Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 03:13 AM UTC

PDB ID	:	9CV0 / pdb_00009cv0
EMDB ID	:	EMD-45955
Title	:	Bufavirus 1 at pH 7.4
Authors	:	Gulkis, M.C.; McKenna, R.; Bennett, A.D.
Deposited on	:	2024-07-27
Resolution	:	2.84 Å(reported)
Based on initial model	:	6BWX

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

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

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

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

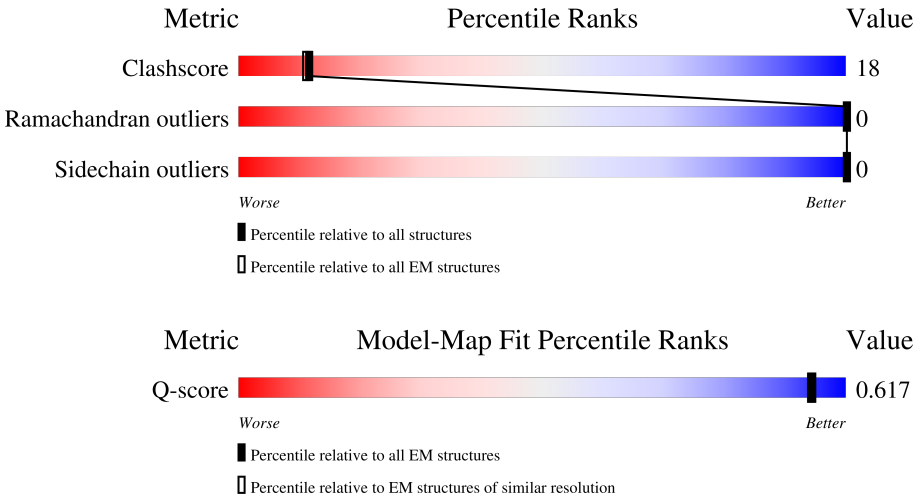
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.84 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	11884 (2.34 - 3.34)

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	707	50% 26% 24%
1	2	707	49% 27% 24%
1	3	707	50% 26% 24%
1	4	707	50% 26% 24%

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Mol	Chain	Length	Quality of chain
1	5	707	49% 27% 24%
1	6	707	50% 26% 24%
1	7	707	50% 26% 24%
1	8	707	49% 27% 24%
1	A	707	49% 27% 24%
1	B	707	49% 27% 24%
1	C	707	50% 26% 24%
1	D	707	49% 26% 24%
1	E	707	50% 26% 24%
1	F	707	49% 27% 24%
1	G	707	49% 27% 24%
1	H	707	50% 26% 24%
1	I	707	50% 26% 24%
1	J	707	49% 26% 24%
1	K	707	50% 26% 24%
1	L	707	49% 27% 24%
1	M	707	50% 26% 24%
1	N	707	49% 27% 24%
1	O	707	49% 27% 24%
1	P	707	49% 27% 24%
1	Q	707	49% 27% 24%
1	R	707	49% 27% 24%
1	S	707	49% 27% 24%
1	T	707	49% 27% 24%
1	U	707	49% 26% 24%

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Mol	Chain	Length	Quality of chain
1	V	707	49% 27% 24%
1	W	707	49% 27% 24%
1	X	707	49% 27% 24%
1	Y	707	50% 26% 24%
1	Z	707	49% 27% 24%
1	a	707	50% 26% 24%
1	b	707	49% 27% 24%
1	c	707	48% 27% 24%
1	d	707	50% 26% 24%
1	e	707	49% 27% 24%
1	f	707	50% 26% 24%
1	g	707	50% 26% 24%
1	h	707	50% 26% 24%
1	i	707	49% 27% 24%
1	j	707	49% 27% 24%
1	k	707	50% 26% 24%
1	l	707	50% 26% 24%
1	m	707	48% 28% 24%
1	n	707	50% 26% 24%
1	o	707	49% 27% 24%
1	p	707	49% 27% 24%
1	q	707	48% 27% 24%
1	r	707	49% 27% 24%
1	s	707	49% 26% 24%
1	t	707	49% 27% 24%

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Mol	Chain	Length	Quality of chain
1	u	707	
1	v	707	
1	w	707	
1	x	707	
1	y	707	
1	z	707	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 261180 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 VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	B	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	C	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	D	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	E	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	F	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	G	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	H	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	I	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	J	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	K	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	L	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	M	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	N	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	O	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	P	537	Total 4353	C 2754	N 764	O 821	S 14	0	0
1	Q	537	Total 4353	C 2754	N 764	O 821	S 14	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	S	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	T	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	U	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	V	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	W	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	X	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	Y	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	Z	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	a	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	b	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	c	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	d	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	e	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	f	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	g	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	h	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	i	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	j	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	k	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	l	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	n	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	o	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	p	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	q	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	r	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	s	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	t	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	u	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	v	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	w	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	x	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	y	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	z	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	1	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	2	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	3	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	4	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	5	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	6	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		
1	7	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	537	Total	C	N	O	S	0	0
			4353	2754	764	821	14		

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	35	VAL	ILE	conflict	UNP A0A097PIM0
B	35	VAL	ILE	conflict	UNP A0A097PIM0
C	35	VAL	ILE	conflict	UNP A0A097PIM0
D	35	VAL	ILE	conflict	UNP A0A097PIM0
E	35	VAL	ILE	conflict	UNP A0A097PIM0
F	35	VAL	ILE	conflict	UNP A0A097PIM0
G	35	VAL	ILE	conflict	UNP A0A097PIM0
H	35	VAL	ILE	conflict	UNP A0A097PIM0
I	35	VAL	ILE	conflict	UNP A0A097PIM0
J	35	VAL	ILE	conflict	UNP A0A097PIM0
K	35	VAL	ILE	conflict	UNP A0A097PIM0
L	35	VAL	ILE	conflict	UNP A0A097PIM0
M	35	VAL	ILE	conflict	UNP A0A097PIM0
N	35	VAL	ILE	conflict	UNP A0A097PIM0
O	35	VAL	ILE	conflict	UNP A0A097PIM0
P	35	VAL	ILE	conflict	UNP A0A097PIM0
Q	35	VAL	ILE	conflict	UNP A0A097PIM0
R	35	VAL	ILE	conflict	UNP A0A097PIM0
S	35	VAL	ILE	conflict	UNP A0A097PIM0
T	35	VAL	ILE	conflict	UNP A0A097PIM0
U	35	VAL	ILE	conflict	UNP A0A097PIM0
V	35	VAL	ILE	conflict	UNP A0A097PIM0
W	35	VAL	ILE	conflict	UNP A0A097PIM0
X	35	VAL	ILE	conflict	UNP A0A097PIM0
Y	35	VAL	ILE	conflict	UNP A0A097PIM0
Z	35	VAL	ILE	conflict	UNP A0A097PIM0
a	35	VAL	ILE	conflict	UNP A0A097PIM0
b	35	VAL	ILE	conflict	UNP A0A097PIM0
c	35	VAL	ILE	conflict	UNP A0A097PIM0
d	35	VAL	ILE	conflict	UNP A0A097PIM0
e	35	VAL	ILE	conflict	UNP A0A097PIM0
f	35	VAL	ILE	conflict	UNP A0A097PIM0
g	35	VAL	ILE	conflict	UNP A0A097PIM0
h	35	VAL	ILE	conflict	UNP A0A097PIM0
i	35	VAL	ILE	conflict	UNP A0A097PIM0
j	35	VAL	ILE	conflict	UNP A0A097PIM0

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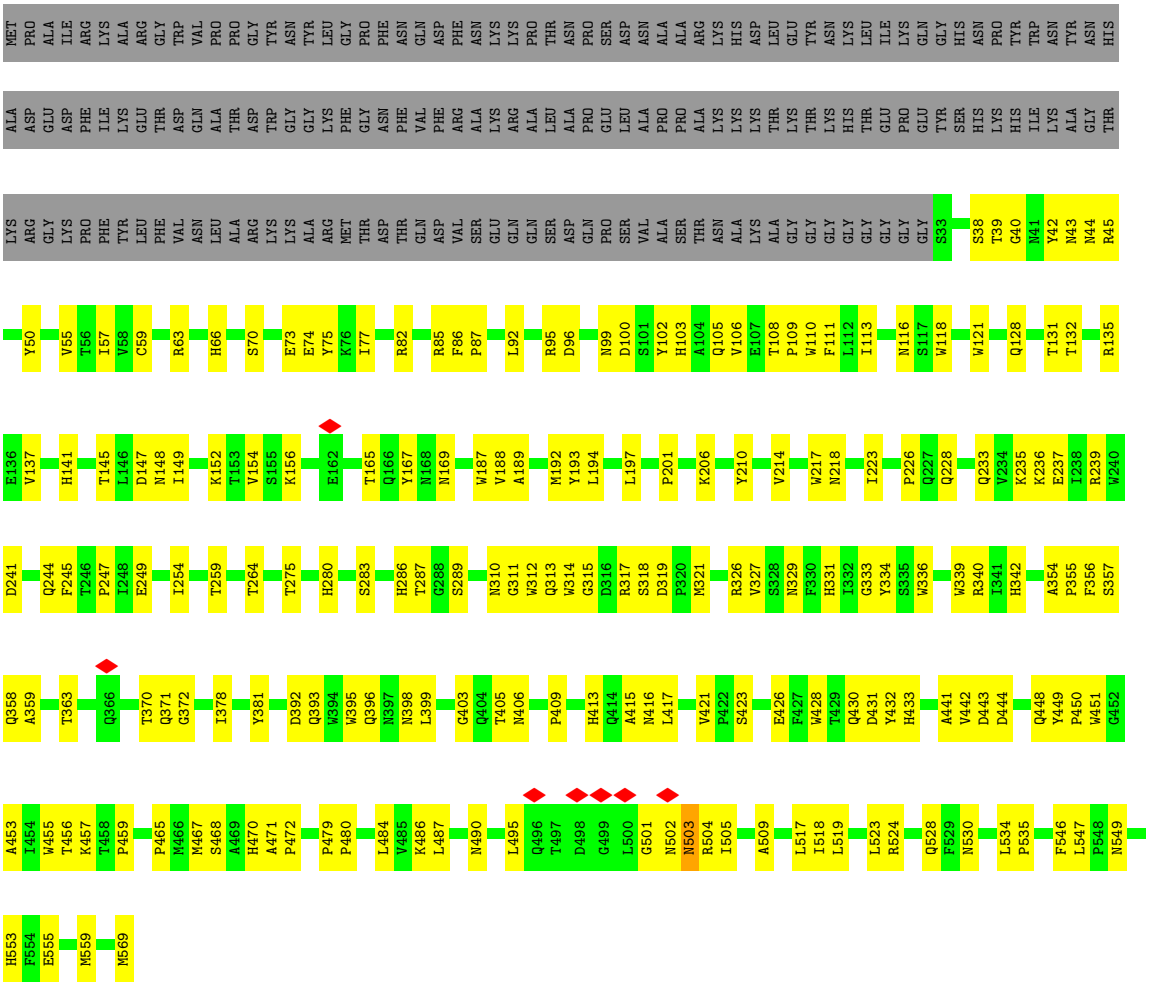
Chain	Residue	Modelled	Actual	Comment	Reference
k	35	VAL	ILE	conflict	UNP A0A097PIM0
l	35	VAL	ILE	conflict	UNP A0A097PIM0
m	35	VAL	ILE	conflict	UNP A0A097PIM0
n	35	VAL	ILE	conflict	UNP A0A097PIM0
o	35	VAL	ILE	conflict	UNP A0A097PIM0
p	35	VAL	ILE	conflict	UNP A0A097PIM0
q	35	VAL	ILE	conflict	UNP A0A097PIM0
r	35	VAL	ILE	conflict	UNP A0A097PIM0
s	35	VAL	ILE	conflict	UNP A0A097PIM0
t	35	VAL	ILE	conflict	UNP A0A097PIM0
u	35	VAL	ILE	conflict	UNP A0A097PIM0
v	35	VAL	ILE	conflict	UNP A0A097PIM0
w	35	VAL	ILE	conflict	UNP A0A097PIM0
x	35	VAL	ILE	conflict	UNP A0A097PIM0
y	35	VAL	ILE	conflict	UNP A0A097PIM0
z	35	VAL	ILE	conflict	UNP A0A097PIM0
1	35	VAL	ILE	conflict	UNP A0A097PIM0
2	35	VAL	ILE	conflict	UNP A0A097PIM0
3	35	VAL	ILE	conflict	UNP A0A097PIM0
4	35	VAL	ILE	conflict	UNP A0A097PIM0
5	35	VAL	ILE	conflict	UNP A0A097PIM0
6	35	VAL	ILE	conflict	UNP A0A097PIM0
7	35	VAL	ILE	conflict	UNP A0A097PIM0
8	35	VAL	ILE	conflict	UNP A0A097PIM0

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.

