SD	2.37	0.64
1:X:324:SER:O	1:X:328:GLN:NE2	2.30	0.64
1:a:112:MET:SD	1:t:303:LEU:HD22	2.37	0.64
1:b:83:ILE:HD11	1:b:273:LEU:HG	1.77	0.64
1:b:290:GLN:HE22	1:c:276:PRO:HB2	1.60	0.64
1:d:324:SER:O	1:d:328:GLN:NE2	2.30	0.64
1:l:276:PRO:HB2	1:r:290:GLN:HE22	1.60	0.64
1:m:243:ASN:HD22	1:m:246:MET:CG	2.08	0.64
1:o:303:LEU:HD22	1:u:112:MET:SD	2.37	0.64
1:r:243:ASN:HD22	1:r:246:MET:CG	2.08	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:324:SER:O	1:t:328:GLN:NE2	2.30	0.64
1:1:324:SER:O	1:1:328:GLN:NE2	2.30	0.64
1:A:239:VAL:HG13	1:A:268:MET:HE1	1.77	0.64
1:C:303:LEU:HD22	1:L:112:MET:SD	2.37	0.64
1:D:112:MET:SD	1:M:303:LEU:HD22	2.37	0.64
1:N:303:LEU:HD22	1:O:112:MET:SD	2.37	0.64
1:R:208:ASN:ND2	1:V:67:ARG:HH12	1.95	0.64
1:T:324:SER:O	1:T:328:GLN:NE2	2.30	0.64
1:U:324:SER:O	1:U:328:GLN:NE2	2.30	0.64
1:Y:67:ARG:HH12	1:x:208:ASN:ND2	1.95	0.64
1:Y:122:THR:CG2	1:Y:123:LYS:H	1.93	0.64
1:5:324:SER:O	1:5:328:GLN:NE2	2.30	0.64
1:a:67:ARG:HH12	1:u:208:ASN:ND2	1.95	0.64
1:b:324:SER:O	1:b:328:GLN:NE2	2.30	0.64
1:c:324:SER:O	1:c:328:GLN:NE2	2.30	0.64
1:j:303:LEU:HD22	1:m:112:MET:SD	2.37	0.64
1:n:122:THR:CG2	1:n:123:LYS:H	1.93	0.64
1:p:67:ARG:HH12	1:q:208:ASN:ND2	1.94	0.64
1:q:324:SER:O	1:q:328:GLN:NE2	2.30	0.64
1:s:239:VAL:HG13	1:s:268:MET:HE1	1.77	0.64
1:z:324:SER:O	1:z:328:GLN:NE2	2.30	0.64
1:1:303:LEU:HD22	1:2:112:MET:SD	2.37	0.64
1:D:324:SER:O	1:D:328:GLN:NE2	2.30	0.64
1:G:303:LEU:HD22	1:H:112:MET:SD	2.37	0.64
1:Q:112:MET:SD	1:R:303:LEU:HD22	2.37	0.64
1:S:112:MET:SD	1:T:303:LEU:HD22	2.37	0.64
1:Y:324:SER:O	1:Y:328:GLN:NE2	2.30	0.64
1:8:303:LEU:HD22	1:w:112:MET:SD	2.36	0.64
1:b:303:LEU:HD22	1:e:112:MET:SD	2.37	0.64
1:d:112:MET:SD	1:q:303:LEU:HD22	2.37	0.64
1:i:303:LEU:HD22	1:z:112:MET:SD	2.37	0.64
1:k:112:MET:SD	1:r:303:LEU:HD22	2.37	0.64
1:l:324:SER:O	1:l:328:GLN:NE2	2.30	0.64
1:o:122:THR:CG2	1:o:123:LYS:N	2.48	0.64
1:w:324:SER:O	1:w:328:GLN:NE2	2.30	0.64
1:x:324:SER:O	1:x:328:GLN:NE2	2.30	0.64
1:B:112:MET:SD	1:I:303:LEU:HD22	2.36	0.64
1:I:243:ASN:HD22	1:I:246:MET:CG	2.08	0.64
1:J:324:SER:O	1:J:328:GLN:NE2	2.30	0.64
1:V:122:THR:CG2	1:V:123:LYS:H	1.93	0.64
1:5:112:MET:SD	1:h:303:LEU:HD22	2.36	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:324:SER:O	1:u:328:GLN:NE2	2.30	0.64
1:v:112:MET:SD	1:x:303:LEU:HD22	2.37	0.64
1:D:208:ASN:ND2	1:E:67:ARG:HH12	1.95	0.64
1:H:67:ARG:HH12	1:I:208:ASN:ND2	1.95	0.64
1:J:112:MET:SD	1:K:303:LEU:HD22	2.37	0.64
1:P:243:ASN:HD22	1:P:246:MET:CG	2.08	0.64
1:R:324:SER:O	1:R:328:GLN:NE2	2.30	0.64
1:X:290:GLN:HE22	1:Y:276:PRO:HB2	1.60	0.64
1:Y:112:MET:SD	1:Z:303:LEU:HD22	2.37	0.64
1:c:112:MET:SD	1:f:303:LEU:HD22	2.37	0.64
1:c:122:THR:CG2	1:c:123:LYS:H	1.93	0.64
1:g:243:ASN:HD22	1:g:246:MET:CG	2.08	0.64
1:i:239:VAL:HG13	1:i:268:MET:HE1	1.77	0.64
1:n:67:ARG:HH12	1:z:208:ASN:ND2	1.95	0.64
1:p:303:LEU:HD22	1:s:112:MET:SD	2.37	0.64
1:u:243:ASN:HD22	1:u:246:MET:CG	2.08	0.64
1:y:243:ASN:HD22	1:y:246:MET:CG	2.08	0.64
1:E:303:LEU:HD22	1:P:112:MET:SD	2.37	0.64
1:F:122:THR:CG2	1:F:123:LYS:H	1.93	0.64
1:R:243:ASN:HD22	1:R:246:MET:CG	2.08	0.64
1:a:122:THR:CG2	1:a:123:LYS:H	1.93	0.64
1:g:303:LEU:HD22	1:l:112:MET:SD	2.37	0.64
1:n:303:LEU:HD22	1:y:112:MET:SD	2.37	0.64
1:o:112:MET:SD	1:u:303:LEU:HD22	2.37	0.64
1:M:239:VAL:HG13	1:M:268:MET:HE1	1.77	0.64
1:Q:122:THR:CG2	1:Q:123:LYS:N	2.48	0.64
1:d:67:ARG:HH12	1:r:208:ASN:ND2	1.95	0.64
1:A:112:MET:SD	1:F:303:LEU:HD22	2.37	0.64
1:O:243:ASN:HD22	1:O:246:MET:CG	2.08	0.64
1:7:324:SER:O	1:7:328:GLN:NE2	2.30	0.64
1:g:112:MET:SD	1:l:303:LEU:HD22	2.37	0.64
1:y:122:THR:CG2	1:y:123:LYS:N	2.48	0.64
1:F:67:ARG:HH12	1:G:208:ASN:ND2	1.95	0.64
1:J:303:LEU:HD22	1:K:112:MET:SD	2.37	0.64
1:O:67:ARG:HH12	1:P:208:ASN:ND2	1.95	0.64
1:P:324:SER:O	1:P:328:GLN:NE2	2.30	0.64
1:6:208:ASN:ND2	1:m:67:ARG:HH12	1.94	0.64
1:6:324:SER:O	1:6:328:GLN:NE2	2.30	0.64
1:r:324:SER:O	1:r:328:GLN:NE2	2.30	0.64
1:y:208:ASN:ND2	1:2:67:ARG:HH12	1.95	0.64
1:y:324:SER:O	1:y:328:GLN:NE2	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:324:SER:O	1:I:328:GLN:NE2	2.30	0.64
1:M:324:SER:O	1:M:328:GLN:NE2	2.30	0.64
1:N:67:ARG:HH12	1:g:208:ASN:ND2	1.95	0.64
1:W:122:THR:CG2	1:W:123:LYS:H	1.93	0.64
1:8:243:ASN:HD22	1:8:246:MET:CG	2.08	0.64
1:7:112:MET:SD	1:6:303:LEU:HD22	2.38	0.64
1:a:208:ASN:ND2	1:e:67:ARG:HH12	1.95	0.64
1:H:239:VAL:HG13	1:H:268:MET:HE1	1.77	0.63
1:P:122:THR:CG2	1:P:123:LYS:N	2.48	0.63
1:S:67:ARG:HH12	1:5:208:ASN:ND2	1.95	0.63
1:V:208:ASN:ND2	1:W:67:ARG:HH12	1.95	0.63
1:v:67:ARG:HH12	1:w:208:ASN:ND2	1.95	0.63
1:2:243:ASN:HD22	1:2:246:MET:CG	2.08	0.63
1:F:324:SER:O	1:F:328:GLN:NE2	2.30	0.63
1:K:208:ASN:ND2	1:1:67:ARG:HH12	1.95	0.63
1:l:243:ASN:HD22	1:l:246:MET:CG	2.08	0.63
1:p:122:THR:CG2	1:p:123:LYS:H	1.93	0.63
1:A:324:SER:O	1:A:328:GLN:NE2	2.30	0.63
1:M:122:THR:CG2	1:M:123:LYS:H	1.93	0.63
1:d:239:VAL:HG13	1:d:268:MET:HE1	1.77	0.63
1:h:243:ASN:HD22	1:h:246:MET:CG	2.08	0.63
1:i:324:SER:O	1:i:328:GLN:NE2	2.30	0.63
1:p:324:SER:O	1:p:328:GLN:NE2	2.30	0.63
1:s:324:SER:O	1:s:328:GLN:NE2	2.30	0.63
1:J:243:ASN:HD22	1:J:246:MET:CG	2.08	0.63
1:h:122:THR:CG2	1:h:123:LYS:H	1.93	0.63
1:I:67:ARG:HH12	1:J:208:ASN:ND2	1.94	0.63
1:K:67:ARG:HH12	1:L:208:ASN:ND2	1.95	0.63
1:3:243:ASN:HD22	1:3:246:MET:CG	2.08	0.63
1:W:88:MET:HE2	1:W:239:VAL:HA	1.81	0.63
1:e:122:THR:CG2	1:e:123:LYS:H	1.93	0.63
1:R:88:MET:HE2	1:R:239:VAL:HA	1.81	0.63
1:Z:88:MET:HE2	1:Z:239:VAL:HA	1.81	0.63
1:u:88:MET:HE2	1:u:239:VAL:HA	1.81	0.63
1:V:241:GLN:NE2	1:V:268:MET:HB2	2.14	0.63
1:8:88:MET:HE2	1:8:239:VAL:HA	1.81	0.63
1:a:241:GLN:NE2	1:a:268:MET:HB2	2.14	0.63
1:e:88:MET:HE2	1:e:239:VAL:HA	1.81	0.63
1:f:88:MET:HE2	1:f:239:VAL:HA	1.81	0.63
1:g:67:ARG:HH12	1:m:208:ASN:ND2	1.95	0.63
1:i:122:THR:CG2	1:i:123:LYS:H	1.93	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:208:ASN:ND2	1:r:67:ARG:HH12	1.94	0.63
1:p:241:GLN:NE2	1:p:268:MET:HB2	2.14	0.63
1:w:88:MET:HE2	1:w:239:VAL:HA	1.81	0.63
1:z:88:MET:HE2	1:z:239:VAL:HA	1.81	0.63
1:D:88:MET:HE2	1:D:239:VAL:HA	1.81	0.62
1:F:241:GLN:NE2	1:F:268:MET:HB2	2.14	0.62
1:O:88:MET:HE2	1:O:239:VAL:HA	1.81	0.62
1:8:122:THR:CG2	1:8:123:LYS:H	1.93	0.62
1:4:243:ASN:HD22	1:4:246:MET:CG	2.08	0.62
1:h:88:MET:HE2	1:h:239:VAL:HA	1.81	0.62
1:2:88:MET:HE2	1:2:239:VAL:HA	1.81	0.62
1:B:241:GLN:NE2	1:B:268:MET:HB2	2.14	0.62
1:E:241:GLN:NE2	1:E:268:MET:HB2	2.14	0.62
1:5:88:MET:HE2	1:5:239:VAL:HA	1.81	0.62
1:4:241:GLN:NE2	1:4:268:MET:HB2	2.14	0.62
1:3:241:GLN:NE2	1:3:268:MET:HB2	2.14	0.62
1:c:243:ASN:HD22	1:c:246:MET:CG	2.08	0.62
1:k:88:MET:HE2	1:k:239:VAL:HA	1.81	0.62
1:n:241:GLN:NE2	1:n:268:MET:HB2	2.14	0.62
1:x:88:MET:HE2	1:x:239:VAL:HA	1.81	0.62
1:B:88:MET:HE2	1:B:239:VAL:HA	1.81	0.62
1:C:120:ARG:HG3	1:C:226:LEU:HD12	1.82	0.62
1:D:241:GLN:NE2	1:D:268:MET:HB2	2.15	0.62
1:J:88:MET:HE2	1:J:239:VAL:HA	1.81	0.62
1:P:88:MET:HE2	1:P:239:VAL:HA	1.81	0.62
1:R:241:GLN:NE2	1:R:268:MET:HB2	2.14	0.62
1:T:88:MET:HE2	1:T:239:VAL:HA	1.81	0.62
1:4:88:MET:HE2	1:4:239:VAL:HA	1.81	0.62
1:3:88:MET:HE2	1:3:239:VAL:HA	1.81	0.62
1:b:88:MET:HE2	1:b:239:VAL:HA	1.81	0.62
1:j:241:GLN:NE2	1:j:268:MET:HB2	2.14	0.62
1:k:241:GLN:NE2	1:k:268:MET:HB2	2.14	0.62
1:l:88:MET:HE2	1:l:239:VAL:HA	1.81	0.62
1:p:120:ARG:HG3	1:p:226:LEU:HD12	1.82	0.62
1:r:241:GLN:NE2	1:r:268:MET:HB2	2.14	0.62
1:y:88:MET:HE2	1:y:239:VAL:HA	1.81	0.62
1:z:241:GLN:NE2	1:z:268:MET:HB2	2.14	0.62
1:A:241:GLN:NE2	1:A:268:MET:HB2	2.14	0.62
1:B:120:ARG:HG3	1:B:226:LEU:HD12	1.82	0.62
1:I:241:GLN:NE2	1:I:268:MET:HB2	2.14	0.62
1:X:88:MET:HE2	1:X:239:VAL:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:120:ARG:HG3	1:j:226:LEU:HD12	1.82	0.62
1:A:67:ARG:HH12	1:E:208:ASN:ND2	1.94	0.62
1:C:241:GLN:NE2	1:C:268:MET:HB2	2.14	0.62
1:F:120:ARG:HG3	1:F:226:LEU:HD12	1.82	0.62
1:5:241:GLN:NE2	1:5:268:MET:HB2	2.14	0.62
1:3:120:ARG:HG3	1:3:226:LEU:HD12	1.82	0.62
1:g:88:MET:HE2	1:g:239:VAL:HA	1.81	0.62
1:k:120:ARG:HG3	1:k:226:LEU:HD12	1.82	0.62
1:s:241:GLN:NE2	1:s:268:MET:HB2	2.15	0.62
1:u:241:GLN:NE2	1:u:268:MET:HB2	2.15	0.62
1:C:88:MET:HE2	1:C:239:VAL:HA	1.81	0.62
1:C:208:ASN:ND2	1:D:67:ARG:HH12	1.95	0.62
1:D:120:ARG:HG3	1:D:226:LEU:HD12	1.82	0.62
1:J:120:ARG:HG3	1:J:226:LEU:HD12	1.82	0.62
1:K:88:MET:HE2	1:K:239:VAL:HA	1.81	0.62
1:R:120:ARG:HG3	1:R:226:LEU:HD12	1.82	0.62
1:Y:241:GLN:NE2	1:Y:268:MET:HB2	2.14	0.62
1:Y:243:ASN:HD22	1:Y:246:MET:CG	2.08	0.62
1:7:88:MET:HE2	1:7:239:VAL:HA	1.81	0.62
1:4:120:ARG:HG3	1:4:226:LEU:HD12	1.82	0.62
1:c:241:GLN:NE2	1:c:268:MET:HB2	2.14	0.62
1:j:208:ASN:ND2	1:z:67:ARG:HH12	1.95	0.62
1:v:88:MET:HE2	1:v:239:VAL:HA	1.81	0.62
1:w:241:GLN:NE2	1:w:268:MET:HB2	2.14	0.62
1:G:241:GLN:NE2	1:G:268:MET:HB2	2.14	0.62
1:J:241:GLN:NE2	1:J:268:MET:HB2	2.14	0.62
1:M:88:MET:HE2	1:M:239:VAL:HA	1.81	0.62
1:6:88:MET:HE2	1:6:239:VAL:HA	1.81	0.62
1:d:88:MET:HE2	1:d:239:VAL:HA	1.81	0.62
1:i:88:MET:HE2	1:i:239:VAL:HA	1.81	0.62
1:l:120:ARG:HG3	1:l:226:LEU:HD12	1.82	0.62
1:l:241:GLN:NE2	1:l:268:MET:HB2	2.14	0.62
1:u:120:ARG:HG3	1:u:226:LEU:HD12	1.82	0.62
1:z:120:ARG:HG3	1:z:226:LEU:HD12	1.82	0.62
1:A:120:ARG:HG3	1:A:226:LEU:HD12	1.82	0.62
1:F:243:ASN:HD22	1:F:246:MET:CG	2.08	0.62
1:H:88:MET:HE2	1:H:239:VAL:HA	1.81	0.62
1:K:120:ARG:HG3	1:K:226:LEU:HD12	1.82	0.62
1:S:88:MET:HE2	1:S:239:VAL:HA	1.81	0.62
1:U:241:GLN:NE2	1:U:268:MET:HB2	2.14	0.62
1:Z:241:GLN:NE2	1:Z:268:MET:HB2	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:241:GLN:NE2	1:7:268:MET:HB2	2.14	0.62
1:f:241:GLN:NE2	1:f:268:MET:HB2	2.15	0.62
1:g:241:GLN:NE2	1:g:268:MET:HB2	2.14	0.62
1:j:88:MET:HE2	1:j:239:VAL:HA	1.81	0.62
1:p:243:ASN:HD22	1:p:246:MET:CG	2.08	0.62
1:s:120:ARG:HG3	1:s:226:LEU:HD12	1.82	0.62
1:K:241:GLN:NE2	1:K:268:MET:HB2	2.14	0.62
1:6:241:GLN:NE2	1:6:268:MET:HB2	2.14	0.62
1:g:120:ARG:HG3	1:g:226:LEU:HD12	1.82	0.62
1:q:120:ARG:HG3	1:q:226:LEU:HD12	1.82	0.62
1:q:241:GLN:NE2	1:q:268:MET:HB2	2.14	0.62
1:E:120:ARG:HG3	1:E:226:LEU:HD12	1.82	0.62
1:G:120:ARG:HG3	1:G:226:LEU:HD12	1.82	0.62
1:O:241:GLN:NE2	1:O:268:MET:HB2	2.14	0.62
1:8:120:ARG:HG3	1:8:226:LEU:HD12	1.82	0.62
1:d:120:ARG:HG3	1:d:226:LEU:HD12	1.82	0.62
1:d:208:ASN:ND2	1:f:67:ARG:HH12	1.95	0.62
1:t:241:GLN:NE2	1:t:268:MET:HB2	2.14	0.62
1:y:120:ARG:HG3	1:y:226:LEU:HD12	1.82	0.62
1:H:120:ARG:HG3	1:H:226:LEU:HD12	1.82	0.61
1:H:208:ASN:ND2	1:Z:67:ARG:HH12	1.95	0.61
1:H:241:GLN:NE2	1:H:268:MET:HB2	2.14	0.61
1:L:241:GLN:NE2	1:L:268:MET:HB2	2.14	0.61
1:M:67:ARG:HH12	1:N:208:ASN:ND2	1.95	0.61
1:P:67:ARG:HH12	1:Q:208:ASN:ND2	1.95	0.61
1:T:120:ARG:HG3	1:T:226:LEU:HD12	1.82	0.61
1:V:88:MET:HE2	1:V:239:VAL:HA	1.81	0.61
1:d:241:GLN:NE2	1:d:268:MET:HB2	2.14	0.61
1:e:241:GLN:NE2	1:e:268:MET:HB2	2.14	0.61
1:h:120:ARG:HG3	1:h:226:LEU:HD12	1.82	0.61
1:n:120:ARG:HG3	1:n:226:LEU:HD12	1.82	0.61
1:y:241:GLN:NE2	1:y:268:MET:HB2	2.14	0.61
1:A:40:SER:O	1:G:212:LYS:NZ	2.33	0.61
1:A:88:MET:HE2	1:A:239:VAL:HA	1.81	0.61
1:P:120:ARG:HG3	1:P:226:LEU:HD12	1.82	0.61
1:P:241:GLN:NE2	1:P:268:MET:HB2	2.14	0.61
1:Q:120:ARG:HG3	1:Q:226:LEU:HD12	1.82	0.61
1:W:241:GLN:NE2	1:W:268:MET:HB2	2.14	0.61
1:8:241:GLN:NE2	1:8:268:MET:HB2	2.14	0.61
1:a:88:MET:HE2	1:a:239:VAL:HA	1.81	0.61
1:h:241:GLN:NE2	1:h:268:MET:HB2	2.14	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:241:GLN:NE2	1:m:268:MET:HB2	2.14	0.61
1:n:208:ASN:ND2	1:s:67:ARG:HH12	1.95	0.61
1:v:241:GLN:NE2	1:v:268:MET:HB2	2.14	0.61
1:2:241:GLN:NE2	1:2:268:MET:HB2	2.14	0.61
1:S:241:GLN:NE2	1:S:268:MET:HB2	2.14	0.61
1:T:241:GLN:NE2	1:T:268:MET:HB2	2.14	0.61
1:W:120:ARG:HG3	1:W:226:LEU:HD12	1.82	0.61
1:X:241:GLN:NE2	1:X:268:MET:HB2	2.14	0.61
1:b:243:ASN:HD22	1:b:246:MET:CG	2.08	0.61
1:o:120:ARG:HG3	1:o:226:LEU:HD12	1.82	0.61
1:o:208:ASN:ND2	1:y:67:ARG:HH12	1.95	0.61
1:x:120:ARG:HG3	1:x:226:LEU:HD12	1.82	0.61
1:x:241:GLN:NE2	1:x:268:MET:HB2	2.14	0.61
1:1:241:GLN:NE2	1:1:268:MET:HB2	2.14	0.61
1:A:122:THR:CG2	1:A:123:LYS:H	1.93	0.61
1:C:40:SER:O	1:7:212:LYS:NZ	2.30	0.61
1:F:88:MET:HE2	1:F:239:VAL:HA	1.81	0.61
1:I:120:ARG:HG3	1:I:226:LEU:HD12	1.82	0.61
1:O:120:ARG:HG3	1:O:226:LEU:HD12	1.82	0.61
1:Y:88:MET:HE2	1:Y:239:VAL:HA	1.81	0.61
1:b:241:GLN:NE2	1:b:268:MET:HB2	2.14	0.61
1:e:120:ARG:HG3	1:e:226:LEU:HD12	1.82	0.61
1:i:67:ARG:HH12	1:1:208:ASN:ND2	1.95	0.61
1:B:243:ASN:HD22	1:B:246:MET:CG	2.08	0.61
1:E:88:MET:HE2	1:E:239:VAL:HA	1.81	0.61
1:N:241:GLN:NE2	1:N:268:MET:HB2	2.14	0.61
1:q:212:LYS:NZ	1:s:40:SER:O	2.33	0.61
1:s:88:MET:HE2	1:s:239:VAL:HA	1.81	0.61
1:t:243:ASN:HD22	1:t:246:MET:CG	2.08	0.61
1:w:120:ARG:HG3	1:w:226:LEU:HD12	1.82	0.61
1:S:120:ARG:HG3	1:S:226:LEU:HD12	1.82	0.61
1:5:120:ARG:HG3	1:5:226:LEU:HD12	1.82	0.61
1:b:120:ARG:HG3	1:b:226:LEU:HD12	1.82	0.61
1:c:88:MET:HE2	1:c:239:VAL:HA	1.81	0.61
1:r:120:ARG:HG3	1:r:226:LEU:HD12	1.82	0.61
1:w:67:ARG:HH12	1:2:208:ASN:ND2	1.95	0.61
1:2:120:ARG:HG3	1:2:226:LEU:HD12	1.82	0.61
1:I:88:MET:HE2	1:I:239:VAL:HA	1.81	0.61
1:Q:88:MET:HE2	1:Q:239:VAL:HA	1.81	0.61
1:S:122:THR:CG2	1:S:123:LYS:H	1.93	0.61
1:U:88:MET:HE2	1:U:239:VAL:HA	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:120:ARG:HG3	1:X:226:LEU:HD12	1.82	0.61
1:X:243:ASN:HD22	1:X:246:MET:CG	2.08	0.61
1:6:120:ARG:HG3	1:6:226:LEU:HD12	1.82	0.61
1:a:120:ARG:HG3	1:a:226:LEU:HD12	1.82	0.61
1:o:88:MET:HE2	1:o:239:VAL:HA	1.81	0.61
1:r:88:MET:HE2	1:r:239:VAL:HA	1.81	0.61
1:u:122:THR:CG2	1:u:123:LYS:N	2.48	0.61
1:v:122:THR:CG2	1:v:123:LYS:H	1.93	0.61
1:M:241:GLN:NE2	1:M:268:MET:HB2	2.15	0.61
1:U:243:ASN:HD22	1:U:246:MET:CG	2.08	0.61
1:7:120:ARG:HG3	1:7:226:LEU:HD12	1.82	0.61
1:n:88:MET:HE2	1:n:239:VAL:HA	1.81	0.61
1:p:88:MET:HE2	1:p:239:VAL:HA	1.81	0.61
1:D:243:ASN:HD22	1:D:246:MET:CG	2.08	0.61
1:G:88:MET:HE2	1:G:239:VAL:HA	1.81	0.61
1:N:122:THR:CG2	1:N:123:LYS:H	1.93	0.61
1:O:208:ASN:ND2	1:5:67:ARG:HH12	1.95	0.61
1:V:120:ARG:HG3	1:V:226:LEU:HD12	1.82	0.61
1:Y:120:ARG:HG3	1:Y:226:LEU:HD12	1.82	0.61
1:i:241:GLN:NE2	1:i:268:MET:HB2	2.14	0.61
1:k:243:ASN:HD22	1:k:246:MET:CG	2.08	0.61
1:o:241:GLN:NE2	1:o:268:MET:HB2	2.14	0.61
1:q:88:MET:HE2	1:q:239:VAL:HA	1.81	0.61
1:v:120:ARG:HG3	1:v:226:LEU:HD12	1.82	0.61
1:z:243:ASN:HD22	1:z:246:MET:CG	2.08	0.61
1:Q:241:GLN:NE2	1:Q:268:MET:HB2	2.14	0.61
1:m:88:MET:HE2	1:m:239:VAL:HA	1.81	0.61
1:t:88:MET:HE2	1:t:239:VAL:HA	1.81	0.61
1:L:88:MET:HE2	1:L:239:VAL:HA	1.81	0.60
1:N:88:MET:HE2	1:N:239:VAL:HA	1.81	0.60
1:R:122:THR:CG2	1:R:123:LYS:N	2.48	0.60
1:T:243:ASN:HD22	1:T:246:MET:CG	2.08	0.60
1:c:120:ARG:HG3	1:c:226:LEU:HD12	1.82	0.60
1:s:122:THR:CG2	1:s:123:LYS:H	1.93	0.60
1:A:285:PHE:HE1	1:B:148:THR:HA	1.66	0.60
1:N:40:SER:O	1:P:212:LYS:NZ	2.33	0.60
1:Z:243:ASN:HD22	1:Z:246:MET:CG	2.08	0.60
1:t:120:ARG:HG3	1:t:226:LEU:HD12	1.82	0.60
1:M:208:ASN:ND2	1:6:67:ARG:HH12	1.95	0.60
1:Z:120:ARG:HG3	1:Z:226:LEU:HD12	1.82	0.60
1:f:120:ARG:HG3	1:f:226:LEU:HD12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:122:THR:CG2	1:p:123:LYS:N	2.48	0.60
1:y:212:LYS:NZ	1:1:40:SER:O	2.33	0.60
1:1:88:MET:HE2	1:1:239:VAL:HA	1.81	0.60
1:1:122:THR:CG2	1:1:123:LYS:H	1.93	0.60
1:F:208:ASN:ND2	1:R:67:ARG:HH12	1.94	0.60
1:K:193:VAL:HG12	1:K:194:SER:O	2.02	0.60
1:K:212:LYS:NZ	1:2:40:SER:O	2.33	0.60
1:L:120:ARG:HG3	1:L:226:LEU:HD12	1.82	0.60
1:M:212:LYS:NZ	1:7:40:SER:O	2.28	0.60
1:m:120:ARG:HG3	1:m:226:LEU:HD12	1.82	0.60
1:G:81:ILE:HB	1:G:273:LEU:HB2	1.84	0.60
1:I:193:VAL:HG12	1:I:194:SER:O	2.02	0.60
1:O:40:SER:O	1:g:212:LYS:NZ	2.33	0.60
1:U:120:ARG:HG3	1:U:226:LEU:HD12	1.82	0.60
1:X:193:VAL:HG12	1:X:194:SER:O	2.02	0.60
1:7:67:ARG:HH12	1:i:208:ASN:ND2	1.95	0.60
1:b:193:VAL:HG12	1:b:194:SER:O	2.02	0.60
1:g:193:VAL:HG12	1:g:194:SER:O	2.02	0.60
1:q:81:ILE:HB	1:q:273:LEU:HB2	1.84	0.60
1:1:193:VAL:HG12	1:1:194:SER:O	2.02	0.60
1:D:81:ILE:HB	1:D:273:LEU:HB2	1.84	0.60
1:J:40:SER:O	1:L:212:LYS:NZ	2.33	0.60
1:K:122:THR:CG2	1:K:123:LYS:H	1.93	0.60
1:L:193:VAL:HG12	1:L:194:SER:O	2.02	0.60
1:N:193:VAL:HG12	1:N:194:SER:O	2.02	0.60
1:U:193:VAL:HG12	1:U:194:SER:O	2.02	0.60
1:f:243:ASN:HD22	1:f:246:MET:CG	2.08	0.60
1:r:193:VAL:HG12	1:r:194:SER:O	2.02	0.60
1:t:193:VAL:HG12	1:t:194:SER:O	2.02	0.60
1:x:243:ASN:HD22	1:x:246:MET:CG	2.08	0.60
1:z:81:ILE:HB	1:z:273:LEU:HB2	1.84	0.60
1:F:193:VAL:HG12	1:F:194:SER:O	2.02	0.60
1:J:81:ILE:HB	1:J:273:LEU:HB2	1.84	0.60
1:S:81:ILE:HB	1:S:273:LEU:HB2	1.84	0.60
1:V:193:VAL:HG12	1:V:194:SER:O	2.02	0.60
1:W:243:ASN:HD22	1:W:246:MET:CG	2.08	0.60
1:m:193:VAL:HG12	1:m:194:SER:O	2.02	0.60
1:p:193:VAL:HG12	1:p:194:SER:O	2.02	0.60
1:v:81:ILE:HB	1:v:273:LEU:HB2	1.84	0.60
1:F:122:THR:CG2	1:F:123:LYS:N	2.48	0.60
1:P:230:PHE:CE1	1:P:329:SER:O	2.55	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:193:VAL:HG12	1:S:194:SER:O	2.02	0.60
1:W:40:SER:O	1:Y:212:LYS:NZ	2.33	0.60
1:X:230:PHE:CE1	1:X:329:SER:O	2.55	0.60
1:5:81:ILE:HB	1:5:273:LEU:HB2	1.84	0.60
1:5:230:PHE:CE1	1:5:329:SER:O	2.55	0.60
1:a:193:VAL:HG12	1:a:194:SER:O	2.02	0.60
1:b:230:PHE:CE1	1:b:329:SER:O	2.55	0.60
1:c:230:PHE:CE1	1:c:329:SER:O	2.55	0.60
1:d:40:SER:O	1:e:212:LYS:NZ	2.34	0.60
1:l:40:SER:O	1:m:212:LYS:NZ	2.33	0.60
1:l:81:ILE:HB	1:l:273:LEU:HB2	1.84	0.60
1:v:122:THR:CG2	1:v:123:LYS:N	2.48	0.60
1:v:193:VAL:HG12	1:v:194:SER:O	2.02	0.60
1:w:230:PHE:CE1	1:w:329:SER:O	2.55	0.60
1:y:230:PHE:CE1	1:y:329:SER:O	2.55	0.60
1:2:193:VAL:HG12	1:2:194:SER:O	2.02	0.60
1:M:120:ARG:HG3	1:M:226:LEU:HD12	1.82	0.60
1:Q:230:PHE:CE1	1:Q:329:SER:O	2.55	0.60
1:R:230:PHE:CE1	1:R:329:SER:O	2.55	0.60
1:U:177:VAL:HG21	1:U:340:LYS:HD3	1.84	0.60
1:W:193:VAL:HG12	1:W:194:SER:O	2.02	0.60
1:Y:177:VAL:HG21	1:Y:340:LYS:HD3	1.84	0.60
1:Y:230:PHE:CE1	1:Y:329:SER:O	2.55	0.60
1:7:230:PHE:CE1	1:7:329:SER:O	2.55	0.60
1:4:230:PHE:CE1	1:4:329:SER:O	2.55	0.60
1:3:230:PHE:CE1	1:3:329:SER:O	2.55	0.60
1:c:177:VAL:HG21	1:c:340:LYS:HD3	1.84	0.60
1:e:81:ILE:HB	1:e:273:LEU:HB2	1.84	0.60
1:e:193:VAL:HG12	1:e:194:SER:O	2.02	0.60
1:e:243:ASN:HD22	1:e:246:MET:CG	2.08	0.60
1:g:122:THR:CG2	1:g:123:LYS:H	1.93	0.60
1:g:230:PHE:CE1	1:g:329:SER:O	2.55	0.60
1:k:148:THR:HA	1:s:285:PHE:HE1	1.67	0.60
1:t:177:VAL:HG21	1:t:340:LYS:HD3	1.84	0.60
1:u:230:PHE:CE1	1:u:329:SER:O	2.55	0.60
1:w:81:ILE:HB	1:w:273:LEU:HB2	1.84	0.60
1:z:230:PHE:CE1	1:z:329:SER:O	2.55	0.60
1:C:230:PHE:CE1	1:C:329:SER:O	2.55	0.60
1:D:230:PHE:CE1	1:D:329:SER:O	2.55	0.60
1:G:230:PHE:CE1	1:G:329:SER:O	2.55	0.60
1:G:312:ASN:ND2	1:H:106:HIS:O	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:193:VAL:HG12	1:O:194:SER:O	2.02	0.60
1:P:193:VAL:HG12	1:P:194:SER:O	2.02	0.60
1:Q:193:VAL:HG12	1:Q:194:SER:O	2.02	0.60
1:6:230:PHE:CE1	1:6:329:SER:O	2.55	0.60
1:c:212:LYS:NZ	1:e:40:SER:O	2.33	0.60
1:d:106:HIS:O	1:q:312:ASN:ND2	2.35	0.60
1:i:120:ARG:HG3	1:i:226:LEU:HD12	1.82	0.60
1:o:230:PHE:CE1	1:o:329:SER:O	2.55	0.60
1:p:208:ASN:ND2	1:u:67:ARG:HH12	1.95	0.60
1:q:230:PHE:CE1	1:q:329:SER:O	2.55	0.60
1:1:120:ARG:HG3	1:1:226:LEU:HD12	1.82	0.60
1:F:212:LYS:NZ	1:Q:40:SER:O	2.33	0.59
1:H:193:VAL:HG12	1:H:194:SER:O	2.02	0.59
1:I:230:PHE:CE1	1:I:329:SER:O	2.55	0.59
1:K:81:ILE:HB	1:K:273:LEU:HB2	1.84	0.59
1:K:230:PHE:CE1	1:K:329:SER:O	2.55	0.59
1:M:230:PHE:CE1	1:M:329:SER:O	2.55	0.59
1:N:120:ARG:HG3	1:N:226:LEU:HD12	1.82	0.59
1:S:122:THR:CG2	1:S:123:LYS:N	2.48	0.59
1:W:81:ILE:HB	1:W:273:LEU:HB2	1.84	0.59
1:7:177:VAL:HG21	1:7:340:LYS:HD3	1.84	0.59
1:4:81:ILE:HB	1:4:273:LEU:HB2	1.84	0.59
1:g:81:ILE:HB	1:g:273:LEU:HB2	1.84	0.59
1:i:230:PHE:CE1	1:i:329:SER:O	2.55	0.59
1:j:230:PHE:CE1	1:j:329:SER:O	2.55	0.59
1:o:193:VAL:HG12	1:o:194:SER:O	2.02	0.59
1:s:230:PHE:CE1	1:s:329:SER:O	2.55	0.59
1:y:193:VAL:HG12	1:y:194:SER:O	2.02	0.59
1:A:230:PHE:CE1	1:A:329:SER:O	2.55	0.59
1:F:230:PHE:CE1	1:F:329:SER:O	2.55	0.59
1:V:177:VAL:HG21	1:V:340:LYS:HD3	1.84	0.59
1:X:177:VAL:HG21	1:X:340:LYS:HD3	1.84	0.59
1:Z:81:ILE:HB	1:Z:273:LEU:HB2	1.84	0.59
1:8:40:SER:O	1:2:212:LYS:NZ	2.34	0.59
1:6:177:VAL:HG21	1:6:340:LYS:HD3	1.84	0.59
1:3:81:ILE:HB	1:3:273:LEU:HB2	1.84	0.59
1:3:177:VAL:HG21	1:3:340:LYS:HD3	1.84	0.59
1:b:148:THR:HA	1:c:285:PHE:HE1	1.67	0.59
1:b:177:VAL:HG21	1:b:340:LYS:HD3	1.84	0.59
1:d:193:VAL:HG12	1:d:194:SER:O	2.02	0.59
1:j:81:ILE:HB	1:j:273:LEU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:285:PHE:HE1	1:u:148:THR:HA	1.67	0.59
1:v:230:PHE:CE1	1:v:329:SER:O	2.55	0.59
1:B:230:PHE:CE1	1:B:329:SER:O	2.55	0.59
1:C:177:VAL:HG21	1:C:340:LYS:HD3	1.84	0.59
1:H:177:VAL:HG21	1:H:340:LYS:HD3	1.84	0.59
1:J:230:PHE:CE1	1:J:329:SER:O	2.55	0.59
1:N:81:ILE:HB	1:N:273:LEU:HB2	1.84	0.59
1:R:193:VAL:HG12	1:R:194:SER:O	2.02	0.59
1:S:230:PHE:CE1	1:S:329:SER:O	2.55	0.59
1:T:193:VAL:HG12	1:T:194:SER:O	2.02	0.59
1:T:285:PHE:HE1	1:c:148:THR:HA	1.68	0.59
1:X:148:THR:HA	1:Y:285:PHE:HE1	1.67	0.59
1:Y:148:THR:HA	1:x:285:PHE:HE1	1.68	0.59
1:4:177:VAL:HG21	1:4:340:LYS:HD3	1.84	0.59
1:a:177:VAL:HG21	1:a:340:LYS:HD3	1.84	0.59
1:b:81:ILE:HB	1:b:273:LEU:HB2	1.84	0.59
1:d:177:VAL:HG21	1:d:340:LYS:HD3	1.84	0.59
1:j:177:VAL:HG21	1:j:340:LYS:HD3	1.84	0.59
1:k:40:SER:O	1:l:212:LYS:NZ	2.33	0.59
1:k:81:ILE:HB	1:k:273:LEU:HB2	1.84	0.59
1:k:230:PHE:CE1	1:k:329:SER:O	2.55	0.59
1:l:230:PHE:CE1	1:l:329:SER:O	2.55	0.59
1:r:230:PHE:CE1	1:r:329:SER:O	2.55	0.59
1:w:212:LYS:NZ	1:x:40:SER:O	2.33	0.59
1:x:193:VAL:HG12	1:x:194:SER:O	2.02	0.59
1:1:177:VAL:HG21	1:1:340:LYS:HD3	1.84	0.59
1:2:230:PHE:CE1	1:2:329:SER:O	2.55	0.59
1:A:177:VAL:HG21	1:A:340:LYS:HD3	1.84	0.59
1:B:40:SER:O	1:J:212:LYS:NZ	2.33	0.59
1:B:81:ILE:HB	1:B:273:LEU:HB2	1.84	0.59
1:B:193:VAL:HG12	1:B:194:SER:O	2.02	0.59
1:C:81:ILE:HB	1:C:273:LEU:HB2	1.84	0.59
1:E:312:ASN:ND2	1:P:106:HIS:O	2.35	0.59
1:F:285:PHE:HE1	1:R:148:THR:HA	1.67	0.59
1:L:177:VAL:HG21	1:L:340:LYS:HD3	1.84	0.59
1:M:81:ILE:HB	1:M:273:LEU:HB2	1.84	0.59
1:M:193:VAL:HG12	1:M:194:SER:O	2.02	0.59
1:N:177:VAL:HG21	1:N:340:LYS:HD3	1.84	0.59
1:O:212:LYS:NZ	1:h:40:SER:O	2.35	0.59
1:O:230:PHE:CE1	1:O:329:SER:O	2.55	0.59
1:T:40:SER:O	1:5:212:LYS:NZ	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:81:ILE:HB	1:X:273:LEU:HB2	1.84	0.59
1:Z:230:PHE:CE1	1:Z:329:SER:O	2.55	0.59
1:f:81:ILE:HB	1:f:273:LEU:HB2	1.84	0.59
1:i:40:SER:O	1:j:212:LYS:NZ	2.34	0.59
1:i:81:ILE:HB	1:i:273:LEU:HB2	1.84	0.59
1:i:122:THR:CG2	1:i:123:LYS:N	2.48	0.59
1:i:193:VAL:HG12	1:i:194:SER:O	2.02	0.59
1:k:212:LYS:NZ	1:m:40:SER:O	2.34	0.59
1:o:40:SER:O	1:p:212:LYS:NZ	2.33	0.59
1:s:177:VAL:HG21	1:s:340:LYS:HD3	1.84	0.59
1:1:81:ILE:HB	1:1:273:LEU:HB2	1.84	0.59
1:B:212:LYS:NZ	1:L:40:SER:O	2.33	0.59
1:G:193:VAL:HG12	1:G:194:SER:O	2.02	0.59
1:I:177:VAL:HG21	1:I:340:LYS:HD3	1.84	0.59
1:O:81:ILE:HB	1:O:273:LEU:HB2	1.84	0.59
1:S:177:VAL:HG21	1:S:340:LYS:HD3	1.84	0.59
1:T:230:PHE:CE1	1:T:329:SER:O	2.55	0.59
1:8:81:ILE:HB	1:8:273:LEU:HB2	1.84	0.59
1:f:230:PHE:CE1	1:f:329:SER:O	2.55	0.59
1:k:193:VAL:HG12	1:k:194:SER:O	2.02	0.59
1:m:177:VAL:HG21	1:m:340:LYS:HD3	1.84	0.59
1:m:230:PHE:CE1	1:m:329:SER:O	2.55	0.59
1:n:312:ASN:ND2	1:y:106:HIS:O	2.35	0.59
1:p:230:PHE:CE1	1:p:329:SER:O	2.55	0.59
1:q:193:VAL:HG12	1:q:194:SER:O	2.02	0.59
1:r:177:VAL:HG21	1:r:340:LYS:HD3	1.84	0.59
1:t:230:PHE:CE1	1:t:329:SER:O	2.55	0.59
1:v:177:VAL:HG21	1:v:340:LYS:HD3	1.84	0.59
1:2:81:ILE:HB	1:2:273:LEU:HB2	1.84	0.59
1:E:177:VAL:HG21	1:E:340:LYS:HD3	1.84	0.59
1:L:81:ILE:HB	1:L:273:LEU:HB2	1.84	0.59
1:L:230:PHE:CE1	1:L:329:SER:O	2.55	0.59
1:N:230:PHE:CE1	1:N:329:SER:O	2.55	0.59
1:T:81:ILE:HB	1:T:273:LEU:HB2	1.84	0.59
1:Y:193:VAL:HG12	1:Y:194:SER:O	2.02	0.59
1:Z:212:LYS:NZ	1:w:40:SER:O	2.34	0.59
1:6:193:VAL:HG12	1:6:194:SER:O	2.02	0.59
1:c:81:ILE:HB	1:c:273:LEU:HB2	1.84	0.59
1:h:81:ILE:HB	1:h:273:LEU:HB2	1.84	0.59
1:m:81:ILE:HB	1:m:273:LEU:HB2	1.84	0.59
1:p:106:HIS:O	1:s:312:ASN:ND2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:81:ILE:HB	1:u:273:LEU:HB2	1.84	0.59
1:u:193:VAL:HG12	1:u:194:SER:O	2.02	0.59
1:x:81:ILE:HB	1:x:273:LEU:HB2	1.84	0.59
1:x:230:PHE:CE1	1:x:329:SER:O	2.55	0.59
1:C:193:VAL:HG12	1:C:194:SER:O	2.02	0.59
1:E:193:VAL:HG12	1:E:194:SER:O	2.02	0.59
1:G:106:HIS:O	1:H:312:ASN:ND2	2.36	0.59
1:K:148:THR:HA	1:L:285:PHE:HE1	1.68	0.59
1:L:148:THR:HA	1:7:285:PHE:HE1	1.67	0.59
1:N:312:ASN:ND2	1:O:106:HIS:O	2.36	0.59
1:Q:148:THR:HA	1:S:285:PHE:HE1	1.68	0.59
1:Q:177:VAL:HG21	1:Q:340:LYS:HD3	1.84	0.59
1:R:81:ILE:HB	1:R:273:LEU:HB2	1.84	0.59
1:Y:81:ILE:HB	1:Y:273:LEU:HB2	1.84	0.59
1:Y:312:ASN:ND2	1:Z:106:HIS:O	2.36	0.59
1:f:193:VAL:HG12	1:f:194:SER:O	2.02	0.59
1:j:193:VAL:HG12	1:j:194:SER:O	2.02	0.59
1:n:177:VAL:HG21	1:n:340:LYS:HD3	1.84	0.59
1:o:177:VAL:HG21	1:o:340:LYS:HD3	1.84	0.59
1:w:193:VAL:HG12	1:w:194:SER:O	2.02	0.59
1:1:312:ASN:ND2	1:2:106:HIS:O	2.36	0.59
1:A:81:ILE:HB	1:A:273:LEU:HB2	1.84	0.59
1:E:81:ILE:HB	1:E:273:LEU:HB2	1.84	0.59
1:H:81:ILE:HB	1:H:273:LEU:HB2	1.84	0.59
1:J:177:VAL:HG21	1:J:340:LYS:HD3	1.84	0.59
1:S:40:SER:O	1:U:212:LYS:NZ	2.33	0.59
1:T:260:VAL:CG1	1:T:328:GLN:CD	2.76	0.59
1:U:148:THR:HA	1:4:285:PHE:HE1	1.68	0.59
1:U:230:PHE:CE1	1:U:329:SER:O	2.55	0.59
1:Y:106:HIS:O	1:Z:312:ASN:ND2	2.36	0.59
1:8:193:VAL:HG12	1:8:194:SER:O	2.02	0.59
1:8:230:PHE:CE1	1:8:329:SER:O	2.55	0.59
1:7:81:ILE:HB	1:7:273:LEU:HB2	1.84	0.59
1:7:193:VAL:HG12	1:7:194:SER:O	2.02	0.59
1:7:260:VAL:CG1	1:7:328:GLN:CD	2.76	0.59
1:6:260:VAL:CG1	1:6:328:GLN:CD	2.76	0.59
1:5:193:VAL:HG12	1:5:194:SER:O	2.02	0.59
1:a:106:HIS:O	1:t:312:ASN:ND2	2.36	0.59
1:c:193:VAL:HG12	1:c:194:SER:O	2.02	0.59
1:c:312:ASN:ND2	1:f:106:HIS:O	2.36	0.59
1:d:312:ASN:ND2	1:q:106:HIS:O	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:148:THR:HA	1:m:285:PHE:HE1	1.68	0.59
1:h:193:VAL:HG12	1:h:194:SER:O	2.02	0.59
1:h:230:PHE:CE1	1:h:329:SER:O	2.55	0.59
1:j:260:VAL:CG1	1:j:328:GLN:CD	2.76	0.59
1:l:177:VAL:HG21	1:l:340:LYS:HD3	1.84	0.59
1:n:81:ILE:HB	1:n:273:LEU:HB2	1.84	0.59
1:o:148:THR:HA	1:v:285:PHE:HE1	1.68	0.59
1:p:312:ASN:ND2	1:s:106:HIS:O	2.36	0.59
1:x:260:VAL:CG1	1:x:328:GLN:CD	2.76	0.59
1:1:230:PHE:CE1	1:1:329:SER:O	2.55	0.59
1:C:260:VAL:CG1	1:C:328:GLN:CD	2.76	0.59
1:G:148:THR:HA	1:W:285:PHE:HE1	1.68	0.59
1:J:260:VAL:CG1	1:J:328:GLN:CD	2.76	0.59
1:S:260:VAL:CG1	1:S:328:GLN:CD	2.76	0.59
1:U:312:ASN:ND2	1:V:106:HIS:O	2.36	0.59
1:V:40:SER:O	1:4:212:LYS:NZ	2.33	0.59
1:V:230:PHE:CE1	1:V:329:SER:O	2.55	0.59
1:W:230:PHE:CE1	1:W:329:SER:O	2.55	0.59
1:8:260:VAL:CG1	1:8:328:GLN:CD	2.76	0.59
1:6:80:MET:SD	1:6:192:THR:OG1	2.61	0.59
1:4:193:VAL:HG12	1:4:194:SER:O	2.02	0.59
1:3:193:VAL:HG12	1:3:194:SER:O	2.02	0.59
1:3:285:PHE:HE1	1:t:148:THR:HA	1.68	0.59
1:c:106:HIS:O	1:f:312:ASN:ND2	2.36	0.59
1:e:230:PHE:CE1	1:e:329:SER:O	2.55	0.59
1:i:148:THR:HA	1:1:285:PHE:HE1	1.67	0.59
1:l:260:VAL:CG1	1:l:328:GLN:CD	2.76	0.59
1:n:193:VAL:HG12	1:n:194:SER:O	2.02	0.59
1:o:243:ASN:HD22	1:o:246:MET:CG	2.08	0.59
1:p:148:THR:HA	1:q:285:PHE:HE1	1.67	0.59
1:s:81:ILE:HB	1:s:273:LEU:HB2	1.84	0.59
1:t:260:VAL:CG1	1:t:328:GLN:CD	2.76	0.59
1:D:193:VAL:HG12	1:D:194:SER:O	2.02	0.59
1:D:285:PHE:HE1	1:E:148:THR:HA	1.68	0.59
1:E:230:PHE:CE1	1:E:329:SER:O	2.55	0.59
1:M:148:THR:HA	1:N:285:PHE:HE1	1.67	0.59
1:O:260:VAL:CG1	1:O:328:GLN:CD	2.76	0.59
1:Q:260:VAL:CG1	1:Q:328:GLN:CD	2.76	0.59
1:S:148:THR:HA	1:5:285:PHE:HE1	1.68	0.59
1:Z:193:VAL:HG12	1:Z:194:SER:O	2.02	0.59
1:6:81:ILE:HB	1:6:273:LEU:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:260:VAL:CG1	1:5:328:GLN:CD	2.76	0.59
1:a:230:PHE:CE1	1:a:329:SER:O	2.55	0.59
1:b:312:ASN:ND2	1:e:106:HIS:O	2.36	0.59
1:d:81:ILE:HB	1:d:273:LEU:HB2	1.84	0.59
1:e:285:PHE:HE1	1:q:148:THR:HA	1.68	0.59
1:g:312:ASN:ND2	1:l:106:HIS:O	2.36	0.59
1:l:193:VAL:HG12	1:l:194:SER:O	2.02	0.59
1:n:148:THR:HA	1:z:285:PHE:HE1	1.68	0.59
1:o:260:VAL:CG1	1:o:328:GLN:CD	2.76	0.59
1:v:148:THR:HA	1:w:285:PHE:HE1	1.68	0.59
1:v:260:VAL:CG1	1:v:328:GLN:CD	2.76	0.59
1:z:122:THR:CG2	1:z:123:LYS:N	2.48	0.59
1:z:193:VAL:HG12	1:z:194:SER:O	2.02	0.59
1:A:106:HIS:O	1:F:312:ASN:ND2	2.36	0.58
1:A:193:VAL:HG12	1:A:194:SER:O	2.02	0.58
1:C:212:LYS:NZ	1:M:40:SER:O	2.34	0.58
1:D:106:HIS:O	1:M:312:ASN:ND2	2.36	0.58
1:H:230:PHE:CE1	1:H:329:SER:O	2.55	0.58
1:I:80:MET:SD	1:I:192:THR:OG1	2.61	0.58
1:I:148:THR:HA	1:J:285:PHE:HE1	1.68	0.58
1:I:260:VAL:CG1	1:I:328:GLN:CD	2.76	0.58
1:J:193:VAL:HG12	1:J:194:SER:O	2.02	0.58
1:Q:81:ILE:HB	1:Q:273:LEU:HB2	1.84	0.58
1:U:260:VAL:CG1	1:U:328:GLN:CD	2.76	0.58
1:W:106:HIS:O	1:X:312:ASN:ND2	2.36	0.58
1:Z:177:VAL:HG21	1:Z:340:LYS:HD3	1.84	0.58
1:7:80:MET:SD	1:7:192:THR:OG1	2.61	0.58
1:a:81:ILE:HB	1:a:273:LEU:HB2	1.84	0.58
1:d:230:PHE:CE1	1:d:329:SER:O	2.55	0.58
1:f:177:VAL:HG21	1:f:340:LYS:HD3	1.84	0.58
1:m:260:VAL:CG1	1:m:328:GLN:CD	2.76	0.58
1:o:81:ILE:HB	1:o:273:LEU:HB2	1.84	0.58
1:o:285:PHE:HE1	1:y:148:THR:HA	1.68	0.58
1:p:81:ILE:HB	1:p:273:LEU:HB2	1.84	0.58
1:q:177:VAL:HG21	1:q:340:LYS:HD3	1.84	0.58
1:r:260:VAL:CG1	1:r:328:GLN:CD	2.76	0.58
1:t:212:LYS:NZ	1:v:40:SER:O	2.33	0.58
1:w:260:VAL:CG1	1:w:328:GLN:CD	2.76	0.58
1:A:212:LYS:NZ	1:I:40:SER:O	2.32	0.58
1:B:177:VAL:HG21	1:B:340:LYS:HD3	1.84	0.58
1:C:312:ASN:ND2	1:L:106:HIS:O	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:80:MET:SD	1:E:192:THR:OG1	2.61	0.58
1:F:177:VAL:HG21	1:F:340:LYS:HD3	1.84	0.58
1:G:177:VAL:HG21	1:G:340:LYS:HD3	1.84	0.58
1:H:148:THR:HA	1:I:285:PHE:HE1	1.68	0.58
1:J:106:HIS:O	1:K:312:ASN:ND2	2.36	0.58
1:J:312:ASN:ND2	1:K:106:HIS:O	2.36	0.58
1:M:177:VAL:HG21	1:M:340:LYS:HD3	1.84	0.58
1:M:285:PHE:HE1	1:6:148:THR:HA	1.68	0.58
1:N:260:VAL:CG1	1:N:328:GLN:CD	2.76	0.58
1:Z:122:THR:CG2	1:Z:123:LYS:H	1.93	0.58
1:5:177:VAL:HG21	1:5:340:LYS:HD3	1.84	0.58
1:4:260:VAL:CG1	1:4:328:GLN:CD	2.76	0.58
1:3:260:VAL:CG1	1:3:328:GLN:CD	2.76	0.58
1:f:122:THR:CG2	1:f:123:LYS:H	1.93	0.58
1:g:106:HIS:O	1:l:312:ASN:ND2	2.36	0.58
1:h:260:VAL:CG1	1:h:328:GLN:CD	2.76	0.58
1:i:80:MET:SD	1:i:192:THR:OG1	2.61	0.58
1:i:177:VAL:HG21	1:i:340:LYS:HD3	1.84	0.58
1:i:312:ASN:ND2	1:z:106:HIS:O	2.36	0.58
1:l:285:PHE:HE1	1:r:148:THR:HA	1.68	0.58
1:n:230:PHE:CE1	1:n:329:SER:O	2.55	0.58
1:r:81:ILE:HB	1:r:273:LEU:HB2	1.84	0.58
1:s:193:VAL:HG12	1:s:194:SER:O	2.02	0.58
1:1:260:VAL:CG1	1:1:328:GLN:CD	2.76	0.58
1:2:260:VAL:CG1	1:2:328:GLN:CD	2.76	0.58
1:A:312:ASN:ND2	1:F:106:HIS:O	2.36	0.58
1:B:106:HIS:O	1:I:312:ASN:ND2	2.36	0.58
1:E:106:HIS:O	1:P:312:ASN:ND2	2.36	0.58
1:F:81:ILE:HB	1:F:273:LEU:HB2	1.84	0.58
1:G:260:VAL:CG1	1:G:328:GLN:CD	2.76	0.58
1:I:81:ILE:HB	1:I:273:LEU:HB2	1.84	0.58
1:L:260:VAL:CG1	1:L:328:GLN:CD	2.76	0.58
1:P:148:THR:HA	1:Q:285:PHE:HE1	1.68	0.58
1:Y:260:VAL:CG1	1:Y:328:GLN:CD	2.76	0.58
1:c:260:VAL:CG1	1:c:328:GLN:CD	2.76	0.58
1:d:148:THR:HA	1:r:285:PHE:HE1	1.68	0.58
1:k:177:VAL:HG21	1:k:340:LYS:HD3	1.84	0.58
1:n:106:HIS:O	1:y:312:ASN:ND2	2.36	0.58
1:p:177:VAL:HG21	1:p:340:LYS:HD3	1.84	0.58
1:w:177:VAL:HG21	1:w:340:LYS:HD3	1.84	0.58
1:B:260:VAL:CG1	1:B:328:GLN:CD	2.76	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:122:THR:CG2	1:D:123:LYS:H	1.93	0.58
1:D:177:VAL:HG21	1:D:340:LYS:HD3	1.84	0.58
1:F:260:VAL:CG1	1:F:328:GLN:CD	2.76	0.58
1:K:260:VAL:CG1	1:K:328:GLN:CD	2.76	0.58
1:Z:260:VAL:CG1	1:Z:328:GLN:CD	2.76	0.58
1:7:239:VAL:HG13	1:7:268:MET:CE	2.34	0.58
1:5:122:THR:CG2	1:5:123:LYS:N	2.48	0.58
1:3:212:LYS:NZ	1:a:40:SER:O	2.33	0.58
1:a:260:VAL:CG1	1:a:328:GLN:CD	2.76	0.58
1:b:106:HIS:O	1:e:312:ASN:ND2	2.36	0.58
1:g:260:VAL:CG1	1:g:328:GLN:CD	2.76	0.58
1:j:312:ASN:ND2	1:m:106:HIS:O	2.36	0.58
1:p:260:VAL:CG1	1:p:328:GLN:CD	2.76	0.58
1:q:260:VAL:CG1	1:q:328:GLN:CD	2.76	0.58
1:z:122:THR:CG2	1:z:123:LYS:H	1.93	0.58
1:H:285:PHE:HE1	1:Z:148:THR:HA	1.68	0.58
1:O:177:VAL:HG21	1:O:340:LYS:HD3	1.84	0.58
1:Q:243:ASN:ND2	1:Q:246:MET:CG	2.67	0.58
1:T:177:VAL:HG21	1:T:340:LYS:HD3	1.84	0.58
1:V:81:ILE:HB	1:V:273:LEU:HB2	1.84	0.58
1:V:260:VAL:CG1	1:V:328:GLN:CD	2.76	0.58
1:W:243:ASN:ND2	1:W:246:MET:CG	2.67	0.58
1:W:312:ASN:ND2	1:X:106:HIS:O	2.36	0.58
1:7:243:ASN:ND2	1:7:246:MET:CG	2.67	0.58
1:6:212:LYS:NZ	1:j:40:SER:O	2.33	0.58
1:6:285:PHE:HE1	1:m:148:THR:HA	1.68	0.58
1:c:80:MET:SD	1:c:192:THR:OG1	2.61	0.58
1:f:80:MET:SD	1:f:192:THR:OG1	2.61	0.58
1:f:260:VAL:CG1	1:f:328:GLN:CD	2.76	0.58
1:k:106:HIS:O	1:r:312:ASN:ND2	2.36	0.58
1:o:243:ASN:ND2	1:o:246:MET:CG	2.67	0.58
1:u:260:VAL:CG1	1:u:328:GLN:CD	2.76	0.58
1:y:81:ILE:HB	1:y:273:LEU:HB2	1.84	0.58
1:z:177:VAL:HG21	1:z:340:LYS:HD3	1.84	0.58
1:2:177:VAL:HG21	1:2:340:LYS:HD3	1.84	0.58
1:A:148:THR:HA	1:E:285:PHE:HE1	1.68	0.58
1:D:312:ASN:ND2	1:M:106:HIS:O	2.36	0.58
1:F:148:THR:HA	1:G:285:PHE:HE1	1.68	0.58
1:J:148:THR:HA	1:8:285:PHE:HE1	1.68	0.58
1:K:285:PHE:HE1	1:1:148:THR:HA	1.68	0.58
1:L:243:ASN:ND2	1:L:246:MET:CG	2.67	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:239:VAL:HG13	1:N:268:MET:CE	2.34	0.58
1:O:148:THR:HA	1:P:285:PHE:HE1	1.68	0.58
1:P:122:THR:CG2	1:P:123:LYS:H	1.93	0.58
1:R:177:VAL:HG21	1:R:340:LYS:HD3	1.84	0.58
1:S:106:HIS:O	1:T:312:ASN:ND2	2.36	0.58
1:Y:80:MET:SD	1:Y:192:THR:OG1	2.61	0.58
1:Z:80:MET:SD	1:Z:192:THR:OG1	2.61	0.58
1:6:239:VAL:HG13	1:6:268:MET:CE	2.34	0.58
1:6:243:ASN:ND2	1:6:246:MET:CG	2.67	0.58
1:4:148:THR:HA	1:b:285:PHE:HE1	1.68	0.58
1:e:243:ASN:ND2	1:e:246:MET:CG	2.67	0.58
1:k:260:VAL:CG1	1:k:328:GLN:CD	2.76	0.58
1:r:40:SER:O	1:s:212:LYS:NZ	2.33	0.58
1:v:243:ASN:ND2	1:v:246:MET:CG	2.67	0.58
1:x:177:VAL:HG21	1:x:340:LYS:HD3	1.84	0.58
1:E:212:LYS:NZ	1:F:40:SER:O	2.33	0.58
1:G:239:VAL:HG13	1:G:268:MET:CE	2.34	0.58
1:H:266:ARG:NH2	1:H:360:GLY:O	2.30	0.58
1:K:80:MET:SD	1:K:192:THR:OG1	2.61	0.58
1:K:239:VAL:HG13	1:K:268:MET:CE	2.34	0.58
1:P:81:ILE:HB	1:P:273:LEU:HB2	1.84	0.58
1:R:260:VAL:CG1	1:R:328:GLN:CD	2.76	0.58
1:R:285:PHE:HE1	1:V:148:THR:HA	1.68	0.58
1:S:243:ASN:ND2	1:S:246:MET:CG	2.67	0.58
1:W:177:VAL:HG21	1:W:340:LYS:HD3	1.84	0.58
1:X:260:VAL:CG1	1:X:328:GLN:CD	2.76	0.58
1:8:177:VAL:HG21	1:8:340:LYS:HD3	1.84	0.58
1:d:285:PHE:HE1	1:f:148:THR:HA	1.68	0.58
1:e:177:VAL:HG21	1:e:340:LYS:HD3	1.84	0.58
1:g:40:SER:O	1:h:212:LYS:NZ	2.33	0.58
1:g:177:VAL:HG21	1:g:340:LYS:HD3	1.84	0.58
1:h:285:PHE:HE1	1:l:148:THR:HA	1.68	0.58
1:i:106:HIS:O	1:z:312:ASN:ND2	2.36	0.58
1:m:239:VAL:HG13	1:m:268:MET:CE	2.34	0.58
1:n:285:PHE:HE1	1:s:148:THR:HA	1.68	0.58
1:t:239:VAL:HG13	1:t:268:MET:CE	2.34	0.58
1:v:106:HIS:O	1:x:312:ASN:ND2	2.36	0.58
1:1:239:VAL:HG13	1:1:268:MET:CE	2.34	0.58
1:H:239:VAL:HG13	1:H:268:MET:CE	2.34	0.58
1:K:177:VAL:HG21	1:K:340:LYS:HD3	1.84	0.58
1:L:122:THR:CG2	1:L:123:LYS:H	1.93	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:106:HIS:O	1:V:312:ASN:ND2	2.36	0.58
1:U:239:VAL:HG13	1:U:268:MET:CE	2.34	0.58
1:W:260:VAL:CG1	1:W:328:GLN:CD	2.76	0.58
1:Y:239:VAL:HG13	1:Y:268:MET:CE	2.34	0.58
1:4:312:ASN:ND2	1:3:106:HIS:O	2.36	0.58
1:a:312:ASN:ND2	1:t:106:HIS:O	2.36	0.58
1:g:239:VAL:HG13	1:g:268:MET:CE	2.34	0.58
1:h:177:VAL:HG21	1:h:340:LYS:HD3	1.84	0.58
1:q:239:VAL:HG13	1:q:268:MET:CE	2.34	0.58
1:u:177:VAL:HG21	1:u:340:LYS:HD3	1.84	0.58
1:y:40:SER:O	1:z:212:LYS:NZ	2.34	0.58
1:y:285:PHE:HE1	1:2:148:THR:HA	1.68	0.58
1:1:106:HIS:O	1:2:312:ASN:ND2	2.36	0.58
1:C:285:PHE:HE1	1:D:148:THR:HA	1.68	0.58
1:L:239:VAL:HG13	1:L:268:MET:CE	2.34	0.58
1:M:165:GLN:OE1	1:7:322:ASN:ND2	2.36	0.58
1:N:106:HIS:O	1:O:312:ASN:ND2	2.36	0.58
1:N:148:THR:HA	1:g:285:PHE:HE1	1.68	0.58
1:4:106:HIS:O	1:3:312:ASN:ND2	2.36	0.58
1:4:239:VAL:HG13	1:4:268:MET:CE	2.34	0.58
1:3:239:VAL:HG13	1:3:268:MET:CE	2.34	0.58
1:c:243:ASN:ND2	1:c:246:MET:CG	2.67	0.58
1:j:285:PHE:HE1	1:z:148:THR:HA	1.68	0.58
1:u:239:VAL:HG13	1:u:268:MET:CE	2.34	0.58
1:w:122:THR:CG2	1:w:123:LYS:N	2.48	0.58
1:y:243:ASN:ND2	1:y:246:MET:CG	2.67	0.58
1:B:285:PHE:HE1	1:C:148:THR:HA	1.68	0.58
1:D:212:LYS:NZ	1:P:40:SER:O	2.34	0.58
1:D:243:ASN:ND2	1:D:246:MET:CG	2.67	0.58
1:K:40:SER:O	1:8:212:LYS:NZ	2.33	0.58
1:P:243:ASN:ND2	1:P:246:MET:CG	2.67	0.58
1:P:260:VAL:CG1	1:P:328:GLN:CD	2.76	0.58
1:R:239:VAL:HG13	1:R:268:MET:CE	2.34	0.58
1:U:81:ILE:HB	1:U:273:LEU:HB2	1.84	0.58
1:X:285:PHE:HE1	1:3:148:THR:HA	1.68	0.58
1:Y:243:ASN:ND2	1:Y:246:MET:CG	2.67	0.58
1:a:148:THR:HA	1:u:285:PHE:HE1	1.68	0.58
1:b:260:VAL:CG1	1:b:328:GLN:CD	2.76	0.58
1:c:239:VAL:HG13	1:c:268:MET:CE	2.34	0.58
1:j:148:THR:HA	1:k:285:PHE:HE1	1.68	0.58
1:j:239:VAL:HG13	1:j:268:MET:CE	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:260:VAL:CG1	1:s:328:GLN:CD	2.76	0.58
1:A:260:VAL:CG1	1:A:328:GLN:CD	2.76	0.57
1:C:239:VAL:HG13	1:C:268:MET:CE	2.34	0.57
1:C:243:ASN:ND2	1:C:246:MET:CG	2.67	0.57
1:E:260:VAL:CG1	1:E:328:GLN:CD	2.76	0.57
1:M:260:VAL:CG1	1:M:328:GLN:CD	2.76	0.57
1:O:239:VAL:HG13	1:O:268:MET:CE	2.34	0.57
1:4:243:ASN:ND2	1:4:246:MET:CG	2.67	0.57
1:3:243:ASN:ND2	1:3:246:MET:CG	2.66	0.57
1:c:40:SER:O	1:d:212:LYS:NZ	2.33	0.57
1:d:260:VAL:CG1	1:d:328:GLN:CD	2.76	0.57
1:i:260:VAL:CG1	1:i:328:GLN:CD	2.76	0.57
1:j:243:ASN:ND2	1:j:246:MET:CG	2.67	0.57
1:n:212:LYS:NZ	1:p:40:SER:O	2.33	0.57
1:n:260:VAL:CG1	1:n:328:GLN:CD	2.76	0.57
1:v:312:ASN:ND2	1:x:106:HIS:O	2.36	0.57
1:z:243:ASN:ND2	1:z:246:MET:CG	2.67	0.57
1:2:239:VAL:HG13	1:2:268:MET:CE	2.34	0.57
1:H:212:LYS:NZ	1:Y:40:SER:O	2.33	0.57
1:H:260:VAL:CG1	1:H:328:GLN:CD	2.76	0.57
1:S:312:ASN:ND2	1:T:106:HIS:O	2.36	0.57
1:5:106:HIS:O	1:h:312:ASN:ND2	2.37	0.57
1:a:239:VAL:HG13	1:a:268:MET:CE	2.34	0.57
1:e:260:VAL:CG1	1:e:328:GLN:CD	2.76	0.57
1:m:122:THR:CG2	1:m:123:LYS:H	1.93	0.57
1:y:260:VAL:CG1	1:y:328:GLN:CD	2.76	0.57
1:2:243:ASN:ND2	1:2:246:MET:CG	2.67	0.57
1:A:173:LYS:HB2	1:A:176:THR:HG22	1.87	0.57
1:C:173:LYS:HB2	1:C:176:THR:HG22	1.87	0.57
1:Q:312:ASN:ND2	1:R:106:HIS:O	2.36	0.57
1:T:148:THR:HA	1:U:285:PHE:HE1	1.68	0.57
1:V:239:VAL:HG13	1:V:268:MET:CE	2.34	0.57
1:V:243:ASN:ND2	1:V:246:MET:CG	2.67	0.57
1:Y:173:LYS:HB2	1:Y:176:THR:HG22	1.87	0.57
1:8:239:VAL:HG13	1:8:268:MET:CE	2.34	0.57
1:8:312:ASN:ND2	1:w:106:HIS:O	2.37	0.57
1:c:173:LYS:HB2	1:c:176:THR:HG22	1.87	0.57
1:m:266:ARG:NH2	1:m:360:GLY:O	2.29	0.57
1:o:312:ASN:ND2	1:u:106:HIS:O	2.36	0.57
1:s:173:LYS:HB2	1:s:176:THR:HG22	1.87	0.57
1:t:81:ILE:HB	1:t:273:LEU:HB2	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:239:VAL:HG13	1:x:268:MET:CE	2.34	0.57
1:E:243:ASN:ND2	1:E:246:MET:CG	2.67	0.57
1:O:243:ASN:ND2	1:O:246:MET:CG	2.67	0.57
1:O:285:PHE:HE1	1:5:148:THR:HA	1.69	0.57
1:T:239:VAL:HG13	1:T:268:MET:CE	2.34	0.57
1:U:173:LYS:HB2	1:U:176:THR:HG22	1.87	0.57
1:8:106:HIS:O	1:w:312:ASN:ND2	2.37	0.57
1:8:173:LYS:HB2	1:8:176:THR:HG22	1.87	0.57
1:5:312:ASN:ND2	1:h:106:HIS:O	2.37	0.57
1:a:243:ASN:ND2	1:a:246:MET:CG	2.67	0.57
1:a:285:PHE:HE1	1:e:148:THR:HA	1.68	0.57
1:h:239:VAL:HG13	1:h:268:MET:CE	2.34	0.57
1:i:243:ASN:ND2	1:i:246:MET:CG	2.67	0.57
1:j:106:HIS:O	1:m:312:ASN:ND2	2.36	0.57
1:j:173:LYS:HB2	1:j:176:THR:HG22	1.87	0.57
1:y:122:THR:CG2	1:y:123:LYS:H	1.93	0.57
1:y:177:VAL:HG21	1:y:340:LYS:HD3	1.84	0.57
1:A:249:VAL:HG23	1:A:328:GLN:HB3	1.87	0.57
1:C:106:HIS:O	1:L:312:ASN:ND2	2.36	0.57
1:C:322:ASN:ND2	1:7:165:GLN:OE1	2.37	0.57
1:D:322:ASN:ND2	1:N:165:GLN:OE1	2.38	0.57
1:E:173:LYS:HB2	1:E:176:THR:HG22	1.87	0.57
1:F:173:LYS:HB2	1:F:176:THR:HG22	1.87	0.57
1:H:249:VAL:HG23	1:H:328:GLN:HB3	1.87	0.57
1:I:249:VAL:HG23	1:I:328:GLN:HB3	1.87	0.57
1:L:266:ARG:NH2	1:L:360:GLY:O	2.30	0.57
1:M:243:ASN:ND2	1:M:246:MET:CG	2.67	0.57
1:Q:239:VAL:HG13	1:Q:268:MET:CE	2.34	0.57
1:Q:249:VAL:HG23	1:Q:328:GLN:HB3	1.87	0.57
1:S:239:VAL:HG13	1:S:268:MET:CE	2.34	0.57
1:V:212:LYS:NZ	1:X:40:SER:O	2.34	0.57
1:a:212:LYS:NZ	1:b:40:SER:O	2.34	0.57
1:d:249:VAL:HG23	1:d:328:GLN:HB3	1.87	0.57
1:h:173:LYS:HB2	1:h:176:THR:HG22	1.87	0.57
1:n:243:ASN:ND2	1:n:246:MET:CG	2.67	0.57
1:o:249:VAL:HG23	1:o:328:GLN:HB3	1.87	0.57
1:p:173:LYS:HB2	1:p:176:THR:HG22	1.87	0.57
1:r:249:VAL:HG23	1:r:328:GLN:HB3	1.87	0.57
1:s:249:VAL:HG23	1:s:328:GLN:HB3	1.87	0.57
1:w:148:THR:HA	1:2:285:PHE:HE1	1.69	0.57
1:z:260:VAL:CG1	1:z:328:GLN:CD	2.76	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:322:ASN:ND2	1:1:165:GLN:OE1	2.38	0.57
1:D:260:VAL:CG1	1:D:328:GLN:CD	2.76	0.57
1:K:249:VAL:HG23	1:K:328:GLN:HB3	1.87	0.57
1:N:173:LYS:HB2	1:N:176:THR:HG22	1.87	0.57
1:P:177:VAL:HG21	1:P:340:LYS:HD3	1.84	0.57
1:V:285:PHE:HE1	1:W:148:THR:HA	1.68	0.57
1:W:173:LYS:HB2	1:W:176:THR:HG22	1.87	0.57
1:X:249:VAL:HG23	1:X:328:GLN:HB3	1.87	0.57
1:5:80:MET:SD	1:5:192:THR:OG1	2.61	0.57
1:b:173:LYS:HB2	1:b:176:THR:HG22	1.87	0.57
1:e:173:LYS:HB2	1:e:176:THR:HG22	1.87	0.57
1:i:239:VAL:HG13	1:i:268:MET:CE	2.34	0.57
1:n:173:LYS:HB2	1:n:176:THR:HG22	1.87	0.57
1:n:322:ASN:ND2	1:o:165:GLN:OE1	2.38	0.57
1:o:106:HIS:O	1:u:312:ASN:ND2	2.36	0.57
1:o:239:VAL:HG13	1:o:268:MET:CE	2.34	0.57
1:p:239:VAL:HG13	1:p:268:MET:CE	2.34	0.57
1:q:243:ASN:ND2	1:q:246:MET:CG	2.67	0.57
1:r:239:VAL:HG13	1:r:268:MET:CE	2.34	0.57
1:t:173:LYS:HB2	1:t:176:THR:HG22	1.87	0.57
1:t:285:PHE:HE1	1:x:148:THR:HA	1.68	0.57
1:w:80:MET:SD	1:w:192:THR:OG1	2.61	0.57
1:1:173:LYS:HB2	1:1:176:THR:HG22	1.87	0.57
1:B:322:ASN:ND2	1:J:165:GLN:OE1	2.38	0.57
1:E:249:VAL:HG23	1:E:328:GLN:HB3	1.87	0.57
1:E:322:ASN:ND2	1:Q:165:GLN:OE1	2.38	0.57
1:F:239:VAL:HG13	1:F:268:MET:CE	2.34	0.57
1:G:243:ASN:ND2	1:G:246:MET:CG	2.67	0.57
1:I:239:VAL:HG13	1:I:268:MET:CE	2.34	0.57
1:J:230:PHE:CD2	1:J:330:TYR:CE1	2.93	0.57
1:K:230:PHE:CD2	1:K:330:TYR:CE1	2.93	0.57
1:M:239:VAL:HG13	1:M:268:MET:CE	2.34	0.57
1:Q:80:MET:SD	1:Q:192:THR:OG1	2.61	0.57
1:Q:106:HIS:O	1:R:312:ASN:ND2	2.36	0.57
1:T:322:ASN:ND2	1:5:165:GLN:OE1	2.38	0.57
1:X:173:LYS:HB2	1:X:176:THR:HG22	1.87	0.57
1:Y:249:VAL:HG23	1:Y:328:GLN:HB3	1.87	0.57
1:4:173:LYS:HB2	1:4:176:THR:HG22	1.87	0.57
1:4:249:VAL:HG23	1:4:328:GLN:HB3	1.87	0.57
1:3:173:LYS:HB2	1:3:176:THR:HG22	1.87	0.57
1:3:249:VAL:HG23	1:3:328:GLN:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:249:VAL:HG23	1:g:328:GLN:HB3	1.87	0.57
1:k:173:LYS:HB2	1:k:176:THR:HG22	1.87	0.57
1:l:230:PHE:CD2	1:l:330:TYR:CE1	2.93	0.57
1:r:243:ASN:ND2	1:r:246:MET:CG	2.67	0.57
1:v:239:VAL:HG13	1:v:268:MET:CE	2.34	0.57
1:x:230:PHE:CD2	1:x:330:TYR:CE1	2.93	0.57
1:z:173:LYS:HB2	1:z:176:THR:HG22	1.87	0.57
1:B:173:LYS:HB2	1:B:176:THR:HG22	1.87	0.57
1:B:239:VAL:HG13	1:B:268:MET:CE	2.34	0.57
1:C:230:PHE:CD2	1:C:330:TYR:CE1	2.93	0.57
1:D:173:LYS:HB2	1:D:176:THR:HG22	1.87	0.57
1:D:239:VAL:HG13	1:D:268:MET:CE	2.34	0.57
1:I:243:ASN:ND2	1:I:246:MET:CG	2.67	0.57
1:J:322:ASN:ND2	1:L:165:GLN:OE1	2.38	0.57
1:K:173:LYS:HB2	1:K:176:THR:HG22	1.87	0.57
1:M:230:PHE:CD2	1:M:330:TYR:CE1	2.93	0.57
1:Q:230:PHE:CD2	1:Q:330:TYR:CE1	2.93	0.57
1:T:230:PHE:CD2	1:T:330:TYR:CE1	2.93	0.57
1:X:239:VAL:HG13	1:X:268:MET:CE	2.34	0.57
1:8:80:MET:SD	1:8:192:THR:OG1	2.61	0.57
1:3:322:ASN:ND2	1:b:165:GLN:OE1	2.37	0.57
1:b:239:VAL:HG13	1:b:268:MET:CE	2.34	0.57
1:b:249:VAL:HG23	1:b:328:GLN:HB3	1.87	0.57
1:c:249:VAL:HG23	1:c:328:GLN:HB3	1.87	0.57
1:d:322:ASN:ND2	1:e:165:GLN:OE1	2.38	0.57
1:f:285:PHE:HE1	1:h:148:THR:HA	1.69	0.57
1:g:230:PHE:CD2	1:g:330:TYR:CE1	2.93	0.57
1:h:80:MET:SD	1:h:192:THR:OG1	2.61	0.57
1:j:230:PHE:CD2	1:j:330:TYR:CE1	2.93	0.57
1:k:322:ASN:ND2	1:l:165:GLN:OE1	2.38	0.57
1:l:322:ASN:ND2	1:m:165:GLN:OE1	2.38	0.57
1:w:165:GLN:OE1	1:x:322:ASN:ND2	2.38	0.57
1:z:239:VAL:HG13	1:z:268:MET:CE	2.34	0.57
1:C:80:MET:SD	1:C:192:THR:OG1	2.61	0.57
1:C:249:VAL:HG23	1:C:328:GLN:HB3	1.87	0.57
1:H:322:ASN:ND2	1:W:165:GLN:OE1	2.38	0.57
1:K:243:ASN:ND2	1:K:246:MET:CG	2.67	0.57
1:P:270:GLY:CA	1:P:346:PHE:CD1	2.87	0.57
1:T:80:MET:SD	1:T:192:THR:OG1	2.61	0.57
1:U:249:VAL:HG23	1:U:328:GLN:HB3	1.87	0.57
1:Z:285:PHE:HE1	1:8:148:THR:HA	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:173:LYS:HB2	1:7:176:THR:HG22	1.87	0.57
1:7:249:VAL:HG23	1:7:328:GLN:HB3	1.87	0.57
1:6:165:GLN:OE1	1:j:322:ASN:ND2	2.38	0.57
1:g:173:LYS:HB2	1:g:176:THR:HG22	1.87	0.57
1:i:230:PHE:CD2	1:i:330:TYR:CE1	2.93	0.57
1:k:239:VAL:HG13	1:k:268:MET:CE	2.34	0.57
1:n:249:VAL:HG23	1:n:328:GLN:HB3	1.87	0.57
1:o:230:PHE:CD2	1:o:330:TYR:CE1	2.93	0.57
1:x:80:MET:SD	1:x:192:THR:OG1	2.61	0.57
1:y:80:MET:SD	1:y:192:THR:OG1	2.61	0.57
1:I:230:PHE:CD2	1:I:330:TYR:CE1	2.93	0.57
1:N:243:ASN:ND2	1:N:246:MET:CG	2.67	0.57
1:O:230:PHE:CD2	1:O:330:TYR:CE1	2.93	0.57
1:P:80:MET:SD	1:P:192:THR:OG1	2.61	0.57
1:S:270:GLY:CA	1:S:346:PHE:CD1	2.87	0.57
1:T:158:ILE:HG12	1:T:210:TYR:CD1	2.40	0.57
1:Y:266:ARG:NH2	1:Y:360:GLY:O	2.30	0.57
1:6:173:LYS:HB2	1:6:176:THR:HG22	1.87	0.57
1:6:249:VAL:HG23	1:6:328:GLN:HB3	1.87	0.57
1:e:239:VAL:HG13	1:e:268:MET:CE	2.34	0.57
1:i:322:ASN:ND2	1:j:165:GLN:OE1	2.38	0.57
1:j:249:VAL:HG23	1:j:328:GLN:HB3	1.87	0.57
1:n:239:VAL:HG13	1:n:268:MET:CE	2.34	0.57
1:r:230:PHE:CD2	1:r:330:TYR:CE1	2.93	0.57
1:t:249:VAL:HG23	1:t:328:GLN:HB3	1.87	0.57
1:x:158:ILE:HG12	1:x:210:TYR:CD1	2.40	0.57
1:y:322:ASN:ND2	1:z:165:GLN:OE1	2.38	0.57
1:1:243:ASN:ND2	1:1:246:MET:CG	2.67	0.57
1:2:230:PHE:CD2	1:2:330:TYR:CE1	2.93	0.57
1:A:230:PHE:CD2	1:A:330:TYR:CE1	2.93	0.56
1:D:165:GLN:OE1	1:P:322:ASN:ND2	2.38	0.56
1:G:158:ILE:HG12	1:G:210:TYR:CD1	2.40	0.56
1:J:158:ILE:HG12	1:J:210:TYR:CD1	2.40	0.56
1:O:249:VAL:HG23	1:O:328:GLN:HB3	1.87	0.56
1:S:158:ILE:HG12	1:S:210:TYR:CD1	2.40	0.56
1:S:173:LYS:HB2	1:S:176:THR:HG22	1.87	0.56
1:W:239:VAL:HG13	1:W:268:MET:CE	2.34	0.56
1:X:165:GLN:OE1	1:4:322:ASN:ND2	2.38	0.56
1:Y:158:ILE:HG12	1:Y:210:TYR:CD1	2.40	0.56
1:Z:239:VAL:HG13	1:Z:268:MET:CE	2.34	0.56
1:7:106:HIS:O	1:6:312:ASN:ND2	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:230:PHE:CD2	1:7:330:TYR:CE1	2.93	0.56
1:5:239:VAL:HG13	1:5:268:MET:CE	2.34	0.56
1:c:158:ILE:HG12	1:c:210:TYR:CD1	2.40	0.56
1:d:239:VAL:HG13	1:d:268:MET:CE	2.34	0.56
1:g:243:ASN:ND2	1:g:246:MET:CG	2.67	0.56
1:l:158:ILE:HG12	1:l:210:TYR:CD1	2.40	0.56
1:l:239:VAL:HG13	1:l:268:MET:CE	2.34	0.56
1:v:158:ILE:HG12	1:v:210:TYR:CD1	2.40	0.56
1:y:158:ILE:HG12	1:y:210:TYR:CD1	2.40	0.56
1:y:165:GLN:OE1	1:1:322:ASN:ND2	2.38	0.56
1:y:270:GLY:CA	1:y:346:PHE:CD1	2.87	0.56
1:A:158:ILE:HG12	1:A:210:TYR:CD1	2.40	0.56
1:C:165:GLN:OE1	1:M:322:ASN:ND2	2.39	0.56
1:E:239:VAL:HG13	1:E:268:MET:CE	2.34	0.56
1:G:80:MET:SD	1:G:192:THR:OG1	2.61	0.56
1:G:266:ARG:NH2	1:G:360:GLY:O	2.30	0.56
1:H:165:GLN:OE1	1:Y:322:ASN:ND2	2.38	0.56
1:J:239:VAL:HG13	1:J:268:MET:CE	2.34	0.56
1:K:182:SER:OG	1:K:187:ASP:OD2	2.23	0.56
1:P:158:ILE:HG12	1:P:210:TYR:CD1	2.40	0.56
1:R:165:GLN:OE1	1:U:322:ASN:ND2	2.38	0.56
1:U:158:ILE:HG12	1:U:210:TYR:CD1	2.40	0.56
1:X:158:ILE:HG12	1:X:210:TYR:CD1	2.40	0.56
1:Z:158:ILE:HG12	1:Z:210:TYR:CD1	2.40	0.56
1:Z:243:ASN:ND2	1:Z:246:MET:CG	2.67	0.56
1:7:158:ILE:HG12	1:7:210:TYR:CD1	2.41	0.56
1:6:158:ILE:HG12	1:6:210:TYR:CD1	2.40	0.56
1:b:158:ILE:HG12	1:b:210:TYR:CD1	2.40	0.56
1:f:239:VAL:HG13	1:f:268:MET:CE	2.34	0.56
1:g:322:ASN:ND2	1:h:165:GLN:OE1	2.38	0.56
1:k:312:ASN:ND2	1:r:106:HIS:O	2.36	0.56
1:q:80:MET:SD	1:q:192:THR:OG1	2.61	0.56
1:q:158:ILE:HG12	1:q:210:TYR:CD1	2.40	0.56
1:q:165:GLN:OE1	1:s:322:ASN:ND2	2.38	0.56
1:q:230:PHE:CD2	1:q:330:TYR:CE1	2.93	0.56
1:r:173:LYS:HB2	1:r:176:THR:HG22	1.87	0.56
1:s:158:ILE:HG12	1:s:210:TYR:CD1	2.40	0.56
1:s:230:PHE:CD2	1:s:330:TYR:CE1	2.93	0.56
1:t:158:ILE:HG12	1:t:210:TYR:CD1	2.40	0.56
1:t:322:ASN:ND2	1:u:165:GLN:OE1	2.38	0.56
1:u:322:ASN:ND2	1:v:165:GLN:OE1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:173:LYS:HB2	1:v:176:THR:HG22	1.87	0.56
1:v:270:GLY:CA	1:v:346:PHE:CD1	2.87	0.56
1:w:230:PHE:CD2	1:w:330:TYR:CE1	2.93	0.56
1:x:122:THR:CG2	1:x:123:LYS:N	2.48	0.56
1:2:249:VAL:HG23	1:2:328:GLN:HB3	1.87	0.56
1:A:239:VAL:HG13	1:A:268:MET:CE	2.34	0.56
1:A:322:ASN:ND2	1:G:165:GLN:OE1	2.38	0.56
1:B:270:GLY:CA	1:B:346:PHE:CD1	2.87	0.56
1:B:312:ASN:ND2	1:I:106:HIS:O	2.36	0.56
1:E:158:ILE:HG12	1:E:210:TYR:CD1	2.40	0.56
1:F:165:GLN:OE1	1:Q:322:ASN:ND2	2.38	0.56
1:F:243:ASN:ND2	1:F:246:MET:CG	2.67	0.56
1:G:322:ASN:ND2	1:I:165:GLN:OE1	2.38	0.56
1:I:173:LYS:HB2	1:I:176:THR:HG22	1.87	0.56
1:J:80:MET:SD	1:J:192:THR:OG1	2.61	0.56
1:K:270:GLY:CA	1:K:346:PHE:CD1	2.87	0.56
1:K:322:ASN:ND2	1:8:165:GLN:OE1	2.38	0.56
1:L:173:LYS:HB2	1:L:176:THR:HG22	1.87	0.56
1:L:230:PHE:CD2	1:L:330:TYR:CE1	2.93	0.56
1:N:158:ILE:HG12	1:N:210:TYR:CD1	2.40	0.56
1:N:322:ASN:ND2	1:P:165:GLN:OE1	2.38	0.56
1:P:230:PHE:CD2	1:P:330:TYR:CE1	2.93	0.56
1:R:230:PHE:CD2	1:R:330:TYR:CE1	2.93	0.56
1:R:322:ASN:ND2	1:S:165:GLN:OE1	2.38	0.56
1:S:249:VAL:HG23	1:S:328:GLN:HB3	1.87	0.56
1:S:266:ARG:NH2	1:S:360:GLY:O	2.29	0.56
1:T:122:THR:CG2	1:T:123:LYS:N	2.48	0.56
1:T:173:LYS:HB2	1:T:176:THR:HG22	1.87	0.56
1:U:230:PHE:CD2	1:U:330:TYR:CE1	2.93	0.56
1:W:230:PHE:CD2	1:W:330:TYR:CE1	2.93	0.56
1:X:80:MET:SD	1:X:192:THR:OG1	2.61	0.56
1:X:230:PHE:CD2	1:X:330:TYR:CE1	2.93	0.56
1:Y:230:PHE:CD2	1:Y:330:TYR:CE1	2.93	0.56
1:Z:230:PHE:CD2	1:Z:330:TYR:CE1	2.93	0.56
1:8:249:VAL:HG23	1:8:328:GLN:HB3	1.87	0.56
1:6:40:SER:O	1:i:212:LYS:NZ	2.33	0.56
1:6:230:PHE:CD2	1:6:330:TYR:CE1	2.93	0.56
1:6:322:ASN:ND2	1:i:165:GLN:OE1	2.38	0.56
1:5:230:PHE:CD2	1:5:330:TYR:CE1	2.93	0.56
1:5:322:ASN:ND2	1:f:165:GLN:OE1	2.38	0.56
1:b:80:MET:SD	1:b:192:THR:OG1	2.61	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:230:PHE:CD2	1:b:330:TYR:CE1	2.93	0.56
1:c:230:PHE:CD2	1:c:330:TYR:CE1	2.93	0.56
1:c:266:ARG:NH2	1:c:360:GLY:O	2.30	0.56
1:c:322:ASN:ND2	1:d:165:GLN:OE1	2.38	0.56
1:f:158:ILE:HG12	1:f:210:TYR:CD1	2.40	0.56
1:f:230:PHE:CD2	1:f:330:TYR:CE1	2.93	0.56
1:f:243:ASN:ND2	1:f:246:MET:CG	2.67	0.56
1:g:270:GLY:CA	1:g:346:PHE:CD1	2.87	0.56
1:h:158:ILE:HG12	1:h:210:TYR:CD1	2.40	0.56
1:h:249:VAL:HG23	1:h:328:GLN:HB3	1.87	0.56
1:j:80:MET:SD	1:j:192:THR:OG1	2.61	0.56
1:j:158:ILE:HG12	1:j:210:TYR:CD1	2.40	0.56
1:k:230:PHE:CD2	1:k:330:TYR:CE1	2.93	0.56
1:m:230:PHE:CD2	1:m:330:TYR:CE1	2.93	0.56
1:q:266:ARG:NH2	1:q:360:GLY:O	2.29	0.56
1:q:322:ASN:ND2	1:r:165:GLN:OE1	2.38	0.56
1:t:230:PHE:CD2	1:t:330:TYR:CE1	2.93	0.56
1:u:230:PHE:CD2	1:u:330:TYR:CE1	2.93	0.56
1:w:239:VAL:HG13	1:w:268:MET:CE	2.34	0.56
1:1:158:ILE:HG12	1:1:210:TYR:CD1	2.40	0.56
1:B:230:PHE:CD2	1:B:330:TYR:CE1	2.93	0.56
1:B:249:VAL:HG23	1:B:328:GLN:HB3	1.87	0.56
1:D:230:PHE:CD2	1:D:330:TYR:CE1	2.93	0.56
1:G:230:PHE:CD2	1:G:330:TYR:CE1	2.93	0.56
1:V:173:LYS:HB2	1:V:176:THR:HG22	1.87	0.56
1:Z:165:GLN:OE1	1:w:322:ASN:ND2	2.38	0.56
1:8:158:ILE:HG12	1:8:210:TYR:CD1	2.41	0.56
1:7:148:THR:HA	1:i:285:PHE:HE1	1.70	0.56
1:5:243:ASN:ND2	1:5:246:MET:CG	2.67	0.56
1:4:230:PHE:CD2	1:4:330:TYR:CE1	2.93	0.56
1:a:173:LYS:HB2	1:a:176:THR:HG22	1.87	0.56
1:e:230:PHE:CD2	1:e:330:TYR:CE1	2.93	0.56
1:v:249:VAL:HG23	1:v:328:GLN:HB3	1.87	0.56
1:x:173:LYS:HB2	1:x:176:THR:HG22	1.87	0.56
1:B:158:ILE:HG12	1:B:210:TYR:CD1	2.40	0.56
1:B:165:GLN:OE1	1:L:322:ASN:ND2	2.38	0.56
1:C:158:ILE:HG12	1:C:210:TYR:CD1	2.41	0.56
1:F:249:VAL:HG23	1:F:328:GLN:HB3	1.87	0.56
1:N:249:VAL:HG23	1:N:328:GLN:HB3	1.87	0.56
1:P:239:VAL:HG13	1:P:268:MET:CE	2.34	0.56
1:S:230:PHE:CD2	1:S:330:TYR:CE1	2.93	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:249:VAL:HG23	1:V:328:GLN:HB3	1.87	0.56
1:W:322:ASN:ND2	1:Y:165:GLN:OE1	2.38	0.56
1:8:243:ASN:ND2	1:8:246:MET:CG	2.67	0.56
1:3:230:PHE:CD2	1:3:330:TYR:CE1	2.93	0.56
1:c:165:GLN:OE1	1:e:322:ASN:ND2	2.38	0.56
1:e:158:ILE:HG12	1:e:210:TYR:CD1	2.40	0.56
1:i:249:VAL:HG23	1:i:328:GLN:HB3	1.87	0.56
1:k:165:GLN:OE1	1:m:322:ASN:ND2	2.38	0.56
1:k:270:GLY:CA	1:k:346:PHE:CD1	2.87	0.56
1:l:80:MET:SD	1:l:192:THR:OG1	2.61	0.56
1:m:173:LYS:HB2	1:m:176:THR:HG22	1.87	0.56
1:n:158:ILE:HG12	1:n:210:TYR:CD1	2.41	0.56
1:p:230:PHE:CD2	1:p:330:TYR:CE1	2.93	0.56
1:p:243:ASN:ND2	1:p:246:MET:CG	2.67	0.56
1:p:249:VAL:HG23	1:p:328:GLN:HB3	1.87	0.56
1:s:239:VAL:HG13	1:s:268:MET:CE	2.34	0.56
1:y:230:PHE:CD2	1:y:330:TYR:CE1	2.93	0.56
1:z:230:PHE:CD2	1:z:330:TYR:CE1	2.93	0.56
1:F:230:PHE:CD2	1:F:330:TYR:CE1	2.93	0.56
1:K:158:ILE:HG12	1:K:210:TYR:CD1	2.40	0.56
1:M:249:VAL:HG23	1:M:328:GLN:HB3	1.87	0.56
1:P:173:LYS:HB2	1:P:176:THR:HG22	1.87	0.56
1:6:270:GLY:CA	1:6:346:PHE:CD1	2.87	0.56
1:5:173:LYS:HB2	1:5:176:THR:HG22	1.86	0.56
1:5:249:VAL:HG23	1:5:328:GLN:HB3	1.87	0.56
1:3:158:ILE:HG12	1:3:210:TYR:CD1	2.40	0.56
1:a:165:GLN:OE1	1:b:322:ASN:ND2	2.38	0.56
1:a:249:VAL:HG23	1:a:328:GLN:HB3	1.87	0.56
1:h:243:ASN:ND2	1:h:246:MET:CG	2.67	0.56
1:k:158:ILE:HG12	1:k:210:TYR:CD1	2.40	0.56
1:k:249:VAL:HG23	1:k:328:GLN:HB3	1.87	0.56
1:n:230:PHE:CD2	1:n:330:TYR:CE1	2.93	0.56
1:o:158:ILE:HG12	1:o:210:TYR:CD1	2.40	0.56
1:t:165:GLN:OE1	1:v:322:ASN:ND2	2.38	0.56
1:u:173:LYS:HB2	1:u:176:THR:HG22	1.87	0.56
1:v:230:PHE:CD2	1:v:330:TYR:CE1	2.93	0.56
1:v:266:ARG:NH2	1:v:360:GLY:O	2.29	0.56
1:w:158:ILE:HG12	1:w:210:TYR:CD1	2.40	0.56
1:w:173:LYS:HB2	1:w:176:THR:HG22	1.87	0.56
1:w:243:ASN:ND2	1:w:246:MET:CG	2.67	0.56
1:w:249:VAL:HG23	1:w:328:GLN:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:239:VAL:HG13	1:y:268:MET:CE	2.34	0.56
1:1:249:VAL:HG23	1:1:328:GLN:HB3	1.87	0.56
1:2:266:ARG:NH2	1:2:360:GLY:O	2.29	0.56
1:E:230:PHE:CD2	1:E:330:TYR:CE1	2.93	0.56
1:H:230:PHE:CD2	1:H:330:TYR:CE1	2.93	0.56
1:J:249:VAL:HG23	1:J:328:GLN:HB3	1.87	0.56
1:Q:158:ILE:HG12	1:Q:210:TYR:CD1	2.41	0.56
1:R:173:LYS:HB2	1:R:176:THR:HG22	1.87	0.56
1:R:249:VAL:HG23	1:R:328:GLN:HB3	1.87	0.56
1:S:322:ASN:ND2	1:U:165:GLN:OE1	2.38	0.56
1:U:80:MET:SD	1:U:192:THR:OG1	2.61	0.56
1:V:165:GLN:OE1	1:X:322:ASN:ND2	2.38	0.56
1:W:158:ILE:HG12	1:W:210:TYR:CD1	2.40	0.56
1:5:158:ILE:HG12	1:5:210:TYR:CD1	2.40	0.56
1:5:266:ARG:NH2	1:5:360:GLY:O	2.29	0.56
1:d:230:PHE:CD2	1:d:330:TYR:CE1	2.93	0.56
1:g:158:ILE:HG12	1:g:210:TYR:CD1	2.40	0.56
1:h:230:PHE:CD2	1:h:330:TYR:CE1	2.93	0.56
1:i:173:LYS:HB2	1:i:176:THR:HG22	1.87	0.56
1:t:243:ASN:ND2	1:t:246:MET:CG	2.67	0.56
1:2:173:LYS:HB2	1:2:176:THR:HG22	1.87	0.56
1:E:165:GLN:OE1	1:F:322:ASN:ND2	2.38	0.56
1:J:173:LYS:HB2	1:J:176:THR:HG22	1.87	0.56
1:O:173:LYS:HB2	1:O:176:THR:HG22	1.87	0.56
1:R:243:ASN:ND2	1:R:246:MET:CG	2.67	0.56
1:U:243:ASN:ND2	1:U:246:MET:CG	2.67	0.56
1:8:230:PHE:CD2	1:8:330:TYR:CE1	2.93	0.56
1:7:270:GLY:CA	1:7:346:PHE:CD1	2.87	0.56
1:4:158:ILE:HG12	1:4:210:TYR:CD1	2.41	0.56
1:e:249:VAL:HG23	1:e:328:GLN:HB3	1.87	0.56
1:l:249:VAL:HG23	1:l:328:GLN:HB3	1.87	0.56
1:y:173:LYS:HB2	1:y:176:THR:HG22	1.87	0.56
1:B:243:ASN:ND2	1:B:246:MET:CG	2.67	0.56
1:I:158:ILE:HG12	1:I:210:TYR:CD1	2.41	0.56
1:L:249:VAL:HG23	1:L:328:GLN:HB3	1.87	0.56
1:M:173:LYS:HB2	1:M:176:THR:HG22	1.87	0.56
1:a:158:ILE:HG12	1:a:210:TYR:CD1	2.40	0.56
1:j:270:GLY:CA	1:j:346:PHE:CD1	2.87	0.56
1:l:173:LYS:HB2	1:l:176:THR:HG22	1.87	0.56
1:m:270:GLY:CA	1:m:346:PHE:CD1	2.87	0.56
1:n:80:MET:SD	1:n:192:THR:OG1	2.61	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:165:GLN:OE1	1:p:322:ASN:ND2	2.38	0.56
1:u:249:VAL:HG23	1:u:328:GLN:HB3	1.87	0.56
1:D:266:ARG:NH2	1:D:360:GLY:O	2.29	0.56
1:E:266:ARG:NH2	1:E:360:GLY:O	2.30	0.56
1:G:173:LYS:HB2	1:G:176:THR:HG22	1.87	0.56
1:H:158:ILE:HG12	1:H:210:TYR:CD1	2.40	0.56
1:O:165:GLN:OE1	1:h:322:ASN:ND2	2.38	0.56
1:O:266:ARG:NH2	1:O:360:GLY:O	2.29	0.56
1:V:158:ILE:HG12	1:V:210:TYR:CD1	2.40	0.56
1:W:249:VAL:HG23	1:W:328:GLN:HB3	1.87	0.56
1:8:322:ASN:ND2	1:2:165:GLN:OE1	2.38	0.56
1:a:230:PHE:CD2	1:a:330:TYR:CE1	2.93	0.56
1:l:270:GLY:CA	1:l:346:PHE:CD1	2.87	0.56
1:n:266:ARG:NH2	1:n:360:GLY:O	2.29	0.56
1:o:173:LYS:HB2	1:o:176:THR:HG22	1.87	0.56
1:o:322:ASN:ND2	1:p:165:GLN:OE1	2.39	0.56
1:q:249:VAL:HG23	1:q:328:GLN:HB3	1.87	0.56
1:r:158:ILE:HG12	1:r:210:TYR:CD1	2.41	0.56
1:t:40:SER:O	1:u:212:LYS:NZ	2.33	0.56
1:t:80:MET:SD	1:t:192:THR:OG1	2.61	0.56
1:u:243:ASN:ND2	1:u:246:MET:CG	2.66	0.56
1:y:249:VAL:HG23	1:y:328:GLN:HB3	1.87	0.56
1:1:230:PHE:CD2	1:1:330:TYR:CE1	2.93	0.56
1:A:165:GLN:OE1	1:I:322:ASN:ND2	2.38	0.55
1:D:158:ILE:HG12	1:D:210:TYR:CD1	2.40	0.55
1:D:249:VAL:HG23	1:D:328:GLN:HB3	1.87	0.55
1:G:249:VAL:HG23	1:G:328:GLN:HB3	1.87	0.55
1:G:269:ALA:HA	1:G:348:PRO:HB3	1.89	0.55
1:H:173:LYS:HB2	1:H:176:THR:HG22	1.87	0.55
1:J:270:GLY:CA	1:J:346:PHE:CD1	2.87	0.55
1:L:158:ILE:HG12	1:L:210:TYR:CD1	2.41	0.55
1:N:230:PHE:CD2	1:N:330:TYR:CE1	2.93	0.55
1:O:322:ASN:ND2	1:g:165:GLN:OE1	2.38	0.55
1:P:249:VAL:HG23	1:P:328:GLN:HB3	1.87	0.55
1:S:269:ALA:HA	1:S:348:PRO:HB3	1.88	0.55
1:T:165:GLN:OE1	1:f:322:ASN:ND2	2.38	0.55
1:T:182:SER:OG	1:T:187:ASP:OD2	2.23	0.55
1:V:230:PHE:CD2	1:V:330:TYR:CE1	2.93	0.55
1:5:269:ALA:HA	1:5:348:PRO:HB3	1.89	0.55
1:3:80:MET:SD	1:3:192:THR:OG1	2.61	0.55
1:3:165:GLN:OE1	1:a:322:ASN:ND2	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:158:ILE:HG12	1:d:210:TYR:CD1	2.40	0.55
1:d:173:LYS:HB2	1:d:176:THR:HG22	1.87	0.55
1:g:269:ALA:HA	1:g:348:PRO:HB3	1.88	0.55
1:k:243:ASN:ND2	1:k:246:MET:CG	2.67	0.55
1:m:158:ILE:HG12	1:m:210:TYR:CD1	2.40	0.55
1:m:249:VAL:HG23	1:m:328:GLN:HB3	1.87	0.55
1:v:269:ALA:HA	1:v:348:PRO:HB3	1.88	0.55
1:x:182:SER:OG	1:x:187:ASP:OD2	2.23	0.55
1:2:158:ILE:HG12	1:2:210:TYR:CD1	2.40	0.55
1:G:122:THR:CG2	1:G:123:LYS:H	1.93	0.55
1:K:165:GLN:OE1	1:2:322:ASN:ND2	2.38	0.55
1:K:269:ALA:HA	1:K:348:PRO:HB3	1.89	0.55
1:L:270:GLY:CA	1:L:346:PHE:CD1	2.87	0.55
1:O:158:ILE:HG12	1:O:210:TYR:CD1	2.40	0.55
1:Q:173:LYS:HB2	1:Q:176:THR:HG22	1.87	0.55
1:T:249:VAL:HG23	1:T:328:GLN:HB3	1.87	0.55
1:T:269:ALA:HA	1:T:348:PRO:HB3	1.89	0.55
1:3:266:ARG:NH2	1:3:360:GLY:O	2.29	0.55
1:o:80:MET:SD	1:o:192:THR:OG1	2.61	0.55
1:q:173:LYS:HB2	1:q:176:THR:HG22	1.87	0.55
1:r:322:ASN:ND2	1:s:165:GLN:OE1	2.38	0.55
1:w:266:ARG:NH2	1:w:360:GLY:O	2.29	0.55
1:w:269:ALA:HA	1:w:348:PRO:HB3	1.89	0.55
1:x:249:VAL:HG23	1:x:328:GLN:HB3	1.87	0.55
1:x:269:ALA:HA	1:x:348:PRO:HB3	1.89	0.55
1:z:249:VAL:HG23	1:z:328:GLN:HB3	1.87	0.55
1:E:269:ALA:HA	1:E:348:PRO:HB3	1.89	0.55
1:F:158:ILE:HG12	1:F:210:TYR:CD1	2.40	0.55
1:R:158:ILE:HG12	1:R:210:TYR:CD1	2.41	0.55
1:Z:173:LYS:HB2	1:Z:176:THR:HG22	1.87	0.55
1:Z:322:ASN:ND2	1:x:165:GLN:OE1	2.39	0.55
1:8:270:GLY:CA	1:8:346:PHE:CD1	2.87	0.55
1:b:243:ASN:ND2	1:b:246:MET:CG	2.67	0.55
1:f:173:LYS:HB2	1:f:176:THR:HG22	1.87	0.55
1:h:269:ALA:HA	1:h:348:PRO:HB3	1.88	0.55
1:p:158:ILE:HG12	1:p:210:TYR:CD1	2.40	0.55
1:q:269:ALA:HA	1:q:348:PRO:HB3	1.89	0.55
1:u:158:ILE:HG12	1:u:210:TYR:CD1	2.40	0.55
1:z:158:ILE:HG12	1:z:210:TYR:CD1	2.40	0.55
1:A:80:MET:SD	1:A:192:THR:OG1	2.61	0.55
1:C:266:ARG:NH2	1:C:360:GLY:O	2.29	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:266:ARG:NH2	1:J:360:GLY:O	2.29	0.55
1:M:158:ILE:HG12	1:M:210:TYR:CD1	2.40	0.55
1:P:269:ALA:HA	1:P:348:PRO:HB3	1.89	0.55
1:R:270:GLY:CA	1:R:346:PHE:CD1	2.87	0.55
1:T:212:LYS:NZ	1:f:40:SER:O	2.33	0.55
1:4:269:ALA:HA	1:4:348:PRO:HB3	1.89	0.55
1:b:269:ALA:HA	1:b:348:PRO:HB3	1.89	0.55
1:e:269:ALA:HA	1:e:348:PRO:HB3	1.89	0.55
1:j:266:ARG:NH2	1:j:360:GLY:O	2.29	0.55
1:n:269:ALA:HA	1:n:348:PRO:HB3	1.89	0.55
1:x:266:ARG:NH2	1:x:360:GLY:O	2.30	0.55
1:y:269:ALA:HA	1:y:348:PRO:HB3	1.89	0.55
1:J:243:ASN:ND2	1:J:246:MET:CG	2.67	0.55
1:R:212:LYS:NZ	1:U:40:SER:O	2.34	0.55
1:V:269:ALA:HA	1:V:348:PRO:HB3	1.89	0.55
1:V:322:ASN:ND2	1:4:165:GLN:OE1	2.38	0.55
1:8:269:ALA:HA	1:8:348:PRO:HB3	1.89	0.55
1:h:270:GLY:CA	1:h:346:PHE:CD1	2.87	0.55
1:i:158:ILE:HG12	1:i:210:TYR:CD1	2.40	0.55
1:z:266:ARG:NH2	1:z:360:GLY:O	2.30	0.55
1:L:269:ALA:HA	1:L:348:PRO:HB3	1.89	0.55
1:W:269:ALA:HA	1:W:348:PRO:HB3	1.89	0.55
1:X:243:ASN:ND2	1:X:246:MET:CG	2.67	0.55
1:X:269:ALA:HA	1:X:348:PRO:HB3	1.89	0.55
1:Z:40:SER:O	1:x:212:LYS:NZ	2.33	0.55
1:Z:270:GLY:CA	1:Z:346:PHE:CD1	2.87	0.55
1:3:269:ALA:HA	1:3:348:PRO:HB3	1.89	0.55
1:a:269:ALA:HA	1:a:348:PRO:HB3	1.89	0.55
1:f:249:VAL:HG23	1:f:328:GLN:HB3	1.87	0.55
1:f:269:ALA:HA	1:f:348:PRO:HB3	1.89	0.55
1:l:243:ASN:ND2	1:l:246:MET:CG	2.67	0.55
1:m:269:ALA:HA	1:m:348:PRO:HB3	1.89	0.55
1:s:80:MET:SD	1:s:192:THR:OG1	2.61	0.55
1:B:269:ALA:HA	1:B:348:PRO:HB3	1.89	0.55
1:L:230:PHE:CE2	1:L:330:TYR:CE1	2.95	0.55
1:T:266:ARG:NH2	1:T:360:GLY:O	2.29	0.55
1:X:270:GLY:CA	1:X:346:PHE:CD1	2.87	0.55
1:Z:249:VAL:HG23	1:Z:328:GLN:HB3	1.87	0.55
1:Z:269:ALA:HA	1:Z:348:PRO:HB3	1.89	0.55
1:4:80:MET:SD	1:4:192:THR:OG1	2.61	0.55
1:b:270:GLY:CA	1:b:346:PHE:CD1	2.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:269:ALA:HA	1:k:348:PRO:HB3	1.89	0.55
1:u:270:GLY:CA	1:u:346:PHE:CD1	2.87	0.55
1:B:122:THR:CG2	1:B:123:LYS:H	1.93	0.55
1:D:270:GLY:CA	1:D:346:PHE:CD1	2.87	0.55
1:F:230:PHE:CE2	1:F:330:TYR:CE1	2.95	0.55
1:P:230:PHE:CE2	1:P:330:TYR:CE1	2.95	0.55
1:Y:230:PHE:CE2	1:Y:330:TYR:CE1	2.95	0.55
1:Z:230:PHE:CE2	1:Z:330:TYR:CE1	2.95	0.55
1:c:230:PHE:CE2	1:c:330:TYR:CE1	2.95	0.55
1:l:266:ARG:NH2	1:l:360:GLY:O	2.29	0.55
1:m:230:PHE:CE2	1:m:330:TYR:CE1	2.95	0.55
1:q:122:THR:CG2	1:q:123:LYS:H	1.93	0.55
1:w:230:PHE:CE2	1:w:330:TYR:CE1	2.95	0.55
1:y:237:ALA:HA	1:y:333:LEU:HA	1.89	0.55
1:y:266:ARG:NH2	1:y:360:GLY:O	2.30	0.55
1:I:230:PHE:CE2	1:I:330:TYR:CE1	2.95	0.55
1:N:269:ALA:HA	1:N:348:PRO:HB3	1.89	0.55
1:S:230:PHE:CE2	1:S:330:TYR:CE1	2.95	0.55
1:T:230:PHE:CE2	1:T:330:TYR:CE1	2.95	0.55
1:U:230:PHE:CE2	1:U:330:TYR:CE1	2.95	0.55
1:V:80:MET:SD	1:V:192:THR:OG1	2.61	0.55
1:V:237:ALA:HA	1:V:333:LEU:HA	1.89	0.55
1:W:133:LEU:N	1:W:213:GLN:HE21	1.97	0.55
1:5:230:PHE:CE2	1:5:330:TYR:CE1	2.95	0.55
1:4:230:PHE:CE2	1:4:330:TYR:CE1	2.95	0.55
1:3:169:LYS:HE2	1:3:345:GLN:HE21	1.72	0.55
1:f:230:PHE:CE2	1:f:330:TYR:CE1	2.95	0.55
1:f:270:GLY:CA	1:f:346:PHE:CD1	2.87	0.55
1:g:80:MET:SD	1:g:192:THR:OG1	2.61	0.55
1:p:230:PHE:CE2	1:p:330:TYR:CE1	2.95	0.55
1:r:230:PHE:CE2	1:r:330:TYR:CE1	2.95	0.55
1:v:230:PHE:CE2	1:v:330:TYR:CE1	2.95	0.55
1:x:230:PHE:CE2	1:x:330:TYR:CE1	2.95	0.55
1:y:230:PHE:CE2	1:y:330:TYR:CE1	2.95	0.55
1:1:269:ALA:HA	1:1:348:PRO:HB3	1.89	0.55
1:F:269:ALA:HA	1:F:348:PRO:HB3	1.88	0.55
1:G:40:SER:O	1:I:212:LYS:NZ	2.34	0.55
1:I:266:ARG:NH2	1:I:360:GLY:O	2.29	0.55
1:K:230:PHE:CE2	1:K:330:TYR:CE1	2.95	0.55
1:M:237:ALA:HA	1:M:333:LEU:HA	1.89	0.55
1:P:237:ALA:HA	1:P:333:LEU:HA	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:80:MET:SD	1:R:192:THR:OG1	2.61	0.55
1:S:169:LYS:HE2	1:S:345:GLN:HE21	1.72	0.55
1:7:312:ASN:ND2	1:6:106:HIS:O	2.39	0.55
1:4:169:LYS:HE2	1:4:345:GLN:HE21	1.72	0.55
1:a:237:ALA:HA	1:a:333:LEU:HA	1.89	0.55
1:b:266:ARG:NH2	1:b:360:GLY:O	2.29	0.55
1:d:243:ASN:ND2	1:d:246:MET:CG	2.67	0.55
1:i:237:ALA:HA	1:i:333:LEU:HA	1.89	0.55
1:k:169:LYS:HE2	1:k:345:GLN:HE21	1.72	0.55
1:t:230:PHE:CE2	1:t:330:TYR:CE1	2.95	0.55
1:u:80:MET:SD	1:u:192:THR:OG1	2.61	0.55
1:v:237:ALA:HA	1:v:333:LEU:HA	1.89	0.55
1:z:270:GLY:CA	1:z:346:PHE:CD1	2.87	0.55
1:B:169:LYS:HE2	1:B:345:GLN:HE21	1.72	0.54
1:D:230:PHE:CE2	1:D:330:TYR:CE1	2.95	0.54
1:F:80:MET:SD	1:F:192:THR:OG1	2.61	0.54
1:O:269:ALA:HA	1:O:348:PRO:HB3	1.89	0.54
1:R:269:ALA:HA	1:R:348:PRO:HB3	1.89	0.54
1:S:237:ALA:HA	1:S:333:LEU:HA	1.89	0.54
1:Y:237:ALA:HA	1:Y:333:LEU:HA	1.89	0.54
1:Z:169:LYS:HE2	1:Z:345:GLN:HE21	1.72	0.54
1:5:237:ALA:HA	1:5:333:LEU:HA	1.89	0.54
1:3:230:PHE:CE2	1:3:330:TYR:CE1	2.95	0.54
1:f:169:LYS:HE2	1:f:345:GLN:HE21	1.72	0.54
1:g:230:PHE:CE2	1:g:330:TYR:CE1	2.95	0.54
1:h:169:LYS:HE2	1:h:345:GLN:HE21	1.72	0.54
1:i:169:LYS:HE2	1:i:345:GLN:HE21	1.72	0.54
1:m:243:ASN:ND2	1:m:246:MET:CG	2.67	0.54
1:p:269:ALA:HA	1:p:348:PRO:HB3	1.89	0.54
1:r:269:ALA:HA	1:r:348:PRO:HB3	1.88	0.54
1:u:269:ALA:HA	1:u:348:PRO:HB3	1.89	0.54
1:v:169:LYS:HE2	1:v:345:GLN:HE21	1.72	0.54
1:z:230:PHE:CE2	1:z:330:TYR:CE1	2.95	0.54
1:B:266:ARG:NH2	1:B:360:GLY:O	2.30	0.54
1:H:243:ASN:ND2	1:H:246:MET:CG	2.67	0.54
1:I:237:ALA:HA	1:I:333:LEU:HA	1.89	0.54
1:I:269:ALA:HA	1:I:348:PRO:HB3	1.89	0.54
1:M:80:MET:SD	1:M:192:THR:OG1	2.61	0.54
1:M:169:LYS:HE2	1:M:345:GLN:HE21	1.72	0.54
1:P:169:LYS:HE2	1:P:345:GLN:HE21	1.72	0.54
1:Q:266:ARG:NH2	1:Q:360:GLY:O	2.29	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:230:PHE:CE2	1:V:330:TYR:CE1	2.95	0.54
1:X:143:GLY:O	1:X:144:THR:OG1	2.25	0.54
1:X:237:ALA:HA	1:X:333:LEU:HA	1.89	0.54
1:3:40:SER:O	1:b:212:LYS:NZ	2.33	0.54
1:c:237:ALA:HA	1:c:333:LEU:HA	1.90	0.54
1:e:133:LEU:N	1:e:213:GLN:HE21	1.97	0.54
1:k:266:ARG:NH2	1:k:360:GLY:O	2.29	0.54
1:w:237:ALA:HA	1:w:333:LEU:HA	1.89	0.54
1:y:169:LYS:HE2	1:y:345:GLN:HE21	1.72	0.54
1:2:269:ALA:HA	1:2:348:PRO:HB3	1.89	0.54
1:E:230:PHE:CE2	1:E:330:TYR:CE1	2.95	0.54
1:G:270:GLY:CA	1:G:346:PHE:CD1	2.87	0.54
1:H:237:ALA:HA	1:H:333:LEU:HA	1.89	0.54
1:J:237:ALA:HA	1:J:333:LEU:HA	1.89	0.54
1:O:143:GLY:O	1:O:144:THR:OG1	2.25	0.54
1:P:266:ARG:NH2	1:P:360:GLY:O	2.30	0.54
1:W:270:GLY:CA	1:W:346:PHE:CD1	2.87	0.54
1:8:237:ALA:HA	1:8:333:LEU:HA	1.89	0.54
1:4:194:SER:N	1:4:197:ASN:O	2.40	0.54
1:a:230:PHE:CE2	1:a:330:TYR:CE1	2.95	0.54
1:b:237:ALA:HA	1:b:333:LEU:HA	1.89	0.54
1:k:122:THR:CG2	1:k:123:LYS:H	1.93	0.54
1:o:237:ALA:HA	1:o:333:LEU:HA	1.89	0.54
1:q:169:LYS:HE2	1:q:345:GLN:HE21	1.72	0.54
1:r:237:ALA:HA	1:r:333:LEU:HA	1.89	0.54
1:r:266:ARG:NH2	1:r:360:GLY:O	2.29	0.54
1:x:237:ALA:HA	1:x:333:LEU:HA	1.89	0.54
1:E:40:SER:O	1:Q:212:LYS:NZ	2.34	0.54
1:H:230:PHE:CE2	1:H:330:TYR:CE1	2.95	0.54
1:N:230:PHE:CE2	1:N:330:TYR:CE1	2.95	0.54
1:O:270:GLY:CA	1:O:346:PHE:CD1	2.87	0.54
1:Q:237:ALA:HA	1:Q:333:LEU:HA	1.89	0.54
1:R:40:SER:O	1:S:212:LYS:NZ	2.33	0.54
1:T:237:ALA:HA	1:T:333:LEU:HA	1.89	0.54
1:U:269:ALA:HA	1:U:348:PRO:HB3	1.89	0.54
1:W:237:ALA:HA	1:W:333:LEU:HA	1.89	0.54
1:X:230:PHE:CE2	1:X:330:TYR:CE1	2.95	0.54
1:X:266:ARG:NH2	1:X:360:GLY:O	2.29	0.54
1:8:169:LYS:HE2	1:8:345:GLN:HE21	1.72	0.54
1:a:80:MET:SD	1:a:192:THR:OG1	2.61	0.54
1:d:237:ALA:HA	1:d:333:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:237:ALA:HA	1:e:333:LEU:HA	1.89	0.54
1:e:270:GLY:CA	1:e:346:PHE:CD1	2.87	0.54
1:f:266:ARG:NH2	1:f:360:GLY:O	2.29	0.54
1:l:237:ALA:HA	1:l:333:LEU:HA	1.89	0.54
1:n:230:PHE:CE2	1:n:330:TYR:CE1	2.95	0.54
1:p:80:MET:SD	1:p:192:THR:OG1	2.61	0.54
1:r:169:LYS:HE2	1:r:345:GLN:HE21	1.72	0.54
1:1:230:PHE:CE2	1:1:330:TYR:CE1	2.95	0.54
1:1:237:ALA:HA	1:1:333:LEU:HA	1.90	0.54
1:G:169:LYS:HE2	1:G:345:GLN:HE21	1.72	0.54
1:J:230:PHE:CE2	1:J:330:TYR:CE1	2.95	0.54
1:N:133:LEU:N	1:N:213:GLN:HE21	1.97	0.54
1:N:237:ALA:HA	1:N:333:LEU:HA	1.90	0.54
1:V:266:ARG:NH2	1:V:360:GLY:O	2.29	0.54
1:W:230:PHE:CE2	1:W:330:TYR:CE1	2.95	0.54
1:X:212:LYS:NZ	1:4:40:SER:O	2.33	0.54
1:3:194:SER:N	1:3:197:ASN:O	2.40	0.54
1:b:230:PHE:CE2	1:b:330:TYR:CE1	2.95	0.54
1:d:230:PHE:CE2	1:d:330:TYR:CE1	2.95	0.54
1:d:269:ALA:HA	1:d:348:PRO:HB3	1.89	0.54
1:e:230:PHE:CE2	1:e:330:TYR:CE1	2.95	0.54
1:f:237:ALA:HA	1:f:333:LEU:HA	1.89	0.54
1:g:266:ARG:NH2	1:g:360:GLY:O	2.29	0.54
1:h:237:ALA:HA	1:h:333:LEU:HA	1.90	0.54
1:k:230:PHE:CE2	1:k:330:TYR:CE1	2.95	0.54
1:n:40:SER:O	1:o:212:LYS:NZ	2.34	0.54
1:q:40:SER:O	1:r:212:LYS:NZ	2.35	0.54
1:q:270:GLY:CA	1:q:346:PHE:CD1	2.87	0.54
1:s:237:ALA:HA	1:s:333:LEU:HA	1.90	0.54
1:2:237:ALA:HA	1:2:333:LEU:HA	1.89	0.54
1:A:230:PHE:CE2	1:A:330:TYR:CE1	2.95	0.54
1:A:237:ALA:HA	1:A:333:LEU:HA	1.89	0.54
1:B:230:PHE:CE2	1:B:330:TYR:CE1	2.95	0.54
1:C:269:ALA:HA	1:C:348:PRO:HB3	1.88	0.54
1:H:269:ALA:HA	1:H:348:PRO:HB3	1.89	0.54
1:I:169:LYS:HE2	1:I:345:GLN:HE21	1.72	0.54
1:L:237:ALA:HA	1:L:333:LEU:HA	1.89	0.54
1:N:169:LYS:HE2	1:N:345:GLN:HE21	1.72	0.54
1:O:237:ALA:HA	1:O:333:LEU:HA	1.89	0.54
1:Q:269:ALA:HA	1:Q:348:PRO:HB3	1.88	0.54
1:W:80:MET:SD	1:W:192:THR:OG1	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:270:GLY:CA	1:Y:346:PHE:CD1	2.87	0.54
1:Z:237:ALA:HA	1:Z:333:LEU:HA	1.89	0.54
1:4:270:GLY:CA	1:4:346:PHE:CD1	2.87	0.54
1:a:266:ARG:NH2	1:a:360:GLY:O	2.29	0.54
1:c:270:GLY:CA	1:c:346:PHE:CD1	2.87	0.54
1:j:230:PHE:CE2	1:j:330:TYR:CE1	2.95	0.54
1:l:169:LYS:HE2	1:l:345:GLN:HE21	1.72	0.54
1:l:230:PHE:CE2	1:l:330:TYR:CE1	2.95	0.54
1:q:230:PHE:CE2	1:q:330:TYR:CE1	2.95	0.54
1:s:230:PHE:CE2	1:s:330:TYR:CE1	2.95	0.54
1:s:243:ASN:ND2	1:s:246:MET:CG	2.67	0.54
1:t:269:ALA:HA	1:t:348:PRO:HB3	1.89	0.54
1:u:40:SER:O	1:v:212:LYS:NZ	2.33	0.54
1:1:169:LYS:HE2	1:1:345:GLN:HE21	1.72	0.54
1:A:243:ASN:ND2	1:A:246:MET:CG	2.67	0.54
1:C:230:PHE:CE2	1:C:330:TYR:CE1	2.95	0.54
1:D:269:ALA:HA	1:D:348:PRO:HB3	1.89	0.54
1:G:230:PHE:CE2	1:G:330:TYR:CE1	2.95	0.54
1:M:230:PHE:CE2	1:M:330:TYR:CE1	2.95	0.54
1:3:270:GLY:CA	1:3:346:PHE:CD1	2.87	0.54
1:e:80:MET:SD	1:e:192:THR:OG1	2.61	0.54
1:j:269:ALA:HA	1:j:348:PRO:HB3	1.89	0.54
1:m:237:ALA:HA	1:m:333:LEU:HA	1.89	0.54
1:n:169:LYS:HE2	1:n:345:GLN:HE21	1.72	0.54
1:o:82:VAL:HG21	1:o:170:VAL:HG11	1.90	0.54
1:o:266:ARG:NH2	1:o:360:GLY:O	2.29	0.54
1:z:269:ALA:HA	1:z:348:PRO:HB3	1.89	0.54
1:2:270:GLY:CA	1:2:346:PHE:CD1	2.87	0.54
1:C:237:ALA:HA	1:C:333:LEU:HA	1.89	0.54
1:E:169:LYS:HE2	1:E:345:GLN:HE21	1.72	0.54
1:F:169:LYS:HE2	1:F:345:GLN:HE21	1.72	0.54
1:H:82:VAL:HG21	1:H:170:VAL:HG11	1.90	0.54
1:J:169:LYS:HE2	1:J:345:GLN:HE21	1.72	0.54
1:J:269:ALA:HA	1:J:348:PRO:HB3	1.88	0.54
1:Q:82:VAL:HG21	1:Q:170:VAL:HG11	1.90	0.54
1:Q:230:PHE:CE2	1:Q:330:TYR:CE1	2.95	0.54
1:U:237:ALA:HA	1:U:333:LEU:HA	1.89	0.54
1:8:96:THR:HA	1:8:185:GLU:OE1	2.08	0.54
1:7:230:PHE:CE2	1:7:330:TYR:CE1	2.95	0.54
1:7:269:ALA:HA	1:7:348:PRO:HB3	1.89	0.54
1:6:269:ALA:HA	1:6:348:PRO:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:270:GLY:CA	1:5:346:PHE:CD1	2.87	0.54
1:c:82:VAL:HG21	1:c:170:VAL:HG11	1.90	0.54
1:d:82:VAL:HG21	1:d:170:VAL:HG11	1.90	0.54
1:g:96:THR:HA	1:g:185:GLU:OE1	2.08	0.54
1:i:269:ALA:HA	1:i:348:PRO:HB3	1.89	0.54
1:j:82:VAL:HG21	1:j:170:VAL:HG11	1.90	0.54
1:j:237:ALA:HA	1:j:333:LEU:HA	1.89	0.54
1:l:269:ALA:HA	1:l:348:PRO:HB3	1.88	0.54
1:o:230:PHE:CE2	1:o:330:TYR:CE1	2.95	0.54
1:t:133:LEU:N	1:t:213:GLN:HE21	1.97	0.54
1:t:194:SER:N	1:t:197:ASN:O	2.40	0.54
1:t:237:ALA:HA	1:t:333:LEU:HA	1.89	0.54
1:1:133:LEU:N	1:1:213:GLN:HE21	1.97	0.54
1:K:96:THR:HA	1:K:185:GLU:OE1	2.08	0.54
1:K:266:ARG:NH2	1:K:360:GLY:O	2.29	0.54
1:O:82:VAL:HG21	1:O:170:VAL:HG11	1.90	0.54
1:O:230:PHE:CE2	1:O:330:TYR:CE1	2.95	0.54
1:P:96:THR:HA	1:P:185:GLU:OE1	2.08	0.54
1:Q:169:LYS:HE2	1:Q:345:GLN:HE21	1.72	0.54
1:R:237:ALA:HA	1:R:333:LEU:HA	1.89	0.54
1:U:82:VAL:HG21	1:U:170:VAL:HG11	1.90	0.54
1:U:133:LEU:N	1:U:213:GLN:HE21	1.97	0.54
1:U:194:SER:N	1:U:197:ASN:O	2.40	0.54
1:V:96:THR:HA	1:V:185:GLU:OE1	2.08	0.54
1:Y:82:VAL:HG21	1:Y:170:VAL:HG11	1.90	0.54
1:Y:96:THR:HA	1:Y:185:GLU:OE1	2.08	0.54
1:Z:266:ARG:NH2	1:Z:360:GLY:O	2.29	0.54
1:7:82:VAL:HG21	1:7:170:VAL:HG11	1.90	0.54
1:6:82:VAL:HG21	1:6:170:VAL:HG11	1.90	0.54
1:6:230:PHE:CE2	1:6:330:TYR:CE1	2.95	0.54
1:g:169:LYS:HE2	1:g:345:GLN:HE21	1.72	0.54
1:h:96:THR:HA	1:h:185:GLU:OE1	2.08	0.54
1:i:230:PHE:CE2	1:i:330:TYR:CE1	2.95	0.54
1:o:269:ALA:HA	1:o:348:PRO:HB3	1.89	0.54
1:p:82:VAL:HG21	1:p:170:VAL:HG11	1.90	0.54
1:p:169:LYS:HE2	1:p:345:GLN:HE21	1.72	0.54
1:t:82:VAL:HG21	1:t:170:VAL:HG11	1.90	0.54
1:u:237:ALA:HA	1:u:333:LEU:HA	1.89	0.54
1:y:96:THR:HA	1:y:185:GLU:OE1	2.08	0.54
1:2:230:PHE:CE2	1:2:330:TYR:CE1	2.95	0.54
1:C:82:VAL:HG21	1:C:170:VAL:HG11	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:80:MET:SD	1:D:192:THR:OG1	2.61	0.54
1:D:237:ALA:HA	1:D:333:LEU:HA	1.89	0.54
1:F:82:VAL:HG21	1:F:170:VAL:HG11	1.90	0.54
1:M:269:ALA:HA	1:M:348:PRO:HB3	1.89	0.54
1:P:82:VAL:HG21	1:P:170:VAL:HG11	1.90	0.54
1:R:169:LYS:HE2	1:R:345:GLN:HE21	1.72	0.54
1:S:96:THR:HA	1:S:185:GLU:OE1	2.08	0.54
1:S:194:SER:N	1:S:197:ASN:O	2.40	0.54
1:V:169:LYS:HE2	1:V:345:GLN:HE21	1.72	0.54
1:W:143:GLY:O	1:W:144:THR:OG1	2.25	0.54
1:X:82:VAL:HG21	1:X:170:VAL:HG11	1.90	0.54
1:8:230:PHE:CE2	1:8:330:TYR:CE1	2.95	0.54
1:5:96:THR:HA	1:5:185:GLU:OE1	2.08	0.54
1:a:96:THR:HA	1:a:185:GLU:OE1	2.08	0.54
1:b:82:VAL:HG21	1:b:170:VAL:HG11	1.90	0.54
1:b:133:LEU:N	1:b:213:GLN:HE21	1.97	0.54
1:c:96:THR:HA	1:c:185:GLU:OE1	2.08	0.54
1:h:230:PHE:CE2	1:h:330:TYR:CE1	2.95	0.54
1:n:96:THR:HA	1:n:185:GLU:OE1	2.08	0.54
1:o:169:LYS:HE2	1:o:345:GLN:HE21	1.72	0.54
1:r:122:THR:CG2	1:r:123:LYS:N	2.48	0.54
1:v:80:MET:SD	1:v:192:THR:OG1	2.61	0.54
1:v:96:THR:HA	1:v:185:GLU:OE1	2.08	0.54
1:w:82:VAL:HG21	1:w:170:VAL:HG11	1.90	0.54
1:w:169:LYS:HE2	1:w:345:GLN:HE21	1.72	0.54
1:x:243:ASN:ND2	1:x:246:MET:CG	2.67	0.54
1:1:194:SER:N	1:1:197:ASN:O	2.40	0.54
1:2:82:VAL:HG21	1:2:170:VAL:HG11	1.90	0.54
1:A:269:ALA:HA	1:A:348:PRO:HB3	1.89	0.53
1:C:122:THR:CG2	1:C:123:LYS:H	1.93	0.53
1:D:40:SER:O	1:N:212:LYS:NZ	2.33	0.53
1:E:96:THR:HA	1:E:185:GLU:OE1	2.08	0.53
1:E:194:SER:N	1:E:197:ASN:O	2.40	0.53
1:K:169:LYS:HE2	1:K:345:GLN:HE21	1.72	0.53
1:R:230:PHE:CE2	1:R:330:TYR:CE1	2.95	0.53
1:S:239:VAL:HG11	1:S:268:MET:HE1	1.90	0.53
1:T:243:ASN:ND2	1:T:246:MET:CG	2.67	0.53
1:U:96:THR:HA	1:U:185:GLU:OE1	2.08	0.53
1:5:82:VAL:HG21	1:5:170:VAL:HG11	1.90	0.53
1:5:169:LYS:HE2	1:5:345:GLN:HE21	1.72	0.53
1:a:133:LEU:N	1:a:213:GLN:HE21	1.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:169:LYS:HE2	1:a:345:GLN:HE21	1.72	0.53
1:f:96:THR:HA	1:f:185:GLU:OE1	2.08	0.53
1:h:82:VAL:HG21	1:h:170:VAL:HG11	1.90	0.53
1:p:237:ALA:HA	1:p:333:LEU:HA	1.89	0.53
1:q:237:ALA:HA	1:q:333:LEU:HA	1.89	0.53
1:r:96:THR:HA	1:r:185:GLU:OE1	2.08	0.53
1:t:96:THR:HA	1:t:185:GLU:OE1	2.08	0.53
1:t:122:THR:CG2	1:t:123:LYS:N	2.48	0.53
1:u:169:LYS:HE2	1:u:345:GLN:HE21	1.72	0.53
1:w:96:THR:HA	1:w:185:GLU:OE1	2.08	0.53
1:y:82:VAL:HG21	1:y:170:VAL:HG11	1.90	0.53
1:z:237:ALA:HA	1:z:333:LEU:HA	1.89	0.53
1:A:96:THR:HA	1:A:185:GLU:OE1	2.08	0.53
1:D:169:LYS:HE2	1:D:345:GLN:HE21	1.72	0.53
1:F:237:ALA:HA	1:F:333:LEU:HA	1.90	0.53
1:G:237:ALA:HA	1:G:333:LEU:HA	1.89	0.53
1:I:96:THR:HA	1:I:185:GLU:OE1	2.08	0.53
1:J:96:THR:HA	1:J:185:GLU:OE1	2.08	0.53
1:Q:85:TRP:CZ2	1:Q:271:HIS:CE1	2.97	0.53
1:S:80:MET:SD	1:S:192:THR:OG1	2.61	0.53
1:T:82:VAL:HG21	1:T:170:VAL:HG11	1.90	0.53
1:W:169:LYS:HE2	1:W:345:GLN:HE21	1.72	0.53
1:8:82:VAL:HG21	1:8:170:VAL:HG11	1.90	0.53
1:7:266:ARG:NH2	1:7:360:GLY:O	2.29	0.53
1:6:85:TRP:CZ2	1:6:271:HIS:CE1	2.97	0.53
1:g:237:ALA:HA	1:g:333:LEU:HA	1.89	0.53
1:j:122:THR:CG2	1:j:123:LYS:H	1.93	0.53
1:l:96:THR:HA	1:l:185:GLU:OE1	2.08	0.53
1:o:85:TRP:CZ2	1:o:271:HIS:CE1	2.97	0.53
1:u:230:PHE:CE2	1:u:330:TYR:CE1	2.95	0.53
1:v:194:SER:N	1:v:197:ASN:O	2.40	0.53
1:v:239:VAL:HG11	1:v:268:MET:HE1	1.90	0.53
1:w:270:GLY:CA	1:w:346:PHE:CD1	2.87	0.53
1:A:85:TRP:CZ2	1:A:271:HIS:CE1	2.97	0.53
1:B:239:VAL:HG11	1:B:268:MET:HE1	1.90	0.53
1:D:82:VAL:HG21	1:D:170:VAL:HG11	1.90	0.53
1:H:239:VAL:HG11	1:H:268:MET:HE1	1.90	0.53
1:I:270:GLY:CA	1:I:346:PHE:CD1	2.86	0.53
1:O:80:MET:SD	1:O:192:THR:OG1	2.61	0.53
1:O:85:TRP:CZ2	1:O:271:HIS:CE1	2.97	0.53
1:P:85:TRP:CZ2	1:P:271:HIS:CE1	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:133:LEU:N	1:R:213:GLN:HE21	1.97	0.53
1:U:85:TRP:CZ2	1:U:271:HIS:CE1	2.97	0.53
1:U:169:LYS:HE2	1:U:345:GLN:HE21	1.72	0.53
1:V:85:TRP:CZ2	1:V:271:HIS:CE1	2.97	0.53
1:7:85:TRP:CZ2	1:7:271:HIS:CE1	2.97	0.53
1:4:133:LEU:N	1:4:213:GLN:HE21	1.97	0.53
1:c:269:ALA:HA	1:c:348:PRO:HB3	1.89	0.53
1:e:169:LYS:HE2	1:e:345:GLN:HE21	1.72	0.53
1:k:239:VAL:HG11	1:k:268:MET:HE1	1.90	0.53
1:p:85:TRP:CZ2	1:p:271:HIS:CE1	2.97	0.53
1:s:85:TRP:CZ2	1:s:271:HIS:CE1	2.97	0.53
1:s:96:THR:HA	1:s:185:GLU:OE1	2.08	0.53
1:t:85:TRP:CZ2	1:t:271:HIS:CE1	2.97	0.53
1:u:133:LEU:N	1:u:213:GLN:HE21	1.97	0.53
1:x:82:VAL:HG21	1:x:170:VAL:HG11	1.90	0.53
1:z:82:VAL:HG21	1:z:170:VAL:HG11	1.90	0.53
1:z:169:LYS:HE2	1:z:345:GLN:HE21	1.72	0.53
1:2:80:MET:SD	1:2:192:THR:OG1	2.61	0.53
1:D:96:THR:HA	1:D:185:GLU:OE1	2.08	0.53
1:F:85:TRP:CZ2	1:F:271:HIS:CE1	2.97	0.53
1:J:85:TRP:CZ2	1:J:271:HIS:CE1	2.97	0.53
1:K:85:TRP:CZ2	1:K:271:HIS:CE1	2.97	0.53
1:K:237:ALA:HA	1:K:333:LEU:HA	1.89	0.53
1:S:85:TRP:CZ2	1:S:271:HIS:CE1	2.97	0.53
1:T:122:THR:CG2	1:T:123:LYS:H	1.93	0.53
1:V:133:LEU:N	1:V:213:GLN:HE21	1.97	0.53
1:X:133:LEU:N	1:X:213:GLN:HE21	1.97	0.53
1:Z:96:THR:HA	1:Z:185:GLU:OE1	2.08	0.53
1:5:85:TRP:CZ2	1:5:271:HIS:CE1	2.97	0.53
1:a:85:TRP:CZ2	1:a:271:HIS:CE1	2.97	0.53
1:d:239:VAL:HG11	1:d:268:MET:HE1	1.90	0.53
1:l:85:TRP:CZ2	1:l:271:HIS:CE1	2.97	0.53
1:m:169:LYS:HE2	1:m:345:GLN:HE21	1.72	0.53
1:n:194:SER:N	1:n:197:ASN:O	2.40	0.53
1:q:85:TRP:CZ2	1:q:271:HIS:CE1	2.97	0.53
1:q:239:VAL:HG11	1:q:268:MET:HE1	1.90	0.53
1:r:82:VAL:HG21	1:r:170:VAL:HG11	1.90	0.53
1:s:269:ALA:HA	1:s:348:PRO:HB3	1.89	0.53
1:u:143:GLY:O	1:u:144:THR:OG1	2.25	0.53
1:v:85:TRP:CZ2	1:v:271:HIS:CE1	2.97	0.53
1:y:85:TRP:CZ2	1:y:271:HIS:CE1	2.97	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:96:THR:HA	1:z:185:GLU:OE1	2.08	0.53
1:1:85:TRP:CZ2	1:1:271:HIS:CE1	2.97	0.53
1:2:85:TRP:CZ2	1:2:271:HIS:CE1	2.97	0.53
1:A:270:GLY:CA	1:A:346:PHE:CD1	2.87	0.53
1:G:85:TRP:CZ2	1:G:271:HIS:CE1	2.97	0.53
1:H:169:LYS:HE2	1:H:345:GLN:HE21	1.72	0.53
1:I:82:VAL:HG21	1:I:170:VAL:HG11	1.90	0.53
1:K:239:VAL:HG11	1:K:268:MET:HE1	1.91	0.53
1:L:80:MET:SD	1:L:192:THR:OG1	2.61	0.53
1:L:169:LYS:HE2	1:L:345:GLN:HE21	1.72	0.53
1:N:85:TRP:CZ2	1:N:271:HIS:CE1	2.97	0.53
1:N:96:THR:HA	1:N:185:GLU:OE1	2.08	0.53
1:P:120:ARG:HD2	1:P:226:LEU:HB2	1.91	0.53
1:V:270:GLY:CA	1:V:346:PHE:CD1	2.87	0.53
1:X:96:THR:HA	1:X:185:GLU:OE1	2.08	0.53
1:Y:169:LYS:HE2	1:Y:345:GLN:HE21	1.72	0.53
1:Y:269:ALA:HA	1:Y:348:PRO:HB3	1.89	0.53
1:5:40:SER:O	1:f:212:LYS:NZ	2.35	0.53
1:b:96:THR:HA	1:b:185:GLU:OE1	2.08	0.53
1:c:169:LYS:HE2	1:c:345:GLN:HE21	1.72	0.53
1:g:85:TRP:CZ2	1:g:271:HIS:CE1	2.97	0.53
1:g:239:VAL:HG11	1:g:268:MET:HE1	1.91	0.53
1:m:80:MET:SD	1:m:192:THR:OG1	2.61	0.53
1:t:169:LYS:HE2	1:t:345:GLN:HE21	1.72	0.53
1:y:120:ARG:HD2	1:y:226:LEU:HB2	1.91	0.53
1:z:40:SER:O	1:1:212:LYS:NZ	2.33	0.53
1:1:96:THR:HA	1:1:185:GLU:OE1	2.08	0.53
1:B:85:TRP:CZ2	1:B:271:HIS:CE1	2.97	0.53
1:C:85:TRP:CZ2	1:C:271:HIS:CE1	2.97	0.53
1:C:131:LEU:HD22	1:C:211:TRP:CE3	2.44	0.53
1:E:237:ALA:HA	1:E:333:LEU:HA	1.89	0.53
1:G:239:VAL:HG11	1:G:268:MET:HE1	1.90	0.53
1:I:122:THR:CG2	1:I:123:LYS:N	2.48	0.53
1:L:131:LEU:HD22	1:L:211:TRP:CE3	2.44	0.53
1:M:96:THR:HA	1:M:185:GLU:OE1	2.08	0.53
1:Q:96:THR:HA	1:Q:185:GLU:OE1	2.08	0.53
1:T:120:ARG:HD2	1:T:226:LEU:HB2	1.91	0.53
1:8:239:VAL:HG11	1:8:268:MET:HE1	1.90	0.53
1:5:131:LEU:HD22	1:5:211:TRP:CE3	2.44	0.53
1:a:131:LEU:HD22	1:a:211:TRP:CE3	2.44	0.53
1:d:169:LYS:HE2	1:d:345:GLN:HE21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:239:VAL:HG11	1:i:268:MET:HE1	1.90	0.53
1:j:85:TRP:CZ2	1:j:271:HIS:CE1	2.97	0.53
1:m:131:LEU:HD22	1:m:211:TRP:CE3	2.44	0.53
1:n:237:ALA:HA	1:n:333:LEU:HA	1.90	0.53
1:w:85:TRP:CZ2	1:w:271:HIS:CE1	2.97	0.53
1:x:131:LEU:HD22	1:x:211:TRP:CE3	2.44	0.53
1:2:169:LYS:HE2	1:2:345:GLN:HE21	1.72	0.53
1:A:169:LYS:HE2	1:A:345:GLN:HE21	1.72	0.53
1:A:241:GLN:CB	1:A:243:ASN:HD21	2.22	0.53
1:B:182:SER:OG	1:B:187:ASP:OD2	2.23	0.53
1:B:237:ALA:HA	1:B:333:LEU:HA	1.89	0.53
1:C:169:LYS:HE2	1:C:345:GLN:HE21	1.72	0.53
1:D:241:GLN:CB	1:D:243:ASN:HD21	2.22	0.53
1:H:85:TRP:CZ2	1:H:271:HIS:CE1	2.97	0.53
1:I:131:LEU:HD22	1:I:211:TRP:CE3	2.44	0.53
1:L:120:ARG:HD2	1:L:226:LEU:HB2	1.91	0.53
1:L:241:GLN:CB	1:L:243:ASN:HD21	2.22	0.53
1:M:239:VAL:HG11	1:M:268:MET:HE1	1.90	0.53
1:O:169:LYS:HE2	1:O:345:GLN:HE21	1.72	0.53
1:P:131:LEU:HD22	1:P:211:TRP:CE3	2.44	0.53
1:P:156:TYR:HB3	1:P:212:LYS:HG2	1.91	0.53
1:T:131:LEU:HD22	1:T:211:TRP:CE3	2.44	0.53
1:T:241:GLN:CB	1:T:243:ASN:HD21	2.22	0.53
1:U:122:THR:CG2	1:U:123:LYS:N	2.48	0.53
1:U:241:GLN:CB	1:U:243:ASN:HD21	2.22	0.53
1:V:131:LEU:HD22	1:V:211:TRP:CE3	2.44	0.53
1:Z:85:TRP:CZ2	1:Z:271:HIS:CE1	2.97	0.53
1:Z:241:GLN:CB	1:Z:243:ASN:HD21	2.22	0.53
1:8:85:TRP:CZ2	1:8:271:HIS:CE1	2.97	0.53
1:6:239:VAL:HG11	1:6:268:MET:HE1	1.90	0.53
1:a:182:SER:OG	1:a:187:ASP:OD2	2.23	0.53
1:a:270:GLY:CA	1:a:346:PHE:CD1	2.87	0.53
1:b:85:TRP:CZ2	1:b:271:HIS:CE1	2.97	0.53
1:d:85:TRP:CZ2	1:d:271:HIS:CE1	2.97	0.53
1:f:85:TRP:CZ2	1:f:271:HIS:CE1	2.97	0.53
1:f:156:TYR:HB3	1:f:212:LYS:HG2	1.91	0.53
1:f:241:GLN:CB	1:f:243:ASN:HD21	2.22	0.53
1:h:85:TRP:CZ2	1:h:271:HIS:CE1	2.97	0.53
1:h:239:VAL:HG11	1:h:268:MET:HE1	1.90	0.53
1:j:131:LEU:HD22	1:j:211:TRP:CE3	2.44	0.53
1:j:169:LYS:HE2	1:j:345:GLN:HE21	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:85:TRP:CZ2	1:k:271:HIS:CE1	2.97	0.53
1:k:182:SER:OG	1:k:187:ASP:OD2	2.23	0.53
1:k:237:ALA:HA	1:k:333:LEU:HA	1.89	0.53
1:m:120:ARG:HD2	1:m:226:LEU:HB2	1.91	0.53
1:m:241:GLN:CB	1:m:243:ASN:HD21	2.22	0.53
1:n:156:TYR:HB3	1:n:212:LYS:HG2	1.91	0.53
1:r:131:LEU:HD22	1:r:211:TRP:CE3	2.44	0.53
1:r:241:GLN:CB	1:r:243:ASN:HD21	2.22	0.53
1:r:270:GLY:CA	1:r:346:PHE:CD1	2.87	0.53
1:s:131:LEU:HD22	1:s:211:TRP:CE3	2.44	0.53
1:s:241:GLN:CB	1:s:243:ASN:HD21	2.22	0.53
1:s:270:GLY:CA	1:s:346:PHE:CD1	2.87	0.53
1:t:131:LEU:HD22	1:t:211:TRP:CE3	2.44	0.53
1:w:131:LEU:HD22	1:w:211:TRP:CE3	2.44	0.53
1:x:85:TRP:CZ2	1:x:271:HIS:CE1	2.97	0.53
1:x:120:ARG:HD2	1:x:226:LEU:HB2	1.91	0.53
1:y:131:LEU:HD22	1:y:211:TRP:CE3	2.44	0.53
1:z:80:MET:SD	1:z:192:THR:OG1	2.61	0.53
1:z:241:GLN:CB	1:z:243:ASN:HD21	2.22	0.53
1:A:131:LEU:HD22	1:A:211:TRP:CE3	2.44	0.53
1:E:156:TYR:HB3	1:E:212:LYS:HG2	1.91	0.53
1:F:131:LEU:HD22	1:F:211:TRP:CE3	2.44	0.53
1:I:241:GLN:CB	1:I:243:ASN:HD21	2.22	0.53
1:K:241:GLN:CB	1:K:243:ASN:HD21	2.22	0.53
1:M:120:ARG:HD2	1:M:226:LEU:HB2	1.91	0.53
1:M:243:ASN:O	1:7:258:ILE:HG22	2.09	0.53
1:N:250:GLY:CA	1:N:331:GLY:HA2	2.39	0.53
1:O:250:GLY:CA	1:O:331:GLY:HA2	2.39	0.53
1:R:85:TRP:CZ2	1:R:271:HIS:CE1	2.97	0.53
1:T:85:TRP:CZ2	1:T:271:HIS:CE1	2.97	0.53
1:X:85:TRP:CZ2	1:X:271:HIS:CE1	2.97	0.53
1:X:131:LEU:HD22	1:X:211:TRP:CE3	2.44	0.53
1:Y:85:TRP:CZ2	1:Y:271:HIS:CE1	2.97	0.53
1:6:266:ARG:NH2	1:6:360:GLY:O	2.29	0.53
1:5:250:GLY:CA	1:5:331:GLY:HA2	2.39	0.53
1:4:156:TYR:HB3	1:4:212:LYS:HG2	1.91	0.53
1:4:237:ALA:HA	1:4:333:LEU:HA	1.89	0.53
1:3:133:LEU:N	1:3:213:GLN:HE21	1.97	0.53
1:b:131:LEU:HD22	1:b:211:TRP:CE3	2.44	0.53
1:b:169:LYS:HE2	1:b:345:GLN:HE21	1.72	0.53
1:c:131:LEU:HD22	1:c:211:TRP:CE3	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:96:THR:HA	1:i:185:GLU:OE1	2.08	0.53
1:o:96:THR:HA	1:o:185:GLU:OE1	2.08	0.53
1:s:169:LYS:HE2	1:s:345:GLN:HE21	1.72	0.53
1:t:241:GLN:CB	1:t:243:ASN:HD21	2.22	0.53
1:u:241:GLN:CB	1:u:243:ASN:HD21	2.22	0.53
1:w:143:GLY:O	1:w:144:THR:OG1	2.25	0.53
1:x:122:THR:CG2	1:x:123:LYS:H	1.93	0.53
1:y:156:TYR:HB3	1:y:212:LYS:HG2	1.91	0.53
1:1:250:GLY:CA	1:1:331:GLY:HA2	2.39	0.53
1:A:82:VAL:HG21	1:A:170:VAL:HG11	1.90	0.53
1:P:250:GLY:CA	1:P:331:GLY:HA2	2.39	0.53
1:Q:250:GLY:CA	1:Q:331:GLY:HA2	2.39	0.53
1:R:241:GLN:CB	1:R:243:ASN:HD21	2.22	0.53
1:V:120:ARG:HD2	1:V:226:LEU:HB2	1.91	0.53
1:V:241:GLN:CB	1:V:243:ASN:HD21	2.22	0.53
1:X:169:LYS:HE2	1:X:345:GLN:HE21	1.72	0.53
1:Y:131:LEU:HD22	1:Y:211:TRP:CE3	2.44	0.53
1:8:156:TYR:HB3	1:8:212:LYS:HG2	1.91	0.53
1:7:239:VAL:HG11	1:7:268:MET:HE1	1.90	0.53
1:6:237:ALA:HA	1:6:333:LEU:HA	1.89	0.53
1:5:241:GLN:CB	1:5:243:ASN:HD21	2.22	0.53
1:4:241:GLN:CB	1:4:243:ASN:HD21	2.22	0.53
1:3:156:TYR:HB3	1:3:212:LYS:HG2	1.91	0.53
1:3:237:ALA:HA	1:3:333:LEU:HA	1.89	0.53
1:3:241:GLN:CB	1:3:243:ASN:HD21	2.22	0.53
1:a:241:GLN:CB	1:a:243:ASN:HD21	2.22	0.53
1:c:85:TRP:CZ2	1:c:271:HIS:CE1	2.97	0.53
1:d:96:THR:HA	1:d:185:GLU:OE1	2.08	0.53
1:i:120:ARG:HD2	1:i:226:LEU:HB2	1.91	0.53
1:i:194:SER:N	1:i:197:ASN:O	2.40	0.53
1:j:96:THR:HA	1:j:185:GLU:OE1	2.08	0.53
1:k:96:THR:HA	1:k:185:GLU:OE1	2.08	0.53
1:l:82:VAL:HG21	1:l:170:VAL:HG11	1.90	0.53
1:n:131:LEU:HD22	1:n:211:TRP:CE3	2.44	0.53
1:p:131:LEU:HD22	1:p:211:TRP:CE3	2.44	0.53
1:q:131:LEU:HD22	1:q:211:TRP:CE3	2.44	0.53
1:r:120:ARG:HD2	1:r:226:LEU:HB2	1.91	0.53
1:u:85:TRP:CZ2	1:u:271:HIS:CE1	2.97	0.53
1:u:250:GLY:CA	1:u:331:GLY:HA2	2.39	0.53
1:w:250:GLY:CA	1:w:331:GLY:HA2	2.39	0.53
1:x:241:GLN:CB	1:x:243:ASN:HD21	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:250:GLY:CA	1:y:331:GLY:HA2	2.39	0.53
1:z:85:TRP:CZ2	1:z:271:HIS:CE1	2.97	0.53
1:1:120:ARG:HD2	1:1:226:LEU:HB2	1.91	0.53
1:2:250:GLY:CA	1:2:331:GLY:HA2	2.39	0.53
1:B:82:VAL:HG21	1:B:170:VAL:HG11	1.90	0.53
1:B:96:THR:HA	1:B:185:GLU:OE1	2.08	0.53
1:C:96:THR:HA	1:C:185:GLU:OE1	2.08	0.53
1:D:85:TRP:CZ2	1:D:271:HIS:CE1	2.97	0.53
1:E:131:LEU:HD22	1:E:211:TRP:CE3	2.44	0.53
1:G:131:LEU:HD22	1:G:211:TRP:CE3	2.44	0.53
1:H:120:ARG:HD2	1:H:226:LEU:HB2	1.91	0.53
1:H:250:GLY:CA	1:H:331:GLY:HA2	2.39	0.53
1:I:120:ARG:HD2	1:I:226:LEU:HB2	1.91	0.53
1:J:250:GLY:CA	1:J:331:GLY:HA2	2.39	0.53
1:M:85:TRP:CZ2	1:M:271:HIS:CE1	2.97	0.53
1:M:131:LEU:HD22	1:M:211:TRP:CE3	2.44	0.53
1:M:194:SER:N	1:M:197:ASN:O	2.40	0.53
1:N:120:ARG:HD2	1:N:226:LEU:HB2	1.91	0.53
1:N:241:GLN:CB	1:N:243:ASN:HD21	2.22	0.53
1:T:96:THR:HA	1:T:185:GLU:OE1	2.08	0.53
1:T:250:GLY:CA	1:T:331:GLY:HA2	2.39	0.53
1:U:131:LEU:HD22	1:U:211:TRP:CE3	2.44	0.53
1:Z:156:TYR:HB3	1:Z:212:LYS:HG2	1.91	0.53
1:4:250:GLY:CA	1:4:331:GLY:HA2	2.39	0.53
1:a:120:ARG:HD2	1:a:226:LEU:HB2	1.91	0.53
1:d:120:ARG:HD2	1:d:226:LEU:HB2	1.91	0.53
1:d:250:GLY:CA	1:d:331:GLY:HA2	2.39	0.53
1:g:241:GLN:CB	1:g:243:ASN:HD21	2.22	0.53
1:h:156:TYR:HB3	1:h:212:LYS:HG2	1.91	0.53
1:i:85:TRP:CZ2	1:i:271:HIS:CE1	2.97	0.53
1:k:82:VAL:HG21	1:k:170:VAL:HG11	1.90	0.53
1:k:122:THR:CG2	1:k:123:LYS:N	2.48	0.53
1:k:156:TYR:HB3	1:k:212:LYS:HG2	1.91	0.53
1:l:250:GLY:CA	1:l:331:GLY:HA2	2.39	0.53
1:m:239:VAL:HG11	1:m:268:MET:HE1	1.90	0.53
1:r:80:MET:SD	1:r:192:THR:OG1	2.61	0.53
1:s:82:VAL:HG21	1:s:170:VAL:HG11	1.90	0.53
1:w:241:GLN:CB	1:w:243:ASN:HD21	2.22	0.53
1:x:96:THR:HA	1:x:185:GLU:OE1	2.08	0.53
1:B:156:TYR:HB3	1:B:212:LYS:HG2	1.91	0.52
1:B:241:GLN:CB	1:B:243:ASN:HD21	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:131:LEU:HD22	1:D:211:TRP:CE3	2.44	0.52
1:E:85:TRP:CZ2	1:E:271:HIS:CE1	2.97	0.52
1:E:241:GLN:NE2	1:E:268:MET:HE3	2.25	0.52
1:G:241:GLN:NE2	1:G:268:MET:HE3	2.25	0.52
1:G:241:GLN:CB	1:G:243:ASN:HD21	2.22	0.52
1:H:96:THR:HA	1:H:185:GLU:OE1	2.08	0.52
1:H:143:GLY:O	1:H:144:THR:OG1	2.25	0.52
1:H:156:TYR:HB3	1:H:212:LYS:HG2	1.91	0.52
1:I:85:TRP:CZ2	1:I:271:HIS:CE1	2.97	0.52
1:J:82:VAL:HG21	1:J:170:VAL:HG11	1.90	0.52
1:L:96:THR:HA	1:L:185:GLU:OE1	2.08	0.52
1:M:241:GLN:CB	1:M:243:ASN:HD21	2.22	0.52
1:O:96:THR:HA	1:O:185:GLU:OE1	2.08	0.52
1:R:250:GLY:CA	1:R:331:GLY:HA2	2.39	0.52
1:T:169:LYS:HE2	1:T:345:GLN:HE21	1.72	0.52
1:W:85:TRP:CZ2	1:W:271:HIS:CE1	2.97	0.52
1:W:131:LEU:HD22	1:W:211:TRP:CE3	2.44	0.52
1:X:120:ARG:HD2	1:X:226:LEU:HB2	1.91	0.52
1:X:250:GLY:CA	1:X:331:GLY:HA2	2.39	0.52
1:Z:239:VAL:HG11	1:Z:268:MET:HE1	1.90	0.52
1:8:194:SER:N	1:8:197:ASN:O	2.40	0.52
1:7:237:ALA:HA	1:7:333:LEU:HA	1.90	0.52
1:6:156:TYR:HB3	1:6:212:LYS:HG2	1.91	0.52
1:4:96:THR:HA	1:4:185:GLU:OE1	2.08	0.52
1:3:250:GLY:CA	1:3:331:GLY:HA2	2.39	0.52
1:b:250:GLY:CA	1:b:331:GLY:HA2	2.39	0.52
1:d:156:TYR:HB3	1:d:212:LYS:HG2	1.91	0.52
1:e:120:ARG:HD2	1:e:226:LEU:HB2	1.91	0.52
1:k:241:GLN:CB	1:k:243:ASN:HD21	2.22	0.52
1:l:241:GLN:CB	1:l:243:ASN:HD21	2.22	0.52
1:n:85:TRP:CZ2	1:n:271:HIS:CE1	2.97	0.52
1:n:241:GLN:NE2	1:n:268:MET:HE3	2.25	0.52
1:o:250:GLY:CA	1:o:331:GLY:HA2	2.39	0.52
1:p:120:ARG:HD2	1:p:226:LEU:HB2	1.91	0.52
1:r:85:TRP:CZ2	1:r:271:HIS:CE1	2.97	0.52
1:u:131:LEU:HD22	1:u:211:TRP:CE3	2.44	0.52
1:x:250:GLY:CA	1:x:331:GLY:HA2	2.39	0.52
1:z:131:LEU:HD22	1:z:211:TRP:CE3	2.44	0.52
1:1:241:GLN:CB	1:1:243:ASN:HD21	2.22	0.52
1:B:131:LEU:HD22	1:B:211:TRP:CE3	2.44	0.52
1:F:120:ARG:HD2	1:F:226:LEU:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:270:GLY:CA	1:F:346:PHE:CD1	2.86	0.52
1:G:96:THR:HA	1:G:185:GLU:OE1	2.08	0.52
1:G:250:GLY:CA	1:G:331:GLY:HA2	2.39	0.52
1:K:82:VAL:HG21	1:K:170:VAL:HG11	1.90	0.52
1:K:131:LEU:HD22	1:K:211:TRP:CE3	2.44	0.52
1:L:239:VAL:HG11	1:L:268:MET:HE1	1.90	0.52
1:Q:120:ARG:HD2	1:Q:226:LEU:HB2	1.91	0.52
1:S:120:ARG:HD2	1:S:226:LEU:HB2	1.91	0.52
1:U:120:ARG:HD2	1:U:226:LEU:HB2	1.91	0.52
1:W:120:ARG:HD2	1:W:226:LEU:HB2	1.91	0.52
1:8:241:GLN:NE2	1:8:268:MET:HE3	2.25	0.52
1:7:156:TYR:HB3	1:7:212:LYS:HG2	1.91	0.52
1:7:169:LYS:HE2	1:7:345:GLN:HE21	1.72	0.52
1:7:241:GLN:NE2	1:7:268:MET:HE3	2.25	0.52
1:6:241:GLN:NE2	1:6:268:MET:HE3	2.25	0.52
1:a:156:TYR:HB3	1:a:212:LYS:HG2	1.91	0.52
1:a:241:GLN:NE2	1:a:268:MET:HE3	2.25	0.52
1:b:120:ARG:HD2	1:b:226:LEU:HB2	1.91	0.52
1:c:241:GLN:CB	1:c:243:ASN:HD21	2.22	0.52
1:d:143:GLY:O	1:d:144:THR:OG1	2.25	0.52
1:e:85:TRP:CZ2	1:e:271:HIS:CE1	2.97	0.52
1:e:131:LEU:HD22	1:e:211:TRP:CE3	2.44	0.52
1:f:239:VAL:HG11	1:f:268:MET:HE1	1.90	0.52
1:h:194:SER:N	1:h:197:ASN:O	2.40	0.52
1:i:131:LEU:HD22	1:i:211:TRP:CE3	2.44	0.52
1:i:241:GLN:CB	1:i:243:ASN:HD21	2.22	0.52
1:j:156:TYR:HB3	1:j:212:LYS:HG2	1.91	0.52
1:j:194:SER:N	1:j:197:ASN:O	2.40	0.52
1:m:96:THR:HA	1:m:185:GLU:OE1	2.08	0.52
1:o:156:TYR:HB3	1:o:212:LYS:HG2	1.91	0.52
1:q:241:GLN:CB	1:q:243:ASN:HD21	2.22	0.52
1:t:120:ARG:HD2	1:t:226:LEU:HB2	1.91	0.52
1:x:169:LYS:HE2	1:x:345:GLN:HE21	1.72	0.52
1:z:250:GLY:CA	1:z:331:GLY:HA2	2.39	0.52
1:1:156:TYR:HB3	1:1:212:LYS:HG2	1.91	0.52
1:C:156:TYR:HB3	1:C:212:LYS:HG2	1.91	0.52
1:C:179:PRO:O	1:C:188:TYR:OH	2.25	0.52
1:C:241:GLN:CB	1:C:243:ASN:HD21	2.22	0.52
1:C:250:GLY:CA	1:C:331:GLY:HA2	2.39	0.52
1:D:250:GLY:CA	1:D:331:GLY:HA2	2.39	0.52
1:E:241:GLN:CB	1:E:243:ASN:HD21	2.22	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:82:VAL:HG21	1:G:170:VAL:HG11	1.90	0.52
1:I:182:SER:OG	1:I:187:ASP:OD2	2.23	0.52
1:J:241:GLN:CB	1:J:243:ASN:HD21	2.22	0.52
1:N:156:TYR:HB3	1:N:212:LYS:HG2	1.91	0.52
1:Q:156:TYR:HB3	1:Q:212:LYS:HG2	1.91	0.52
1:R:96:THR:HA	1:R:185:GLU:OE1	2.08	0.52
1:R:131:LEU:HD22	1:R:211:TRP:CE3	2.44	0.52
1:S:241:GLN:NE2	1:S:268:MET:HE3	2.25	0.52
1:T:270:GLY:O	1:T:272:TYR:CD2	2.63	0.52
1:V:156:TYR:HB3	1:V:212:LYS:HG2	1.91	0.52
1:V:241:GLN:NE2	1:V:268:MET:HE3	2.25	0.52
1:W:241:GLN:NE2	1:W:268:MET:HE3	2.25	0.52
1:W:250:GLY:CA	1:W:331:GLY:HA2	2.39	0.52
1:Z:120:ARG:HD2	1:Z:226:LEU:HB2	1.91	0.52
1:5:241:GLN:NE2	1:5:268:MET:HE3	2.25	0.52
1:4:85:TRP:CZ2	1:4:271:HIS:CE1	2.97	0.52
1:3:96:THR:HA	1:3:185:GLU:OE1	2.08	0.52
1:a:143:GLY:O	1:a:144:THR:OG1	2.25	0.52
1:e:241:GLN:NE2	1:e:268:MET:HE3	2.25	0.52
1:e:250:GLY:CA	1:e:331:GLY:HA2	2.39	0.52
1:f:120:ARG:HD2	1:f:226:LEU:HB2	1.91	0.52
1:g:82:VAL:HG21	1:g:170:VAL:HG11	1.90	0.52
1:h:241:GLN:NE2	1:h:268:MET:HE3	2.25	0.52
1:h:270:GLY:O	1:h:272:TYR:CD2	2.63	0.52
1:j:250:GLY:CA	1:j:331:GLY:HA2	2.39	0.52
1:k:131:LEU:HD22	1:k:211:TRP:CE3	2.44	0.52
1:m:250:GLY:CA	1:m:331:GLY:HA2	2.39	0.52
1:o:143:GLY:O	1:o:144:THR:OG1	2.25	0.52
1:q:82:VAL:HG21	1:q:170:VAL:HG11	1.90	0.52
1:q:96:THR:HA	1:q:185:GLU:OE1	2.08	0.52
1:q:156:TYR:HB3	1:q:212:LYS:HG2	1.91	0.52
1:q:241:GLN:NE2	1:q:268:MET:HE3	2.25	0.52
1:q:250:GLY:CA	1:q:331:GLY:HA2	2.39	0.52
1:s:120:ARG:HD2	1:s:226:LEU:HB2	1.91	0.52
1:t:122:THR:CG2	1:t:123:LYS:H	1.93	0.52
1:u:96:THR:HA	1:u:185:GLU:OE1	2.08	0.52
1:v:120:ARG:HD2	1:v:226:LEU:HB2	1.91	0.52
1:v:241:GLN:NE2	1:v:268:MET:HE3	2.25	0.52
1:w:241:GLN:NE2	1:w:268:MET:HE3	2.25	0.52
1:x:270:GLY:O	1:x:272:TYR:CD2	2.63	0.52
1:1:239:VAL:HG11	1:1:268:MET:HE1	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:270:GLY:O	1:1:272:TYR:CD2	2.63	0.52
1:2:241:GLN:CB	1:2:243:ASN:HD21	2.22	0.52
1:A:120:ARG:HD2	1:A:226:LEU:HB2	1.91	0.52
1:B:122:THR:CG2	1:B:123:LYS:N	2.48	0.52
1:E:270:GLY:CA	1:E:346:PHE:CD1	2.87	0.52
1:H:238:TYR:CZ	1:H:334:VAL:HG12	2.45	0.52
1:L:250:GLY:CA	1:L:331:GLY:HA2	2.39	0.52
1:N:270:GLY:O	1:N:272:TYR:CD2	2.63	0.52
1:O:241:GLN:CB	1:O:243:ASN:HD21	2.22	0.52
1:R:270:GLY:O	1:R:272:TYR:CD2	2.63	0.52
1:S:241:GLN:CB	1:S:243:ASN:HD21	2.22	0.52
1:T:238:TYR:CZ	1:T:334:VAL:HG12	2.45	0.52
1:V:270:GLY:O	1:V:272:TYR:CD2	2.63	0.52
1:W:96:THR:HA	1:W:185:GLU:OE1	2.08	0.52
1:Y:241:GLN:CB	1:Y:243:ASN:HD21	2.22	0.52
1:Z:143:GLY:O	1:Z:144:THR:OG1	2.25	0.52
1:Z:241:GLN:NE2	1:Z:268:MET:HE3	2.25	0.52
1:8:241:GLN:CB	1:8:243:ASN:HD21	2.22	0.52
1:8:270:GLY:O	1:8:272:TYR:CD2	2.63	0.52
1:7:241:GLN:CB	1:7:243:ASN:HD21	2.22	0.52
1:6:169:LYS:HE2	1:6:345:GLN:HE21	1.72	0.52
1:5:270:GLY:O	1:5:272:TYR:CD2	2.63	0.52
1:3:85:TRP:CZ2	1:3:271:HIS:CE1	2.97	0.52
1:a:82:VAL:HG21	1:a:170:VAL:HG11	1.90	0.52
1:a:270:GLY:O	1:a:272:TYR:CD2	2.63	0.52
1:d:194:SER:N	1:d:197:ASN:O	2.40	0.52
1:d:238:TYR:CZ	1:d:334:VAL:HG12	2.45	0.52
1:e:96:THR:HA	1:e:185:GLU:OE1	2.08	0.52
1:f:241:GLN:NE2	1:f:268:MET:HE3	2.25	0.52
1:g:131:LEU:HD22	1:g:211:TRP:CE3	2.44	0.52
1:h:143:GLY:O	1:h:144:THR:OG1	2.25	0.52
1:j:241:GLN:CB	1:j:243:ASN:HD21	2.22	0.52
1:o:120:ARG:HD2	1:o:226:LEU:HB2	1.91	0.52
1:o:131:LEU:HD22	1:o:211:TRP:CE3	2.44	0.52
1:p:156:TYR:HB3	1:p:212:LYS:HG2	1.91	0.52
1:u:120:ARG:HD2	1:u:226:LEU:HB2	1.91	0.52
1:u:270:GLY:O	1:u:272:TYR:CD2	2.63	0.52
1:v:131:LEU:HD22	1:v:211:TRP:CE3	2.44	0.52
1:v:241:GLN:CB	1:v:243:ASN:HD21	2.22	0.52
1:v:250:GLY:CA	1:v:331:GLY:HA2	2.39	0.52
1:w:270:GLY:O	1:w:272:TYR:CD2	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:238:TYR:CZ	1:x:334:VAL:HG12	2.45	0.52
1:2:96:THR:HA	1:2:185:GLU:OE1	2.08	0.52
1:A:270:GLY:O	1:A:272:TYR:CD2	2.63	0.52
1:C:194:SER:N	1:C:197:ASN:O	2.40	0.52
1:F:156:TYR:HB3	1:F:212:LYS:HG2	1.91	0.52
1:F:270:GLY:O	1:F:272:TYR:CD2	2.63	0.52
1:G:156:TYR:HB3	1:G:212:LYS:HG2	1.91	0.52
1:H:80:MET:SD	1:H:192:THR:OG1	2.61	0.52
1:J:238:TYR:CZ	1:J:334:VAL:HG12	2.45	0.52
1:K:250:GLY:CA	1:K:331:GLY:HA2	2.39	0.52
1:L:85:TRP:CZ2	1:L:271:HIS:CE1	2.97	0.52
1:L:270:GLY:O	1:L:272:TYR:CD2	2.63	0.52
1:S:131:LEU:HD22	1:S:211:TRP:CE3	2.44	0.52
1:S:250:GLY:CA	1:S:331:GLY:HA2	2.39	0.52
1:V:82:VAL:HG21	1:V:170:VAL:HG11	1.90	0.52
1:V:238:TYR:CZ	1:V:334:VAL:HG12	2.45	0.52
1:Y:241:GLN:NE2	1:Y:268:MET:HE3	2.25	0.52
1:Z:82:VAL:HG21	1:Z:170:VAL:HG11	1.90	0.52
1:8:131:LEU:HD22	1:8:211:TRP:CE3	2.44	0.52
1:8:143:GLY:O	1:8:144:THR:OG1	2.25	0.52
1:7:250:GLY:CA	1:7:331:GLY:HA2	2.39	0.52
1:4:82:VAL:HG21	1:4:170:VAL:HG11	1.90	0.52
1:a:238:TYR:CZ	1:a:334:VAL:HG12	2.45	0.52
1:f:82:VAL:HG21	1:f:170:VAL:HG11	1.90	0.52
1:h:241:GLN:CB	1:h:243:ASN:HD21	2.22	0.52
1:m:82:VAL:HG21	1:m:170:VAL:HG11	1.90	0.52
1:m:85:TRP:CZ2	1:m:271:HIS:CE1	2.97	0.52
1:n:241:GLN:CB	1:n:243:ASN:HD21	2.22	0.52
1:n:270:GLY:CA	1:n:346:PHE:CD1	2.87	0.52
1:p:96:THR:HA	1:p:185:GLU:OE1	2.08	0.52
1:p:270:GLY:O	1:p:272:TYR:CD2	2.63	0.52
1:s:270:GLY:O	1:s:272:TYR:CD2	2.63	0.52
1:z:270:GLY:O	1:z:272:TYR:CD2	2.63	0.52
1:2:131:LEU:HD22	1:2:211:TRP:CE3	2.44	0.52
1:D:238:TYR:CZ	1:D:334:VAL:HG12	2.45	0.52
1:D:270:GLY:O	1:D:272:TYR:CD2	2.63	0.52
1:E:82:VAL:HG21	1:E:170:VAL:HG11	1.90	0.52
1:E:120:ARG:HD2	1:E:226:LEU:HB2	1.91	0.52
1:E:270:GLY:O	1:E:272:TYR:CD2	2.63	0.52
1:H:194:SER:N	1:H:197:ASN:O	2.40	0.52
1:I:156:TYR:HB3	1:I:212:LYS:HG2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:71:ASN:HD22	1:7:279:ARG:HG3	1.74	0.52
1:L:238:TYR:CZ	1:L:334:VAL:HG12	2.45	0.52
1:M:82:VAL:HG21	1:M:170:VAL:HG11	1.90	0.52
1:M:270:GLY:O	1:M:272:TYR:CD2	2.63	0.52
1:N:80:MET:SD	1:N:192:THR:OG1	2.61	0.52
1:N:239:VAL:HG11	1:N:268:MET:HE1	1.91	0.52
1:N:241:GLN:NE2	1:N:268:MET:HE3	2.25	0.52
1:Q:131:LEU:HD22	1:Q:211:TRP:CE3	2.44	0.52
1:Q:238:TYR:CZ	1:Q:334:VAL:HG12	2.45	0.52
1:R:120:ARG:HD2	1:R:226:LEU:HB2	1.91	0.52
1:S:270:GLY:O	1:S:272:TYR:CD2	2.63	0.52
1:V:143:GLY:O	1:V:144:THR:OG1	2.25	0.52
1:W:239:VAL:HG11	1:W:268:MET:HE1	1.90	0.52
1:8:266:ARG:NH2	1:8:360:GLY:O	2.29	0.52
1:7:96:THR:HA	1:7:185:GLU:OE1	2.08	0.52
1:7:270:GLY:O	1:7:272:TYR:CD2	2.63	0.52
1:6:96:THR:HA	1:6:185:GLU:OE1	2.08	0.52
1:6:241:GLN:CB	1:6:243:ASN:HD21	2.22	0.52
1:6:250:GLY:CA	1:6:331:GLY:HA2	2.39	0.52
1:3:82:VAL:HG21	1:3:170:VAL:HG11	1.90	0.52
1:c:241:GLN:NE2	1:c:268:MET:HE3	2.25	0.52
1:f:143:GLY:O	1:f:144:THR:OG1	2.25	0.52
1:g:250:GLY:CA	1:g:331:GLY:HA2	2.39	0.52
1:h:131:LEU:HD22	1:h:211:TRP:CE3	2.44	0.52
1:i:82:VAL:HG21	1:i:170:VAL:HG11	1.90	0.52
1:i:270:GLY:O	1:i:272:TYR:CD2	2.63	0.52
1:l:238:TYR:CZ	1:l:334:VAL:HG12	2.45	0.52
1:m:238:TYR:CZ	1:m:334:VAL:HG12	2.45	0.52
1:m:270:GLY:O	1:m:272:TYR:CD2	2.63	0.52
1:n:82:VAL:HG21	1:n:170:VAL:HG11	1.90	0.52
1:n:270:GLY:O	1:n:272:TYR:CD2	2.63	0.52
1:o:238:TYR:CZ	1:o:334:VAL:HG12	2.45	0.52
1:p:270:GLY:CA	1:p:346:PHE:CD1	2.87	0.52
1:s:156:TYR:HB3	1:s:212:LYS:HG2	1.91	0.52
1:t:250:GLY:CA	1:t:331:GLY:HA2	2.39	0.52
1:v:270:GLY:O	1:v:272:TYR:CD2	2.63	0.52
1:z:238:TYR:CZ	1:z:334:VAL:HG12	2.45	0.52
1:1:80:MET:SD	1:1:192:THR:OG1	2.61	0.52
1:A:241:GLN:NE2	1:A:268:MET:HE3	2.25	0.52
1:F:96:THR:HA	1:F:185:GLU:OE1	2.08	0.52
1:F:238:TYR:CZ	1:F:334:VAL:HG12	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:241:GLN:NE2	1:F:268:MET:HE3	2.25	0.52
1:F:250:GLY:CA	1:F:331:GLY:HA2	2.39	0.52
1:K:238:TYR:CZ	1:K:334:VAL:HG12	2.45	0.52
1:L:82:VAL:HG21	1:L:170:VAL:HG11	1.90	0.52
1:N:82:VAL:HG21	1:N:170:VAL:HG11	1.90	0.52
1:O:131:LEU:HD22	1:O:211:TRP:CE3	2.44	0.52
1:P:241:GLN:CB	1:P:243:ASN:HD21	2.22	0.52
1:V:239:VAL:HG11	1:V:268:MET:HE1	1.91	0.52
1:W:156:TYR:HB3	1:W:212:LYS:HG2	1.91	0.52
1:X:156:TYR:HB3	1:X:212:LYS:HG2	1.91	0.52
1:Y:238:TYR:CZ	1:Y:334:VAL:HG12	2.45	0.52
1:7:131:LEU:HD22	1:7:211:TRP:CE3	2.44	0.52
1:6:270:GLY:O	1:6:272:TYR:CD2	2.63	0.52
1:4:131:LEU:HD22	1:4:211:TRP:CE3	2.44	0.52
1:3:270:GLY:O	1:3:272:TYR:CD2	2.63	0.52
1:b:156:TYR:HB3	1:b:212:LYS:HG2	1.91	0.52
1:b:238:TYR:CZ	1:b:334:VAL:HG12	2.45	0.52
1:b:270:GLY:O	1:b:272:TYR:CD2	2.63	0.52
1:c:238:TYR:CZ	1:c:334:VAL:HG12	2.45	0.52
1:c:250:GLY:CA	1:c:331:GLY:HA2	2.39	0.52
1:c:270:GLY:O	1:c:272:TYR:CD2	2.63	0.52
1:d:241:GLN:CB	1:d:243:ASN:HD21	2.22	0.52
1:e:156:TYR:HB3	1:e:212:LYS:HG2	1.91	0.52
1:e:241:GLN:CB	1:e:243:ASN:HD21	2.22	0.52
1:g:238:TYR:CZ	1:g:334:VAL:HG12	2.45	0.52
1:j:241:GLN:NE2	1:j:268:MET:HE3	2.25	0.52
1:k:270:GLY:O	1:k:272:TYR:CD2	2.63	0.52
1:l:131:LEU:HD22	1:l:211:TRP:CE3	2.44	0.52
1:p:238:TYR:CZ	1:p:334:VAL:HG12	2.45	0.52
1:1:82:VAL:HG21	1:1:170:VAL:HG11	1.90	0.52
1:1:241:GLN:NE2	1:1:268:MET:HE3	2.25	0.52
1:A:238:TYR:CZ	1:A:334:VAL:HG12	2.45	0.52
1:B:241:GLN:NE2	1:B:268:MET:HE3	2.25	0.52
1:B:270:GLY:O	1:B:272:TYR:CD2	2.63	0.52
1:H:131:LEU:HD22	1:H:211:TRP:CE3	2.44	0.52
1:H:270:GLY:O	1:H:272:TYR:CD2	2.63	0.52
1:I:250:GLY:CA	1:I:331:GLY:HA2	2.39	0.52
1:I:270:GLY:O	1:I:272:TYR:CD2	2.63	0.52
1:J:131:LEU:HD22	1:J:211:TRP:CE3	2.44	0.52
1:N:131:LEU:HD22	1:N:211:TRP:CE3	2.44	0.52
1:O:270:GLY:O	1:O:272:TYR:CD2	2.63	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:250:GLY:CA	1:U:331:GLY:HA2	2.39	0.52
1:X:238:TYR:CZ	1:X:334:VAL:HG12	2.45	0.52
1:X:241:GLN:NE2	1:X:268:MET:HE3	2.25	0.52
1:X:270:GLY:O	1:X:272:TYR:CD2	2.63	0.52
1:Y:250:GLY:CA	1:Y:331:GLY:HA2	2.39	0.52
1:Y:270:GLY:O	1:Y:272:TYR:CD2	2.63	0.52
1:Z:250:GLY:CA	1:Z:331:GLY:HA2	2.39	0.52
1:5:120:ARG:HD2	1:5:226:LEU:HB2	1.91	0.52
1:4:270:GLY:O	1:4:272:TYR:CD2	2.63	0.52
1:a:239:VAL:HG11	1:a:268:MET:HE1	1.90	0.52
1:d:131:LEU:HD22	1:d:211:TRP:CE3	2.44	0.52
1:d:270:GLY:O	1:d:272:TYR:CD2	2.63	0.52
1:f:250:GLY:CA	1:f:331:GLY:HA2	2.39	0.52
1:g:241:GLN:NE2	1:g:268:MET:HE3	2.25	0.52
1:i:270:GLY:CA	1:i:346:PHE:CD1	2.87	0.52
1:k:241:GLN:NE2	1:k:268:MET:HE3	2.25	0.52
1:n:120:ARG:HD2	1:n:226:LEU:HB2	1.91	0.52
1:n:250:GLY:CA	1:n:331:GLY:HA2	2.39	0.52
1:p:241:GLN:NE2	1:p:268:MET:HE3	2.25	0.52
1:p:250:GLY:CA	1:p:331:GLY:HA2	2.39	0.52
1:r:156:TYR:HB3	1:r:212:LYS:HG2	1.91	0.52
1:r:270:GLY:O	1:r:272:TYR:CD2	2.63	0.52
1:s:238:TYR:CZ	1:s:334:VAL:HG12	2.45	0.52
1:s:241:GLN:NE2	1:s:268:MET:HE3	2.25	0.52
1:t:156:TYR:HB3	1:t:212:LYS:HG2	1.91	0.52
1:y:241:GLN:CB	1:y:243:ASN:HD21	2.22	0.52
1:A:156:TYR:HB3	1:A:212:LYS:HG2	1.91	0.52
1:C:120:ARG:HD2	1:C:226:LEU:HB2	1.91	0.52
1:C:241:GLN:NE2	1:C:268:MET:HE3	2.25	0.52
1:E:250:GLY:CA	1:E:331:GLY:HA2	2.39	0.52
1:H:241:GLN:CB	1:H:243:ASN:HD21	2.22	0.52
1:H:270:GLY:CA	1:H:346:PHE:CD1	2.87	0.52
1:K:241:GLN:NE2	1:K:268:MET:HE3	2.25	0.52
1:N:238:TYR:CZ	1:N:334:VAL:HG12	2.45	0.52
1:P:270:GLY:O	1:P:272:TYR:CD2	2.63	0.52
1:Q:241:GLN:CB	1:Q:243:ASN:HD21	2.22	0.52
1:Y:156:TYR:HB3	1:Y:212:LYS:HG2	1.91	0.52
1:Z:131:LEU:HD22	1:Z:211:TRP:CE3	2.44	0.52
1:6:131:LEU:HD22	1:6:211:TRP:CE3	2.44	0.52
1:3:120:ARG:HD2	1:3:226:LEU:HB2	1.91	0.52
1:3:131:LEU:HD22	1:3:211:TRP:CE3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:241:GLN:NE2	1:b:268:MET:HE3	2.25	0.52
1:e:82:VAL:HG21	1:e:170:VAL:HG11	1.90	0.52
1:e:239:VAL:HG11	1:e:268:MET:HE1	1.90	0.52
1:f:131:LEU:HD22	1:f:211:TRP:CE3	2.44	0.52
1:h:120:ARG:HD2	1:h:226:LEU:HB2	1.91	0.52
1:h:250:GLY:CA	1:h:331:GLY:HA2	2.39	0.52
1:h:266:ARG:NH2	1:h:360:GLY:O	2.29	0.52
1:j:120:ARG:HD2	1:j:226:LEU:HB2	1.91	0.52
1:w:120:ARG:HD2	1:w:226:LEU:HB2	1.91	0.52
1:x:239:VAL:HG11	1:x:268:MET:HE1	1.90	0.52
1:y:238:TYR:CZ	1:y:334:VAL:HG12	2.45	0.52
1:y:270:GLY:O	1:y:272:TYR:CD2	2.63	0.52
1:1:131:LEU:HD22	1:1:211:TRP:CE3	2.44	0.52
1:1:238:TYR:CZ	1:1:334:VAL:HG12	2.45	0.52
1:D:156:TYR:HB3	1:D:212:LYS:HG2	1.91	0.52
1:L:156:TYR:HB3	1:L:212:LYS:HG2	1.91	0.52
1:O:241:GLN:NE2	1:O:268:MET:HE3	2.25	0.52
1:P:238:TYR:CZ	1:P:334:VAL:HG12	2.45	0.52
1:S:82:VAL:HG21	1:S:170:VAL:HG11	1.90	0.52
1:T:239:VAL:HG11	1:T:268:MET:HE1	1.91	0.52
1:U:156:TYR:HB3	1:U:212:LYS:HG2	1.91	0.52
1:U:270:GLY:O	1:U:272:TYR:CD2	2.63	0.52
1:W:82:VAL:HG21	1:W:170:VAL:HG11	1.90	0.52
1:W:241:GLN:CB	1:W:243:ASN:HD21	2.22	0.52
1:8:250:GLY:CA	1:8:331:GLY:HA2	2.39	0.52
1:4:120:ARG:HD2	1:4:226:LEU:HB2	1.91	0.52
1:d:241:GLN:NE2	1:d:268:MET:HE3	2.25	0.52
1:f:270:GLY:O	1:f:272:TYR:CD2	2.63	0.52
1:m:156:TYR:HB3	1:m:212:LYS:HG2	1.91	0.52
1:p:133:LEU:N	1:p:213:GLN:HE21	1.97	0.52
1:p:241:GLN:CB	1:p:243:ASN:HD21	2.22	0.52
1:r:250:GLY:CA	1:r:331:GLY:HA2	2.39	0.52
1:2:270:GLY:O	1:2:272:TYR:CD2	2.63	0.52
1:B:250:GLY:CA	1:B:331:GLY:HA2	2.39	0.51
1:C:239:VAL:HG11	1:C:268:MET:HE1	1.90	0.51
1:D:120:ARG:HD2	1:D:226:LEU:HB2	1.91	0.51
1:F:241:GLN:CB	1:F:243:ASN:HD21	2.22	0.51
1:H:241:GLN:NE2	1:H:268:MET:HE3	2.25	0.51
1:J:239:VAL:HG11	1:J:268:MET:HE1	1.90	0.51
1:K:156:TYR:HB3	1:K:212:LYS:HG2	1.91	0.51
1:M:241:GLN:NE2	1:M:268:MET:HE3	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:250:GLY:CA	1:M:331:GLY:HA2	2.39	0.51
1:M:270:GLY:CA	1:M:346:PHE:CD1	2.87	0.51
1:R:82:VAL:HG21	1:R:170:VAL:HG11	1.90	0.51
1:R:238:TYR:CZ	1:R:334:VAL:HG12	2.45	0.51
1:Z:270:GLY:O	1:Z:272:TYR:CD2	2.63	0.51
1:8:120:ARG:HD2	1:8:226:LEU:HB2	1.91	0.51
1:7:120:ARG:HD2	1:7:226:LEU:HB2	1.91	0.51
1:6:182:SER:OG	1:6:187:ASP:OD2	2.23	0.51
1:d:80:MET:SD	1:d:192:THR:OG1	2.61	0.51
1:g:156:TYR:HB3	1:g:212:LYS:HG2	1.91	0.51
1:i:250:GLY:CA	1:i:331:GLY:HA2	2.39	0.51
1:j:239:VAL:HG11	1:j:268:MET:HE1	1.90	0.51
1:k:120:ARG:HD2	1:k:226:LEU:HB2	1.91	0.51
1:k:250:GLY:CA	1:k:331:GLY:HA2	2.39	0.51
1:n:238:TYR:CZ	1:n:334:VAL:HG12	2.45	0.51
1:o:194:SER:N	1:o:197:ASN:O	2.40	0.51
1:o:241:GLN:CB	1:o:243:ASN:HD21	2.22	0.51
1:q:120:ARG:HD2	1:q:226:LEU:HB2	1.91	0.51
1:r:241:GLN:NE2	1:r:268:MET:HE3	2.25	0.51
1:t:241:GLN:NE2	1:t:268:MET:HE3	2.25	0.51
1:v:82:VAL:HG21	1:v:170:VAL:HG11	1.90	0.51
1:x:133:LEU:N	1:x:213:GLN:HE21	1.97	0.51
1:z:120:ARG:HD2	1:z:226:LEU:HB2	1.91	0.51
1:2:120:ARG:HD2	1:2:226:LEU:HB2	1.91	0.51
1:E:238:TYR:CZ	1:E:334:VAL:HG12	2.45	0.51
1:F:182:SER:OG	1:F:187:ASP:OD2	2.23	0.51
1:G:120:ARG:HD2	1:G:226:LEU:HB2	1.91	0.51
1:M:238:TYR:CZ	1:M:334:VAL:HG12	2.45	0.51
1:Q:133:LEU:N	1:Q:213:GLN:HE21	1.97	0.51
1:Q:194:SER:N	1:Q:197:ASN:O	2.40	0.51
1:U:241:GLN:NE2	1:U:268:MET:HE3	2.25	0.51
1:X:241:GLN:CB	1:X:243:ASN:HD21	2.22	0.51
1:6:120:ARG:HD2	1:6:226:LEU:HB2	1.91	0.51
1:5:156:TYR:HB3	1:5:212:LYS:HG2	1.91	0.51
1:c:156:TYR:HB3	1:c:212:LYS:HG2	1.91	0.51
1:i:238:TYR:CZ	1:i:334:VAL:HG12	2.45	0.51
1:i:241:GLN:NE2	1:i:268:MET:HE3	2.25	0.51
1:p:194:SER:N	1:p:197:ASN:O	2.40	0.51
1:t:270:GLY:O	1:t:272:TYR:CD2	2.63	0.51
1:u:82:VAL:HG21	1:u:170:VAL:HG11	1.90	0.51
1:u:238:TYR:CZ	1:u:334:VAL:HG12	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:156:TYR:HB3	1:w:212:LYS:HG2	1.91	0.51
1:z:156:TYR:HB3	1:z:212:LYS:HG2	1.91	0.51
1:2:241:GLN:NE2	1:2:268:MET:HE3	2.25	0.51
1:A:250:GLY:CA	1:A:331:GLY:HA2	2.39	0.51
1:B:120:ARG:HD2	1:B:226:LEU:HB2	1.91	0.51
1:H:40:SER:O	1:W:212:LYS:NZ	2.34	0.51
1:K:120:ARG:HD2	1:K:226:LEU:HB2	1.91	0.51
1:K:270:GLY:O	1:K:272:TYR:CD2	2.63	0.51
1:O:120:ARG:HD2	1:O:226:LEU:HB2	1.91	0.51
1:O:156:TYR:HB3	1:O:212:LYS:HG2	1.91	0.51
1:5:238:TYR:CZ	1:5:334:VAL:HG12	2.45	0.51
1:b:241:GLN:CB	1:b:243:ASN:HD21	2.22	0.51
1:d:270:GLY:CA	1:d:346:PHE:CD1	2.87	0.51
1:u:194:SER:N	1:u:197:ASN:O	2.40	0.51
1:w:238:TYR:CZ	1:w:334:VAL:HG12	2.45	0.51
1:z:241:GLN:NE2	1:z:268:MET:HE3	2.25	0.51
1:2:156:TYR:HB3	1:2:212:LYS:HG2	1.91	0.51
1:B:80:MET:SD	1:B:192:THR:OG1	2.61	0.51
1:C:270:GLY:O	1:C:272:TYR:CD2	2.63	0.51
1:D:194:SER:N	1:D:197:ASN:O	2.40	0.51
1:D:241:GLN:NE2	1:D:268:MET:HE3	2.25	0.51
1:I:241:GLN:NE2	1:I:268:MET:HE3	2.25	0.51
1:J:156:TYR:HB3	1:J:212:LYS:HG2	1.91	0.51
1:L:151:PHE:HE1	1:7:151:PHE:CE2	2.29	0.51
1:O:238:TYR:CZ	1:O:334:VAL:HG12	2.45	0.51
1:P:239:VAL:HG11	1:P:268:MET:HE1	1.90	0.51
1:T:241:GLN:NE2	1:T:268:MET:HE3	2.25	0.51
1:7:133:LEU:N	1:7:213:GLN:HE21	1.97	0.51
1:7:238:TYR:CZ	1:7:334:VAL:HG12	2.45	0.51
1:g:120:ARG:HD2	1:g:226:LEU:HB2	1.91	0.51
1:g:270:GLY:O	1:g:272:TYR:CD2	2.63	0.51
1:k:241:GLN:HE21	1:k:268:MET:HB2	1.76	0.51
1:l:156:TYR:HB3	1:l:212:LYS:HG2	1.91	0.51
1:l:239:VAL:HG11	1:l:268:MET:HE1	1.90	0.51
1:s:250:GLY:CA	1:s:331:GLY:HA2	2.39	0.51
1:x:241:GLN:NE2	1:x:268:MET:HE3	2.25	0.51
1:A:241:GLN:HE21	1:A:268:MET:HB2	1.76	0.51
1:A:280:THR:OG1	1:A:282:ASP:O	2.29	0.51
1:B:241:GLN:HE21	1:B:268:MET:HB2	1.76	0.51
1:D:143:GLY:O	1:D:144:THR:OG1	2.25	0.51
1:E:280:THR:OG1	1:E:282:ASP:O	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:133:LEU:N	1:F:213:GLN:HE21	1.97	0.51
1:F:194:SER:N	1:F:197:ASN:O	2.40	0.51
1:H:280:THR:OG1	1:H:282:ASP:O	2.29	0.51
1:I:280:THR:OG1	1:I:282:ASP:O	2.29	0.51
1:Q:270:GLY:O	1:Q:272:TYR:CD2	2.63	0.51
1:R:156:TYR:HB3	1:R:212:LYS:HG2	1.91	0.51
1:R:194:SER:N	1:R:197:ASN:O	2.40	0.51
1:T:156:TYR:HB3	1:T:212:LYS:HG2	1.91	0.51
1:V:241:GLN:HE21	1:V:268:MET:HB2	1.76	0.51
1:7:182:SER:OG	1:7:187:ASP:OD2	2.23	0.51
1:6:122:THR:CG2	1:6:123:LYS:N	2.48	0.51
1:6:238:TYR:CZ	1:6:334:VAL:HG12	2.45	0.51
1:4:238:TYR:CZ	1:4:334:VAL:HG12	2.45	0.51
1:4:241:GLN:NE2	1:4:268:MET:HE3	2.25	0.51
1:3:238:TYR:CZ	1:3:334:VAL:HG12	2.45	0.51
1:3:241:GLN:NE2	1:3:268:MET:HE3	2.25	0.51
1:c:182:SER:OG	1:c:187:ASP:OD2	2.23	0.51
1:d:280:THR:OG1	1:d:282:ASP:O	2.29	0.51
1:f:238:TYR:CZ	1:f:334:VAL:HG12	2.45	0.51
1:j:270:GLY:O	1:j:272:TYR:CD2	2.63	0.51
1:m:143:GLY:O	1:m:144:THR:OG1	2.25	0.51
1:m:241:GLN:NE2	1:m:268:MET:HE3	2.25	0.51
1:r:241:GLN:HE21	1:r:268:MET:HE3	1.76	0.51
1:r:280:THR:OG1	1:r:282:ASP:O	2.29	0.51
1:s:280:THR:OG1	1:s:282:ASP:O	2.29	0.51
1:t:280:THR:OG1	1:t:282:ASP:O	2.29	0.51
1:u:241:GLN:NE2	1:u:268:MET:HE3	2.25	0.51
1:x:156:TYR:HB3	1:x:212:LYS:HG2	1.91	0.51
1:z:194:SER:N	1:z:197:ASN:O	2.40	0.51
1:1:270:GLY:CA	1:1:346:PHE:CD1	2.87	0.51
1:2:238:TYR:CZ	1:2:334:VAL:HG12	2.45	0.51
1:A:151:PHE:CE2	1:B:151:PHE:HE1	2.29	0.51
1:B:241:GLN:HE21	1:B:268:MET:HE3	1.76	0.51
1:E:143:GLY:O	1:E:144:THR:OG1	2.25	0.51
1:F:241:GLN:HE21	1:F:268:MET:HE3	1.76	0.51
1:I:194:SER:N	1:I:197:ASN:O	2.40	0.51
1:J:280:THR:OG1	1:J:282:ASP:O	2.29	0.51
1:L:241:GLN:NE2	1:L:268:MET:HE3	2.25	0.51
1:P:241:GLN:NE2	1:P:268:MET:HE3	2.25	0.51
1:T:133:LEU:N	1:T:213:GLN:HE21	1.97	0.51
1:U:241:GLN:HE21	1:U:268:MET:HE3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:280:THR:OG1	1:U:282:ASP:O	2.29	0.51
1:W:194:SER:N	1:W:197:ASN:O	2.40	0.51
1:Z:238:TYR:CZ	1:Z:334:VAL:HG12	2.45	0.51
1:8:238:TYR:CZ	1:8:334:VAL:HG12	2.45	0.51
1:h:238:TYR:CZ	1:h:334:VAL:HG12	2.45	0.51
1:i:241:GLN:HE21	1:i:268:MET:HB2	1.76	0.51
1:l:270:GLY:O	1:l:272:TYR:CD2	2.63	0.51
1:m:182:SER:OG	1:m:187:ASP:OD2	2.23	0.51
1:n:143:GLY:O	1:n:144:THR:OG1	2.25	0.51
1:n:280:THR:OG1	1:n:282:ASP:O	2.29	0.51
1:o:133:LEU:N	1:o:213:GLN:HE21	1.97	0.51
1:o:270:GLY:O	1:o:272:TYR:CD2	2.63	0.51
1:p:241:GLN:HE21	1:p:268:MET:HE3	1.76	0.51
1:s:241:GLN:HE21	1:s:268:MET:HB2	1.76	0.51
1:t:241:GLN:HE21	1:t:268:MET:HE3	1.76	0.51
1:t:270:GLY:CA	1:t:346:PHE:CD1	2.87	0.51
1:u:156:TYR:HB3	1:u:212:LYS:HG2	1.91	0.51
1:u:266:ARG:NH2	1:u:360:GLY:O	2.29	0.51
1:y:239:VAL:HG11	1:y:268:MET:HE1	1.90	0.51
1:y:241:GLN:NE2	1:y:268:MET:HE3	2.25	0.51
1:B:238:TYR:CZ	1:B:334:VAL:HG12	2.45	0.51
1:D:280:THR:OG1	1:D:282:ASP:O	2.29	0.51
1:G:270:GLY:O	1:G:272:TYR:CD2	2.63	0.51
1:I:241:GLN:HE21	1:I:268:MET:HE3	1.76	0.51
1:J:270:GLY:O	1:J:272:TYR:CD2	2.63	0.51
1:M:241:GLN:HE21	1:M:268:MET:HB2	1.76	0.51
1:R:241:GLN:NE2	1:R:268:MET:HE3	2.25	0.51
1:R:280:THR:OG1	1:R:282:ASP:O	2.29	0.51
1:7:122:THR:CG2	1:7:123:LYS:N	2.48	0.51
1:7:241:GLN:HE21	1:7:268:MET:HB2	1.76	0.51
1:6:241:GLN:HE21	1:6:268:MET:HB2	1.76	0.51
1:5:239:VAL:HG11	1:5:268:MET:HE1	1.91	0.51
1:c:120:ARG:HD2	1:c:226:LEU:HB2	1.91	0.51
1:e:270:GLY:O	1:e:272:TYR:CD2	2.63	0.51
1:k:241:GLN:HE21	1:k:268:MET:HE3	1.76	0.51
1:l:280:THR:OG1	1:l:282:ASP:O	2.29	0.51
1:m:133:LEU:N	1:m:213:GLN:HE21	1.97	0.51
1:q:270:GLY:O	1:q:272:TYR:CD2	2.63	0.51
1:r:238:TYR:CZ	1:r:334:VAL:HG12	2.45	0.51
1:u:280:THR:OG1	1:u:282:ASP:O	2.29	0.51
1:z:280:THR:OG1	1:z:282:ASP:O	2.29	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:238:TYR:CZ	1:C:334:VAL:HG12	2.45	0.51
1:E:241:GLN:HE21	1:E:268:MET:HB2	1.76	0.51
1:H:241:GLN:HE21	1:H:268:MET:HE3	1.76	0.51
1:I:238:TYR:CZ	1:I:334:VAL:HG12	2.45	0.51
1:I:241:GLN:HE21	1:I:268:MET:HB2	1.76	0.51
1:J:120:ARG:HD2	1:J:226:LEU:HB2	1.91	0.51
1:J:241:GLN:NE2	1:J:268:MET:HE3	2.25	0.51
1:L:133:LEU:N	1:L:213:GLN:HE21	1.97	0.51
1:N:270:GLY:CA	1:N:346:PHE:CD1	2.87	0.51
1:S:238:TYR:CZ	1:S:334:VAL:HG12	2.45	0.51
1:U:241:GLN:HE21	1:U:268:MET:HB2	1.76	0.51
1:W:238:TYR:CZ	1:W:334:VAL:HG12	2.45	0.51
1:W:280:THR:OG1	1:W:282:ASP:O	2.29	0.51
1:X:241:GLN:HE21	1:X:268:MET:HE3	1.76	0.51
1:a:241:GLN:HE21	1:a:268:MET:HB2	1.76	0.51
1:a:241:GLN:HE21	1:a:268:MET:HE3	1.76	0.51
1:a:250:GLY:CA	1:a:331:GLY:HA2	2.39	0.51
1:b:241:GLN:HE21	1:b:268:MET:HE3	1.76	0.51
1:d:241:GLN:HE21	1:d:268:MET:HE3	1.76	0.51
1:e:194:SER:N	1:e:197:ASN:O	2.40	0.51
1:j:238:TYR:CZ	1:j:334:VAL:HG12	2.45	0.51
1:l:241:GLN:NE2	1:l:268:MET:HE3	2.25	0.51
1:n:241:GLN:HE21	1:n:268:MET:HB2	1.76	0.51
1:r:241:GLN:HE21	1:r:268:MET:HB2	1.76	0.51
1:s:182:SER:OG	1:s:187:ASP:OD2	2.23	0.51
1:t:182:SER:OG	1:t:187:ASP:OD2	2.23	0.51
1:t:238:TYR:CZ	1:t:334:VAL:HG12	2.45	0.51
1:t:241:GLN:HE21	1:t:268:MET:HB2	1.76	0.51
1:v:156:TYR:HB3	1:v:212:LYS:HG2	1.91	0.51
1:v:182:SER:OG	1:v:187:ASP:OD2	2.23	0.51
1:v:238:TYR:CZ	1:v:334:VAL:HG12	2.45	0.51
1:w:239:VAL:HG11	1:w:268:MET:HE1	1.90	0.51
1:x:194:SER:N	1:x:197:ASN:O	2.40	0.51
1:x:241:GLN:HE21	1:x:268:MET:HE3	1.76	0.51
1:1:143:GLY:O	1:1:144:THR:OG1	2.25	0.51
1:2:133:LEU:N	1:2:213:GLN:HE21	1.97	0.51
1:T:241:GLN:HE21	1:T:268:MET:HE3	1.76	0.51
1:U:270:GLY:CA	1:U:346:PHE:CD1	2.87	0.51
1:V:241:GLN:HE21	1:V:268:MET:HE3	1.76	0.51
1:V:280:THR:OG1	1:V:282:ASP:O	2.29	0.51
1:W:270:GLY:O	1:W:272:TYR:CD2	2.63	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:182:SER:OG	1:Y:187:ASP:OD2	2.23	0.51
1:4:280:THR:OG1	1:4:282:ASP:O	2.29	0.51
1:3:143:GLY:O	1:3:144:THR:OG1	2.25	0.51
1:3:280:THR:OG1	1:3:282:ASP:O	2.29	0.51
1:e:238:TYR:CZ	1:e:334:VAL:HG12	2.45	0.51
1:e:280:THR:OG1	1:e:282:ASP:O	2.29	0.51
1:i:156:TYR:HB3	1:i:212:LYS:HG2	1.91	0.51
1:k:238:TYR:CZ	1:k:334:VAL:HG12	2.45	0.51
1:l:120:ARG:HD2	1:l:226:LEU:HB2	1.91	0.51
1:r:194:SER:N	1:r:197:ASN:O	2.40	0.51
1:t:228:PHE:HE2	1:t:230:PHE:HE1	0.79	0.51
1:x:241:GLN:HE21	1:x:268:MET:HB2	1.76	0.51
1:A:182:SER:OG	1:A:187:ASP:OD2	2.23	0.51
1:A:266:ARG:NH2	1:A:360:GLY:O	2.29	0.51
1:D:133:LEU:N	1:D:213:GLN:HE21	1.97	0.51
1:G:238:TYR:CZ	1:G:334:VAL:HG12	2.45	0.51
1:L:182:SER:OG	1:L:187:ASP:OD2	2.23	0.51
1:M:156:TYR:HB3	1:M:212:LYS:HG2	1.91	0.51
1:M:280:THR:OG1	1:M:282:ASP:O	2.29	0.51
1:N:143:GLY:O	1:N:144:THR:OG1	2.25	0.51
1:N:280:THR:OG1	1:N:282:ASP:O	2.29	0.51
1:R:266:ARG:NH2	1:R:360:GLY:O	2.29	0.51
1:S:156:TYR:HB3	1:S:212:LYS:HG2	1.91	0.51
1:S:280:THR:OG1	1:S:282:ASP:O	2.29	0.51
1:T:194:SER:N	1:T:197:ASN:O	2.40	0.51
1:T:241:GLN:HE21	1:T:268:MET:HB2	1.76	0.51
1:U:238:TYR:CZ	1:U:334:VAL:HG12	2.45	0.51
1:V:250:GLY:CA	1:V:331:GLY:HA2	2.39	0.51
1:Y:120:ARG:HD2	1:Y:226:LEU:HB2	1.91	0.51
1:6:133:LEU:N	1:6:213:GLN:HE21	1.97	0.51
1:4:239:VAL:HG11	1:4:268:MET:HE1	1.90	0.51
1:a:280:THR:OG1	1:a:282:ASP:O	2.29	0.51
1:c:228:PHE:HE2	1:c:230:PHE:HE1	0.79	0.51
1:g:241:GLN:HE21	1:g:268:MET:HE3	1.76	0.51
1:h:280:THR:OG1	1:h:282:ASP:O	2.29	0.51
1:m:194:SER:N	1:m:197:ASN:O	2.40	0.51
1:v:280:THR:OG1	1:v:282:ASP:O	2.29	0.51
1:C:241:GLN:HE21	1:C:268:MET:HE3	1.76	0.50
1:G:280:THR:OG1	1:G:282:ASP:O	2.29	0.50
1:J:194:SER:N	1:J:197:ASN:O	2.40	0.50
1:J:241:GLN:HE21	1:J:268:MET:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:241:GLN:HE21	1:K:268:MET:HE3	1.76	0.50
1:K:280:THR:OG1	1:K:282:ASP:O	2.29	0.50
1:M:241:GLN:HE21	1:M:268:MET:HE3	1.76	0.50
1:Q:280:THR:OG1	1:Q:282:ASP:O	2.29	0.50
1:U:143:GLY:O	1:U:144:THR:OG1	2.25	0.50
1:W:266:ARG:NH2	1:W:360:GLY:O	2.29	0.50
1:Y:228:PHE:HE2	1:Y:230:PHE:HE1	0.79	0.50
1:Y:280:THR:OG1	1:Y:282:ASP:O	2.29	0.50
1:7:280:THR:OG1	1:7:282:ASP:O	2.29	0.50
1:c:280:THR:OG1	1:c:282:ASP:O	2.29	0.50
1:f:280:THR:OG1	1:f:282:ASP:O	2.29	0.50
1:g:280:THR:OG1	1:g:282:ASP:O	2.29	0.50
1:i:241:GLN:HE21	1:i:268:MET:HE3	1.76	0.50
1:i:280:THR:OG1	1:i:282:ASP:O	2.29	0.50
1:j:241:GLN:HE21	1:j:268:MET:HE3	1.76	0.50
1:k:80:MET:SD	1:k:192:THR:OG1	2.61	0.50
1:l:290:GLN:HG2	1:l:291:PHE:N	2.27	0.50
1:o:280:THR:OG1	1:o:282:ASP:O	2.29	0.50
1:q:238:TYR:CZ	1:q:334:VAL:HG12	2.45	0.50
1:q:280:THR:OG1	1:q:282:ASP:O	2.29	0.50
1:s:266:ARG:NH2	1:s:360:GLY:O	2.29	0.50
1:z:133:LEU:N	1:z:213:GLN:HE21	1.97	0.50
1:1:182:SER:OG	1:1:187:ASP:OD2	2.23	0.50
1:1:280:THR:OG1	1:1:282:ASP:O	2.29	0.50
1:A:290:GLN:HG2	1:A:291:PHE:N	2.27	0.50
1:J:290:GLN:HG2	1:J:291:PHE:N	2.27	0.50
1:L:194:SER:N	1:L:197:ASN:O	2.40	0.50
1:L:241:GLN:HE21	1:L:268:MET:HB2	1.76	0.50
1:M:290:GLN:HG2	1:M:291:PHE:N	2.27	0.50
1:O:241:GLN:HE21	1:O:268:MET:HB2	1.76	0.50
1:P:241:GLN:HE21	1:P:268:MET:HB2	1.76	0.50
1:P:241:GLN:HE21	1:P:268:MET:HE3	1.76	0.50
1:S:182:SER:OG	1:S:187:ASP:OD2	2.23	0.50
1:U:182:SER:OG	1:U:187:ASP:OD2	2.23	0.50
1:X:239:VAL:HG11	1:X:268:MET:HE1	1.90	0.50
1:8:280:THR:OG1	1:8:282:ASP:O	2.29	0.50
1:6:280:THR:OG1	1:6:282:ASP:O	2.29	0.50
1:4:143:GLY:O	1:4:144:THR:OG1	2.25	0.50
1:d:133:LEU:N	1:d:213:GLN:HE21	1.97	0.50
1:i:290:GLN:HG2	1:i:291:PHE:N	2.27	0.50
1:k:194:SER:N	1:k:197:ASN:O	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:241:GLN:HE21	1:l:268:MET:HB2	1.76	0.50
1:o:241:GLN:HE21	1:o:268:MET:HE3	1.76	0.50
1:s:290:GLN:HG2	1:s:291:PHE:N	2.27	0.50
1:t:239:VAL:HG11	1:t:268:MET:HE1	1.90	0.50
1:u:290:GLN:HG2	1:u:291:PHE:N	2.27	0.50
1:v:241:GLN:HE21	1:v:268:MET:HE3	1.76	0.50
1:C:280:THR:OG1	1:C:282:ASP:O	2.29	0.50
1:L:280:THR:OG1	1:L:282:ASP:O	2.29	0.50
1:O:133:LEU:N	1:O:213:GLN:HE21	1.97	0.50
1:Q:241:GLN:HE21	1:Q:268:MET:HE3	1.76	0.50
1:R:290:GLN:HG2	1:R:291:PHE:N	2.27	0.50
1:S:241:GLN:HE21	1:S:268:MET:HE3	1.76	0.50
1:T:258:ILE:HG22	1:5:243:ASN:O	2.11	0.50
1:V:194:SER:N	1:V:197:ASN:O	2.40	0.50
1:Z:241:GLN:HE21	1:Z:268:MET:HB2	1.76	0.50
1:Z:280:THR:OG1	1:Z:282:ASP:O	2.29	0.50
1:8:258:ILE:HG22	1:2:243:ASN:O	2.11	0.50
1:3:239:VAL:HG11	1:3:268:MET:HE1	1.90	0.50
1:f:241:GLN:HE21	1:f:268:MET:HB2	1.76	0.50
1:j:280:THR:OG1	1:j:282:ASP:O	2.29	0.50
1:k:151:PHE:HE1	1:s:151:PHE:CE2	2.30	0.50
1:m:241:GLN:HE21	1:m:268:MET:HB2	1.76	0.50
1:s:133:LEU:N	1:s:213:GLN:HE21	1.97	0.50
1:t:143:GLY:O	1:t:144:THR:OG1	2.25	0.50
1:w:243:ASN:O	1:x:258:ILE:HG22	2.11	0.50
1:y:241:GLN:HE21	1:y:268:MET:HB2	1.76	0.50
1:D:241:GLN:HE21	1:D:268:MET:HE3	1.76	0.50
1:E:258:ILE:HG22	1:Q:243:ASN:O	2.12	0.50
1:J:241:GLN:HE21	1:J:268:MET:HE3	1.76	0.50
1:O:243:ASN:O	1:h:258:ILE:HG22	2.11	0.50
1:T:280:THR:OG1	1:T:282:ASP:O	2.29	0.50
1:U:228:PHE:HE2	1:U:230:PHE:HE1	0.79	0.50
1:U:239:VAL:HG11	1:U:268:MET:HE1	1.90	0.50
1:X:241:GLN:HE21	1:X:268:MET:HB2	1.76	0.50
1:Y:241:GLN:HE21	1:Y:268:MET:HE3	1.76	0.50
1:Z:243:ASN:O	1:w:258:ILE:HG22	2.11	0.50
1:3:290:GLN:HG2	1:3:291:PHE:N	2.27	0.50
1:a:194:SER:N	1:a:197:ASN:O	2.40	0.50
1:b:239:VAL:HG11	1:b:268:MET:HE1	1.90	0.50
1:b:241:GLN:HE21	1:b:268:MET:HB2	1.76	0.50
1:b:280:THR:OG1	1:b:282:ASP:O	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:239:VAL:HG11	1:c:268:MET:HE1	1.90	0.50
1:l:194:SER:N	1:l:197:ASN:O	2.40	0.50
1:m:280:THR:OG1	1:m:282:ASP:O	2.29	0.50
1:n:241:GLN:HE21	1:n:268:MET:HE3	1.76	0.50
1:n:258:ILE:HG22	1:o:243:ASN:O	2.12	0.50
1:o:241:GLN:NE2	1:o:268:MET:HE3	2.25	0.50
1:w:280:THR:OG1	1:w:282:ASP:O	2.29	0.50
1:y:241:GLN:HE21	1:y:268:MET:HE3	1.76	0.50
1:1:241:GLN:HE21	1:1:268:MET:HE3	1.76	0.50
1:B:194:SER:N	1:B:197:ASN:O	2.40	0.50
1:C:361:LYS:HD2	1:7:356:ARG:HE	1.75	0.50
1:E:241:GLN:HE21	1:E:268:MET:HE3	1.76	0.50
1:K:241:GLN:HE21	1:K:268:MET:HB2	1.76	0.50
1:O:361:LYS:HD2	1:g:356:ARG:HE	1.77	0.50
1:Q:241:GLN:NE2	1:Q:268:MET:HE3	2.25	0.50
1:V:290:GLN:HG2	1:V:291:PHE:N	2.27	0.50
1:W:290:GLN:HG2	1:W:291:PHE:N	2.27	0.50
1:Y:194:SER:N	1:Y:197:ASN:O	2.40	0.50
1:8:241:GLN:HE21	1:8:268:MET:HE3	1.76	0.50
1:5:258:ILE:HG22	1:f:243:ASN:O	2.11	0.50
1:5:280:THR:OG1	1:5:282:ASP:O	2.29	0.50
1:4:290:GLN:HG2	1:4:291:PHE:N	2.27	0.50
1:b:151:PHE:HE1	1:c:151:PHE:CE2	2.30	0.50
1:c:241:GLN:HE21	1:c:268:MET:HE3	1.76	0.50
1:e:290:GLN:HG2	1:e:291:PHE:N	2.27	0.50
1:g:194:SER:N	1:g:197:ASN:O	2.40	0.50
1:i:133:LEU:N	1:i:213:GLN:HE21	1.97	0.50
1:u:241:GLN:HE21	1:u:268:MET:HE3	1.76	0.50
1:z:241:GLN:HE21	1:z:268:MET:HE3	1.76	0.50
1:2:194:SER:N	1:2:197:ASN:O	2.40	0.50
1:H:133:LEU:N	1:H:213:GLN:HE21	1.97	0.50
1:N:194:SER:N	1:N:197:ASN:O	2.40	0.50
1:N:241:GLN:HE21	1:N:268:MET:HE3	1.76	0.50
1:R:241:GLN:HE21	1:R:268:MET:HE3	1.76	0.50
1:X:151:PHE:HE1	1:Y:151:PHE:CE2	2.30	0.50
1:X:280:THR:OG1	1:X:282:ASP:O	2.29	0.50
1:6:258:ILE:HG22	1:i:243:ASN:O	2.12	0.50
1:6:311:ILE:HB	1:6:314:VAL:HG22	1.94	0.50
1:5:194:SER:N	1:5:197:ASN:O	2.40	0.50
1:a:290:GLN:HG2	1:a:291:PHE:N	2.27	0.50
1:c:241:GLN:HE21	1:c:268:MET:HB2	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:266:ARG:NH2	1:e:360:GLY:O	2.30	0.50
1:f:290:GLN:HG2	1:f:291:PHE:N	2.27	0.50
1:h:241:GLN:HE21	1:h:268:MET:HE3	1.76	0.50
1:l:241:GLN:HE21	1:l:268:MET:HE3	1.76	0.50
1:p:241:GLN:HE21	1:p:268:MET:HB2	1.76	0.50
1:x:228:PHE:HE2	1:x:230:PHE:HE1	0.79	0.50
1:x:280:THR:OG1	1:x:282:ASP:O	2.29	0.50
1:2:280:THR:OG1	1:2:282:ASP:O	2.29	0.50
1:A:133:LEU:N	1:A:213:GLN:HE21	1.97	0.50
1:D:241:GLN:HE21	1:D:268:MET:HB2	1.76	0.50
1:F:241:GLN:HE21	1:F:268:MET:HB2	1.76	0.50
1:H:165:GLN:HE21	1:H:168:SER:HA	1.77	0.50
1:K:194:SER:N	1:K:197:ASN:O	2.40	0.50
1:K:258:ILE:HG22	1:8:243:ASN:O	2.11	0.50
1:K:290:GLN:HG2	1:K:291:PHE:N	2.27	0.50
1:K:356:ARG:HE	1:2:361:LYS:HD2	1.77	0.50
1:L:241:GLN:HE21	1:L:268:MET:HE3	1.76	0.50
1:O:290:GLN:HG2	1:O:291:PHE:N	2.27	0.50
1:Y:241:GLN:HE21	1:Y:268:MET:HB2	1.76	0.50
1:7:311:ILE:HB	1:7:314:VAL:HG22	1.94	0.50
1:5:290:GLN:HG2	1:5:291:PHE:N	2.27	0.50
1:4:151:PHE:HE1	1:b:151:PHE:CE2	2.30	0.50
1:3:131:LEU:HB2	1:3:211:TRP:CH2	2.47	0.50
1:f:311:ILE:HB	1:f:314:VAL:HG22	1.94	0.50
1:g:241:GLN:HE21	1:g:268:MET:HB2	1.76	0.50
1:g:258:ILE:HG22	1:h:243:ASN:O	2.11	0.50
1:g:290:GLN:HG2	1:g:291:PHE:N	2.27	0.50
1:m:165:GLN:HE21	1:m:168:SER:HA	1.77	0.50
1:m:290:GLN:HG2	1:m:291:PHE:N	2.27	0.50
1:t:290:GLN:HG2	1:t:291:PHE:N	2.27	0.50
1:t:311:ILE:HB	1:t:314:VAL:HG22	1.94	0.50
1:w:290:GLN:HG2	1:w:291:PHE:N	2.27	0.50
1:y:280:THR:OG1	1:y:282:ASP:O	2.29	0.50
1:1:290:GLN:HG2	1:1:291:PHE:N	2.27	0.50
1:2:290:GLN:HG2	1:2:291:PHE:N	2.27	0.50
1:B:280:THR:OG1	1:B:282:ASP:O	2.29	0.50
1:B:311:ILE:HB	1:B:314:VAL:HG22	1.94	0.50
1:D:228:PHE:HE2	1:D:230:PHE:HE1	0.79	0.50
1:H:311:ILE:HB	1:H:314:VAL:HG22	1.94	0.50
1:K:250:GLY:HA3	1:K:330:TYR:O	2.12	0.50
1:L:165:GLN:HE21	1:L:168:SER:HA	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:133:LEU:N	1:M:213:GLN:HE21	1.97	0.50
1:N:290:GLN:HG2	1:N:291:PHE:N	2.27	0.50
1:O:280:THR:OG1	1:O:282:ASP:O	2.29	0.50
1:P:280:THR:OG1	1:P:282:ASP:O	2.29	0.50
1:R:243:ASN:O	1:U:258:ILE:HG22	2.12	0.50
1:S:131:LEU:HB2	1:S:211:TRP:CH2	2.47	0.50
1:T:250:GLY:HA3	1:T:330:TYR:O	2.12	0.50
1:Y:239:VAL:HG11	1:Y:268:MET:HE1	1.91	0.50
1:Z:270:GLY:HA2	1:Z:346:PHE:CE1	2.47	0.50
1:Z:290:GLN:HG2	1:Z:291:PHE:N	2.27	0.50
1:5:241:GLN:HE21	1:5:268:MET:HE3	1.76	0.50
1:4:131:LEU:HB2	1:4:211:TRP:CH2	2.47	0.50
1:c:194:SER:N	1:c:197:ASN:O	2.40	0.50
1:d:131:LEU:HB2	1:d:211:TRP:CH2	2.47	0.50
1:d:165:GLN:HE21	1:d:168:SER:HA	1.77	0.50
1:g:131:LEU:HB2	1:g:211:TRP:CH2	2.47	0.50
1:h:290:GLN:HG2	1:h:291:PHE:N	2.27	0.50
1:k:280:THR:OG1	1:k:282:ASP:O	2.29	0.50
1:m:241:GLN:HE21	1:m:268:MET:HE3	1.76	0.50
1:r:309:GLN:NE2	1:r:320:PRO:HG3	2.27	0.50
1:r:361:LYS:HD2	1:s:356:ARG:HE	1.77	0.50
1:t:258:ILE:HG22	1:u:243:ASN:O	2.12	0.50
1:v:131:LEU:HB2	1:v:211:TRP:CH2	2.47	0.50
1:w:241:GLN:HE21	1:w:268:MET:HE3	1.76	0.50
1:z:241:GLN:HE21	1:z:268:MET:HB2	1.76	0.50
1:A:151:PHE:HE1	1:E:151:PHE:CE2	2.30	0.50
1:D:165:GLN:HE21	1:D:168:SER:HA	1.77	0.50
1:D:258:ILE:HG22	1:N:243:ASN:O	2.12	0.50
1:G:241:GLN:HE21	1:G:268:MET:HE3	1.76	0.50
1:G:258:ILE:HG22	1:I:243:ASN:O	2.12	0.50
1:H:131:LEU:HB2	1:H:211:TRP:CH2	2.47	0.50
1:H:250:GLY:HA3	1:H:330:TYR:O	2.12	0.50
1:I:309:GLN:NE2	1:I:320:PRO:HG3	2.27	0.50
1:J:131:LEU:HB2	1:J:211:TRP:CH2	2.47	0.50
1:J:151:PHE:HE1	1:8:151:PHE:CE2	2.30	0.50
1:K:131:LEU:HB2	1:K:211:TRP:CH2	2.47	0.50
1:L:290:GLN:HG2	1:L:291:PHE:N	2.27	0.50
1:M:131:LEU:HB2	1:M:211:TRP:CH2	2.47	0.50
1:N:266:ARG:NH2	1:N:360:GLY:O	2.30	0.50
1:O:131:LEU:HB2	1:O:211:TRP:CH2	2.47	0.50
1:O:194:SER:N	1:O:197:ASN:O	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:194:SER:N	1:P:197:ASN:O	2.40	0.50
1:R:131:LEU:HB2	1:R:211:TRP:CH2	2.47	0.50
1:T:270:GLY:CA	1:T:346:PHE:CD1	2.87	0.50
1:U:290:GLN:HG2	1:U:291:PHE:N	2.27	0.50
1:U:311:ILE:HB	1:U:314:VAL:HG22	1.94	0.50
1:X:165:GLN:HE21	1:X:168:SER:HA	1.77	0.50
1:Z:311:ILE:HB	1:Z:314:VAL:HG22	1.94	0.50
1:8:241:GLN:HE21	1:8:268:MET:HB2	1.76	0.50
1:4:250:GLY:HA3	1:4:330:TYR:O	2.12	0.50
1:3:250:GLY:HA3	1:3:330:TYR:O	2.12	0.50
1:b:131:LEU:HB2	1:b:211:TRP:CH2	2.47	0.50
1:b:165:GLN:HE21	1:b:168:SER:HA	1.77	0.50
1:d:311:ILE:HB	1:d:314:VAL:HG22	1.94	0.50
1:f:270:GLY:HA2	1:f:346:PHE:CE1	2.47	0.50
1:g:250:GLY:HA3	1:g:330:TYR:O	2.12	0.50
1:h:151:PHE:CE2	1:l:151:PHE:HE1	2.30	0.50
1:k:311:ILE:HB	1:k:314:VAL:HG22	1.94	0.50
1:l:131:LEU:HB2	1:l:211:TRP:CH2	2.47	0.50
1:o:151:PHE:CE2	1:y:151:PHE:HE1	2.30	0.50
1:o:361:LYS:HD2	1:p:356:ARG:HE	1.77	0.50
1:x:270:GLY:CA	1:x:346:PHE:CD1	2.87	0.50
1:z:165:GLN:HE21	1:z:168:SER:HA	1.77	0.50
1:1:131:LEU:HB2	1:1:211:TRP:CH2	2.47	0.50
1:2:241:GLN:HE21	1:2:268:MET:HB2	1.76	0.50
1:A:239:VAL:HG11	1:A:268:MET:HE1	1.90	0.49
1:A:241:GLN:HE21	1:A:268:MET:HE3	1.76	0.49
1:A:311:ILE:HB	1:A:314:VAL:HG22	1.94	0.49
1:C:270:GLY:HA2	1:C:346:PHE:CE1	2.47	0.49
1:F:243:ASN:O	1:Q:258:ILE:HG22	2.12	0.49
1:F:280:THR:OG1	1:F:282:ASP:O	2.29	0.49
1:F:309:GLN:NE2	1:F:320:PRO:HG3	2.27	0.49
1:I:165:GLN:HE21	1:I:168:SER:HA	1.77	0.49
1:I:179:PRO:O	1:I:188:TYR:OH	2.25	0.49
1:J:361:LYS:HD2	1:L:356:ARG:HE	1.77	0.49
1:M:210:TYR:CE2	1:7:47:TRP:CZ3	3.00	0.49
1:M:250:GLY:HA3	1:M:330:TYR:O	2.12	0.49
1:N:131:LEU:HB2	1:N:211:TRP:CH2	2.47	0.49
1:O:151:PHE:HE1	1:P:151:PHE:CE2	2.30	0.49
1:O:250:GLY:HA3	1:O:330:TYR:O	2.12	0.49
1:P:151:PHE:HE1	1:Q:151:PHE:CE2	2.30	0.49
1:R:165:GLN:HE21	1:R:168:SER:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:250:GLY:HA3	1:U:330:TYR:O	2.12	0.49
1:Y:250:GLY:HA3	1:Y:330:TYR:O	2.12	0.49
1:8:270:GLY:HA2	1:8:346:PHE:CE1	2.47	0.49
1:8:290:GLN:HG2	1:8:291:PHE:N	2.27	0.49
1:7:241:GLN:HE21	1:7:268:MET:HE3	1.76	0.49
1:c:250:GLY:HA3	1:c:330:TYR:O	2.12	0.49
1:d:250:GLY:HA3	1:d:330:TYR:O	2.12	0.49
1:e:311:ILE:HB	1:e:314:VAL:HG22	1.94	0.49
1:g:311:ILE:HB	1:g:314:VAL:HG22	1.94	0.49
1:i:250:GLY:HA3	1:i:330:TYR:O	2.12	0.49
1:j:270:GLY:HA2	1:j:346:PHE:CE1	2.47	0.49
1:p:280:THR:OG1	1:p:282:ASP:O	2.29	0.49
1:p:309:GLN:NE2	1:p:320:PRO:HG3	2.27	0.49
1:r:165:GLN:HE21	1:r:168:SER:HA	1.77	0.49
1:r:179:PRO:O	1:r:188:TYR:OH	2.25	0.49
1:s:250:GLY:HA3	1:s:330:TYR:O	2.12	0.49
1:s:311:ILE:HB	1:s:314:VAL:HG22	1.94	0.49
1:u:131:LEU:HB2	1:u:211:TRP:CH2	2.47	0.49
1:w:194:SER:N	1:w:197:ASN:O	2.40	0.49
1:w:250:GLY:HA3	1:w:330:TYR:O	2.12	0.49
1:x:250:GLY:HA3	1:x:330:TYR:O	2.12	0.49
1:z:258:ILE:HG22	1:1:243:ASN:O	2.12	0.49
1:2:131:LEU:HB2	1:2:211:TRP:CH2	2.47	0.49
1:A:250:GLY:HA3	1:A:330:TYR:O	2.12	0.49
1:B:131:LEU:HB2	1:B:211:TRP:CH2	2.47	0.49
1:D:239:VAL:HG11	1:D:268:MET:HE1	1.90	0.49
1:D:243:ASN:O	1:P:258:ILE:HG22	2.12	0.49
1:F:151:PHE:CE2	1:R:151:PHE:HE1	2.30	0.49
1:H:309:GLN:NE2	1:H:320:PRO:HG3	2.27	0.49
1:I:151:PHE:HE1	1:J:151:PHE:CE2	2.30	0.49
1:K:311:ILE:HB	1:K:314:VAL:HG22	1.94	0.49
1:P:309:GLN:NE2	1:P:320:PRO:HG3	2.27	0.49
1:Q:151:PHE:HE1	1:S:151:PHE:CE2	2.30	0.49
1:R:309:GLN:NE2	1:R:320:PRO:HG3	2.27	0.49
1:S:151:PHE:HE1	1:5:151:PHE:CE2	2.30	0.49
1:S:258:ILE:HG22	1:U:243:ASN:O	2.12	0.49
1:T:228:PHE:HE2	1:T:230:PHE:HE1	0.79	0.49
1:X:131:LEU:HB2	1:X:211:TRP:CH2	2.47	0.49
1:X:151:PHE:CE2	1:3:151:PHE:HE1	2.30	0.49
1:X:311:ILE:HB	1:X:314:VAL:HG22	1.94	0.49
1:Z:356:ARG:HE	1:w:361:LYS:HD2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:361:LYS:HD2	1:f:356:ARG:HE	1.77	0.49
1:3:243:ASN:O	1:a:258:ILE:HG22	2.12	0.49
1:b:194:SER:N	1:b:197:ASN:O	2.40	0.49
1:c:165:GLN:HE21	1:c:168:SER:HA	1.77	0.49
1:c:243:ASN:O	1:e:258:ILE:HG22	2.12	0.49
1:e:131:LEU:HB2	1:e:211:TRP:CH2	2.47	0.49
1:e:309:GLN:NE2	1:e:320:PRO:HG3	2.27	0.49
1:h:241:GLN:HE21	1:h:268:MET:HB2	1.76	0.49
1:h:270:GLY:HA2	1:h:346:PHE:CE1	2.47	0.49
1:i:131:LEU:HB2	1:i:211:TRP:CH2	2.47	0.49
1:l:151:PHE:CE2	1:r:151:PHE:HE1	2.30	0.49
1:l:309:GLN:NE2	1:l:320:PRO:HG3	2.27	0.49
1:n:151:PHE:CE2	1:s:151:PHE:HE1	2.30	0.49
1:q:241:GLN:HE21	1:q:268:MET:HE3	1.76	0.49
1:q:258:ILE:HG22	1:r:243:ASN:O	2.12	0.49
1:t:250:GLY:HA3	1:t:330:TYR:O	2.12	0.49
1:u:250:GLY:HA3	1:u:330:TYR:O	2.12	0.49
1:u:309:GLN:NE2	1:u:320:PRO:HG3	2.27	0.49
1:v:151:PHE:HE1	1:w:151:PHE:CE2	2.30	0.49
1:v:309:GLN:NE2	1:v:320:PRO:HG3	2.27	0.49
1:w:165:GLN:HE21	1:w:168:SER:HA	1.77	0.49
1:x:309:GLN:NE2	1:x:320:PRO:HG3	2.27	0.49
1:y:151:PHE:CE2	1:2:151:PHE:HE1	2.30	0.49
1:y:194:SER:N	1:y:197:ASN:O	2.40	0.49
1:y:258:ILE:HG22	1:z:243:ASN:O	2.12	0.49
1:z:143:GLY:O	1:z:144:THR:OG1	2.25	0.49
1:1:311:ILE:HB	1:1:314:VAL:HG22	1.94	0.49
1:2:250:GLY:HA3	1:2:330:TYR:O	2.12	0.49
1:A:165:GLN:HE21	1:A:168:SER:HA	1.77	0.49
1:A:356:ARG:HE	1:I:361:LYS:HD2	1.78	0.49
1:C:47:TRP:CZ3	1:7:210:TYR:CE2	3.00	0.49
1:J:309:GLN:NE2	1:J:320:PRO:HG3	2.27	0.49
1:K:151:PHE:HE1	1:L:151:PHE:CE2	2.30	0.49
1:L:311:ILE:HB	1:L:314:VAL:HG22	1.94	0.49
1:M:143:GLY:O	1:M:144:THR:OG1	2.25	0.49
1:N:165:GLN:HE21	1:N:168:SER:HA	1.77	0.49
1:N:311:ILE:HB	1:N:314:VAL:HG22	1.94	0.49
1:P:250:GLY:HA3	1:P:330:TYR:O	2.12	0.49
1:R:250:GLY:HA3	1:R:330:TYR:O	2.12	0.49
1:S:309:GLN:NE2	1:S:320:PRO:HG3	2.27	0.49
1:T:309:GLN:NE2	1:T:320:PRO:HG3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:258:ILE:HG22	1:4:243:ASN:O	2.12	0.49
1:W:131:LEU:HB2	1:W:211:TRP:CH2	2.47	0.49
1:W:258:ILE:HG22	1:Y:243:ASN:O	2.12	0.49
1:W:309:GLN:NE2	1:W:320:PRO:HG3	2.27	0.49
1:Y:133:LEU:N	1:Y:213:GLN:HE21	1.97	0.49
1:Y:165:GLN:HE21	1:Y:168:SER:HA	1.77	0.49
1:Z:241:GLN:HE21	1:Z:268:MET:HE3	1.76	0.49
1:8:165:GLN:HE21	1:8:168:SER:HA	1.77	0.49
1:7:89:ARG:HH11	1:7:180:VAL:HG21	1.78	0.49
1:7:165:GLN:HE21	1:7:168:SER:HA	1.77	0.49
1:7:250:GLY:HA3	1:7:330:TYR:O	2.12	0.49
1:6:165:GLN:HE21	1:6:168:SER:HA	1.77	0.49
1:6:241:GLN:HE21	1:6:268:MET:HE3	1.76	0.49
1:5:131:LEU:HB2	1:5:211:TRP:CH2	2.47	0.49
1:5:165:GLN:HE21	1:5:168:SER:HA	1.77	0.49
1:5:250:GLY:HA3	1:5:330:TYR:O	2.12	0.49
1:4:241:GLN:HE21	1:4:268:MET:HB2	1.76	0.49
1:d:309:GLN:NE2	1:d:320:PRO:HG3	2.27	0.49
1:e:241:GLN:HE21	1:e:268:MET:HE3	1.76	0.49
1:g:133:LEU:N	1:g:213:GLN:HE21	1.97	0.49
1:h:165:GLN:HE21	1:h:168:SER:HA	1.77	0.49
1:h:311:ILE:HB	1:h:314:VAL:HG22	1.94	0.49
1:i:258:ILE:HG22	1:j:243:ASN:O	2.13	0.49
1:i:361:LYS:HD2	1:j:356:ARG:HE	1.77	0.49
1:k:131:LEU:HB2	1:k:211:TRP:CH2	2.47	0.49
1:l:182:SER:OG	1:l:187:ASP:OD2	2.23	0.49
1:l:258:ILE:HG22	1:m:243:ASN:O	2.12	0.49
1:l:361:LYS:HD2	1:m:356:ARG:HE	1.77	0.49
1:m:250:GLY:HA3	1:m:330:TYR:O	2.12	0.49
1:m:311:ILE:HB	1:m:314:VAL:HG22	1.94	0.49
1:o:151:PHE:HE1	1:v:151:PHE:CE2	2.31	0.49
1:p:151:PHE:HE1	1:q:151:PHE:CE2	2.29	0.49
1:p:151:PHE:CE2	1:u:151:PHE:HE1	2.30	0.49
1:q:243:ASN:O	1:s:258:ILE:HG22	2.12	0.49
1:s:165:GLN:HE21	1:s:168:SER:HA	1.77	0.49
1:s:241:GLN:HE21	1:s:268:MET:HE3	1.76	0.49
1:s:309:GLN:NE2	1:s:320:PRO:HG3	2.27	0.49
1:u:165:GLN:HE21	1:u:168:SER:HA	1.77	0.49
1:w:131:LEU:HB2	1:w:211:TRP:CH2	2.47	0.49
1:y:250:GLY:HA3	1:y:330:TYR:O	2.12	0.49
1:y:309:GLN:NE2	1:y:320:PRO:HG3	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:228:PHE:HE2	1:z:230:PHE:HE1	0.79	0.49
1:1:165:GLN:HE21	1:1:168:SER:HA	1.77	0.49
1:A:309:GLN:NE2	1:A:320:PRO:HG3	2.27	0.49
1:B:143:GLY:O	1:B:144:THR:OG1	2.25	0.49
1:B:151:PHE:CE2	1:C:151:PHE:HE1	2.30	0.49
1:C:356:ARG:HE	1:M:361:LYS:HD2	1.77	0.49
1:D:250:GLY:HA3	1:D:330:TYR:O	2.12	0.49
1:G:228:PHE:HE2	1:G:230:PHE:HE1	0.79	0.49
1:G:361:LYS:HD2	1:I:356:ARG:HE	1.78	0.49
1:H:361:LYS:HD2	1:W:356:ARG:HE	1.77	0.49
1:I:239:VAL:HG11	1:I:268:MET:HE1	1.91	0.49
1:J:258:ILE:HG22	1:L:243:ASN:O	2.12	0.49
1:L:250:GLY:HA3	1:L:330:TYR:O	2.12	0.49
1:N:250:GLY:HA3	1:N:330:TYR:O	2.12	0.49
1:O:241:GLN:HE21	1:O:268:MET:HE3	1.76	0.49
1:P:311:ILE:HB	1:P:314:VAL:HG22	1.94	0.49
1:Q:250:GLY:HA3	1:Q:330:TYR:O	2.12	0.49
1:Q:309:GLN:NE2	1:Q:320:PRO:HG3	2.27	0.49
1:V:89:ARG:HH11	1:V:180:VAL:HG21	1.78	0.49
1:W:241:GLN:HE21	1:W:268:MET:HE3	1.76	0.49
1:W:311:ILE:HB	1:W:314:VAL:HG22	1.94	0.49
1:Z:361:LYS:HD2	1:x:356:ARG:HE	1.77	0.49
1:6:89:ARG:HH11	1:6:180:VAL:HG21	1.78	0.49
1:6:151:PHE:CE2	1:m:151:PHE:HE1	2.30	0.49
1:6:243:ASN:O	1:j:258:ILE:HG22	2.12	0.49
1:6:250:GLY:HA3	1:6:330:TYR:O	2.12	0.49
1:5:182:SER:OG	1:5:187:ASP:OD2	2.23	0.49
1:3:241:GLN:HE21	1:3:268:MET:HB2	1.76	0.49
1:a:89:ARG:HH11	1:a:180:VAL:HG21	1.78	0.49
1:a:250:GLY:HA3	1:a:330:TYR:O	2.12	0.49
1:b:311:ILE:HB	1:b:314:VAL:HG22	1.94	0.49
1:c:258:ILE:HG22	1:d:243:ASN:O	2.12	0.49
1:d:258:ILE:HG22	1:e:243:ASN:O	2.12	0.49
1:d:361:LYS:HD2	1:e:356:ARG:HE	1.77	0.49
1:g:151:PHE:HE1	1:m:151:PHE:CE2	2.31	0.49
1:j:151:PHE:HE1	1:k:151:PHE:CE2	2.30	0.49
1:n:131:LEU:HB2	1:n:211:TRP:CH2	2.47	0.49
1:t:243:ASN:O	1:v:258:ILE:HG22	2.12	0.49
1:y:311:ILE:HB	1:y:314:VAL:HG22	1.94	0.49
1:z:309:GLN:NE2	1:z:320:PRO:HG3	2.27	0.49
1:1:250:GLY:HA3	1:1:330:TYR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:266:ARG:NH2	1:1:360:GLY:O	2.30	0.49
1:A:258:ILE:HG22	1:G:243:ASN:O	2.12	0.49
1:C:241:GLN:HB3	1:C:243:ASN:HD21	1.78	0.49
1:C:243:ASN:O	1:M:258:ILE:HG22	2.13	0.49
1:D:309:GLN:NE2	1:D:320:PRO:HG3	2.27	0.49
1:D:356:ARG:HE	1:P:361:LYS:HD2	1.77	0.49
1:E:131:LEU:HB2	1:E:211:TRP:CH2	2.47	0.49
1:E:309:GLN:NE2	1:E:320:PRO:HG3	2.27	0.49
1:H:243:ASN:O	1:Y:258:ILE:HG22	2.12	0.49
1:H:258:ILE:HG22	1:W:243:ASN:O	2.12	0.49
1:I:131:LEU:HB2	1:I:211:TRP:CH2	2.47	0.49
1:J:182:SER:OG	1:J:187:ASP:OD2	2.23	0.49
1:K:151:PHE:CE2	1:1:151:PHE:HE1	2.30	0.49
1:O:309:GLN:NE2	1:O:320:PRO:HG3	2.27	0.49
1:T:131:LEU:HB2	1:T:211:TRP:CH2	2.47	0.49
1:T:290:GLN:HG2	1:T:291:PHE:N	2.27	0.49
1:X:243:ASN:O	1:4:258:ILE:HG22	2.12	0.49
1:Z:131:LEU:HB2	1:Z:211:TRP:CH2	2.47	0.49
1:8:311:ILE:HB	1:8:314:VAL:HG22	1.94	0.49
1:6:131:LEU:HB2	1:6:211:TRP:CH2	2.47	0.49
1:6:309:GLN:NE2	1:6:320:PRO:HG3	2.27	0.49
1:4:241:GLN:HE21	1:4:268:MET:HE3	1.76	0.49
1:3:258:ILE:HG22	1:b:243:ASN:O	2.12	0.49
1:f:89:ARG:HH11	1:f:180:VAL:HG21	1.78	0.49
1:f:241:GLN:HE21	1:f:268:MET:HE3	1.76	0.49
1:g:89:ARG:HH11	1:g:180:VAL:HG21	1.78	0.49
1:i:143:GLY:O	1:i:144:THR:OG1	2.25	0.49
1:i:309:GLN:NE2	1:i:320:PRO:HG3	2.27	0.49
1:k:143:GLY:O	1:k:144:THR:OG1	2.25	0.49
1:k:270:GLY:HA2	1:k:346:PHE:CE1	2.47	0.49
1:n:243:ASN:O	1:p:258:ILE:HG22	2.12	0.49
1:o:250:GLY:HA3	1:o:330:TYR:O	2.12	0.49
1:p:290:GLN:HG2	1:p:291:PHE:N	2.27	0.49
1:q:361:LYS:HD2	1:r:356:ARG:HE	1.78	0.49
1:r:239:VAL:HG11	1:r:268:MET:HE1	1.91	0.49
1:s:239:VAL:HG11	1:s:268:MET:HE1	1.90	0.49
1:t:165:GLN:HE21	1:t:168:SER:HA	1.77	0.49
1:t:309:GLN:NE2	1:t:320:PRO:HG3	2.27	0.49
1:x:165:GLN:HE21	1:x:168:SER:HA	1.77	0.49
1:z:239:VAL:HG11	1:z:268:MET:HE1	1.90	0.49
1:z:250:GLY:HA3	1:z:330:TYR:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:241:GLN:HE21	1:1:268:MET:HB2	1.76	0.49
1:2:309:GLN:NE2	1:2:320:PRO:HG3	2.27	0.49
1:A:179:PRO:O	1:A:188:TYR:OH	2.25	0.49
1:B:165:GLN:HE21	1:B:168:SER:HA	1.77	0.49
1:B:243:ASN:O	1:L:258:ILE:HG22	2.12	0.49
1:B:270:GLY:HA2	1:B:346:PHE:CE1	2.47	0.49
1:F:290:GLN:HG2	1:F:291:PHE:N	2.27	0.49
1:G:131:LEU:HB2	1:G:211:TRP:CH2	2.47	0.49
1:G:309:GLN:NE2	1:G:320:PRO:HG3	2.27	0.49
1:J:165:GLN:HE21	1:J:168:SER:HA	1.77	0.49
1:K:89:ARG:HH11	1:K:180:VAL:HG21	1.78	0.49
1:M:151:PHE:HE1	1:N:151:PHE:CE2	2.30	0.49
1:N:151:PHE:HE1	1:g:151:PHE:CE2	2.30	0.49
1:Q:89:ARG:HH11	1:Q:180:VAL:HG21	1.78	0.49
1:Q:165:GLN:HE21	1:Q:168:SER:HA	1.77	0.49
1:R:143:GLY:O	1:R:144:THR:OG1	2.25	0.49
1:T:89:ARG:HH11	1:T:180:VAL:HG21	1.78	0.49
1:T:165:GLN:HE21	1:T:168:SER:HA	1.77	0.49
1:T:241:GLN:HB3	1:T:243:ASN:HD21	1.78	0.49
1:T:311:ILE:HB	1:T:314:VAL:HG22	1.94	0.49
1:T:356:ARG:HE	1:f:361:LYS:HD2	1.77	0.49
1:U:131:LEU:HB2	1:U:211:TRP:CH2	2.47	0.49
1:U:165:GLN:HE21	1:U:168:SER:HA	1.77	0.49
1:U:309:GLN:NE2	1:U:320:PRO:HG3	2.27	0.49
1:X:194:SER:N	1:X:197:ASN:O	2.40	0.49
1:Z:89:ARG:HH11	1:Z:180:VAL:HG21	1.78	0.49
1:7:131:LEU:HB2	1:7:211:TRP:CH2	2.47	0.49
1:7:309:GLN:NE2	1:7:320:PRO:HG3	2.27	0.49
1:a:241:GLN:HB3	1:a:243:ASN:HD21	1.78	0.49
1:c:89:ARG:HH11	1:c:180:VAL:HG21	1.78	0.49
1:i:151:PHE:HE1	1:1:151:PHE:CE2	2.30	0.49
1:i:241:GLN:HB3	1:i:243:ASN:HD21	1.78	0.49
1:j:131:LEU:HB2	1:j:211:TRP:CH2	2.47	0.49
1:k:258:ILE:HG22	1:l:243:ASN:O	2.13	0.49
1:l:165:GLN:HE21	1:l:168:SER:HA	1.77	0.49
1:n:309:GLN:NE2	1:n:320:PRO:HG3	2.27	0.49
1:o:89:ARG:HH11	1:o:180:VAL:HG21	1.78	0.49
1:o:165:GLN:HE21	1:o:168:SER:HA	1.77	0.49
1:o:258:ILE:HG22	1:p:243:ASN:O	2.13	0.49
1:o:309:GLN:NE2	1:o:320:PRO:HG3	2.27	0.49
1:q:131:LEU:HB2	1:q:211:TRP:CH2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:131:LEU:HB2	1:r:211:TRP:CH2	2.47	0.49
1:t:131:LEU:HB2	1:t:211:TRP:CH2	2.47	0.49
1:t:270:GLY:HA2	1:t:346:PHE:CE1	2.47	0.49
1:x:89:ARG:HH11	1:x:180:VAL:HG21	1.78	0.49
1:x:131:LEU:HB2	1:x:211:TRP:CH2	2.47	0.49
1:x:241:GLN:HB3	1:x:243:ASN:HD21	1.78	0.49
1:x:290:GLN:HG2	1:x:291:PHE:N	2.27	0.49
1:y:89:ARG:HH11	1:y:180:VAL:HG21	1.78	0.49
1:B:258:ILE:HG22	1:J:243:ASN:O	2.13	0.49
1:C:258:ILE:HG22	1:7:243:ASN:O	2.12	0.49
1:C:290:GLN:HG2	1:C:291:PHE:N	2.27	0.49
1:E:133:LEU:N	1:E:213:GLN:HE21	1.97	0.49
1:E:228:PHE:HE2	1:E:230:PHE:HE1	0.79	0.49
1:E:241:GLN:HB3	1:E:243:ASN:HD21	1.78	0.49
1:G:151:PHE:HE1	1:W:151:PHE:CE2	2.31	0.49
1:H:89:ARG:HH11	1:H:180:VAL:HG21	1.78	0.49
1:J:250:GLY:HA3	1:J:330:TYR:O	2.12	0.49
1:K:133:LEU:N	1:K:213:GLN:HE21	1.97	0.49
1:K:270:GLY:HA2	1:K:346:PHE:CE1	2.47	0.49
1:L:131:LEU:HB2	1:L:211:TRP:CH2	2.47	0.49
1:M:165:GLN:HE21	1:M:168:SER:HA	1.77	0.49
1:M:309:GLN:NE2	1:M:320:PRO:HG3	2.27	0.49
1:O:89:ARG:HH11	1:O:180:VAL:HG21	1.78	0.49
1:P:89:ARG:HH11	1:P:180:VAL:HG21	1.78	0.49
1:P:165:GLN:HE21	1:P:168:SER:HA	1.77	0.49
1:P:241:GLN:HB3	1:P:243:ASN:HD21	1.78	0.49
1:Q:241:GLN:HB3	1:Q:243:ASN:HD21	1.78	0.49
1:R:151:PHE:CE2	1:V:151:PHE:HE1	2.30	0.49
1:T:151:PHE:CE2	1:c:151:PHE:HE1	2.30	0.49
1:U:151:PHE:HE1	1:4:151:PHE:CE2	2.30	0.49
1:V:241:GLN:HB3	1:V:243:ASN:HD21	1.78	0.49
1:V:250:GLY:HA3	1:V:330:TYR:O	2.12	0.49
1:W:182:SER:OG	1:W:187:ASP:OD2	2.23	0.49
1:Y:89:ARG:HH11	1:Y:180:VAL:HG21	1.78	0.49
1:Y:131:LEU:HB2	1:Y:211:TRP:CH2	2.47	0.49
1:Z:258:ILE:HG22	1:x:243:ASN:O	2.13	0.49
1:Z:279:ARG:HG3	1:8:71:ASN:HD22	1.78	0.49
1:7:194:SER:N	1:7:197:ASN:O	2.40	0.49
1:6:80:MET:HB3	1:6:201:PRO:HG2	1.95	0.49
1:3:89:ARG:HH11	1:3:180:VAL:HG21	1.78	0.49
1:3:241:GLN:HE21	1:3:268:MET:HE3	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:311:ILE:HB	1:3:314:VAL:HG22	1.94	0.49
1:a:151:PHE:HE1	1:u:151:PHE:CE2	2.30	0.49
1:d:89:ARG:HH11	1:d:180:VAL:HG21	1.78	0.49
1:d:241:GLN:HE21	1:d:268:MET:HB2	1.76	0.49
1:e:151:PHE:CE2	1:q:151:PHE:HE1	2.31	0.49
1:f:131:LEU:HB2	1:f:211:TRP:CH2	2.47	0.49
1:g:270:GLY:HA2	1:g:346:PHE:CE1	2.47	0.49
1:h:131:LEU:HB2	1:h:211:TRP:CH2	2.47	0.49
1:h:279:ARG:HG3	1:l:71:ASN:HD22	1.78	0.49
1:j:241:GLN:HE21	1:j:268:MET:HB2	1.76	0.49
1:j:241:GLN:HB3	1:j:243:ASN:HD21	1.78	0.49
1:k:165:GLN:HE21	1:k:168:SER:HA	1.77	0.49
1:k:243:ASN:O	1:m:258:ILE:HG22	2.12	0.49
1:m:131:LEU:HB2	1:m:211:TRP:CH2	2.47	0.49
1:m:309:GLN:NE2	1:m:320:PRO:HG3	2.27	0.49
1:o:241:GLN:HB3	1:o:243:ASN:HD21	1.78	0.49
1:q:309:GLN:NE2	1:q:320:PRO:HG3	2.27	0.49
1:r:258:ILE:HG22	1:s:243:ASN:O	2.12	0.49
1:w:182:SER:OG	1:w:187:ASP:OD2	2.23	0.49
1:x:311:ILE:HB	1:x:314:VAL:HG22	1.94	0.49
1:y:165:GLN:HE21	1:y:168:SER:HA	1.77	0.49
1:y:241:GLN:HB3	1:y:243:ASN:HD21	1.78	0.49
1:y:361:LYS:HD2	1:z:356:ARG:HE	1.78	0.49
1:z:131:LEU:HB2	1:z:211:TRP:CH2	2.47	0.49
1:2:241:GLN:HE21	1:2:268:MET:HE3	1.76	0.49
1:2:270:GLY:HA2	1:2:346:PHE:CE1	2.47	0.49
1:A:131:LEU:HB2	1:A:211:TRP:CH2	2.47	0.49
1:B:309:GLN:NE2	1:B:320:PRO:HG3	2.27	0.49
1:C:89:ARG:HH11	1:C:180:VAL:HG21	1.78	0.49
1:C:131:LEU:HB2	1:C:211:TRP:CH2	2.47	0.49
1:D:131:LEU:HB2	1:D:211:TRP:CH2	2.47	0.49
1:E:243:ASN:O	1:F:258:ILE:HG22	2.12	0.49
1:E:290:GLN:HG2	1:E:291:PHE:N	2.27	0.49
1:G:80:MET:HB3	1:G:201:PRO:HG2	1.95	0.49
1:H:182:SER:OG	1:H:187:ASP:OD2	2.23	0.49
1:H:241:GLN:HE21	1:H:268:MET:HB2	1.76	0.49
1:M:241:GLN:HB3	1:M:243:ASN:HD21	1.78	0.49
1:N:241:GLN:HE21	1:N:268:MET:HB2	1.76	0.49
1:O:356:ARG:HE	1:h:361:LYS:HD2	1.77	0.49
1:R:241:GLN:HE21	1:R:268:MET:HB2	1.76	0.49
1:R:361:LYS:HD2	1:S:356:ARG:HE	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:361:LYS:HD2	1:U:356:ARG:HE	1.77	0.49
1:T:243:ASN:O	1:f:258:ILE:HG22	2.13	0.49
1:U:270:GLY:HA2	1:U:346:PHE:CE1	2.47	0.49
1:V:311:ILE:HB	1:V:314:VAL:HG22	1.94	0.49
1:W:165:GLN:HE21	1:W:168:SER:HA	1.77	0.49
1:W:250:GLY:HA3	1:W:330:TYR:O	2.12	0.49
1:Y:151:PHE:HE1	1:x:151:PHE:CE2	2.30	0.49
1:Y:290:GLN:HG2	1:Y:291:PHE:N	2.27	0.49
1:8:131:LEU:HB2	1:8:211:TRP:CH2	2.47	0.49
1:8:361:LYS:HD2	1:2:356:ARG:HE	1.77	0.49
1:7:80:MET:HB3	1:7:201:PRO:HG2	1.95	0.49
1:7:323:ASP:O	1:7:327:ILE:N	2.40	0.49
1:6:323:ASP:O	1:6:327:ILE:N	2.40	0.49
1:5:89:ARG:HH11	1:5:180:VAL:HG21	1.78	0.49
1:5:309:GLN:NE2	1:5:320:PRO:HG3	2.27	0.49
1:4:89:ARG:HH11	1:4:180:VAL:HG21	1.78	0.49
1:a:80:MET:HB3	1:a:201:PRO:HG2	1.95	0.49
1:c:133:LEU:N	1:c:213:GLN:HE21	1.97	0.49
1:d:182:SER:OG	1:d:187:ASP:OD2	2.23	0.49
1:e:165:GLN:HE21	1:e:168:SER:HA	1.77	0.49
1:e:250:GLY:HA3	1:e:330:TYR:O	2.12	0.49
1:f:279:ARG:HG3	1:h:71:ASN:HD22	1.78	0.49
1:j:290:GLN:HG2	1:j:291:PHE:N	2.27	0.49
1:k:309:GLN:NE2	1:k:320:PRO:HG3	2.27	0.49
1:l:250:GLY:HA3	1:l:330:TYR:O	2.12	0.49
1:n:241:GLN:HB3	1:n:243:ASN:HD21	1.78	0.49
1:n:290:GLN:HG2	1:n:291:PHE:N	2.27	0.49
1:o:131:LEU:HB2	1:o:211:TRP:CH2	2.47	0.49
1:o:239:VAL:HG11	1:o:268:MET:HE1	1.91	0.49
1:q:80:MET:HB3	1:q:201:PRO:HG2	1.95	0.49
1:q:228:PHE:HE2	1:q:230:PHE:HE1	0.79	0.49
1:r:241:GLN:HB3	1:r:243:ASN:HD21	1.78	0.49
1:s:131:LEU:HB2	1:s:211:TRP:CH2	2.47	0.49
1:t:356:ARG:HE	1:v:361:LYS:HD2	1.77	0.49
1:w:89:ARG:HH11	1:w:180:VAL:HG21	1.78	0.49
1:y:356:ARG:HE	1:1:361:LYS:HD2	1.77	0.49
1:1:309:GLN:NE2	1:1:320:PRO:HG3	2.27	0.49
1:2:89:ARG:HH11	1:2:180:VAL:HG21	1.78	0.49
1:C:250:GLY:HA3	1:C:330:TYR:O	2.12	0.49
1:C:309:GLN:NE2	1:C:320:PRO:HG3	2.27	0.49
1:D:241:GLN:HB3	1:D:243:ASN:HD21	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:361:LYS:HD2	1:N:356:ARG:HE	1.77	0.49
1:E:361:LYS:HD2	1:Q:356:ARG:HE	1.78	0.49
1:F:270:GLY:HA2	1:F:346:PHE:CE1	2.47	0.49
1:F:356:ARG:HE	1:Q:361:LYS:HD2	1.77	0.49
1:G:250:GLY:HA3	1:G:330:TYR:O	2.12	0.49
1:G:290:GLN:HG2	1:G:291:PHE:N	2.27	0.49
1:G:311:ILE:HB	1:G:314:VAL:HG22	1.94	0.49
1:H:151:PHE:HE1	1:I:151:PHE:CE2	2.30	0.49
1:H:290:GLN:HG2	1:H:291:PHE:N	2.27	0.49
1:I:241:GLN:HB3	1:I:243:ASN:HD21	1.78	0.49
1:I:250:GLY:HA3	1:I:330:TYR:O	2.12	0.49
1:J:71:ASN:HD22	1:8:279:ARG:HG3	1.78	0.49
1:J:80:MET:HB3	1:J:201:PRO:HG2	1.95	0.49
1:K:80:MET:HB3	1:K:201:PRO:HG2	1.95	0.49
1:K:165:GLN:HE21	1:K:168:SER:HA	1.77	0.49
1:L:309:GLN:NE2	1:L:320:PRO:HG3	2.27	0.49
1:N:309:GLN:NE2	1:N:320:PRO:HG3	2.27	0.49
1:N:361:LYS:HD2	1:P:356:ARG:HE	1.77	0.49
1:O:270:GLY:HA2	1:O:346:PHE:CE1	2.47	0.49
1:P:71:ASN:HD22	1:Q:279:ARG:HG3	1.78	0.49
1:P:290:GLN:HG2	1:P:291:PHE:N	2.27	0.49
1:Q:311:ILE:HB	1:Q:314:VAL:HG22	1.94	0.49
1:V:80:MET:HB3	1:V:201:PRO:HG2	1.95	0.49
1:Z:182:SER:OG	1:Z:187:ASP:OD2	2.23	0.49
1:8:241:GLN:HB3	1:8:243:ASN:HD21	1.78	0.49
1:7:241:GLN:HB3	1:7:243:ASN:HD21	1.78	0.49
1:6:241:GLN:HB3	1:6:243:ASN:HD21	1.78	0.49
1:a:311:ILE:HB	1:a:314:VAL:HG22	1.94	0.49
1:c:131:LEU:HB2	1:c:211:TRP:CH2	2.47	0.49
1:c:290:GLN:HG2	1:c:291:PHE:N	2.27	0.49
1:e:241:GLN:HB3	1:e:243:ASN:HD21	1.78	0.49
1:f:182:SER:OG	1:f:187:ASP:OD2	2.23	0.49
1:f:323:ASP:O	1:f:327:ILE:N	2.40	0.49
1:g:165:GLN:HE21	1:g:168:SER:HA	1.77	0.49
1:g:361:LYS:HD2	1:h:356:ARG:HE	1.77	0.49
1:i:165:GLN:HE21	1:i:168:SER:HA	1.77	0.49
1:i:270:GLY:HA2	1:i:346:PHE:CE1	2.47	0.49
1:j:133:LEU:N	1:j:213:GLN:HE21	1.97	0.49
1:j:250:GLY:HA3	1:j:330:TYR:O	2.12	0.49
1:n:182:SER:OG	1:n:187:ASP:OD2	2.23	0.49
1:n:228:PHE:HE2	1:n:230:PHE:HE1	0.79	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:250:GLY:HA3	1:n:330:TYR:O	2.12	0.49
1:n:356:ARG:HE	1:p:361:LYS:HD2	1.77	0.49
1:u:361:LYS:HD2	1:v:356:ARG:HE	1.77	0.49
1:v:89:ARG:HH11	1:v:180:VAL:HG21	1.78	0.49
1:v:165:GLN:HE21	1:v:168:SER:HA	1.77	0.49
1:v:228:PHE:HE2	1:v:230:PHE:HE1	0.79	0.49
1:w:309:GLN:NE2	1:w:320:PRO:HG3	2.27	0.49
1:w:311:ILE:HB	1:w:314:VAL:HG22	1.94	0.49
1:z:241:GLN:HB3	1:z:243:ASN:HD21	1.78	0.49
1:A:180:VAL:HG23	1:A:183:MET:HE3	1.95	0.49
1:B:180:VAL:HG23	1:B:183:MET:HE3	1.95	0.49
1:C:278:ILE:HB	1:C:285:PHE:HB3	1.95	0.49
1:D:180:VAL:HG23	1:D:183:MET:HE3	1.95	0.49
1:E:250:GLY:HA3	1:E:330:TYR:O	2.12	0.49
1:G:180:VAL:HG23	1:G:183:MET:HE3	1.95	0.49
1:I:290:GLN:HG2	1:I:291:PHE:N	2.27	0.49
1:J:270:GLY:HA2	1:J:346:PHE:CE1	2.47	0.49
1:K:143:GLY:O	1:K:144:THR:OG1	2.25	0.49
1:K:180:VAL:HG23	1:K:183:MET:HE3	1.95	0.49
1:K:361:LYS:HD2	1:8:356:ARG:HE	1.78	0.49
1:Q:131:LEU:HB2	1:Q:211:TRP:CH2	2.47	0.49
1:Q:239:VAL:HG11	1:Q:268:MET:HE1	1.91	0.49
1:S:89:ARG:HH11	1:S:180:VAL:HG21	1.78	0.49
1:S:290:GLN:HG2	1:S:291:PHE:N	2.27	0.49
1:W:241:GLN:HB3	1:W:243:ASN:HD21	1.78	0.49
1:X:241:GLN:HB3	1:X:243:ASN:HD21	1.78	0.49
1:6:361:LYS:HD2	1:i:356:ARG:HE	1.78	0.49
1:4:165:GLN:HE21	1:4:168:SER:HA	1.77	0.49
1:3:165:GLN:HE21	1:3:168:SER:HA	1.77	0.49
1:b:241:GLN:HB3	1:b:243:ASN:HD21	1.78	0.49
1:c:270:GLY:HA2	1:c:346:PHE:CE1	2.47	0.49
1:d:290:GLN:HG2	1:d:291:PHE:N	2.27	0.49
1:e:182:SER:OG	1:e:187:ASP:OD2	2.23	0.49
1:f:228:PHE:HE2	1:f:230:PHE:HE1	0.79	0.49
1:g:80:MET:HB3	1:g:201:PRO:HG2	1.95	0.49
1:g:180:VAL:HG23	1:g:183:MET:HE3	1.95	0.49
1:h:309:GLN:NE2	1:h:320:PRO:HG3	2.27	0.49
1:j:89:ARG:HH11	1:j:180:VAL:HG21	1.78	0.49
1:j:278:ILE:HB	1:j:285:PHE:HB3	1.95	0.49
1:j:309:GLN:NE2	1:j:320:PRO:HG3	2.27	0.49
1:k:180:VAL:HG23	1:k:183:MET:HE3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:80:MET:HB3	1:l:201:PRO:HG2	1.95	0.49
1:n:165:GLN:HE21	1:n:168:SER:HA	1.77	0.49
1:o:279:ARG:HG3	1:y:71:ASN:HD22	1.78	0.49
1:p:241:GLN:HB3	1:p:243:ASN:HD21	1.78	0.49
1:p:270:GLY:HA2	1:p:346:PHE:CE1	2.47	0.49
1:q:311:ILE:HB	1:q:314:VAL:HG22	1.94	0.49
1:r:290:GLN:HG2	1:r:291:PHE:N	2.27	0.49
1:s:180:VAL:HG23	1:s:183:MET:HE3	1.95	0.49
1:v:290:GLN:HG2	1:v:291:PHE:N	2.27	0.49
1:w:71:ASN:HD22	1:2:279:ARG:HG3	1.78	0.49
1:w:80:MET:HB3	1:w:201:PRO:HG2	1.95	0.49
1:y:243:ASN:O	1:1:258:ILE:HG22	2.12	0.49
1:z:180:VAL:HG23	1:z:183:MET:HE3	1.95	0.49
1:1:278:ILE:HB	1:1:285:PHE:HB3	1.95	0.49
1:A:243:ASN:O	1:I:258:ILE:HG22	2.12	0.48
1:B:250:GLY:HA3	1:B:330:TYR:O	2.12	0.48
1:B:290:GLN:HG2	1:B:291:PHE:N	2.27	0.48
1:C:241:GLN:HE21	1:C:268:MET:HB2	1.76	0.48
1:D:151:PHE:CE2	1:E:151:PHE:HE1	2.31	0.48
1:D:311:ILE:HB	1:D:314:VAL:HG22	1.94	0.48
1:F:151:PHE:HE1	1:G:151:PHE:CE2	2.30	0.48
1:F:241:GLN:HB3	1:F:243:ASN:HD21	1.78	0.48
1:J:180:VAL:HG23	1:J:183:MET:HE3	1.95	0.48
1:M:270:GLY:HA2	1:M:346:PHE:CE1	2.47	0.48
1:N:278:ILE:HB	1:N:285:PHE:HB3	1.95	0.48
1:O:239:VAL:HG11	1:O:268:MET:HE1	1.90	0.48
1:O:279:ARG:HG3	1:5:71:ASN:HD22	1.78	0.48
1:Q:290:GLN:HG2	1:Q:291:PHE:N	2.27	0.48
1:S:165:GLN:HE21	1:S:168:SER:HA	1.77	0.48
1:S:180:VAL:HG23	1:S:183:MET:HE3	1.95	0.48
1:U:89:ARG:HH11	1:U:180:VAL:HG21	1.78	0.48
1:V:131:LEU:HB2	1:V:211:TRP:CH2	2.47	0.48
1:V:309:GLN:NE2	1:V:320:PRO:HG3	2.27	0.48
1:Y:180:VAL:HG23	1:Y:183:MET:HE3	1.95	0.48
1:Y:270:GLY:HA2	1:Y:346:PHE:CE1	2.47	0.48
1:Z:228:PHE:HE2	1:Z:230:PHE:HE1	0.79	0.48
1:Z:250:GLY:HA3	1:Z:330:TYR:O	2.12	0.48
1:8:180:VAL:HG23	1:8:183:MET:HE3	1.95	0.48
1:8:278:ILE:HB	1:8:285:PHE:HB3	1.95	0.48
1:7:290:GLN:HG2	1:7:291:PHE:N	2.27	0.48
1:6:194:SER:N	1:6:197:ASN:O	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:311:ILE:HB	1:5:314:VAL:HG22	1.94	0.48
1:4:311:ILE:HB	1:4:314:VAL:HG22	1.94	0.48
1:3:151:PHE:CE2	1:t:151:PHE:HE1	2.30	0.48
1:3:279:ARG:HG3	1:t:71:ASN:HD22	1.78	0.48
1:a:71:ASN:HD22	1:u:279:ARG:HG3	1.78	0.48
1:d:151:PHE:HE1	1:r:151:PHE:CE2	2.30	0.48
1:h:241:GLN:HB3	1:h:243:ASN:HD21	1.78	0.48
1:h:250:GLY:HA3	1:h:330:TYR:O	2.12	0.48
1:l:180:VAL:HG23	1:l:183:MET:HE3	1.95	0.48
1:l:241:GLN:HB3	1:l:243:ASN:HD21	1.78	0.48
1:l:270:GLY:HA2	1:l:346:PHE:CE1	2.47	0.48
1:l:311:ILE:HB	1:l:314:VAL:HG22	1.94	0.48
1:n:151:PHE:HE1	1:z:151:PHE:CE2	2.31	0.48
1:o:290:GLN:HG2	1:o:291:PHE:N	2.27	0.48
1:o:311:ILE:HB	1:o:314:VAL:HG22	1.94	0.48
1:r:250:GLY:HA3	1:r:330:TYR:O	2.12	0.48
1:r:278:ILE:HB	1:r:285:PHE:HB3	1.95	0.48
1:t:89:ARG:HH11	1:t:180:VAL:HG21	1.78	0.48
1:v:180:VAL:HG23	1:v:183:MET:HE3	1.95	0.48
1:y:290:GLN:HG2	1:y:291:PHE:N	2.27	0.48
1:z:290:GLN:HG2	1:z:291:PHE:N	2.27	0.48
1:z:361:LYS:HD2	1:1:356:ARG:HE	1.77	0.48
1:A:278:ILE:HB	1:A:285:PHE:HB3	1.95	0.48
1:C:165:GLN:HE21	1:C:168:SER:HA	1.77	0.48
1:D:290:GLN:HG2	1:D:291:PHE:N	2.27	0.48
1:E:165:GLN:HE21	1:E:168:SER:HA	1.77	0.48
1:E:182:SER:OG	1:E:187:ASP:OD2	2.23	0.48
1:F:80:MET:HB3	1:F:201:PRO:HG2	1.95	0.48
1:F:143:GLY:O	1:F:144:THR:OG1	2.25	0.48
1:F:250:GLY:HA3	1:F:330:TYR:O	2.12	0.48
1:G:165:GLN:HE21	1:G:168:SER:HA	1.77	0.48
1:H:151:PHE:CE2	1:Z:151:PHE:HE1	2.30	0.48
1:H:356:ARG:HE	1:Y:361:LYS:HD2	1.77	0.48
1:J:89:ARG:HH11	1:J:180:VAL:HG21	1.78	0.48
1:J:311:ILE:HB	1:J:314:VAL:HG22	1.94	0.48
1:L:180:VAL:HG23	1:L:183:MET:HE3	1.95	0.48
1:L:241:GLN:HB3	1:L:243:ASN:HD21	1.78	0.48
1:M:89:ARG:HH11	1:M:180:VAL:HG21	1.78	0.48
1:M:151:PHE:CE2	1:6:151:PHE:HE1	2.30	0.48
1:N:180:VAL:HG23	1:N:183:MET:HE3	1.95	0.48
1:N:258:ILE:HG22	1:P:243:ASN:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:278:ILE:HB	1:O:285:PHE:HB3	1.95	0.48
1:Q:80:MET:HB3	1:Q:201:PRO:HG2	1.95	0.48
1:R:80:MET:HB3	1:R:201:PRO:HG2	1.95	0.48
1:R:279:ARG:HG3	1:V:71:ASN:HD22	1.79	0.48
1:S:311:ILE:HB	1:S:314:VAL:HG22	1.94	0.48
1:V:361:LYS:HD2	1:4:356:ARG:HE	1.78	0.48
1:W:161:ILE:HD12	1:W:209:ARG:HH12	1.79	0.48
1:Z:323:ASP:O	1:Z:327:ILE:N	2.40	0.48
1:5:80:MET:HB3	1:5:201:PRO:HG2	1.95	0.48
1:3:278:ILE:HB	1:3:285:PHE:HB3	1.95	0.48
1:3:356:ARG:HE	1:a:361:LYS:HD2	1.78	0.48
1:a:131:LEU:HB2	1:a:211:TRP:CH2	2.47	0.48
1:c:180:VAL:HG23	1:c:183:MET:HE3	1.95	0.48
1:d:266:ARG:NH2	1:d:360:GLY:O	2.30	0.48
1:f:250:GLY:HA3	1:f:330:TYR:O	2.12	0.48
1:h:180:VAL:HG23	1:h:183:MET:HE3	1.95	0.48
1:l:89:ARG:HH11	1:l:180:VAL:HG21	1.78	0.48
1:n:361:LYS:HD2	1:o:356:ARG:HE	1.78	0.48
1:o:80:MET:HB3	1:o:201:PRO:HG2	1.95	0.48
1:p:80:MET:HB3	1:p:201:PRO:HG2	1.95	0.48
1:p:165:GLN:HE21	1:p:168:SER:HA	1.77	0.48
1:q:180:VAL:HG23	1:q:183:MET:HE3	1.95	0.48
1:q:250:GLY:HA3	1:q:330:TYR:O	2.12	0.48
1:q:290:GLN:HG2	1:q:291:PHE:N	2.27	0.48
1:s:278:ILE:HB	1:s:285:PHE:HB3	1.95	0.48
1:v:80:MET:HB3	1:v:201:PRO:HG2	1.95	0.48
1:v:311:ILE:HB	1:v:314:VAL:HG22	1.94	0.48
1:z:311:ILE:HB	1:z:314:VAL:HG22	1.94	0.48
1:1:80:MET:HB3	1:1:201:PRO:HG2	1.95	0.48
1:1:180:VAL:HG23	1:1:183:MET:HE3	1.95	0.48
1:A:279:ARG:HG3	1:B:71:ASN:HD22	1.78	0.48
1:B:356:ARG:HE	1:L:361:LYS:HD2	1.78	0.48
1:C:133:LEU:N	1:C:213:GLN:HE21	1.97	0.48
1:D:182:SER:OG	1:D:187:ASP:OD2	2.23	0.48
1:E:239:VAL:HG11	1:E:268:MET:HE1	1.90	0.48
1:E:311:ILE:HB	1:E:314:VAL:HG22	1.94	0.48
1:F:239:VAL:HG11	1:F:268:MET:HE1	1.90	0.48
1:I:89:ARG:HH11	1:I:180:VAL:HG21	1.78	0.48
1:I:278:ILE:HB	1:I:285:PHE:HB3	1.95	0.48
1:J:241:GLN:HB3	1:J:243:ASN:HD21	1.78	0.48
1:K:243:ASN:O	1:2:258:ILE:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:309:GLN:NE2	1:K:320:PRO:HG3	2.27	0.48
1:N:80:MET:HB3	1:N:201:PRO:HG2	1.95	0.48
1:Q:270:GLY:CA	1:Q:346:PHE:CD1	2.87	0.48
1:R:89:ARG:HH11	1:R:180:VAL:HG21	1.78	0.48
1:R:258:ILE:HG22	1:S:243:ASN:O	2.12	0.48
1:R:311:ILE:HB	1:R:314:VAL:HG22	1.94	0.48
1:S:80:MET:HB3	1:S:201:PRO:HG2	1.95	0.48
1:T:266:ARG:HD2	1:T:362:MET:SD	2.54	0.48
1:T:278:ILE:HB	1:T:285:PHE:HB3	1.95	0.48
1:U:71:ASN:HD22	1:4:279:ARG:HG3	1.79	0.48
1:U:278:ILE:HB	1:U:285:PHE:HB3	1.95	0.48
1:W:89:ARG:HH11	1:W:180:VAL:HG21	1.78	0.48
1:W:361:LYS:HD2	1:Y:356:ARG:HE	1.77	0.48
1:X:80:MET:HB3	1:X:201:PRO:HG2	1.95	0.48
1:X:309:GLN:NE2	1:X:320:PRO:HG3	2.27	0.48
1:Z:165:GLN:HE21	1:Z:168:SER:HA	1.77	0.48
1:Z:180:VAL:HG23	1:Z:183:MET:HE3	1.95	0.48
1:8:250:GLY:HA3	1:8:330:TYR:O	2.12	0.48
1:8:266:ARG:HD2	1:8:362:MET:SD	2.54	0.48
1:8:309:GLN:NE2	1:8:320:PRO:HG3	2.27	0.48
1:6:290:GLN:HG2	1:6:291:PHE:N	2.27	0.48
1:4:80:MET:HB3	1:4:201:PRO:HG2	1.95	0.48
1:4:278:ILE:HB	1:4:285:PHE:HB3	1.95	0.48
1:4:309:GLN:NE2	1:4:320:PRO:HG3	2.27	0.48
1:3:80:MET:HB3	1:3:201:PRO:HG2	1.95	0.48
1:3:182:SER:OG	1:3:187:ASP:OD2	2.23	0.48
1:3:309:GLN:NE2	1:3:320:PRO:HG3	2.27	0.48
1:a:309:GLN:NE2	1:a:320:PRO:HG3	2.27	0.48
1:d:151:PHE:CE2	1:f:151:PHE:HE1	2.30	0.48
1:e:161:ILE:HD12	1:e:209:ARG:HH12	1.79	0.48
1:f:309:GLN:NE2	1:f:320:PRO:HG3	2.27	0.48
1:g:161:ILE:HD12	1:g:209:ARG:HH12	1.79	0.48
1:g:309:GLN:NE2	1:g:320:PRO:HG3	2.27	0.48
1:h:266:ARG:HD2	1:h:362:MET:SD	2.54	0.48
1:h:278:ILE:HB	1:h:285:PHE:HB3	1.95	0.48
1:i:89:ARG:HH11	1:i:180:VAL:HG21	1.78	0.48
1:j:165:GLN:HE21	1:j:168:SER:HA	1.77	0.48
1:k:250:GLY:HA3	1:k:330:TYR:O	2.12	0.48
1:k:290:GLN:HG2	1:k:291:PHE:N	2.27	0.48
1:k:356:ARG:HE	1:m:361:LYS:HD2	1.78	0.48
1:m:241:GLN:HB3	1:m:243:ASN:HD21	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:133:LEU:N	1:n:213:GLN:HE21	1.97	0.48
1:n:311:ILE:HB	1:n:314:VAL:HG22	1.94	0.48
1:p:250:GLY:HA3	1:p:330:TYR:O	2.12	0.48
1:r:89:ARG:HH11	1:r:180:VAL:HG21	1.78	0.48
1:u:80:MET:HB3	1:u:201:PRO:HG2	1.95	0.48
1:u:89:ARG:HH11	1:u:180:VAL:HG21	1.78	0.48
1:u:241:GLN:HE21	1:u:268:MET:HB2	1.76	0.48
1:w:270:GLY:HA2	1:w:346:PHE:CE1	2.47	0.48
1:x:266:ARG:HD2	1:x:362:MET:SD	2.54	0.48
1:A:71:ASN:HD22	1:E:279:ARG:HG3	1.78	0.48
1:A:266:ARG:HD2	1:A:362:MET:SD	2.54	0.48
1:B:278:ILE:HB	1:B:285:PHE:HB3	1.95	0.48
1:B:361:LYS:HD2	1:J:356:ARG:HE	1.77	0.48
1:C:151:PHE:CE2	1:D:151:PHE:HE1	2.31	0.48
1:C:311:ILE:HB	1:C:314:VAL:HG22	1.94	0.48
1:E:356:ARG:HE	1:F:361:LYS:HD2	1.77	0.48
1:F:131:LEU:HB2	1:F:211:TRP:CH2	2.47	0.48
1:F:311:ILE:HB	1:F:314:VAL:HG22	1.94	0.48
1:G:194:SER:N	1:G:197:ASN:O	2.40	0.48
1:H:278:ILE:HB	1:H:285:PHE:HB3	1.95	0.48
1:I:311:ILE:HB	1:I:314:VAL:HG22	1.94	0.48
1:K:161:ILE:HD12	1:K:209:ARG:HH12	1.79	0.48
1:M:311:ILE:HB	1:M:314:VAL:HG22	1.94	0.48
1:M:356:ARG:HE	1:7:361:LYS:HD2	1.79	0.48
1:N:241:GLN:HB3	1:N:243:ASN:HD21	1.78	0.48
1:O:165:GLN:HE21	1:O:168:SER:HA	1.77	0.48
1:P:180:VAL:HG23	1:P:183:MET:HE3	1.95	0.48
1:Q:266:ARG:HD2	1:Q:362:MET:SD	2.54	0.48
1:U:241:GLN:HB3	1:U:243:ASN:HD21	1.78	0.48
1:W:270:GLY:HA2	1:W:346:PHE:CE1	2.47	0.48
1:Z:80:MET:HB3	1:Z:201:PRO:HG2	1.95	0.48
1:Z:309:GLN:NE2	1:Z:320:PRO:HG3	2.27	0.48
1:7:266:ARG:HD2	1:7:362:MET:SD	2.54	0.48
1:5:270:GLY:HA2	1:5:346:PHE:CE1	2.47	0.48
1:4:182:SER:OG	1:4:187:ASP:OD2	2.23	0.48
1:a:180:VAL:HG23	1:a:183:MET:HE3	1.95	0.48
1:a:243:ASN:O	1:b:258:ILE:HG22	2.13	0.48
1:b:80:MET:HB3	1:b:201:PRO:HG2	1.95	0.48
1:b:309:GLN:NE2	1:b:320:PRO:HG3	2.27	0.48
1:c:80:MET:HB3	1:c:201:PRO:HG2	1.95	0.48
1:c:356:ARG:HE	1:e:361:LYS:HD2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:361:LYS:HD2	1:d:356:ARG:HE	1.77	0.48
1:e:89:ARG:HH11	1:e:180:VAL:HG21	1.78	0.48
1:f:151:PHE:CE2	1:h:151:PHE:HE1	2.32	0.48
1:f:180:VAL:HG23	1:f:183:MET:HE3	1.95	0.48
1:g:143:GLY:O	1:g:144:THR:OG1	2.25	0.48
1:i:311:ILE:HB	1:i:314:VAL:HG22	1.94	0.48
1:j:151:PHE:CE2	1:z:151:PHE:HE1	2.31	0.48
1:j:279:ARG:HG3	1:z:71:ASN:HD22	1.79	0.48
1:j:311:ILE:HB	1:j:314:VAL:HG22	1.94	0.48
1:k:278:ILE:HB	1:k:285:PHE:HB3	1.95	0.48
1:l:279:ARG:HG3	1:r:71:ASN:HD22	1.78	0.48
1:m:180:VAL:HG23	1:m:183:MET:HE3	1.95	0.48
1:o:266:ARG:HD2	1:o:362:MET:SD	2.54	0.48
1:o:270:GLY:CA	1:o:346:PHE:CD1	2.87	0.48
1:p:311:ILE:HB	1:p:314:VAL:HG22	1.94	0.48
1:q:161:ILE:HD12	1:q:209:ARG:HH12	1.79	0.48
1:q:165:GLN:HE21	1:q:168:SER:HA	1.77	0.48
1:q:182:SER:OG	1:q:187:ASP:OD2	2.23	0.48
1:s:266:ARG:HD2	1:s:362:MET:SD	2.54	0.48
1:t:278:ILE:HB	1:t:285:PHE:HB3	1.96	0.48
1:t:279:ARG:HG3	1:x:71:ASN:HD22	1.78	0.48
1:u:258:ILE:HG22	1:v:243:ASN:O	2.13	0.48
1:u:311:ILE:HB	1:u:314:VAL:HG22	1.94	0.48
1:x:278:ILE:HB	1:x:285:PHE:HB3	1.96	0.48
1:y:180:VAL:HG23	1:y:183:MET:HE3	1.95	0.48
1:A:241:GLN:HB3	1:A:243:ASN:HD21	1.78	0.48
1:E:278:ILE:HB	1:E:285:PHE:HB3	1.95	0.48
1:F:165:GLN:HE21	1:F:168:SER:HA	1.77	0.48
1:G:182:SER:OG	1:G:187:ASP:OD2	2.23	0.48
1:H:71:ASN:HD22	1:I:279:ARG:HG3	1.78	0.48
1:J:143:GLY:O	1:J:144:THR:OG1	2.25	0.48
1:M:266:ARG:HD2	1:M:362:MET:SD	2.54	0.48
1:O:258:ILE:HG22	1:g:243:ASN:O	2.13	0.48
1:O:311:ILE:HB	1:O:314:VAL:HG22	1.94	0.48
1:P:131:LEU:HB2	1:P:211:TRP:CH2	2.47	0.48
1:Q:161:ILE:HD12	1:Q:209:ARG:HH12	1.79	0.48
1:T:71:ASN:HD22	1:U:279:ARG:HG3	1.78	0.48
1:V:169:LYS:CD	1:V:343:ASN:HD22	2.25	0.48
1:V:180:VAL:HG23	1:V:183:MET:HE3	1.95	0.48
1:V:243:ASN:O	1:X:258:ILE:HG22	2.13	0.48
1:Y:80:MET:HB3	1:Y:201:PRO:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:309:GLN:NE2	1:Y:320:PRO:HG3	2.27	0.48
1:6:266:ARG:HD2	1:6:362:MET:SD	2.54	0.48
1:4:71:ASN:HD22	1:b:279:ARG:HG3	1.78	0.48
1:b:250:GLY:HA3	1:b:330:TYR:O	2.12	0.48
1:d:278:ILE:HB	1:d:285:PHE:HB3	1.95	0.48
1:e:241:GLN:HE21	1:e:268:MET:HB2	1.76	0.48
1:e:266:ARG:HD2	1:e:362:MET:SD	2.54	0.48
1:e:270:GLY:HA2	1:e:346:PHE:CE1	2.47	0.48
1:f:165:GLN:HE21	1:f:168:SER:HA	1.77	0.48
1:k:71:ASN:HD22	1:s:279:ARG:HG3	1.78	0.48
1:l:143:GLY:O	1:l:144:THR:OG1	2.25	0.48
1:l:199:ILE:HG21	1:l:204:ILE:HD13	1.96	0.48
1:n:80:MET:HB3	1:n:201:PRO:HG2	1.95	0.48
1:n:278:ILE:HB	1:n:285:PHE:HB3	1.95	0.48
1:n:279:ARG:HG3	1:s:71:ASN:HD22	1.79	0.48
1:o:241:GLN:HE21	1:o:268:MET:HB2	1.76	0.48
1:p:131:LEU:HB2	1:p:211:TRP:CH2	2.47	0.48
1:p:143:GLY:O	1:p:144:THR:OG1	2.25	0.48
1:q:89:ARG:HH11	1:q:180:VAL:HG21	1.78	0.48
1:q:194:SER:N	1:q:197:ASN:O	2.40	0.48
1:r:311:ILE:HB	1:r:314:VAL:HG22	1.94	0.48
1:v:250:GLY:HA3	1:v:330:TYR:O	2.12	0.48
1:z:182:SER:OG	1:z:187:ASP:OD2	2.23	0.48
1:1:241:GLN:HB3	1:1:243:ASN:HD21	1.78	0.48
1:2:165:GLN:HE21	1:2:168:SER:HA	1.77	0.48
1:2:278:ILE:HB	1:2:285:PHE:HB3	1.96	0.48
1:2:311:ILE:HB	1:2:314:VAL:HG22	1.94	0.48
1:C:266:ARG:HD2	1:C:362:MET:SD	2.54	0.48
1:C:270:GLY:CA	1:C:346:PHE:CD1	2.87	0.48
1:E:80:MET:HB3	1:E:201:PRO:HG2	1.95	0.48
1:E:120:ARG:HD3	1:E:228:PHE:O	2.14	0.48
1:F:180:VAL:HG23	1:F:183:MET:HE3	1.95	0.48
1:G:71:ASN:HD22	1:W:279:ARG:HG3	1.78	0.48
1:G:161:ILE:HD12	1:G:209:ARG:HH12	1.79	0.48
1:G:270:GLY:HA2	1:G:346:PHE:CE1	2.47	0.48
1:H:120:ARG:HD3	1:H:228:PHE:O	2.14	0.48
1:I:71:ASN:HD22	1:J:279:ARG:HG3	1.78	0.48
1:J:199:ILE:HG21	1:J:204:ILE:HD13	1.96	0.48
1:J:266:ARG:HD2	1:J:362:MET:SD	2.54	0.48
1:N:266:ARG:HD2	1:N:362:MET:SD	2.54	0.48
1:Q:241:GLN:HE21	1:Q:268:MET:HB2	1.76	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:182:SER:OG	1:R:187:ASP:OD2	2.23	0.48
1:W:241:GLN:HE21	1:W:268:MET:HB2	1.76	0.48
1:W:266:ARG:HD2	1:W:362:MET:SD	2.54	0.48
1:X:250:GLY:HA3	1:X:330:TYR:O	2.12	0.48
1:Z:151:PHE:CE2	1:8:151:PHE:HE1	2.32	0.48
1:6:279:ARG:HG3	1:m:71:ASN:HD22	1.78	0.48
1:5:241:GLN:HE21	1:5:268:MET:HB2	1.76	0.48
1:4:266:ARG:NH2	1:4:360:GLY:O	2.29	0.48
1:c:309:GLN:NE2	1:c:320:PRO:HG3	2.27	0.48
1:d:71:ASN:HD22	1:r:279:ARG:HG3	1.78	0.48
1:d:120:ARG:HD3	1:d:228:PHE:O	2.14	0.48
1:d:228:PHE:HE2	1:d:230:PHE:HE1	0.79	0.48
1:e:279:ARG:HG3	1:q:71:ASN:HD22	1.78	0.48
1:f:80:MET:HB3	1:f:201:PRO:HG2	1.95	0.48
1:j:266:ARG:HD2	1:j:362:MET:SD	2.54	0.48
1:k:241:GLN:HB3	1:k:243:ASN:HD21	1.78	0.48
1:k:361:LYS:HD2	1:l:356:ARG:HE	1.77	0.48
1:m:266:ARG:HD2	1:m:362:MET:SD	2.54	0.48
1:n:71:ASN:HD22	1:z:279:ARG:HG3	1.78	0.48
1:n:120:ARG:HD3	1:n:228:PHE:O	2.14	0.48
1:o:161:ILE:HD12	1:o:209:ARG:HH12	1.79	0.48
1:p:239:VAL:HG11	1:p:268:MET:HE1	1.90	0.48
1:s:241:GLN:HB3	1:s:243:ASN:HD21	1.78	0.48
1:t:241:GLN:HB3	1:t:243:ASN:HD21	1.78	0.48
1:u:266:ARG:HD2	1:u:362:MET:SD	2.54	0.48
1:w:179:PRO:O	1:w:188:TYR:OH	2.25	0.48
1:1:266:ARG:HD2	1:1:362:MET:SD	2.54	0.48
1:B:161:ILE:HD12	1:B:209:ARG:HH12	1.79	0.48
1:B:241:GLN:HB3	1:B:243:ASN:HD21	1.78	0.48
1:C:180:VAL:HG23	1:C:183:MET:HE3	1.95	0.48
1:C:279:ARG:HG3	1:D:71:ASN:HD22	1.79	0.48
1:D:86:ASN:O	1:D:239:VAL:HG12	2.14	0.48
1:D:279:ARG:HG3	1:E:71:ASN:HD22	1.78	0.48
1:G:89:ARG:HH11	1:G:180:VAL:HG21	1.78	0.48
1:I:80:MET:HB3	1:I:201:PRO:HG2	1.95	0.48
1:K:71:ASN:HD22	1:L:279:ARG:HG3	1.78	0.48
1:L:266:ARG:HD2	1:L:362:MET:SD	2.54	0.48
1:N:120:ARG:HD3	1:N:228:PHE:O	2.14	0.48
1:R:356:ARG:HE	1:U:361:LYS:HD2	1.78	0.48
1:S:250:GLY:HA3	1:S:330:TYR:O	2.12	0.48
1:T:323:ASP:O	1:T:327:ILE:N	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:180:VAL:HG23	1:U:183:MET:HE3	1.95	0.48
1:X:120:ARG:HD3	1:X:228:PHE:O	2.14	0.48
1:X:290:GLN:HG2	1:X:291:PHE:N	2.27	0.48
1:7:161:ILE:HD12	1:7:209:ARG:HH12	1.79	0.48
1:b:290:GLN:HG2	1:b:291:PHE:N	2.27	0.48
1:f:120:ARG:HD3	1:f:228:PHE:O	2.14	0.48
1:h:89:ARG:HH11	1:h:180:VAL:HG21	1.78	0.48
1:i:161:ILE:HD12	1:i:209:ARG:HH12	1.79	0.48
1:i:266:ARG:HD2	1:i:362:MET:SD	2.54	0.48
1:j:180:VAL:HG23	1:j:183:MET:HE3	1.95	0.48
1:l:266:ARG:HD2	1:l:362:MET:SD	2.54	0.48
1:n:89:ARG:HH11	1:n:180:VAL:HG21	1.78	0.48
1:n:239:VAL:HG11	1:n:268:MET:HE1	1.90	0.48
1:n:266:ARG:HD2	1:n:362:MET:SD	2.54	0.48
1:o:71:ASN:HD22	1:v:279:ARG:HG3	1.78	0.48
1:q:86:ASN:O	1:q:239:VAL:HG12	2.14	0.48
1:q:270:GLY:HA2	1:q:346:PHE:CE1	2.47	0.48
1:t:180:VAL:HG23	1:t:183:MET:HE3	1.95	0.48
1:t:361:LYS:HD2	1:u:356:ARG:HE	1.78	0.48
1:v:266:ARG:HD2	1:v:362:MET:SD	2.54	0.48
1:w:241:GLN:HE21	1:w:268:MET:HB2	1.76	0.48
1:x:323:ASP:O	1:x:327:ILE:N	2.40	0.48
1:y:131:LEU:HB2	1:y:211:TRP:CH2	2.47	0.48
1:z:86:ASN:O	1:z:239:VAL:HG12	2.14	0.48
1:z:120:ARG:HD3	1:z:228:PHE:O	2.14	0.48
1:1:89:ARG:HH11	1:1:180:VAL:HG21	1.78	0.48
1:1:120:ARG:HD3	1:1:228:PHE:O	2.14	0.48
1:2:199:ILE:HG21	1:2:204:ILE:HD13	1.96	0.48
1:2:239:VAL:HG11	1:2:268:MET:HE1	1.90	0.48
1:D:120:ARG:HD3	1:D:228:PHE:O	2.14	0.48
1:D:278:ILE:HB	1:D:285:PHE:HB3	1.95	0.48
1:E:89:ARG:HH11	1:E:180:VAL:HG21	1.78	0.48
1:E:266:ARG:HD2	1:E:362:MET:SD	2.54	0.48
1:F:279:ARG:HG3	1:R:71:ASN:HD22	1.78	0.48
1:G:86:ASN:O	1:G:239:VAL:HG12	2.14	0.48
1:H:161:ILE:HD12	1:H:209:ARG:HH12	1.79	0.48
1:H:199:ILE:HG21	1:H:204:ILE:HD13	1.96	0.48
1:H:228:PHE:HE2	1:H:230:PHE:HE1	0.79	0.48
1:J:278:ILE:HB	1:J:285:PHE:HB3	1.95	0.48
1:K:279:ARG:HG3	1:1:71:ASN:HD22	1.79	0.48
1:L:130:ASN:OD1	1:7:210:TYR:HD2	1.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:143:GLY:O	1:L:144:THR:OG1	2.25	0.48
1:L:278:ILE:HB	1:L:285:PHE:HB3	1.95	0.48
1:M:161:ILE:HD12	1:M:209:ARG:HH12	1.79	0.48
1:N:89:ARG:HH11	1:N:180:VAL:HG21	1.78	0.48
1:O:199:ILE:HG21	1:O:204:ILE:HD13	1.96	0.48
1:O:266:ARG:HD2	1:O:362:MET:SD	2.54	0.48
1:P:169:LYS:CD	1:P:343:ASN:HD22	2.25	0.48
1:Q:71:ASN:HD22	1:S:279:ARG:HG3	1.78	0.48
1:R:266:ARG:HD2	1:R:362:MET:SD	2.54	0.48
1:S:86:ASN:O	1:S:239:VAL:HG12	2.14	0.48
1:S:266:ARG:HD2	1:S:362:MET:SD	2.54	0.48
1:S:278:ILE:HB	1:S:285:PHE:HB3	1.95	0.48
1:T:361:LYS:HD2	1:5:356:ARG:HE	1.78	0.48
1:V:151:PHE:CE2	1:W:151:PHE:HE1	2.31	0.48
1:W:180:VAL:HG23	1:W:183:MET:HE3	1.95	0.48
1:Z:120:ARG:HD3	1:Z:228:PHE:O	2.14	0.48
1:8:86:ASN:O	1:8:239:VAL:HG12	2.14	0.48
1:8:89:ARG:HH11	1:8:180:VAL:HG21	1.78	0.48
1:6:199:ILE:HG21	1:6:204:ILE:HD13	1.96	0.48
1:5:266:ARG:HD2	1:5:362:MET:SD	2.54	0.48
1:3:180:VAL:HG23	1:3:183:MET:HE3	1.95	0.48
1:a:84:PRO:O	1:a:87:VAL:HG12	2.14	0.48
1:b:120:ARG:HD3	1:b:228:PHE:O	2.14	0.48
1:d:199:ILE:HG21	1:d:204:ILE:HD13	1.96	0.48
1:e:180:VAL:HG23	1:e:183:MET:HE3	1.95	0.48
1:f:278:ILE:HB	1:f:285:PHE:HB3	1.95	0.48
1:k:161:ILE:HD12	1:k:209:ARG:HH12	1.79	0.48
1:m:80:MET:HB3	1:m:201:PRO:HG2	1.95	0.48
1:o:278:ILE:HB	1:o:285:PHE:HB3	1.95	0.48
1:p:161:ILE:HD12	1:p:209:ARG:HH12	1.79	0.48
1:p:180:VAL:HG23	1:p:183:MET:HE3	1.95	0.48
1:r:80:MET:HB3	1:r:201:PRO:HG2	1.95	0.48
1:s:194:SER:N	1:s:197:ASN:O	2.40	0.48
1:t:151:PHE:CE2	1:x:151:PHE:HE1	2.31	0.48
1:v:86:ASN:O	1:v:239:VAL:HG12	2.14	0.48
1:v:241:GLN:HE21	1:v:268:MET:HB2	1.76	0.48
1:v:278:ILE:HB	1:v:285:PHE:HB3	1.95	0.48
1:w:278:ILE:HB	1:w:285:PHE:HB3	1.95	0.48
1:w:356:ARG:HE	1:x:361:LYS:HD2	1.78	0.48
1:z:278:ILE:HB	1:z:285:PHE:HB3	1.95	0.48
1:A:86:ASN:O	1:A:239:VAL:HG12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:194:SER:N	1:A:197:ASN:O	2.40	0.48
1:F:84:PRO:O	1:F:87:VAL:HG12	2.14	0.48
1:I:199:ILE:HG21	1:I:204:ILE:HD13	1.96	0.48
1:L:80:MET:HB3	1:L:201:PRO:HG2	1.95	0.48
1:L:89:ARG:HH11	1:L:180:VAL:HG21	1.78	0.48
1:M:86:ASN:O	1:M:239:VAL:HG12	2.14	0.48
1:T:120:ARG:HD3	1:T:228:PHE:O	2.14	0.48
1:T:151:PHE:HE1	1:U:151:PHE:CE2	2.31	0.48
1:U:266:ARG:NH2	1:U:360:GLY:O	2.30	0.48
1:U:266:ARG:HD2	1:U:362:MET:SD	2.54	0.48
1:V:86:ASN:O	1:V:239:VAL:HG12	2.14	0.48
1:V:165:GLN:HE21	1:V:168:SER:HA	1.77	0.48
1:W:86:ASN:O	1:W:239:VAL:HG12	2.14	0.48
1:X:86:ASN:O	1:X:239:VAL:HG12	2.14	0.48
1:X:161:ILE:HD12	1:X:209:ARG:HH12	1.79	0.48
1:X:279:ARG:HG3	1:3:71:ASN:HD22	1.79	0.48
1:8:161:ILE:HD12	1:8:209:ARG:HH12	1.79	0.48
1:5:228:PHE:HE2	1:5:230:PHE:HE1	0.79	0.48
1:5:278:ILE:HB	1:5:285:PHE:HB3	1.95	0.48
1:4:180:VAL:HG23	1:4:183:MET:HE3	1.95	0.48
1:a:151:PHE:CE2	1:e:151:PHE:HE1	2.31	0.48
1:a:165:GLN:HE21	1:a:168:SER:HA	1.77	0.48
1:c:161:ILE:HD12	1:c:209:ARG:HH12	1.79	0.48
1:c:266:ARG:HD2	1:c:362:MET:SD	2.54	0.48
1:d:161:ILE:HD12	1:d:209:ARG:HH12	1.79	0.48
1:d:323:ASP:O	1:d:327:ILE:N	2.40	0.48
1:e:86:ASN:O	1:e:239:VAL:HG12	2.14	0.48
1:h:161:ILE:HD12	1:h:209:ARG:HH12	1.79	0.48
1:i:86:ASN:O	1:i:239:VAL:HG12	2.14	0.48
1:l:120:ARG:HD3	1:l:228:PHE:O	2.14	0.48
1:l:278:ILE:HB	1:l:285:PHE:HB3	1.95	0.48
1:p:84:PRO:O	1:p:87:VAL:HG12	2.14	0.48
1:q:266:ARG:HD2	1:q:362:MET:SD	2.54	0.48
1:r:199:ILE:HG21	1:r:204:ILE:HD13	1.96	0.48
1:s:86:ASN:O	1:s:239:VAL:HG12	2.14	0.48
1:v:71:ASN:HD22	1:w:279:ARG:HG3	1.78	0.48
1:w:266:ARG:HD2	1:w:362:MET:SD	2.54	0.48
1:y:161:ILE:HD12	1:y:209:ARG:HH12	1.79	0.48
1:2:266:ARG:HD2	1:2:362:MET:SD	2.54	0.48
1:D:84:PRO:O	1:D:87:VAL:HG12	2.14	0.48
1:D:270:GLY:HA2	1:D:346:PHE:CE1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:180:VAL:HG23	1:E:183:MET:HE3	1.95	0.48
1:F:161:ILE:HD12	1:F:209:ARG:HH12	1.79	0.48
1:G:266:ARG:HD2	1:G:362:MET:SD	2.54	0.48
1:H:94:TYR:O	1:H:105:VAL:HG11	2.14	0.48
1:I:170:VAL:HG12	1:I:178:TRP:HH2	1.79	0.48
1:L:120:ARG:HD3	1:L:228:PHE:O	2.14	0.48
1:L:199:ILE:HG21	1:L:204:ILE:HD13	1.96	0.48
1:N:71:ASN:HD22	1:g:279:ARG:HG3	1.79	0.48
1:N:84:PRO:O	1:N:87:VAL:HG12	2.14	0.48
1:N:199:ILE:HG21	1:N:204:ILE:HD13	1.96	0.48
1:O:80:MET:HB3	1:O:201:PRO:HG2	1.95	0.48
1:P:161:ILE:HD12	1:P:209:ARG:HH12	1.79	0.48
1:Q:278:ILE:HB	1:Q:285:PHE:HB3	1.95	0.48
1:R:239:VAL:HG11	1:R:268:MET:HE1	1.90	0.48
1:S:71:ASN:HD22	1:5:279:ARG:HG3	1.78	0.48
1:S:241:GLN:HE21	1:S:268:MET:HB2	1.76	0.48
1:U:80:MET:HB3	1:U:201:PRO:HG2	1.95	0.48
1:V:84:PRO:O	1:V:87:VAL:HG12	2.14	0.48
1:W:80:MET:HB3	1:W:201:PRO:HG2	1.95	0.48
1:X:84:PRO:O	1:X:87:VAL:HG12	2.14	0.48
1:X:180:VAL:HG23	1:X:183:MET:HE3	1.95	0.48
1:Y:161:ILE:HD12	1:Y:209:ARG:HH12	1.79	0.48
1:Y:266:ARG:HD2	1:Y:362:MET:SD	2.54	0.48
1:Y:311:ILE:HB	1:Y:314:VAL:HG22	1.94	0.48
1:Z:278:ILE:HB	1:Z:285:PHE:HB3	1.96	0.48
1:6:161:ILE:HD12	1:6:209:ARG:HH12	1.79	0.48
1:5:170:VAL:HG12	1:5:178:TRP:HH2	1.79	0.48
1:5:179:PRO:O	1:5:188:TYR:OH	2.25	0.48
1:a:86:ASN:O	1:a:239:VAL:HG12	2.14	0.48
1:a:278:ILE:HB	1:a:285:PHE:HB3	1.95	0.48
1:b:84:PRO:O	1:b:87:VAL:HG12	2.14	0.48
1:b:86:ASN:O	1:b:239:VAL:HG12	2.14	0.48
1:b:199:ILE:HG21	1:b:204:ILE:HD13	1.96	0.48
1:d:184:ARG:NH1	1:d:295:THR:OG1	2.40	0.48
1:e:80:MET:HB3	1:e:201:PRO:HG2	1.95	0.48
1:f:133:LEU:N	1:f:213:GLN:HE21	1.97	0.48
1:f:194:SER:N	1:f:197:ASN:O	2.40	0.48
1:g:71:ASN:HD22	1:m:279:ARG:HG3	1.79	0.48
1:m:120:ARG:HD3	1:m:228:PHE:O	2.14	0.48
1:m:199:ILE:HG21	1:m:204:ILE:HD13	1.96	0.48
1:m:278:ILE:HB	1:m:285:PHE:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:170:VAL:HG12	1:n:178:TRP:HH2	1.79	0.48
1:o:184:ARG:NH1	1:o:295:THR:OG1	2.40	0.48
1:o:199:ILE:HG21	1:o:204:ILE:HD13	1.96	0.48
1:r:170:VAL:HG12	1:r:178:TRP:HH2	1.79	0.48
1:t:199:ILE:HG21	1:t:204:ILE:HD13	1.96	0.48
1:t:266:ARG:NH2	1:t:360:GLY:O	2.29	0.48
1:t:266:ARG:HD2	1:t:362:MET:SD	2.54	0.48
1:u:182:SER:OG	1:u:187:ASP:OD2	2.23	0.48
1:w:170:VAL:HG12	1:w:178:TRP:HH2	1.79	0.48
1:y:169:LYS:CD	1:y:343:ASN:HD22	2.25	0.48
1:z:84:PRO:O	1:z:87:VAL:HG12	2.14	0.48
1:z:94:TYR:O	1:z:105:VAL:HG11	2.14	0.48
1:1:84:PRO:O	1:1:87:VAL:HG12	2.14	0.48
1:1:161:ILE:HD12	1:1:209:ARG:HH12	1.79	0.48
1:1:199:ILE:HG21	1:1:204:ILE:HD13	1.96	0.48
1:2:180:VAL:HG23	1:2:183:MET:HE3	1.95	0.48
1:A:361:LYS:HD2	1:G:356:ARG:HE	1.77	0.47
1:B:94:TYR:O	1:B:105:VAL:HG11	2.14	0.47
1:D:94:TYR:O	1:D:105:VAL:HG11	2.14	0.47
1:D:266:ARG:HD2	1:D:362:MET:SD	2.54	0.47
1:E:170:VAL:HG12	1:E:178:TRP:HH2	1.79	0.47
1:F:120:ARG:HD3	1:F:228:PHE:O	2.14	0.47
1:F:266:ARG:HD2	1:F:362:MET:SD	2.54	0.47
1:H:86:ASN:O	1:H:239:VAL:HG12	2.14	0.47
1:I:84:PRO:O	1:I:87:VAL:HG12	2.14	0.47
1:I:86:ASN:O	1:I:239:VAL:HG12	2.14	0.47
1:J:120:ARG:HD3	1:J:228:PHE:O	2.14	0.47
1:K:84:PRO:O	1:K:87:VAL:HG12	2.14	0.47
1:K:169:LYS:CD	1:K:343:ASN:HD22	2.25	0.47
1:M:180:VAL:HG23	1:M:183:MET:HE3	1.95	0.47
1:N:161:ILE:HD12	1:N:209:ARG:HH12	1.79	0.47
1:O:84:PRO:O	1:O:87:VAL:HG12	2.14	0.47
1:O:180:VAL:HG23	1:O:183:MET:HE3	1.95	0.47
1:P:170:VAL:HG12	1:P:178:TRP:HH2	1.79	0.47
1:Q:86:ASN:O	1:Q:239:VAL:HG12	2.14	0.47
1:Q:199:ILE:HG21	1:Q:204:ILE:HD13	1.96	0.47
1:S:270:GLY:HA2	1:S:346:PHE:CE1	2.47	0.47
1:T:279:ARG:HG3	1:c:71:ASN:HD22	1.79	0.47
1:V:270:GLY:HA2	1:V:346:PHE:CE1	2.47	0.47
1:W:94:TYR:O	1:W:105:VAL:HG11	2.14	0.47
1:X:199:ILE:HG21	1:X:204:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:356:ARG:HE	1:4:361:LYS:HD2	1.78	0.47
1:Y:71:ASN:HD22	1:x:279:ARG:HG3	1.79	0.47
1:8:120:ARG:HD3	1:8:228:PHE:O	2.14	0.47
1:7:199:ILE:HG21	1:7:204:ILE:HD13	1.96	0.47
1:5:133:LEU:N	1:5:213:GLN:HE21	1.97	0.47
1:5:180:VAL:HG23	1:5:183:MET:HE3	1.95	0.47
1:a:266:ARG:HD2	1:a:362:MET:SD	2.54	0.47
1:a:279:ARG:HG3	1:e:71:ASN:HD22	1.79	0.47
1:b:161:ILE:HD12	1:b:209:ARG:HH12	1.79	0.47
1:b:180:VAL:HG23	1:b:183:MET:HE3	1.95	0.47
1:c:311:ILE:HB	1:c:314:VAL:HG22	1.94	0.47
1:d:80:MET:HB3	1:d:201:PRO:HG2	1.95	0.47
1:d:86:ASN:O	1:d:239:VAL:HG12	2.14	0.47
1:d:94:TYR:O	1:d:105:VAL:HG11	2.14	0.47
1:f:241:GLN:HB3	1:f:243:ASN:HD21	1.78	0.47
1:g:94:TYR:O	1:g:105:VAL:HG11	2.14	0.47
1:h:86:ASN:O	1:h:239:VAL:HG12	2.14	0.47
1:h:120:ARG:HD3	1:h:228:PHE:O	2.14	0.47
1:i:180:VAL:HG23	1:i:183:MET:HE3	1.95	0.47
1:i:278:ILE:HB	1:i:285:PHE:HB3	1.95	0.47
1:j:84:PRO:O	1:j:87:VAL:HG12	2.14	0.47
1:k:89:ARG:HH11	1:k:180:VAL:HG21	1.78	0.47
1:k:94:TYR:O	1:k:105:VAL:HG11	2.14	0.47
1:m:89:ARG:HH11	1:m:180:VAL:HG21	1.78	0.47
1:n:180:VAL:HG23	1:n:183:MET:HE3	1.95	0.47
1:p:89:ARG:HH11	1:p:180:VAL:HG21	1.78	0.47
1:p:120:ARG:HD3	1:p:228:PHE:O	2.14	0.47
1:r:84:PRO:O	1:r:87:VAL:HG12	2.14	0.47
1:s:120:ARG:HD3	1:s:228:PHE:O	2.14	0.47
1:x:120:ARG:HD3	1:x:228:PHE:O	2.14	0.47
1:y:170:VAL:HG12	1:y:178:TRP:HH2	1.79	0.47
1:z:89:ARG:HH11	1:z:180:VAL:HG21	1.78	0.47
1:2:84:PRO:O	1:2:87:VAL:HG12	2.14	0.47
1:A:94:TYR:O	1:A:105:VAL:HG11	2.14	0.47
1:A:120:ARG:HD3	1:A:228:PHE:O	2.14	0.47
1:B:86:ASN:O	1:B:239:VAL:HG12	2.14	0.47
1:F:89:ARG:HH11	1:F:180:VAL:HG21	1.78	0.47
1:G:199:ILE:HG21	1:G:204:ILE:HD13	1.96	0.47
1:H:180:VAL:HG23	1:H:183:MET:HE3	1.95	0.47
1:H:323:ASP:O	1:H:327:ILE:N	2.40	0.47
1:I:120:ARG:HD3	1:I:228:PHE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:86:ASN:O	1:J:239:VAL:HG12	2.14	0.47
1:K:94:TYR:O	1:K:105:VAL:HG11	2.15	0.47
1:K:120:ARG:HD3	1:K:228:PHE:O	2.14	0.47
1:K:266:ARG:HD2	1:K:362:MET:SD	2.54	0.47
1:M:279:ARG:HG3	1:6:71:ASN:HD22	1.79	0.47
1:P:143:GLY:O	1:P:144:THR:OG1	2.25	0.47
1:T:94:TYR:O	1:T:105:VAL:HG11	2.15	0.47
1:U:199:ILE:HG21	1:U:204:ILE:HD13	1.96	0.47
1:Y:84:PRO:O	1:Y:87:VAL:HG12	2.14	0.47
1:Y:199:ILE:HG21	1:Y:204:ILE:HD13	1.96	0.47
1:Z:194:SER:N	1:Z:197:ASN:O	2.40	0.47
1:7:94:TYR:O	1:7:105:VAL:HG11	2.14	0.47
1:4:94:TYR:O	1:4:105:VAL:HG11	2.14	0.47
1:3:94:TYR:O	1:3:105:VAL:HG11	2.14	0.47
1:3:266:ARG:HD2	1:3:362:MET:SD	2.54	0.47
1:a:270:GLY:HA2	1:a:346:PHE:CE1	2.47	0.47
1:c:84:PRO:O	1:c:87:VAL:HG12	2.14	0.47
1:e:94:TYR:O	1:e:105:VAL:HG11	2.14	0.47
1:f:199:ILE:HG21	1:f:204:ILE:HD13	1.96	0.47
1:g:84:PRO:O	1:g:87:VAL:HG12	2.14	0.47
1:g:169:LYS:CD	1:g:343:ASN:HD22	2.25	0.47
1:h:169:LYS:CD	1:h:343:ASN:HD22	2.25	0.47
1:i:94:TYR:O	1:i:105:VAL:HG11	2.14	0.47
1:j:86:ASN:O	1:j:239:VAL:HG12	2.14	0.47
1:k:86:ASN:O	1:k:239:VAL:HG12	2.14	0.47
1:n:169:LYS:CD	1:n:343:ASN:HD22	2.25	0.47
1:o:86:ASN:O	1:o:239:VAL:HG12	2.14	0.47
1:p:279:ARG:HG3	1:u:71:ASN:HD22	1.79	0.47
1:q:199:ILE:HG21	1:q:204:ILE:HD13	1.96	0.47
1:r:86:ASN:O	1:r:239:VAL:HG12	2.14	0.47
1:r:120:ARG:HD3	1:r:228:PHE:O	2.14	0.47
1:s:94:TYR:O	1:s:105:VAL:HG11	2.14	0.47
1:u:161:ILE:HD12	1:u:209:ARG:HH12	1.79	0.47
1:w:151:PHE:HE1	1:2:151:PHE:CE2	2.32	0.47
1:w:180:VAL:HG23	1:w:183:MET:HE3	1.95	0.47
1:x:94:TYR:O	1:x:105:VAL:HG11	2.14	0.47
1:y:120:ARG:HD3	1:y:228:PHE:O	2.14	0.47
1:y:143:GLY:O	1:y:144:THR:OG1	2.25	0.47
1:z:266:ARG:HD2	1:z:362:MET:SD	2.54	0.47
1:z:270:GLY:HA2	1:z:346:PHE:CE1	2.47	0.47
1:2:80:MET:HB3	1:2:201:PRO:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:89:ARG:HH11	1:B:180:VAL:HG21	1.78	0.47
1:C:84:PRO:O	1:C:87:VAL:HG12	2.14	0.47
1:C:94:TYR:O	1:C:105:VAL:HG11	2.14	0.47
1:D:80:MET:HB3	1:D:201:PRO:HG2	1.95	0.47
1:E:161:ILE:HD12	1:E:209:ARG:HH12	1.79	0.47
1:E:169:LYS:CD	1:E:343:ASN:HD22	2.25	0.47
1:E:199:ILE:HG21	1:E:204:ILE:HD13	1.96	0.47
1:G:241:GLN:HB3	1:G:243:ASN:HD21	1.78	0.47
1:H:80:MET:HB3	1:H:201:PRO:HG2	1.95	0.47
1:H:184:ARG:NH1	1:H:295:THR:OG1	2.40	0.47
1:K:170:VAL:HG12	1:K:178:TRP:HH2	1.79	0.47
1:K:278:ILE:HB	1:K:285:PHE:HB3	1.95	0.47
1:M:94:TYR:O	1:M:105:VAL:HG11	2.14	0.47
1:M:278:ILE:HB	1:M:285:PHE:HB3	1.95	0.47
1:N:86:ASN:O	1:N:239:VAL:HG12	2.14	0.47
1:N:170:VAL:HG12	1:N:178:TRP:HH2	1.79	0.47
1:O:86:ASN:O	1:O:239:VAL:HG12	2.14	0.47
1:O:120:ARG:HD3	1:O:228:PHE:O	2.14	0.47
1:O:151:PHE:CE2	1:5:151:PHE:HE1	2.32	0.47
1:Q:170:VAL:HG12	1:Q:178:TRP:HH2	1.79	0.47
1:R:86:ASN:O	1:R:239:VAL:HG12	2.14	0.47
1:S:120:ARG:HD3	1:S:228:PHE:O	2.14	0.47
1:S:161:ILE:HD12	1:S:209:ARG:HH12	1.79	0.47
1:S:241:GLN:HB3	1:S:243:ASN:HD21	1.78	0.47
1:V:266:ARG:HD2	1:V:362:MET:SD	2.54	0.47
1:V:278:ILE:HB	1:V:285:PHE:HB3	1.95	0.47
1:W:278:ILE:HB	1:W:285:PHE:HB3	1.95	0.47
1:Y:278:ILE:HB	1:Y:285:PHE:HB3	1.95	0.47
1:Z:133:LEU:N	1:Z:213:GLN:HE21	1.97	0.47
1:Z:161:ILE:HD12	1:Z:209:ARG:HH12	1.79	0.47
1:Z:199:ILE:HG21	1:Z:204:ILE:HD13	1.96	0.47
1:8:84:PRO:O	1:8:87:VAL:HG12	2.14	0.47
1:7:71:ASN:HD22	1:i:279:ARG:HG3	1.79	0.47
1:7:86:ASN:O	1:7:239:VAL:HG12	2.14	0.47
1:6:86:ASN:O	1:6:239:VAL:HG12	2.14	0.47
1:6:94:TYR:O	1:6:105:VAL:HG11	2.14	0.47
1:5:84:PRO:O	1:5:87:VAL:HG12	2.14	0.47
1:c:86:ASN:O	1:c:239:VAL:HG12	2.14	0.47
1:c:199:ILE:HG21	1:c:204:ILE:HD13	1.96	0.47
1:c:278:ILE:HB	1:c:285:PHE:HB3	1.95	0.47
1:d:180:VAL:HG23	1:d:183:MET:HE3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:120:ARG:HD3	1:g:228:PHE:O	2.14	0.47
1:g:170:VAL:HG12	1:g:178:TRP:HH2	1.79	0.47
1:i:84:PRO:O	1:i:87:VAL:HG12	2.14	0.47
1:j:94:TYR:O	1:j:105:VAL:HG11	2.14	0.47
1:l:86:ASN:O	1:l:239:VAL:HG12	2.14	0.47
1:n:161:ILE:HD12	1:n:209:ARG:HH12	1.79	0.47
1:o:170:VAL:HG12	1:o:178:TRP:HH2	1.79	0.47
1:q:133:LEU:N	1:q:213:GLN:HE21	1.97	0.47
1:q:241:GLN:HB3	1:q:243:ASN:HD21	1.78	0.47
1:t:161:ILE:HD12	1:t:209:ARG:HH12	1.79	0.47
1:u:86:ASN:O	1:u:239:VAL:HG12	2.14	0.47
1:u:239:VAL:HG11	1:u:268:MET:HE1	1.90	0.47
1:v:241:GLN:HB3	1:v:243:ASN:HD21	1.78	0.47
1:x:270:GLY:HA2	1:x:346:PHE:CE1	2.47	0.47
1:1:86:ASN:O	1:1:239:VAL:HG12	2.14	0.47
1:2:86:ASN:O	1:2:239:VAL:HG12	2.14	0.47
1:2:161:ILE:HD12	1:2:209:ARG:HH12	1.79	0.47
1:B:80:MET:HB3	1:B:201:PRO:HG2	1.95	0.47
1:B:279:ARG:HG3	1:C:71:ASN:HD22	1.79	0.47
1:C:80:MET:HB3	1:C:201:PRO:HG2	1.95	0.47
1:C:86:ASN:O	1:C:239:VAL:HG12	2.14	0.47
1:D:89:ARG:HH11	1:D:180:VAL:HG21	1.78	0.47
1:F:210:TYR:HD2	1:R:130:ASN:OD1	1.98	0.47
1:H:84:PRO:O	1:H:87:VAL:HG12	2.14	0.47
1:L:290:GLN:OE1	1:7:278:ILE:HG12	2.14	0.47
1:M:84:PRO:O	1:M:87:VAL:HG12	2.14	0.47
1:M:120:ARG:HD3	1:M:228:PHE:O	2.14	0.47
1:M:170:VAL:HG12	1:M:178:TRP:HH2	1.79	0.47
1:N:169:LYS:CD	1:N:343:ASN:HD22	2.25	0.47
1:P:278:ILE:HB	1:P:285:PHE:HB3	1.95	0.47
1:Q:120:ARG:HD3	1:Q:228:PHE:O	2.14	0.47
1:Q:184:ARG:NH1	1:Q:295:THR:OG1	2.40	0.47
1:R:161:ILE:HD12	1:R:209:ARG:HH12	1.79	0.47
1:S:199:ILE:HG21	1:S:204:ILE:HD13	1.96	0.47
1:V:279:ARG:HG3	1:W:71:ASN:HD22	1.79	0.47
1:W:120:ARG:HD3	1:W:228:PHE:O	2.14	0.47
1:X:266:ARG:HD2	1:X:362:MET:SD	2.54	0.47
1:Y:86:ASN:O	1:Y:239:VAL:HG12	2.14	0.47
1:Z:94:TYR:O	1:Z:105:VAL:HG11	2.14	0.47
1:Z:241:GLN:HB3	1:Z:243:ASN:HD21	1.78	0.47
1:8:169:LYS:CD	1:8:343:ASN:HD22	2.25	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:170:VAL:HG12	1:8:178:TRP:HH2	1.79	0.47
1:7:270:GLY:HA2	1:7:346:PHE:CE1	2.47	0.47
1:6:180:VAL:HG23	1:6:183:MET:HE3	1.95	0.47
1:3:122:THR:CG2	1:3:123:LYS:H	1.93	0.47
1:3:161:ILE:HD12	1:3:209:ARG:HH12	1.79	0.47
1:e:278:ILE:HB	1:e:285:PHE:HB3	1.95	0.47
1:g:266:ARG:HD2	1:g:362:MET:SD	2.54	0.47
1:g:278:ILE:HB	1:g:285:PHE:HB3	1.95	0.47
1:i:170:VAL:HG12	1:i:178:TRP:HH2	1.79	0.47
1:j:80:MET:HB3	1:j:201:PRO:HG2	1.95	0.47
1:j:260:VAL:HG12	1:j:328:GLN:CD	2.40	0.47
1:k:120:ARG:HD3	1:k:228:PHE:O	2.14	0.47
1:n:199:ILE:HG21	1:n:204:ILE:HD13	1.96	0.47
1:o:120:ARG:HD3	1:o:228:PHE:O	2.14	0.47
1:p:94:TYR:O	1:p:105:VAL:HG11	2.14	0.47
1:p:266:ARG:NH2	1:p:360:GLY:O	2.29	0.47
1:p:266:ARG:HD2	1:p:362:MET:SD	2.54	0.47
1:t:80:MET:HB3	1:t:201:PRO:HG2	1.95	0.47
1:u:241:GLN:HB3	1:u:243:ASN:HD21	1.78	0.47
1:v:270:GLY:HA2	1:v:346:PHE:CE1	2.47	0.47
1:w:84:PRO:O	1:w:87:VAL:HG12	2.14	0.47
1:w:241:GLN:HB3	1:w:243:ASN:HD21	1.78	0.47
1:x:80:MET:HB3	1:x:201:PRO:HG2	1.95	0.47
1:x:86:ASN:O	1:x:239:VAL:HG12	2.14	0.47
1:y:84:PRO:O	1:y:87:VAL:HG12	2.14	0.47
1:y:278:ILE:HB	1:y:285:PHE:HB3	1.95	0.47
1:z:80:MET:HB3	1:z:201:PRO:HG2	1.95	0.47
1:2:184:ARG:NH1	1:2:295:THR:OG1	2.40	0.47
1:B:120:ARG:HD3	1:B:228:PHE:O	2.14	0.47
1:B:170:VAL:HG12	1:B:178:TRP:HH2	1.79	0.47
1:C:228:PHE:HE2	1:C:230:PHE:HE1	0.79	0.47
1:C:230:PHE:CD2	1:C:330:TYR:CE2	3.03	0.47
1:C:260:VAL:HG12	1:C:328:GLN:CD	2.40	0.47
1:E:86:ASN:O	1:E:239:VAL:HG12	2.14	0.47
1:F:266:ARG:NH2	1:F:360:GLY:O	2.29	0.47
1:G:120:ARG:HD3	1:G:228:PHE:O	2.14	0.47
1:G:133:LEU:N	1:G:213:GLN:HE21	1.97	0.47
1:I:161:ILE:HD12	1:I:209:ARG:HH12	1.79	0.47
1:K:260:VAL:HG12	1:K:328:GLN:CD	2.40	0.47
1:M:260:VAL:HG12	1:M:328:GLN:CD	2.40	0.47
1:O:230:PHE:CD2	1:O:330:TYR:CE2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:84:PRO:O	1:P:87:VAL:HG12	2.14	0.47
1:P:120:ARG:HD3	1:P:228:PHE:O	2.14	0.47
1:R:180:VAL:HG23	1:R:183:MET:HE3	1.95	0.47
1:S:94:TYR:O	1:S:105:VAL:HG11	2.14	0.47
1:S:260:VAL:HG12	1:S:328:GLN:CD	2.40	0.47
1:T:80:MET:HB3	1:T:201:PRO:HG2	1.95	0.47
1:T:270:GLY:HA2	1:T:346:PHE:CE1	2.47	0.47
1:Z:266:ARG:HD2	1:Z:362:MET:SD	2.54	0.47
1:8:199:ILE:HG21	1:8:204:ILE:HD13	1.96	0.47
1:8:230:PHE:CD2	1:8:330:TYR:CE2	3.03	0.47
1:7:180:VAL:HG23	1:7:183:MET:HE3	1.95	0.47
1:7:278:ILE:HB	1:7:285:PHE:HB3	1.95	0.47
1:5:241:GLN:HB3	1:5:243:ASN:HD21	1.78	0.47
1:4:122:THR:CG2	1:4:123:LYS:H	1.93	0.47
1:4:170:VAL:HG12	1:4:178:TRP:HH2	1.79	0.47
1:4:266:ARG:HD2	1:4:362:MET:SD	2.54	0.47
1:3:170:VAL:HG12	1:3:178:TRP:HH2	1.79	0.47
1:b:89:ARG:HH11	1:b:180:VAL:HG21	1.78	0.47
1:b:266:ARG:HD2	1:b:362:MET:SD	2.54	0.47
1:d:84:PRO:O	1:d:87:VAL:HG12	2.14	0.47
1:d:241:GLN:HB3	1:d:243:ASN:HD21	1.78	0.47
1:e:120:ARG:HD3	1:e:228:PHE:O	2.14	0.47
1:f:94:TYR:O	1:f:105:VAL:HG11	2.14	0.47
1:f:161:ILE:HD12	1:f:209:ARG:HH12	1.79	0.47
1:h:84:PRO:O	1:h:87:VAL:HG12	2.14	0.47
1:h:170:VAL:HG12	1:h:178:TRP:HH2	1.79	0.47
1:i:120:ARG:HD3	1:i:228:PHE:O	2.14	0.47
1:j:143:GLY:O	1:j:144:THR:OG1	2.25	0.47
1:j:230:PHE:CD2	1:j:330:TYR:CE2	3.03	0.47
1:k:80:MET:HB3	1:k:201:PRO:HG2	1.95	0.47
1:k:170:VAL:HG12	1:k:178:TRP:HH2	1.79	0.47
1:n:86:ASN:O	1:n:239:VAL:HG12	2.14	0.47
1:q:120:ARG:HD3	1:q:228:PHE:O	2.14	0.47
1:s:84:PRO:O	1:s:87:VAL:HG12	2.14	0.47
1:u:180:VAL:HG23	1:u:183:MET:HE3	1.95	0.47
1:v:120:ARG:HD3	1:v:228:PHE:O	2.14	0.47
1:v:161:ILE:HD12	1:v:209:ARG:HH12	1.79	0.47
1:v:199:ILE:HG21	1:v:204:ILE:HD13	1.96	0.47
1:w:133:LEU:N	1:w:213:GLN:HE21	1.97	0.47
1:x:180:VAL:HG23	1:x:183:MET:HE3	1.95	0.47
1:1:170:VAL:HG12	1:1:178:TRP:HH2	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:120:ARG:HD3	1:2:228:PHE:O	2.14	0.47
1:2:230:PHE:CD2	1:2:330:TYR:CE2	3.03	0.47
1:C:143:GLY:O	1:C:144:THR:OG1	2.25	0.47
1:F:71:ASN:HD22	1:G:279:ARG:HG3	1.78	0.47
1:F:94:TYR:O	1:F:105:VAL:HG11	2.14	0.47
1:K:241:GLN:HB3	1:K:243:ASN:HD21	1.78	0.47
1:L:161:ILE:HD12	1:L:209:ARG:HH12	1.79	0.47
1:L:169:LYS:CD	1:L:343:ASN:HD22	2.25	0.47
1:L:260:VAL:HG12	1:L:328:GLN:CD	2.40	0.47
1:O:161:ILE:HD12	1:O:209:ARG:HH12	1.79	0.47
1:O:241:GLN:HB3	1:O:243:ASN:HD21	1.78	0.47
1:P:260:VAL:HG12	1:P:328:GLN:CD	2.40	0.47
1:Q:230:PHE:CD2	1:Q:330:TYR:CE2	3.03	0.47
1:T:86:ASN:O	1:T:239:VAL:HG12	2.14	0.47
1:T:180:VAL:HG23	1:T:183:MET:HE3	1.95	0.47
1:U:86:ASN:O	1:U:239:VAL:HG12	2.14	0.47
1:U:161:ILE:HD12	1:U:209:ARG:HH12	1.79	0.47
1:V:170:VAL:HG12	1:V:178:TRP:HH2	1.79	0.47
1:Y:94:TYR:O	1:Y:105:VAL:HG11	2.14	0.47
1:Y:170:VAL:HG12	1:Y:178:TRP:HH2	1.80	0.47
1:Y:260:VAL:HG12	1:Y:328:GLN:CD	2.40	0.47
1:8:80:MET:HB3	1:8:201:PRO:HG2	1.95	0.47
1:8:182:SER:OG	1:8:187:ASP:OD2	2.23	0.47
1:7:120:ARG:HD3	1:7:228:PHE:O	2.14	0.47
1:7:184:ARG:NH1	1:7:295:THR:OG1	2.40	0.47
1:6:278:ILE:HB	1:6:285:PHE:HB3	1.95	0.47
1:5:86:ASN:O	1:5:239:VAL:HG12	2.14	0.47
1:4:241:GLN:HB3	1:4:243:ASN:HD21	1.78	0.47
1:3:241:GLN:HB3	1:3:243:ASN:HD21	1.78	0.47
1:3:361:LYS:HD2	1:b:356:ARG:HE	1.78	0.47
1:a:161:ILE:HD12	1:a:209:ARG:HH12	1.79	0.47
1:a:170:VAL:HG12	1:a:178:TRP:HH2	1.79	0.47
1:b:270:GLY:HA2	1:b:346:PHE:CE1	2.47	0.47
1:c:94:TYR:O	1:c:105:VAL:HG11	2.14	0.47
1:c:170:VAL:HG12	1:c:178:TRP:HH2	1.80	0.47
1:c:260:VAL:HG12	1:c:328:GLN:CD	2.40	0.47
1:d:266:ARG:HD2	1:d:362:MET:SD	2.54	0.47
1:g:86:ASN:O	1:g:239:VAL:HG12	2.14	0.47
1:g:260:VAL:HG12	1:g:328:GLN:CD	2.40	0.47
1:h:179:PRO:O	1:h:188:TYR:OH	2.25	0.47
1:h:199:ILE:HG21	1:h:204:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:230:PHE:CD2	1:h:330:TYR:CE2	3.03	0.47
1:i:260:VAL:HG12	1:i:328:GLN:CD	2.40	0.47
1:j:71:ASN:HD22	1:k:279:ARG:HG3	1.79	0.47
1:m:161:ILE:HD12	1:m:209:ARG:HH12	1.79	0.47
1:p:71:ASN:HD22	1:q:279:ARG:HG3	1.78	0.47
1:q:356:ARG:HE	1:s:361:LYS:HD2	1.78	0.47
1:t:86:ASN:O	1:t:239:VAL:HG12	2.14	0.47
1:v:94:TYR:O	1:v:105:VAL:HG11	2.14	0.47
1:v:170:VAL:HG12	1:v:178:TRP:HH2	1.79	0.47
1:v:260:VAL:HG12	1:v:328:GLN:CD	2.40	0.47
1:w:86:ASN:O	1:w:239:VAL:HG12	2.14	0.47
1:y:260:VAL:HG12	1:y:328:GLN:CD	2.40	0.47
1:2:241:GLN:HB3	1:2:243:ASN:HD21	1.78	0.47
1:A:84:PRO:O	1:A:87:VAL:HG12	2.14	0.47
1:A:89:ARG:HH11	1:A:180:VAL:HG21	1.78	0.47
1:A:210:TYR:HD2	1:B:130:ASN:OD1	1.97	0.47
1:B:199:ILE:HG21	1:B:204:ILE:HD13	1.96	0.47
1:C:120:ARG:HD3	1:C:228:PHE:O	2.14	0.47
1:E:84:PRO:O	1:E:87:VAL:HG12	2.14	0.47
1:G:241:GLN:HE21	1:G:268:MET:HB2	1.76	0.47
1:G:260:VAL:HG12	1:G:328:GLN:CD	2.40	0.47
1:H:241:GLN:HB3	1:H:243:ASN:HD21	1.78	0.47
1:H:266:ARG:HD2	1:H:362:MET:SD	2.54	0.47
1:I:94:TYR:O	1:I:105:VAL:HG11	2.14	0.47
1:I:260:VAL:HG12	1:I:328:GLN:CD	2.40	0.47
1:I:266:ARG:HD2	1:I:362:MET:SD	2.54	0.47
1:J:94:TYR:O	1:J:105:VAL:HG11	2.14	0.47
1:J:228:PHE:HE2	1:J:230:PHE:HE1	0.79	0.47
1:K:86:ASN:O	1:K:239:VAL:HG12	2.14	0.47
1:K:184:ARG:NH1	1:K:295:THR:OG1	2.40	0.47
1:L:84:PRO:O	1:L:87:VAL:HG12	2.14	0.47
1:M:71:ASN:HD22	1:N:279:ARG:HG3	1.78	0.47
1:M:179:PRO:O	1:M:188:TYR:OH	2.25	0.47
1:M:199:ILE:HG21	1:M:204:ILE:HD13	1.96	0.47
1:N:228:PHE:HE2	1:N:230:PHE:HE1	0.79	0.47
1:O:94:TYR:O	1:O:105:VAL:HG11	2.14	0.47
1:P:199:ILE:HG21	1:P:204:ILE:HD13	1.96	0.47
1:Q:130:ASN:OD1	1:S:210:TYR:HD2	1.98	0.47
1:Q:180:VAL:HG23	1:Q:183:MET:HE3	1.95	0.47
1:Q:270:GLY:HA2	1:Q:346:PHE:CE1	2.47	0.47
1:R:80:MET:HG2	1:R:190:ALA:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:120:ARG:HD3	1:R:228:PHE:O	2.14	0.47
1:R:179:PRO:O	1:R:188:TYR:OH	2.25	0.47
1:R:230:PHE:CD2	1:R:330:TYR:CE2	3.03	0.47
1:R:241:GLN:HB3	1:R:243:ASN:HD21	1.78	0.47
1:R:270:GLY:HA2	1:R:346:PHE:CE1	2.47	0.47
1:S:84:PRO:O	1:S:87:VAL:HG12	2.14	0.47
1:S:170:VAL:HG12	1:S:178:TRP:HH2	1.79	0.47
1:T:161:ILE:HD12	1:T:209:ARG:HH12	1.79	0.47
1:U:170:VAL:HG12	1:U:178:TRP:HH2	1.79	0.47
1:V:161:ILE:HD12	1:V:209:ARG:HH12	1.79	0.47
1:X:89:ARG:HH11	1:X:180:VAL:HG21	1.78	0.47
1:X:270:GLY:HA2	1:X:346:PHE:CE1	2.47	0.47
1:X:278:ILE:HB	1:X:285:PHE:HB3	1.95	0.47
1:Y:230:PHE:CD2	1:Y:330:TYR:CE2	3.03	0.47
1:Z:84:PRO:O	1:Z:87:VAL:HG12	2.14	0.47
1:7:84:PRO:O	1:7:87:VAL:HG12	2.14	0.47
1:6:84:PRO:O	1:6:87:VAL:HG12	2.14	0.47
1:6:120:ARG:HD3	1:6:228:PHE:O	2.14	0.47
1:6:184:ARG:NH1	1:6:295:THR:OG1	2.40	0.47
1:6:270:GLY:HA2	1:6:346:PHE:CE1	2.47	0.47
1:5:161:ILE:HD12	1:5:209:ARG:HH12	1.79	0.47
1:5:199:ILE:HG21	1:5:204:ILE:HD13	1.96	0.47
1:4:84:PRO:O	1:4:87:VAL:HG12	2.14	0.47
1:4:161:ILE:HD12	1:4:209:ARG:HH12	1.79	0.47
1:3:84:PRO:O	1:3:87:VAL:HG12	2.14	0.47
1:b:71:ASN:HD22	1:c:279:ARG:HG3	1.78	0.47
1:b:94:TYR:O	1:b:105:VAL:HG11	2.14	0.47
1:b:170:VAL:HG12	1:b:178:TRP:HH2	1.79	0.47
1:b:230:PHE:CD2	1:b:330:TYR:CE2	3.03	0.47
1:b:278:ILE:HB	1:b:285:PHE:HB3	1.95	0.47
1:c:230:PHE:CD2	1:c:330:TYR:CE2	3.03	0.47
1:f:84:PRO:O	1:f:87:VAL:HG12	2.14	0.47
1:f:266:ARG:HD2	1:f:362:MET:SD	2.54	0.47
1:g:184:ARG:NH1	1:g:295:THR:OG1	2.40	0.47
1:g:241:GLN:HB3	1:g:243:ASN:HD21	1.78	0.47
1:h:80:MET:HB3	1:h:201:PRO:HG2	1.95	0.47
1:h:80:MET:HG2	1:h:190:ALA:O	2.15	0.47
1:i:71:ASN:HD22	1:1:279:ARG:HG3	1.78	0.47
1:i:184:ARG:NH1	1:i:295:THR:OG1	2.40	0.47
1:i:199:ILE:HG21	1:i:204:ILE:HD13	1.96	0.47
1:j:120:ARG:HD3	1:j:228:PHE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:228:PHE:HE2	1:j:230:PHE:HE1	0.79	0.47
1:k:84:PRO:O	1:k:87:VAL:HG12	2.14	0.47
1:k:199:ILE:HG21	1:k:204:ILE:HD13	1.96	0.47
1:l:94:TYR:O	1:l:105:VAL:HG11	2.14	0.47
1:l:161:ILE:HD12	1:l:209:ARG:HH12	1.79	0.47
1:m:84:PRO:O	1:m:87:VAL:HG12	2.14	0.47
1:m:169:LYS:CD	1:m:343:ASN:HD22	2.25	0.47
1:m:260:VAL:HG12	1:m:328:GLN:CD	2.40	0.47
1:n:84:PRO:O	1:n:87:VAL:HG12	2.14	0.47
1:o:130:ASN:OD1	1:v:210:TYR:HD2	1.98	0.47
1:o:230:PHE:CD2	1:o:330:TYR:CE2	3.03	0.47
1:o:270:GLY:HA2	1:o:346:PHE:CE1	2.47	0.47
1:p:182:SER:OG	1:p:187:ASP:OD2	2.23	0.47
1:p:210:TYR:HD2	1:u:130:ASN:OD1	1.98	0.47
1:q:241:GLN:HE21	1:q:268:MET:HB2	1.76	0.47
1:q:260:VAL:HG12	1:q:328:GLN:CD	2.40	0.47
1:r:94:TYR:O	1:r:105:VAL:HG11	2.14	0.47
1:r:161:ILE:HD12	1:r:209:ARG:HH12	1.79	0.47
1:r:260:VAL:HG12	1:r:328:GLN:CD	2.40	0.47
1:r:266:ARG:HD2	1:r:362:MET:SD	2.54	0.47
1:s:89:ARG:HH11	1:s:180:VAL:HG21	1.78	0.47
1:t:170:VAL:HG12	1:t:178:TRP:HH2	1.79	0.47
1:u:120:ARG:HD3	1:u:228:PHE:O	2.14	0.47
1:u:179:PRO:O	1:u:188:TYR:OH	2.25	0.47
1:u:270:GLY:HA2	1:u:346:PHE:CE1	2.47	0.47
1:v:230:PHE:CD2	1:v:330:TYR:CE2	3.03	0.47
1:w:228:PHE:HE2	1:w:230:PHE:HE1	0.79	0.47
1:x:161:ILE:HD12	1:x:209:ARG:HH12	1.79	0.47
1:y:80:MET:HB3	1:y:201:PRO:HG2	1.95	0.47
1:z:199:ILE:HG21	1:z:204:ILE:HD13	1.96	0.47
1:1:169:LYS:CD	1:1:343:ASN:HD22	2.25	0.47
1:2:94:TYR:O	1:2:105:VAL:HG11	2.14	0.47
1:2:143:GLY:O	1:2:144:THR:OG1	2.25	0.47
1:A:130:ASN:OD1	1:E:210:TYR:HD2	1.98	0.47
1:A:270:GLY:HA2	1:A:346:PHE:CE1	2.47	0.47
1:B:84:PRO:O	1:B:87:VAL:HG12	2.14	0.47
1:B:266:ARG:HD2	1:B:362:MET:SD	2.54	0.47
1:D:199:ILE:HG21	1:D:204:ILE:HD13	1.96	0.47
1:F:86:ASN:O	1:F:239:VAL:HG12	2.14	0.47
1:F:228:PHE:HE2	1:F:230:PHE:HE1	0.79	0.47
1:J:161:ILE:HD12	1:J:209:ARG:HH12	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:80:MET:HB3	1:P:201:PRO:HG2	1.95	0.47
1:P:266:ARG:HD2	1:P:362:MET:SD	2.54	0.47
1:R:278:ILE:HB	1:R:285:PHE:HB3	1.95	0.47
1:S:230:PHE:CD2	1:S:330:TYR:CE2	3.03	0.47
1:U:84:PRO:O	1:U:87:VAL:HG12	2.14	0.47
1:X:71:ASN:HD22	1:Y:279:ARG:HG3	1.78	0.47
1:X:80:MET:HG2	1:X:190:ALA:O	2.15	0.47
1:X:94:TYR:O	1:X:105:VAL:HG11	2.14	0.47
1:X:170:VAL:HG12	1:X:178:TRP:HH2	1.79	0.47
1:X:230:PHE:CD2	1:X:330:TYR:CE2	3.03	0.47
1:Y:241:GLN:HB3	1:Y:243:ASN:HD21	1.78	0.47
1:8:80:MET:HG2	1:8:190:ALA:O	2.15	0.47
1:6:210:TYR:HD2	1:m:130:ASN:OD1	1.98	0.47
1:3:199:ILE:HG21	1:3:204:ILE:HD13	1.96	0.47
1:b:143:GLY:O	1:b:144:THR:OG1	2.25	0.47
1:d:279:ARG:HG3	1:f:71:ASN:HD22	1.79	0.47
1:i:80:MET:HB3	1:i:201:PRO:HG2	1.95	0.47
1:o:180:VAL:HG23	1:o:183:MET:HE3	1.95	0.47
1:p:80:MET:HG2	1:p:190:ALA:O	2.15	0.47
1:p:86:ASN:O	1:p:239:VAL:HG12	2.14	0.47
1:r:180:VAL:HG23	1:r:183:MET:HE3	1.95	0.47
1:s:230:PHE:CD2	1:s:330:TYR:CE2	3.03	0.47
1:u:80:MET:HG2	1:u:190:ALA:O	2.15	0.47
1:u:84:PRO:O	1:u:87:VAL:HG12	2.14	0.47
1:u:230:PHE:CD2	1:u:330:TYR:CE2	3.03	0.47
1:v:84:PRO:O	1:v:87:VAL:HG12	2.14	0.47
1:w:161:ILE:HD12	1:w:209:ARG:HH12	1.79	0.47
1:A:47:TRP:CZ3	1:G:210:TYR:CE2	3.03	0.47
1:A:230:PHE:CD2	1:A:330:TYR:CE2	3.03	0.47
1:C:80:MET:HG2	1:C:190:ALA:O	2.15	0.47
1:F:80:MET:HG2	1:F:190:ALA:O	2.15	0.47
1:F:170:VAL:HG12	1:F:178:TRP:HH2	1.79	0.47
1:F:199:ILE:HG21	1:F:204:ILE:HD13	1.96	0.47
1:F:260:VAL:HG12	1:F:328:GLN:CD	2.40	0.47
1:F:278:ILE:HB	1:F:285:PHE:HB3	1.95	0.47
1:I:80:MET:HG2	1:I:190:ALA:O	2.15	0.47
1:L:80:MET:HG2	1:L:190:ALA:O	2.15	0.47
1:L:157:MET:HE3	1:L:273:LEU:HD22	1.97	0.47
1:M:80:MET:HG2	1:M:190:ALA:O	2.15	0.47
1:M:184:ARG:NH1	1:M:295:THR:OG1	2.40	0.47
1:M:230:PHE:CD2	1:M:330:TYR:CE2	3.03	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:71:ASN:HD22	1:P:279:ARG:HG3	1.79	0.47
1:R:84:PRO:O	1:R:87:VAL:HG12	2.14	0.47
1:R:94:TYR:O	1:R:105:VAL:HG11	2.14	0.47
1:R:199:ILE:HG21	1:R:204:ILE:HD13	1.96	0.47
1:U:130:ASN:OD1	1:4:210:TYR:HD2	1.98	0.47
1:V:120:ARG:HD3	1:V:228:PHE:O	2.14	0.47
1:V:184:ARG:NH1	1:V:295:THR:OG1	2.40	0.47
1:6:157:MET:HE3	1:6:273:LEU:HD22	1.97	0.47
1:6:356:ARG:HE	1:j:361:LYS:HD2	1.78	0.47
1:a:80:MET:HG2	1:a:190:ALA:O	2.15	0.47
1:b:80:MET:HG2	1:b:190:ALA:O	2.15	0.47
1:g:157:MET:HE3	1:g:273:LEU:HD22	1.97	0.47
1:i:230:PHE:CD2	1:i:330:TYR:CE2	3.03	0.47
1:k:266:ARG:HD2	1:k:362:MET:SD	2.54	0.47
1:l:170:VAL:HG12	1:l:178:TRP:HH2	1.79	0.47
1:m:157:MET:HE3	1:m:273:LEU:HD22	1.97	0.47
1:p:228:PHE:HE2	1:p:230:PHE:HE1	0.79	0.47
1:r:80:MET:HG2	1:r:190:ALA:O	2.15	0.47
1:r:143:GLY:O	1:r:144:THR:OG1	2.25	0.47
1:s:80:MET:HB3	1:s:201:PRO:HG2	1.95	0.47
1:s:170:VAL:HG12	1:s:178:TRP:HH2	1.79	0.47
1:t:94:TYR:O	1:t:105:VAL:HG11	2.14	0.47
1:t:120:ARG:HD3	1:t:228:PHE:O	2.14	0.47
1:u:94:TYR:O	1:u:105:VAL:HG11	2.14	0.47
1:u:278:ILE:HB	1:u:285:PHE:HB3	1.95	0.47
1:y:133:LEU:N	1:y:213:GLN:HE21	1.97	0.47
1:y:199:ILE:HG21	1:y:204:ILE:HD13	1.96	0.47
1:z:80:MET:HG2	1:z:190:ALA:O	2.15	0.47
1:1:80:MET:HG2	1:1:190:ALA:O	2.15	0.47
1:A:199:ILE:HG21	1:A:204:ILE:HD13	1.96	0.47
1:D:80:MET:HG2	1:D:190:ALA:O	2.15	0.47
1:D:260:VAL:HG12	1:D:328:GLN:CD	2.40	0.47
1:G:278:ILE:HB	1:G:285:PHE:HB3	1.95	0.47
1:H:279:ARG:HG3	1:Z:71:ASN:HD22	1.79	0.47
1:I:143:GLY:O	1:I:144:THR:OG1	2.25	0.47
1:I:180:VAL:HG23	1:I:183:MET:HE3	1.95	0.47
1:J:130:ASN:OD1	1:8:210:TYR:HD2	1.98	0.47
1:J:230:PHE:CD2	1:J:330:TYR:CE2	3.03	0.47
1:K:157:MET:HE3	1:K:273:LEU:HD22	1.97	0.47
1:L:94:TYR:O	1:L:105:VAL:HG11	2.14	0.47
1:M:80:MET:HB3	1:M:201:PRO:HG2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:80:MET:HG2	1:N:190:ALA:O	2.15	0.47
1:N:230:PHE:CD2	1:N:330:TYR:CE2	3.03	0.47
1:T:260:VAL:HG12	1:T:328:GLN:CD	2.40	0.47
1:U:80:MET:HG2	1:U:190:ALA:O	2.15	0.47
1:U:94:TYR:O	1:U:105:VAL:HG11	2.14	0.47
1:U:120:ARG:HD3	1:U:228:PHE:O	2.14	0.47
1:V:80:MET:HG2	1:V:190:ALA:O	2.15	0.47
1:V:182:SER:OG	1:V:187:ASP:OD2	2.23	0.47
1:8:94:TYR:O	1:8:105:VAL:HG11	2.14	0.47
1:8:179:PRO:O	1:8:188:TYR:OH	2.25	0.47
1:7:157:MET:HE3	1:7:273:LEU:HD22	1.97	0.47
1:5:120:ARG:HD3	1:5:228:PHE:O	2.14	0.47
1:4:86:ASN:O	1:4:239:VAL:HG12	2.14	0.47
1:4:120:ARG:HD3	1:4:228:PHE:O	2.14	0.47
1:4:199:ILE:HG21	1:4:204:ILE:HD13	1.96	0.47
1:3:210:TYR:HD2	1:t:130:ASN:OD1	1.98	0.47
1:a:120:ARG:HD3	1:a:228:PHE:O	2.14	0.47
1:c:241:GLN:HB3	1:c:243:ASN:HD21	1.78	0.47
1:d:80:MET:HG2	1:d:190:ALA:O	2.15	0.47
1:e:230:PHE:CD2	1:e:330:TYR:CE2	3.03	0.47
1:h:182:SER:OG	1:h:187:ASP:OD2	2.23	0.47
1:h:210:TYR:HD2	1:l:130:ASN:OD1	1.98	0.47
1:i:80:MET:HG2	1:i:190:ALA:O	2.15	0.47
1:i:266:ARG:NH2	1:i:360:GLY:O	2.29	0.47
1:j:80:MET:HG2	1:j:190:ALA:O	2.15	0.47
1:j:199:ILE:HG21	1:j:204:ILE:HD13	1.96	0.47
1:l:230:PHE:CD2	1:l:330:TYR:CE2	3.03	0.47
1:m:80:MET:HG2	1:m:190:ALA:O	2.15	0.47
1:m:94:TYR:O	1:m:105:VAL:HG11	2.14	0.47
1:o:94:TYR:O	1:o:105:VAL:HG11	2.14	0.47
1:p:170:VAL:HG12	1:p:178:TRP:HH2	1.79	0.47
1:p:199:ILE:HG21	1:p:204:ILE:HD13	1.96	0.47
1:p:278:ILE:HB	1:p:285:PHE:HB3	1.95	0.47
1:q:210:TYR:CE2	1:s:47:TRP:CZ3	3.03	0.47
1:r:157:MET:HE3	1:r:273:LEU:HD22	1.98	0.47
1:s:199:ILE:HG21	1:s:204:ILE:HD13	1.96	0.47
1:t:80:MET:HG2	1:t:190:ALA:O	2.15	0.47
1:t:84:PRO:O	1:t:87:VAL:HG12	2.14	0.47
1:t:260:VAL:HG12	1:t:328:GLN:CD	2.40	0.47
1:u:199:ILE:HG21	1:u:204:ILE:HD13	1.96	0.47
1:w:199:ILE:HG21	1:w:204:ILE:HD13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:260:VAL:HG12	1:x:328:GLN:CD	2.40	0.47
1:y:266:ARG:HD2	1:y:362:MET:SD	2.54	0.47
1:y:279:ARG:HG3	1:2:71:ASN:HD22	1.79	0.47
1:z:260:VAL:HG12	1:z:328:GLN:CD	2.40	0.47
1:A:80:MET:HB3	1:A:201:PRO:HG2	1.95	0.46
1:A:210:TYR:CE2	1:I:47:TRP:CZ3	3.04	0.46
1:A:260:VAL:HG12	1:A:328:GLN:CD	2.40	0.46
1:F:157:MET:HE3	1:F:273:LEU:HD22	1.97	0.46
1:G:84:PRO:O	1:G:87:VAL:HG12	2.14	0.46
1:H:80:MET:HG2	1:H:190:ALA:O	2.15	0.46
1:H:170:VAL:HG12	1:H:178:TRP:HH2	1.79	0.46
1:I:157:MET:HE3	1:I:273:LEU:HD22	1.98	0.46
1:J:84:PRO:O	1:J:87:VAL:HG12	2.14	0.46
1:J:170:VAL:HG12	1:J:178:TRP:HH2	1.79	0.46
1:K:210:TYR:HD2	1:1:130:ASN:OD1	1.99	0.46
1:M:157:MET:HE3	1:M:273:LEU:HD22	1.97	0.46
1:M:169:LYS:CD	1:M:343:ASN:HD22	2.25	0.46
1:O:157:MET:HE3	1:O:273:LEU:HD22	1.98	0.46
1:P:94:TYR:O	1:P:105:VAL:HG11	2.14	0.46
1:Q:94:TYR:O	1:Q:105:VAL:HG11	2.14	0.46
1:T:210:TYR:HD2	1:c:130:ASN:OD1	1.99	0.46
1:W:230:PHE:CD2	1:W:330:TYR:CE2	3.03	0.46
1:Y:130:ASN:OD1	1:x:210:TYR:HD2	1.99	0.46
1:Z:80:MET:HG2	1:Z:190:ALA:O	2.15	0.46
1:Z:86:ASN:O	1:Z:239:VAL:HG12	2.14	0.46
1:8:133:LEU:N	1:8:213:GLN:HE21	1.97	0.46
1:7:76:THR:HB	1:7:77:PRO:HD2	1.98	0.46
1:7:230:PHE:CD2	1:7:330:TYR:CE2	3.03	0.46
1:6:230:PHE:CD2	1:6:330:TYR:CE2	3.03	0.46
1:d:230:PHE:CD2	1:d:330:TYR:CE2	3.03	0.46
1:e:170:VAL:HG12	1:e:178:TRP:HH2	1.79	0.46
1:g:182:SER:OG	1:g:187:ASP:OD2	2.23	0.46
1:h:133:LEU:N	1:h:213:GLN:HE21	1.97	0.46
1:i:179:PRO:O	1:i:188:TYR:OH	2.25	0.46
1:l:84:PRO:O	1:l:87:VAL:HG12	2.14	0.46
1:n:80:MET:HG2	1:n:190:ALA:O	2.15	0.46
1:p:157:MET:HE3	1:p:273:LEU:HD22	1.98	0.46
1:q:278:ILE:HB	1:q:285:PHE:HB3	1.95	0.46
1:r:47:TRP:CZ3	1:s:210:TYR:CE2	3.04	0.46
1:s:260:VAL:HG12	1:s:328:GLN:CD	2.40	0.46
1:w:120:ARG:HD3	1:w:228:PHE:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:230:PHE:CD2	1:1:330:TYR:CE2	3.03	0.46
1:2:157:MET:HE3	1:2:273:LEU:HD22	1.97	0.46
1:A:170:VAL:HG12	1:A:178:TRP:HH2	1.79	0.46
1:B:230:PHE:CD2	1:B:330:TYR:CE2	3.03	0.46
1:C:199:ILE:HG21	1:C:204:ILE:HD13	1.96	0.46
1:D:161:ILE:HD12	1:D:209:ARG:HH12	1.79	0.46
1:E:80:MET:HG2	1:E:190:ALA:O	2.15	0.46
1:E:210:TYR:CE2	1:F:47:TRP:CZ3	3.04	0.46
1:G:230:PHE:CD2	1:G:330:TYR:CE2	3.03	0.46
1:L:86:ASN:O	1:L:239:VAL:HG12	2.14	0.46
1:O:170:VAL:HG12	1:O:178:TRP:HH2	1.79	0.46
1:Q:260:VAL:HG12	1:Q:328:GLN:CD	2.40	0.46
1:U:260:VAL:HG12	1:U:328:GLN:CD	2.40	0.46
1:V:199:ILE:HG21	1:V:204:ILE:HD13	1.96	0.46
1:V:356:ARG:HE	1:X:361:LYS:HD2	1.77	0.46
1:W:76:THR:HB	1:W:77:PRO:HD2	1.98	0.46
1:W:84:PRO:O	1:W:87:VAL:HG12	2.14	0.46
1:W:157:MET:HE3	1:W:273:LEU:HD22	1.97	0.46
1:X:76:THR:HB	1:X:77:PRO:HD2	1.98	0.46
1:Y:120:ARG:HD3	1:Y:228:PHE:O	2.14	0.46
1:Z:170:VAL:HG12	1:Z:178:TRP:HH2	1.79	0.46
1:6:47:TRP:CZ3	1:i:210:TYR:CE2	3.03	0.46
1:6:76:THR:HB	1:6:77:PRO:HD2	1.98	0.46
1:4:260:VAL:HG12	1:4:328:GLN:CD	2.40	0.46
1:3:86:ASN:O	1:3:239:VAL:HG12	2.14	0.46
1:a:184:ARG:NH1	1:a:295:THR:OG1	2.40	0.46
1:b:76:THR:HB	1:b:77:PRO:HD2	1.98	0.46
1:b:228:PHE:HE2	1:b:230:PHE:HE1	0.79	0.46
1:c:120:ARG:HD3	1:c:228:PHE:O	2.14	0.46
1:e:76:THR:HB	1:e:77:PRO:HD2	1.98	0.46
1:f:80:MET:HG2	1:f:190:ALA:O	2.15	0.46
1:h:94:TYR:O	1:h:105:VAL:HG11	2.14	0.46
1:j:161:ILE:HD12	1:j:209:ARG:HH12	1.79	0.46
1:k:230:PHE:CD2	1:k:330:TYR:CE2	3.03	0.46
1:n:210:TYR:CE2	1:p:47:TRP:CZ3	3.04	0.46
1:o:182:SER:OG	1:o:187:ASP:OD2	2.23	0.46
1:o:260:VAL:HG12	1:o:328:GLN:CD	2.40	0.46
1:p:130:ASN:OD1	1:q:210:TYR:HD2	1.98	0.46
1:p:260:VAL:HG12	1:p:328:GLN:CD	2.40	0.46
1:q:94:TYR:O	1:q:105:VAL:HG11	2.14	0.46
1:q:230:PHE:CD2	1:q:330:TYR:CE2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:161:ILE:HD12	1:s:209:ARG:HH12	1.79	0.46
1:s:270:GLY:HA2	1:s:346:PHE:CE1	2.47	0.46
1:y:94:TYR:O	1:y:105:VAL:HG11	2.14	0.46
1:A:117:LYS:HE3	1:A:117:LYS:HB2	1.73	0.46
1:B:80:MET:HG2	1:B:190:ALA:O	2.15	0.46
1:D:170:VAL:HG12	1:D:178:TRP:HH2	1.79	0.46
1:D:243:ASN:OD1	1:D:347:GLY:O	2.34	0.46
1:F:169:LYS:CD	1:F:343:ASN:HD22	2.25	0.46
1:H:230:PHE:CD2	1:H:330:TYR:CE2	3.03	0.46
1:I:76:THR:HB	1:I:77:PRO:HD2	1.98	0.46
1:L:230:PHE:CD2	1:L:330:TYR:CE2	3.03	0.46
1:N:130:ASN:OD1	1:g:210:TYR:HD2	1.99	0.46
1:Q:76:THR:HB	1:Q:77:PRO:HD2	1.98	0.46
1:R:170:VAL:HG12	1:R:178:TRP:HH2	1.80	0.46
1:T:76:THR:HB	1:T:77:PRO:HD2	1.98	0.46
1:U:230:PHE:CD2	1:U:330:TYR:CE2	3.03	0.46
1:Y:243:ASN:OD1	1:Y:347:GLY:O	2.34	0.46
1:5:94:TYR:O	1:5:105:VAL:HG11	2.14	0.46
1:4:270:GLY:HA2	1:4:346:PHE:CE1	2.47	0.46
1:3:120:ARG:HD3	1:3:228:PHE:O	2.14	0.46
1:a:76:THR:HB	1:a:77:PRO:HD2	1.98	0.46
1:a:356:ARG:HE	1:b:361:LYS:HD2	1.77	0.46
1:c:76:THR:HB	1:c:77:PRO:HD2	1.98	0.46
1:c:243:ASN:OD1	1:c:347:GLY:O	2.34	0.46
1:d:170:VAL:HG12	1:d:178:TRP:HH2	1.79	0.46
1:e:157:MET:HE3	1:e:273:LEU:HD22	1.98	0.46
1:f:86:ASN:O	1:f:239:VAL:HG12	2.14	0.46
1:f:170:VAL:HG12	1:f:178:TRP:HH2	1.79	0.46
1:i:76:THR:HB	1:i:77:PRO:HD2	1.97	0.46
1:i:157:MET:HE3	1:i:273:LEU:HD22	1.98	0.46
1:k:80:MET:HG2	1:k:190:ALA:O	2.15	0.46
1:l:260:VAL:HG12	1:l:328:GLN:CD	2.40	0.46
1:n:210:TYR:HD2	1:s:130:ASN:OD1	1.99	0.46
1:o:210:TYR:HD2	1:y:130:ASN:OD1	1.98	0.46
1:p:76:THR:HB	1:p:77:PRO:HD2	1.98	0.46
1:p:169:LYS:CD	1:p:343:ASN:HD22	2.25	0.46
1:q:84:PRO:O	1:q:87:VAL:HG12	2.14	0.46
1:t:230:PHE:CD2	1:t:330:TYR:CE2	3.03	0.46
1:u:157:MET:HE3	1:u:273:LEU:HD22	1.97	0.46
1:u:170:VAL:HG12	1:u:178:TRP:HH2	1.79	0.46
1:u:243:ASN:OD1	1:u:347:GLY:O	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:76:THR:HB	1:x:77:PRO:HD2	1.98	0.46
1:x:230:PHE:CD2	1:x:330:TYR:CE2	3.03	0.46
1:z:161:ILE:HD12	1:z:209:ARG:HH12	1.79	0.46
1:z:243:ASN:OD1	1:z:347:GLY:O	2.34	0.46
1:1:228:PHE:HE2	1:1:230:PHE:HE1	0.79	0.46
1:2:170:VAL:HG12	1:2:178:TRP:HH2	1.79	0.46
1:2:228:PHE:HE2	1:2:230:PHE:HE1	0.79	0.46
1:A:134:THR:OG1	1:A:288:ASN:HB2	2.16	0.46
1:A:161:ILE:HD12	1:A:209:ARG:HH12	1.79	0.46
1:C:161:ILE:HD12	1:C:209:ARG:HH12	1.79	0.46
1:C:170:VAL:HG12	1:C:178:TRP:HH2	1.79	0.46
1:D:76:THR:HB	1:D:77:PRO:HD2	1.98	0.46
1:E:76:THR:HB	1:E:77:PRO:HD2	1.98	0.46
1:E:94:TYR:O	1:E:105:VAL:HG11	2.14	0.46
1:F:76:THR:HB	1:F:77:PRO:HD2	1.98	0.46
1:G:94:TYR:O	1:G:105:VAL:HG11	2.14	0.46
1:G:134:THR:OG1	1:G:288:ASN:HB2	2.16	0.46
1:H:76:THR:HB	1:H:77:PRO:HD2	1.97	0.46
1:J:243:ASN:OD1	1:J:347:GLY:O	2.34	0.46
1:J:260:VAL:HG12	1:J:328:GLN:CD	2.40	0.46
1:M:76:THR:HB	1:M:77:PRO:HD2	1.98	0.46
1:N:47:TRP:CZ3	1:P:210:TYR:CE2	3.04	0.46
1:O:130:ASN:OD1	1:P:210:TYR:HD2	1.99	0.46
1:P:133:LEU:N	1:P:213:GLN:HE21	1.97	0.46
1:P:230:PHE:CD2	1:P:330:TYR:CE2	3.03	0.46
1:R:47:TRP:CZ3	1:S:210:TYR:CE2	3.04	0.46
1:R:157:MET:HE3	1:R:273:LEU:HD22	1.97	0.46
1:R:243:ASN:OD1	1:R:347:GLY:O	2.34	0.46
1:T:230:PHE:CD2	1:T:330:TYR:CE2	3.03	0.46
1:V:47:TRP:CZ3	1:4:210:TYR:CE2	3.04	0.46
1:V:76:THR:HB	1:V:77:PRO:HD2	1.98	0.46
1:V:134:THR:OG1	1:V:288:ASN:HB2	2.16	0.46
1:W:170:VAL:HG12	1:W:178:TRP:HH2	1.79	0.46
1:6:260:VAL:HG12	1:6:328:GLN:CD	2.40	0.46
1:5:76:THR:HB	1:5:77:PRO:HD2	1.98	0.46
1:5:157:MET:HE3	1:5:273:LEU:HD22	1.97	0.46
1:5:230:PHE:CD2	1:5:330:TYR:CE2	3.03	0.46
1:4:230:PHE:CD2	1:4:330:TYR:CE2	3.03	0.46
1:3:210:TYR:CE2	1:a:47:TRP:CZ3	3.04	0.46
1:3:230:PHE:CD2	1:3:330:TYR:CE2	3.03	0.46
1:3:260:VAL:HG12	1:3:328:GLN:CD	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:94:TYR:O	1:a:105:VAL:HG11	2.14	0.46
1:a:134:THR:OG1	1:a:288:ASN:HB2	2.16	0.46
1:e:84:PRO:O	1:e:87:VAL:HG12	2.14	0.46
1:k:130:ASN:OD1	1:s:210:TYR:HD2	1.98	0.46
1:m:86:ASN:O	1:m:239:VAL:HG12	2.14	0.46
1:m:230:PHE:CD2	1:m:330:TYR:CE2	3.03	0.46
1:n:94:TYR:O	1:n:105:VAL:HG11	2.14	0.46
1:o:84:PRO:O	1:o:87:VAL:HG12	2.14	0.46
1:q:134:THR:OG1	1:q:288:ASN:HB2	2.16	0.46
1:r:76:THR:HB	1:r:77:PRO:HD2	1.98	0.46
1:s:134:THR:OG1	1:s:288:ASN:HB2	2.16	0.46
1:t:47:TRP:CZ3	1:u:210:TYR:CE2	3.04	0.46
1:u:47:TRP:CZ3	1:v:210:TYR:CE2	3.04	0.46
1:u:260:VAL:HG12	1:u:328:GLN:CD	2.40	0.46
1:x:199:ILE:HG21	1:x:204:ILE:HD13	1.96	0.46
1:y:80:MET:HG2	1:y:190:ALA:O	2.15	0.46
1:y:210:TYR:CE2	1:1:47:TRP:CZ3	3.04	0.46
1:y:210:TYR:HD2	1:2:130:ASN:OD1	1.99	0.46
1:y:230:PHE:CD2	1:y:330:TYR:CE2	3.03	0.46
1:y:270:GLY:HA2	1:y:346:PHE:CE1	2.47	0.46
1:z:47:TRP:CZ3	1:1:210:TYR:CE2	3.04	0.46
1:z:76:THR:HB	1:z:77:PRO:HD2	1.98	0.46
1:z:170:VAL:HG12	1:z:178:TRP:HH2	1.79	0.46
1:C:218:LEU:HD21	1:M:46:VAL:HG21	1.98	0.46
1:D:47:TRP:CZ3	1:N:210:TYR:CE2	3.04	0.46
1:E:230:PHE:CD2	1:E:330:TYR:CE2	3.03	0.46
1:G:170:VAL:HG12	1:G:178:TRP:HH2	1.79	0.46
1:H:210:TYR:HD2	1:Z:130:ASN:OD1	1.99	0.46
1:I:230:PHE:CD2	1:I:330:TYR:CE2	3.03	0.46
1:J:80:MET:HG2	1:J:190:ALA:O	2.15	0.46
1:K:199:ILE:HG21	1:K:204:ILE:HD13	1.96	0.46
1:N:94:TYR:O	1:N:105:VAL:HG11	2.14	0.46
1:O:76:THR:HB	1:O:77:PRO:HD2	1.98	0.46
1:O:210:TYR:HD2	1:5:130:ASN:OD1	1.99	0.46
1:P:86:ASN:O	1:P:239:VAL:HG12	2.14	0.46
1:P:130:ASN:OD1	1:Q:210:TYR:HD2	1.99	0.46
1:P:243:ASN:OD1	1:P:347:GLY:O	2.34	0.46
1:P:270:GLY:HA2	1:P:346:PHE:CE1	2.47	0.46
1:R:260:VAL:HG12	1:R:328:GLN:CD	2.40	0.46
1:S:130:ASN:OD1	1:5:210:TYR:HD2	1.98	0.46
1:S:134:THR:OG1	1:S:288:ASN:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:199:ILE:HG21	1:W:204:ILE:HD13	1.96	0.46
1:Y:76:THR:HB	1:Y:77:PRO:HD2	1.98	0.46
1:Z:230:PHE:CD2	1:Z:330:TYR:CE2	3.03	0.46
1:6:210:TYR:CE2	1:j:47:TRP:CZ3	3.04	0.46
1:4:243:ASN:OD1	1:4:347:GLY:O	2.34	0.46
1:3:243:ASN:OD1	1:3:347:GLY:O	2.34	0.46
1:a:199:ILE:HG21	1:a:204:ILE:HD13	1.96	0.46
1:d:210:TYR:HD2	1:f:130:ASN:OD1	1.99	0.46
1:f:230:PHE:CD2	1:f:330:TYR:CE2	3.03	0.46
1:i:169:LYS:CD	1:i:343:ASN:HD22	2.25	0.46
1:j:94:TYR:HA	1:j:184:ARG:HD3	1.98	0.46
1:j:243:ASN:OD1	1:j:347:GLY:O	2.34	0.46
1:k:169:LYS:CD	1:k:343:ASN:HD22	2.25	0.46
1:l:157:MET:HE3	1:l:273:LEU:HD22	1.97	0.46
1:l:228:PHE:HE2	1:l:230:PHE:HE1	0.79	0.46
1:l:243:ASN:OD1	1:l:347:GLY:O	2.34	0.46
1:m:134:THR:OG1	1:m:288:ASN:HB2	2.16	0.46
1:m:243:ASN:OD1	1:m:347:GLY:O	2.34	0.46
1:n:76:THR:HB	1:n:77:PRO:HD2	1.98	0.46
1:n:230:PHE:CD2	1:n:330:TYR:CE2	3.03	0.46
1:o:76:THR:HB	1:o:77:PRO:HD2	1.98	0.46
1:r:230:PHE:CD2	1:r:330:TYR:CE2	3.03	0.46
1:t:134:THR:OG1	1:t:288:ASN:HB2	2.16	0.46
1:v:134:THR:OG1	1:v:288:ASN:HB2	2.16	0.46
1:v:143:GLY:O	1:v:144:THR:OG1	2.25	0.46
1:w:76:THR:HB	1:w:77:PRO:HD2	1.98	0.46
1:w:94:TYR:O	1:w:105:VAL:HG11	2.14	0.46
1:w:130:ASN:OD1	1:2:210:TYR:HD2	1.99	0.46
1:w:157:MET:HE3	1:w:273:LEU:HD22	1.98	0.46
1:w:230:PHE:CD2	1:w:330:TYR:CE2	3.03	0.46
1:x:84:PRO:O	1:x:87:VAL:HG12	2.14	0.46
1:y:243:ASN:OD1	1:y:347:GLY:O	2.34	0.46
1:2:76:THR:HB	1:2:77:PRO:HD2	1.98	0.46
1:B:94:TYR:HA	1:B:184:ARG:HD3	1.98	0.46
1:B:134:THR:OG1	1:B:288:ASN:HB2	2.16	0.46
1:B:169:LYS:CD	1:B:343:ASN:HD22	2.25	0.46
1:C:157:MET:HE3	1:C:273:LEU:HD22	1.97	0.46
1:D:117:LYS:HB2	1:D:117:LYS:HE3	1.73	0.46
1:D:309:GLN:HE22	1:D:320:PRO:HG3	1.81	0.46
1:H:260:VAL:HG12	1:H:328:GLN:CD	2.40	0.46
1:I:133:LEU:N	1:I:213:GLN:HE21	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:157:MET:HE3	1:J:273:LEU:HD22	1.97	0.46
1:L:243:ASN:OD1	1:L:347:GLY:O	2.34	0.46
1:M:134:THR:OG1	1:M:288:ASN:HB2	2.16	0.46
1:M:266:ARG:NH2	1:M:360:GLY:O	2.29	0.46
1:N:260:VAL:HG12	1:N:328:GLN:CD	2.40	0.46
1:N:270:GLY:HA2	1:N:346:PHE:CE1	2.47	0.46
1:O:159:HIS:CD2	1:O:220:PHE:CZ	3.04	0.46
1:P:80:MET:HG2	1:P:190:ALA:O	2.15	0.46
1:Q:84:PRO:O	1:Q:87:VAL:HG12	2.14	0.46
1:Q:182:SER:OG	1:Q:187:ASP:OD2	2.23	0.46
1:Q:243:ASN:OD1	1:Q:347:GLY:O	2.34	0.46
1:R:210:TYR:CE2	1:U:47:TRP:CZ3	3.04	0.46
1:S:47:TRP:CZ3	1:U:210:TYR:CE2	3.04	0.46
1:T:199:ILE:HG21	1:T:204:ILE:HD13	1.96	0.46
1:U:134:THR:OG1	1:U:288:ASN:HB2	2.16	0.46
1:V:94:TYR:O	1:V:105:VAL:HG11	2.14	0.46
1:V:243:ASN:OD1	1:V:347:GLY:O	2.34	0.46
1:W:47:TRP:CZ3	1:Y:210:TYR:CE2	3.04	0.46
1:W:134:THR:OG1	1:W:288:ASN:HB2	2.16	0.46
1:X:130:ASN:OD1	1:Y:210:TYR:HD2	1.98	0.46
1:7:170:VAL:HG12	1:7:178:TRP:HH2	1.79	0.46
1:6:80:MET:HG2	1:6:190:ALA:O	2.15	0.46
1:6:159:HIS:CD2	1:6:220:PHE:CZ	3.04	0.46
1:5:134:THR:OG1	1:5:288:ASN:HB2	2.16	0.46
1:4:76:THR:HB	1:4:77:PRO:HD2	1.98	0.46
1:3:80:MET:HG2	1:3:190:ALA:O	2.15	0.46
1:3:270:GLY:HA2	1:3:346:PHE:CE1	2.47	0.46
1:a:243:ASN:OD1	1:a:347:GLY:O	2.34	0.46
1:b:130:ASN:OD1	1:c:210:TYR:HD2	1.98	0.46
1:b:159:HIS:CD2	1:b:220:PHE:CZ	3.04	0.46
1:c:210:TYR:CE2	1:e:47:TRP:CZ3	3.04	0.46
1:d:76:THR:HB	1:d:77:PRO:HD2	1.98	0.46
1:d:260:VAL:HG12	1:d:328:GLN:CD	2.40	0.46
1:e:134:THR:OG1	1:e:288:ASN:HB2	2.16	0.46
1:e:199:ILE:HG21	1:e:204:ILE:HD13	1.96	0.46
1:h:243:ASN:OD1	1:h:347:GLY:O	2.34	0.46
1:i:134:THR:OG1	1:i:288:ASN:HB2	2.16	0.46
1:j:170:VAL:HG12	1:j:178:TRP:HH2	1.79	0.46
1:k:94:TYR:HA	1:k:184:ARG:HD3	1.98	0.46
1:k:134:THR:OG1	1:k:288:ASN:HB2	2.16	0.46
1:n:260:VAL:HG12	1:n:328:GLN:CD	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:243:ASN:OD1	1:o:347:GLY:O	2.34	0.46
1:q:80:MET:HG2	1:q:190:ALA:O	2.15	0.46
1:s:117:LYS:HE3	1:s:117:LYS:HB2	1.73	0.46
1:t:210:TYR:CE2	1:v:47:TRP:CZ3	3.04	0.46
1:v:130:ASN:OD1	1:w:210:TYR:HD2	1.98	0.46
1:w:134:THR:OG1	1:w:288:ASN:HB2	2.16	0.46
1:x:134:THR:OG1	1:x:288:ASN:HB2	2.16	0.46
1:x:159:HIS:CD2	1:x:220:PHE:CZ	3.04	0.46
1:z:309:GLN:HE22	1:z:320:PRO:HG3	1.81	0.46
1:1:159:HIS:CD2	1:1:220:PHE:CZ	3.04	0.46
1:1:260:VAL:HG12	1:1:328:GLN:CD	2.40	0.46
1:1:270:GLY:HA2	1:1:346:PHE:CE1	2.47	0.46
1:2:159:HIS:CD2	1:2:220:PHE:CZ	3.04	0.46
1:A:80:MET:HG2	1:A:190:ALA:O	2.15	0.46
1:B:159:HIS:CD2	1:B:220:PHE:CZ	3.04	0.46
1:C:94:TYR:HA	1:C:184:ARG:HD3	1.98	0.46
1:C:243:ASN:OD1	1:C:347:GLY:O	2.34	0.46
1:E:134:THR:OG1	1:E:288:ASN:HB2	2.16	0.46
1:E:157:MET:HE3	1:E:273:LEU:HD22	1.98	0.46
1:E:260:VAL:HG12	1:E:328:GLN:CD	2.40	0.46
1:G:80:MET:HG2	1:G:190:ALA:O	2.15	0.46
1:H:47:TRP:CZ3	1:W:210:TYR:CE2	3.04	0.46
1:I:130:ASN:OD1	1:J:210:TYR:HD2	1.98	0.46
1:I:159:HIS:CD2	1:I:220:PHE:CZ	3.04	0.46
1:J:133:LEU:N	1:J:213:GLN:HE21	1.97	0.46
1:J:159:HIS:CD2	1:J:220:PHE:CZ	3.04	0.46
1:K:47:TRP:CZ3	1:8:210:TYR:CE2	3.04	0.46
1:L:76:THR:HB	1:L:77:PRO:HD2	1.98	0.46
1:L:134:THR:OG1	1:L:288:ASN:HB2	2.16	0.46
1:N:159:HIS:CD2	1:N:220:PHE:CZ	3.04	0.46
1:O:228:PHE:HE2	1:O:230:PHE:HE1	0.79	0.46
1:O:243:ASN:OD1	1:O:347:GLY:O	2.34	0.46
1:O:260:VAL:HG12	1:O:328:GLN:CD	2.40	0.46
1:Q:134:THR:OG1	1:Q:288:ASN:HB2	2.16	0.46
1:S:80:MET:HG2	1:S:190:ALA:O	2.15	0.46
1:T:84:PRO:O	1:T:87:VAL:HG12	2.14	0.46
1:T:130:ASN:OD1	1:U:210:TYR:HD2	1.99	0.46
1:T:134:THR:OG1	1:T:288:ASN:HB2	2.16	0.46
1:T:157:MET:HE3	1:T:273:LEU:HD22	1.97	0.46
1:T:243:ASN:OD1	1:T:347:GLY:O	2.34	0.46
1:W:260:VAL:HG12	1:W:328:GLN:CD	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:159:HIS:CD2	1:X:220:PHE:CZ	3.04	0.46
1:8:243:ASN:OD1	1:8:347:GLY:O	2.34	0.46
1:7:159:HIS:CD2	1:7:220:PHE:CZ	3.04	0.46
1:6:170:VAL:HG12	1:6:178:TRP:HH2	1.79	0.46
1:4:80:MET:HG2	1:4:190:ALA:O	2.15	0.46
1:3:76:THR:HB	1:3:77:PRO:HD2	1.98	0.46
1:3:157:MET:HE3	1:3:273:LEU:HD22	1.97	0.46
1:c:159:HIS:CD2	1:c:220:PHE:CZ	3.04	0.46
1:d:47:TRP:CZ3	1:e:210:TYR:CE2	3.04	0.46
1:e:260:VAL:HG12	1:e:328:GLN:CD	2.40	0.46
1:f:76:THR:HB	1:f:77:PRO:HD2	1.98	0.46
1:f:260:VAL:HG12	1:f:328:GLN:CD	2.40	0.46
1:h:260:VAL:HG12	1:h:328:GLN:CD	2.40	0.46
1:j:157:MET:HE3	1:j:273:LEU:HD22	1.98	0.46
1:k:159:HIS:CD2	1:k:220:PHE:CZ	3.04	0.46
1:l:80:MET:HG2	1:l:190:ALA:O	2.15	0.46
1:l:134:THR:OG1	1:l:288:ASN:HB2	2.16	0.46
1:l:159:HIS:CD2	1:l:220:PHE:CZ	3.04	0.46
1:m:159:HIS:CD2	1:m:220:PHE:CZ	3.04	0.46
1:n:134:THR:OG1	1:n:288:ASN:HB2	2.16	0.46
1:n:159:HIS:CD2	1:n:220:PHE:CZ	3.04	0.46
1:o:134:THR:OG1	1:o:288:ASN:HB2	2.16	0.46
1:r:159:HIS:CD2	1:r:220:PHE:CZ	3.04	0.46
1:u:134:THR:OG1	1:u:288:ASN:HB2	2.16	0.46
1:v:243:ASN:OD1	1:v:347:GLY:O	2.34	0.46
1:x:80:MET:HG2	1:x:190:ALA:O	2.15	0.46
1:x:157:MET:HE3	1:x:273:LEU:HD22	1.97	0.46
1:y:86:ASN:O	1:y:239:VAL:HG12	2.14	0.46
1:y:159:HIS:CD2	1:y:220:PHE:CZ	3.04	0.46
1:z:323:ASP:O	1:z:327:ILE:N	2.40	0.46
1:1:94:TYR:O	1:1:105:VAL:HG11	2.14	0.46
1:2:243:ASN:OD1	1:2:347:GLY:O	2.34	0.46
1:A:243:ASN:OD1	1:A:347:GLY:O	2.34	0.46
1:C:76:THR:HB	1:C:77:PRO:HD2	1.98	0.46
1:D:230:PHE:CD2	1:D:330:TYR:CE2	3.03	0.46
1:E:159:HIS:CD2	1:E:220:PHE:CZ	3.04	0.46
1:H:130:ASN:OD1	1:I:210:TYR:HD2	1.99	0.46
1:H:309:GLN:HE22	1:H:320:PRO:HG3	1.81	0.46
1:I:243:ASN:OD1	1:I:347:GLY:O	2.34	0.46
1:J:134:THR:OG1	1:J:288:ASN:HB2	2.16	0.46
1:K:80:MET:HG2	1:K:190:ALA:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:159:HIS:CD2	1:P:220:PHE:CZ	3.04	0.46
1:R:134:THR:OG1	1:R:288:ASN:HB2	2.16	0.46
1:S:243:ASN:OD1	1:S:347:GLY:O	2.34	0.46
1:T:159:HIS:CD2	1:T:220:PHE:CZ	3.04	0.46
1:T:170:VAL:HG12	1:T:178:TRP:HH2	1.79	0.46
1:U:94:TYR:HA	1:U:184:ARG:HD3	1.98	0.46
1:X:228:PHE:HE2	1:X:230:PHE:HE1	0.79	0.46
1:Z:134:THR:OG1	1:Z:288:ASN:HB2	2.16	0.46
1:8:94:TYR:HA	1:8:184:ARG:HD3	1.98	0.46
1:7:80:MET:HG2	1:7:190:ALA:O	2.15	0.46
1:7:260:VAL:HG12	1:7:328:GLN:CD	2.40	0.46
1:5:80:MET:HG2	1:5:190:ALA:O	2.15	0.46
1:4:94:TYR:HA	1:4:184:ARG:HD3	1.98	0.46
1:4:309:GLN:HE22	1:4:320:PRO:HG3	1.81	0.46
1:3:94:TYR:HA	1:3:184:ARG:HD3	1.98	0.46
1:3:309:GLN:HE22	1:3:320:PRO:HG3	1.81	0.46
1:e:80:MET:HG2	1:e:190:ALA:O	2.15	0.46
1:g:47:TRP:CZ3	1:h:210:TYR:CE2	3.04	0.46
1:g:199:ILE:HG21	1:g:204:ILE:HD13	1.96	0.46
1:g:230:PHE:CD2	1:g:330:TYR:CE2	3.03	0.46
1:h:94:TYR:HA	1:h:184:ARG:HD3	1.98	0.46
1:i:46:VAL:HG21	1:j:218:LEU:HD21	1.98	0.46
1:i:182:SER:OG	1:i:187:ASP:OD2	2.23	0.46
1:j:76:THR:HB	1:j:77:PRO:HD2	1.98	0.46
1:l:210:TYR:HD2	1:r:130:ASN:OD1	1.98	0.46
1:m:76:THR:HB	1:m:77:PRO:HD2	1.98	0.46
1:n:157:MET:HE3	1:n:273:LEU:HD22	1.98	0.46
1:r:243:ASN:OD1	1:r:347:GLY:O	2.34	0.46
1:s:80:MET:HG2	1:s:190:ALA:O	2.15	0.46
1:s:243:ASN:OD1	1:s:347:GLY:O	2.34	0.46
1:t:210:TYR:HD2	1:x:130:ASN:OD1	1.99	0.46
1:x:94:TYR:HA	1:x:184:ARG:HD3	1.98	0.46
1:x:243:ASN:OD1	1:x:347:GLY:O	2.34	0.46
1:z:169:LYS:CD	1:z:343:ASN:HD22	2.25	0.46
1:z:230:PHE:CD2	1:z:330:TYR:CE2	3.03	0.46
1:C:159:HIS:CD2	1:C:220:PHE:CZ	3.04	0.46
1:F:130:ASN:OD1	1:G:210:TYR:HD2	1.99	0.46
1:F:134:THR:OG1	1:F:288:ASN:HB2	2.16	0.46
1:F:243:ASN:OD1	1:F:347:GLY:O	2.34	0.46
1:G:309:GLN:HE22	1:G:320:PRO:HG3	1.81	0.46
1:K:230:PHE:CD2	1:K:330:TYR:CE2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:309:GLN:HE22	1:K:320:PRO:HG3	1.81	0.46
1:L:159:HIS:CD2	1:L:220:PHE:CZ	3.04	0.46
1:L:323:ASP:O	1:L:327:ILE:N	2.40	0.46
1:M:210:TYR:HD2	1:6:130:ASN:OD1	1.98	0.46
1:P:94:TYR:HA	1:P:184:ARG:HD3	1.98	0.46
1:R:159:HIS:CD2	1:R:220:PHE:CZ	3.04	0.46
1:R:210:TYR:HD2	1:V:130:ASN:OD1	1.99	0.46
1:S:46:VAL:HG21	1:U:218:LEU:HD21	1.98	0.46
1:T:80:MET:HG2	1:T:190:ALA:O	2.15	0.46
1:T:94:TYR:HA	1:T:184:ARG:HD3	1.98	0.46
1:U:157:MET:HE3	1:U:273:LEU:HD22	1.97	0.46
1:W:228:PHE:HE2	1:W:230:PHE:HE1	0.79	0.46
1:Y:94:TYR:HA	1:Y:184:ARG:HD3	1.98	0.46
1:Y:159:HIS:CD2	1:Y:220:PHE:CZ	3.04	0.46
1:Z:260:VAL:HG12	1:Z:328:GLN:CD	2.40	0.46
1:8:260:VAL:HG12	1:8:328:GLN:CD	2.40	0.46
1:7:151:PHE:HE1	1:i:151:PHE:CE2	2.34	0.46
1:4:134:THR:OG1	1:4:288:ASN:HB2	2.16	0.46
1:4:157:MET:HE3	1:4:273:LEU:HD22	1.98	0.46
1:b:157:MET:HE3	1:b:273:LEU:HD22	1.97	0.46
1:c:94:TYR:HA	1:c:184:ARG:HD3	1.98	0.46
1:d:130:ASN:OD1	1:r:210:TYR:HD2	1.99	0.46
1:d:309:GLN:HE22	1:d:320:PRO:HG3	1.81	0.46
1:f:134:THR:OG1	1:f:288:ASN:HB2	2.16	0.46
1:f:243:ASN:OD1	1:f:347:GLY:O	2.34	0.46
1:g:80:MET:HG2	1:g:190:ALA:O	2.15	0.46
1:l:76:THR:HB	1:l:77:PRO:HD2	1.98	0.46
1:m:323:ASP:O	1:m:327:ILE:N	2.40	0.46
1:p:134:THR:OG1	1:p:288:ASN:HB2	2.16	0.46
1:q:170:VAL:HG12	1:q:178:TRP:HH2	1.80	0.46
1:t:218:LEU:HD21	1:v:46:VAL:HG21	1.98	0.46
1:u:159:HIS:CD2	1:u:220:PHE:CZ	3.04	0.46
1:v:80:MET:HG2	1:v:190:ALA:O	2.15	0.46
1:w:80:MET:HG2	1:w:190:ALA:O	2.15	0.46
1:x:170:VAL:HG12	1:x:178:TRP:HH2	1.79	0.46
1:y:94:TYR:HA	1:y:184:ARG:HD3	1.98	0.46
1:2:260:VAL:HG12	1:2:328:GLN:CD	2.40	0.46
1:A:159:HIS:CD2	1:A:220:PHE:CZ	3.04	0.46
1:B:260:VAL:HG12	1:B:328:GLN:CD	2.40	0.46
1:D:157:MET:HE3	1:D:273:LEU:HD22	1.98	0.46
1:D:210:TYR:CE2	1:P:47:TRP:CZ3	3.04	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:243:ASN:OD1	1:E:347:GLY:O	2.34	0.46
1:H:159:HIS:CD2	1:H:220:PHE:CZ	3.04	0.46
1:I:134:THR:OG1	1:I:288:ASN:HB2	2.16	0.46
1:J:76:THR:HB	1:J:77:PRO:HD2	1.98	0.46
1:K:130:ASN:OD1	1:L:210:TYR:HD2	1.99	0.46
1:M:159:HIS:CD2	1:M:220:PHE:CZ	3.04	0.46
1:M:182:SER:OG	1:M:187:ASP:OD2	2.23	0.46
1:N:182:SER:OG	1:N:187:ASP:OD2	2.23	0.46
1:S:143:GLY:O	1:S:144:THR:OG1	2.25	0.46
1:T:46:VAL:HG21	1:5:218:LEU:HD21	1.98	0.46
1:T:47:TRP:CZ3	1:5:210:TYR:CE2	3.04	0.46
1:V:46:VAL:HG21	1:4:218:LEU:HD21	1.98	0.46
1:W:80:MET:HG2	1:W:190:ALA:O	2.15	0.46
1:W:243:ASN:OD1	1:W:347:GLY:O	2.34	0.46
1:Z:243:ASN:OD1	1:Z:347:GLY:O	2.34	0.46
1:6:218:LEU:HD21	1:j:46:VAL:HG21	1.98	0.46
1:5:159:HIS:CD2	1:5:220:PHE:CZ	3.04	0.46
1:5:260:VAL:HG12	1:5:328:GLN:CD	2.40	0.46
1:3:134:THR:OG1	1:3:288:ASN:HB2	2.16	0.46
1:3:218:LEU:HD21	1:a:46:VAL:HG21	1.98	0.46
1:a:130:ASN:OD1	1:u:210:TYR:HD2	1.98	0.46
1:d:159:HIS:CD2	1:d:220:PHE:CZ	3.04	0.46
1:g:130:ASN:OD1	1:m:210:TYR:HD2	1.99	0.46
1:i:47:TRP:CZ3	1:j:210:TYR:CE2	3.04	0.46
1:i:159:HIS:CD2	1:i:220:PHE:CZ	3.04	0.46
1:j:130:ASN:OD1	1:k:210:TYR:HD2	1.99	0.46
1:k:260:VAL:HG12	1:k:328:GLN:CD	2.40	0.46
1:m:170:VAL:HG12	1:m:178:TRP:HH2	1.79	0.46
1:n:47:TRP:CZ3	1:o:210:TYR:CE2	3.04	0.46
1:n:243:ASN:OD1	1:n:347:GLY:O	2.34	0.46
1:p:243:ASN:OD1	1:p:347:GLY:O	2.34	0.46
1:q:309:GLN:HE22	1:q:320:PRO:HG3	1.81	0.46
1:r:133:LEU:N	1:r:213:GLN:HE21	1.97	0.46
1:s:159:HIS:CD2	1:s:220:PHE:CZ	3.04	0.46
1:t:157:MET:HE3	1:t:273:LEU:HD22	1.97	0.46
1:v:323:ASP:O	1:v:327:ILE:N	2.40	0.46
1:w:159:HIS:CD2	1:w:220:PHE:CZ	3.04	0.46
1:w:210:TYR:CE2	1:x:47:TRP:CZ3	3.04	0.46
1:w:218:LEU:HD21	1:x:46:VAL:HG21	1.98	0.46
1:y:47:TRP:CZ3	1:z:210:TYR:CE2	3.04	0.46
1:y:184:ARG:NH1	1:y:295:THR:OG1	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:179:PRO:O	1:E:188:TYR:OH	2.25	0.45
1:G:94:TYR:HA	1:G:184:ARG:HD3	1.98	0.45
1:H:169:LYS:CD	1:H:343:ASN:HD22	2.25	0.45
1:K:210:TYR:CE2	1:2:47:TRP:CZ3	3.04	0.45
1:L:170:VAL:HG12	1:L:178:TRP:HH2	1.79	0.45
1:O:47:TRP:CZ3	1:g:210:TYR:CE2	3.04	0.45
1:P:184:ARG:NH1	1:P:295:THR:OG1	2.40	0.45
1:S:157:MET:HE3	1:S:273:LEU:HD22	1.97	0.45
1:T:309:GLN:HE22	1:T:320:PRO:HG3	1.81	0.45
1:U:76:THR:HB	1:U:77:PRO:HD2	1.98	0.45
1:U:309:GLN:HE22	1:U:320:PRO:HG3	1.81	0.45
1:V:159:HIS:CD2	1:V:220:PHE:CZ	3.04	0.45
1:V:260:VAL:HG12	1:V:328:GLN:CD	2.40	0.45
1:W:159:HIS:CD2	1:W:220:PHE:CZ	3.04	0.45
1:Y:157:MET:HE3	1:Y:273:LEU:HD22	1.97	0.45
1:Y:323:ASP:O	1:Y:327:ILE:N	2.40	0.45
1:Z:76:THR:HB	1:Z:77:PRO:HD2	1.98	0.45
1:8:159:HIS:CD2	1:8:220:PHE:CZ	3.04	0.45
1:5:137:GLU:HG3	1:5:285:PHE:CE1	2.52	0.45
1:a:230:PHE:CD2	1:a:330:TYR:CE2	3.03	0.45
1:a:260:VAL:HG12	1:a:328:GLN:CD	2.40	0.45
1:b:137:GLU:HG3	1:b:285:PHE:CE1	2.52	0.45
1:e:159:HIS:CD2	1:e:220:PHE:CZ	3.04	0.45
1:g:309:GLN:HE22	1:g:320:PRO:HG3	1.81	0.45
1:i:323:ASP:O	1:i:327:ILE:N	2.40	0.45
1:j:159:HIS:CD2	1:j:220:PHE:CZ	3.04	0.45
1:l:133:LEU:N	1:l:213:GLN:HE21	1.97	0.45
1:o:137:GLU:HG3	1:o:285:PHE:CE1	2.52	0.45
1:q:94:TYR:HA	1:q:184:ARG:HD3	1.98	0.45
1:r:134:THR:OG1	1:r:288:ASN:HB2	2.16	0.45
1:t:76:THR:HB	1:t:77:PRO:HD2	1.98	0.45
1:t:94:TYR:HA	1:t:184:ARG:HD3	1.98	0.45
1:t:179:PRO:O	1:t:188:TYR:OH	2.25	0.45
1:v:157:MET:HE3	1:v:273:LEU:HD22	1.97	0.45
1:w:260:VAL:HG12	1:w:328:GLN:CD	2.40	0.45
1:x:309:GLN:HE22	1:x:320:PRO:HG3	1.81	0.45
1:z:117:LYS:HB2	1:z:117:LYS:HE3	1.73	0.45
1:z:157:MET:HE3	1:z:273:LEU:HD22	1.98	0.45
1:2:134:THR:OG1	1:2:288:ASN:HB2	2.16	0.45
1:B:210:TYR:CE2	1:L:47:TRP:CZ3	3.04	0.45
1:B:210:TYR:HD2	1:C:130:ASN:OD1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:309:GLN:HE22	1:B:320:PRO:HG3	1.81	0.45
1:C:137:GLU:HG3	1:C:285:PHE:CE1	2.52	0.45
1:D:169:LYS:CD	1:D:343:ASN:HD22	2.25	0.45
1:D:323:ASP:O	1:D:327:ILE:N	2.40	0.45
1:E:47:TRP:CZ3	1:Q:210:TYR:CE2	3.05	0.45
1:G:243:ASN:OD1	1:G:347:GLY:O	2.34	0.45
1:J:47:TRP:CZ3	1:L:210:TYR:CE2	3.04	0.45
1:Q:80:MET:HG2	1:Q:190:ALA:O	2.15	0.45
1:Q:137:GLU:HG3	1:Q:285:PHE:CE1	2.52	0.45
1:T:210:TYR:CE2	1:f:47:TRP:CZ3	3.04	0.45
1:V:230:PHE:CD2	1:V:330:TYR:CE2	3.03	0.45
1:W:309:GLN:HE22	1:W:320:PRO:HG3	1.81	0.45
1:X:137:GLU:HG3	1:X:285:PHE:CE1	2.52	0.45
1:X:157:MET:HE3	1:X:273:LEU:HD22	1.98	0.45
1:Z:47:TRP:CZ3	1:x:210:TYR:CE2	3.04	0.45
1:8:137:GLU:HG3	1:8:285:PHE:CE1	2.52	0.45
1:a:159:HIS:CD2	1:a:220:PHE:CZ	3.04	0.45
1:a:309:GLN:HE22	1:a:320:PRO:HG3	1.81	0.45
1:c:157:MET:HE3	1:c:273:LEU:HD22	1.98	0.45
1:c:323:ASP:O	1:c:327:ILE:N	2.40	0.45
1:d:157:MET:HE3	1:d:273:LEU:HD22	1.97	0.45
1:e:243:ASN:OD1	1:e:347:GLY:O	2.34	0.45
1:h:137:GLU:HG3	1:h:285:PHE:CE1	2.52	0.45
1:h:159:HIS:CD2	1:h:220:PHE:CZ	3.04	0.45
1:i:130:ASN:OD1	1:1:210:TYR:HD2	1.98	0.45
1:j:137:GLU:HG3	1:j:285:PHE:CE1	2.52	0.45
1:k:76:THR:HB	1:k:77:PRO:HD2	1.98	0.45
1:k:309:GLN:HE22	1:k:320:PRO:HG3	1.81	0.45
1:n:167:LEU:HD23	1:n:170:VAL:HG22	1.99	0.45
1:o:80:MET:HG2	1:o:190:ALA:O	2.15	0.45
1:p:159:HIS:CD2	1:p:220:PHE:CZ	3.04	0.45
1:p:230:PHE:CD2	1:p:330:TYR:CE2	3.03	0.45
1:q:46:VAL:HG21	1:r:218:LEU:HD21	1.98	0.45
1:t:159:HIS:CD2	1:t:220:PHE:CZ	3.04	0.45
1:t:309:GLN:HE22	1:t:320:PRO:HG3	1.81	0.45
1:u:309:GLN:HE22	1:u:320:PRO:HG3	1.81	0.45
1:w:137:GLU:HG3	1:w:285:PHE:CE1	2.52	0.45
1:1:243:ASN:OD1	1:1:347:GLY:O	2.34	0.45
1:2:80:MET:HG2	1:2:190:ALA:O	2.15	0.45
1:C:134:THR:OG1	1:C:288:ASN:HB2	2.16	0.45
1:C:182:SER:OG	1:C:187:ASP:OD2	2.23	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:210:TYR:CE2	1:M:47:TRP:CZ3	3.04	0.45
1:E:94:TYR:HA	1:E:184:ARG:HD3	1.98	0.45
1:E:167:LEU:HD23	1:E:170:VAL:HG22	1.99	0.45
1:E:218:LEU:HD21	1:F:46:VAL:HG21	1.98	0.45
1:F:159:HIS:CD2	1:F:220:PHE:CZ	3.04	0.45
1:F:230:PHE:CD2	1:F:330:TYR:CE2	3.03	0.45
1:G:46:VAL:HG21	1:I:218:LEU:HD21	1.98	0.45
1:G:76:THR:HB	1:G:77:PRO:HD2	1.98	0.45
1:H:134:THR:OG1	1:H:288:ASN:HB2	2.16	0.45
1:H:157:MET:HE3	1:H:273:LEU:HD22	1.97	0.45
1:J:169:LYS:CD	1:J:343:ASN:HD22	2.25	0.45
1:K:167:LEU:HD23	1:K:170:VAL:HG22	1.99	0.45
1:K:218:LEU:HD21	1:2:46:VAL:HG21	1.98	0.45
1:N:243:ASN:OD1	1:N:347:GLY:O	2.34	0.45
1:O:134:THR:OG1	1:O:288:ASN:HB2	2.16	0.45
1:Q:157:MET:HE3	1:Q:273:LEU:HD22	1.98	0.45
1:Q:167:LEU:HD23	1:Q:170:VAL:HG22	1.99	0.45
1:T:167:LEU:HD23	1:T:170:VAL:HG22	1.99	0.45
1:V:157:MET:HE3	1:V:273:LEU:HD22	1.97	0.45
1:V:309:GLN:HE22	1:V:320:PRO:HG3	1.81	0.45
1:Z:137:GLU:HG3	1:Z:285:PHE:CE1	2.52	0.45
1:3:47:TRP:CZ3	1:b:210:TYR:CE2	3.04	0.45
1:c:309:GLN:HE22	1:c:320:PRO:HG3	1.81	0.45
1:d:134:THR:OG1	1:d:288:ASN:HB2	2.16	0.45
1:e:309:GLN:HE22	1:e:320:PRO:HG3	1.81	0.45
1:g:167:LEU:HD23	1:g:170:VAL:HG22	1.99	0.45
1:j:134:THR:OG1	1:j:288:ASN:HB2	2.16	0.45
1:k:210:TYR:CE2	1:m:47:TRP:CZ3	3.04	0.45
1:l:47:TRP:CZ3	1:m:210:TYR:CE2	3.04	0.45
1:l:169:LYS:CD	1:l:343:ASN:HD22	2.25	0.45
1:o:157:MET:HE3	1:o:273:LEU:HD22	1.98	0.45
1:q:76:THR:HB	1:q:77:PRO:HD2	1.98	0.45
1:q:243:ASN:OD1	1:q:347:GLY:O	2.34	0.45
1:s:137:GLU:HG3	1:s:285:PHE:CE1	2.52	0.45
1:u:46:VAL:HG21	1:v:218:LEU:HD21	1.99	0.45
1:v:137:GLU:HG3	1:v:285:PHE:CE1	2.51	0.45
1:A:137:GLU:HG3	1:A:285:PHE:CE1	2.52	0.45
1:B:47:TRP:CZ3	1:J:210:TYR:CE2	3.04	0.45
1:B:76:THR:HB	1:B:77:PRO:HD2	1.98	0.45
1:C:46:VAL:HG21	1:7:218:LEU:HD21	1.99	0.45
1:G:159:HIS:CD2	1:G:220:PHE:CZ	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:117:LYS:HB2	1:I:117:LYS:HE3	1.73	0.45
1:K:46:VAL:HG21	1:8:218:LEU:HD21	1.98	0.45
1:K:243:ASN:OD1	1:K:347:GLY:O	2.34	0.45
1:M:137:GLU:HG3	1:M:285:PHE:CE1	2.52	0.45
1:O:46:VAL:HG21	1:g:218:LEU:HD21	1.99	0.45
1:O:80:MET:HG2	1:O:190:ALA:O	2.15	0.45
1:O:182:SER:OG	1:O:187:ASP:OD2	2.23	0.45
1:R:46:VAL:HG21	1:S:218:LEU:HD21	1.99	0.45
1:R:309:GLN:HE22	1:R:320:PRO:HG3	1.81	0.45
1:S:137:GLU:HG3	1:S:285:PHE:CE1	2.52	0.45
1:S:323:ASP:O	1:S:327:ILE:N	2.40	0.45
1:U:159:HIS:CD2	1:U:220:PHE:CZ	3.04	0.45
1:Z:159:HIS:CD2	1:Z:220:PHE:CZ	3.04	0.45
1:Z:309:GLN:HE22	1:Z:320:PRO:HG3	1.81	0.45
1:6:143:GLY:O	1:6:144:THR:OG1	2.25	0.45
1:b:243:ASN:OD1	1:b:347:GLY:O	2.34	0.45
1:b:260:VAL:HG12	1:b:328:GLN:CD	2.40	0.45
1:d:169:LYS:CD	1:d:343:ASN:HD22	2.25	0.45
1:e:210:TYR:HD2	1:q:130:ASN:OD1	1.99	0.45
1:f:137:GLU:HG3	1:f:285:PHE:CE1	2.52	0.45
1:f:159:HIS:CD2	1:f:220:PHE:CZ	3.04	0.45
1:f:309:GLN:HE22	1:f:320:PRO:HG3	1.81	0.45
1:g:243:ASN:OD1	1:g:347:GLY:O	2.34	0.45
1:h:117:LYS:HB2	1:h:117:LYS:HE3	1.73	0.45
1:i:137:GLU:HG3	1:i:285:PHE:CE1	2.52	0.45
1:k:47:TRP:CZ3	1:l:210:TYR:CE2	3.04	0.45
1:n:94:TYR:HA	1:n:184:ARG:HD3	1.98	0.45
1:q:159:HIS:CD2	1:q:220:PHE:CZ	3.04	0.45
1:t:167:LEU:HD23	1:t:170:VAL:HG22	1.99	0.45
1:w:94:TYR:HA	1:w:184:ARG:HD3	1.98	0.45
1:x:167:LEU:HD23	1:x:170:VAL:HG22	1.99	0.45
1:y:157:MET:HE3	1:y:273:LEU:HD22	1.97	0.45
1:z:159:HIS:CD2	1:z:220:PHE:CZ	3.04	0.45
1:D:159:HIS:CD2	1:D:220:PHE:CZ	3.04	0.45
1:I:270:GLY:HA2	1:I:346:PHE:CE1	2.47	0.45
1:K:159:HIS:CD2	1:K:220:PHE:CZ	3.04	0.45
1:L:167:LEU:HD23	1:L:170:VAL:HG22	1.99	0.45
1:M:130:ASN:OD1	1:N:210:TYR:HD2	1.98	0.45
1:M:243:ASN:OD1	1:M:347:GLY:O	2.34	0.45
1:M:323:ASP:O	1:M:327:ILE:N	2.40	0.45
1:N:46:VAL:HG21	1:P:218:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:137:GLU:HG3	1:N:285:PHE:CE1	2.52	0.45
1:O:137:GLU:HG3	1:O:285:PHE:CE1	2.52	0.45
1:P:157:MET:HE3	1:P:273:LEU:HD22	1.97	0.45
1:R:169:LYS:CD	1:R:343:ASN:HD22	2.25	0.45
1:U:167:LEU:HD23	1:U:170:VAL:HG22	1.99	0.45
1:U:243:ASN:OD1	1:U:347:GLY:O	2.34	0.45
1:W:167:LEU:HD23	1:W:170:VAL:HG22	1.99	0.45
1:X:210:TYR:CE2	1:4:47:TRP:CZ3	3.04	0.45
1:X:260:VAL:HG12	1:X:328:GLN:CD	2.40	0.45
1:Y:80:MET:HG2	1:Y:190:ALA:O	2.15	0.45
1:Z:157:MET:HE3	1:Z:273:LEU:HD22	1.98	0.45
1:Z:184:ARG:NH1	1:Z:295:THR:OG1	2.40	0.45
1:Z:278:ILE:HG12	1:8:290:GLN:OE1	2.17	0.45
1:6:134:THR:OG1	1:6:288:ASN:HB2	2.16	0.45
1:5:94:TYR:HA	1:5:184:ARG:HD3	1.98	0.45
1:5:243:ASN:OD1	1:5:347:GLY:O	2.34	0.45
1:a:157:MET:HE3	1:a:273:LEU:HD22	1.97	0.45
1:f:157:MET:HE3	1:f:273:LEU:HD22	1.97	0.45
1:f:278:ILE:HG12	1:h:290:GLN:OE1	2.17	0.45
1:h:157:MET:HE3	1:h:273:LEU:HD22	1.98	0.45
1:m:137:GLU:HG3	1:m:285:PHE:CE1	2.51	0.45
1:o:167:LEU:HD23	1:o:170:VAL:HG22	1.99	0.45
1:o:228:PHE:HE2	1:o:230:PHE:HE1	0.79	0.45
1:p:309:GLN:HE22	1:p:320:PRO:HG3	1.81	0.45
1:r:117:LYS:HB2	1:r:117:LYS:HE3	1.73	0.45
1:t:243:ASN:OD1	1:t:347:GLY:O	2.34	0.45
1:u:169:LYS:CD	1:u:343:ASN:HD22	2.25	0.45
1:v:76:THR:HB	1:v:77:PRO:HD2	1.98	0.45
1:w:243:ASN:OD1	1:w:347:GLY:O	2.34	0.45
1:A:157:MET:HE3	1:A:273:LEU:HD22	1.97	0.45
1:D:210:TYR:HD2	1:E:130:ASN:OD1	1.99	0.45
1:F:210:TYR:CE2	1:Q:47:TRP:CZ3	3.04	0.45
1:G:130:ASN:OD1	1:W:210:TYR:HD2	1.99	0.45
1:G:137:GLU:HG3	1:G:285:PHE:CE1	2.52	0.45
1:H:137:GLU:HG3	1:H:285:PHE:CE1	2.52	0.45
1:J:309:GLN:HE22	1:J:320:PRO:HG3	1.81	0.45
1:L:309:GLN:HE22	1:L:320:PRO:HG3	1.81	0.45
1:M:167:LEU:HD23	1:M:170:VAL:HG22	1.99	0.45
1:N:157:MET:HE3	1:N:273:LEU:HD22	1.98	0.45
1:P:167:LEU:HD23	1:P:170:VAL:HG22	1.99	0.45
1:Q:228:PHE:HE2	1:Q:230:PHE:HE1	0.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:76:THR:HB	1:S:77:PRO:HD2	1.98	0.45
1:S:117:LYS:HE3	1:S:117:LYS:HB2	1.73	0.45
1:X:210:TYR:HD2	1:3:130:ASN:OD1	1.98	0.45
1:Y:167:LEU:HD23	1:Y:170:VAL:HG22	1.99	0.45
1:Z:117:LYS:HB2	1:Z:117:LYS:HE3	1.73	0.45
1:8:47:TRP:CZ3	1:2:210:TYR:CE2	3.05	0.45
1:8:157:MET:HE3	1:8:273:LEU:HD22	1.98	0.45
1:8:167:LEU:HD23	1:8:170:VAL:HG22	1.99	0.45
1:6:167:LEU:HD23	1:6:170:VAL:HG22	1.99	0.45
1:6:209:ARG:CB	1:j:46:VAL:CG1	2.84	0.45
1:4:130:ASN:OD1	1:b:210:TYR:HD2	1.98	0.45
1:4:159:HIS:CD2	1:4:220:PHE:CZ	3.04	0.45
1:3:159:HIS:CD2	1:3:220:PHE:CZ	3.04	0.45
1:a:210:TYR:HD2	1:e:130:ASN:OD1	1.99	0.45
1:c:80:MET:HG2	1:c:190:ALA:O	2.15	0.45
1:e:167:LEU:HD23	1:e:170:VAL:HG22	1.99	0.45
1:e:228:PHE:HE2	1:e:230:PHE:HE1	0.79	0.45
1:g:46:VAL:HG21	1:h:218:LEU:HD21	1.98	0.45
1:g:134:THR:OG1	1:g:288:ASN:HB2	2.16	0.45
1:i:167:LEU:HD23	1:i:170:VAL:HG22	1.99	0.45
1:i:243:ASN:OD1	1:i:347:GLY:O	2.34	0.45
1:j:182:SER:OG	1:j:187:ASP:OD2	2.23	0.45
1:k:218:LEU:HD21	1:m:46:VAL:HG21	1.99	0.45
1:l:309:GLN:HE22	1:l:320:PRO:HG3	1.81	0.45
1:m:167:LEU:HD23	1:m:170:VAL:HG22	1.99	0.45
1:o:323:ASP:O	1:o:327:ILE:N	2.40	0.45
1:s:157:MET:HE3	1:s:273:LEU:HD22	1.97	0.45
1:v:167:LEU:HD23	1:v:170:VAL:HG22	1.99	0.45
1:y:218:LEU:HD21	1:1:46:VAL:HG21	1.99	0.45
1:1:137:GLU:HG3	1:1:285:PHE:CE1	2.52	0.45
1:1:157:MET:HE3	1:1:273:LEU:HD22	1.98	0.45
1:2:137:GLU:HG3	1:2:285:PHE:CE1	2.52	0.45
1:B:137:GLU:HG3	1:B:285:PHE:CE1	2.52	0.45
1:B:218:LEU:HD21	1:L:46:VAL:HG21	1.99	0.45
1:B:243:ASN:OD1	1:B:347:GLY:O	2.34	0.45
1:C:46:VAL:CG1	1:7:209:ARG:CB	2.84	0.45
1:D:184:ARG:NH1	1:D:295:THR:OG1	2.40	0.45
1:G:157:MET:HE3	1:G:273:LEU:HD22	1.98	0.45
1:J:167:LEU:HD23	1:J:170:VAL:HG22	1.99	0.45
1:K:134:THR:OG1	1:K:288:ASN:HB2	2.16	0.45
1:L:137:GLU:HG3	1:L:285:PHE:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:95:ASN:HB3	1:M:181:SER:O	2.17	0.45
1:O:210:TYR:CE2	1:h:47:TRP:CZ3	3.05	0.45
1:Q:159:HIS:CD2	1:Q:220:PHE:CZ	3.04	0.45
1:S:167:LEU:HD23	1:S:170:VAL:HG22	1.99	0.45
1:T:137:GLU:HG3	1:T:285:PHE:CE1	2.52	0.45
1:V:94:TYR:HA	1:V:184:ARG:HD3	1.98	0.45
1:V:210:TYR:HD2	1:W:130:ASN:OD1	1.99	0.45
1:X:243:ASN:OD1	1:X:347:GLY:O	2.34	0.45
1:X:309:GLN:HE22	1:X:320:PRO:HG3	1.81	0.45
1:Y:309:GLN:HE22	1:Y:320:PRO:HG3	1.81	0.45
1:Z:46:VAL:HG21	1:x:218:LEU:HD21	1.98	0.45
1:8:350:CYS:SG	1:8:353:VAL:HG23	2.57	0.45
1:7:134:THR:OG1	1:7:288:ASN:HB2	2.16	0.45
1:7:167:LEU:HD23	1:7:170:VAL:HG22	1.99	0.45
1:4:167:LEU:HD23	1:4:170:VAL:HG22	1.99	0.45
1:3:167:LEU:HD23	1:3:170:VAL:HG22	1.99	0.45
1:a:94:TYR:HA	1:a:184:ARG:HD3	1.98	0.45
1:b:134:THR:OG1	1:b:288:ASN:HB2	2.16	0.45
1:b:309:GLN:HE22	1:b:320:PRO:HG3	1.81	0.45
1:c:167:LEU:HD23	1:c:170:VAL:HG22	1.99	0.45
1:e:143:GLY:O	1:e:144:THR:OG1	2.25	0.45
1:f:184:ARG:NH1	1:f:295:THR:OG1	2.40	0.45
1:g:76:THR:HB	1:g:77:PRO:HD2	1.98	0.45
1:g:159:HIS:CD2	1:g:220:PHE:CZ	3.04	0.45
1:h:167:LEU:HD23	1:h:170:VAL:HG22	1.99	0.45
1:h:350:CYS:SG	1:h:353:VAL:HG23	2.57	0.45
1:k:157:MET:HE3	1:k:273:LEU:HD22	1.97	0.45
1:k:243:ASN:OD1	1:k:347:GLY:O	2.34	0.45
1:l:167:LEU:HD23	1:l:170:VAL:HG22	1.99	0.45
1:n:46:VAL:HG21	1:o:218:LEU:HD21	1.98	0.45
1:n:130:ASN:OD1	1:z:210:TYR:HD2	1.99	0.45
1:o:159:HIS:CD2	1:o:220:PHE:CZ	3.04	0.45
1:q:137:GLU:HG3	1:q:285:PHE:CE1	2.52	0.45
1:q:157:MET:HE3	1:q:273:LEU:HD22	1.97	0.45
1:r:94:TYR:HA	1:r:184:ARG:HD3	1.98	0.45
1:s:323:ASP:O	1:s:327:ILE:N	2.40	0.45
1:v:94:TYR:HA	1:v:184:ARG:HD3	1.98	0.45
1:v:290:GLN:OE1	1:w:278:ILE:HG12	2.17	0.45
1:y:309:GLN:HE22	1:y:320:PRO:HG3	1.81	0.45
1:1:167:LEU:HD23	1:1:170:VAL:HG22	1.99	0.45
1:A:94:TYR:HA	1:A:184:ARG:HD3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:MET:HE3	1:B:273:LEU:HD22	1.97	0.45
1:C:167:LEU:HD23	1:C:170:VAL:HG22	1.99	0.45
1:D:95:ASN:HB3	1:D:181:SER:O	2.17	0.45
1:F:167:LEU:HD23	1:F:170:VAL:HG22	1.99	0.45
1:F:309:GLN:HE22	1:F:320:PRO:HG3	1.81	0.45
1:H:210:TYR:CE2	1:Y:47:TRP:CZ3	3.04	0.45
1:H:243:ASN:OD1	1:H:347:GLY:O	2.34	0.45
1:I:94:TYR:HA	1:I:184:ARG:HD3	1.98	0.45
1:K:76:THR:HB	1:K:77:PRO:HD2	1.98	0.45
1:N:167:LEU:HD23	1:N:170:VAL:HG22	1.99	0.45
1:O:94:TYR:HA	1:O:184:ARG:HD3	1.98	0.45
1:P:134:THR:OG1	1:P:288:ASN:HB2	2.16	0.45
1:P:137:GLU:HG3	1:P:285:PHE:CE1	2.52	0.45
1:P:309:GLN:HE22	1:P:320:PRO:HG3	1.81	0.45
1:Q:290:GLN:OE1	1:S:278:ILE:HG12	2.17	0.45
1:Q:323:ASP:O	1:Q:327:ILE:N	2.40	0.45
1:R:94:TYR:HA	1:R:184:ARG:HD3	1.98	0.45
1:S:94:TYR:HA	1:S:184:ARG:HD3	1.98	0.45
1:T:218:LEU:HD21	1:f:46:VAL:HG21	1.98	0.45
1:V:210:TYR:CE2	1:X:47:TRP:CZ3	3.04	0.45
1:X:134:THR:OG1	1:X:288:ASN:HB2	2.16	0.45
1:3:184:ARG:NH1	1:3:295:THR:OG1	2.40	0.45
1:a:210:TYR:CE2	1:b:47:TRP:CZ3	3.04	0.45
1:d:137:GLU:HG3	1:d:285:PHE:CE1	2.52	0.45
1:g:137:GLU:HG3	1:g:285:PHE:CE1	2.52	0.45
1:h:76:THR:HB	1:h:77:PRO:HD2	1.98	0.45
1:j:95:ASN:HB3	1:j:181:SER:O	2.17	0.45
1:j:323:ASP:O	1:j:327:ILE:N	2.40	0.45
1:k:137:GLU:HG3	1:k:285:PHE:CE1	2.52	0.45
1:m:309:GLN:HE22	1:m:320:PRO:HG3	1.81	0.45
1:n:323:ASP:O	1:n:327:ILE:N	2.40	0.45
1:o:47:TRP:CZ3	1:p:210:TYR:CE2	3.04	0.45
1:o:290:GLN:OE1	1:v:278:ILE:HG12	2.17	0.45
1:r:270:GLY:HA2	1:r:346:PHE:CE1	2.47	0.45
1:s:76:THR:HB	1:s:77:PRO:HD2	1.98	0.45
1:s:143:GLY:O	1:s:144:THR:OG1	2.25	0.45
1:s:350:CYS:SG	1:s:353:VAL:HG23	2.57	0.45
1:u:94:TYR:HA	1:u:184:ARG:HD3	1.98	0.45
1:w:350:CYS:SG	1:w:353:VAL:HG23	2.57	0.45
1:x:137:GLU:HG3	1:x:285:PHE:CE1	2.52	0.45
1:y:137:GLU:HG3	1:y:285:PHE:CE1	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:94:TYR:HA	1:2:184:ARG:HD3	1.98	0.45
1:A:143:GLY:O	1:A:144:THR:OG1	2.25	0.45
1:C:95:ASN:HB3	1:C:181:SER:O	2.17	0.45
1:E:46:VAL:HG21	1:Q:218:LEU:HD21	1.98	0.45
1:E:159:HIS:NE2	1:E:271:HIS:HD2	2.15	0.45
1:F:94:TYR:HA	1:F:184:ARG:HD3	1.98	0.45
1:G:323:ASP:O	1:G:327:ILE:N	2.40	0.45
1:K:117:LYS:HE3	1:K:117:LYS:HB2	1.73	0.45
1:K:137:GLU:HG3	1:K:285:PHE:CE1	2.52	0.45
1:L:94:TYR:HA	1:L:184:ARG:HD3	1.98	0.45
1:L:350:CYS:SG	1:L:353:VAL:HG23	2.57	0.45
1:Q:95:ASN:HB3	1:Q:181:SER:O	2.17	0.45
1:R:350:CYS:SG	1:R:353:VAL:HG23	2.57	0.45
1:S:159:HIS:CD2	1:S:220:PHE:CZ	3.04	0.45
1:T:350:CYS:SG	1:T:353:VAL:HG23	2.57	0.45
1:V:137:GLU:HG3	1:V:285:PHE:CE1	2.52	0.45
1:V:218:LEU:HD21	1:X:46:VAL:HG21	1.98	0.45
1:Z:159:HIS:NE2	1:Z:271:HIS:HD2	2.15	0.45
1:8:76:THR:HB	1:8:77:PRO:HD2	1.98	0.45
1:8:134:THR:OG1	1:8:288:ASN:HB2	2.16	0.45
1:8:159:HIS:NE2	1:8:271:HIS:HD2	2.15	0.45
1:7:243:ASN:OD1	1:7:347:GLY:O	2.34	0.45
1:6:243:ASN:OD1	1:6:347:GLY:O	2.34	0.45
1:a:137:GLU:HG3	1:a:285:PHE:CE1	2.52	0.45
1:a:218:LEU:HD21	1:b:46:VAL:HG21	1.98	0.45
1:c:47:TRP:CZ3	1:d:210:TYR:CE2	3.04	0.45
1:c:137:GLU:HG3	1:c:285:PHE:CE1	2.52	0.45
1:d:243:ASN:OD1	1:d:347:GLY:O	2.34	0.45
1:e:137:GLU:HG3	1:e:285:PHE:CE1	2.52	0.45
1:e:350:CYS:SG	1:e:353:VAL:HG23	2.57	0.45
1:f:350:CYS:SG	1:f:353:VAL:HG23	2.57	0.45
1:g:95:ASN:HB3	1:g:181:SER:O	2.17	0.45
1:h:134:THR:OG1	1:h:288:ASN:HB2	2.16	0.45
1:i:95:ASN:HB3	1:i:181:SER:O	2.17	0.45
1:i:117:LYS:HB2	1:i:117:LYS:HE3	1.73	0.45
1:j:309:GLN:HE22	1:j:320:PRO:HG3	1.81	0.45
1:m:350:CYS:SG	1:m:353:VAL:HG23	2.57	0.45
1:n:218:LEU:HD21	1:p:46:VAL:HG21	1.99	0.45
1:p:94:TYR:HA	1:p:184:ARG:HD3	1.98	0.45
1:p:167:LEU:HD23	1:p:170:VAL:HG22	1.99	0.45
1:q:323:ASP:O	1:q:327:ILE:N	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:167:LEU:HD23	1:r:170:VAL:HG22	1.99	0.45
1:s:94:TYR:HA	1:s:184:ARG:HD3	1.98	0.45
1:s:184:ARG:NH1	1:s:295:THR:OG1	2.40	0.45
1:v:159:HIS:CD2	1:v:220:PHE:CZ	3.04	0.45
1:w:309:GLN:HE22	1:w:320:PRO:HG3	1.81	0.45
1:x:350:CYS:SG	1:x:353:VAL:HG23	2.57	0.45
1:y:76:THR:HB	1:y:77:PRO:HD2	1.98	0.45
1:y:134:THR:OG1	1:y:288:ASN:HB2	2.16	0.45
1:y:167:LEU:HD23	1:y:170:VAL:HG22	1.99	0.45
1:z:95:ASN:HB3	1:z:181:SER:O	2.17	0.45
1:2:182:SER:OG	1:2:187:ASP:OD2	2.23	0.45
1:A:323:ASP:O	1:A:327:ILE:N	2.40	0.45
1:A:350:CYS:SG	1:A:353:VAL:HG23	2.57	0.45
1:D:126:TYR:OH	1:D:271:HIS:CD2	2.70	0.45
1:E:270:GLY:HA2	1:E:346:PHE:CE1	2.47	0.45
1:G:159:HIS:NE2	1:G:271:HIS:HD2	2.15	0.45
1:I:350:CYS:SG	1:I:353:VAL:HG23	2.57	0.45
1:K:95:ASN:HB3	1:K:181:SER:O	2.17	0.45
1:O:278:ILE:HG12	1:5:290:GLN:OE1	2.17	0.45
1:P:76:THR:HB	1:P:77:PRO:HD2	1.97	0.45
1:R:137:GLU:HG3	1:R:285:PHE:CE1	2.52	0.45
1:S:290:GLN:OE1	1:5:278:ILE:HG12	2.17	0.45
1:W:137:GLU:HG3	1:W:285:PHE:CE1	2.52	0.45
1:W:350:CYS:SG	1:W:353:VAL:HG23	2.57	0.45
1:Y:134:THR:OG1	1:Y:288:ASN:HB2	2.16	0.45
1:Y:137:GLU:HG3	1:Y:285:PHE:CE1	2.52	0.45
1:Z:350:CYS:SG	1:Z:353:VAL:HG23	2.57	0.45
1:7:143:GLY:O	1:7:144:THR:OG1	2.25	0.45
1:7:309:GLN:HE22	1:7:320:PRO:HG3	1.81	0.45
1:6:95:ASN:HB3	1:6:181:SER:O	2.17	0.45
1:5:309:GLN:HE22	1:5:320:PRO:HG3	1.81	0.45
1:5:350:CYS:SG	1:5:353:VAL:HG23	2.57	0.45
1:4:350:CYS:SG	1:4:353:VAL:HG23	2.57	0.45
1:c:218:LEU:HD21	1:e:46:VAL:HG21	1.99	0.45
1:d:159:HIS:NE2	1:d:271:HIS:HD2	2.15	0.45
1:f:117:LYS:HE3	1:f:117:LYS:HB2	1.73	0.45
1:f:159:HIS:NE2	1:f:271:HIS:HD2	2.15	0.45
1:h:159:HIS:NE2	1:h:271:HIS:HD2	2.15	0.45
1:i:126:TYR:OH	1:i:271:HIS:CD2	2.70	0.45
1:i:350:CYS:SG	1:i:353:VAL:HG23	2.57	0.45
1:j:210:TYR:HD2	1:z:130:ASN:OD1	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:94:TYR:HA	1:m:184:ARG:HD3	1.98	0.45
1:m:159:HIS:NE2	1:m:271:HIS:HD2	2.15	0.45
1:n:159:HIS:NE2	1:n:271:HIS:HD2	2.15	0.45
1:o:95:ASN:HB3	1:o:181:SER:O	2.17	0.45
1:r:309:GLN:HE22	1:r:320:PRO:HG3	1.81	0.45
1:r:350:CYS:SG	1:r:353:VAL:HG23	2.57	0.45
1:u:350:CYS:SG	1:u:353:VAL:HG23	2.57	0.45
1:z:126:TYR:OH	1:z:271:HIS:CD2	2.70	0.45
1:1:134:THR:OG1	1:1:288:ASN:HB2	2.16	0.45
1:A:76:THR:HB	1:A:77:PRO:HD2	1.98	0.44
1:A:167:LEU:HD23	1:A:170:VAL:HG22	1.99	0.44
1:C:210:TYR:HD2	1:D:130:ASN:OD1	1.99	0.44
1:D:167:LEU:HD23	1:D:170:VAL:HG22	1.99	0.44
1:E:137:GLU:HG3	1:E:285:PHE:CE1	2.52	0.44
1:E:323:ASP:O	1:E:327:ILE:N	2.40	0.44
1:F:105:VAL:O	1:F:105:VAL:HG12	2.18	0.44
1:F:117:LYS:HE3	1:F:117:LYS:HB2	1.73	0.44
1:F:290:GLN:OE1	1:G:278:ILE:HG12	2.17	0.44
1:H:159:HIS:NE2	1:H:271:HIS:HD2	2.15	0.44
1:I:167:LEU:HD23	1:I:170:VAL:HG22	1.99	0.44
1:I:309:GLN:HE22	1:I:320:PRO:HG3	1.81	0.44
1:J:137:GLU:HG3	1:J:285:PHE:CE1	2.52	0.44
1:L:159:HIS:NE2	1:L:271:HIS:HD2	2.16	0.44
1:M:126:TYR:OH	1:M:271:HIS:CD2	2.71	0.44
1:M:350:CYS:SG	1:M:353:VAL:HG23	2.57	0.44
1:N:134:THR:OG1	1:N:288:ASN:HB2	2.16	0.44
1:O:309:GLN:HE22	1:O:320:PRO:HG3	1.81	0.44
1:Q:94:TYR:HA	1:Q:184:ARG:HD3	1.98	0.44
1:Q:309:GLN:HE22	1:Q:320:PRO:HG3	1.81	0.44
1:R:159:HIS:NE2	1:R:271:HIS:HD2	2.15	0.44
1:S:126:TYR:OH	1:S:271:HIS:CD2	2.71	0.44
1:S:159:HIS:NE2	1:S:271:HIS:HD2	2.16	0.44
1:U:137:GLU:HG3	1:U:285:PHE:CE1	2.52	0.44
1:V:159:HIS:NE2	1:V:271:HIS:HD2	2.15	0.44
1:W:46:VAL:HG21	1:Y:218:LEU:HD21	2.00	0.44
1:X:94:TYR:HA	1:X:184:ARG:HD3	1.98	0.44
1:Y:290:GLN:OE1	1:x:278:ILE:HG12	2.18	0.44
1:Z:94:TYR:HA	1:Z:184:ARG:HD3	1.98	0.44
1:8:117:LYS:HB2	1:8:117:LYS:HE3	1.73	0.44
1:8:126:TYR:OH	1:8:271:HIS:CD2	2.71	0.44
1:8:325:LEU:HD12	1:8:365:LEU:HD11	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:94:TYR:HA	1:7:184:ARG:HD3	1.98	0.44
1:7:159:HIS:NE2	1:7:271:HIS:HD2	2.15	0.44
1:7:350:CYS:SG	1:7:353:VAL:HG23	2.57	0.44
1:6:94:TYR:HA	1:6:184:ARG:HD3	1.98	0.44
1:6:325:LEU:HD12	1:6:365:LEU:HD11	2.00	0.44
1:6:350:CYS:SG	1:6:353:VAL:HG23	2.57	0.44
1:5:47:TRP:CZ3	1:f:210:TYR:CE2	3.05	0.44
1:4:184:ARG:NH1	1:4:295:THR:OG1	2.40	0.44
1:3:350:CYS:SG	1:3:353:VAL:HG23	2.57	0.44
1:a:159:HIS:NE2	1:a:271:HIS:HD2	2.15	0.44
1:b:94:TYR:HA	1:b:184:ARG:HD3	1.98	0.44
1:c:134:THR:OG1	1:c:288:ASN:HB2	2.16	0.44
1:d:270:GLY:HA2	1:d:346:PHE:CE1	2.47	0.44
1:f:94:TYR:HA	1:f:184:ARG:HD3	1.98	0.44
1:f:167:LEU:HD23	1:f:170:VAL:HG22	1.99	0.44
1:f:210:TYR:HD2	1:h:130:ASN:OD1	1.99	0.44
1:j:167:LEU:HD23	1:j:170:VAL:HG22	1.99	0.44
1:l:95:ASN:HB3	1:l:181:SER:O	2.17	0.44
1:l:137:GLU:HG3	1:l:285:PHE:CE1	2.51	0.44
1:l:159:HIS:NE2	1:l:271:HIS:HD2	2.16	0.44
1:l:323:ASP:O	1:l:327:ILE:N	2.40	0.44
1:n:137:GLU:HG3	1:n:285:PHE:CE1	2.52	0.44
1:o:94:TYR:HA	1:o:184:ARG:HD3	1.98	0.44
1:o:105:VAL:HG12	1:o:105:VAL:O	2.18	0.44
1:p:105:VAL:O	1:p:105:VAL:HG12	2.18	0.44
1:p:159:HIS:NE2	1:p:271:HIS:HD2	2.15	0.44
1:q:159:HIS:NE2	1:q:271:HIS:HD2	2.16	0.44
1:v:126:TYR:OH	1:v:271:HIS:CD2	2.71	0.44
1:v:159:HIS:NE2	1:v:271:HIS:HD2	2.16	0.44
1:w:105:VAL:HG12	1:w:105:VAL:O	2.18	0.44
1:w:290:GLN:OE1	1:2:278:ILE:HG12	2.17	0.44
1:z:167:LEU:HD23	1:z:170:VAL:HG22	1.99	0.44
1:z:184:ARG:NH1	1:z:295:THR:OG1	2.40	0.44
1:2:159:HIS:NE2	1:2:271:HIS:HD2	2.15	0.44
1:A:105:VAL:O	1:A:105:VAL:HG12	2.18	0.44
1:A:126:TYR:OH	1:A:271:HIS:CD2	2.71	0.44
1:A:309:GLN:HE22	1:A:320:PRO:HG3	1.81	0.44
1:A:325:LEU:HD12	1:A:365:LEU:HD11	2.00	0.44
1:B:117:LYS:HE3	1:B:117:LYS:HB2	1.73	0.44
1:B:325:LEU:HD12	1:B:365:LEU:HD11	2.00	0.44
1:C:309:GLN:HE22	1:C:320:PRO:HG3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:323:ASP:O	1:C:327:ILE:N	2.40	0.44
1:D:94:TYR:HA	1:D:184:ARG:HD3	1.98	0.44
1:E:309:GLN:HE22	1:E:320:PRO:HG3	1.81	0.44
1:F:159:HIS:NE2	1:F:271:HIS:HD2	2.15	0.44
1:G:47:TRP:CZ3	1:I:210:TYR:CE2	3.05	0.44
1:H:126:TYR:OH	1:H:271:HIS:CD2	2.71	0.44
1:I:137:GLU:HG3	1:I:285:PHE:CE1	2.52	0.44
1:J:95:ASN:HB3	1:J:181:SER:O	2.17	0.44
1:J:159:HIS:NE2	1:J:271:HIS:HD2	2.16	0.44
1:K:94:TYR:HA	1:K:184:ARG:HD3	1.98	0.44
1:K:126:TYR:OH	1:K:271:HIS:CD2	2.70	0.44
1:L:95:ASN:HB3	1:L:181:SER:O	2.17	0.44
1:L:270:GLY:HA2	1:L:346:PHE:CE1	2.47	0.44
1:N:290:GLN:OE1	1:g:278:ILE:HG12	2.18	0.44
1:O:95:ASN:HB3	1:O:181:SER:O	2.17	0.44
1:O:350:CYS:SG	1:O:353:VAL:HG23	2.57	0.44
1:P:95:ASN:HB3	1:P:181:SER:O	2.17	0.44
1:T:278:ILE:HG12	1:c:290:GLN:OE1	2.18	0.44
1:Z:105:VAL:O	1:Z:105:VAL:HG12	2.18	0.44
1:Z:167:LEU:HD23	1:Z:170:VAL:HG22	1.99	0.44
1:Z:210:TYR:CE2	1:w:47:TRP:CZ3	3.05	0.44
1:7:325:LEU:HD12	1:7:365:LEU:HD11	2.00	0.44
1:6:309:GLN:HE22	1:6:320:PRO:HG3	1.81	0.44
1:4:126:TYR:OH	1:4:271:HIS:CD2	2.71	0.44
1:4:137:GLU:HG3	1:4:285:PHE:CE1	2.51	0.44
1:3:126:TYR:OH	1:3:271:HIS:CD2	2.71	0.44
1:b:95:ASN:HB3	1:b:181:SER:O	2.17	0.44
1:c:159:HIS:NE2	1:c:271:HIS:HD2	2.15	0.44
1:d:126:TYR:OH	1:d:271:HIS:CD2	2.71	0.44
1:f:105:VAL:O	1:f:105:VAL:HG12	2.18	0.44
1:h:95:ASN:HB3	1:h:181:SER:O	2.17	0.44
1:h:309:GLN:HE22	1:h:320:PRO:HG3	1.81	0.44
1:k:46:VAL:HG21	1:l:218:LEU:HD21	1.99	0.44
1:k:325:LEU:HD12	1:k:365:LEU:HD11	2.00	0.44
1:n:270:GLY:HA2	1:n:346:PHE:CE1	2.47	0.44
1:o:309:GLN:HE22	1:o:320:PRO:HG3	1.81	0.44
1:p:290:GLN:OE1	1:q:278:ILE:HG12	2.17	0.44
1:r:137:GLU:HG3	1:r:285:PHE:CE1	2.52	0.44
1:s:105:VAL:O	1:s:105:VAL:HG12	2.18	0.44
1:s:126:TYR:OH	1:s:271:HIS:CD2	2.71	0.44
1:s:167:LEU:HD23	1:s:170:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:325:LEU:HD12	1:s:365:LEU:HD11	2.00	0.44
1:t:137:GLU:HG3	1:t:285:PHE:CE1	2.52	0.44
1:t:350:CYS:SG	1:t:353:VAL:HG23	2.57	0.44
1:u:159:HIS:NE2	1:u:271:HIS:HD2	2.16	0.44
1:y:95:ASN:HB3	1:y:181:SER:O	2.17	0.44
1:y:159:HIS:NE2	1:y:271:HIS:HD2	2.15	0.44
1:z:94:TYR:HA	1:z:184:ARG:HD3	1.98	0.44
1:z:134:THR:OG1	1:z:288:ASN:HB2	2.16	0.44
1:2:95:ASN:HB3	1:2:181:SER:O	2.17	0.44
1:2:350:CYS:SG	1:2:353:VAL:HG23	2.57	0.44
1:B:167:LEU:HD23	1:B:170:VAL:HG22	1.99	0.44
1:C:325:LEU:HD12	1:C:365:LEU:HD11	2.00	0.44
1:D:134:THR:OG1	1:D:288:ASN:HB2	2.16	0.44
1:F:95:ASN:HB3	1:F:181:SER:O	2.17	0.44
1:H:122:THR:CG2	1:H:123:LYS:H	1.93	0.44
1:J:290:GLN:OE1	1:8:278:ILE:HG12	2.17	0.44
1:K:278:ILE:HG12	1:1:290:GLN:OE1	2.18	0.44
1:K:290:GLN:OE1	1:L:278:ILE:HG12	2.17	0.44
1:L:325:LEU:HD12	1:L:365:LEU:HD11	2.00	0.44
1:M:211:TRP:HA	1:7:46:VAL:HG22	2.00	0.44
1:N:126:TYR:OH	1:N:271:HIS:CD2	2.71	0.44
1:N:350:CYS:SG	1:N:353:VAL:HG23	2.57	0.44
1:O:159:HIS:NE2	1:O:271:HIS:HD2	2.16	0.44
1:P:159:HIS:NE2	1:P:271:HIS:HD2	2.15	0.44
1:Q:105:VAL:O	1:Q:105:VAL:HG12	2.18	0.44
1:S:239:VAL:O	1:S:241:GLN:HG3	2.18	0.44
1:S:350:CYS:SG	1:S:353:VAL:HG23	2.57	0.44
1:U:350:CYS:SG	1:U:353:VAL:HG23	2.57	0.44
1:W:94:TYR:HA	1:W:184:ARG:HD3	1.98	0.44
1:X:95:ASN:HB3	1:X:181:SER:O	2.17	0.44
1:X:105:VAL:O	1:X:105:VAL:HG12	2.18	0.44
1:X:239:VAL:O	1:X:241:GLN:HG3	2.18	0.44
1:X:350:CYS:SG	1:X:353:VAL:HG23	2.57	0.44
1:Y:159:HIS:NE2	1:Y:271:HIS:HD2	2.15	0.44
1:Z:95:ASN:HB3	1:Z:181:SER:O	2.17	0.44
1:Z:210:TYR:HD2	1:8:130:ASN:OD1	1.99	0.44
1:8:95:ASN:HB3	1:8:181:SER:O	2.17	0.44
1:7:95:ASN:HB3	1:7:181:SER:O	2.17	0.44
1:7:137:GLU:HG3	1:7:285:PHE:CE1	2.52	0.44
1:6:159:HIS:NE2	1:6:271:HIS:HD2	2.16	0.44
1:5:105:VAL:O	1:5:105:VAL:HG12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:137:GLU:HG3	1:3:285:PHE:CE1	2.52	0.44
1:b:105:VAL:O	1:b:105:VAL:HG12	2.18	0.44
1:b:323:ASP:O	1:b:327:ILE:N	2.40	0.44
1:b:350:CYS:SG	1:b:353:VAL:HG23	2.57	0.44
1:e:94:TYR:HA	1:e:184:ARG:HD3	1.98	0.44
1:f:95:ASN:HB3	1:f:181:SER:O	2.17	0.44
1:g:94:TYR:HA	1:g:184:ARG:HD3	1.98	0.44
1:g:126:TYR:OH	1:g:271:HIS:CD2	2.70	0.44
1:h:126:TYR:OH	1:h:271:HIS:CD2	2.71	0.44
1:h:325:LEU:HD12	1:h:365:LEU:HD11	2.00	0.44
1:j:126:TYR:OH	1:j:271:HIS:CD2	2.71	0.44
1:j:169:LYS:CD	1:j:343:ASN:HD22	2.25	0.44
1:l:94:TYR:HA	1:l:184:ARG:HD3	1.98	0.44
1:m:95:ASN:HB3	1:m:181:SER:O	2.17	0.44
1:m:270:GLY:HA2	1:m:346:PHE:CE1	2.47	0.44
1:n:309:GLN:HE22	1:n:320:PRO:HG3	1.81	0.44
1:p:95:ASN:HB3	1:p:181:SER:O	2.17	0.44
1:q:47:TRP:CZ3	1:r:210:TYR:CE2	3.05	0.44
1:t:184:ARG:NH1	1:t:295:THR:OG1	2.40	0.44
1:u:137:GLU:HG3	1:u:285:PHE:CE1	2.52	0.44
1:v:350:CYS:SG	1:v:353:VAL:HG23	2.57	0.44
1:w:159:HIS:NE2	1:w:271:HIS:HD2	2.15	0.44
1:1:126:TYR:OH	1:1:271:HIS:CD2	2.71	0.44
1:1:350:CYS:SG	1:1:353:VAL:HG23	2.57	0.44
1:A:184:ARG:NH1	1:A:295:THR:OG1	2.40	0.44
1:A:239:VAL:O	1:A:241:GLN:HG3	2.18	0.44
1:B:46:VAL:HG21	1:J:218:LEU:HD21	1.99	0.44
1:B:105:VAL:O	1:B:105:VAL:HG12	2.18	0.44
1:C:114:LEU:HD21	1:C:233:ASP:HB3	2.00	0.44
1:C:126:TYR:OH	1:C:271:HIS:CD2	2.71	0.44
1:C:169:LYS:CD	1:C:343:ASN:HD22	2.25	0.44
1:C:350:CYS:SG	1:C:353:VAL:HG23	2.57	0.44
1:E:95:ASN:HB3	1:E:181:SER:O	2.17	0.44
1:E:239:VAL:O	1:E:241:GLN:HG3	2.18	0.44
1:H:270:GLY:HA2	1:H:346:PHE:CE1	2.47	0.44
1:J:94:TYR:HA	1:J:184:ARG:HD3	1.98	0.44
1:J:114:LEU:HD21	1:J:233:ASP:HB3	2.00	0.44
1:J:323:ASP:O	1:J:327:ILE:N	2.40	0.44
1:K:323:ASP:O	1:K:327:ILE:N	2.40	0.44
1:M:159:HIS:NE2	1:M:271:HIS:HD2	2.15	0.44
1:O:167:LEU:HD23	1:O:170:VAL:HG22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:95:ASN:HB3	1:T:181:SER:O	2.17	0.44
1:W:126:TYR:OH	1:W:271:HIS:CD2	2.70	0.44
1:X:159:HIS:NE2	1:X:271:HIS:HD2	2.15	0.44
1:X:323:ASP:O	1:X:327:ILE:N	2.40	0.44
1:Z:126:TYR:OH	1:Z:271:HIS:CD2	2.71	0.44
1:8:309:GLN:HE22	1:8:320:PRO:HG3	1.81	0.44
1:6:137:GLU:HG3	1:6:285:PHE:CE1	2.52	0.44
1:5:159:HIS:NE2	1:5:271:HIS:HD2	2.15	0.44
1:4:118:ALA:HB2	1:4:327:ILE:CD1	2.48	0.44
1:3:278:ILE:HG12	1:t:290:GLN:OE1	2.17	0.44
1:b:159:HIS:NE2	1:b:271:HIS:HD2	2.15	0.44
1:b:239:VAL:O	1:b:241:GLN:HG3	2.18	0.44
1:d:46:VAL:HG21	1:e:218:LEU:HD21	1.99	0.44
1:d:95:ASN:HB3	1:d:181:SER:O	2.17	0.44
1:e:105:VAL:O	1:e:105:VAL:HG12	2.18	0.44
1:e:126:TYR:OH	1:e:271:HIS:CD2	2.70	0.44
1:f:126:TYR:OH	1:f:271:HIS:CD2	2.71	0.44
1:g:323:ASP:O	1:g:327:ILE:N	2.40	0.44
1:h:278:ILE:HG12	1:l:290:GLN:OE1	2.17	0.44
1:i:94:TYR:HA	1:i:184:ARG:HD3	1.98	0.44
1:i:159:HIS:NE2	1:i:271:HIS:HD2	2.15	0.44
1:k:95:ASN:HB3	1:k:181:SER:O	2.17	0.44
1:k:105:VAL:O	1:k:105:VAL:HG12	2.18	0.44
1:l:114:LEU:HD21	1:l:233:ASP:HB3	2.00	0.44
1:n:239:VAL:O	1:n:241:GLN:HG3	2.18	0.44
1:o:278:ILE:HG12	1:y:290:GLN:OE1	2.17	0.44
1:q:126:TYR:OH	1:q:271:HIS:CD2	2.71	0.44
1:s:239:VAL:O	1:s:241:GLN:HG3	2.18	0.44
1:s:309:GLN:HE22	1:s:320:PRO:HG3	1.81	0.44
1:t:325:LEU:HD12	1:t:365:LEU:HD11	2.00	0.44
1:v:117:LYS:HE3	1:v:117:LYS:HB2	1.73	0.44
1:v:239:VAL:O	1:v:241:GLN:HG3	2.18	0.44
1:x:95:ASN:HB3	1:x:181:SER:O	2.17	0.44
1:1:76:THR:HB	1:1:77:PRO:HD2	1.98	0.44
1:2:167:LEU:HD23	1:2:170:VAL:HG22	1.99	0.44
1:2:309:GLN:HE22	1:2:320:PRO:HG3	1.81	0.44
1:B:88:MET:HE3	1:B:330:TYR:HE1	1.83	0.44
1:B:95:ASN:HB3	1:B:181:SER:O	2.17	0.44
1:C:239:VAL:O	1:C:241:GLN:HG3	2.18	0.44
1:G:143:GLY:O	1:G:144:THR:OG1	2.25	0.44
1:H:46:VAL:HG21	1:W:218:LEU:HD21	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:95:ASN:HB3	1:H:181:SER:O	2.17	0.44
1:M:117:LYS:HB2	1:M:117:LYS:HE3	1.73	0.44
1:M:278:ILE:HG12	1:6:290:GLN:OE1	2.18	0.44
1:N:76:THR:HB	1:N:77:PRO:HD2	1.98	0.44
1:N:94:TYR:HA	1:N:184:ARG:HD3	1.98	0.44
1:P:126:TYR:OH	1:P:271:HIS:CD2	2.71	0.44
1:P:290:GLN:OE1	1:Q:278:ILE:HG12	2.18	0.44
1:R:105:VAL:O	1:R:105:VAL:HG12	2.18	0.44
1:R:114:LEU:HD21	1:R:233:ASP:HB3	2.00	0.44
1:R:126:TYR:OH	1:R:271:HIS:CD2	2.71	0.44
1:U:325:LEU:HD12	1:U:365:LEU:HD11	2.00	0.44
1:W:95:ASN:HB3	1:W:181:SER:O	2.17	0.44
1:W:105:VAL:O	1:W:105:VAL:HG12	2.18	0.44
1:Y:126:TYR:OH	1:Y:271:HIS:CD2	2.71	0.44
1:5:126:TYR:OH	1:5:271:HIS:CD2	2.71	0.44
1:3:46:VAL:HG21	1:b:218:LEU:HD21	1.98	0.44
1:3:118:ALA:HB2	1:3:327:ILE:CD1	2.48	0.44
1:g:114:LEU:HD21	1:g:233:ASP:HB3	2.00	0.44
1:j:114:LEU:HD21	1:j:233:ASP:HB3	2.00	0.44
1:j:239:VAL:O	1:j:241:GLN:HG3	2.18	0.44
1:j:325:LEU:HD12	1:j:365:LEU:HD11	2.00	0.44
1:j:350:CYS:SG	1:j:353:VAL:HG23	2.57	0.44
1:k:159:HIS:NE2	1:k:271:HIS:HD2	2.15	0.44
1:k:167:LEU:HD23	1:k:170:VAL:HG22	1.99	0.44
1:m:325:LEU:HD12	1:m:365:LEU:HD11	2.00	0.44
1:n:95:ASN:HB3	1:n:181:SER:O	2.17	0.44
1:q:218:LEU:HD21	1:s:46:VAL:HG21	1.98	0.44
1:u:76:THR:HB	1:u:77:PRO:HD2	1.98	0.44
1:u:105:VAL:O	1:u:105:VAL:HG12	2.18	0.44
1:v:309:GLN:HE22	1:v:320:PRO:HG3	1.81	0.44
1:w:126:TYR:OH	1:w:271:HIS:CD2	2.71	0.44
1:y:126:TYR:OH	1:y:271:HIS:CD2	2.70	0.44
1:1:325:LEU:HD12	1:1:365:LEU:HD11	2.00	0.44
1:A:46:VAL:HG21	1:G:218:LEU:HD21	1.98	0.44
1:B:114:LEU:HD21	1:B:233:ASP:HB3	2.00	0.44
1:B:118:ALA:HB2	1:B:327:ILE:CD1	2.48	0.44
1:B:159:HIS:NE2	1:B:271:HIS:HD2	2.15	0.44
1:D:239:VAL:O	1:D:241:GLN:HG3	2.18	0.44
1:E:114:LEU:HD21	1:E:233:ASP:HB3	2.00	0.44
1:F:114:LEU:HD21	1:F:233:ASP:HB3	2.00	0.44
1:G:126:TYR:OH	1:G:271:HIS:CD2	2.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:290:GLN:OE1	1:W:278:ILE:HG12	2.18	0.44
1:H:94:TYR:HA	1:H:184:ARG:HD3	1.98	0.44
1:I:95:ASN:HB3	1:I:181:SER:O	2.17	0.44
1:I:118:ALA:HB2	1:I:327:ILE:CD1	2.48	0.44
1:I:126:TYR:OH	1:I:271:HIS:CD2	2.71	0.44
1:K:114:LEU:HD21	1:K:233:ASP:HB3	2.00	0.44
1:K:325:LEU:HD12	1:K:365:LEU:HD11	2.00	0.44
1:M:94:TYR:HA	1:M:184:ARG:HD3	1.98	0.44
1:M:309:GLN:HE22	1:M:320:PRO:HG3	1.81	0.44
1:N:159:HIS:NE2	1:N:271:HIS:HD2	2.15	0.44
1:N:309:GLN:HE22	1:N:320:PRO:HG3	1.81	0.44
1:N:325:LEU:HD12	1:N:365:LEU:HD11	2.00	0.44
1:O:105:VAL:O	1:O:105:VAL:HG12	2.18	0.44
1:P:118:ALA:HB2	1:P:327:ILE:CD1	2.48	0.44
1:R:76:THR:HB	1:R:77:PRO:HD2	1.98	0.44
1:T:126:TYR:OH	1:T:271:HIS:CD2	2.70	0.44
1:T:143:GLY:O	1:T:144:THR:OG1	2.25	0.44
1:U:105:VAL:O	1:U:105:VAL:HG12	2.18	0.44
1:W:159:HIS:NE2	1:W:271:HIS:HD2	2.15	0.44
1:X:167:LEU:HD23	1:X:170:VAL:HG22	1.99	0.44
1:8:114:LEU:HD21	1:8:233:ASP:HB3	2.00	0.44
1:7:130:ASN:OD1	1:i:210:TYR:HD2	2.00	0.44
1:5:95:ASN:HB3	1:5:181:SER:O	2.17	0.44
1:5:167:LEU:HD23	1:5:170:VAL:HG22	1.99	0.44
1:4:290:GLN:OE1	1:b:278:ILE:HG12	2.18	0.44
1:3:114:LEU:HD21	1:3:233:ASP:HB3	2.00	0.44
1:b:182:SER:OG	1:b:187:ASP:OD2	2.23	0.44
1:c:126:TYR:OH	1:c:271:HIS:CD2	2.71	0.44
1:e:95:ASN:HB3	1:e:181:SER:O	2.17	0.44
1:e:117:LYS:HE3	1:e:117:LYS:HB2	1.73	0.44
1:e:159:HIS:NE2	1:e:271:HIS:HD2	2.15	0.44
1:g:117:LYS:HE3	1:g:117:LYS:HB2	1.73	0.44
1:g:290:GLN:OE1	1:m:278:ILE:HG12	2.18	0.44
1:h:114:LEU:HD21	1:h:233:ASP:HB3	2.00	0.44
1:h:239:VAL:O	1:h:241:GLN:HG3	2.18	0.44
1:i:309:GLN:HE22	1:i:320:PRO:HG3	1.81	0.44
1:k:88:MET:HE3	1:k:330:TYR:HE1	1.83	0.44
1:k:114:LEU:HD21	1:k:233:ASP:HB3	2.00	0.44
1:n:114:LEU:HD21	1:n:233:ASP:HB3	2.00	0.44
1:p:117:LYS:HE3	1:p:117:LYS:HB2	1.73	0.44
1:p:184:ARG:HH12	1:p:295:THR:HG1	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:350:CYS:SG	1:p:353:VAL:HG23	2.57	0.44
1:r:118:ALA:HB2	1:r:327:ILE:CD1	2.48	0.44
1:r:126:TYR:OH	1:r:271:HIS:CD2	2.71	0.44
1:t:105:VAL:O	1:t:105:VAL:HG12	2.18	0.44
1:u:114:LEU:HD21	1:u:233:ASP:HB3	2.00	0.44
1:u:126:TYR:OH	1:u:271:HIS:CD2	2.71	0.44
1:x:126:TYR:OH	1:x:271:HIS:CD2	2.71	0.44
1:y:118:ALA:HB2	1:y:327:ILE:CD1	2.48	0.44
1:z:105:VAL:O	1:z:105:VAL:HG12	2.18	0.44
1:z:137:GLU:HG3	1:z:285:PHE:CE1	2.52	0.44
1:z:239:VAL:O	1:z:241:GLN:HG3	2.18	0.44
1:1:94:TYR:HA	1:1:184:ARG:HD3	1.98	0.44
1:A:114:LEU:HD21	1:A:233:ASP:HB3	2.00	0.44
1:A:118:ALA:HB2	1:A:327:ILE:CD1	2.48	0.44
1:B:184:ARG:NH1	1:B:295:THR:OG1	2.40	0.44
1:C:105:VAL:O	1:C:105:VAL:HG12	2.18	0.44
1:D:46:VAL:HG21	1:N:218:LEU:HD21	2.00	0.44
1:F:350:CYS:SG	1:F:353:VAL:HG23	2.57	0.44
1:G:114:LEU:HD21	1:G:233:ASP:HB3	2.00	0.44
1:G:167:LEU:HD23	1:G:170:VAL:HG22	1.99	0.44
1:H:167:LEU:HD23	1:H:170:VAL:HG22	1.99	0.44
1:I:290:GLN:OE1	1:J:278:ILE:HG12	2.17	0.44
1:J:46:VAL:HG21	1:L:218:LEU:HD21	1.98	0.44
1:J:325:LEU:HD12	1:J:365:LEU:HD11	2.00	0.44
1:L:126:TYR:OH	1:L:271:HIS:CD2	2.71	0.44
1:N:239:VAL:O	1:N:241:GLN:HG3	2.18	0.44
1:O:290:GLN:OE1	1:P:278:ILE:HG12	2.18	0.44
1:P:350:CYS:SG	1:P:353:VAL:HG23	2.57	0.44
1:Q:117:LYS:HE3	1:Q:117:LYS:HB2	1.73	0.44
1:R:88:MET:HE3	1:R:330:TYR:HE1	1.83	0.44
1:R:218:LEU:HD21	1:U:46:VAL:HG21	1.99	0.44
1:S:95:ASN:HB3	1:S:181:SER:O	2.17	0.44
1:S:114:LEU:HD21	1:S:233:ASP:HB3	2.00	0.44
1:S:309:GLN:HE22	1:S:320:PRO:HG3	1.81	0.44
1:T:290:GLN:OE1	1:U:278:ILE:HG12	2.17	0.44
1:U:184:ARG:NH1	1:U:295:THR:OG1	2.40	0.44
1:U:239:VAL:O	1:U:241:GLN:HG3	2.18	0.44
1:U:290:GLN:OE1	1:4:278:ILE:HG12	2.18	0.44
1:V:105:VAL:O	1:V:105:VAL:HG12	2.18	0.44
1:X:218:LEU:HD21	1:4:46:VAL:HG21	1.99	0.44
1:X:278:ILE:HG12	1:3:290:GLN:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:95:ASN:HB3	1:Y:181:SER:O	2.17	0.44
1:Y:118:ALA:HB2	1:Y:327:ILE:CD1	2.48	0.44
1:Z:88:MET:HE3	1:Z:330:TYR:HE1	1.83	0.44
1:8:239:VAL:O	1:8:241:GLN:HG3	2.18	0.44
1:7:118:ALA:HB2	1:7:327:ILE:CD1	2.48	0.44
1:7:126:TYR:OH	1:7:271:HIS:CD2	2.71	0.44
1:5:88:MET:HE3	1:5:330:TYR:HE1	1.83	0.44
1:5:114:LEU:HD21	1:5:233:ASP:HB3	2.00	0.44
1:4:325:LEU:HD12	1:4:365:LEU:HD11	2.00	0.44
1:3:325:LEU:HD12	1:3:365:LEU:HD11	2.00	0.44
1:a:350:CYS:SG	1:a:353:VAL:HG23	2.57	0.44
1:b:167:LEU:HD23	1:b:170:VAL:HG22	1.99	0.44
1:c:95:ASN:HB3	1:c:181:SER:O	2.17	0.44
1:d:94:TYR:HA	1:d:184:ARG:HD3	1.98	0.44
1:d:167:LEU:HD23	1:d:170:VAL:HG22	1.99	0.44
1:f:88:MET:HE3	1:f:330:TYR:HE1	1.83	0.44
1:g:325:LEU:HD12	1:g:365:LEU:HD11	1.99	0.44
1:i:105:VAL:O	1:i:105:VAL:HG12	2.18	0.44
1:i:118:ALA:HB2	1:i:327:ILE:CD1	2.48	0.44
1:j:105:VAL:O	1:j:105:VAL:HG12	2.18	0.44
1:k:118:ALA:HB2	1:k:327:ILE:CD1	2.48	0.44
1:l:46:VAL:HG21	1:m:218:LEU:HD21	1.98	0.44
1:l:278:ILE:HG12	1:r:290:GLN:OE1	2.17	0.44
1:l:325:LEU:HD12	1:l:365:LEU:HD11	2.00	0.44
1:n:278:ILE:HG12	1:s:290:GLN:OE1	2.17	0.44
1:p:114:LEU:HD21	1:p:233:ASP:HB3	2.00	0.44
1:r:95:ASN:HB3	1:r:181:SER:O	2.17	0.44
1:s:95:ASN:HB3	1:s:181:SER:O	2.17	0.44
1:s:114:LEU:HD21	1:s:233:ASP:HB3	2.00	0.44
1:s:118:ALA:HB2	1:s:327:ILE:CD1	2.48	0.44
1:u:88:MET:HE3	1:u:330:TYR:HE1	1.83	0.44
1:w:114:LEU:HD21	1:w:233:ASP:HB3	2.00	0.44
1:w:167:LEU:HD23	1:w:170:VAL:HG22	1.99	0.44
1:y:278:ILE:HG12	1:2:290:GLN:OE1	2.18	0.44
1:y:350:CYS:SG	1:y:353:VAL:HG23	2.57	0.44
1:z:46:VAL:HG21	1:1:218:LEU:HD21	2.00	0.44
1:1:159:HIS:NE2	1:1:271:HIS:HD2	2.15	0.44
1:2:105:VAL:O	1:2:105:VAL:HG12	2.18	0.44
1:A:290:GLN:OE1	1:E:278:ILE:HG12	2.17	0.44
1:D:105:VAL:HG12	1:D:105:VAL:O	2.18	0.44
1:D:137:GLU:HG3	1:D:285:PHE:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:83:ILE:HG22	1:G:85:TRP:HB3	2.00	0.44
1:G:117:LYS:HB2	1:G:117:LYS:HE3	1.73	0.44
1:H:278:ILE:HG12	1:Z:290:GLN:OE1	2.18	0.44
1:J:350:CYS:SG	1:J:353:VAL:HG23	2.57	0.44
1:L:88:MET:HE3	1:L:330:TYR:HE1	1.83	0.44
1:L:239:VAL:O	1:L:241:GLN:HG3	2.18	0.44
1:M:105:VAL:O	1:M:105:VAL:HG12	2.18	0.44
1:M:118:ALA:HB2	1:M:327:ILE:CD1	2.48	0.44
1:M:243:ASN:C	1:7:258:ILE:HG22	2.43	0.44
1:N:95:ASN:HB3	1:N:181:SER:O	2.17	0.44
1:P:239:VAL:O	1:P:241:GLN:HG3	2.18	0.44
1:T:114:LEU:HD21	1:T:233:ASP:HB3	2.00	0.44
1:T:118:ALA:HB2	1:T:327:ILE:CD1	2.48	0.44
1:T:159:HIS:NE2	1:T:271:HIS:HD2	2.16	0.44
1:V:350:CYS:SG	1:V:353:VAL:HG23	2.57	0.44
1:X:182:SER:OG	1:X:187:ASP:OD2	2.23	0.44
1:Y:325:LEU:HD12	1:Y:365:LEU:HD11	2.00	0.44
1:7:105:VAL:O	1:7:105:VAL:HG12	2.18	0.44
1:6:118:ALA:HB2	1:6:327:ILE:CD1	2.48	0.44
1:6:126:TYR:OH	1:6:271:HIS:CD2	2.71	0.44
1:5:325:LEU:HD12	1:5:365:LEU:HD11	2.00	0.44
1:4:105:VAL:O	1:4:105:VAL:HG12	2.18	0.44
1:4:114:LEU:HD21	1:4:233:ASP:HB3	2.00	0.44
1:4:228:PHE:HE2	1:4:230:PHE:HE1	0.79	0.44
1:4:239:VAL:O	1:4:241:GLN:HG3	2.18	0.44
1:3:105:VAL:O	1:3:105:VAL:HG12	2.18	0.44
1:a:105:VAL:O	1:a:105:VAL:HG12	2.18	0.44
1:a:114:LEU:HD21	1:a:233:ASP:HB3	2.00	0.44
1:c:118:ALA:HB2	1:c:327:ILE:CD1	2.48	0.44
1:c:325:LEU:HD12	1:c:365:LEU:HD11	2.00	0.44
1:e:278:ILE:HG12	1:q:290:GLN:OE1	2.18	0.44
1:g:350:CYS:SG	1:g:353:VAL:HG23	2.57	0.44
1:l:350:CYS:SG	1:l:353:VAL:HG23	2.57	0.44
1:m:88:MET:HE3	1:m:330:TYR:HE1	1.83	0.44
1:m:126:TYR:OH	1:m:271:HIS:CD2	2.71	0.44
1:n:325:LEU:HD12	1:n:365:LEU:HD11	2.00	0.44
1:p:118:ALA:HB2	1:p:327:ILE:CD1	2.48	0.44
1:q:114:LEU:HD21	1:q:233:ASP:HB3	2.00	0.44
1:q:167:LEU:HD23	1:q:170:VAL:HG22	1.99	0.44
1:t:46:VAL:HG21	1:u:218:LEU:HD21	1.99	0.44
1:t:239:VAL:O	1:t:241:GLN:HG3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:278:ILE:HG12	1:x:290:GLN:OE1	2.18	0.44
1:v:95:ASN:HB3	1:v:181:SER:O	2.17	0.44
1:v:114:LEU:HD21	1:v:233:ASP:HB3	2.00	0.44
1:w:88:MET:HE3	1:w:330:TYR:HE1	1.83	0.44
1:w:95:ASN:HB3	1:w:181:SER:O	2.17	0.44
1:x:114:LEU:HD21	1:x:233:ASP:HB3	2.00	0.44
1:x:118:ALA:HB2	1:x:327:ILE:CD1	2.48	0.44
1:z:350:CYS:SG	1:z:353:VAL:HG23	2.57	0.44
1:1:239:VAL:O	1:1:241:GLN:HG3	2.18	0.44
1:1:309:GLN:HE22	1:1:320:PRO:HG3	1.81	0.44
1:A:95:ASN:HB3	1:A:181:SER:O	2.17	0.44
1:D:114:LEU:HD21	1:D:233:ASP:HB3	2.00	0.44
1:D:159:HIS:NE2	1:D:271:HIS:HD2	2.15	0.44
1:D:179:PRO:O	1:D:188:TYR:OH	2.25	0.44
1:D:325:LEU:HD12	1:D:365:LEU:HD11	2.00	0.44
1:D:350:CYS:SG	1:D:353:VAL:HG23	2.57	0.44
1:E:118:ALA:HB2	1:E:327:ILE:CD1	2.48	0.44
1:E:325:LEU:HD12	1:E:365:LEU:HD11	2.00	0.44
1:E:350:CYS:SG	1:E:353:VAL:HG23	2.57	0.44
1:F:118:ALA:HB2	1:F:327:ILE:CD1	2.48	0.44
1:F:126:TYR:OH	1:F:271:HIS:CD2	2.71	0.44
1:F:137:GLU:HG3	1:F:285:PHE:CE1	2.52	0.44
1:F:278:ILE:HG12	1:R:290:GLN:OE1	2.17	0.44
1:G:88:MET:HE3	1:G:330:TYR:HE1	1.83	0.44
1:G:350:CYS:SG	1:G:353:VAL:HG23	2.57	0.44
1:H:88:MET:HE3	1:H:330:TYR:HE1	1.83	0.44
1:H:350:CYS:SG	1:H:353:VAL:HG23	2.57	0.44
1:K:317:ASN:HD21	1:8:194:SER:HA	1.83	0.44
1:K:350:CYS:SG	1:K:353:VAL:HG23	2.57	0.44
1:L:83:ILE:HG22	1:L:85:TRP:HB3	2.00	0.44
1:L:118:ALA:HB2	1:L:327:ILE:CD1	2.48	0.44
1:L:278:ILE:HB	1:L:285:PHE:CB	2.48	0.44
1:N:83:ILE:HG22	1:N:85:TRP:HB3	2.00	0.44
1:N:118:ALA:HB2	1:N:327:ILE:CD1	2.48	0.44
1:O:46:VAL:CG1	1:g:209:ARG:CB	2.85	0.44
1:O:114:LEU:HD21	1:O:233:ASP:HB3	2.00	0.44
1:R:239:VAL:O	1:R:241:GLN:HG3	2.18	0.44
1:S:118:ALA:HB2	1:S:327:ILE:CD1	2.48	0.44
1:T:88:MET:HE3	1:T:330:TYR:HE1	1.83	0.44
1:V:114:LEU:HD21	1:V:233:ASP:HB3	2.00	0.44
1:V:278:ILE:HG12	1:W:290:GLN:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:83:ILE:HG22	1:W:85:TRP:HB3	2.00	0.44
1:W:114:LEU:HD21	1:W:233:ASP:HB3	2.00	0.44
1:Z:83:ILE:HG22	1:Z:85:TRP:HB3	2.00	0.44
1:6:105:VAL:O	1:6:105:VAL:HG12	2.18	0.44
1:d:88:MET:HE3	1:d:330:TYR:HE1	1.83	0.44
1:d:278:ILE:HG12	1:f:290:GLN:OE1	2.18	0.44
1:e:83:ILE:HG22	1:e:85:TRP:HB3	2.00	0.44
1:f:83:ILE:HG22	1:f:85:TRP:HB3	2.00	0.44
1:g:83:ILE:HG22	1:g:85:TRP:HB3	2.00	0.44
1:j:290:GLN:OE1	1:k:278:ILE:HG12	2.18	0.44
1:k:184:ARG:NH1	1:k:295:THR:OG1	2.40	0.44
1:l:126:TYR:OH	1:l:271:HIS:CD2	2.71	0.44
1:m:239:VAL:O	1:m:241:GLN:HG3	2.18	0.44
1:n:118:ALA:HB2	1:n:327:ILE:CD1	2.48	0.44
1:n:350:CYS:SG	1:n:353:VAL:HG23	2.57	0.44
1:o:114:LEU:HD21	1:o:233:ASP:HB3	2.00	0.44
1:o:126:TYR:OH	1:o:271:HIS:CD2	2.71	0.44
1:p:137:GLU:HG3	1:p:285:PHE:CE1	2.52	0.44
1:q:83:ILE:HG22	1:q:85:TRP:HB3	2.00	0.44
1:q:350:CYS:SG	1:q:353:VAL:HG23	2.57	0.44
1:u:239:VAL:O	1:u:241:GLN:HG3	2.18	0.44
1:u:278:ILE:HB	1:u:285:PHE:CB	2.48	0.44
1:w:325:LEU:HD12	1:w:365:LEU:HD11	2.00	0.44
1:x:88:MET:HE3	1:x:330:TYR:HE1	1.83	0.44
1:x:143:GLY:O	1:x:144:THR:OG1	2.25	0.44
1:x:159:HIS:NE2	1:x:271:HIS:HD2	2.16	0.44
1:y:105:VAL:O	1:y:105:VAL:HG12	2.18	0.44
1:z:114:LEU:HD21	1:z:233:ASP:HB3	2.00	0.44
1:z:325:LEU:HD12	1:z:365:LEU:HD11	2.00	0.44
1:1:83:ILE:HG22	1:1:85:TRP:HB3	2.00	0.44
1:1:118:ALA:HB2	1:1:327:ILE:CD1	2.48	0.44
1:2:114:LEU:HD21	1:2:233:ASP:HB3	2.00	0.44
1:B:278:ILE:HG12	1:C:290:GLN:OE1	2.18	0.43
1:B:350:CYS:SG	1:B:353:VAL:HG23	2.57	0.43
1:D:218:LEU:HD21	1:P:46:VAL:HG21	1.99	0.43
1:F:83:ILE:HG22	1:F:85:TRP:HB3	2.00	0.43
1:F:325:LEU:HD12	1:F:365:LEU:HD11	2.00	0.43
1:I:88:MET:HE3	1:I:330:TYR:HE1	1.83	0.43
1:J:126:TYR:OH	1:J:271:HIS:CD2	2.71	0.43
1:K:83:ILE:HG22	1:K:85:TRP:HB3	2.00	0.43
1:O:239:VAL:O	1:O:241:GLN:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:105:VAL:O	1:P:105:VAL:HG12	2.18	0.43
1:Q:114:LEU:HD21	1:Q:233:ASP:HB3	2.00	0.43
1:Q:126:TYR:OH	1:Q:271:HIS:CD2	2.71	0.43
1:R:278:ILE:HB	1:R:285:PHE:CB	2.48	0.43
1:W:239:VAL:O	1:W:241:GLN:HG3	2.18	0.43
1:Y:350:CYS:SG	1:Y:353:VAL:HG23	2.57	0.43
1:Z:118:ALA:HB2	1:Z:327:ILE:CD1	2.48	0.43
1:4:83:ILE:HG22	1:4:85:TRP:HB3	2.00	0.43
1:4:278:ILE:HB	1:4:285:PHE:CB	2.48	0.43
1:3:239:VAL:O	1:3:241:GLN:HG3	2.18	0.43
1:3:278:ILE:HB	1:3:285:PHE:CB	2.48	0.43
1:a:278:ILE:HB	1:a:285:PHE:CB	2.48	0.43
1:a:278:ILE:HG12	1:e:290:GLN:OE1	2.18	0.43
1:c:179:PRO:O	1:c:188:TYR:OH	2.25	0.43
1:d:122:THR:CG2	1:d:123:LYS:H	1.93	0.43
1:d:350:CYS:SG	1:d:353:VAL:HG23	2.57	0.43
1:e:114:LEU:HD21	1:e:233:ASP:HB3	2.00	0.43
1:e:239:VAL:O	1:e:241:GLN:HG3	2.18	0.43
1:g:317:ASN:HD21	1:h:194:SER:HA	1.83	0.43
1:k:117:LYS:HB2	1:k:117:LYS:HE3	1.73	0.43
1:k:290:GLN:OE1	1:s:278:ILE:HG12	2.17	0.43
1:k:350:CYS:SG	1:k:353:VAL:HG23	2.57	0.43
1:m:83:ILE:HG22	1:m:85:TRP:HB3	2.00	0.43
1:n:126:TYR:OH	1:n:271:HIS:CD2	2.71	0.43
1:p:83:ILE:HG22	1:p:85:TRP:HB3	2.00	0.43
1:p:278:ILE:HG12	1:u:290:GLN:OE1	2.18	0.43
1:q:105:VAL:O	1:q:105:VAL:HG12	2.18	0.43
1:r:88:MET:HE3	1:r:330:TYR:HE1	1.83	0.43
1:r:239:VAL:O	1:r:241:GLN:HG3	2.18	0.43
1:u:117:LYS:HB2	1:u:117:LYS:HE3	1.73	0.43
1:u:325:LEU:HD12	1:u:365:LEU:HD11	2.00	0.43
1:v:118:ALA:HB2	1:v:327:ILE:CD1	2.48	0.43
1:w:278:ILE:HB	1:w:285:PHE:CB	2.48	0.43
1:y:88:MET:HE3	1:y:330:TYR:HE1	1.83	0.43
1:y:239:VAL:O	1:y:241:GLN:HG3	2.18	0.43
1:z:159:HIS:NE2	1:z:271:HIS:HD2	2.15	0.43
1:1:95:ASN:HB3	1:1:181:SER:O	2.17	0.43
1:2:118:ALA:HB2	1:2:327:ILE:CD1	2.48	0.43
1:A:88:MET:HE3	1:A:330:TYR:HE1	1.83	0.43
1:C:88:MET:HE3	1:C:330:TYR:HE1	1.83	0.43
1:C:118:ALA:HB2	1:C:327:ILE:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:126:TYR:OH	1:E:271:HIS:CD2	2.71	0.43
1:G:105:VAL:O	1:G:105:VAL:HG12	2.18	0.43
1:I:239:VAL:O	1:I:241:GLN:HG3	2.18	0.43
1:K:209:ARG:CB	1:2:46:VAL:CG1	2.85	0.43
1:N:117:LYS:HB2	1:N:117:LYS:HE3	1.73	0.43
1:O:88:MET:HE3	1:O:330:TYR:HE1	1.83	0.43
1:R:83:ILE:HG22	1:R:85:TRP:HB3	2.00	0.43
1:R:325:LEU:HD12	1:R:365:LEU:HD11	2.00	0.43
1:S:133:LEU:N	1:S:213:GLN:HE21	1.97	0.43
1:T:83:ILE:HG22	1:T:85:TRP:HB3	2.00	0.43
1:T:285:PHE:HD2	1:T:287:LEU:HG	1.84	0.43
1:U:159:HIS:NE2	1:U:271:HIS:HD2	2.15	0.43
1:V:83:ILE:HG22	1:V:85:TRP:HB3	2.00	0.43
1:V:126:TYR:OH	1:V:271:HIS:CD2	2.71	0.43
1:V:239:VAL:O	1:V:241:GLN:HG3	2.18	0.43
1:8:285:PHE:HD2	1:8:287:LEU:HG	1.84	0.43
1:5:83:ILE:HG22	1:5:85:TRP:HB3	2.00	0.43
1:5:278:ILE:HB	1:5:285:PHE:CB	2.48	0.43
1:3:159:HIS:NE2	1:3:271:HIS:HD2	2.15	0.43
1:a:83:ILE:HG22	1:a:85:TRP:HB3	2.00	0.43
1:a:239:VAL:O	1:a:241:GLN:HG3	2.18	0.43
1:b:290:GLN:OE1	1:c:278:ILE:HG12	2.18	0.43
1:c:350:CYS:SG	1:c:353:VAL:HG23	2.57	0.43
1:d:114:LEU:HD21	1:d:233:ASP:HB3	2.00	0.43
1:f:118:ALA:HB2	1:f:327:ILE:CD1	2.48	0.43
1:g:105:VAL:HG12	1:g:105:VAL:O	2.18	0.43
1:j:88:MET:HE3	1:j:330:TYR:HE1	1.83	0.43
1:j:118:ALA:HB2	1:j:327:ILE:CD1	2.48	0.43
1:m:118:ALA:HB2	1:m:327:ILE:CD1	2.48	0.43
1:m:184:ARG:NH1	1:m:295:THR:OG1	2.40	0.43
1:m:278:ILE:HB	1:m:285:PHE:CB	2.48	0.43
1:o:350:CYS:SG	1:o:353:VAL:HG23	2.57	0.43
1:p:126:TYR:OH	1:p:271:HIS:CD2	2.71	0.43
1:q:88:MET:HE3	1:q:330:TYR:HE1	1.83	0.43
1:q:117:LYS:HB2	1:q:117:LYS:HE3	1.73	0.43
1:r:114:LEU:HD21	1:r:233:ASP:HB3	2.00	0.43
1:s:88:MET:HE3	1:s:330:TYR:HE1	1.83	0.43
1:u:95:ASN:HB3	1:u:181:SER:O	2.17	0.43
1:u:118:ALA:HB2	1:u:327:ILE:CD1	2.48	0.43
1:w:83:ILE:HG22	1:w:85:TRP:HB3	2.00	0.43
1:x:83:ILE:HG22	1:x:85:TRP:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:285:PHE:HD2	1:x:287:LEU:HG	1.84	0.43
1:y:46:VAL:HG21	1:z:218:LEU:HD21	1.99	0.43
1:z:278:ILE:HB	1:z:285:PHE:CB	2.48	0.43
1:1:278:ILE:HB	1:1:285:PHE:CB	2.48	0.43
1:2:88:MET:HE3	1:2:330:TYR:HE1	1.83	0.43
1:2:239:VAL:O	1:2:241:GLN:HG3	2.18	0.43
1:A:278:ILE:HG12	1:B:290:GLN:OE1	2.18	0.43
1:C:317:ASN:HD21	1:7:194:SER:HA	1.83	0.43
1:D:278:ILE:HB	1:D:285:PHE:CB	2.48	0.43
1:E:278:ILE:HB	1:E:285:PHE:CB	2.48	0.43
1:H:218:LEU:HD21	1:Y:46:VAL:HG21	1.99	0.43
1:I:114:LEU:HD21	1:I:233:ASP:HB3	2.00	0.43
1:K:105:VAL:O	1:K:105:VAL:HG12	2.18	0.43
1:K:118:ALA:HB2	1:K:327:ILE:CD1	2.48	0.43
1:L:105:VAL:HG12	1:L:105:VAL:O	2.18	0.43
1:N:278:ILE:HB	1:N:285:PHE:CB	2.48	0.43
1:N:285:PHE:HD2	1:N:287:LEU:HG	1.84	0.43
1:O:118:ALA:HB2	1:O:327:ILE:CD1	2.48	0.43
1:O:126:TYR:OH	1:O:271:HIS:CD2	2.71	0.43
1:P:117:LYS:HE3	1:P:117:LYS:HB2	1.73	0.43
1:Q:83:ILE:HG22	1:Q:85:TRP:HB3	2.00	0.43
1:Q:159:HIS:NE2	1:Q:271:HIS:HD2	2.15	0.43
1:Q:350:CYS:SG	1:Q:353:VAL:HG23	2.57	0.43
1:R:95:ASN:HB3	1:R:181:SER:O	2.17	0.43
1:R:118:ALA:HB2	1:R:327:ILE:CD1	2.48	0.43
1:T:278:ILE:HB	1:T:285:PHE:CB	2.48	0.43
1:U:88:MET:HE3	1:U:330:TYR:HE1	1.83	0.43
1:V:95:ASN:HB3	1:V:181:SER:O	2.17	0.43
1:V:117:LYS:HB2	1:V:117:LYS:HE3	1.73	0.43
1:V:167:LEU:HD23	1:V:170:VAL:HG22	1.99	0.43
1:V:278:ILE:HB	1:V:285:PHE:CB	2.48	0.43
1:W:285:PHE:HD2	1:W:287:LEU:HG	1.84	0.43
1:W:325:LEU:HD12	1:W:365:LEU:HD11	2.00	0.43
1:X:290:GLN:OE1	1:Y:278:ILE:HG12	2.18	0.43
1:Y:83:ILE:HG22	1:Y:85:TRP:HB3	2.00	0.43
1:Y:179:PRO:O	1:Y:188:TYR:OH	2.25	0.43
1:8:278:ILE:HB	1:8:285:PHE:CB	2.48	0.43
1:7:285:PHE:HD2	1:7:287:LEU:HG	1.84	0.43
1:7:290:GLN:OE1	1:i:278:ILE:HG12	2.19	0.43
1:6:46:VAL:HG21	1:i:218:LEU:HD21	1.99	0.43
1:6:278:ILE:HG12	1:m:290:GLN:OE1	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:83:ILE:HG22	1:3:85:TRP:HB3	2.00	0.43
1:a:126:TYR:OH	1:a:271:HIS:CD2	2.71	0.43
1:b:325:LEU:HD12	1:b:365:LEU:HD11	2.00	0.43
1:c:88:MET:HE3	1:c:330:TYR:HE1	1.83	0.43
1:c:105:VAL:O	1:c:105:VAL:HG12	2.18	0.43
1:e:285:PHE:HD2	1:e:287:LEU:HG	1.84	0.43
1:e:325:LEU:HD12	1:e:365:LEU:HD11	2.00	0.43
1:f:278:ILE:HB	1:f:285:PHE:CB	2.48	0.43
1:k:126:TYR:OH	1:k:271:HIS:CD2	2.71	0.43
1:n:278:ILE:HB	1:n:285:PHE:CB	2.48	0.43
1:o:117:LYS:HE3	1:o:117:LYS:HB2	1.73	0.43
1:p:325:LEU:HD12	1:p:365:LEU:HD11	2.00	0.43
1:r:323:ASP:O	1:r:327:ILE:N	2.40	0.43
1:t:159:HIS:NE2	1:t:271:HIS:HD2	2.15	0.43
1:u:83:ILE:HG22	1:u:85:TRP:HB3	2.00	0.43
1:v:184:ARG:NH1	1:v:295:THR:OG1	2.40	0.43
1:y:323:ASP:O	1:y:327:ILE:N	2.40	0.43
1:1:285:PHE:HD2	1:1:287:LEU:HG	1.84	0.43
1:B:126:TYR:OH	1:B:271:HIS:CD2	2.71	0.43
1:C:159:HIS:NE2	1:C:271:HIS:HD2	2.15	0.43
1:G:95:ASN:HB3	1:G:181:SER:O	2.17	0.43
1:H:114:LEU:HD21	1:H:233:ASP:HB3	2.00	0.43
1:I:169:LYS:CD	1:I:343:ASN:HD22	2.25	0.43
1:J:118:ALA:HB2	1:J:327:ILE:CD1	2.48	0.43
1:L:114:LEU:HD21	1:L:233:ASP:HB3	2.00	0.43
1:P:88:MET:HE3	1:P:330:TYR:HE1	1.83	0.43
1:S:83:ILE:HG22	1:S:85:TRP:HB3	2.00	0.43
1:S:184:ARG:NH1	1:S:295:THR:OG1	2.40	0.43
1:U:118:ALA:HB2	1:U:327:ILE:CD1	2.48	0.43
1:V:325:LEU:HD12	1:V:365:LEU:HD11	2.00	0.43
1:V:364:MET:HE2	1:X:366:PHE:HE1	1.84	0.43
1:W:117:LYS:HE3	1:W:117:LYS:HB2	1.73	0.43
1:X:126:TYR:OH	1:X:271:HIS:CD2	2.71	0.43
1:Y:88:MET:HE3	1:Y:330:TYR:HE1	1.83	0.43
1:Y:105:VAL:O	1:Y:105:VAL:HG12	2.18	0.43
1:7:278:ILE:HB	1:7:285:PHE:CB	2.48	0.43
1:6:278:ILE:HB	1:6:285:PHE:CB	2.48	0.43
1:6:285:PHE:HD2	1:6:287:LEU:HG	1.84	0.43
1:4:159:HIS:NE2	1:4:271:HIS:HD2	2.15	0.43
1:a:167:LEU:HD23	1:a:170:VAL:HG22	1.99	0.43
1:a:325:LEU:HD12	1:a:365:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:46:VAL:HG21	1:d:218:LEU:HD21	1.99	0.43
1:c:83:ILE:HG22	1:c:85:TRP:HB3	2.00	0.43
1:d:118:ALA:HB2	1:d:327:ILE:CD1	2.48	0.43
1:e:278:ILE:HB	1:e:285:PHE:CB	2.48	0.43
1:g:118:ALA:HB2	1:g:327:ILE:CD1	2.48	0.43
1:h:285:PHE:HD2	1:h:287:LEU:HG	1.84	0.43
1:l:285:PHE:HD2	1:l:287:LEU:HG	1.84	0.43
1:m:105:VAL:O	1:m:105:VAL:HG12	2.18	0.43
1:n:83:ILE:HG22	1:n:85:TRP:HB3	2.00	0.43
1:o:83:ILE:HG22	1:o:85:TRP:HB3	2.00	0.43
1:o:118:ALA:HB2	1:o:327:ILE:CD1	2.48	0.43
1:q:118:ALA:HB2	1:q:327:ILE:CD1	2.48	0.43
1:q:239:VAL:O	1:q:241:GLN:HG3	2.18	0.43
1:q:278:ILE:HB	1:q:285:PHE:CB	2.48	0.43
1:t:88:MET:HE3	1:t:330:TYR:HE1	1.83	0.43
1:w:194:SER:HA	1:x:317:ASN:HD21	1.83	0.43
1:w:285:PHE:HD2	1:w:287:LEU:HG	1.84	0.43
1:x:105:VAL:O	1:x:105:VAL:HG12	2.18	0.43
1:x:278:ILE:HB	1:x:285:PHE:CB	2.48	0.43
1:B:285:PHE:HD2	1:B:287:LEU:HG	1.84	0.43
1:E:83:ILE:HG22	1:E:85:TRP:HB3	2.00	0.43
1:G:239:VAL:O	1:G:241:GLN:HG3	2.18	0.43
1:G:278:ILE:HB	1:G:285:PHE:CB	2.48	0.43
1:H:290:GLN:OE1	1:I:278:ILE:HG12	2.18	0.43
1:I:159:HIS:NE2	1:I:271:HIS:HD2	2.15	0.43
1:J:285:PHE:HD2	1:J:287:LEU:HG	1.84	0.43
1:K:159:HIS:NE2	1:K:271:HIS:HD2	2.16	0.43
1:M:88:MET:HE3	1:M:330:TYR:HE1	1.83	0.43
1:M:209:ARG:CB	1:7:46:VAL:CG1	2.82	0.43
1:Q:88:MET:HE3	1:Q:330:TYR:HE1	1.83	0.43
1:Q:118:ALA:HB2	1:Q:327:ILE:CD1	2.48	0.43
1:R:117:LYS:HB2	1:R:117:LYS:HE3	1.73	0.43
1:R:167:LEU:HD23	1:R:170:VAL:HG22	1.99	0.43
1:T:105:VAL:HG12	1:T:105:VAL:O	2.18	0.43
1:W:118:ALA:HB2	1:W:327:ILE:CD1	2.48	0.43
1:W:278:ILE:HB	1:W:285:PHE:CB	2.48	0.43
1:X:114:LEU:HD21	1:X:233:ASP:HB3	2.00	0.43
1:X:325:LEU:HD12	1:X:365:LEU:HD11	2.00	0.43
1:Y:114:LEU:HD21	1:Y:233:ASP:HB3	2.00	0.43
1:Y:239:VAL:O	1:Y:241:GLN:HG3	2.18	0.43
1:Z:278:ILE:HB	1:Z:285:PHE:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:88:MET:HE3	1:7:330:TYR:HE1	1.83	0.43
1:6:88:MET:HE3	1:6:330:TYR:HE1	1.83	0.43
1:3:228:PHE:HE2	1:3:230:PHE:HE1	0.79	0.43
1:a:95:ASN:HB3	1:a:181:SER:O	2.17	0.43
1:a:364:MET:HE2	1:b:366:PHE:HE1	1.84	0.43
1:b:126:TYR:OH	1:b:271:HIS:CD2	2.71	0.43
1:e:118:ALA:HB2	1:e:327:ILE:CD1	2.48	0.43
1:g:159:HIS:NE2	1:g:271:HIS:HD2	2.15	0.43
1:h:278:ILE:HB	1:h:285:PHE:CB	2.48	0.43
1:i:88:MET:HE3	1:i:330:TYR:HE1	1.83	0.43
1:j:159:HIS:NE2	1:j:271:HIS:HD2	2.15	0.43
1:k:285:PHE:HD2	1:k:287:LEU:HG	1.84	0.43
1:l:118:ALA:HB2	1:l:327:ILE:CD1	2.48	0.43
1:m:114:LEU:HD21	1:m:233:ASP:HB3	2.00	0.43
1:n:290:GLN:OE1	1:z:278:ILE:HG12	2.18	0.43
1:o:88:MET:HE3	1:o:330:TYR:HE1	1.83	0.43
1:o:159:HIS:NE2	1:o:271:HIS:HD2	2.15	0.43
1:o:239:VAL:O	1:o:241:GLN:HG3	2.18	0.43
1:p:239:VAL:O	1:p:241:GLN:HG3	2.18	0.43
1:q:325:LEU:HD12	1:q:365:LEU:HD11	2.00	0.43
1:r:159:HIS:NE2	1:r:271:HIS:HD2	2.15	0.43
1:t:323:ASP:O	1:t:327:ILE:N	2.40	0.43
1:u:167:LEU:HD23	1:u:170:VAL:HG22	1.99	0.43
1:v:83:ILE:HG22	1:v:85:TRP:HB3	2.00	0.43
1:y:278:ILE:HB	1:y:285:PHE:CB	2.48	0.43
1:y:325:LEU:HD12	1:y:365:LEU:HD11	2.00	0.43
1:2:126:TYR:OH	1:2:271:HIS:CD2	2.71	0.43
1:A:292:THR:HG21	1:E:210:TYR:CE2	2.54	0.43
1:F:239:VAL:O	1:F:241:GLN:HG3	2.18	0.43
1:G:118:ALA:HB2	1:G:327:ILE:CD1	2.48	0.43
1:H:105:VAL:O	1:H:105:VAL:HG12	2.18	0.43
1:H:118:ALA:HB2	1:H:327:ILE:CD1	2.48	0.43
1:K:194:SER:HA	1:2:317:ASN:HD21	1.84	0.43
1:K:285:PHE:HD2	1:K:287:LEU:HG	1.84	0.43
1:L:184:ARG:NH1	1:L:295:THR:OG1	2.40	0.43
1:O:194:SER:HA	1:h:317:ASN:HD21	1.84	0.43
1:P:278:ILE:HB	1:P:285:PHE:CB	2.48	0.43
1:P:323:ASP:O	1:P:327:ILE:N	2.40	0.43
1:S:105:VAL:O	1:S:105:VAL:HG12	2.18	0.43
1:S:278:ILE:HB	1:S:285:PHE:CB	2.48	0.43
1:T:117:LYS:HE3	1:T:117:LYS:HB2	1.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:317:ASN:HD21	1:5:194:SER:HA	1.83	0.43
1:U:95:ASN:HB3	1:U:181:SER:O	2.17	0.43
1:W:184:ARG:NH1	1:W:295:THR:OG1	2.40	0.43
1:8:118:ALA:HB2	1:8:327:ILE:CD1	2.48	0.43
1:5:46:VAL:HG21	1:f:218:LEU:HD21	2.01	0.43
1:5:118:ALA:HB2	1:5:327:ILE:CD1	2.48	0.43
1:4:88:MET:HE3	1:4:330:TYR:HE1	1.83	0.43
1:4:95:ASN:HB3	1:4:181:SER:O	2.17	0.43
1:3:88:MET:HE3	1:3:330:TYR:HE1	1.83	0.43
1:a:117:LYS:HB2	1:a:117:LYS:HE3	1.73	0.43
1:a:290:GLN:OE1	1:u:278:ILE:HG12	2.18	0.43
1:b:114:LEU:HD21	1:b:233:ASP:HB3	2.00	0.43
1:b:128:LEU:HG	1:b:291:PHE:CD1	2.54	0.43
1:c:239:VAL:O	1:c:241:GLN:HG3	2.18	0.43
1:f:114:LEU:HD21	1:f:233:ASP:HB3	2.00	0.43
1:k:133:LEU:N	1:k:213:GLN:HE21	1.97	0.43
1:p:292:THR:HG21	1:q:210:TYR:CE2	2.54	0.43
1:q:95:ASN:HB3	1:q:181:SER:O	2.17	0.43
1:r:169:LYS:CD	1:r:343:ASN:HD22	2.25	0.43
1:t:118:ALA:HB2	1:t:327:ILE:CD1	2.48	0.43
1:t:126:TYR:OH	1:t:271:HIS:CD2	2.71	0.43
1:v:278:ILE:HB	1:v:285:PHE:CB	2.48	0.43
1:1:117:LYS:HB2	1:1:117:LYS:HE3	1.73	0.43
1:A:159:HIS:NE2	1:A:271:HIS:HD2	2.15	0.43
1:A:278:ILE:HB	1:A:285:PHE:CB	2.48	0.43
1:C:117:LYS:HE3	1:C:117:LYS:HB2	1.73	0.43
1:E:285:PHE:HD2	1:E:287:LEU:HG	1.84	0.43
1:G:325:LEU:HD12	1:G:365:LEU:HD11	2.00	0.43
1:J:88:MET:HE3	1:J:330:TYR:HE1	1.83	0.43
1:O:218:LEU:HD21	1:h:46:VAL:HG21	2.01	0.43
1:P:325:LEU:HD12	1:P:365:LEU:HD11	2.00	0.43
1:Q:239:VAL:O	1:Q:241:GLN:HG3	2.18	0.43
1:Q:285:PHE:HD2	1:Q:287:LEU:HG	1.84	0.43
1:U:114:LEU:HD21	1:U:233:ASP:HB3	2.00	0.43
1:U:126:TYR:OH	1:U:271:HIS:CD2	2.71	0.43
1:V:228:PHE:HE2	1:V:230:PHE:HE1	0.79	0.43
1:X:118:ALA:HB2	1:X:327:ILE:CD1	2.48	0.43
1:X:128:LEU:HG	1:X:291:PHE:CD1	2.54	0.43
1:Y:169:LYS:CD	1:Y:343:ASN:HD22	2.25	0.43
1:Y:285:PHE:HD2	1:Y:287:LEU:HG	1.84	0.43
1:Z:114:LEU:HD21	1:Z:233:ASP:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:46:VAL:HG21	1:2:218:LEU:HD21	2.01	0.43
1:8:184:ARG:NH1	1:8:295:THR:OG1	2.40	0.43
1:8:317:ASN:HD21	1:2:194:SER:HA	1.84	0.43
1:7:292:THR:HG21	1:i:210:TYR:CE2	2.54	0.43
1:5:285:PHE:HD2	1:5:287:LEU:HG	1.84	0.43
1:b:118:ALA:HB2	1:b:327:ILE:CD1	2.48	0.43
1:c:114:LEU:HD21	1:c:233:ASP:HB3	2.00	0.43
1:c:128:LEU:HG	1:c:291:PHE:CD1	2.54	0.43
1:d:105:VAL:O	1:d:105:VAL:HG12	2.18	0.43
1:d:239:VAL:O	1:d:241:GLN:HG3	2.18	0.43
1:d:290:GLN:OE1	1:r:278:ILE:HG12	2.18	0.43
1:h:118:ALA:HB2	1:h:327:ILE:CD1	2.48	0.43
1:j:117:LYS:HB2	1:j:117:LYS:HE3	1.73	0.43
1:k:239:VAL:O	1:k:241:GLN:HG3	2.18	0.43
1:l:88:MET:HE3	1:l:330:TYR:HE1	1.83	0.43
1:l:239:VAL:O	1:l:241:GLN:HG3	2.18	0.43
1:o:285:PHE:HD2	1:o:287:LEU:HG	1.84	0.43
1:o:325:LEU:HD12	1:o:365:LEU:HD11	2.00	0.43
1:r:278:ILE:HB	1:r:285:PHE:CB	2.48	0.43
1:t:83:ILE:HG22	1:t:85:TRP:HB3	2.00	0.43
1:v:105:VAL:O	1:v:105:VAL:HG12	2.18	0.43
1:v:133:LEU:N	1:v:213:GLN:HE21	1.97	0.43
1:w:118:ALA:HB2	1:w:327:ILE:CD1	2.48	0.43
1:w:239:VAL:O	1:w:241:GLN:HG3	2.18	0.43
1:1:105:VAL:HG12	1:1:105:VAL:O	2.18	0.43
1:2:325:LEU:HD12	1:2:365:LEU:HD11	2.00	0.43
1:A:218:LEU:HD21	1:I:46:VAL:HG21	1.99	0.43
1:B:239:VAL:O	1:B:241:GLN:HG3	2.18	0.43
1:C:366:PHE:HE1	1:7:364:MET:HE2	1.84	0.43
1:D:194:SER:HA	1:P:317:ASN:HD21	1.83	0.43
1:D:278:ILE:HG12	1:E:290:GLN:OE1	2.18	0.43
1:D:285:PHE:HD2	1:D:287:LEU:HG	1.83	0.43
1:I:278:ILE:HB	1:I:285:PHE:CB	2.48	0.43
1:I:323:ASP:O	1:I:327:ILE:N	2.40	0.43
1:J:239:VAL:O	1:J:241:GLN:HG3	2.18	0.43
1:K:278:ILE:HB	1:K:285:PHE:CB	2.48	0.43
1:L:128:LEU:HG	1:L:291:PHE:CD1	2.54	0.43
1:M:290:GLN:OE1	1:N:278:ILE:HG12	2.18	0.43
1:N:105:VAL:O	1:N:105:VAL:HG12	2.18	0.43
1:O:128:LEU:HG	1:O:291:PHE:CD1	2.54	0.43
1:O:243:ASN:C	1:h:258:ILE:HG22	2.44	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:317:ASN:HD21	1:g:194:SER:HA	1.84	0.43
1:O:325:LEU:HD12	1:O:365:LEU:HD11	2.00	0.43
1:Q:325:LEU:HD12	1:Q:365:LEU:HD11	2.00	0.43
1:T:194:SER:HA	1:f:317:ASN:HD21	1.84	0.43
1:U:128:LEU:HG	1:U:291:PHE:CD1	2.54	0.43
1:V:118:ALA:HB2	1:V:327:ILE:CD1	2.48	0.43
1:Y:128:LEU:HG	1:Y:291:PHE:CD1	2.54	0.43
1:Z:218:LEU:HD21	1:w:46:VAL:HG21	2.01	0.43
1:Z:317:ASN:HD21	1:x:194:SER:HA	1.84	0.43
1:8:258:ILE:HG22	1:2:243:ASN:C	2.44	0.43
1:5:239:VAL:O	1:5:241:GLN:HG3	2.18	0.43
1:3:95:ASN:HB3	1:3:181:SER:O	2.17	0.43
1:c:117:LYS:HE3	1:c:117:LYS:HB2	1.73	0.43
1:f:239:VAL:O	1:f:241:GLN:HG3	2.18	0.43
1:f:325:LEU:HD12	1:f:365:LEU:HD11	2.00	0.43
1:g:278:ILE:HB	1:g:285:PHE:CB	2.48	0.43
1:i:239:VAL:O	1:i:241:GLN:HG3	2.18	0.43
1:i:366:PHE:HE1	1:j:364:MET:HE2	1.84	0.43
1:j:278:ILE:HG12	1:z:290:GLN:OE1	2.18	0.43
1:m:128:LEU:HG	1:m:291:PHE:CD1	2.54	0.43
1:t:95:ASN:HB3	1:t:181:SER:O	2.17	0.43
1:y:114:LEU:HD21	1:y:233:ASP:HB3	2.00	0.43
1:z:285:PHE:HD2	1:z:287:LEU:HG	1.83	0.43
1:2:128:LEU:HG	1:2:291:PHE:CD1	2.54	0.43
1:C:364:MET:HE2	1:M:366:PHE:HE1	1.84	0.43
1:F:128:LEU:HG	1:F:291:PHE:CD1	2.54	0.43
1:H:239:VAL:O	1:H:241:GLN:HG3	2.18	0.43
1:J:105:VAL:O	1:J:105:VAL:HG12	2.18	0.43
1:J:317:ASN:HD21	1:L:194:SER:HA	1.84	0.43
1:L:285:PHE:HD2	1:L:287:LEU:HG	1.84	0.43
1:M:239:VAL:O	1:M:241:GLN:HG3	2.18	0.43
1:M:278:ILE:HB	1:M:285:PHE:CB	2.48	0.43
1:U:83:ILE:HG22	1:U:85:TRP:HB3	2.00	0.43
1:U:323:ASP:O	1:U:327:ILE:N	2.40	0.43
1:X:285:PHE:HD2	1:X:287:LEU:HG	1.84	0.43
1:Z:325:LEU:HD12	1:Z:365:LEU:HD11	2.00	0.43
1:c:285:PHE:HD2	1:c:287:LEU:HG	1.84	0.43
1:g:285:PHE:HD2	1:g:287:LEU:HG	1.84	0.43
1:i:278:ILE:HB	1:i:285:PHE:CB	2.48	0.43
1:k:278:ILE:HB	1:k:285:PHE:CB	2.48	0.43
1:l:180:VAL:HG12	1:l:339:SER:HG	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:285:PHE:HD2	1:m:287:LEU:HG	1.84	0.43
1:n:105:VAL:O	1:n:105:VAL:HG12	2.18	0.43
1:o:180:VAL:HG12	1:o:339:SER:HG	1.83	0.43
1:p:128:LEU:HG	1:p:291:PHE:CD1	2.54	0.43
1:p:149:THR:HG21	1:q:155:PRO:HG3	2.01	0.43
1:r:46:VAL:HG21	1:s:218:LEU:HD21	2.00	0.43
1:s:159:HIS:NE2	1:s:271:HIS:HD2	2.15	0.43
1:s:278:ILE:HB	1:s:285:PHE:CB	2.48	0.43
1:t:114:LEU:HD21	1:t:233:ASP:HB3	2.00	0.43
1:y:317:ASN:HD21	1:z:194:SER:HA	1.83	0.43
1:z:88:MET:HE3	1:z:330:TYR:HE1	1.83	0.43
1:2:323:ASP:O	1:2:327:ILE:N	2.40	0.43
1:A:83:ILE:HG22	1:A:85:TRP:HB3	2.00	0.43
1:B:278:ILE:HB	1:B:285:PHE:CB	2.48	0.43
1:C:278:ILE:HB	1:C:285:PHE:CB	2.48	0.43
1:E:88:MET:HE3	1:E:330:TYR:HE1	1.83	0.43
1:F:218:LEU:HD21	1:Q:46:VAL:HG21	2.00	0.43
1:H:83:ILE:HG22	1:H:85:TRP:HB3	2.00	0.43
1:H:179:PRO:O	1:H:188:TYR:OH	2.25	0.43
1:I:285:PHE:HD2	1:I:287:LEU:HG	1.84	0.43
1:M:114:LEU:HD21	1:M:233:ASP:HB3	2.00	0.43
1:O:285:PHE:HD2	1:O:287:LEU:HG	1.84	0.43
1:P:114:LEU:HD21	1:P:233:ASP:HB3	2.00	0.43
1:Q:169:LYS:CD	1:Q:343:ASN:HD22	2.25	0.43
1:R:278:ILE:HG12	1:V:290:GLN:OE1	2.18	0.43
1:V:128:LEU:HG	1:V:291:PHE:CD1	2.54	0.43
1:V:285:PHE:HD2	1:V:287:LEU:HG	1.84	0.43
1:X:88:MET:HE3	1:X:330:TYR:HE1	1.83	0.43
1:Y:117:LYS:HE3	1:Y:117:LYS:HB2	1.73	0.43
1:Z:239:VAL:O	1:Z:241:GLN:HG3	2.18	0.43
1:Z:366:PHE:HE1	1:x:364:MET:HE2	1.84	0.43
1:7:239:VAL:O	1:7:241:GLN:HG3	2.18	0.43
1:5:143:GLY:O	1:5:144:THR:OG1	2.25	0.43
1:3:317:ASN:HD21	1:b:194:SER:HA	1.84	0.43
1:a:118:ALA:HB2	1:a:327:ILE:CD1	2.48	0.43
1:a:128:LEU:HG	1:a:291:PHE:CD1	2.54	0.43
1:b:88:MET:HE3	1:b:330:TYR:HE1	1.83	0.43
1:c:169:LYS:CD	1:c:343:ASN:HD22	2.25	0.43
1:i:114:LEU:HD21	1:i:233:ASP:HB3	2.00	0.43
1:i:290:GLN:OE1	1:1:278:ILE:HG12	2.18	0.43
1:j:278:ILE:HB	1:j:285:PHE:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:323:ASP:O	1:k:327:ILE:N	2.40	0.43
1:l:317:ASN:HD21	1:m:194:SER:HA	1.84	0.43
1:n:88:MET:HE3	1:n:330:TYR:HE1	1.83	0.43
1:n:285:PHE:HD2	1:n:287:LEU:HG	1.84	0.43
1:o:278:ILE:HB	1:o:285:PHE:CB	2.48	0.43
1:r:285:PHE:HD2	1:r:287:LEU:HG	1.83	0.43
1:r:325:LEU:HD12	1:r:365:LEU:HD11	2.00	0.43
1:t:128:LEU:HG	1:t:291:PHE:CD1	2.54	0.43
1:v:325:LEU:HD12	1:v:365:LEU:HD11	2.00	0.43
1:x:117:LYS:HE3	1:x:117:LYS:HB2	1.73	0.43
1:y:117:LYS:HE3	1:y:117:LYS:HB2	1.73	0.43
1:z:118:ALA:HB2	1:z:327:ILE:CD1	2.48	0.43
1:1:184:ARG:NH1	1:1:295:THR:OG1	2.40	0.43
1:A:128:LEU:HG	1:A:291:PHE:CD1	2.54	0.42
1:C:278:ILE:HG12	1:D:290:GLN:OE1	2.18	0.42
1:D:88:MET:HE3	1:D:330:TYR:HE1	1.83	0.42
1:E:105:VAL:O	1:E:105:VAL:HG12	2.18	0.42
1:F:278:ILE:HB	1:F:285:PHE:CB	2.48	0.42
1:F:292:THR:HG21	1:G:210:TYR:CE2	2.54	0.42
1:H:128:LEU:HG	1:H:291:PHE:CD1	2.54	0.42
1:I:83:ILE:HG22	1:I:85:TRP:HB3	2.00	0.42
1:J:292:THR:HG21	1:8:210:TYR:CE2	2.54	0.42
1:K:292:THR:HG21	1:L:210:TYR:CE2	2.54	0.42
1:O:323:ASP:O	1:O:327:ILE:N	2.40	0.42
1:Q:278:ILE:HB	1:Q:285:PHE:CB	2.48	0.42
1:R:366:PHE:HE1	1:S:364:MET:HE2	1.84	0.42
1:S:128:LEU:HG	1:S:291:PHE:CD1	2.54	0.42
1:S:325:LEU:HD12	1:S:365:LEU:HD11	2.00	0.42
1:T:292:THR:HG21	1:U:210:TYR:CE2	2.54	0.42
1:T:364:MET:HE2	1:f:366:PHE:HE1	1.84	0.42
1:X:194:SER:HA	1:4:317:ASN:HD21	1.84	0.42
1:8:88:MET:HE3	1:8:330:TYR:HE1	1.83	0.42
1:6:114:LEU:HD21	1:6:233:ASP:HB3	2.00	0.42
1:4:285:PHE:HD2	1:4:287:LEU:HG	1.84	0.42
1:3:285:PHE:HD2	1:3:287:LEU:HG	1.84	0.42
1:b:285:PHE:HD2	1:b:287:LEU:HG	1.84	0.42
1:d:285:PHE:HD2	1:d:287:LEU:HG	1.83	0.42
1:e:184:ARG:NH1	1:e:295:THR:OG1	2.40	0.42
1:g:292:THR:HG21	1:m:210:TYR:CE2	2.54	0.42
1:h:184:ARG:NH1	1:h:295:THR:OG1	2.40	0.42
1:i:325:LEU:HD12	1:i:365:LEU:HD11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:194:SER:HA	1:m:317:ASN:HD21	1.84	0.42
1:l:105:VAL:O	1:l:105:VAL:HG12	2.18	0.42
1:n:210:TYR:CE2	1:s:292:THR:HG21	2.54	0.42
1:p:278:ILE:HB	1:p:285:PHE:CB	2.48	0.42
1:r:83:ILE:HG22	1:r:85:TRP:HB3	2.00	0.42
1:s:83:ILE:HG22	1:s:85:TRP:HB3	2.00	0.42
1:s:128:LEU:HG	1:s:291:PHE:CD1	2.54	0.42
1:t:285:PHE:HD2	1:t:287:LEU:HG	1.84	0.42
1:t:317:ASN:HD21	1:u:194:SER:HA	1.84	0.42
1:v:128:LEU:HG	1:v:291:PHE:CD1	2.54	0.42
1:x:239:VAL:O	1:x:241:GLN:HG3	2.18	0.42
1:y:210:TYR:CE2	1:2:292:THR:HG21	2.54	0.42
1:2:285:PHE:HD2	1:2:287:LEU:HG	1.84	0.42
1:A:366:PHE:HE1	1:G:364:MET:HE2	1.85	0.42
1:B:133:LEU:N	1:B:213:GLN:HE21	1.97	0.42
1:B:194:SER:HA	1:L:317:ASN:HD21	1.84	0.42
1:C:128:LEU:HG	1:C:291:PHE:CD1	2.54	0.42
1:D:83:ILE:HG22	1:D:85:TRP:HB3	2.00	0.42
1:D:118:ALA:HB2	1:D:327:ILE:CD1	2.48	0.42
1:I:128:LEU:HG	1:I:291:PHE:CD1	2.54	0.42
1:J:366:PHE:HE1	1:L:364:MET:HE2	1.84	0.42
1:K:88:MET:HE3	1:K:330:TYR:HE1	1.83	0.42
1:L:71:ASN:ND2	1:7:279:ARG:HG3	2.34	0.42
1:N:134:THR:HA	1:N:149:THR:HA	2.01	0.42
1:O:83:ILE:HG22	1:O:85:TRP:HB3	2.00	0.42
1:O:278:ILE:HB	1:O:285:PHE:CB	2.48	0.42
1:O:292:THR:HG21	1:P:210:TYR:CE2	2.54	0.42
1:R:194:SER:HA	1:U:317:ASN:HD21	1.84	0.42
1:R:317:ASN:HD21	1:S:194:SER:HA	1.84	0.42
1:S:285:PHE:HD2	1:S:287:LEU:HG	1.84	0.42
1:S:292:THR:HG21	1:5:210:TYR:CE2	2.54	0.42
1:T:239:VAL:O	1:T:241:GLN:HG3	2.18	0.42
1:T:325:LEU:HD12	1:T:365:LEU:HD11	2.00	0.42
1:7:114:LEU:HD21	1:7:233:ASP:HB3	2.00	0.42
1:6:239:VAL:O	1:6:241:GLN:HG3	2.18	0.42
1:5:128:LEU:HG	1:5:291:PHE:CD1	2.54	0.42
1:5:317:ASN:HD21	1:f:194:SER:HA	1.84	0.42
1:4:292:THR:HG21	1:b:210:TYR:CE2	2.54	0.42
1:a:134:THR:HA	1:a:149:THR:HA	2.01	0.42
1:a:228:PHE:HE2	1:a:230:PHE:HE1	0.79	0.42
1:a:285:PHE:HD2	1:a:287:LEU:HG	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:317:ASN:HD21	1:d:194:SER:HA	1.84	0.42
1:d:83:ILE:HG22	1:d:85:TRP:HB3	2.00	0.42
1:d:128:LEU:HG	1:d:291:PHE:CD1	2.54	0.42
1:i:292:THR:HG21	1:1:210:TYR:CE2	2.55	0.42
1:j:128:LEU:HG	1:j:291:PHE:CD1	2.54	0.42
1:l:278:ILE:HB	1:l:285:PHE:CB	2.48	0.42
1:n:117:LYS:HE3	1:n:117:LYS:HB2	1.73	0.42
1:q:194:SER:HA	1:s:317:ASN:HD21	1.84	0.42
1:t:210:TYR:CE2	1:x:292:THR:HG21	2.55	0.42
1:z:83:ILE:HG22	1:z:85:TRP:HB3	2.00	0.42
1:1:114:LEU:HD21	1:1:233:ASP:HB3	2.00	0.42
1:1:134:THR:HA	1:1:149:THR:HA	2.01	0.42
1:2:83:ILE:HG22	1:2:85:TRP:HB3	2.00	0.42
1:B:366:PHE:HE1	1:J:364:MET:HE2	1.84	0.42
1:C:47:TRP:HZ3	1:7:210:TYR:CE2	2.37	0.42
1:D:258:ILE:HG22	1:N:243:ASN:C	2.45	0.42
1:E:117:LYS:HB2	1:E:117:LYS:HE3	1.73	0.42
1:G:128:LEU:HG	1:G:291:PHE:CD1	2.54	0.42
1:G:317:ASN:HD21	1:I:194:SER:HA	1.83	0.42
1:H:285:PHE:HD2	1:H:287:LEU:HG	1.84	0.42
1:H:317:ASN:HD21	1:W:194:SER:HA	1.83	0.42
1:I:134:THR:HA	1:I:149:THR:HA	2.02	0.42
1:I:325:LEU:HD12	1:I:365:LEU:HD11	2.00	0.42
1:J:278:ILE:HB	1:J:285:PHE:CB	2.48	0.42
1:M:83:ILE:HG22	1:M:85:TRP:HB3	2.00	0.42
1:M:210:TYR:CE2	1:6:292:THR:HG21	2.55	0.42
1:M:292:THR:HG21	1:N:210:TYR:CE2	2.55	0.42
1:M:325:LEU:HD12	1:M:365:LEU:HD11	2.00	0.42
1:N:114:LEU:HD21	1:N:233:ASP:HB3	2.00	0.42
1:P:83:ILE:HG22	1:P:85:TRP:HB3	2.00	0.42
1:P:128:LEU:HG	1:P:291:PHE:CD1	2.54	0.42
1:R:128:LEU:HG	1:R:291:PHE:CD1	2.54	0.42
1:V:134:THR:HA	1:V:149:THR:HA	2.01	0.42
1:V:194:SER:HA	1:X:317:ASN:HD21	1.84	0.42
1:V:210:TYR:CE2	1:W:292:THR:HG21	2.54	0.42
1:8:83:ILE:HG22	1:8:85:TRP:HB3	2.00	0.42
1:7:128:LEU:HG	1:7:291:PHE:CD1	2.54	0.42
1:6:128:LEU:HG	1:6:291:PHE:CD1	2.54	0.42
1:3:210:TYR:CE2	1:t:292:THR:HG21	2.55	0.42
1:a:194:SER:HA	1:b:317:ASN:HD21	1.84	0.42
1:c:143:GLY:O	1:c:144:THR:OG1	2.25	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:243:ASN:C	1:e:258:ILE:HG22	2.45	0.42
1:e:323:ASP:O	1:e:327:ILE:N	2.40	0.42
1:g:88:MET:HE3	1:g:330:TYR:HE1	1.83	0.42
1:g:128:LEU:HG	1:g:291:PHE:CD1	2.54	0.42
1:g:239:VAL:O	1:g:241:GLN:HG3	2.18	0.42
1:h:83:ILE:HG22	1:h:85:TRP:HB3	2.00	0.42
1:h:88:MET:HE3	1:h:330:TYR:HE1	1.83	0.42
1:h:210:TYR:CE2	1:l:292:THR:HG21	2.54	0.42
1:i:83:ILE:HG22	1:i:85:TRP:HB3	2.00	0.42
1:k:366:PHE:HE1	1:l:364:MET:HE2	1.84	0.42
1:l:366:PHE:HE1	1:m:364:MET:HE2	1.85	0.42
1:n:134:THR:HA	1:n:149:THR:HA	2.01	0.42
1:o:169:LYS:CD	1:o:343:ASN:HD22	2.25	0.42
1:q:134:THR:HA	1:q:149:THR:HA	2.01	0.42
1:r:128:LEU:HG	1:r:291:PHE:CD1	2.54	0.42
1:t:209:ARG:CB	1:v:46:VAL:CG1	2.84	0.42
1:u:317:ASN:HD21	1:v:194:SER:HA	1.84	0.42
1:u:366:PHE:HE1	1:v:364:MET:HE2	1.84	0.42
1:v:285:PHE:HD2	1:v:287:LEU:HG	1.84	0.42
1:w:128:LEU:HG	1:w:291:PHE:CD1	2.54	0.42
1:y:128:LEU:HG	1:y:291:PHE:CD1	2.54	0.42
1:A:155:PRO:HG3	1:B:149:THR:HG21	2.01	0.42
1:A:285:PHE:HD2	1:A:287:LEU:HG	1.84	0.42
1:A:317:ASN:HD21	1:G:194:SER:HA	1.85	0.42
1:B:128:LEU:HG	1:B:291:PHE:CD1	2.54	0.42
1:G:134:THR:HA	1:G:149:THR:HA	2.02	0.42
1:H:155:PRO:HG3	1:Z:149:THR:HG21	2.02	0.42
1:H:194:SER:HA	1:Y:317:ASN:HD21	1.84	0.42
1:H:325:LEU:HD12	1:H:365:LEU:HD11	2.00	0.42
1:J:83:ILE:HG22	1:J:85:TRP:HB3	2.00	0.42
1:K:128:LEU:HG	1:K:291:PHE:CD1	2.54	0.42
1:K:239:VAL:O	1:K:241:GLN:HG3	2.18	0.42
1:M:128:LEU:HG	1:M:291:PHE:CD1	2.54	0.42
1:M:285:PHE:HD2	1:M:287:LEU:HG	1.84	0.42
1:P:134:THR:HA	1:P:149:THR:HA	2.01	0.42
1:P:179:PRO:O	1:P:188:TYR:OH	2.25	0.42
1:U:285:PHE:HD2	1:U:287:LEU:HG	1.84	0.42
1:U:292:THR:HG21	1:4:210:TYR:CE2	2.55	0.42
1:W:258:ILE:HG22	1:Y:243:ASN:C	2.45	0.42
1:Y:143:GLY:O	1:Y:144:THR:OG1	2.25	0.42
1:8:105:VAL:O	1:8:105:VAL:HG12	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:83:ILE:HG22	1:7:85:TRP:HB3	2.00	0.42
1:4:134:THR:HA	1:4:149:THR:HA	2.01	0.42
1:4:149:THR:HG21	1:b:155:PRO:HG3	2.02	0.42
1:3:134:THR:HA	1:3:149:THR:HA	2.01	0.42
1:d:317:ASN:HD21	1:e:194:SER:HA	1.83	0.42
1:d:325:LEU:HD12	1:d:365:LEU:HD11	2.00	0.42
1:e:88:MET:HE3	1:e:330:TYR:HE1	1.83	0.42
1:i:128:LEU:HG	1:i:291:PHE:CD1	2.54	0.42
1:j:83:ILE:HG22	1:j:85:TRP:HB3	2.00	0.42
1:j:134:THR:HA	1:j:149:THR:HA	2.01	0.42
1:k:128:LEU:HG	1:k:291:PHE:CD1	2.54	0.42
1:l:46:VAL:CG1	1:m:209:ARG:CB	2.84	0.42
1:n:194:SER:HA	1:p:317:ASN:HD21	1.84	0.42
1:o:46:VAL:HG21	1:p:218:LEU:HD21	2.00	0.42
1:o:155:PRO:HG3	1:y:149:THR:HG21	2.02	0.42
1:q:317:ASN:HD21	1:r:194:SER:HA	1.83	0.42
1:r:134:THR:HA	1:r:149:THR:HA	2.02	0.42
1:u:128:LEU:HG	1:u:291:PHE:CD1	2.54	0.42
1:v:292:THR:HG21	1:w:210:TYR:CE2	2.54	0.42
1:x:325:LEU:HD12	1:x:365:LEU:HD11	2.00	0.42
1:y:83:ILE:HG22	1:y:85:TRP:HB3	2.00	0.42
1:y:134:THR:HA	1:y:149:THR:HA	2.01	0.42
1:A:149:THR:HG21	1:E:155:PRO:HG3	2.02	0.42
1:B:323:ASP:O	1:B:327:ILE:N	2.40	0.42
1:C:134:THR:HA	1:C:149:THR:HA	2.01	0.42
1:D:317:ASN:HD21	1:N:194:SER:HA	1.84	0.42
1:E:134:THR:HA	1:E:149:THR:HA	2.02	0.42
1:E:194:SER:HA	1:F:317:ASN:HD21	1.84	0.42
1:E:317:ASN:HD21	1:Q:194:SER:HA	1.83	0.42
1:N:184:ARG:NH1	1:N:295:THR:OG1	2.40	0.42
1:P:149:THR:HG21	1:Q:155:PRO:HG3	2.02	0.42
1:P:285:PHE:HD2	1:P:287:LEU:HG	1.84	0.42
1:R:285:PHE:HD2	1:R:287:LEU:HG	1.84	0.42
1:W:88:MET:HE3	1:W:330:TYR:HE1	1.83	0.42
1:X:83:ILE:HG22	1:X:85:TRP:HB3	2.00	0.42
1:X:155:PRO:HG3	1:3:149:THR:HG21	2.02	0.42
1:X:179:PRO:O	1:X:188:TYR:OH	2.25	0.42
1:X:210:TYR:CE2	1:3:292:THR:HG21	2.55	0.42
1:Y:278:ILE:HB	1:Y:285:PHE:CB	2.48	0.42
1:Z:194:SER:HA	1:w:317:ASN:HD21	1.84	0.42
1:7:134:THR:HA	1:7:149:THR:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:83:ILE:HG22	1:6:85:TRP:HB3	2.00	0.42
1:6:134:THR:HA	1:6:149:THR:HA	2.01	0.42
1:a:210:TYR:CE2	1:e:292:THR:HG21	2.54	0.42
1:a:323:ASP:O	1:a:327:ILE:N	2.40	0.42
1:d:155:PRO:HG3	1:f:149:THR:HG21	2.02	0.42
1:d:179:PRO:O	1:d:188:TYR:OH	2.25	0.42
1:e:128:LEU:HG	1:e:291:PHE:CD1	2.54	0.42
1:h:105:VAL:O	1:h:105:VAL:HG12	2.18	0.42
1:i:285:PHE:HD2	1:i:287:LEU:HG	1.83	0.42
1:j:285:PHE:HD2	1:j:287:LEU:HG	1.84	0.42
1:l:83:ILE:HG22	1:l:85:TRP:HB3	2.00	0.42
1:m:246:MET:HB2	1:m:332:SER:OG	2.20	0.42
1:n:243:ASN:C	1:p:258:ILE:HG22	2.45	0.42
1:n:317:ASN:HD21	1:o:194:SER:HA	1.83	0.42
1:r:182:SER:OG	1:r:187:ASP:OD2	2.23	0.42
1:r:366:PHE:HE1	1:s:364:MET:HE2	1.84	0.42
1:u:285:PHE:HD2	1:u:287:LEU:HG	1.84	0.42
1:y:285:PHE:HD2	1:y:287:LEU:HG	1.83	0.42
1:z:258:ILE:HG22	1:1:243:ASN:C	2.45	0.42
1:2:246:MET:HB2	1:2:332:SER:OG	2.20	0.42
1:2:278:ILE:HB	1:2:285:PHE:CB	2.49	0.42
1:B:134:THR:HA	1:B:149:THR:HA	2.01	0.42
1:C:83:ILE:HG22	1:C:85:TRP:HB3	2.00	0.42
1:C:258:ILE:HG22	1:7:243:ASN:C	2.45	0.42
1:D:243:ASN:C	1:P:258:ILE:HG22	2.45	0.42
1:F:194:SER:HA	1:Q:317:ASN:HD21	1.85	0.42
1:G:246:MET:HB2	1:G:332:SER:OG	2.20	0.42
1:H:134:THR:HA	1:H:149:THR:HA	2.01	0.42
1:H:278:ILE:HB	1:H:285:PHE:CB	2.48	0.42
1:I:105:VAL:O	1:I:105:VAL:HG12	2.18	0.42
1:L:246:MET:HB2	1:L:332:SER:OG	2.20	0.42
1:O:246:MET:HB2	1:O:332:SER:OG	2.20	0.42
1:R:184:ARG:NH1	1:R:295:THR:OG1	2.40	0.42
1:8:228:PHE:HE2	1:8:230:PHE:HE1	0.79	0.42
1:6:210:TYR:CE2	1:m:292:THR:HG21	2.55	0.42
1:4:169:LYS:CD	1:4:343:ASN:HD22	2.25	0.42
1:b:83:ILE:HG22	1:b:85:TRP:HB3	2.00	0.42
1:c:258:ILE:HG22	1:d:243:ASN:C	2.45	0.42
1:c:278:ILE:HB	1:c:285:PHE:CB	2.48	0.42
1:e:210:TYR:CE2	1:q:292:THR:HG21	2.54	0.42
1:f:285:PHE:HD2	1:f:287:LEU:HG	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:179:PRO:O	1:g:188:TYR:OH	2.25	0.42
1:h:128:LEU:HG	1:h:291:PHE:CD1	2.54	0.42
1:k:134:THR:HA	1:k:149:THR:HA	2.01	0.42
1:q:128:LEU:HG	1:q:291:PHE:CD1	2.54	0.42
1:q:246:MET:HB2	1:q:332:SER:OG	2.20	0.42
1:q:364:MET:HE2	1:s:366:PHE:HE1	1.85	0.42
1:s:285:PHE:HD2	1:s:287:LEU:HG	1.84	0.42
1:t:117:LYS:HB2	1:t:117:LYS:HE3	1.73	0.42
1:u:184:ARG:NH1	1:u:295:THR:OG1	2.40	0.42
1:y:258:ILE:HG22	1:z:243:ASN:C	2.45	0.42
1:z:317:ASN:HD21	1:1:194:SER:HA	1.84	0.42
1:A:364:MET:HE2	1:I:366:PHE:HE1	1.84	0.42
1:C:285:PHE:HD2	1:C:287:LEU:HG	1.84	0.42
1:D:128:LEU:HG	1:D:291:PHE:CD1	2.54	0.42
1:D:134:THR:HA	1:D:149:THR:HA	2.01	0.42
1:E:128:LEU:HG	1:E:291:PHE:CD1	2.54	0.42
1:E:258:ILE:HG22	1:Q:243:ASN:C	2.45	0.42
1:F:149:THR:HG21	1:G:155:PRO:HG3	2.02	0.42
1:F:210:TYR:CE2	1:R:292:THR:HG21	2.55	0.42
1:G:292:THR:HG21	1:W:210:TYR:CE2	2.54	0.42
1:H:110:TYR:OH	1:H:233:ASP:HA	2.20	0.42
1:H:243:ASN:C	1:Y:258:ILE:HG22	2.45	0.42
1:K:210:TYR:CE2	1:1:292:THR:HG21	2.54	0.42
1:N:88:MET:HE3	1:N:330:TYR:HE1	1.83	0.42
1:O:110:TYR:OH	1:O:233:ASP:HA	2.20	0.42
1:U:149:THR:HG21	1:4:155:PRO:HG3	2.02	0.42
1:V:88:MET:HE3	1:V:330:TYR:HE1	1.83	0.42
1:V:246:MET:HB2	1:V:332:SER:OG	2.20	0.42
1:W:128:LEU:HG	1:W:291:PHE:CD1	2.54	0.42
1:W:323:ASP:O	1:W:327:ILE:N	2.40	0.42
1:Z:134:THR:HA	1:Z:149:THR:HA	2.02	0.42
1:Z:246:MET:HB2	1:Z:332:SER:OG	2.20	0.42
1:8:128:LEU:HG	1:8:291:PHE:CD1	2.54	0.42
1:6:194:SER:HA	1:j:317:ASN:HD21	1.84	0.42
1:3:169:LYS:CD	1:3:343:ASN:HD22	2.25	0.42
1:a:88:MET:HE3	1:a:330:TYR:HE1	1.83	0.42
1:a:246:MET:HB2	1:a:332:SER:OG	2.20	0.42
1:c:194:SER:HA	1:e:317:ASN:HD21	1.84	0.42
1:d:110:TYR:OH	1:d:233:ASP:HA	2.20	0.42
1:d:134:THR:HA	1:d:149:THR:HA	2.01	0.42
1:d:278:ILE:HB	1:d:285:PHE:CB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:134:THR:HA	1:f:149:THR:HA	2.01	0.42
1:f:169:LYS:CD	1:f:343:ASN:HD22	2.25	0.42
1:i:317:ASN:HD21	1:j:194:SER:HA	1.84	0.42
1:j:122:THR:O	1:j:224:LEU:HB2	2.20	0.42
1:m:228:PHE:HE2	1:m:230:PHE:HE1	0.79	0.42
1:n:128:LEU:HG	1:n:291:PHE:CD1	2.54	0.42
1:n:258:ILE:HG22	1:o:243:ASN:C	2.45	0.42
1:r:105:VAL:O	1:r:105:VAL:HG12	2.18	0.42
1:t:278:ILE:HB	1:t:285:PHE:CB	2.48	0.42
1:y:228:PHE:HE2	1:y:230:PHE:HE1	0.79	0.42
1:1:88:MET:HE3	1:1:330:TYR:HE1	1.83	0.42
1:2:110:TYR:OH	1:2:233:ASP:HA	2.20	0.42
1:A:122:THR:O	1:A:224:LEU:HB2	2.20	0.42
1:C:122:THR:O	1:C:224:LEU:HB2	2.20	0.42
1:C:361:LYS:HE2	1:C:363:SER:O	2.20	0.42
1:D:364:MET:HE2	1:P:366:PHE:HE1	1.85	0.42
1:F:88:MET:HE3	1:F:330:TYR:HE1	1.83	0.42
1:J:134:THR:HA	1:J:149:THR:HA	2.02	0.42
1:J:361:LYS:HE2	1:J:363:SER:O	2.20	0.42
1:M:246:MET:HB2	1:M:332:SER:OG	2.20	0.42
1:N:246:MET:HB2	1:N:332:SER:OG	2.20	0.42
1:N:292:THR:HG21	1:g:210:TYR:CE2	2.54	0.42
1:T:258:ILE:HG22	1:5:243:ASN:C	2.44	0.42
1:U:278:ILE:HB	1:U:285:PHE:CB	2.48	0.42
1:V:110:TYR:OH	1:V:233:ASP:HA	2.20	0.42
1:X:110:TYR:OH	1:X:233:ASP:HA	2.20	0.42
1:X:169:LYS:CD	1:X:343:ASN:HD22	2.25	0.42
1:X:243:ASN:C	1:4:258:ILE:HG22	2.45	0.42
1:Y:361:LYS:HE2	1:Y:363:SER:O	2.20	0.42
1:4:128:LEU:HG	1:4:291:PHE:CD1	2.54	0.42
1:3:117:LYS:HE3	1:3:117:LYS:HB2	1.73	0.42
1:3:258:ILE:HG22	1:b:243:ASN:C	2.45	0.42
1:b:246:MET:HB2	1:b:332:SER:OG	2.20	0.42
1:c:246:MET:HB2	1:c:332:SER:OG	2.20	0.42
1:c:361:LYS:HE2	1:c:363:SER:O	2.20	0.42
1:d:292:THR:HG21	1:r:210:TYR:CE2	2.55	0.42
1:f:210:TYR:CE2	1:h:292:THR:HG21	2.55	0.42
1:f:246:MET:HB2	1:f:332:SER:OG	2.20	0.42
1:g:258:ILE:HG22	1:h:243:ASN:C	2.44	0.42
1:h:361:LYS:HE2	1:h:363:SER:O	2.20	0.42
1:j:361:LYS:HE2	1:j:363:SER:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:149:THR:HG21	1:s:155:PRO:HG3	2.02	0.42
1:l:134:THR:HA	1:l:149:THR:HA	2.02	0.42
1:l:361:LYS:HE2	1:l:363:SER:O	2.20	0.42
1:m:110:TYR:OH	1:m:233:ASP:HA	2.20	0.42
1:p:88:MET:HE3	1:p:330:TYR:HE1	1.83	0.42
1:p:134:THR:HA	1:p:149:THR:HA	2.01	0.42
1:s:169:LYS:CD	1:s:343:ASN:HD22	2.25	0.42
1:v:122:THR:O	1:v:224:LEU:HB2	2.20	0.42
1:y:366:PHE:HE1	1:z:364:MET:HE2	1.85	0.42
1:z:128:LEU:HG	1:z:291:PHE:CD1	2.54	0.42
1:z:134:THR:HA	1:z:149:THR:HA	2.01	0.42
1:1:110:TYR:OH	1:1:233:ASP:HA	2.20	0.42
1:C:110:TYR:OH	1:C:233:ASP:HA	2.20	0.42
1:C:155:PRO:HG3	1:D:149:THR:HG21	2.02	0.42
1:C:210:TYR:CE2	1:D:292:THR:HG21	2.54	0.42
1:F:134:THR:HA	1:F:149:THR:HA	2.01	0.42
1:J:46:VAL:CG1	1:L:209:ARG:CB	2.84	0.42
1:K:258:ILE:HG22	1:8:243:ASN:C	2.44	0.42
1:M:122:THR:O	1:M:224:LEU:HB2	2.20	0.42
1:N:110:TYR:OH	1:N:233:ASP:HA	2.20	0.42
1:N:122:THR:O	1:N:224:LEU:HB2	2.20	0.42
1:N:128:LEU:HG	1:N:291:PHE:CD1	2.54	0.42
1:N:317:ASN:HD21	1:P:194:SER:HA	1.84	0.42
1:N:361:LYS:HE2	1:N:363:SER:O	2.20	0.42
1:Q:180:VAL:HG12	1:Q:339:SER:HG	1.84	0.42
1:S:122:THR:O	1:S:224:LEU:HB2	2.20	0.42
1:W:317:ASN:HD21	1:Y:194:SER:HA	1.84	0.42
1:X:246:MET:HB2	1:X:332:SER:OG	2.20	0.42
1:Y:246:MET:HB2	1:Y:332:SER:OG	2.20	0.42
1:Z:285:PHE:HD2	1:Z:287:LEU:HG	1.84	0.42
1:8:105:VAL:O	1:w:311:ILE:HG23	2.20	0.42
1:8:122:THR:O	1:8:224:LEU:HB2	2.20	0.42
1:8:361:LYS:HE2	1:8:363:SER:O	2.20	0.42
1:5:105:VAL:O	1:h:311:ILE:HG23	2.20	0.42
1:5:110:TYR:OH	1:5:233:ASP:HA	2.20	0.42
1:5:246:MET:HB2	1:5:332:SER:OG	2.20	0.42
1:5:311:ILE:HG23	1:h:105:VAL:O	2.20	0.42
1:3:155:PRO:HG3	1:t:149:THR:HG21	2.02	0.42
1:3:194:SER:HA	1:a:317:ASN:HD21	1.84	0.42
1:a:110:TYR:OH	1:a:233:ASP:HA	2.20	0.42
1:f:128:LEU:HG	1:f:291:PHE:CD1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:122:THR:O	1:i:224:LEU:HB2	2.20	0.42
1:i:149:THR:HG21	1:1:155:PRO:HG3	2.01	0.42
1:i:246:MET:HB2	1:i:332:SER:OG	2.20	0.42
1:k:110:TYR:OH	1:k:233:ASP:HA	2.20	0.42
1:k:292:THR:HG21	1:s:210:TYR:CE2	2.55	0.42
1:n:155:PRO:HG3	1:s:149:THR:HG21	2.02	0.42
1:r:317:ASN:HD21	1:s:194:SER:HA	1.84	0.42
1:s:122:THR:O	1:s:224:LEU:HB2	2.20	0.42
1:u:134:THR:HA	1:u:149:THR:HA	2.01	0.42
1:v:134:THR:HA	1:v:149:THR:HA	2.02	0.42
1:w:246:MET:HB2	1:w:332:SER:OG	2.20	0.42
1:z:361:LYS:HE2	1:z:363:SER:O	2.20	0.42
1:z:366:PHE:HE1	1:1:364:MET:HE2	1.85	0.42
1:1:122:THR:O	1:1:224:LEU:HB2	2.20	0.42
1:1:246:MET:HB2	1:1:332:SER:OG	2.20	0.42
1:A:169:LYS:CD	1:A:343:ASN:HD22	2.25	0.42
1:B:110:TYR:OH	1:B:233:ASP:HA	2.20	0.42
1:C:194:SER:HA	1:M:317:ASN:HD21	1.84	0.42
1:C:242:ASN:ND2	1:C:263:VAL:O	2.53	0.42
1:C:246:MET:HB2	1:C:332:SER:OG	2.20	0.42
1:D:361:LYS:HE2	1:D:363:SER:O	2.20	0.42
1:D:366:PHE:HE1	1:N:364:MET:HE2	1.85	0.42
1:E:243:ASN:C	1:F:258:ILE:HG22	2.45	0.42
1:H:258:ILE:HG22	1:W:243:ASN:C	2.45	0.42
1:H:292:THR:HG21	1:I:210:TYR:CE2	2.55	0.42
1:J:246:MET:HB2	1:J:332:SER:OG	2.20	0.42
1:K:155:PRO:HG3	1:1:149:THR:HG21	2.02	0.42
1:K:361:LYS:HE2	1:K:363:SER:O	2.20	0.42
1:L:110:TYR:OH	1:L:233:ASP:HA	2.20	0.42
1:M:149:THR:HG21	1:N:155:PRO:HG3	2.02	0.42
1:P:110:TYR:OH	1:P:233:ASP:HA	2.20	0.42
1:P:246:MET:HB2	1:P:332:SER:OG	2.20	0.42
1:P:292:THR:HG21	1:Q:210:TYR:CE2	2.55	0.42
1:Q:128:LEU:HG	1:Q:291:PHE:CD1	2.54	0.42
1:R:122:THR:O	1:R:224:LEU:HB2	2.20	0.42
1:R:134:THR:HA	1:R:149:THR:HA	2.01	0.42
1:R:242:ASN:ND2	1:R:263:VAL:O	2.53	0.42
1:S:46:VAL:CG1	1:U:209:ARG:CB	2.84	0.42
1:S:110:TYR:OH	1:S:233:ASP:HA	2.20	0.42
1:S:134:THR:HA	1:S:149:THR:HA	2.02	0.42
1:S:246:MET:HB2	1:S:332:SER:OG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:317:ASN:HD21	1:U:194:SER:HA	1.84	0.42
1:S:361:LYS:HE2	1:S:363:SER:O	2.20	0.42
1:V:323:ASP:O	1:V:327:ILE:N	2.40	0.42
1:V:366:PHE:HE1	1:4:364:MET:HE2	1.85	0.42
1:Z:128:LEU:HG	1:Z:291:PHE:CD1	2.54	0.42
1:Z:169:LYS:CD	1:Z:343:ASN:HD22	2.25	0.42
1:Z:210:TYR:CE2	1:8:292:THR:HG21	2.55	0.42
1:8:134:THR:HA	1:8:149:THR:HA	2.01	0.42
1:8:311:ILE:HG23	1:w:105:VAL:O	2.20	0.42
1:7:246:MET:HB2	1:7:332:SER:OG	2.20	0.42
1:6:155:PRO:HG3	1:m:149:THR:HG21	2.02	0.42
1:6:243:ASN:C	1:j:258:ILE:HG22	2.45	0.42
1:6:246:MET:HB2	1:6:332:SER:OG	2.20	0.42
1:4:117:LYS:HB2	1:4:117:LYS:HE3	1.73	0.42
1:3:128:LEU:HG	1:3:291:PHE:CD1	2.54	0.42
1:3:242:ASN:ND2	1:3:263:VAL:O	2.53	0.42
1:b:110:TYR:OH	1:b:233:ASP:HA	2.20	0.42
1:b:179:PRO:O	1:b:188:TYR:OH	2.25	0.42
1:d:258:ILE:HG22	1:e:243:ASN:C	2.45	0.42
1:e:110:TYR:OH	1:e:233:ASP:HA	2.20	0.42
1:g:361:LYS:HE2	1:g:363:SER:O	2.20	0.42
1:h:134:THR:HA	1:h:149:THR:HA	2.01	0.42
1:j:110:TYR:OH	1:j:233:ASP:HA	2.20	0.42
1:j:155:PRO:HG3	1:z:149:THR:HG21	2.02	0.42
1:j:210:TYR:CE2	1:z:292:THR:HG21	2.54	0.42
1:j:242:ASN:ND2	1:j:263:VAL:O	2.53	0.42
1:j:246:MET:HB2	1:j:332:SER:OG	2.20	0.42
1:o:128:LEU:HG	1:o:291:PHE:CD1	2.54	0.42
1:o:366:PHE:HE1	1:p:364:MET:HE2	1.84	0.42
1:p:246:MET:HB2	1:p:332:SER:OG	2.20	0.42
1:q:285:PHE:HD2	1:q:287:LEU:HG	1.84	0.42
1:t:246:MET:HB2	1:t:332:SER:OG	2.20	0.42
1:u:242:ASN:ND2	1:u:263:VAL:O	2.53	0.42
1:v:88:MET:HE3	1:v:330:TYR:HE1	1.83	0.42
1:v:246:MET:HB2	1:v:332:SER:OG	2.20	0.42
1:v:361:LYS:HE2	1:v:363:SER:O	2.20	0.42
1:w:110:TYR:OH	1:w:233:ASP:HA	2.20	0.42
1:w:169:LYS:CD	1:w:343:ASN:HD22	2.25	0.42
1:w:243:ASN:C	1:x:258:ILE:HG22	2.44	0.42
1:x:128:LEU:HG	1:x:291:PHE:CD1	2.54	0.42
1:y:194:SER:HA	1:1:317:ASN:HD21	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:246:MET:HB2	1:y:332:SER:OG	2.20	0.42
1:1:128:LEU:HG	1:1:291:PHE:CD1	2.54	0.42
1:1:361:LYS:HE2	1:1:363:SER:O	2.20	0.42
1:D:210:TYR:CE2	1:E:292:THR:HG21	2.54	0.41
1:F:246:MET:HB2	1:F:332:SER:OG	2.20	0.41
1:F:285:PHE:HD2	1:F:287:LEU:HG	1.84	0.41
1:G:258:ILE:HG22	1:I:243:ASN:C	2.45	0.41
1:G:361:LYS:HE2	1:G:363:SER:O	2.20	0.41
1:K:134:THR:HA	1:K:149:THR:HA	2.01	0.41
1:L:228:PHE:HE2	1:L:230:PHE:HE1	0.79	0.41
1:M:242:ASN:ND2	1:M:263:VAL:O	2.53	0.41
1:N:149:THR:HG21	1:g:155:PRO:HG3	2.02	0.41
1:P:122:THR:O	1:P:224:LEU:HB2	2.20	0.41
1:P:228:PHE:HE2	1:P:230:PHE:HE1	0.79	0.41
1:Q:242:ASN:ND2	1:Q:263:VAL:O	2.53	0.41
1:R:155:PRO:HG3	1:V:149:THR:HG21	2.02	0.41
1:T:184:ARG:NH1	1:T:295:THR:OG1	2.40	0.41
1:T:210:TYR:CE2	1:c:292:THR:HG21	2.54	0.41
1:U:361:LYS:HE2	1:U:363:SER:O	2.20	0.41
1:V:122:THR:O	1:V:224:LEU:HB2	2.20	0.41
1:W:110:TYR:OH	1:W:233:ASP:HA	2.20	0.41
1:X:134:THR:HA	1:X:149:THR:HA	2.01	0.41
1:Z:110:TYR:OH	1:Z:233:ASP:HA	2.20	0.41
1:Z:242:ASN:ND2	1:Z:263:VAL:O	2.53	0.41
1:4:242:ASN:ND2	1:4:263:VAL:O	2.53	0.41
1:a:122:THR:O	1:a:224:LEU:HB2	2.20	0.41
1:a:149:THR:HG21	1:u:155:PRO:HG3	2.02	0.41
1:c:366:PHE:HE1	1:d:364:MET:HE2	1.85	0.41
1:f:242:ASN:ND2	1:f:263:VAL:O	2.53	0.41
1:g:110:TYR:OH	1:g:233:ASP:HA	2.20	0.41
1:h:323:ASP:O	1:h:327:ILE:N	2.40	0.41
1:l:246:MET:HB2	1:l:332:SER:OG	2.20	0.41
1:o:210:TYR:CE2	1:y:292:THR:HG21	2.55	0.41
1:o:242:ASN:ND2	1:o:263:VAL:O	2.53	0.41
1:p:285:PHE:HD2	1:p:287:LEU:HG	1.84	0.41
1:q:258:ILE:HG22	1:r:243:ASN:C	2.45	0.41
1:q:361:LYS:HE2	1:q:363:SER:O	2.20	0.41
1:t:194:SER:HA	1:v:317:ASN:HD21	1.84	0.41
1:t:361:LYS:HE2	1:t:363:SER:O	2.20	0.41
1:u:122:THR:O	1:u:224:LEU:HB2	2.20	0.41
1:v:110:TYR:OH	1:v:233:ASP:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:122:THR:O	1:w:224:LEU:HB2	2.20	0.41
1:w:323:ASP:O	1:w:327:ILE:N	2.40	0.41
1:x:361:LYS:HE2	1:x:363:SER:O	2.20	0.41
1:y:110:TYR:OH	1:y:233:ASP:HA	2.20	0.41
1:A:210:TYR:CE2	1:B:292:THR:HG21	2.55	0.41
1:B:155:PRO:HG3	1:C:149:THR:HG21	2.02	0.41
1:E:122:THR:O	1:E:224:LEU:HB2	2.20	0.41
1:F:364:MET:HE2	1:Q:366:PHE:HE1	1.85	0.41
1:G:285:PHE:HD2	1:G:287:LEU:HG	1.84	0.41
1:H:242:ASN:ND2	1:H:263:VAL:O	2.53	0.41
1:H:364:MET:HE2	1:Y:366:PHE:HE1	1.85	0.41
1:H:366:PHE:HE1	1:W:364:MET:HE2	1.85	0.41
1:K:243:ASN:C	1:2:258:ILE:HG22	2.45	0.41
1:K:246:MET:HB2	1:K:332:SER:OG	2.20	0.41
1:L:242:ASN:ND2	1:L:263:VAL:O	2.53	0.41
1:M:361:LYS:HE2	1:M:363:SER:O	2.20	0.41
1:Q:122:THR:O	1:Q:224:LEU:HB2	2.20	0.41
1:S:88:MET:HE3	1:S:330:TYR:HE1	1.83	0.41
1:T:128:LEU:HG	1:T:291:PHE:CD1	2.54	0.41
1:T:149:THR:HG21	1:U:155:PRO:HG3	2.02	0.41
1:T:242:ASN:ND2	1:T:263:VAL:O	2.53	0.41
1:T:361:LYS:HE2	1:T:363:SER:O	2.20	0.41
1:U:117:LYS:HB2	1:U:117:LYS:HE3	1.73	0.41
1:U:242:ASN:ND2	1:U:263:VAL:O	2.53	0.41
1:U:246:MET:HB2	1:U:332:SER:OG	2.20	0.41
1:W:366:PHE:HE1	1:Y:364:MET:HE2	1.85	0.41
1:X:242:ASN:ND2	1:X:263:VAL:O	2.53	0.41
1:Y:110:TYR:OH	1:Y:233:ASP:HA	2.20	0.41
1:Y:292:THR:HG21	1:x:210:TYR:CE2	2.54	0.41
1:6:364:MET:HE2	1:j:366:PHE:HE1	1.85	0.41
1:6:366:PHE:HE1	1:i:364:MET:HE2	1.85	0.41
1:5:258:ILE:HG22	1:f:243:ASN:C	2.44	0.41
1:4:361:LYS:HE2	1:4:363:SER:O	2.20	0.41
1:3:110:TYR:OH	1:3:233:ASP:HA	2.20	0.41
1:a:242:ASN:ND2	1:a:263:VAL:O	2.53	0.41
1:b:134:THR:HA	1:b:149:THR:HA	2.01	0.41
1:b:169:LYS:CD	1:b:343:ASN:HD22	2.25	0.41
1:b:242:ASN:ND2	1:b:263:VAL:O	2.53	0.41
1:b:292:THR:HG21	1:c:210:TYR:CE2	2.55	0.41
1:c:110:TYR:OH	1:c:233:ASP:HA	2.20	0.41
1:c:364:MET:HE2	1:e:366:PHE:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:361:LYS:HE2	1:d:363:SER:O	2.20	0.41
1:d:366:PHE:HE1	1:e:364:MET:HE2	1.85	0.41
1:f:110:TYR:OH	1:f:233:ASP:HA	2.20	0.41
1:h:122:THR:O	1:h:224:LEU:HB2	2.20	0.41
1:h:228:PHE:HE2	1:h:230:PHE:HE1	0.79	0.41
1:i:242:ASN:ND2	1:i:263:VAL:O	2.53	0.41
1:j:149:THR:HG21	1:k:155:PRO:HG3	2.02	0.41
1:l:210:TYR:CE2	1:r:292:THR:HG21	2.55	0.41
1:m:242:ASN:ND2	1:m:263:VAL:O	2.53	0.41
1:n:292:THR:HG21	1:z:210:TYR:CE2	2.54	0.41
1:o:122:THR:O	1:o:224:LEU:HB2	2.20	0.41
1:o:317:ASN:HD21	1:p:194:SER:HA	1.85	0.41
1:t:242:ASN:ND2	1:t:263:VAL:O	2.53	0.41
1:t:258:ILE:HG22	1:u:243:ASN:C	2.45	0.41
1:u:323:ASP:O	1:u:327:ILE:N	2.40	0.41
1:x:184:ARG:NH1	1:x:295:THR:OG1	2.40	0.41
1:x:246:MET:HB2	1:x:332:SER:OG	2.20	0.41
1:y:122:THR:O	1:y:224:LEU:HB2	2.20	0.41
1:B:83:ILE:HG22	1:B:85:TRP:HB3	2.00	0.41
1:G:110:TYR:OH	1:G:233:ASP:HA	2.20	0.41
1:G:242:ASN:ND2	1:G:263:VAL:O	2.53	0.41
1:H:361:LYS:HE2	1:H:363:SER:O	2.20	0.41
1:J:128:LEU:HG	1:J:291:PHE:CD1	2.54	0.41
1:K:110:TYR:OH	1:K:233:ASP:HA	2.20	0.41
1:K:122:THR:O	1:K:224:LEU:HB2	2.20	0.41
1:L:292:THR:HG21	1:7:210:TYR:CE2	2.55	0.41
1:M:210:TYR:CD2	1:7:47:TRP:CE3	3.08	0.41
1:N:258:ILE:HG22	1:P:243:ASN:C	2.45	0.41
1:O:366:PHE:HE1	1:g:364:MET:HE2	1.84	0.41
1:P:242:ASN:ND2	1:P:263:VAL:O	2.53	0.41
1:R:361:LYS:HE2	1:R:363:SER:O	2.20	0.41
1:S:169:LYS:CD	1:S:343:ASN:HD22	2.25	0.41
1:T:246:MET:HB2	1:T:332:SER:OG	2.20	0.41
1:V:242:ASN:ND2	1:V:263:VAL:O	2.53	0.41
1:V:317:ASN:HD21	1:4:194:SER:HA	1.85	0.41
1:V:361:LYS:HE2	1:V:363:SER:O	2.20	0.41
1:W:246:MET:HB2	1:W:332:SER:OG	2.20	0.41
1:Z:243:ASN:C	1:w:258:ILE:HG22	2.44	0.41
1:8:242:ASN:ND2	1:8:263:VAL:O	2.53	0.41
1:5:122:THR:O	1:5:224:LEU:HB2	2.20	0.41
1:5:134:THR:HA	1:5:149:THR:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:169:LYS:CD	1:5:343:ASN:HD22	2.25	0.41
1:5:184:ARG:NH1	1:5:295:THR:OG1	2.40	0.41
1:3:364:MET:HE2	1:a:366:PHE:HE1	1.85	0.41
1:d:242:ASN:ND2	1:d:263:VAL:O	2.53	0.41
1:e:169:LYS:CD	1:e:343:ASN:HD22	2.25	0.41
1:g:246:MET:HB2	1:g:332:SER:OG	2.20	0.41
1:i:361:LYS:HE2	1:i:363:SER:O	2.20	0.41
1:n:122:THR:O	1:n:224:LEU:HB2	2.20	0.41
1:o:134:THR:HA	1:o:149:THR:HA	2.01	0.41
1:p:210:TYR:CE2	1:u:292:THR:HG21	2.55	0.41
1:q:242:ASN:ND2	1:q:263:VAL:O	2.53	0.41
1:t:134:THR:HA	1:t:149:THR:HA	2.01	0.41
1:t:155:PRO:HG3	1:x:149:THR:HG21	2.02	0.41
1:t:366:PHE:HE1	1:u:364:MET:HE2	1.85	0.41
1:u:110:TYR:OH	1:u:233:ASP:HA	2.20	0.41
1:u:361:LYS:HE2	1:u:363:SER:O	2.20	0.41
1:v:169:LYS:CD	1:v:343:ASN:HD22	2.25	0.41
1:w:184:ARG:NH1	1:w:295:THR:OG1	2.40	0.41
1:x:242:ASN:ND2	1:x:263:VAL:O	2.53	0.41
1:y:242:ASN:ND2	1:y:263:VAL:O	2.53	0.41
1:y:243:ASN:C	1:1:258:ILE:HG22	2.45	0.41
1:A:87:VAL:HA	1:A:238:TYR:HA	2.03	0.41
1:F:155:PRO:HG3	1:R:149:THR:HG21	2.02	0.41
1:H:46:VAL:CG1	1:W:209:ARG:CB	2.85	0.41
1:H:149:THR:HG21	1:I:155:PRO:HG3	2.02	0.41
1:I:110:TYR:OH	1:I:233:ASP:HA	2.20	0.41
1:I:122:THR:O	1:I:224:LEU:HB2	2.20	0.41
1:I:292:THR:HG21	1:J:210:TYR:CE2	2.55	0.41
1:M:134:THR:HA	1:M:149:THR:HA	2.01	0.41
1:M:155:PRO:HG3	1:6:149:THR:HG21	2.02	0.41
1:O:258:ILE:HG22	1:g:243:ASN:C	2.46	0.41
1:R:110:TYR:OH	1:R:233:ASP:HA	2.20	0.41
1:R:243:ASN:C	1:U:258:ILE:HG22	2.45	0.41
1:R:364:MET:HE2	1:U:366:PHE:HE1	1.85	0.41
1:U:134:THR:HA	1:U:149:THR:HA	2.01	0.41
1:W:169:LYS:CD	1:W:343:ASN:HD22	2.25	0.41
1:X:278:ILE:HB	1:X:285:PHE:CB	2.48	0.41
1:8:323:ASP:O	1:8:327:ILE:N	2.40	0.41
1:8:366:PHE:HE1	1:2:364:MET:HE2	1.85	0.41
1:7:169:LYS:CD	1:7:343:ASN:HD22	2.25	0.41
1:7:361:LYS:HE2	1:7:363:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:169:LYS:CD	1:6:343:ASN:HD22	2.25	0.41
1:5:242:ASN:ND2	1:5:263:VAL:O	2.53	0.41
1:4:110:TYR:OH	1:4:233:ASP:HA	2.20	0.41
1:3:361:LYS:HE2	1:3:363:SER:O	2.20	0.41
1:a:361:LYS:HE2	1:a:363:SER:O	2.20	0.41
1:e:246:MET:HB2	1:e:332:SER:OG	2.20	0.41
1:g:122:THR:O	1:g:224:LEU:HB2	2.20	0.41
1:g:134:THR:HA	1:g:149:THR:HA	2.02	0.41
1:h:242:ASN:ND2	1:h:263:VAL:O	2.53	0.41
1:k:83:ILE:HG22	1:k:85:TRP:HB3	2.00	0.41
1:k:228:PHE:HE2	1:k:230:PHE:HE1	0.79	0.41
1:l:128:LEU:HG	1:l:291:PHE:CD1	2.54	0.41
1:p:155:PRO:HG3	1:u:149:THR:HG21	2.02	0.41
1:q:110:TYR:OH	1:q:233:ASP:HA	2.20	0.41
1:r:122:THR:O	1:r:224:LEU:HB2	2.20	0.41
1:s:179:PRO:O	1:s:188:TYR:OH	2.25	0.41
1:w:134:THR:HA	1:w:149:THR:HA	2.01	0.41
1:y:182:SER:OG	1:y:187:ASP:OD2	2.23	0.41
1:B:228:PHE:HE2	1:B:230:PHE:HE1	0.79	0.41
1:B:258:ILE:HG22	1:J:243:ASN:C	2.46	0.41
1:B:317:ASN:HD21	1:J:194:SER:HA	1.84	0.41
1:E:209:ARG:CB	1:F:46:VAL:CG1	2.84	0.41
1:E:246:MET:HB2	1:E:332:SER:OG	2.20	0.41
1:F:110:TYR:OH	1:F:233:ASP:HA	2.20	0.41
1:F:243:ASN:C	1:Q:258:ILE:HG22	2.45	0.41
1:G:366:PHE:HE1	1:I:364:MET:HE2	1.85	0.41
1:H:210:TYR:CE2	1:Z:292:THR:HG21	2.54	0.41
1:J:242:ASN:ND2	1:J:263:VAL:O	2.53	0.41
1:K:364:MET:HE2	1:2:366:PHE:HE1	1.84	0.41
1:O:364:MET:HE2	1:h:366:PHE:HE1	1.85	0.41
1:Q:292:THR:HG21	1:S:210:TYR:CE2	2.55	0.41
1:S:242:ASN:ND2	1:S:263:VAL:O	2.53	0.41
1:W:122:THR:O	1:W:224:LEU:HB2	2.20	0.41
1:X:292:THR:HG21	1:Y:210:TYR:CE2	2.55	0.41
1:6:258:ILE:HG22	1:i:243:ASN:C	2.45	0.41
1:6:361:LYS:HE2	1:6:363:SER:O	2.20	0.41
1:5:361:LYS:HE2	1:5:363:SER:O	2.20	0.41
1:3:246:MET:HB2	1:3:332:SER:OG	2.20	0.41
1:b:184:ARG:NH1	1:b:295:THR:OG1	2.40	0.41
1:b:278:ILE:HB	1:b:285:PHE:CB	2.49	0.41
1:d:149:THR:HG21	1:r:155:PRO:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:210:TYR:CE2	1:f:292:THR:HG21	2.54	0.41
1:e:122:THR:O	1:e:224:LEU:HB2	2.20	0.41
1:k:122:THR:O	1:k:224:LEU:HB2	2.20	0.41
1:k:246:MET:HB2	1:k:332:SER:OG	2.20	0.41
1:l:110:TYR:OH	1:l:233:ASP:HA	2.20	0.41
1:l:155:PRO:HG3	1:r:149:THR:HG21	2.02	0.41
1:l:242:ASN:ND2	1:l:263:VAL:O	2.53	0.41
1:l:258:ILE:HG22	1:m:243:ASN:C	2.45	0.41
1:m:122:THR:O	1:m:224:LEU:HB2	2.20	0.41
1:n:149:THR:HG21	1:z:155:PRO:HG3	2.02	0.41
1:n:246:MET:HB2	1:n:332:SER:OG	2.20	0.41
1:p:361:LYS:HE2	1:p:363:SER:O	2.20	0.41
1:q:250:GLY:HA2	1:q:331:GLY:HA2	2.03	0.41
1:r:184:ARG:NH1	1:r:295:THR:OG1	2.40	0.41
1:s:87:VAL:HA	1:s:238:TYR:HA	2.03	0.41
1:s:110:TYR:OH	1:s:233:ASP:HA	2.20	0.41
1:s:242:ASN:ND2	1:s:263:VAL:O	2.53	0.41
1:t:122:THR:O	1:t:224:LEU:HB2	2.20	0.41
1:v:242:ASN:ND2	1:v:263:VAL:O	2.53	0.41
1:2:241:GLN:HB2	1:2:243:ASN:HD21	1.86	0.41
1:A:110:TYR:OH	1:A:233:ASP:HA	2.20	0.41
1:A:242:ASN:ND2	1:A:263:VAL:O	2.53	0.41
1:B:210:TYR:CE2	1:C:292:THR:HG21	2.55	0.41
1:B:243:ASN:C	1:L:258:ILE:HG22	2.45	0.41
1:C:47:TRP:CE3	1:7:210:TYR:CD2	3.09	0.41
1:D:155:PRO:HG3	1:E:149:THR:HG21	2.02	0.41
1:D:241:GLN:HB2	1:D:243:ASN:HD21	1.86	0.41
1:G:122:THR:O	1:G:224:LEU:HB2	2.20	0.41
1:I:149:THR:HG21	1:J:155:PRO:HG3	2.02	0.41
1:I:242:ASN:ND2	1:I:263:VAL:O	2.53	0.41
1:J:110:TYR:OH	1:J:233:ASP:HA	2.20	0.41
1:J:258:ILE:HG22	1:L:243:ASN:C	2.45	0.41
1:K:242:ASN:ND2	1:K:263:VAL:O	2.53	0.41
1:L:122:THR:O	1:L:224:LEU:HB2	2.20	0.41
1:N:366:PHE:HE1	1:P:364:MET:HE2	1.85	0.41
1:O:241:GLN:HB2	1:O:243:ASN:HD21	1.86	0.41
1:O:242:ASN:ND2	1:O:263:VAL:O	2.53	0.41
1:P:182:SER:OG	1:P:187:ASP:OD2	2.23	0.41
1:Q:110:TYR:OH	1:Q:233:ASP:HA	2.20	0.41
1:Q:134:THR:HA	1:Q:149:THR:HA	2.02	0.41
1:R:210:TYR:CE2	1:V:292:THR:HG21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:122:THR:O	1:U:224:LEU:HB2	2.20	0.41
1:X:361:LYS:HE2	1:X:363:SER:O	2.20	0.41
1:Y:134:THR:HA	1:Y:149:THR:HA	2.02	0.41
1:Z:122:THR:O	1:Z:224:LEU:HB2	2.20	0.41
1:5:323:ASP:O	1:5:327:ILE:N	2.40	0.41
1:4:246:MET:HB2	1:4:332:SER:OG	2.20	0.41
1:3:122:THR:O	1:3:224:LEU:HB2	2.20	0.41
1:a:292:THR:HG21	1:u:210:TYR:CE2	2.55	0.41
1:c:134:THR:HA	1:c:149:THR:HA	2.01	0.41
1:c:209:ARG:CB	1:e:46:VAL:CG1	2.85	0.41
1:i:110:TYR:OH	1:i:233:ASP:HA	2.20	0.41
1:j:292:THR:HG21	1:k:210:TYR:CE2	2.55	0.41
1:k:258:ILE:HG22	1:l:243:ASN:C	2.46	0.41
1:k:317:ASN:HD21	1:l:194:SER:HA	1.84	0.41
1:o:81:ILE:HA	1:o:188:TYR:O	2.21	0.41
1:o:292:THR:HG21	1:v:210:TYR:CE2	2.55	0.41
1:p:110:TYR:OH	1:p:233:ASP:HA	2.20	0.41
1:q:366:PHE:HE1	1:r:364:MET:HE2	1.85	0.41
1:r:110:TYR:OH	1:r:233:ASP:HA	2.20	0.41
1:r:242:ASN:ND2	1:r:263:VAL:O	2.53	0.41
1:r:365:LEU:HD12	1:r:365:LEU:HA	1.87	0.41
1:t:110:TYR:OH	1:t:233:ASP:HA	2.20	0.41
1:u:246:MET:HB2	1:u:332:SER:OG	2.20	0.41
1:w:242:ASN:ND2	1:w:263:VAL:O	2.53	0.41
1:z:241:GLN:HB2	1:z:243:ASN:HD21	1.86	0.41
1:A:314:VAL:O	1:A:318:LEU:HB2	2.21	0.41
1:B:87:VAL:HA	1:B:238:TYR:HA	2.03	0.41
1:B:122:THR:O	1:B:224:LEU:HB2	2.20	0.41
1:B:314:VAL:O	1:B:318:LEU:HB2	2.21	0.41
1:D:122:THR:O	1:D:224:LEU:HB2	2.20	0.41
1:E:361:LYS:HE2	1:E:363:SER:O	2.20	0.41
1:F:314:VAL:O	1:F:318:LEU:HB2	2.21	0.41
1:F:361:LYS:HE2	1:F:363:SER:O	2.20	0.41
1:G:250:GLY:HA2	1:G:331:GLY:HA2	2.03	0.41
1:H:246:MET:HB2	1:H:332:SER:OG	2.20	0.41
1:J:122:THR:O	1:J:224:LEU:HB2	2.20	0.41
1:K:87:VAL:HA	1:K:238:TYR:HA	2.03	0.41
1:M:81:ILE:HA	1:M:188:TYR:O	2.21	0.41
1:N:242:ASN:ND2	1:N:263:VAL:O	2.53	0.41
1:O:149:THR:HG21	1:P:155:PRO:HG3	2.02	0.41
1:O:210:TYR:CE2	1:5:292:THR:HG21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:81:ILE:HA	1:P:188:TYR:O	2.21	0.41
1:R:246:MET:HB2	1:R:332:SER:OG	2.20	0.41
1:R:323:ASP:O	1:R:327:ILE:N	2.40	0.41
1:U:87:VAL:HA	1:U:238:TYR:HA	2.03	0.41
1:U:110:TYR:OH	1:U:233:ASP:HA	2.20	0.41
1:W:242:ASN:ND2	1:W:263:VAL:O	2.53	0.41
1:3:243:ASN:C	1:a:258:ILE:HG22	2.45	0.41
1:3:366:PHE:HE1	1:b:364:MET:HE2	1.85	0.41
1:a:155:PRO:HG3	1:e:149:THR:HG21	2.02	0.41
1:c:242:ASN:ND2	1:c:263:VAL:O	2.53	0.41
1:e:155:PRO:HG3	1:q:149:THR:HG21	2.02	0.41
1:g:87:VAL:HA	1:g:238:TYR:HA	2.03	0.41
1:g:250:GLY:HA2	1:g:331:GLY:HA2	2.03	0.41
1:i:134:THR:HA	1:i:149:THR:HA	2.02	0.41
1:n:87:VAL:HA	1:n:238:TYR:HA	2.03	0.41
1:n:242:ASN:ND2	1:n:263:VAL:O	2.53	0.41
1:o:110:TYR:OH	1:o:233:ASP:HA	2.20	0.41
1:p:314:VAL:O	1:p:318:LEU:HB2	2.21	0.41
1:p:323:ASP:O	1:p:327:ILE:N	2.40	0.41
1:q:122:THR:O	1:q:224:LEU:HB2	2.20	0.41
1:s:314:VAL:O	1:s:318:LEU:HB2	2.21	0.41
1:t:118:ALA:HB1	1:t:229:TRP:HB3	2.03	0.41
1:t:364:MET:HE2	1:v:366:PHE:HE1	1.85	0.41
1:w:292:THR:HG21	1:2:210:TYR:CE2	2.55	0.41
1:y:155:PRO:HG3	1:2:149:THR:HG21	2.01	0.41
1:y:364:MET:HE2	1:1:366:PHE:HE1	1.85	0.41
1:z:122:THR:O	1:z:224:LEU:HB2	2.20	0.41
1:z:246:MET:HB2	1:z:332:SER:OG	2.20	0.41
1:1:242:ASN:ND2	1:1:263:VAL:O	2.53	0.41
1:2:242:ASN:ND2	1:2:263:VAL:O	2.53	0.41
1:A:241:GLN:HB2	1:A:243:ASN:HD21	1.86	0.41
1:B:246:MET:HB2	1:B:332:SER:OG	2.20	0.41
1:C:87:VAL:HA	1:C:238:TYR:HA	2.03	0.41
1:D:180:VAL:HG12	1:D:339:SER:HG	1.85	0.41
1:D:246:MET:HB2	1:D:332:SER:OG	2.20	0.41
1:E:87:VAL:HA	1:E:238:TYR:HA	2.03	0.41
1:E:242:ASN:ND2	1:E:263:VAL:O	2.53	0.41
1:E:364:MET:HE2	1:F:366:PHE:HE1	1.85	0.41
1:G:122:THR:O	1:G:224:LEU:HD13	2.21	0.41
1:G:149:THR:HG21	1:W:155:PRO:HG3	2.02	0.41
1:H:87:VAL:HA	1:H:238:TYR:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:149:THR:HG21	1:7:155:PRO:HG3	2.03	0.41
1:M:110:TYR:OH	1:M:233:ASP:HA	2.20	0.41
1:N:314:VAL:O	1:N:318:LEU:HB2	2.21	0.41
1:Q:81:ILE:HA	1:Q:188:TYR:O	2.21	0.41
1:Q:87:VAL:HA	1:Q:238:TYR:HA	2.03	0.41
1:Q:246:MET:HB2	1:Q:332:SER:OG	2.20	0.41
1:V:118:ALA:HB1	1:V:229:TRP:HB3	2.03	0.41
1:V:155:PRO:HG3	1:W:149:THR:HG21	2.02	0.41
1:W:46:VAL:CG1	1:Y:209:ARG:CB	2.85	0.41
1:W:87:VAL:HA	1:W:238:TYR:HA	2.03	0.41
1:W:250:GLY:HA2	1:W:331:GLY:HA2	2.03	0.41
1:Y:122:THR:O	1:Y:224:LEU:HB2	2.20	0.41
1:Y:242:ASN:ND2	1:Y:263:VAL:O	2.53	0.41
1:Z:122:THR:O	1:Z:224:LEU:HD13	2.21	0.41
1:Z:314:VAL:O	1:Z:318:LEU:HB2	2.21	0.41
1:7:87:VAL:HA	1:7:238:TYR:HA	2.03	0.41
1:7:122:THR:O	1:7:224:LEU:HB2	2.20	0.41
1:7:242:ASN:ND2	1:7:263:VAL:O	2.53	0.41
1:7:311:ILE:HG23	1:6:105:VAL:O	2.20	0.41
1:6:87:VAL:HA	1:6:238:TYR:HA	2.03	0.41
1:6:314:VAL:O	1:6:318:LEU:HB2	2.21	0.41
1:4:122:THR:O	1:4:224:LEU:HB2	2.20	0.41
1:b:241:GLN:HB2	1:b:243:ASN:HD21	1.86	0.41
1:b:361:LYS:HE2	1:b:363:SER:O	2.20	0.41
1:c:118:ALA:HB1	1:c:229:TRP:HB3	2.03	0.41
1:d:87:VAL:HA	1:d:238:TYR:HA	2.03	0.41
1:e:242:ASN:ND2	1:e:263:VAL:O	2.53	0.41
1:f:122:THR:O	1:f:224:LEU:HB2	2.20	0.41
1:f:122:THR:O	1:f:224:LEU:HD13	2.21	0.41
1:f:314:VAL:O	1:f:318:LEU:HB2	2.21	0.41
1:g:122:THR:O	1:g:224:LEU:HD13	2.21	0.41
1:g:242:ASN:ND2	1:g:263:VAL:O	2.53	0.41
1:h:81:ILE:HA	1:h:188:TYR:O	2.21	0.41
1:i:81:ILE:HA	1:i:188:TYR:O	2.21	0.41
1:i:87:VAL:HA	1:i:238:TYR:HA	2.03	0.41
1:k:87:VAL:HA	1:k:238:TYR:HA	2.03	0.41
1:k:361:LYS:HE2	1:k:363:SER:O	2.20	0.41
1:k:364:MET:HE2	1:m:366:PHE:HE1	1.85	0.41
1:l:122:THR:O	1:l:224:LEU:HB2	2.20	0.41
1:n:361:LYS:HE2	1:n:363:SER:O	2.20	0.41
1:o:246:MET:HB2	1:o:332:SER:OG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:250:GLY:HA2	1:p:331:GLY:HA2	2.03	0.41
1:s:241:GLN:HB2	1:s:243:ASN:HD21	1.86	0.41
1:t:243:ASN:C	1:v:258:ILE:HG22	2.45	0.41
1:w:361:LYS:HE2	1:w:363:SER:O	2.20	0.41
1:x:180:VAL:HG12	1:x:339:SER:HG	1.84	0.41
1:x:365:LEU:HD12	1:x:365:LEU:HA	1.87	0.41
1:1:314:VAL:O	1:1:318:LEU:HB2	2.21	0.41
1:A:81:ILE:HA	1:A:188:TYR:O	2.21	0.41
1:A:122:THR:O	1:A:224:LEU:HD13	2.21	0.41
1:A:194:SER:HA	1:I:317:ASN:HD21	1.85	0.41
1:A:246:MET:HB2	1:A:332:SER:OG	2.20	0.41
1:A:250:GLY:HA2	1:A:331:GLY:HA2	2.03	0.41
1:A:361:LYS:HE2	1:A:363:SER:O	2.20	0.41
1:B:361:LYS:HE2	1:B:363:SER:O	2.20	0.41
1:B:364:MET:HE2	1:L:366:PHE:HE1	1.85	0.41
1:C:69:PHE:CE1	1:C:292:THR:HG22	2.56	0.41
1:C:122:THR:O	1:C:224:LEU:HD13	2.21	0.41
1:D:314:VAL:O	1:D:318:LEU:HB2	2.21	0.41
1:E:122:THR:O	1:E:224:LEU:HD13	2.21	0.41
1:F:69:PHE:CE1	1:F:292:THR:HG22	2.56	0.41
1:F:250:GLY:HA2	1:F:331:GLY:HA2	2.03	0.41
1:H:122:THR:O	1:H:224:LEU:HB2	2.20	0.41
1:H:314:VAL:O	1:H:318:LEU:HB2	2.21	0.41
1:I:122:THR:O	1:I:224:LEU:HD13	2.21	0.41
1:I:246:MET:HB2	1:I:332:SER:OG	2.20	0.41
1:I:365:LEU:HD12	1:I:365:LEU:HA	1.87	0.41
1:K:122:THR:O	1:K:224:LEU:HD13	2.21	0.41
1:K:149:THR:HG21	1:L:155:PRO:HG3	2.02	0.41
1:L:81:ILE:HA	1:L:188:TYR:O	2.21	0.41
1:L:250:GLY:HA2	1:L:331:GLY:HA2	2.03	0.41
1:L:314:VAL:O	1:L:318:LEU:HB2	2.21	0.41
1:M:87:VAL:HA	1:M:238:TYR:HA	2.03	0.41
1:M:250:GLY:HA2	1:M:331:GLY:HA2	2.03	0.41
1:N:122:THR:O	1:N:224:LEU:HD13	2.21	0.41
1:O:122:THR:O	1:O:224:LEU:HB2	2.20	0.41
1:O:250:GLY:HA2	1:O:331:GLY:HA2	2.03	0.41
1:O:314:VAL:O	1:O:318:LEU:HB2	2.21	0.41
1:O:361:LYS:HE2	1:O:363:SER:O	2.20	0.41
1:Q:122:THR:O	1:Q:224:LEU:HD13	2.21	0.41
1:Q:250:GLY:HA2	1:Q:331:GLY:HA2	2.03	0.41
1:R:88:MET:HE3	1:R:330:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:258:ILE:HG22	1:S:243:ASN:C	2.46	0.41
1:S:149:THR:HG21	1:5:155:PRO:HG3	2.02	0.41
1:S:366:PHE:HE1	1:U:364:MET:HE2	1.85	0.41
1:T:81:ILE:HA	1:T:188:TYR:O	2.21	0.41
1:T:180:VAL:HG12	1:T:339:SER:HG	1.85	0.41
1:T:243:ASN:C	1:f:258:ILE:HG22	2.45	0.41
1:U:88:MET:HE3	1:U:330:TYR:CE1	2.56	0.41
1:U:118:ALA:HB1	1:U:229:TRP:HB3	2.03	0.41
1:U:314:VAL:O	1:U:318:LEU:HB2	2.21	0.41
1:V:258:ILE:HG22	1:4:243:ASN:C	2.45	0.41
1:W:134:THR:HA	1:W:149:THR:HA	2.01	0.41
1:X:149:THR:HG21	1:Y:155:PRO:HG3	2.02	0.41
1:X:184:ARG:NH1	1:X:295:THR:OG1	2.40	0.41
1:X:241:GLN:HB2	1:X:243:ASN:HD21	1.86	0.41
1:X:364:MET:HE2	1:4:366:PHE:HE1	1.85	0.41
1:Y:118:ALA:HB1	1:Y:229:TRP:HB3	2.03	0.41
1:Z:258:ILE:HG22	1:x:243:ASN:C	2.45	0.41
1:Z:361:LYS:HE2	1:Z:363:SER:O	2.20	0.41
1:8:110:TYR:OH	1:8:233:ASP:HA	2.20	0.41
1:8:118:ALA:HB1	1:8:229:TRP:HB3	2.03	0.41
1:7:49:THR:CB	1:6:67:ARG:HH11	2.34	0.41
1:7:314:VAL:O	1:7:318:LEU:HB2	2.21	0.41
1:6:122:THR:O	1:6:224:LEU:HB2	2.20	0.41
1:6:242:ASN:ND2	1:6:263:VAL:O	2.53	0.41
1:6:250:GLY:HA2	1:6:331:GLY:HA2	2.03	0.41
1:4:87:VAL:HA	1:4:238:TYR:HA	2.03	0.41
1:3:87:VAL:HA	1:3:238:TYR:HA	2.03	0.41
1:a:118:ALA:HB1	1:a:229:TRP:HB3	2.03	0.41
1:b:149:THR:HG21	1:c:155:PRO:HG3	2.01	0.41
1:c:122:THR:O	1:c:224:LEU:HB2	2.20	0.41
1:d:46:VAL:CG1	1:e:209:ARG:CB	2.85	0.41
1:d:122:THR:O	1:d:224:LEU:HB2	2.20	0.41
1:d:122:THR:O	1:d:224:LEU:HD13	2.21	0.41
1:d:246:MET:HB2	1:d:332:SER:OG	2.20	0.41
1:d:314:VAL:O	1:d:318:LEU:HB2	2.21	0.41
1:e:87:VAL:HA	1:e:238:TYR:HA	2.03	0.41
1:e:250:GLY:HA2	1:e:331:GLY:HA2	2.03	0.41
1:g:149:THR:HG21	1:m:155:PRO:HG3	2.02	0.41
1:h:110:TYR:OH	1:h:233:ASP:HA	2.20	0.41
1:h:118:ALA:HB1	1:h:229:TRP:HB3	2.03	0.41
1:h:246:MET:HB2	1:h:332:SER:OG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:250:GLY:HA2	1:i:331:GLY:HA2	2.03	0.41
1:j:87:VAL:HA	1:j:238:TYR:HA	2.03	0.41
1:j:122:THR:O	1:j:224:LEU:HD13	2.21	0.41
1:k:243:ASN:C	1:m:258:ILE:HG22	2.45	0.41
1:k:314:VAL:O	1:k:318:LEU:HB2	2.21	0.41
1:m:250:GLY:HA2	1:m:331:GLY:HA2	2.03	0.41
1:m:314:VAL:O	1:m:318:LEU:HB2	2.21	0.41
1:n:110:TYR:OH	1:n:233:ASP:HA	2.20	0.41
1:n:122:THR:O	1:n:224:LEU:HD13	2.21	0.41
1:n:314:VAL:O	1:n:318:LEU:HB2	2.21	0.41
1:o:87:VAL:HA	1:o:238:TYR:HA	2.03	0.41
1:o:122:THR:O	1:o:224:LEU:HD13	2.21	0.41
1:o:250:GLY:HA2	1:o:331:GLY:HA2	2.03	0.41
1:o:258:ILE:HG22	1:p:243:ASN:C	2.46	0.41
1:q:122:THR:O	1:q:224:LEU:HD13	2.21	0.41
1:q:314:VAL:O	1:q:318:LEU:HB2	2.21	0.41
1:r:69:PHE:CE1	1:r:292:THR:HG22	2.56	0.41
1:s:81:ILE:HA	1:s:188:TYR:O	2.21	0.41
1:s:122:THR:O	1:s:224:LEU:HD13	2.21	0.41
1:s:134:THR:HA	1:s:149:THR:HA	2.01	0.41
1:s:246:MET:HB2	1:s:332:SER:OG	2.20	0.41
1:s:250:GLY:HA2	1:s:331:GLY:HA2	2.03	0.41
1:t:87:VAL:HA	1:t:238:TYR:HA	2.03	0.41
1:t:314:VAL:O	1:t:318:LEU:HB2	2.21	0.41
1:u:258:ILE:HG22	1:v:243:ASN:C	2.46	0.41
1:v:149:THR:HG21	1:w:155:PRO:HG3	2.02	0.41
1:x:81:ILE:HA	1:x:188:TYR:O	2.21	0.41
1:x:122:THR:O	1:x:224:LEU:HB2	2.20	0.41
1:y:81:ILE:HA	1:y:188:TYR:O	2.21	0.41
1:z:180:VAL:HG12	1:z:339:SER:HG	1.85	0.41
1:z:314:VAL:O	1:z:318:LEU:HB2	2.21	0.41
1:1:122:THR:O	1:1:224:LEU:HD13	2.21	0.41
1:2:88:MET:HE3	1:2:330:TYR:CE1	2.56	0.41
1:2:122:THR:O	1:2:224:LEU:HB2	2.20	0.41
1:2:250:GLY:HA2	1:2:331:GLY:HA2	2.03	0.41
1:2:361:LYS:HE2	1:2:363:SER:O	2.20	0.41
1:E:110:TYR:OH	1:E:233:ASP:HA	2.20	0.41
1:E:241:GLN:HB2	1:E:243:ASN:HD21	1.86	0.41
1:E:314:VAL:O	1:E:318:LEU:HB2	2.21	0.41
1:F:81:ILE:HA	1:F:188:TYR:O	2.21	0.41
1:F:87:VAL:HA	1:F:238:TYR:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:VAL:O	1:G:318:LEU:HB2	2.21	0.41
1:H:122:THR:O	1:H:224:LEU:HD13	2.21	0.41
1:I:69:PHE:CE1	1:I:292:THR:HG22	2.56	0.41
1:I:184:ARG:NH1	1:I:295:THR:OG1	2.40	0.41
1:N:87:VAL:HA	1:N:238:TYR:HA	2.03	0.41
1:N:88:MET:HE3	1:N:330:TYR:CE1	2.56	0.41
1:N:323:ASP:O	1:N:327:ILE:N	2.40	0.41
1:O:81:ILE:HA	1:O:188:TYR:O	2.21	0.41
1:O:88:MET:HE3	1:O:330:TYR:CE1	2.56	0.41
1:O:122:THR:O	1:O:224:LEU:HD13	2.21	0.41
1:P:241:GLN:HB2	1:P:243:ASN:HD21	1.86	0.41
1:Q:361:LYS:HE2	1:Q:363:SER:O	2.20	0.41
1:R:81:ILE:HA	1:R:188:TYR:O	2.21	0.41
1:R:87:VAL:HA	1:R:238:TYR:HA	2.03	0.41
1:S:258:ILE:HG22	1:U:243:ASN:C	2.45	0.41
1:T:88:MET:HE3	1:T:330:TYR:CE1	2.56	0.41
1:T:122:THR:O	1:T:224:LEU:HB2	2.20	0.41
1:T:155:PRO:HG3	1:c:149:THR:HG21	2.02	0.41
1:U:81:ILE:HA	1:U:188:TYR:O	2.21	0.41
1:V:88:MET:HE3	1:V:330:TYR:CE1	2.56	0.41
1:X:122:THR:O	1:X:224:LEU:HD13	2.21	0.41
1:Y:69:PHE:CE1	1:Y:292:THR:HG22	2.56	0.41
1:Y:88:MET:HE3	1:Y:330:TYR:CE1	2.56	0.41
1:Z:87:VAL:HA	1:Z:238:TYR:HA	2.03	0.41
1:8:81:ILE:HA	1:8:188:TYR:O	2.21	0.41
1:8:88:MET:HE3	1:8:330:TYR:CE1	2.56	0.41
1:8:246:MET:HB2	1:8:332:SER:OG	2.20	0.41
1:7:110:TYR:OH	1:7:233:ASP:HA	2.20	0.41
1:7:250:GLY:HA2	1:7:331:GLY:HA2	2.03	0.41
1:6:110:TYR:OH	1:6:233:ASP:HA	2.20	0.41
1:5:118:ALA:HB1	1:5:229:TRP:HB3	2.03	0.41
1:5:314:VAL:O	1:5:318:LEU:HB2	2.21	0.41
1:4:323:ASP:O	1:4:327:ILE:N	2.40	0.41
1:3:88:MET:HE3	1:3:330:TYR:CE1	2.56	0.41
1:a:88:MET:HE3	1:a:330:TYR:CE1	2.56	0.41
1:b:118:ALA:HB1	1:b:229:TRP:HB3	2.03	0.41
1:c:69:PHE:CE1	1:c:292:THR:HG22	2.56	0.41
1:c:88:MET:HE3	1:c:330:TYR:CE1	2.56	0.41
1:e:134:THR:HA	1:e:149:THR:HA	2.02	0.41
1:f:88:MET:HE3	1:f:330:TYR:CE1	2.56	0.41
1:f:361:LYS:HE2	1:f:363:SER:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:88:MET:HE3	1:h:330:TYR:CE1	2.56	0.41
1:i:122:THR:O	1:i:224:LEU:HD13	2.21	0.41
1:j:69:PHE:CE1	1:j:292:THR:HG22	2.56	0.41
1:m:81:ILE:HA	1:m:188:TYR:O	2.21	0.41
1:n:241:GLN:HB2	1:n:243:ASN:HD21	1.86	0.41
1:n:311:ILE:HG23	1:y:105:VAL:O	2.21	0.41
1:n:364:MET:HE2	1:p:366:PHE:HE1	1.85	0.41
1:p:69:PHE:CE1	1:p:292:THR:HG22	2.56	0.41
1:p:87:VAL:HA	1:p:238:TYR:HA	2.03	0.41
1:q:143:GLY:C	1:q:144:THR:HG1	2.22	0.41
1:q:243:ASN:C	1:s:258:ILE:HG22	2.45	0.41
1:r:118:ALA:HB1	1:r:229:TRP:HB3	2.03	0.41
1:r:122:THR:O	1:r:224:LEU:HD13	2.21	0.41
1:r:246:MET:HB2	1:r:332:SER:OG	2.20	0.41
1:r:258:ILE:HG22	1:s:243:ASN:C	2.45	0.41
1:t:81:ILE:HA	1:t:188:TYR:O	2.21	0.41
1:t:88:MET:HE3	1:t:330:TYR:CE1	2.56	0.41
1:u:88:MET:HE3	1:u:330:TYR:CE1	2.56	0.41
1:w:118:ALA:HB1	1:w:229:TRP:HB3	2.03	0.41
1:x:88:MET:HE3	1:x:330:TYR:CE1	2.56	0.41
1:x:314:VAL:O	1:x:318:LEU:HB2	2.21	0.41
1:y:87:VAL:HA	1:y:238:TYR:HA	2.03	0.41
1:y:241:GLN:HB2	1:y:243:ASN:HD21	1.86	0.41
1:1:87:VAL:HA	1:1:238:TYR:HA	2.03	0.41
1:1:88:MET:HE3	1:1:330:TYR:CE1	2.56	0.41
1:2:122:THR:O	1:2:224:LEU:HD13	2.21	0.41
1:2:314:VAL:O	1:2:318:LEU:HB2	2.21	0.41
1:D:242:ASN:ND2	1:D:263:VAL:O	2.53	0.40
1:E:311:ILE:HG23	1:P:105:VAL:O	2.21	0.40
1:F:323:ASP:O	1:F:327:ILE:N	2.40	0.40
1:I:118:ALA:HB1	1:I:229:TRP:HB3	2.03	0.40
1:J:87:VAL:HA	1:J:238:TYR:HA	2.03	0.40
1:J:314:VAL:O	1:J:318:LEU:HB2	2.21	0.40
1:L:118:ALA:HB1	1:L:229:TRP:HB3	2.03	0.40
1:M:122:THR:O	1:M:224:LEU:HD13	2.21	0.40
1:N:118:ALA:HB1	1:N:229:TRP:HB3	2.03	0.40
1:O:118:ALA:HB1	1:O:229:TRP:HB3	2.03	0.40
1:O:134:THR:HA	1:O:149:THR:HA	2.01	0.40
1:U:241:GLN:HB2	1:U:243:ASN:HD21	1.86	0.40
1:V:81:ILE:HA	1:V:188:TYR:O	2.21	0.40
1:W:122:THR:O	1:W:224:LEU:HD13	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:118:ALA:HB1	1:X:229:TRP:HB3	2.03	0.40
1:Y:81:ILE:HA	1:Y:188:TYR:O	2.21	0.40
1:Z:88:MET:HE3	1:Z:330:TYR:CE1	2.56	0.40
1:8:69:PHE:CE1	1:8:292:THR:HG22	2.56	0.40
1:4:69:PHE:CE1	1:4:292:THR:HG22	2.56	0.40
1:4:88:MET:HE3	1:4:330:TYR:CE1	2.56	0.40
1:3:118:ALA:HB1	1:3:229:TRP:HB3	2.03	0.40
1:3:323:ASP:O	1:3:327:ILE:N	2.40	0.40
1:a:81:ILE:HA	1:a:188:TYR:O	2.21	0.40
1:b:122:THR:O	1:b:224:LEU:HD13	2.21	0.40
1:c:81:ILE:HA	1:c:188:TYR:O	2.21	0.40
1:c:177:VAL:O	1:c:179:PRO:HD3	2.22	0.40
1:d:88:MET:HE3	1:d:330:TYR:CE1	2.56	0.40
1:d:311:ILE:HG23	1:q:105:VAL:O	2.22	0.40
1:e:122:THR:O	1:e:224:LEU:HD13	2.21	0.40
1:f:87:VAL:HA	1:f:238:TYR:HA	2.03	0.40
1:l:87:VAL:HA	1:l:238:TYR:HA	2.03	0.40
1:l:241:GLN:HB2	1:l:243:ASN:HD21	1.86	0.40
1:m:87:VAL:HA	1:m:238:TYR:HA	2.03	0.40
1:m:88:MET:HE3	1:m:330:TYR:CE1	2.56	0.40
1:m:361:LYS:HE2	1:m:363:SER:O	2.20	0.40
1:p:81:ILE:HA	1:p:188:TYR:O	2.21	0.40
1:s:361:LYS:HE2	1:s:363:SER:O	2.20	0.40
1:u:241:GLN:HB2	1:u:243:ASN:HD21	1.86	0.40
1:w:314:VAL:O	1:w:318:LEU:HB2	2.21	0.40
1:z:242:ASN:ND2	1:z:263:VAL:O	2.53	0.40
1:1:118:ALA:HB1	1:1:229:TRP:HB3	2.03	0.40
1:1:323:ASP:O	1:1:327:ILE:N	2.40	0.40
1:2:81:ILE:HA	1:2:188:TYR:O	2.21	0.40
1:A:134:THR:HA	1:A:149:THR:HA	2.01	0.40
1:A:258:ILE:HG22	1:G:243:ASN:C	2.46	0.40
1:D:81:ILE:HA	1:D:188:TYR:O	2.21	0.40
1:E:366:PHE:HE1	1:Q:364:MET:HE2	1.85	0.40
1:F:242:ASN:ND2	1:F:263:VAL:O	2.53	0.40
1:G:105:VAL:O	1:H:311:ILE:HG23	2.22	0.40
1:H:88:MET:HE3	1:H:330:TYR:CE1	2.56	0.40
1:I:81:ILE:HA	1:I:188:TYR:O	2.21	0.40
1:I:241:GLN:HB2	1:I:243:ASN:HD21	1.86	0.40
1:J:117:LYS:HB2	1:J:117:LYS:HE3	1.73	0.40
1:K:366:PHE:HE1	1:8:364:MET:HE2	1.86	0.40
1:L:87:VAL:HA	1:L:238:TYR:HA	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:361:LYS:HE2	1:L:363:SER:O	2.20	0.40
1:M:69:PHE:CE1	1:M:292:THR:HG22	2.56	0.40
1:M:118:ALA:HB1	1:M:229:TRP:HB3	2.03	0.40
1:P:87:VAL:HA	1:P:238:TYR:HA	2.03	0.40
1:P:177:VAL:O	1:P:179:PRO:HD3	2.22	0.40
1:P:361:LYS:HE2	1:P:363:SER:O	2.20	0.40
1:Q:118:ALA:HB1	1:Q:229:TRP:HB3	2.03	0.40
1:Q:177:VAL:O	1:Q:179:PRO:HD3	2.22	0.40
1:R:241:GLN:HB2	1:R:243:ASN:HD21	1.86	0.40
1:S:122:THR:O	1:S:224:LEU:HD13	2.21	0.40
1:S:250:GLY:HA2	1:S:331:GLY:HA2	2.03	0.40
1:T:134:THR:HA	1:T:149:THR:HA	2.01	0.40
1:T:314:VAL:O	1:T:318:LEU:HB2	2.21	0.40
1:V:364:MET:HE2	1:X:366:PHE:CE1	2.56	0.40
1:W:314:VAL:O	1:W:318:LEU:HB2	2.21	0.40
1:X:69:PHE:CE1	1:X:292:THR:HG22	2.56	0.40
1:X:177:VAL:O	1:X:179:PRO:HD3	2.22	0.40
1:Y:149:THR:HG21	1:x:155:PRO:HG3	2.02	0.40
1:Y:177:VAL:O	1:Y:179:PRO:HD3	2.22	0.40
1:Z:118:ALA:HB1	1:Z:229:TRP:HB3	2.03	0.40
1:7:88:MET:HE3	1:7:330:TYR:CE1	2.56	0.40
1:7:118:ALA:HB1	1:7:229:TRP:HB3	2.03	0.40
1:6:118:ALA:HB1	1:6:229:TRP:HB3	2.03	0.40
1:4:118:ALA:HB1	1:4:229:TRP:HB3	2.03	0.40
1:3:69:PHE:CE1	1:3:292:THR:HG22	2.56	0.40
1:a:122:THR:O	1:a:224:LEU:HD13	2.21	0.40
1:b:69:PHE:CE1	1:b:292:THR:HG22	2.56	0.40
1:b:81:ILE:HA	1:b:188:TYR:O	2.21	0.40
1:b:177:VAL:O	1:b:179:PRO:HD3	2.22	0.40
1:d:81:ILE:HA	1:d:188:TYR:O	2.21	0.40
1:h:69:PHE:CE1	1:h:292:THR:HG22	2.56	0.40
1:i:69:PHE:CE1	1:i:292:THR:HG22	2.56	0.40
1:k:81:ILE:HA	1:k:188:TYR:O	2.21	0.40
1:l:314:VAL:O	1:l:318:LEU:HB2	2.21	0.40
1:m:118:ALA:HB1	1:m:229:TRP:HB3	2.03	0.40
1:m:134:THR:HA	1:m:149:THR:HA	2.01	0.40
1:n:209:ARG:CB	1:p:46:VAL:CG1	2.85	0.40
1:n:366:PHE:HE1	1:o:364:MET:HE2	1.85	0.40
1:o:118:ALA:HB1	1:o:229:TRP:HB3	2.03	0.40
1:o:361:LYS:HE2	1:o:363:SER:O	2.20	0.40
1:p:242:ASN:ND2	1:p:263:VAL:O	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:81:ILE:HA	1:q:188:TYR:O	2.21	0.40
1:q:87:VAL:HA	1:q:238:TYR:HA	2.03	0.40
1:q:241:GLN:HB2	1:q:243:ASN:HD21	1.86	0.40
1:r:361:LYS:HE2	1:r:363:SER:O	2.20	0.40
1:t:241:GLN:HB2	1:t:243:ASN:HD21	1.86	0.40
1:u:81:ILE:HA	1:u:188:TYR:O	2.21	0.40
1:u:87:VAL:HA	1:u:238:TYR:HA	2.03	0.40
1:y:88:MET:HE3	1:y:330:TYR:CE1	2.56	0.40
1:y:177:VAL:O	1:y:179:PRO:HD3	2.22	0.40
1:y:361:LYS:HE2	1:y:363:SER:O	2.20	0.40
1:2:118:ALA:HB1	1:2:229:TRP:HB3	2.03	0.40
1:A:88:MET:HE3	1:A:330:TYR:CE1	2.56	0.40
1:B:81:ILE:HA	1:B:188:TYR:O	2.21	0.40
1:B:177:VAL:O	1:B:179:PRO:HD3	2.22	0.40
1:B:250:GLY:HA2	1:B:331:GLY:HA2	2.03	0.40
1:C:250:GLY:HA2	1:C:331:GLY:HA2	2.03	0.40
1:D:69:PHE:CE1	1:D:292:THR:HG22	2.56	0.40
1:E:88:MET:HE3	1:E:330:TYR:CE1	2.56	0.40
1:F:177:VAL:O	1:F:179:PRO:HD3	2.22	0.40
1:G:81:ILE:HA	1:G:188:TYR:O	2.21	0.40
1:G:87:VAL:HA	1:G:238:TYR:HA	2.03	0.40
1:H:81:ILE:HA	1:H:188:TYR:O	2.21	0.40
1:H:177:VAL:O	1:H:179:PRO:HD3	2.22	0.40
1:I:361:LYS:HE2	1:I:363:SER:O	2.20	0.40
1:K:69:PHE:CE1	1:K:292:THR:HG22	2.56	0.40
1:K:88:MET:HE3	1:K:330:TYR:CE1	2.56	0.40
1:L:69:PHE:CE1	1:L:292:THR:HG22	2.56	0.40
1:L:88:MET:HE3	1:L:330:TYR:CE1	2.56	0.40
1:O:69:PHE:CE1	1:O:292:THR:HG22	2.56	0.40
1:O:255:SER:O	1:O:257:HIS:ND1	2.55	0.40
1:P:88:MET:HE3	1:P:330:TYR:CE1	2.56	0.40
1:Q:149:THR:HG21	1:S:155:PRO:HG3	2.02	0.40
1:S:88:MET:HE3	1:S:330:TYR:CE1	2.56	0.40
1:S:228:PHE:HE2	1:S:230:PHE:HE1	0.79	0.40
1:T:110:TYR:OH	1:T:233:ASP:HA	2.20	0.40
1:V:69:PHE:CE1	1:V:292:THR:HG22	2.56	0.40
1:V:122:THR:O	1:V:224:LEU:HD13	2.21	0.40
1:V:365:LEU:HD12	1:V:365:LEU:HA	1.86	0.40
1:W:69:PHE:CE1	1:W:292:THR:HG22	2.57	0.40
1:W:361:LYS:HE2	1:W:363:SER:O	2.20	0.40
1:X:81:ILE:HA	1:X:188:TYR:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:69:PHE:CE1	1:Z:292:THR:HG22	2.56	0.40
1:Z:180:VAL:HG12	1:Z:339:SER:HG	1.87	0.40
1:Z:366:PHE:CE1	1:x:364:MET:HE2	2.56	0.40
1:8:177:VAL:O	1:8:179:PRO:HD3	2.22	0.40
1:8:250:GLY:HA2	1:8:331:GLY:HA2	2.03	0.40
1:7:149:THR:HG21	1:i:155:PRO:HG3	2.03	0.40
1:6:88:MET:HE3	1:6:330:TYR:CE1	2.56	0.40
1:6:317:ASN:HD21	1:i:194:SER:HA	1.84	0.40
1:5:81:ILE:HA	1:5:188:TYR:O	2.21	0.40
1:4:81:ILE:HA	1:4:188:TYR:O	2.21	0.40
1:3:122:THR:O	1:3:224:LEU:HD13	2.21	0.40
1:a:69:PHE:CE1	1:a:292:THR:HG22	2.56	0.40
1:a:364:MET:HE2	1:b:366:PHE:CE1	2.56	0.40
1:e:69:PHE:CE1	1:e:292:THR:HG22	2.56	0.40
1:e:241:GLN:HB2	1:e:243:ASN:HD21	1.86	0.40
1:e:314:VAL:O	1:e:318:LEU:HB2	2.21	0.40
1:e:361:LYS:HE2	1:e:363:SER:O	2.20	0.40
1:g:311:ILE:HG23	1:l:105:VAL:O	2.22	0.40
1:h:177:VAL:O	1:h:179:PRO:HD3	2.22	0.40
1:i:118:ALA:HB1	1:i:229:TRP:HB3	2.03	0.40
1:i:258:ILE:HG22	1:j:243:ASN:C	2.46	0.40
1:k:177:VAL:O	1:k:179:PRO:HD3	2.22	0.40
1:k:250:GLY:HA2	1:k:331:GLY:HA2	2.03	0.40
1:m:69:PHE:CE1	1:m:292:THR:HG22	2.56	0.40
1:o:177:VAL:O	1:o:179:PRO:HD3	2.22	0.40
1:q:69:PHE:CE1	1:q:292:THR:HG22	2.56	0.40
1:r:81:ILE:HA	1:r:188:TYR:O	2.21	0.40
1:r:88:MET:HE3	1:r:330:TYR:CE1	2.56	0.40
1:s:88:MET:HE3	1:s:330:TYR:CE1	2.56	0.40
1:t:122:THR:O	1:t:224:LEU:HD13	2.21	0.40
1:v:88:MET:HE3	1:v:330:TYR:CE1	2.56	0.40
1:v:122:THR:O	1:v:224:LEU:HD13	2.21	0.40
1:v:250:GLY:HA2	1:v:331:GLY:HA2	2.03	0.40
1:x:87:VAL:HA	1:x:238:TYR:HA	2.03	0.40
1:x:134:THR:HA	1:x:149:THR:HA	2.01	0.40
1:x:241:GLN:HB2	1:x:243:ASN:HD21	1.86	0.40
1:z:81:ILE:HA	1:z:188:TYR:O	2.21	0.40
1:2:69:PHE:CE1	1:2:292:THR:HG22	2.56	0.40
1:B:242:ASN:ND2	1:B:263:VAL:O	2.53	0.40
1:B:366:PHE:CE1	1:J:364:MET:HE2	2.57	0.40
1:C:88:MET:HE3	1:C:330:TYR:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:105:VAL:O	1:P:311:ILE:HG23	2.22	0.40
1:G:69:PHE:CE1	1:G:292:THR:HG22	2.56	0.40
1:H:250:GLY:HA2	1:H:331:GLY:HA2	2.03	0.40
1:I:88:MET:HE3	1:I:330:TYR:CE1	2.56	0.40
1:J:105:VAL:O	1:K:311:ILE:HG23	2.22	0.40
1:J:241:GLN:HB2	1:J:243:ASN:HD21	1.86	0.40
1:M:210:TYR:CE2	1:7:47:TRP:HZ3	2.38	0.40
1:N:81:ILE:HA	1:N:188:TYR:O	2.21	0.40
1:S:81:ILE:HA	1:S:188:TYR:O	2.21	0.40
1:T:87:VAL:HA	1:T:238:TYR:HA	2.03	0.40
1:T:241:GLN:HB2	1:T:243:ASN:HD21	1.86	0.40
1:T:364:MET:HE2	1:f:366:PHE:CE1	2.56	0.40
1:U:122:THR:O	1:U:224:LEU:HD13	2.21	0.40
1:V:87:VAL:HA	1:V:238:TYR:HA	2.03	0.40
1:V:255:SER:O	1:V:257:HIS:ND1	2.55	0.40
1:W:88:MET:HE3	1:W:330:TYR:CE1	2.56	0.40
1:W:177:VAL:O	1:W:179:PRO:HD3	2.22	0.40
1:X:87:VAL:HA	1:X:238:TYR:HA	2.03	0.40
1:X:88:MET:HE3	1:X:330:TYR:CE1	2.56	0.40
1:7:122:THR:O	1:7:224:LEU:HD13	2.21	0.40
1:6:122:THR:O	1:6:224:LEU:HD13	2.21	0.40
1:5:69:PHE:CE1	1:5:292:THR:HG22	2.56	0.40
1:5:180:VAL:HG12	1:5:339:SER:HG	1.86	0.40
1:5:366:PHE:HE1	1:f:364:MET:HE2	1.85	0.40
1:4:122:THR:O	1:4:224:LEU:HD13	2.21	0.40
1:3:81:ILE:HA	1:3:188:TYR:O	2.21	0.40
1:3:177:VAL:O	1:3:179:PRO:HD3	2.22	0.40
1:a:87:VAL:HA	1:a:238:TYR:HA	2.03	0.40
1:a:255:SER:O	1:a:257:HIS:ND1	2.55	0.40
1:b:87:VAL:HA	1:b:238:TYR:HA	2.03	0.40
1:d:177:VAL:O	1:d:179:PRO:HD3	2.22	0.40
1:e:88:MET:HE3	1:e:330:TYR:CE1	2.56	0.40
1:f:118:ALA:HB1	1:f:229:TRP:HB3	2.03	0.40
1:g:88:MET:HE3	1:g:330:TYR:CE1	2.56	0.40
1:g:241:GLN:HB2	1:g:243:ASN:HD21	1.86	0.40
1:h:250:GLY:HA2	1:h:331:GLY:HA2	2.03	0.40
1:h:314:VAL:O	1:h:318:LEU:HB2	2.21	0.40
1:j:88:MET:HE3	1:j:330:TYR:CE1	2.56	0.40
1:j:250:GLY:HA2	1:j:331:GLY:HA2	2.03	0.40
1:k:242:ASN:ND2	1:k:263:VAL:O	2.53	0.40
1:k:366:PHE:CE1	1:l:364:MET:HE2	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:177:VAL:O	1:m:179:PRO:HD3	2.22	0.40
1:n:88:MET:HE3	1:n:330:TYR:CE1	2.56	0.40
1:o:149:THR:HG21	1:v:155:PRO:HG3	2.02	0.40
1:p:105:VAL:O	1:s:311:ILE:HG23	2.22	0.40
1:p:122:THR:O	1:p:224:LEU:HB2	2.20	0.40
1:r:241:GLN:HB2	1:r:243:ASN:HD21	1.86	0.40
1:v:81:ILE:HA	1:v:188:TYR:O	2.21	0.40
1:v:177:VAL:O	1:v:179:PRO:HD3	2.22	0.40
1:v:241:GLN:HB2	1:v:243:ASN:HD21	1.86	0.40
1:v:314:VAL:O	1:v:318:LEU:HB2	2.21	0.40
1:w:69:PHE:CE1	1:w:292:THR:HG22	2.56	0.40
1:x:110:TYR:OH	1:x:233:ASP:HA	2.20	0.40
1:z:69:PHE:CE1	1:z:292:THR:HG22	2.56	0.40
1:1:250:GLY:HA2	1:1:331:GLY:HA2	2.03	0.40
1:2:134:THR:HA	1:2:149:THR:HA	2.02	0.40
1:2:255:SER:O	1:2:257:HIS:ND1	2.55	0.40
1:A:243:ASN:C	1:I:258:ILE:HG22	2.46	0.40
1:C:46:VAL:HG22	1:7:211:TRP:HA	2.02	0.40
1:C:105:VAL:O	1:L:311:ILE:HG23	2.22	0.40
1:C:243:ASN:C	1:M:258:ILE:HG22	2.46	0.40
1:D:88:MET:HE3	1:D:330:TYR:CE1	2.56	0.40
1:E:81:ILE:HA	1:E:188:TYR:O	2.21	0.40
1:G:241:GLN:HB2	1:G:243:ASN:HD21	1.86	0.40
1:K:241:GLN:HB2	1:K:243:ASN:HD21	1.86	0.40
1:L:134:THR:HA	1:L:149:THR:HA	2.02	0.40
1:L:177:VAL:O	1:L:179:PRO:HD3	2.22	0.40
1:M:314:VAL:O	1:M:318:LEU:HB2	2.21	0.40
1:P:69:PHE:CE1	1:P:292:THR:HG22	2.56	0.40
1:P:122:THR:O	1:P:224:LEU:HD13	2.21	0.40
1:Q:69:PHE:CE1	1:Q:292:THR:HG22	2.56	0.40
1:S:177:VAL:O	1:S:179:PRO:HD3	2.22	0.40
1:S:241:GLN:HB2	1:S:243:ASN:HD21	1.86	0.40
1:S:314:VAL:O	1:S:318:LEU:HB2	2.21	0.40
1:T:118:ALA:HB1	1:T:229:TRP:HB3	2.03	0.40
1:V:314:VAL:O	1:V:318:LEU:HB2	2.21	0.40
1:W:241:GLN:HB2	1:W:243:ASN:HD21	1.86	0.40
1:Y:122:THR:O	1:Y:224:LEU:HD13	2.21	0.40
1:8:314:VAL:O	1:8:318:LEU:HB2	2.21	0.40
1:7:69:PHE:CE1	1:7:292:THR:HG22	2.56	0.40
1:4:177:VAL:O	1:4:179:PRO:HD3	2.22	0.40
1:4:314:VAL:O	1:4:318:LEU:HB2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:250:GLY:HA2	1:d:331:GLY:HA2	2.03	0.40
1:e:177:VAL:O	1:e:179:PRO:HD3	2.22	0.40
1:f:69:PHE:CE1	1:f:292:THR:HG22	2.57	0.40
1:g:69:PHE:CE1	1:g:292:THR:HG22	2.57	0.40
1:k:69:PHE:CE1	1:k:292:THR:HG22	2.56	0.40
1:l:118:ALA:HB1	1:l:229:TRP:HB3	2.03	0.40
1:n:81:ILE:HA	1:n:188:TYR:O	2.21	0.40
1:n:105:VAL:O	1:y:311:ILE:HG23	2.22	0.40
1:o:314:VAL:O	1:o:318:LEU:HB2	2.21	0.40
1:p:177:VAL:O	1:p:179:PRO:HD3	2.22	0.40
1:p:241:GLN:HB2	1:p:243:ASN:HD21	1.86	0.40
1:s:69:PHE:CE1	1:s:292:THR:HG22	2.56	0.40
1:x:118:ALA:HB1	1:x:229:TRP:HB3	2.03	0.40
1:y:118:ALA:HB1	1:y:229:TRP:HB3	2.03	0.40
1:1:81:ILE:HA	1:1:188:TYR:O	2.21	0.40
1:1:241:GLN:HB2	1:1:243:ASN:HD21	1.86	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	1	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	2	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	3	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	4	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	5	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	6	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	7	332/369 (90%)	319 (96%)	13 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	8	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	A	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	B	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	C	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	D	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	E	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	F	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	G	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	H	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	I	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	J	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	K	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	L	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	M	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	N	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	O	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	P	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	Q	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	R	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	S	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	T	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	U	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	V	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	W	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	X	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	Y	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	Z	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	a	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	b	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	c	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	d	332/369 (90%)	319 (96%)	13 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	e	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	f	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	g	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	h	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	i	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	j	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	k	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	l	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	m	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	n	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	o	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	p	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	q	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	r	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	s	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	t	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	u	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	v	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	w	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	x	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	y	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
1	z	332/369 (90%)	319 (96%)	13 (4%)	0	100	100
All	All	19920/22140 (90%)	19140 (96%)	780 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	1	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	2	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	3	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	4	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	5	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	6	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	7	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	8	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	A	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	B	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	C	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	D	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	E	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	F	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	G	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	H	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	I	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	J	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	K	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	L	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	M	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	N	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	O	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	P	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	Q	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	R	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	S	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	T	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	U	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	V	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	W	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	X	292/321 (91%)	290 (99%)	2 (1%)	81	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Y	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	Z	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	a	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	b	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	c	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	d	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	e	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	f	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	g	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	h	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	i	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	j	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	k	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	l	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	m	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	n	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	o	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	p	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	q	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	r	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	s	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	t	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	u	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	v	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	w	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	x	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	y	292/321 (91%)	290 (99%)	2 (1%)	81	90
1	z	292/321 (91%)	290 (99%)	2 (1%)	81	90
All	All	17520/19260 (91%)	17400 (99%)	120 (1%)	80	90

All (120) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	46	VAL
1	A	243	ASN
1	B	46	VAL
1	B	243	ASN
1	C	46	VAL
1	C	243	ASN
1	D	46	VAL
1	D	243	ASN
1	E	46	VAL
1	E	243	ASN
1	F	46	VAL
1	F	243	ASN
1	G	46	VAL
1	G	243	ASN
1	H	46	VAL
1	H	243	ASN
1	I	46	VAL
1	I	243	ASN
1	J	46	VAL
1	J	243	ASN
1	K	46	VAL
1	K	243	ASN
1	L	46	VAL
1	L	243	ASN
1	M	46	VAL
1	M	243	ASN
1	N	46	VAL
1	N	243	ASN
1	O	46	VAL
1	O	243	ASN
1	P	46	VAL
1	P	243	ASN
1	Q	46	VAL
1	Q	243	ASN
1	R	46	VAL
1	R	243	ASN
1	S	46	VAL
1	S	243	ASN
1	T	46	VAL
1	T	243	ASN
1	U	46	VAL
1	U	243	ASN
1	V	46	VAL

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Mol	Chain	Res	Type
1	V	243	ASN
1	W	46	VAL
1	W	243	ASN
1	X	46	VAL
1	X	243	ASN
1	Y	46	VAL
1	Y	243	ASN
1	Z	46	VAL
1	Z	243	ASN
1	8	46	VAL
1	8	243	ASN
1	7	46	VAL
1	7	243	ASN
1	6	46	VAL
1	6	243	ASN
1	5	46	VAL
1	5	243	ASN
1	4	46	VAL
1	4	243	ASN
1	3	46	VAL
1	3	243	ASN
1	a	46	VAL
1	a	243	ASN
1	b	46	VAL
1	b	243	ASN
1	c	46	VAL
1	c	243	ASN
1	d	46	VAL
1	d	243	ASN
1	e	46	VAL
1	e	243	ASN
1	f	46	VAL
1	f	243	ASN
1	g	46	VAL
1	g	243	ASN
1	h	46	VAL
1	h	243	ASN
1	i	46	VAL
1	i	243	ASN
1	j	46	VAL
1	j	243	ASN
1	k	46	VAL

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Mol	Chain	Res	Type
1	k	243	ASN
1	l	46	VAL
1	l	243	ASN
1	m	46	VAL
1	m	243	ASN
1	n	46	VAL
1	n	243	ASN
1	o	46	VAL
1	o	243	ASN
1	p	46	VAL
1	p	243	ASN
1	q	46	VAL
1	q	243	ASN
1	r	46	VAL
1	r	243	ASN
1	s	46	VAL
1	s	243	ASN
1	t	46	VAL
1	t	243	ASN
1	u	46	VAL
1	u	243	ASN
1	v	46	VAL
1	v	243	ASN
1	w	46	VAL
1	w	243	ASN
1	x	46	VAL
1	x	243	ASN
1	y	46	VAL
1	y	243	ASN
1	z	46	VAL
1	z	243	ASN
1	1	46	VAL
1	1	243	ASN
1	2	46	VAL
1	2	243	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (719) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	71	ASN
1	A	95	ASN
1	A	119	HIS

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Mol	Chain	Res	Type
1	A	206	ASN
1	A	222	HIS
1	A	241	GLN
1	A	243	ASN
1	A	271	HIS
1	A	284	GLN
1	A	290	GLN
1	A	345	GLN
1	A	357	ASN
1	B	71	ASN
1	B	95	ASN
1	B	119	HIS
1	B	222	HIS
1	B	241	GLN
1	B	243	ASN
1	B	271	HIS
1	B	284	GLN
1	B	290	GLN
1	B	345	GLN
1	B	357	ASN
1	C	71	ASN
1	C	95	ASN
1	C	119	HIS
1	C	206	ASN
1	C	222	HIS
1	C	241	GLN
1	C	243	ASN
1	C	271	HIS
1	C	284	GLN
1	C	290	GLN
1	C	345	GLN
1	C	357	ASN
1	D	71	ASN
1	D	95	ASN
1	D	119	HIS
1	D	222	HIS
1	D	241	GLN
1	D	243	ASN
1	D	271	HIS
1	D	284	GLN
1	D	290	GLN
1	D	345	GLN

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Mol	Chain	Res	Type
1	D	357	ASN
1	E	71	ASN
1	E	95	ASN
1	E	119	HIS
1	E	206	ASN
1	E	222	HIS
1	E	241	GLN
1	E	243	ASN
1	E	271	HIS
1	E	284	GLN
1	E	290	GLN
1	E	345	GLN
1	E	357	ASN
1	F	71	ASN
1	F	95	ASN
1	F	119	HIS
1	F	206	ASN
1	F	222	HIS
1	F	241	GLN
1	F	243	ASN
1	F	271	HIS
1	F	284	GLN
1	F	290	GLN
1	F	345	GLN
1	F	357	ASN
1	G	71	ASN
1	G	95	ASN
1	G	119	HIS
1	G	206	ASN
1	G	222	HIS
1	G	241	GLN
1	G	243	ASN
1	G	271	HIS
1	G	284	GLN
1	G	290	GLN
1	G	345	GLN
1	G	357	ASN
1	H	71	ASN
1	H	95	ASN
1	H	119	HIS
1	H	206	ASN
1	H	222	HIS

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Mol	Chain	Res	Type
1	H	241	GLN
1	H	243	ASN
1	H	259	ASN
1	H	271	HIS
1	H	284	GLN
1	H	290	GLN
1	H	345	GLN
1	H	357	ASN
1	I	71	ASN
1	I	95	ASN
1	I	119	HIS
1	I	206	ASN
1	I	222	HIS
1	I	241	GLN
1	I	243	ASN
1	I	271	HIS
1	I	284	GLN
1	I	290	GLN
1	I	345	GLN
1	I	357	ASN
1	J	71	ASN
1	J	95	ASN
1	J	119	HIS
1	J	206	ASN
1	J	222	HIS
1	J	241	GLN
1	J	243	ASN
1	J	271	HIS
1	J	284	GLN
1	J	290	GLN
1	J	345	GLN
1	J	357	ASN
1	K	71	ASN
1	K	95	ASN
1	K	119	HIS
1	K	152	ASN
1	K	206	ASN
1	K	222	HIS
1	K	241	GLN
1	K	243	ASN
1	K	259	ASN
1	K	271	HIS

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Mol	Chain	Res	Type
1	K	284	GLN
1	K	290	GLN
1	K	345	GLN
1	K	357	ASN
1	L	71	ASN
1	L	95	ASN
1	L	119	HIS
1	L	213	GLN
1	L	222	HIS
1	L	241	GLN
1	L	243	ASN
1	L	271	HIS
1	L	284	GLN
1	L	290	GLN
1	L	345	GLN
1	L	357	ASN
1	M	71	ASN
1	M	95	ASN
1	M	119	HIS
1	M	152	ASN
1	M	206	ASN
1	M	222	HIS
1	M	241	GLN
1	M	243	ASN
1	M	259	ASN
1	M	271	HIS
1	M	284	GLN
1	M	290	GLN
1	M	345	GLN
1	M	357	ASN
1	N	95	ASN
1	N	119	HIS
1	N	206	ASN
1	N	213	GLN
1	N	222	HIS
1	N	241	GLN
1	N	243	ASN
1	N	271	HIS
1	N	284	GLN
1	N	290	GLN
1	N	345	GLN
1	N	357	ASN

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Mol	Chain	Res	Type
1	O	71	ASN
1	O	95	ASN
1	O	119	HIS
1	O	206	ASN
1	O	222	HIS
1	O	241	GLN
1	O	243	ASN
1	O	271	HIS
1	O	284	GLN
1	O	290	GLN
1	O	345	GLN
1	O	357	ASN
1	P	71	ASN
1	P	95	ASN
1	P	119	HIS
1	P	206	ASN
1	P	222	HIS
1	P	241	GLN
1	P	243	ASN
1	P	271	HIS
1	P	284	GLN
1	P	290	GLN
1	P	345	GLN
1	P	357	ASN
1	Q	71	ASN
1	Q	95	ASN
1	Q	119	HIS
1	Q	206	ASN
1	Q	222	HIS
1	Q	241	GLN
1	Q	243	ASN
1	Q	271	HIS
1	Q	284	GLN
1	Q	290	GLN
1	Q	345	GLN
1	Q	357	ASN
1	R	71	ASN
1	R	95	ASN
1	R	119	HIS
1	R	222	HIS
1	R	241	GLN
1	R	243	ASN

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Mol	Chain	Res	Type
1	R	271	HIS
1	R	284	GLN
1	R	290	GLN
1	R	345	GLN
1	R	357	ASN
1	S	71	ASN
1	S	95	ASN
1	S	119	HIS
1	S	206	ASN
1	S	222	HIS
1	S	241	GLN
1	S	243	ASN
1	S	271	HIS
1	S	284	GLN
1	S	290	GLN
1	S	345	GLN
1	S	357	ASN
1	T	71	ASN
1	T	95	ASN
1	T	119	HIS
1	T	206	ASN
1	T	222	HIS
1	T	241	GLN
1	T	243	ASN
1	T	271	HIS
1	T	284	GLN
1	T	290	GLN
1	T	345	GLN
1	T	357	ASN
1	U	71	ASN
1	U	95	ASN
1	U	119	HIS
1	U	222	HIS
1	U	241	GLN
1	U	243	ASN
1	U	271	HIS
1	U	284	GLN
1	U	290	GLN
1	U	345	GLN
1	U	357	ASN
1	V	71	ASN
1	V	95	ASN

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Mol	Chain	Res	Type
1	V	119	HIS
1	V	206	ASN
1	V	222	HIS
1	V	241	GLN
1	V	243	ASN
1	V	271	HIS
1	V	284	GLN
1	V	290	GLN
1	V	345	GLN
1	V	357	ASN
1	W	95	ASN
1	W	119	HIS
1	W	222	HIS
1	W	241	GLN
1	W	243	ASN
1	W	271	HIS
1	W	284	GLN
1	W	290	GLN
1	W	345	GLN
1	W	357	ASN
1	X	95	ASN
1	X	119	HIS
1	X	206	ASN
1	X	222	HIS
1	X	241	GLN
1	X	243	ASN
1	X	271	HIS
1	X	284	GLN
1	X	290	GLN
1	X	345	GLN
1	X	357	ASN
1	Y	71	ASN
1	Y	95	ASN
1	Y	119	HIS
1	Y	222	HIS
1	Y	241	GLN
1	Y	243	ASN
1	Y	271	HIS
1	Y	284	GLN
1	Y	290	GLN
1	Y	345	GLN
1	Y	357	ASN

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Mol	Chain	Res	Type
1	Z	71	ASN
1	Z	95	ASN
1	Z	119	HIS
1	Z	206	ASN
1	Z	222	HIS
1	Z	241	GLN
1	Z	243	ASN
1	Z	271	HIS
1	Z	284	GLN
1	Z	290	GLN
1	Z	345	GLN
1	Z	357	ASN
1	8	71	ASN
1	8	95	ASN
1	8	119	HIS
1	8	206	ASN
1	8	222	HIS
1	8	241	GLN
1	8	243	ASN
1	8	271	HIS
1	8	284	GLN
1	8	290	GLN
1	8	345	GLN
1	8	357	ASN
1	7	71	ASN
1	7	95	ASN
1	7	119	HIS
1	7	152	ASN
1	7	206	ASN
1	7	222	HIS
1	7	241	GLN
1	7	243	ASN
1	7	259	ASN
1	7	271	HIS
1	7	284	GLN
1	7	290	GLN
1	7	345	GLN
1	7	357	ASN
1	6	71	ASN
1	6	95	ASN
1	6	119	HIS
1	6	206	ASN

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Mol	Chain	Res	Type
1	6	213	GLN
1	6	222	HIS
1	6	241	GLN
1	6	243	ASN
1	6	259	ASN
1	6	271	HIS
1	6	284	GLN
1	6	290	GLN
1	6	345	GLN
1	6	357	ASN
1	5	71	ASN
1	5	95	ASN
1	5	119	HIS
1	5	206	ASN
1	5	222	HIS
1	5	241	GLN
1	5	243	ASN
1	5	271	HIS
1	5	284	GLN
1	5	290	GLN
1	5	345	GLN
1	5	357	ASN
1	4	71	ASN
1	4	95	ASN
1	4	119	HIS
1	4	206	ASN
1	4	222	HIS
1	4	241	GLN
1	4	243	ASN
1	4	271	HIS
1	4	284	GLN
1	4	290	GLN
1	4	345	GLN
1	4	357	ASN
1	3	71	ASN
1	3	95	ASN
1	3	119	HIS
1	3	206	ASN
1	3	222	HIS
1	3	241	GLN
1	3	243	ASN
1	3	271	HIS

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Mol	Chain	Res	Type
1	3	284	GLN
1	3	290	GLN
1	3	345	GLN
1	3	357	ASN
1	a	71	ASN
1	a	95	ASN
1	a	119	HIS
1	a	206	ASN
1	a	222	HIS
1	a	241	GLN
1	a	243	ASN
1	a	271	HIS
1	a	284	GLN
1	a	290	GLN
1	a	345	GLN
1	a	357	ASN
1	b	95	ASN
1	b	119	HIS
1	b	206	ASN
1	b	222	HIS
1	b	241	GLN
1	b	243	ASN
1	b	259	ASN
1	b	271	HIS
1	b	284	GLN
1	b	290	GLN
1	b	345	GLN
1	b	357	ASN
1	c	95	ASN
1	c	119	HIS
1	c	206	ASN
1	c	222	HIS
1	c	241	GLN
1	c	243	ASN
1	c	271	HIS
1	c	284	GLN
1	c	290	GLN
1	c	345	GLN
1	c	357	ASN
1	d	71	ASN
1	d	95	ASN
1	d	119	HIS

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Mol	Chain	Res	Type
1	d	206	ASN
1	d	222	HIS
1	d	241	GLN
1	d	243	ASN
1	d	259	ASN
1	d	271	HIS
1	d	284	GLN
1	d	290	GLN
1	d	345	GLN
1	d	357	ASN
1	e	95	ASN
1	e	119	HIS
1	e	222	HIS
1	e	241	GLN
1	e	243	ASN
1	e	271	HIS
1	e	284	GLN
1	e	290	GLN
1	e	345	GLN
1	e	357	ASN
1	f	71	ASN
1	f	95	ASN
1	f	119	HIS
1	f	206	ASN
1	f	222	HIS
1	f	241	GLN
1	f	243	ASN
1	f	271	HIS
1	f	284	GLN
1	f	290	GLN
1	f	345	GLN
1	f	357	ASN
1	g	71	ASN
1	g	95	ASN
1	g	119	HIS
1	g	152	ASN
1	g	222	HIS
1	g	241	GLN
1	g	243	ASN
1	g	259	ASN
1	g	271	HIS
1	g	284	GLN

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Mol	Chain	Res	Type
1	g	290	GLN
1	g	345	GLN
1	g	357	ASN
1	h	71	ASN
1	h	95	ASN
1	h	119	HIS
1	h	206	ASN
1	h	222	HIS
1	h	241	GLN
1	h	243	ASN
1	h	259	ASN
1	h	271	HIS
1	h	284	GLN
1	h	290	GLN
1	h	345	GLN
1	h	357	ASN
1	i	71	ASN
1	i	95	ASN
1	i	119	HIS
1	i	206	ASN
1	i	222	HIS
1	i	241	GLN
1	i	243	ASN
1	i	259	ASN
1	i	271	HIS
1	i	284	GLN
1	i	290	GLN
1	i	345	GLN
1	i	357	ASN
1	j	71	ASN
1	j	95	ASN
1	j	119	HIS
1	j	206	ASN
1	j	222	HIS
1	j	241	GLN
1	j	243	ASN
1	j	271	HIS
1	j	284	GLN
1	j	290	GLN
1	j	345	GLN
1	j	357	ASN
1	k	71	ASN

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Mol	Chain	Res	Type
1	k	95	ASN
1	k	119	HIS
1	k	222	HIS
1	k	241	GLN
1	k	243	ASN
1	k	271	HIS
1	k	284	GLN
1	k	290	GLN
1	k	345	GLN
1	k	357	ASN
1	l	71	ASN
1	l	95	ASN
1	l	119	HIS
1	l	206	ASN
1	l	222	HIS
1	l	241	GLN
1	l	243	ASN
1	l	271	HIS
1	l	284	GLN
1	l	290	GLN
1	l	345	GLN
1	l	357	ASN
1	m	71	ASN
1	m	95	ASN
1	m	119	HIS
1	m	222	HIS
1	m	241	GLN
1	m	243	ASN
1	m	271	HIS
1	m	284	GLN
1	m	290	GLN
1	m	345	GLN
1	m	357	ASN
1	n	71	ASN
1	n	95	ASN
1	n	119	HIS
1	n	206	ASN
1	n	222	HIS
1	n	241	GLN
1	n	243	ASN
1	n	271	HIS
1	n	284	GLN

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Mol	Chain	Res	Type
1	n	290	GLN
1	n	345	GLN
1	n	357	ASN
1	o	71	ASN
1	o	95	ASN
1	o	119	HIS
1	o	206	ASN
1	o	222	HIS
1	o	241	GLN
1	o	243	ASN
1	o	271	HIS
1	o	284	GLN
1	o	290	GLN
1	o	345	GLN
1	o	357	ASN
1	p	71	ASN
1	p	95	ASN
1	p	119	HIS
1	p	206	ASN
1	p	222	HIS
1	p	241	GLN
1	p	243	ASN
1	p	271	HIS
1	p	284	GLN
1	p	290	GLN
1	p	345	GLN
1	p	357	ASN
1	q	71	ASN
1	q	95	ASN
1	q	119	HIS
1	q	206	ASN
1	q	222	HIS
1	q	241	GLN
1	q	243	ASN
1	q	271	HIS
1	q	284	GLN
1	q	290	GLN
1	q	345	GLN
1	q	357	ASN
1	r	71	ASN
1	r	95	ASN
1	r	119	HIS

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Mol	Chain	Res	Type
1	r	206	ASN
1	r	222	HIS
1	r	241	GLN
1	r	243	ASN
1	r	259	ASN
1	r	271	HIS
1	r	284	GLN
1	r	290	GLN
1	r	345	GLN
1	r	357	ASN
1	s	71	ASN
1	s	95	ASN
1	s	119	HIS
1	s	222	HIS
1	s	241	GLN
1	s	243	ASN
1	s	271	HIS
1	s	284	GLN
1	s	290	GLN
1	s	345	GLN
1	s	357	ASN
1	t	71	ASN
1	t	95	ASN
1	t	119	HIS
1	t	222	HIS
1	t	241	GLN
1	t	243	ASN
1	t	271	HIS
1	t	284	GLN
1	t	290	GLN
1	t	345	GLN
1	t	357	ASN
1	u	71	ASN
1	u	95	ASN
1	u	119	HIS
1	u	222	HIS
1	u	241	GLN
1	u	243	ASN
1	u	271	HIS
1	u	284	GLN
1	u	290	GLN
1	u	345	GLN

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Mol	Chain	Res	Type
1	u	357	ASN
1	v	71	ASN
1	v	95	ASN
1	v	119	HIS
1	v	206	ASN
1	v	222	HIS
1	v	241	GLN
1	v	243	ASN
1	v	271	HIS
1	v	284	GLN
1	v	290	GLN
1	v	345	GLN
1	v	357	ASN
1	w	71	ASN
1	w	95	ASN
1	w	119	HIS
1	w	206	ASN
1	w	222	HIS
1	w	241	GLN
1	w	243	ASN
1	w	271	HIS
1	w	284	GLN
1	w	290	GLN
1	w	345	GLN
1	w	357	ASN
1	x	71	ASN
1	x	95	ASN
1	x	119	HIS
1	x	206	ASN
1	x	222	HIS
1	x	241	GLN
1	x	243	ASN
1	x	271	HIS
1	x	284	GLN
1	x	290	GLN
1	x	345	GLN
1	x	357	ASN
1	y	71	ASN
1	y	95	ASN
1	y	119	HIS
1	y	206	ASN
1	y	222	HIS

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Mol	Chain	Res	Type
1	y	241	GLN
1	y	243	ASN
1	y	271	HIS
1	y	284	GLN
1	y	290	GLN
1	y	345	GLN
1	y	357	ASN
1	z	71	ASN
1	z	95	ASN
1	z	119	HIS
1	z	206	ASN
1	z	222	HIS
1	z	241	GLN
1	z	243	ASN
1	z	271	HIS
1	z	284	GLN
1	z	290	GLN
1	z	345	GLN
1	z	357	ASN
1	1	71	ASN
1	1	95	ASN
1	1	119	HIS
1	1	206	ASN
1	1	213	GLN
1	1	222	HIS
1	1	241	GLN
1	1	243	ASN
1	1	271	HIS
1	1	284	GLN
1	1	290	GLN
1	1	345	GLN
1	1	357	ASN
1	2	71	ASN
1	2	95	ASN
1	2	119	HIS
1	2	206	ASN
1	2	222	HIS
1	2	241	GLN
1	2	243	ASN
1	2	271	HIS
1	2	284	GLN
1	2	290	GLN

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Mol	Chain	Res	Type
1	2	345	GLN
1	2	357	ASN

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

Of 60 ligands modelled in this entry, 60 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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-21667. 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

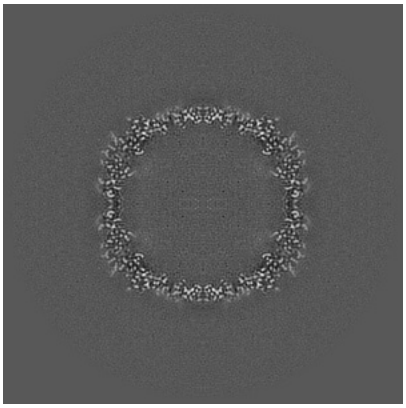
Y

Z

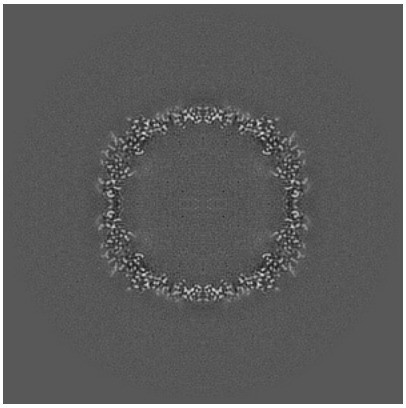
The images above show the map projected in three orthogonal directions.

6.2 Central slices

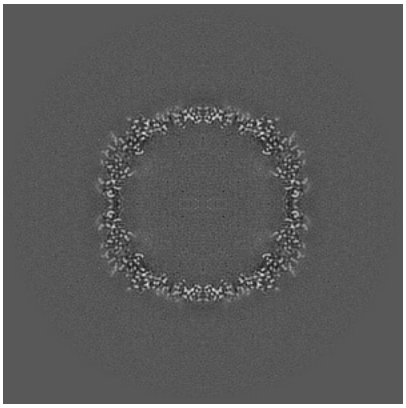
6.2.1 Primary map



X Index: 200



Y Index: 200

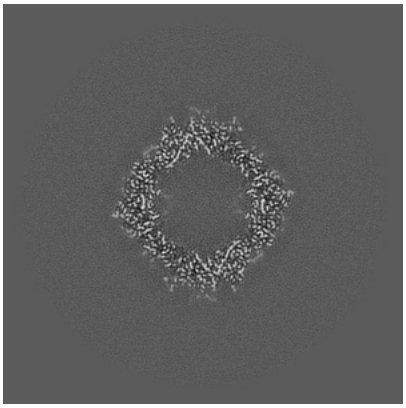


Z Index: 200

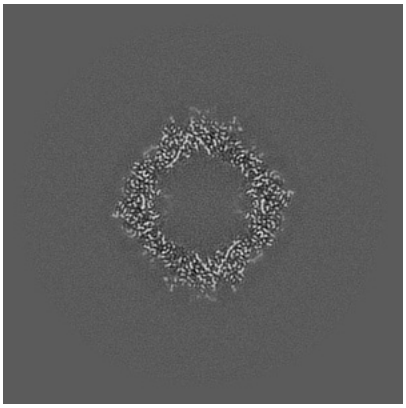
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

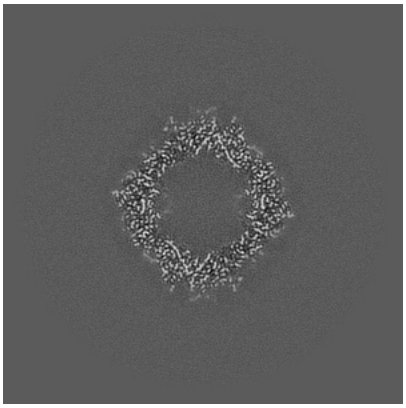
6.3.1 Primary map



X Index: 135



Y Index: 135

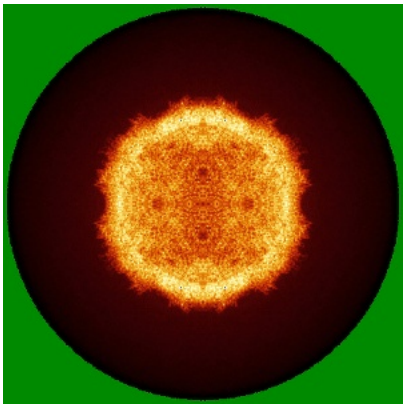


Z Index: 265

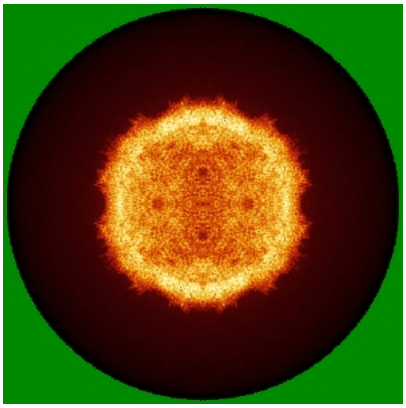
The images above show the largest variance slices of the map in three orthogonal directions.

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

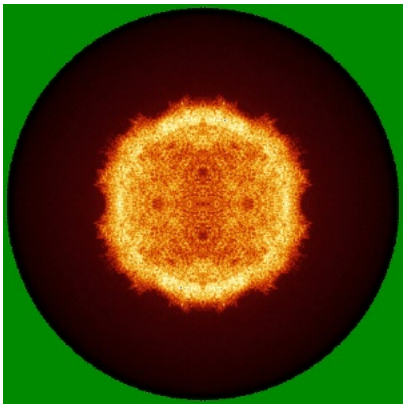
6.4.1 Primary map



X



Y

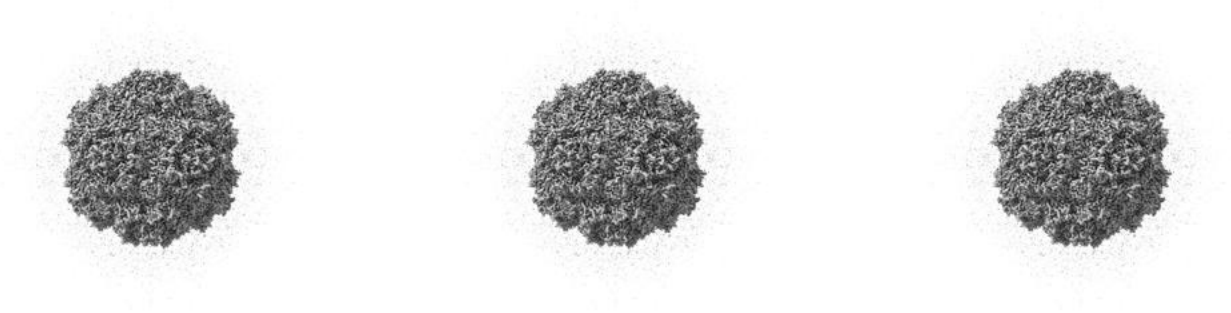


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 1.5. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

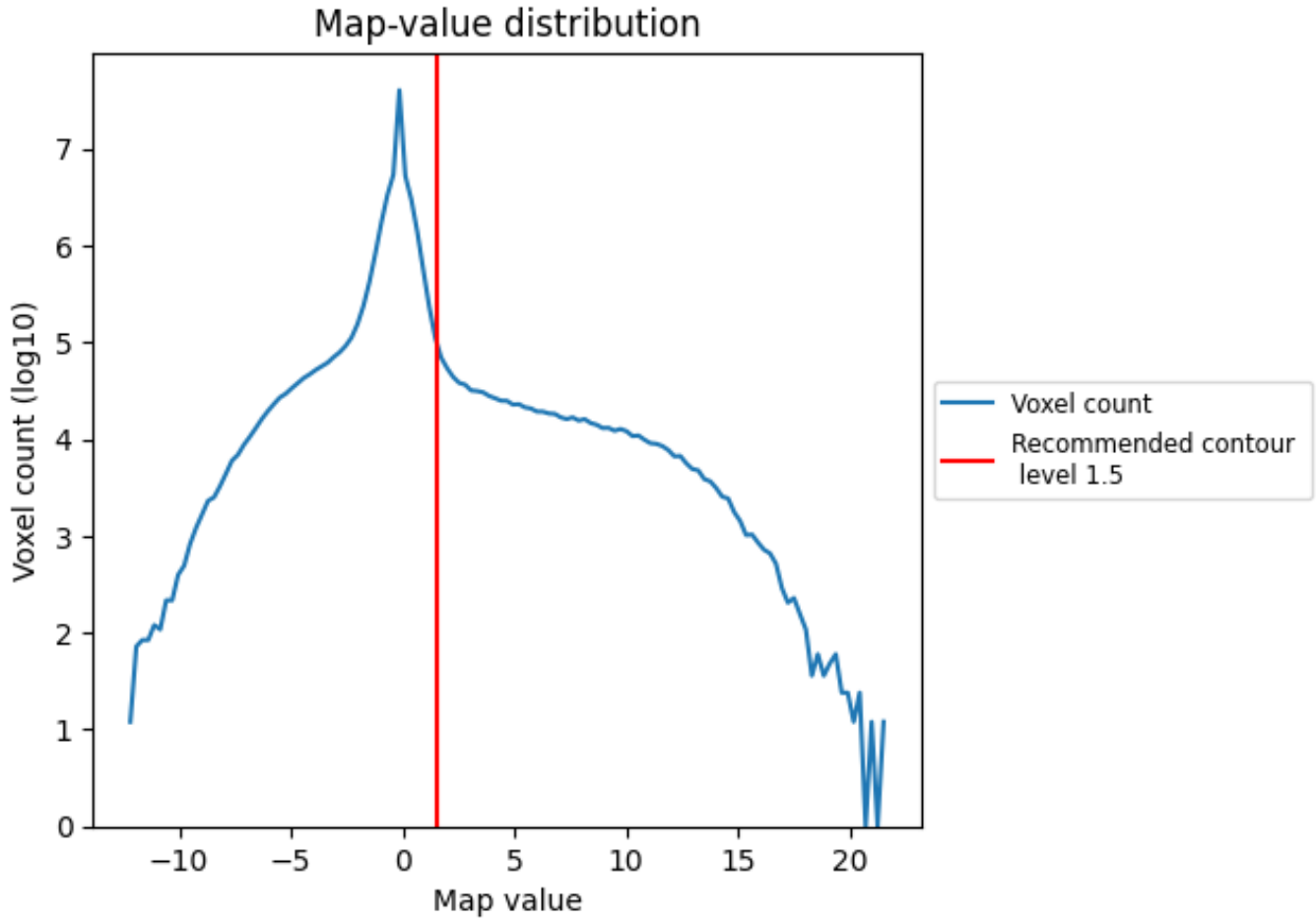
6.6 Mask visualisation (i)

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

7 Map analysis

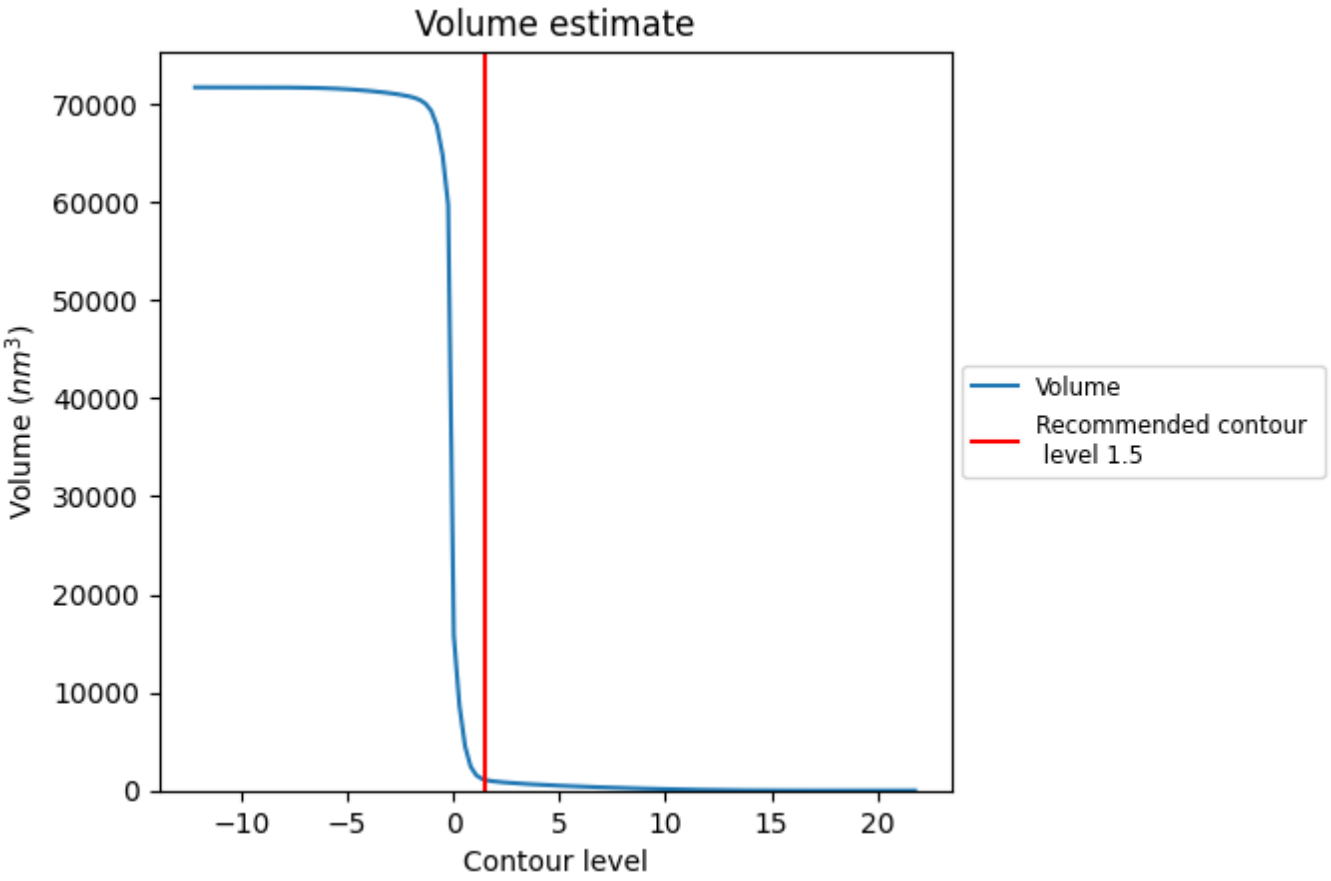
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

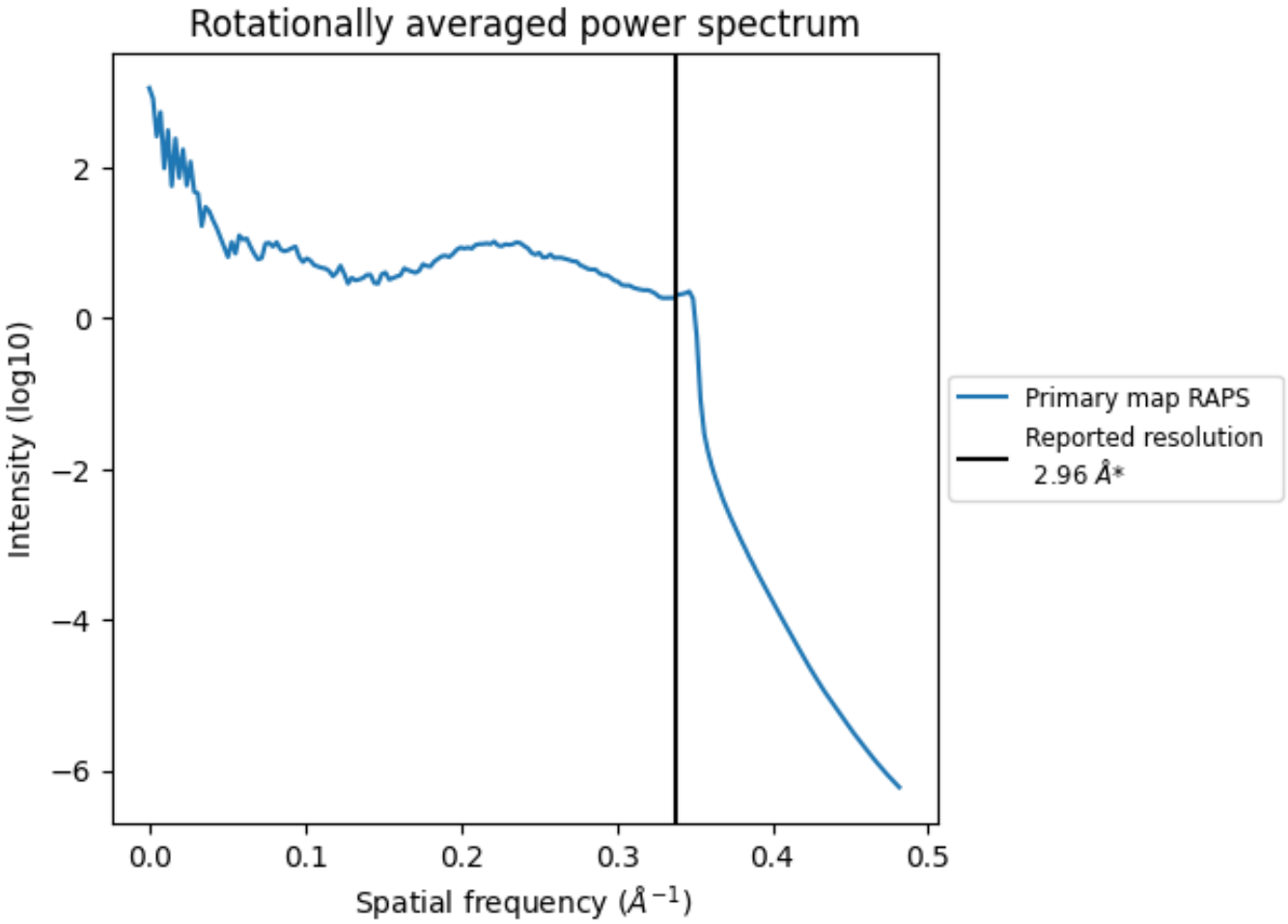
7.2 Volume estimate



The volume at the recommended contour level is 1106 nm^3; this corresponds to an approximate mass of 999 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 0.338 Å^{-1}

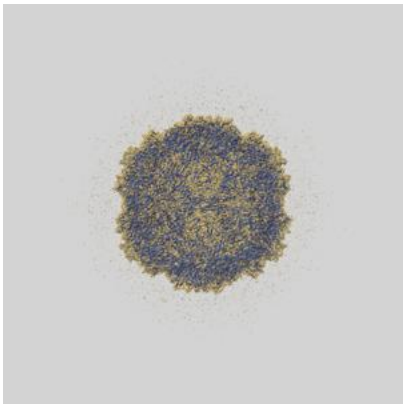
8 Fourier-Shell correlation

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

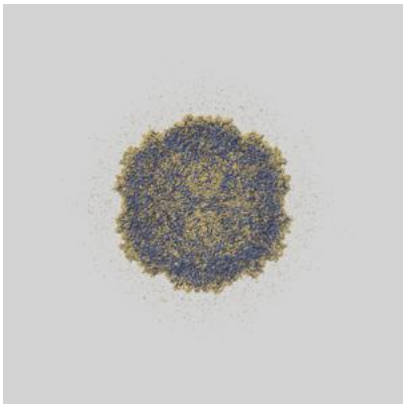
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-21667 and PDB model 6WH3. Per-residue inclusion information can be found in section 3 on page 12.

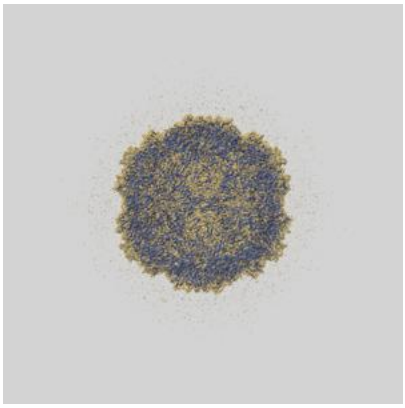
9.1 Map-model overlay



X



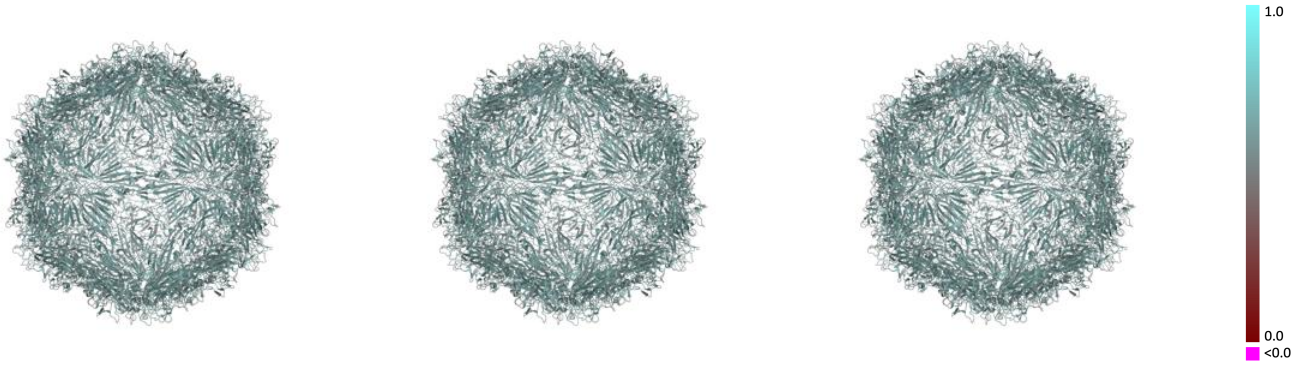
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 1.5 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.

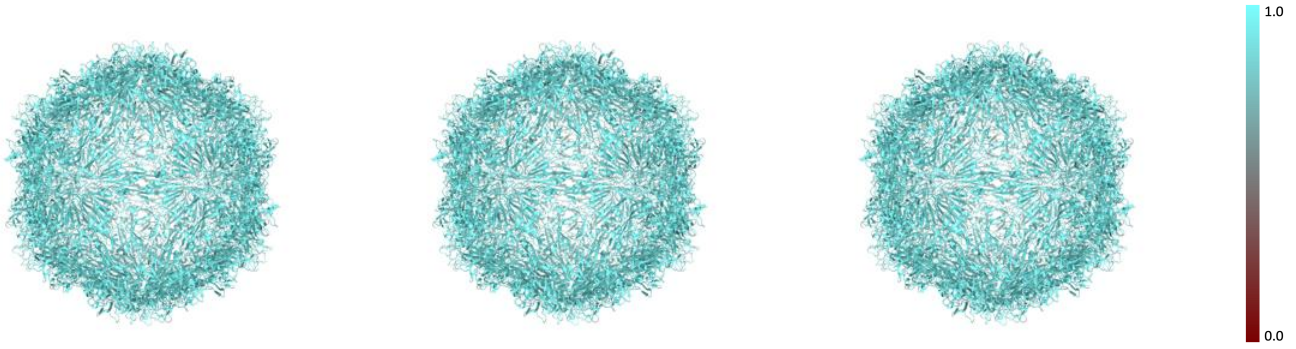
9.2 Q-score mapped to coordinate model (i)



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.

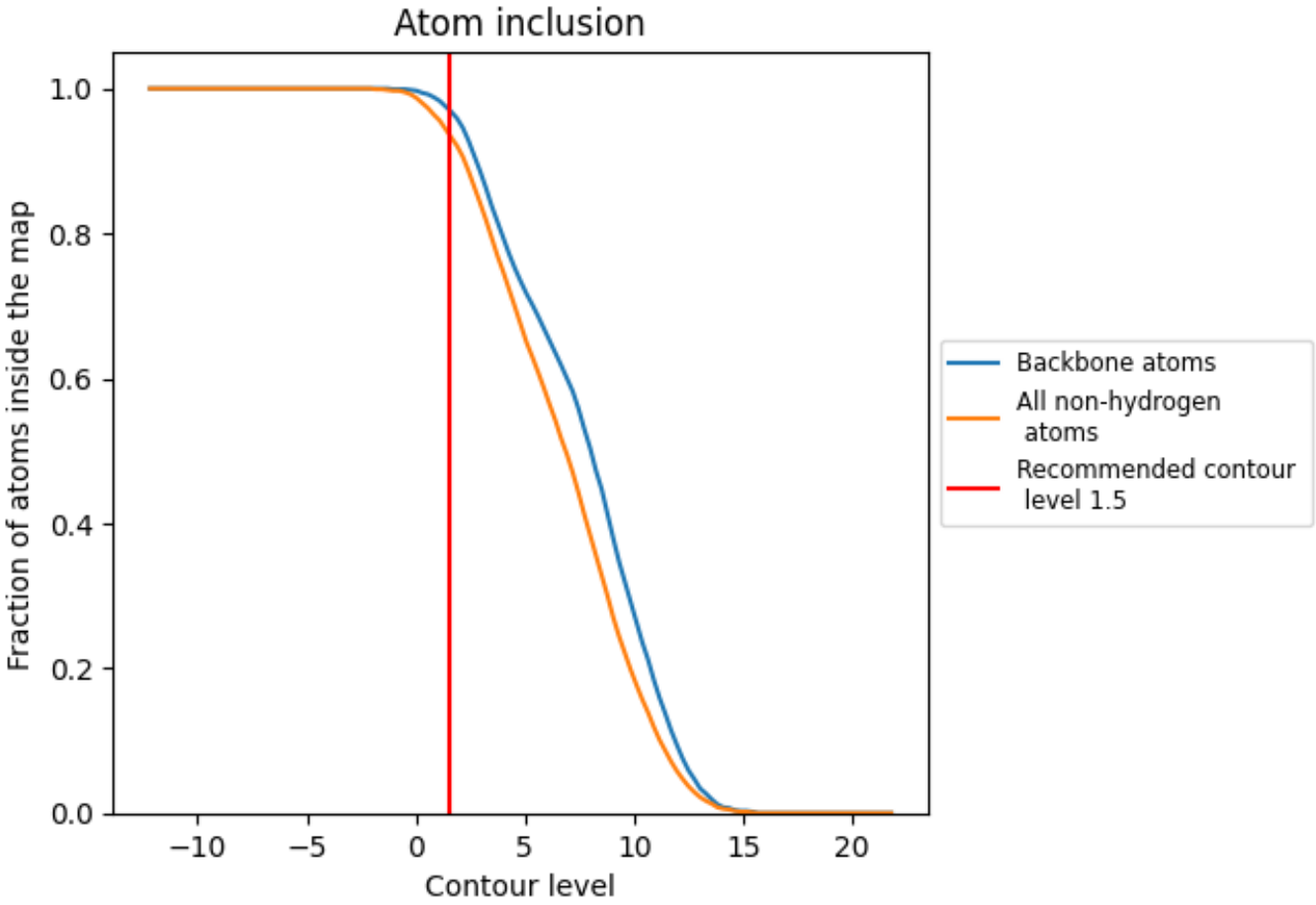
9.3 Atom inclusion mapped to coordinate model (i)



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 (1.5).

9.4 Atom inclusion (i)



At the recommended contour level, 97% of all backbone atoms, 94% 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 (1.5) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9380	0.5940
1	0.9390	0.5930
2	0.9370	0.5930
3	0.9400	0.5930
4	0.9390	0.5930
5	0.9390	0.5940
6	0.9390	0.5940
7	0.9380	0.5950
8	0.9390	0.5930
A	0.9400	0.5930
B	0.9380	0.5940
C	0.9350	0.5940
D	0.9390	0.5940
E	0.9370	0.5940
F	0.9400	0.5940
G	0.9370	0.5930
H	0.9380	0.5970
I	0.9360	0.5940
J	0.9380	0.5950
K	0.9360	0.5940
L	0.9380	0.5940
M	0.9370	0.5940
N	0.9390	0.5940
O	0.9370	0.5940
P	0.9380	0.5940
Q	0.9360	0.5950
R	0.9380	0.5960
S	0.9380	0.5940
T	0.9360	0.5940
U	0.9380	0.5940
V	0.9360	0.5950
W	0.9390	0.5940
X	0.9370	0.5950
Y	0.9390	0.5940
Z	0.9370	0.5940

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Chain	Atom inclusion	Q-score
a	0.9360	0.5930
b	0.9370	0.5950
c	0.9390	0.5950
d	0.9380	0.5960
e	0.9390	0.5930
f	0.9370	0.5940
g	0.9360	0.5950
h	0.9380	0.5920
i	0.9370	0.5940
j	0.9360	0.5950
k	0.9380	0.5950
l	0.9380	0.5950
m	0.9380	0.5940
n	0.9370	0.5930
o	0.9360	0.5950
p	0.9390	0.5930
q	0.9370	0.5920
r	0.9360	0.5930
s	0.9400	0.5930
t	0.9380	0.5940
u	0.9380	0.5950
v	0.9380	0.5950
w	0.9390	0.5950
x	0.9360	0.5940
y	0.9380	0.5950
z	0.9390	0.5930