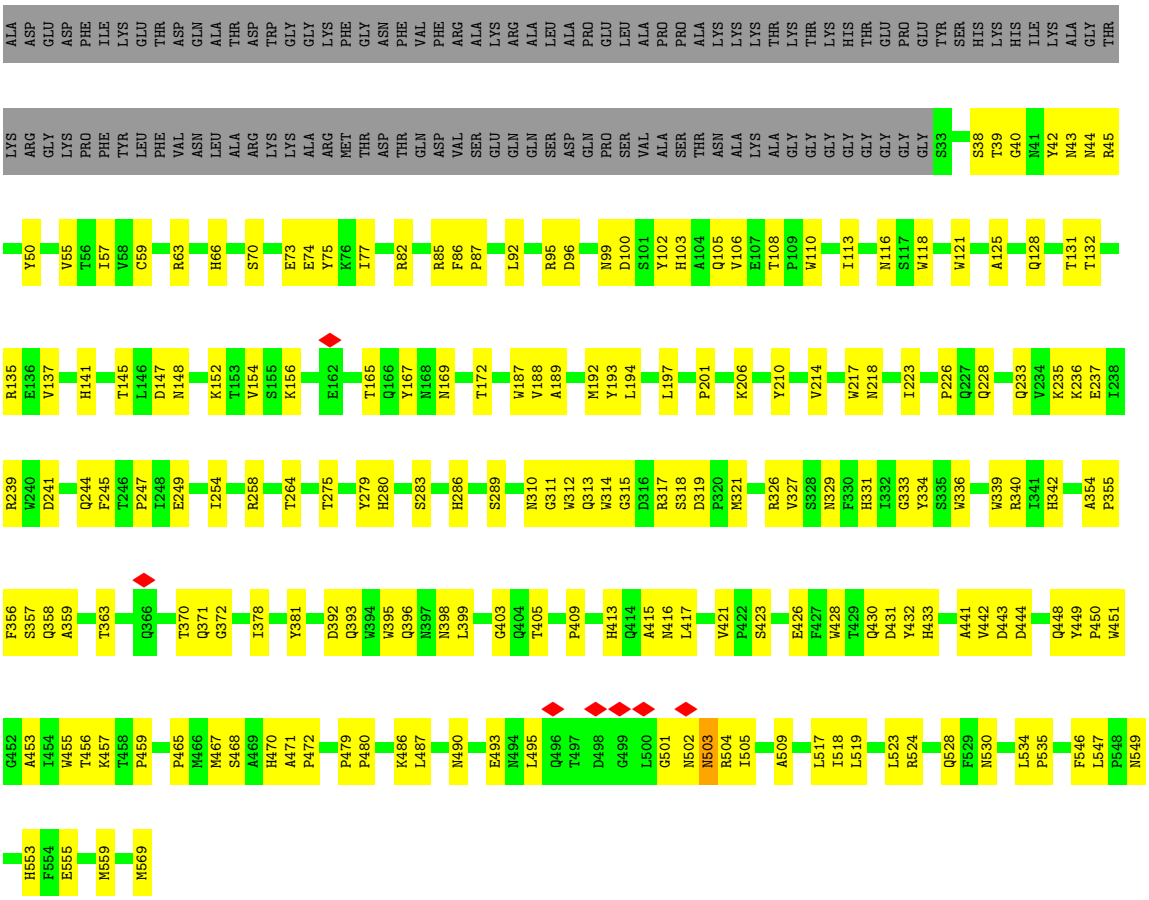
- Molecule 1: VP1

Chain A:



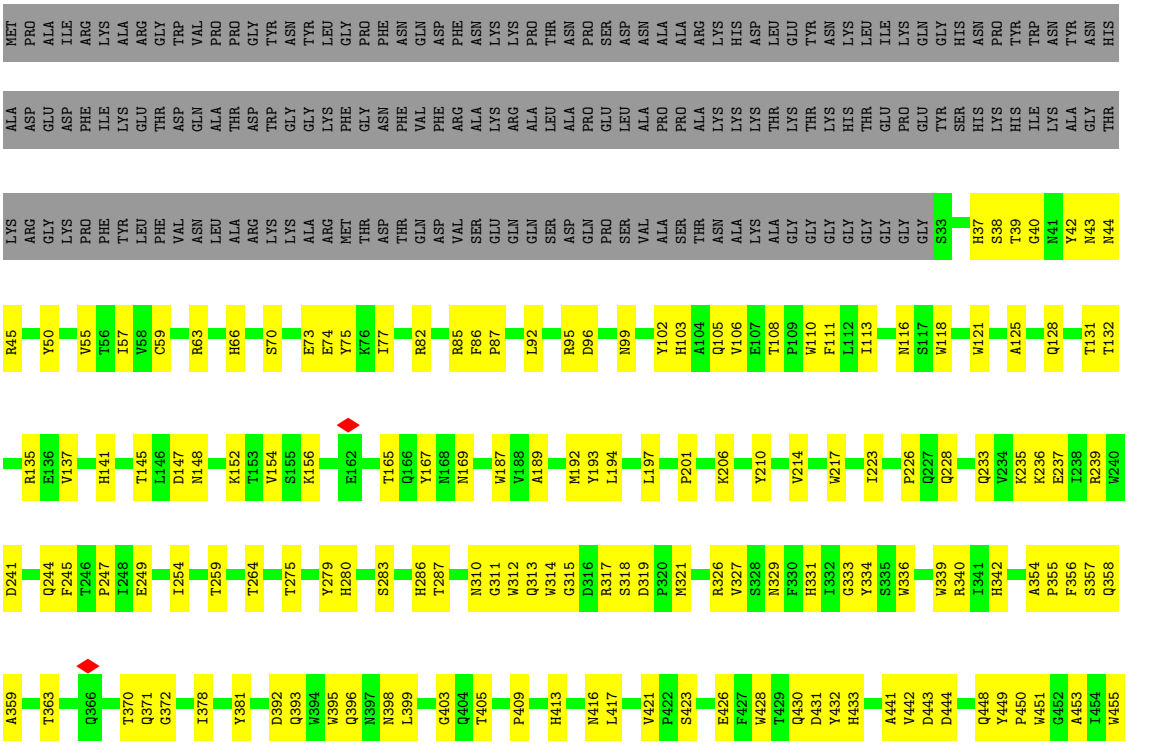
- Molecule 1: VP1

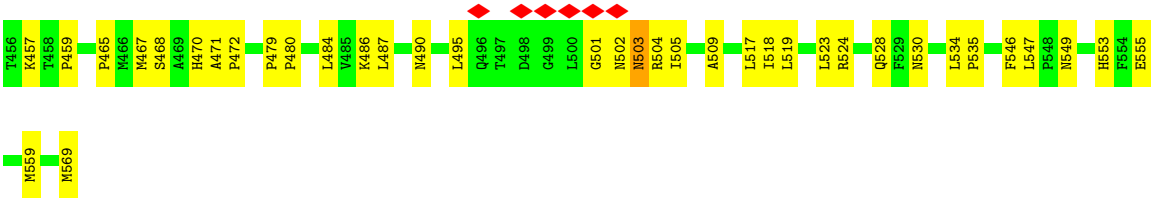
Chain B:



• Molecule 1: VP1

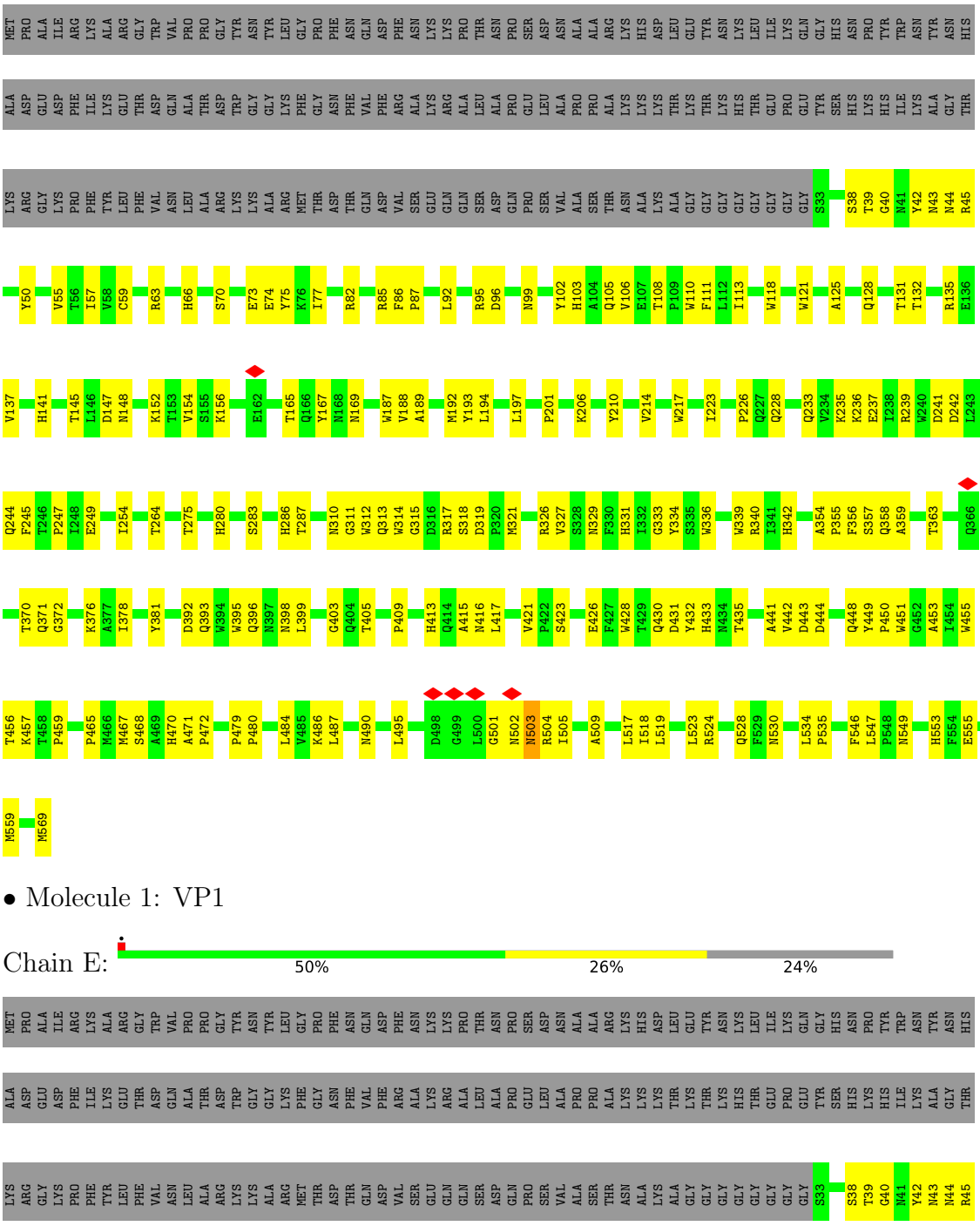
Chain C:





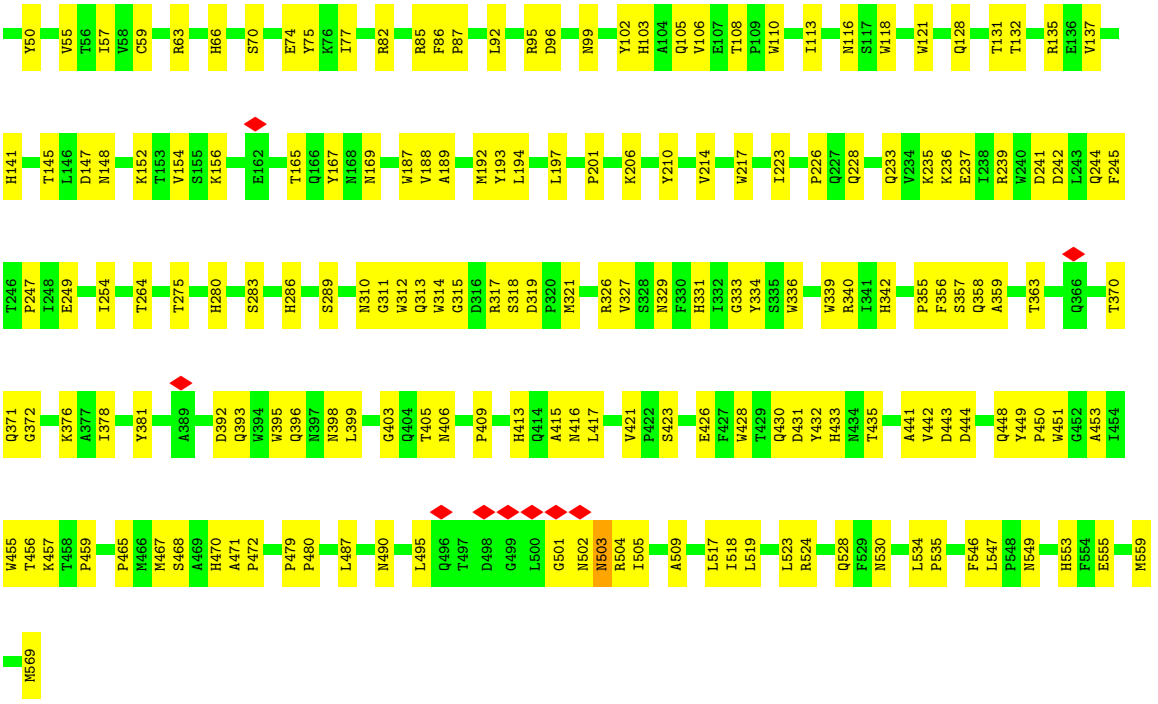
• Molecule 1: VP1

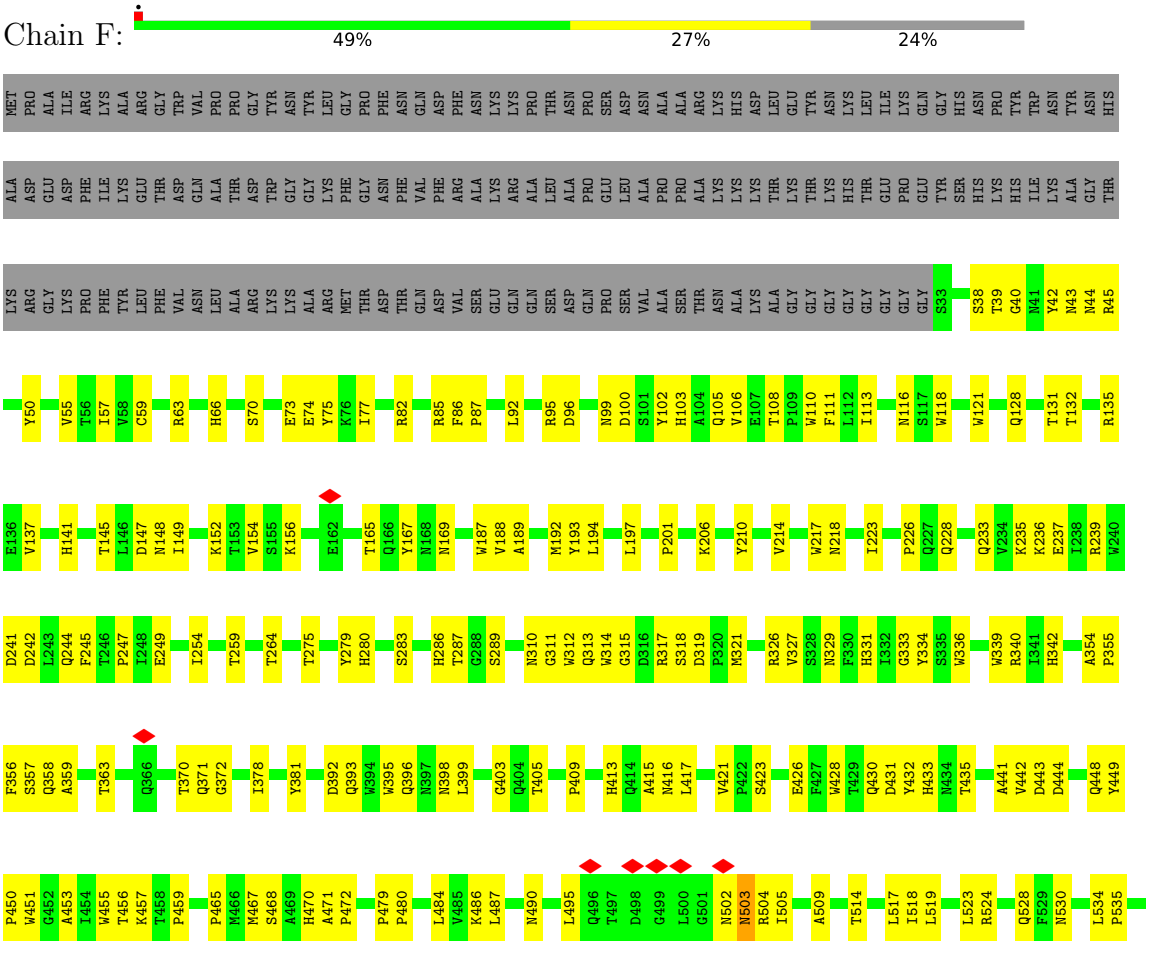
Chain D:



• Molecule 1: VP1

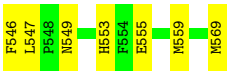
Chain E:





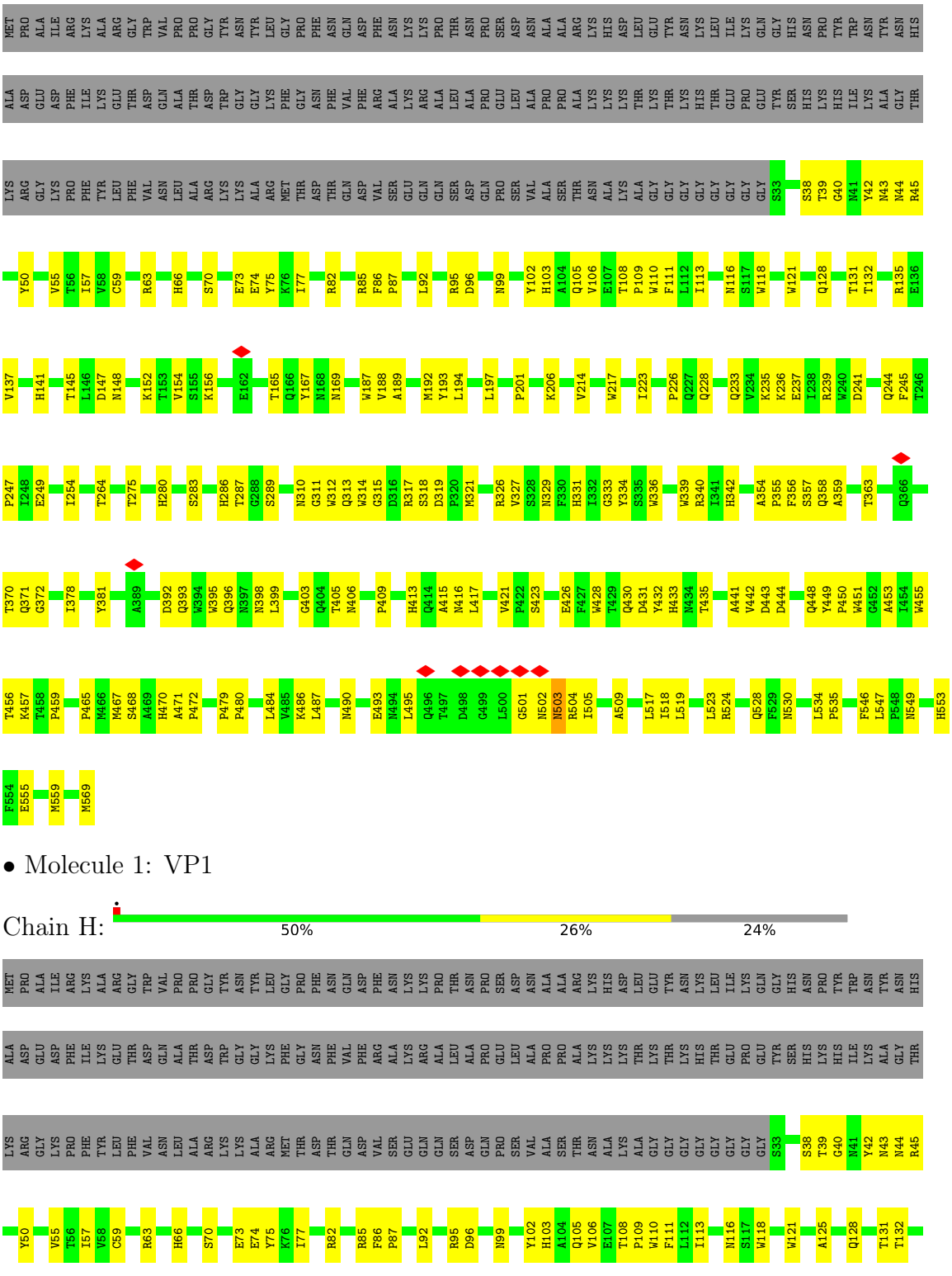
• Molecule 1: VP1

Chain F:



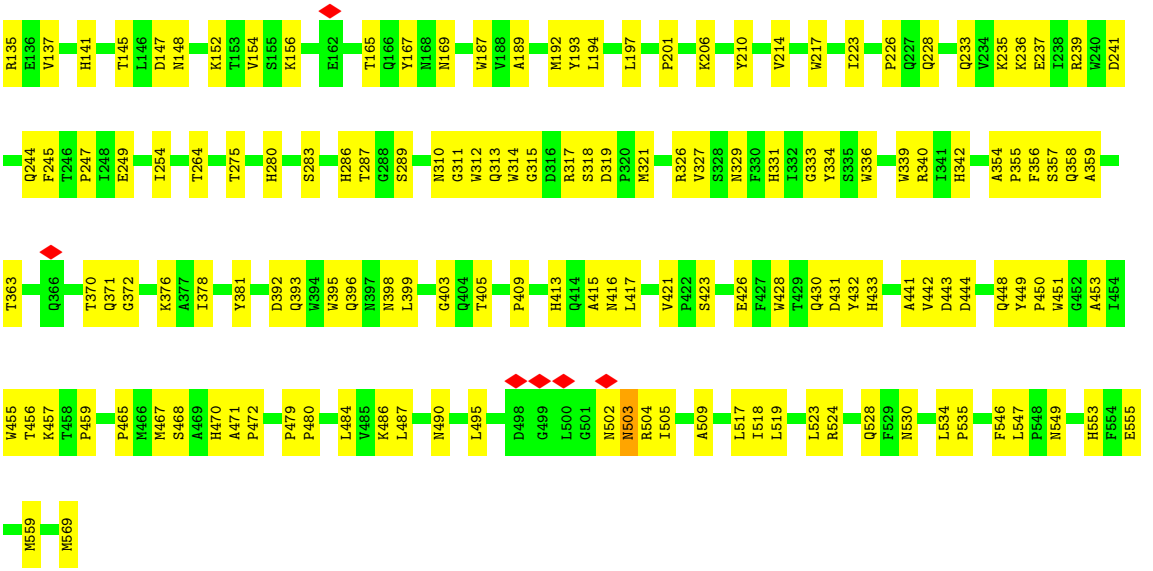
• Molecule 1: VP1

Chain G:



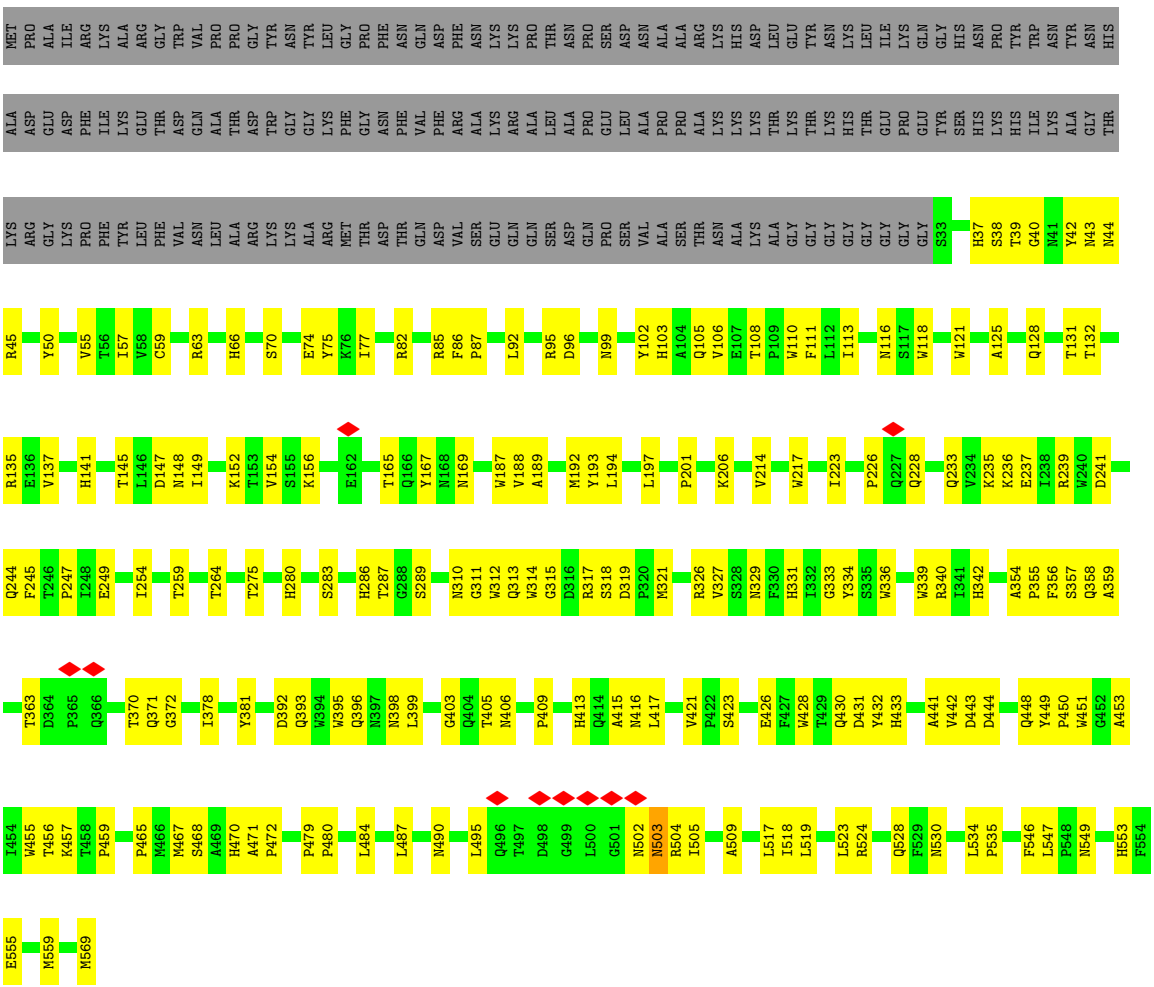
• Molecule 1: VP1

Chain H:



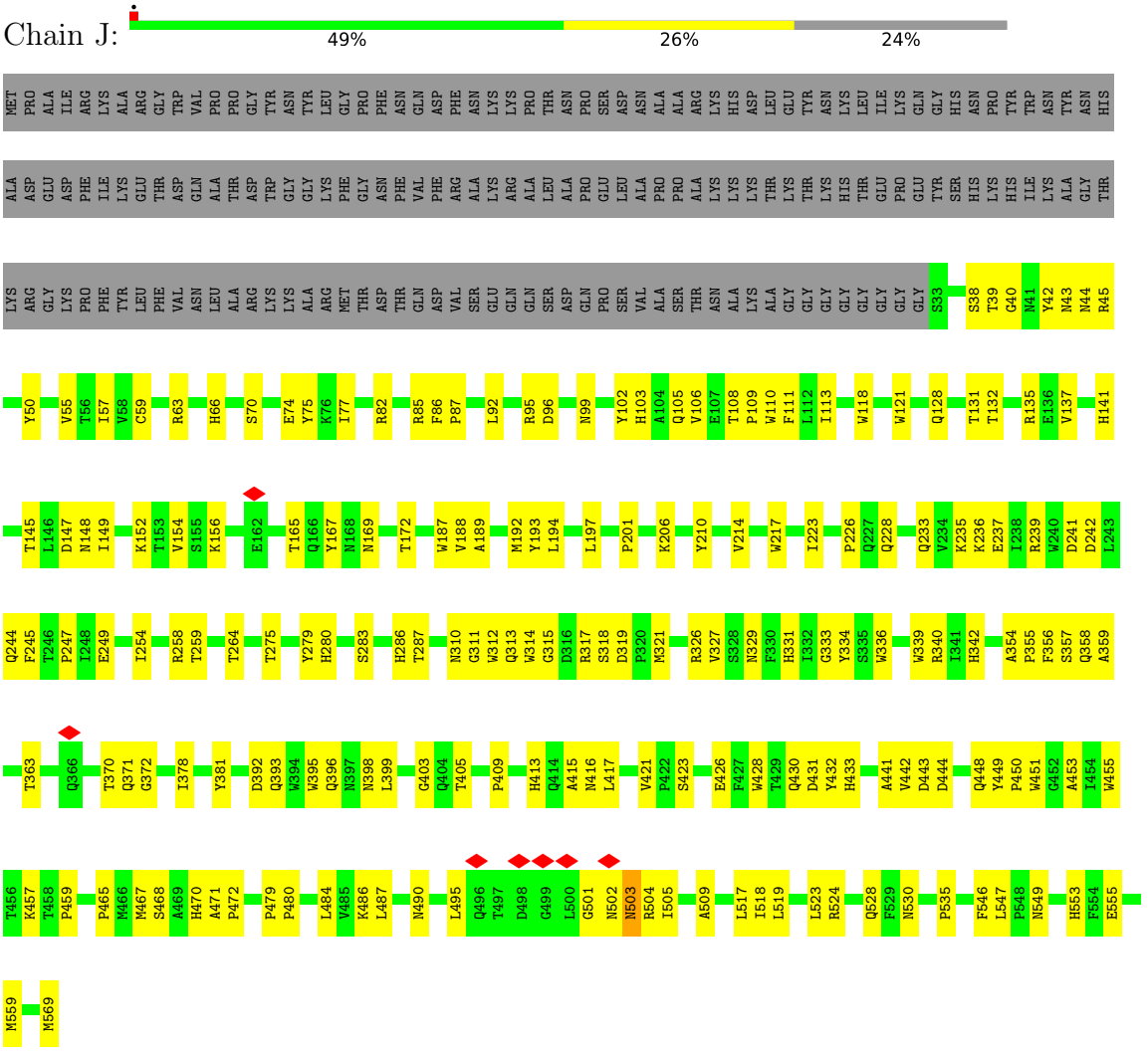
• Molecule 1: VP1

Chain I:



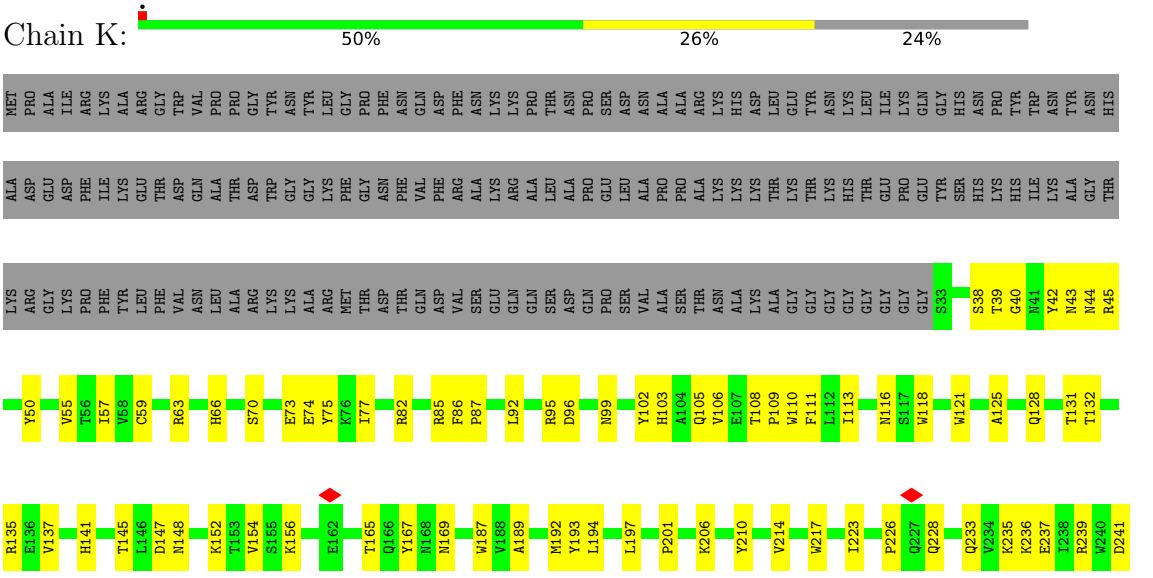
• Molecule 1: VP1

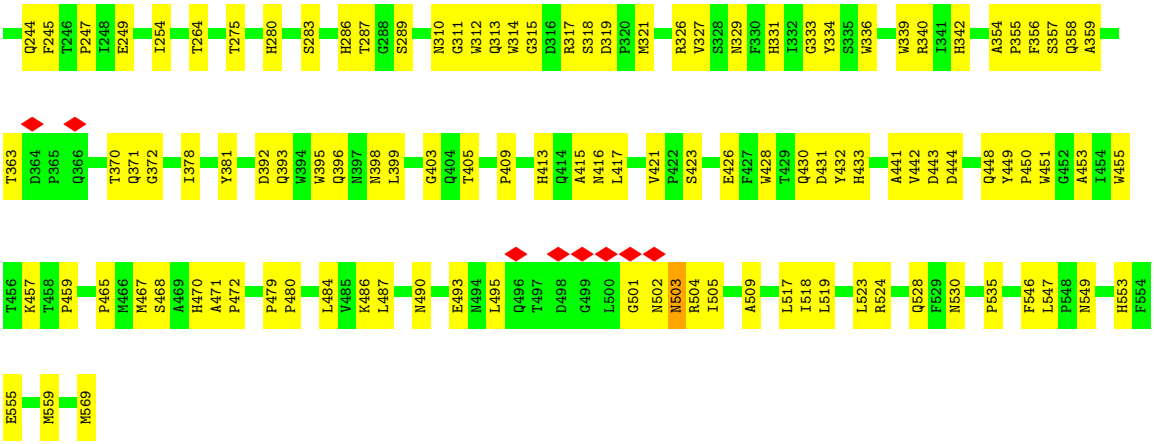
Chain J:



• Molecule 1: VP1

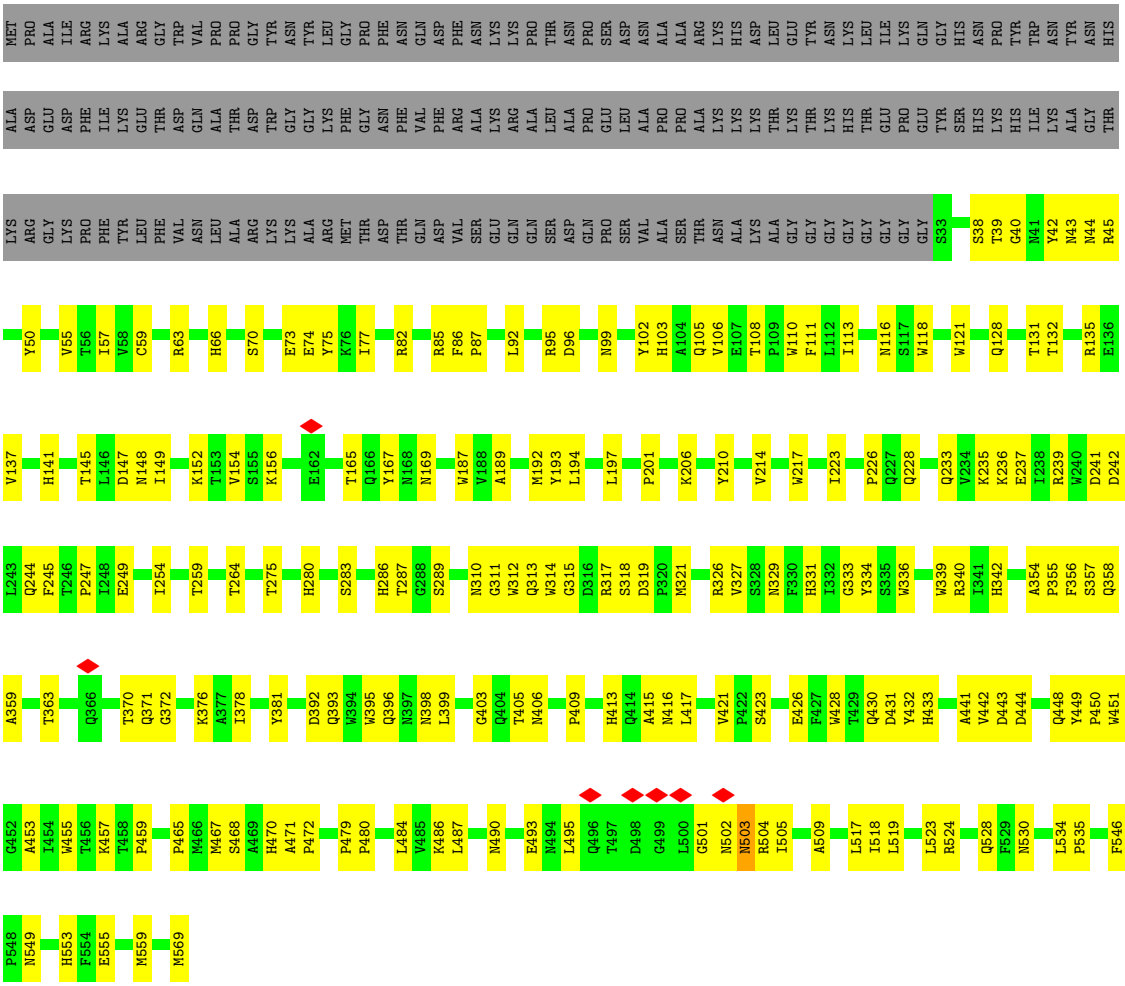
Chain K:





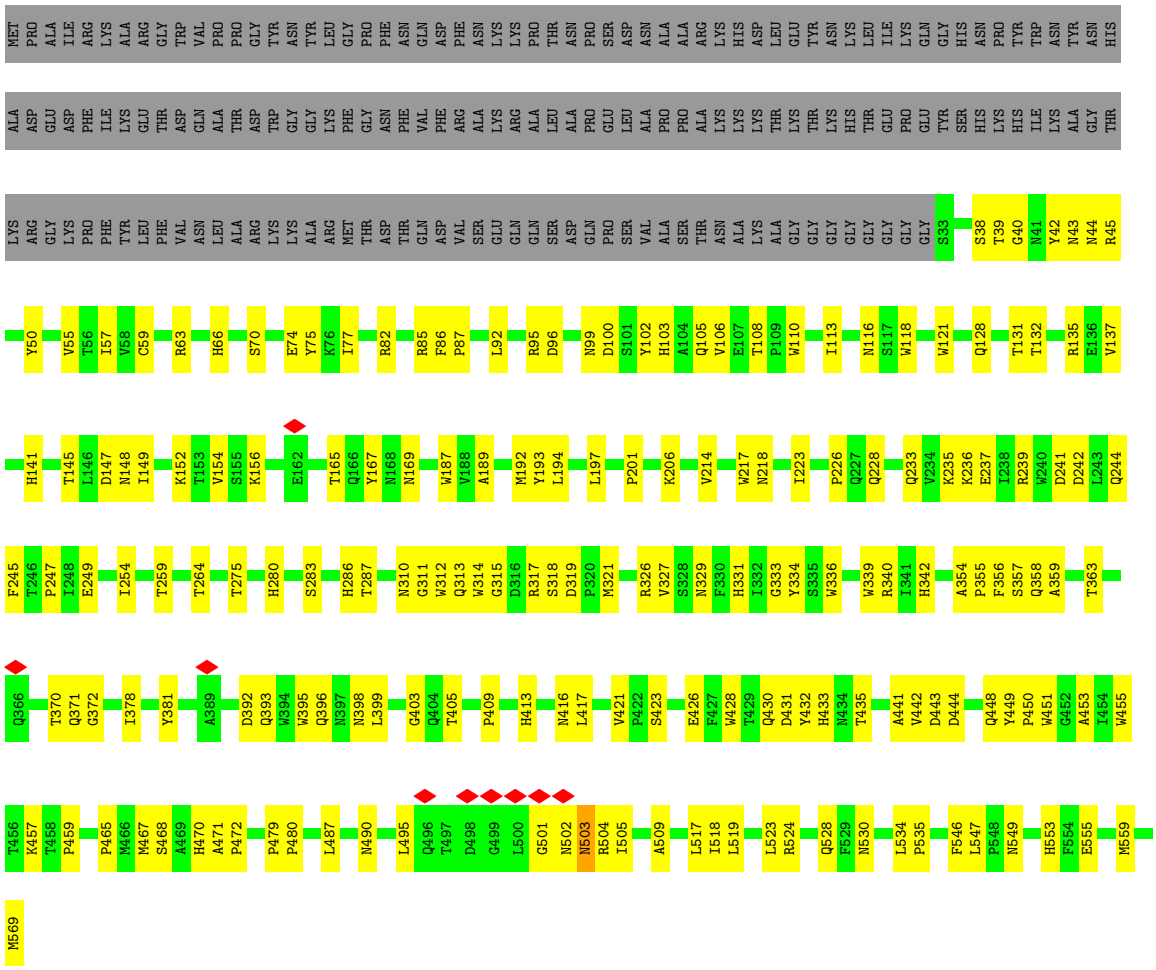
• Molecule 1: VP1

Chain L:



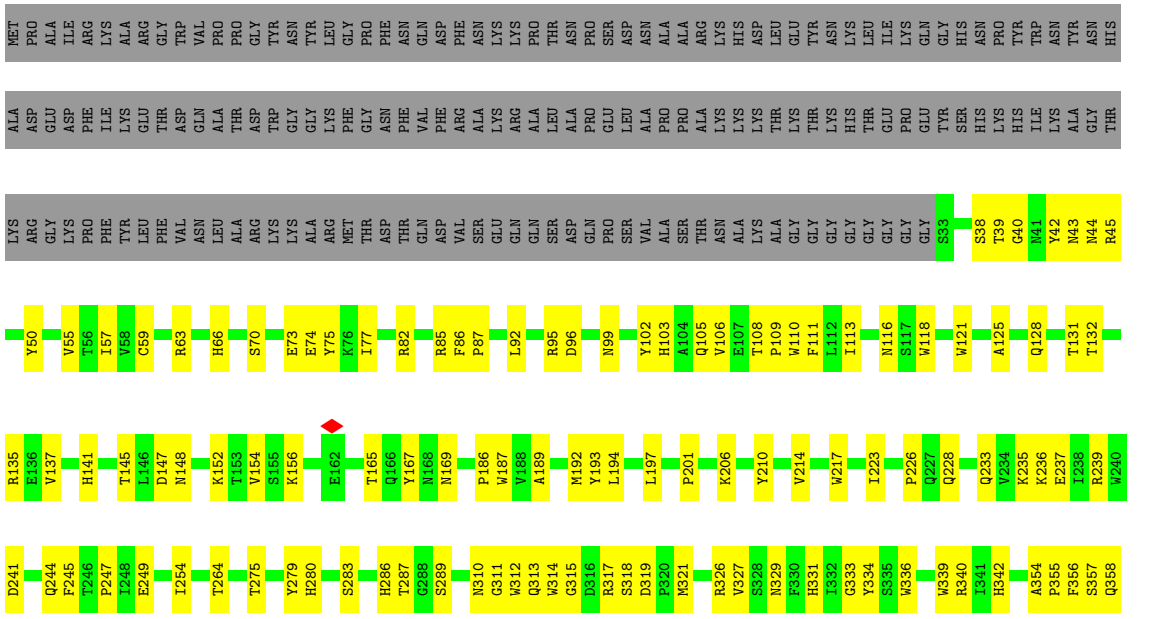
• Molecule 1: VP1

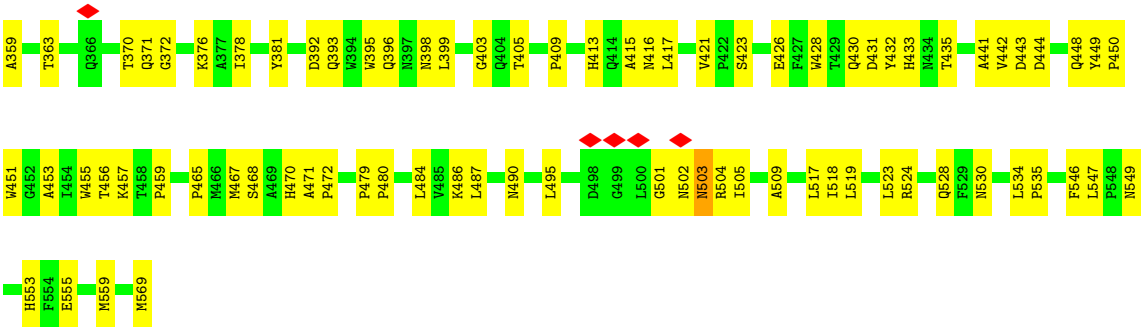
Chain M:



• Molecule 1: VP1

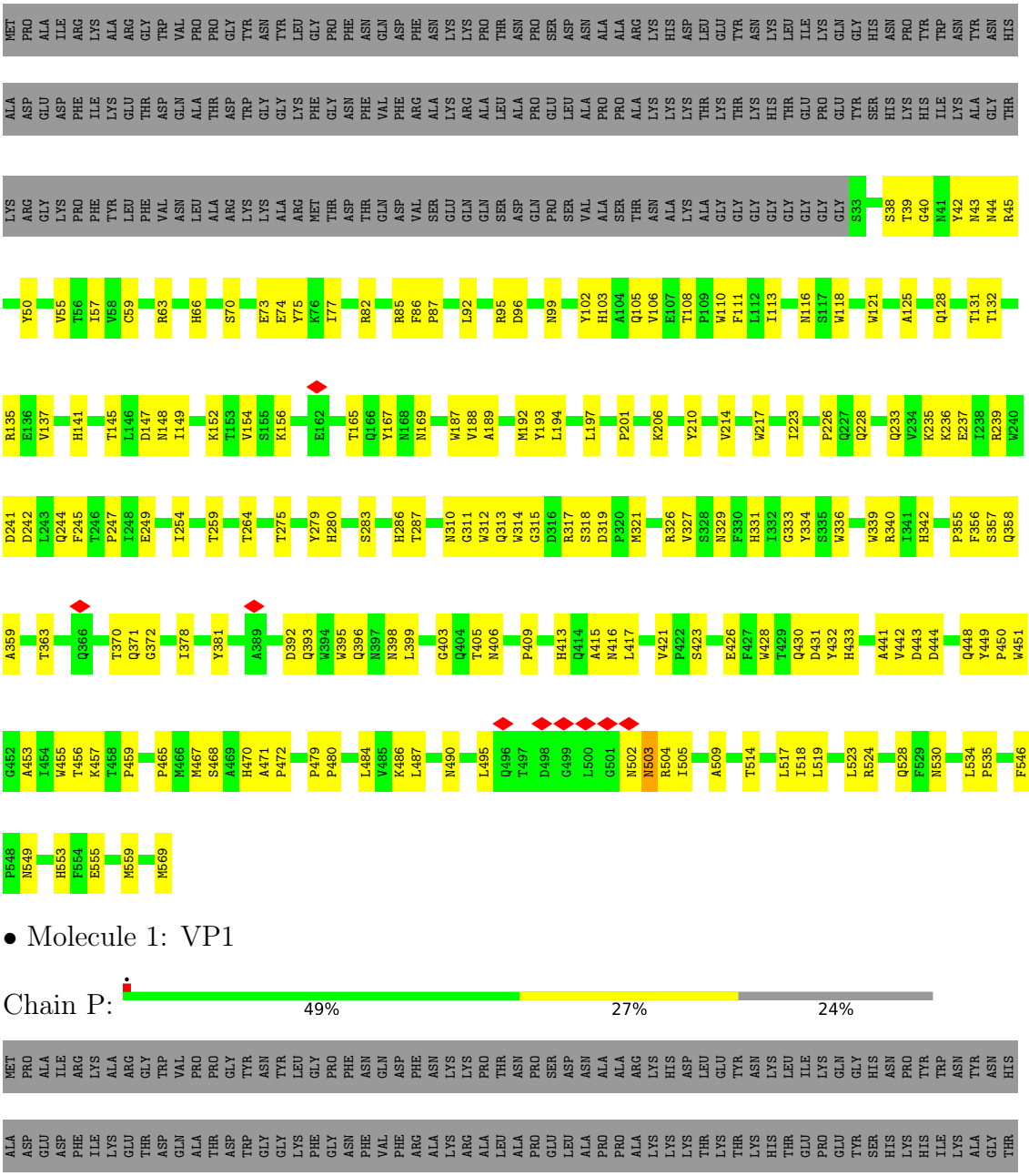
Chain N:





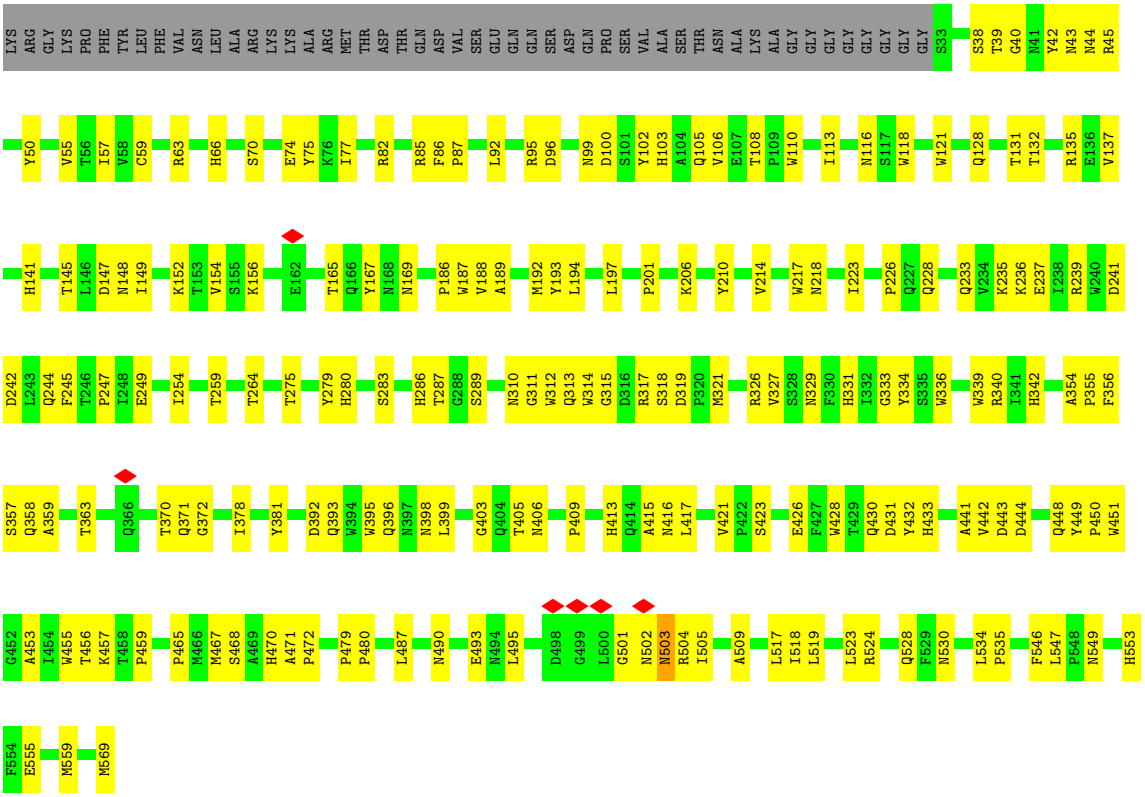
• Molecule 1: VP1

Chain O:



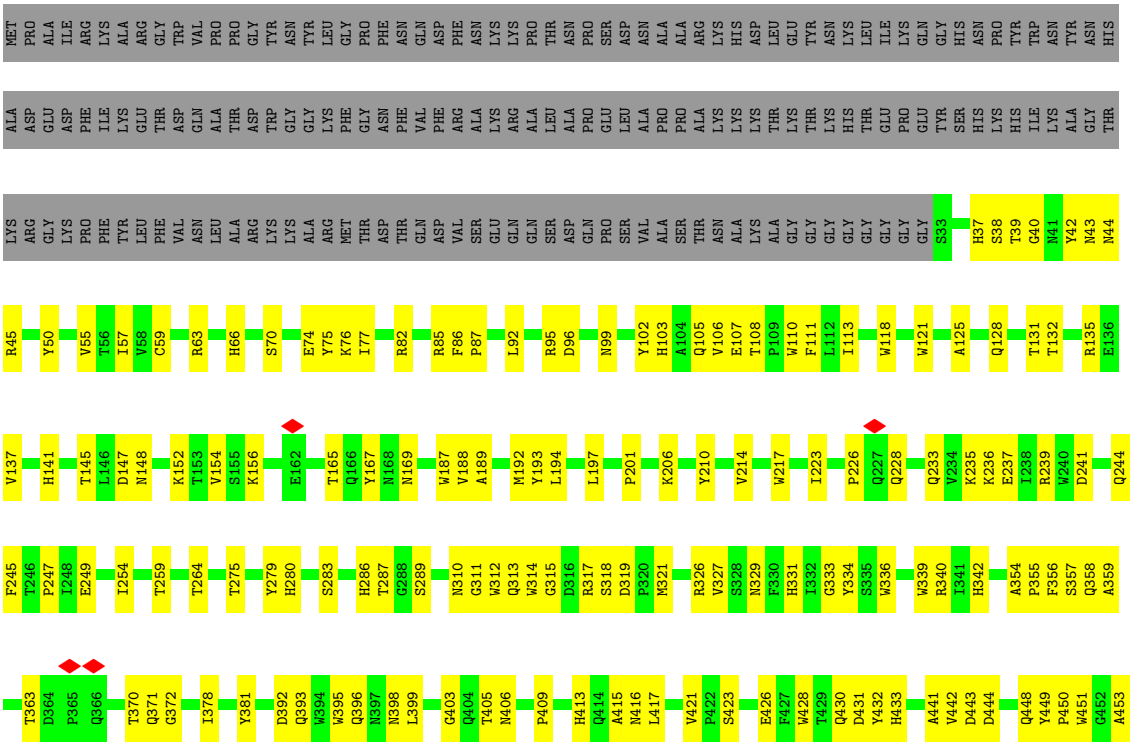
• Molecule 1: VP1

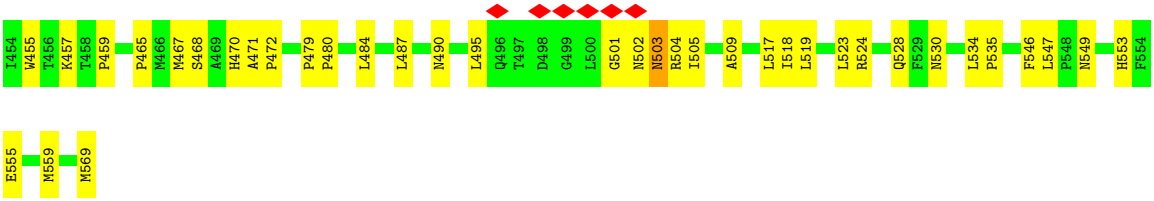
Chain P:



• Molecule 1: VP1

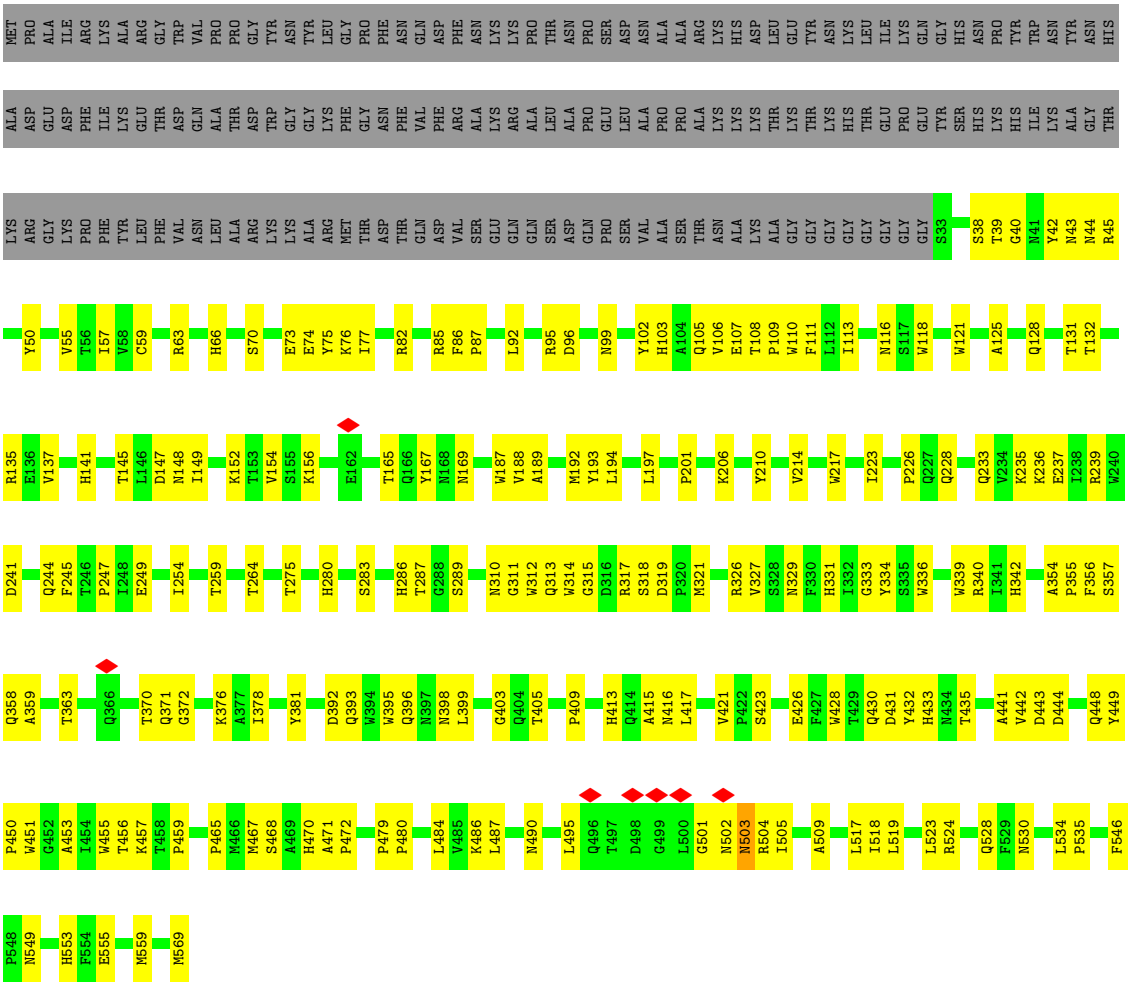
Chain Q:





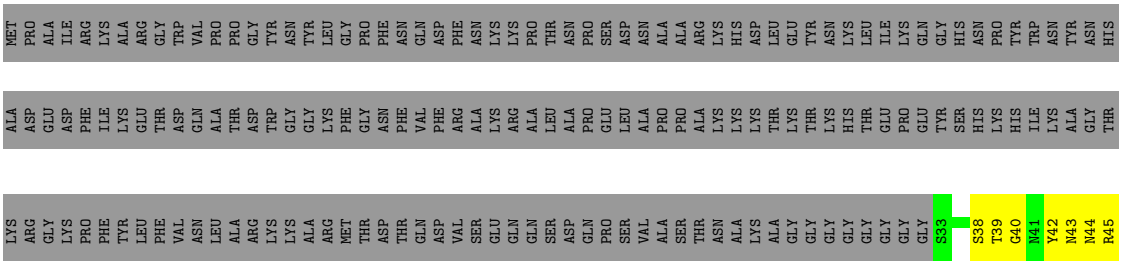
• Molecule 1: VP1

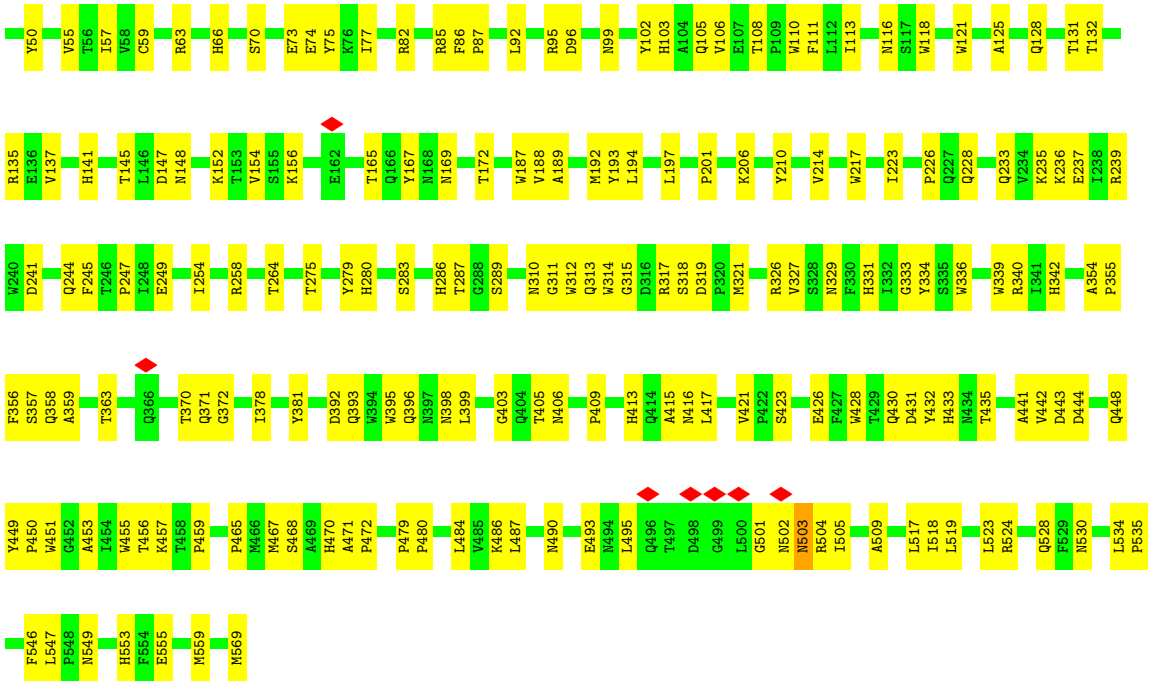
Chain R:



• Molecule 1: VP1

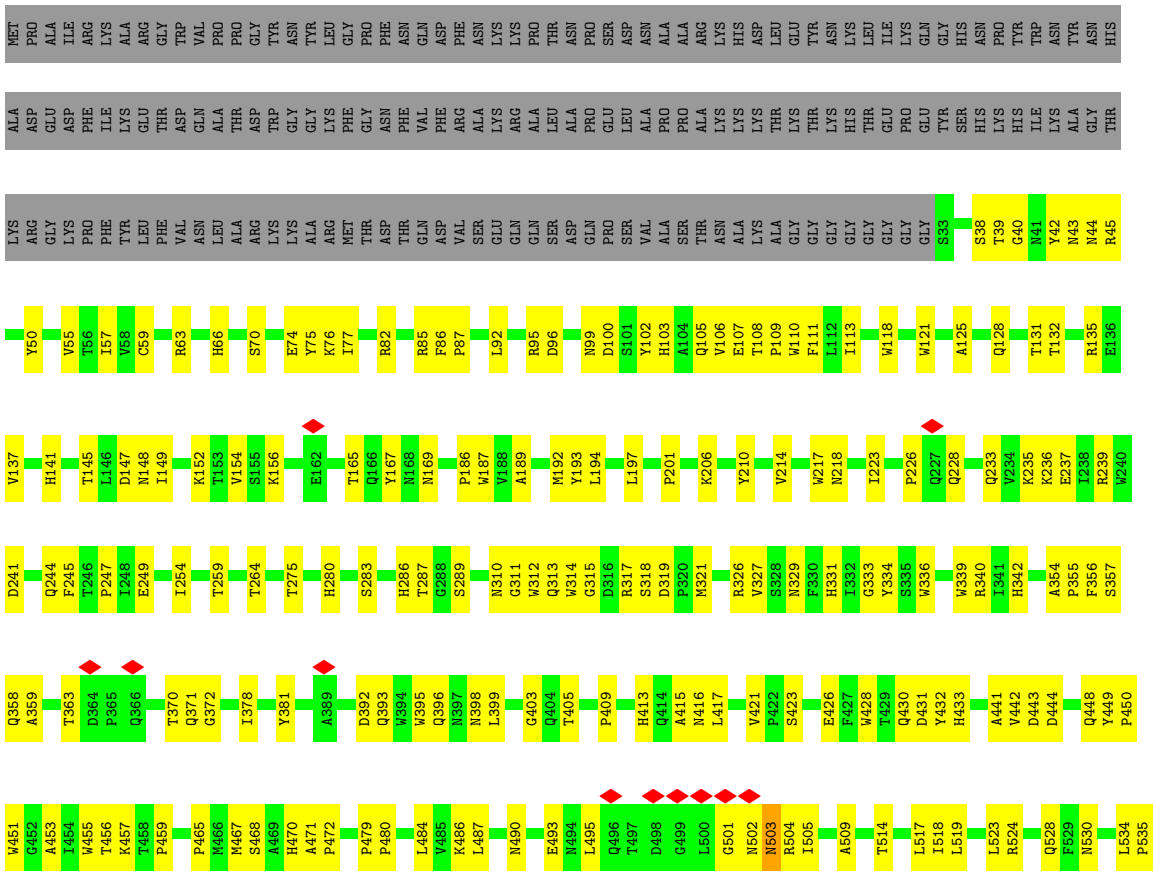
Chain S:





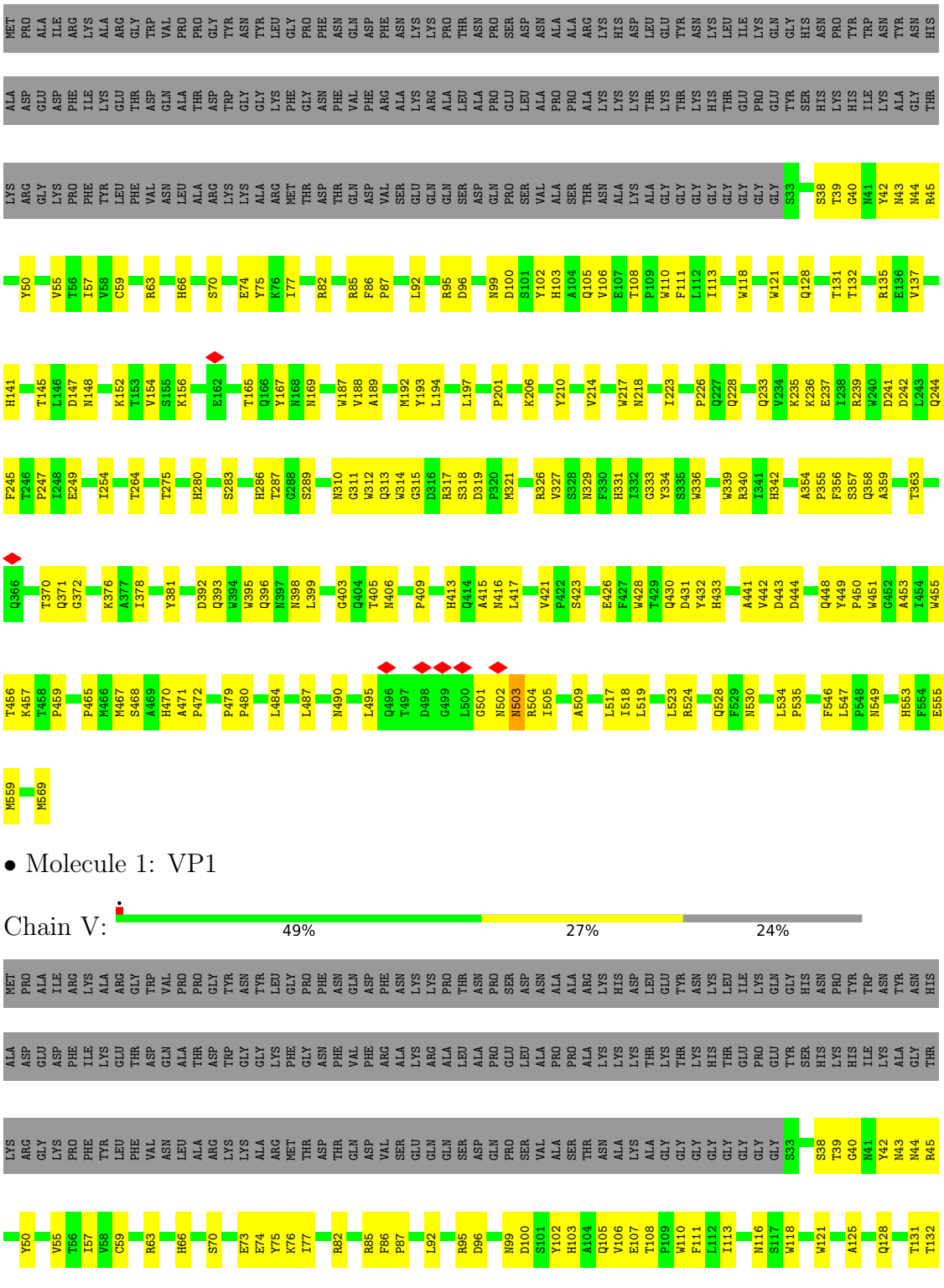
• Molecule 1: VP1

Chain T:



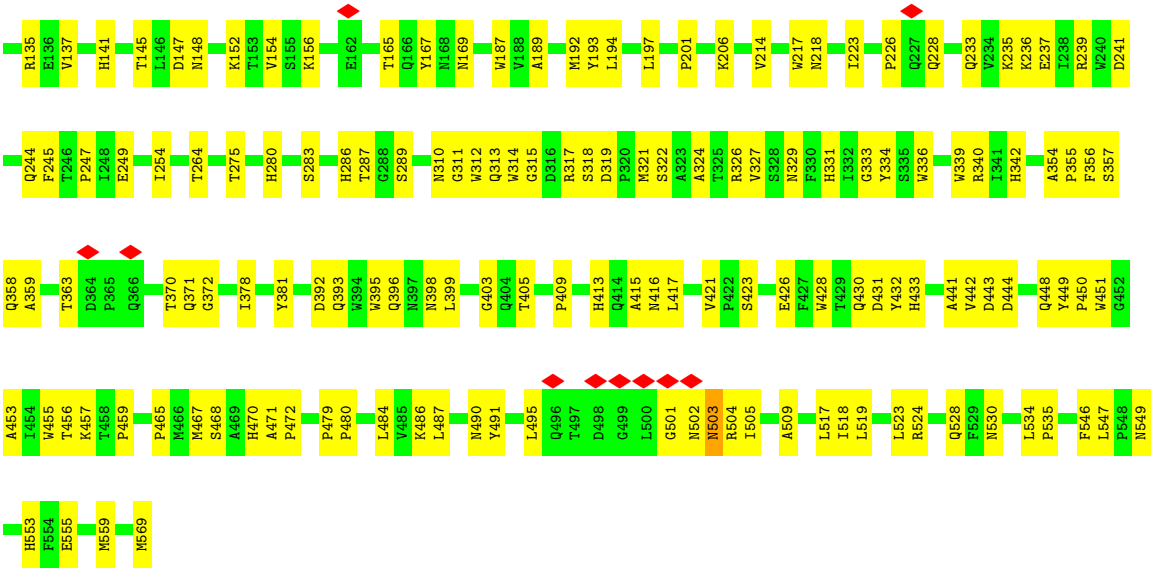
• Molecule 1: VP1

Chain U:



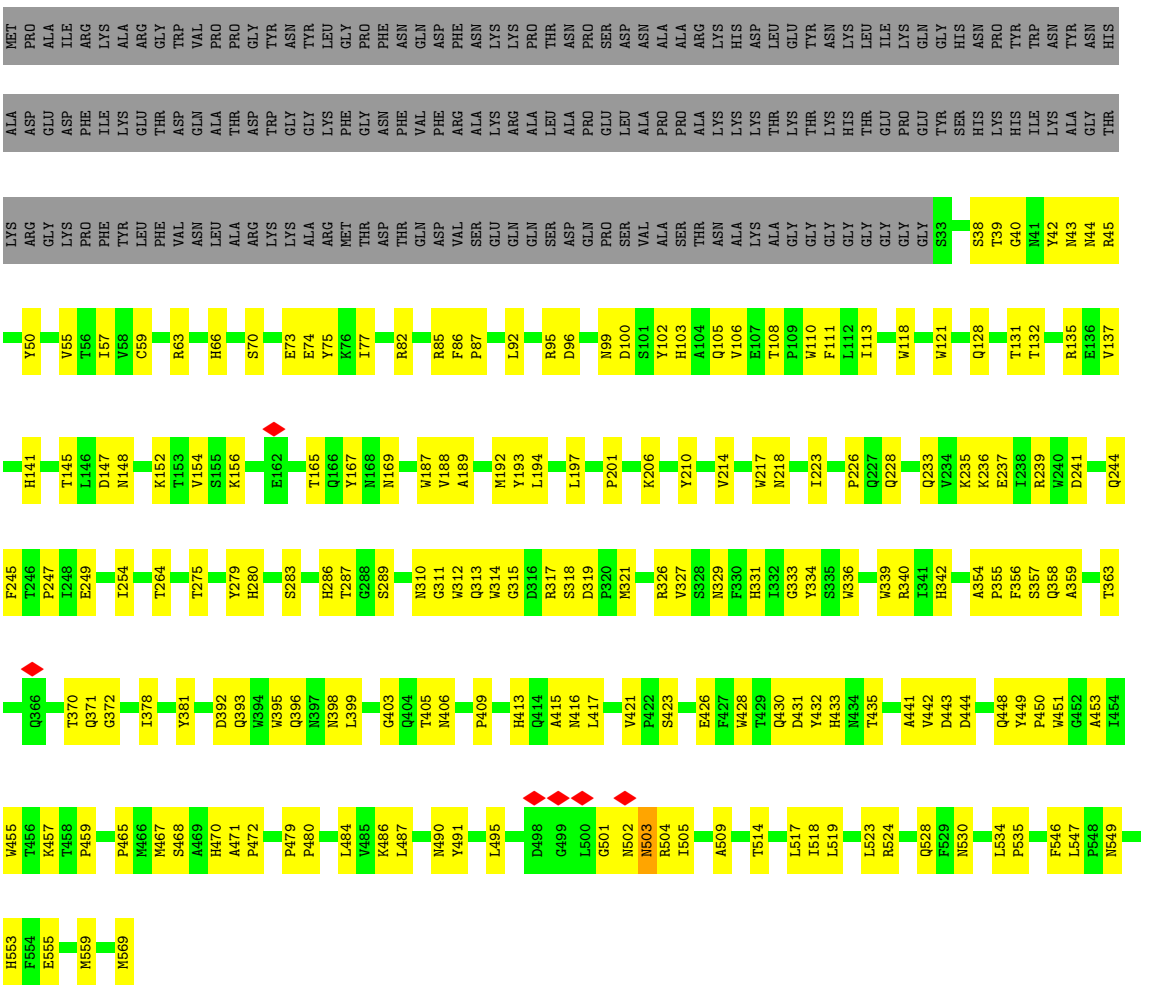
• Molecule 1: VP1

Chain V:



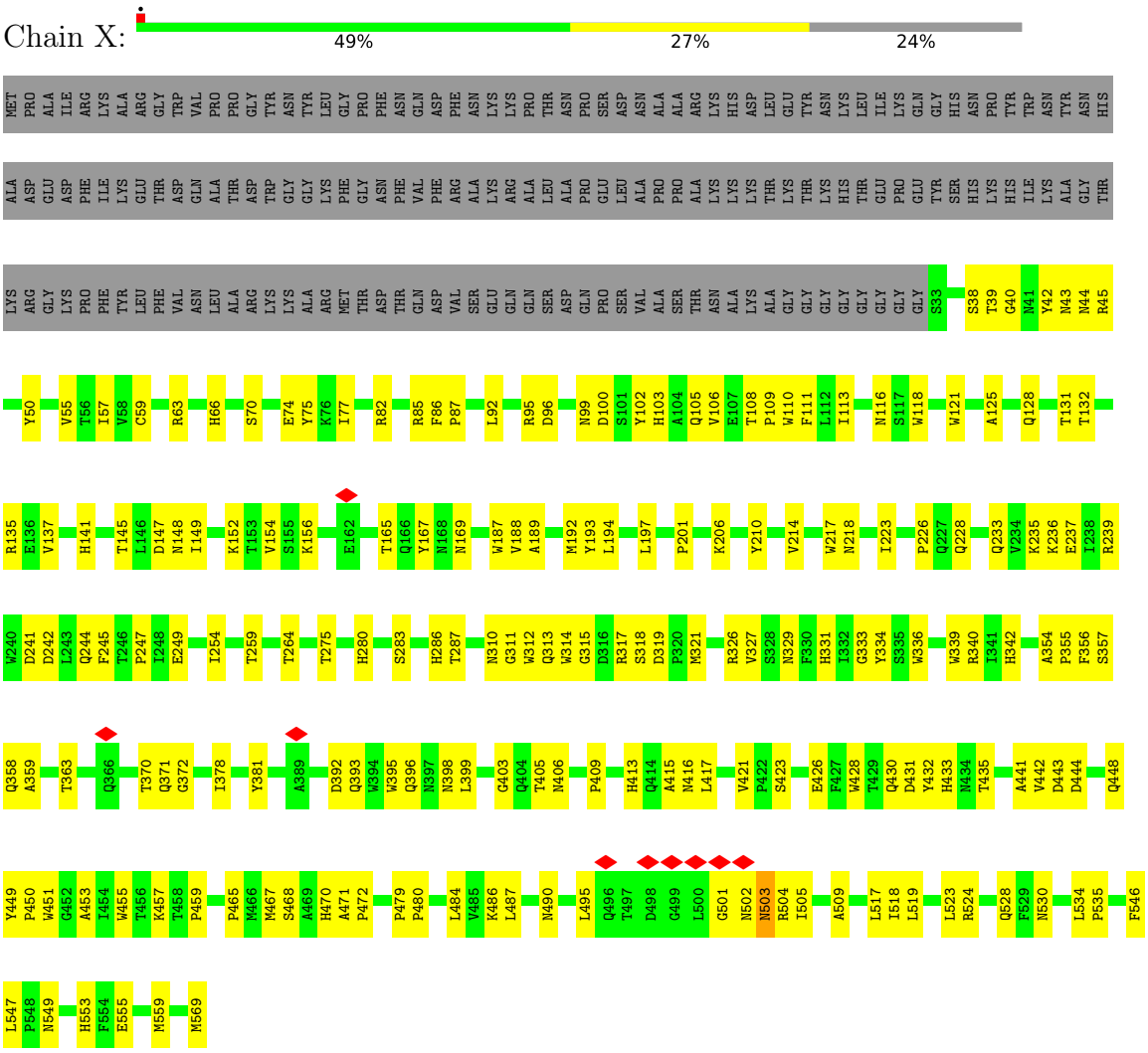
• Molecule 1: VP1

Chain W:



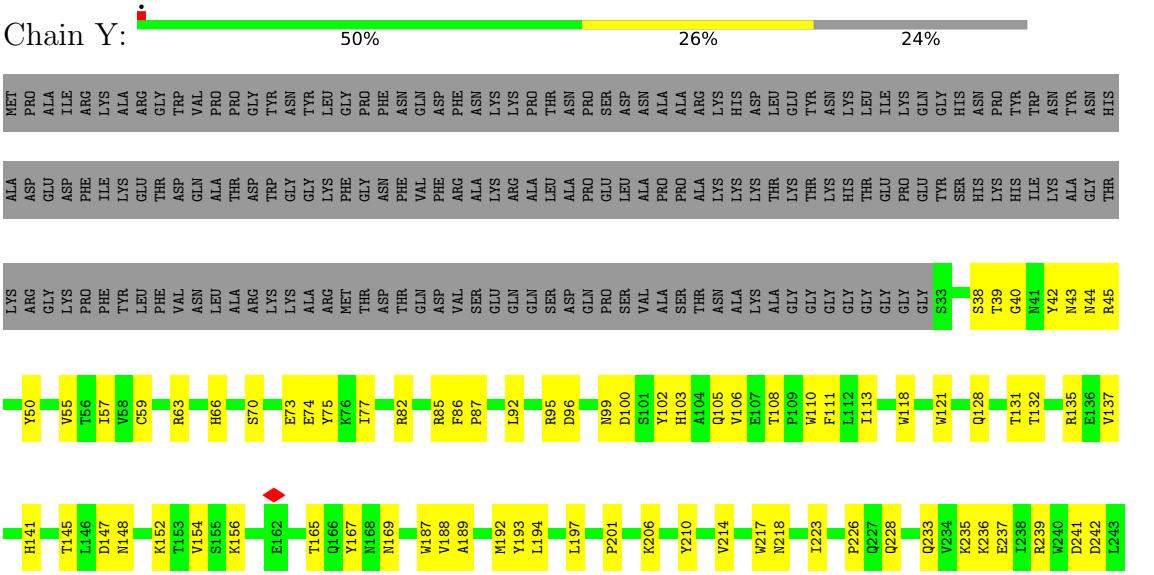
• Molecule 1: VP1

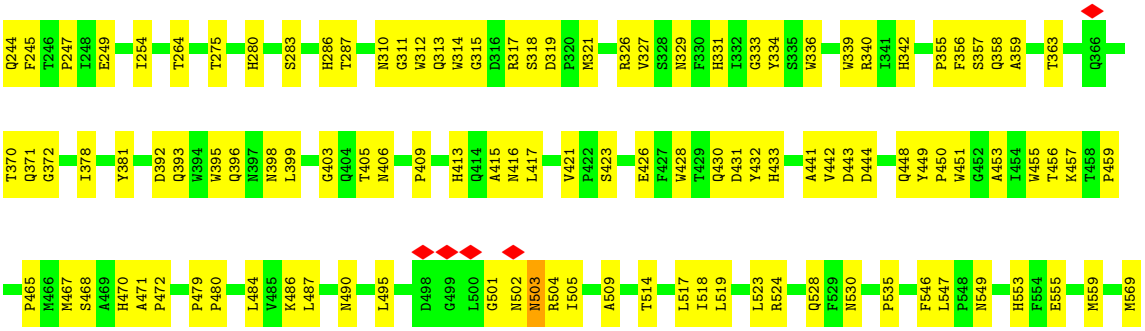
Chain X:



• Molecule 1: VP1

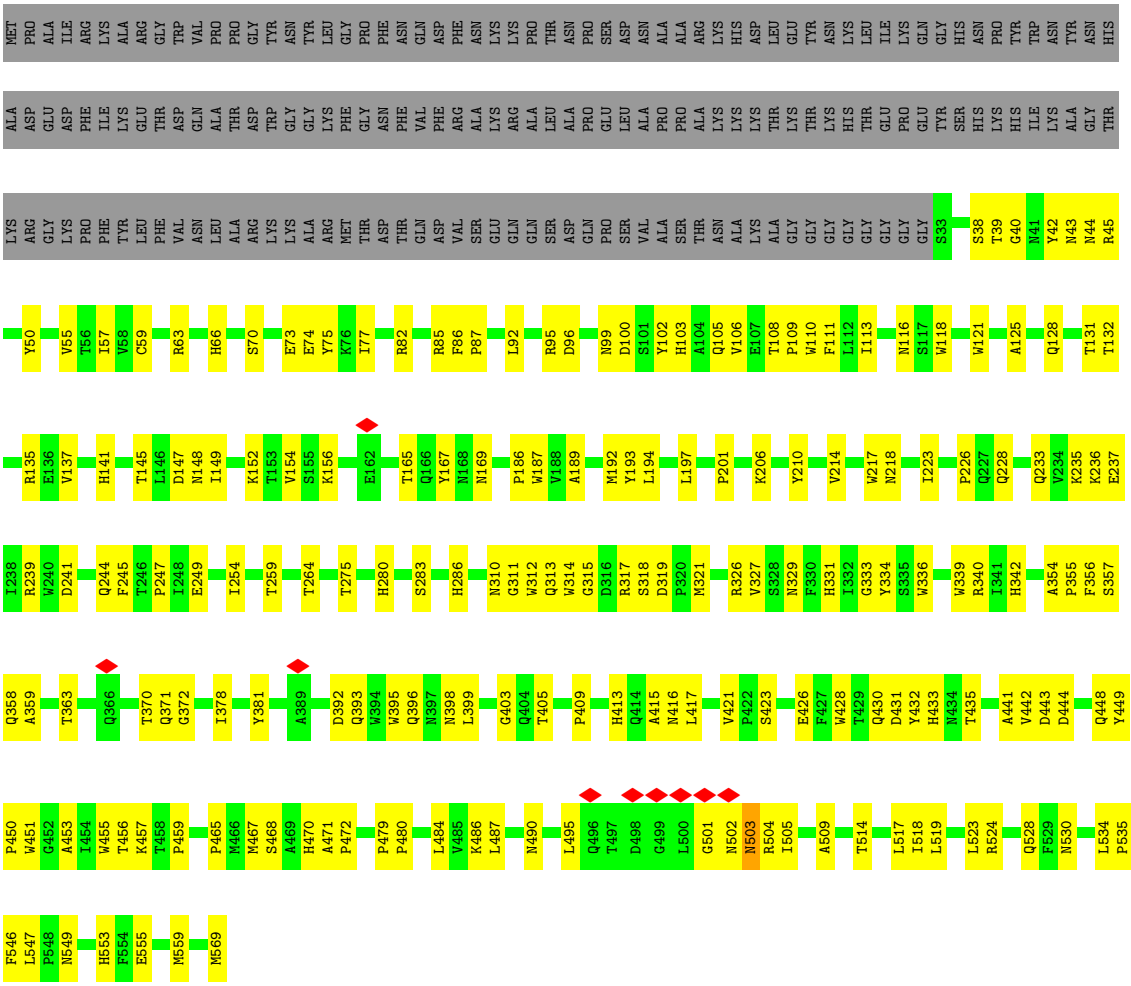
Chain Y:





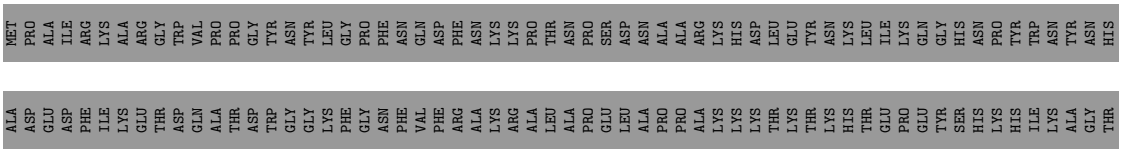
- Molecule 1: VP1

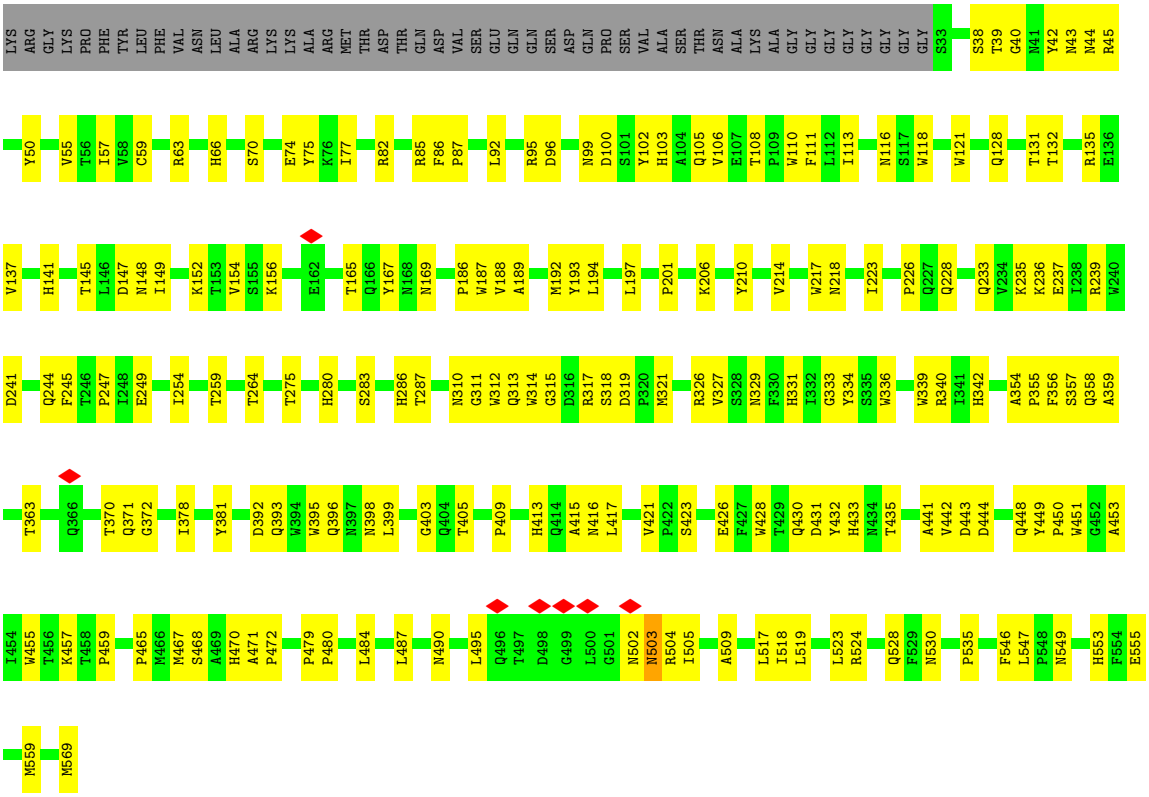
Chain Z:



- Molecule 1: VP1

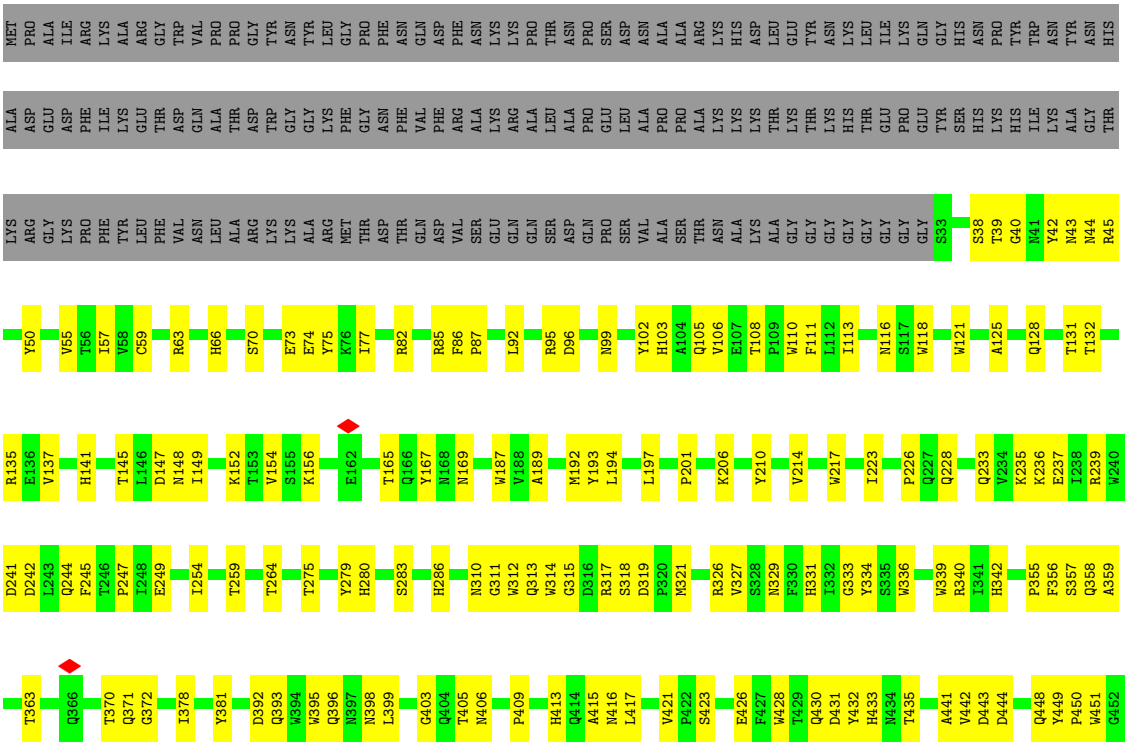
Chain a:

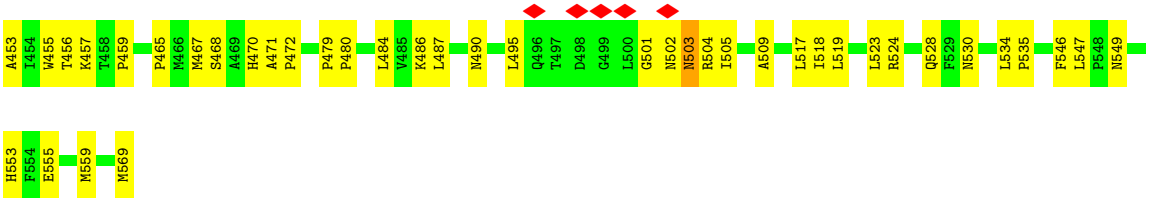




• Molecule 1: VP1

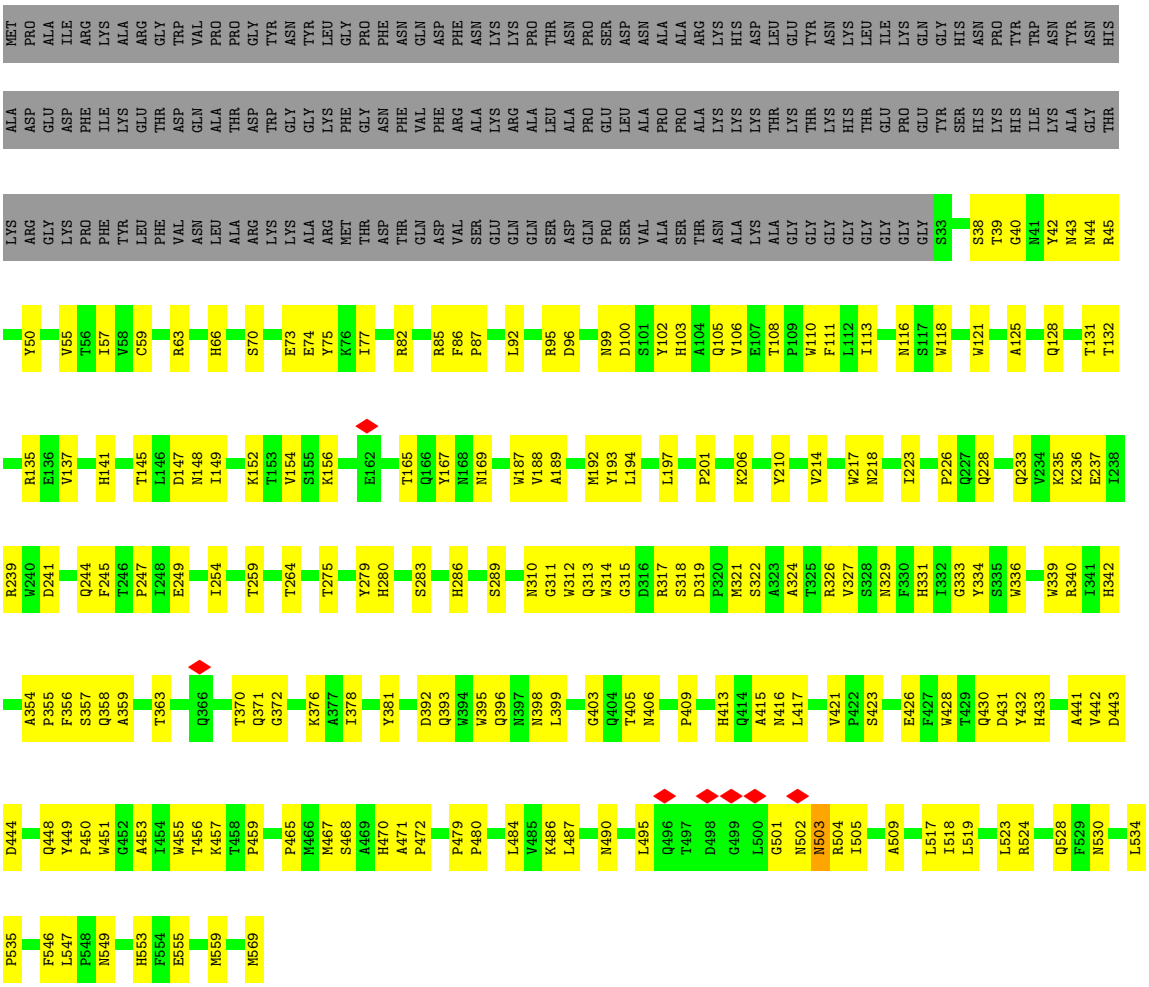
Chain b:





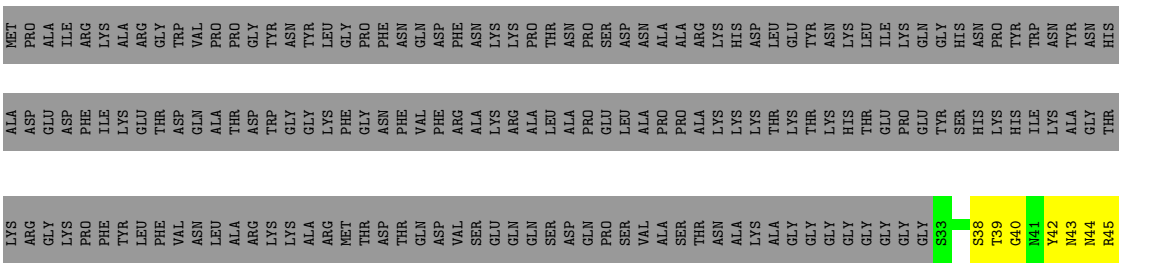
• Molecule 1: VP1

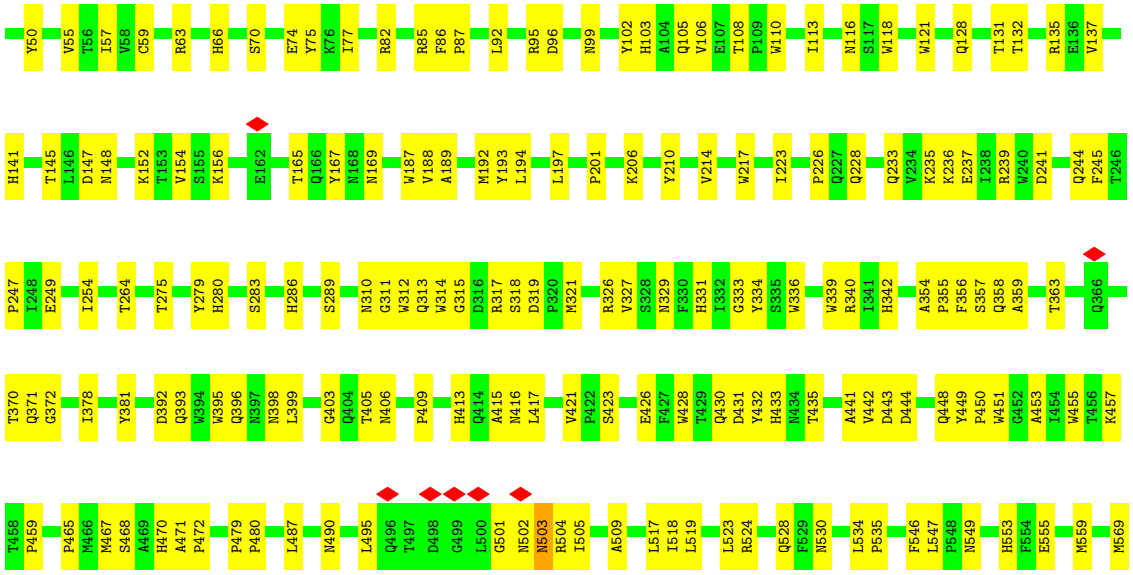
Chain c:



• Molecule 1: VP1

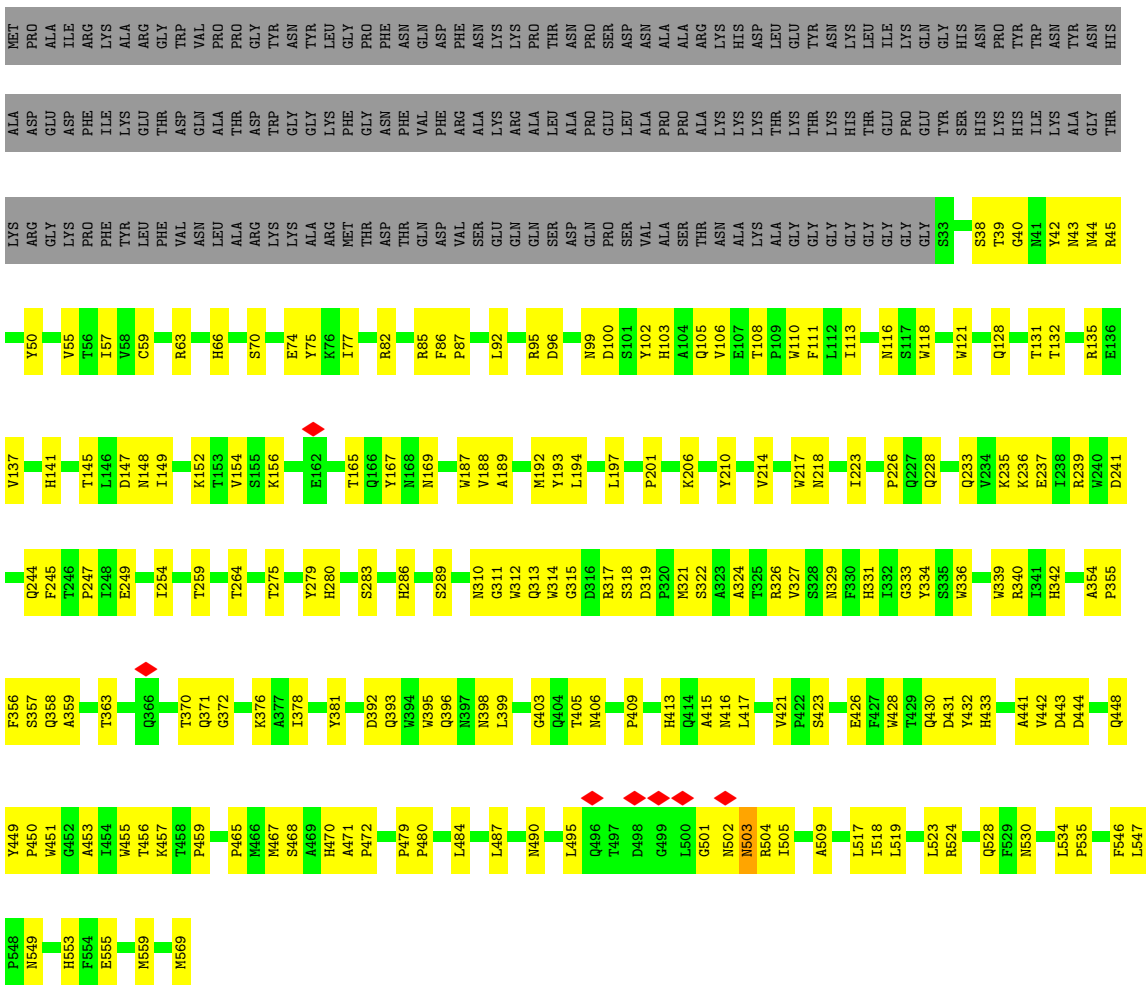
Chain d:





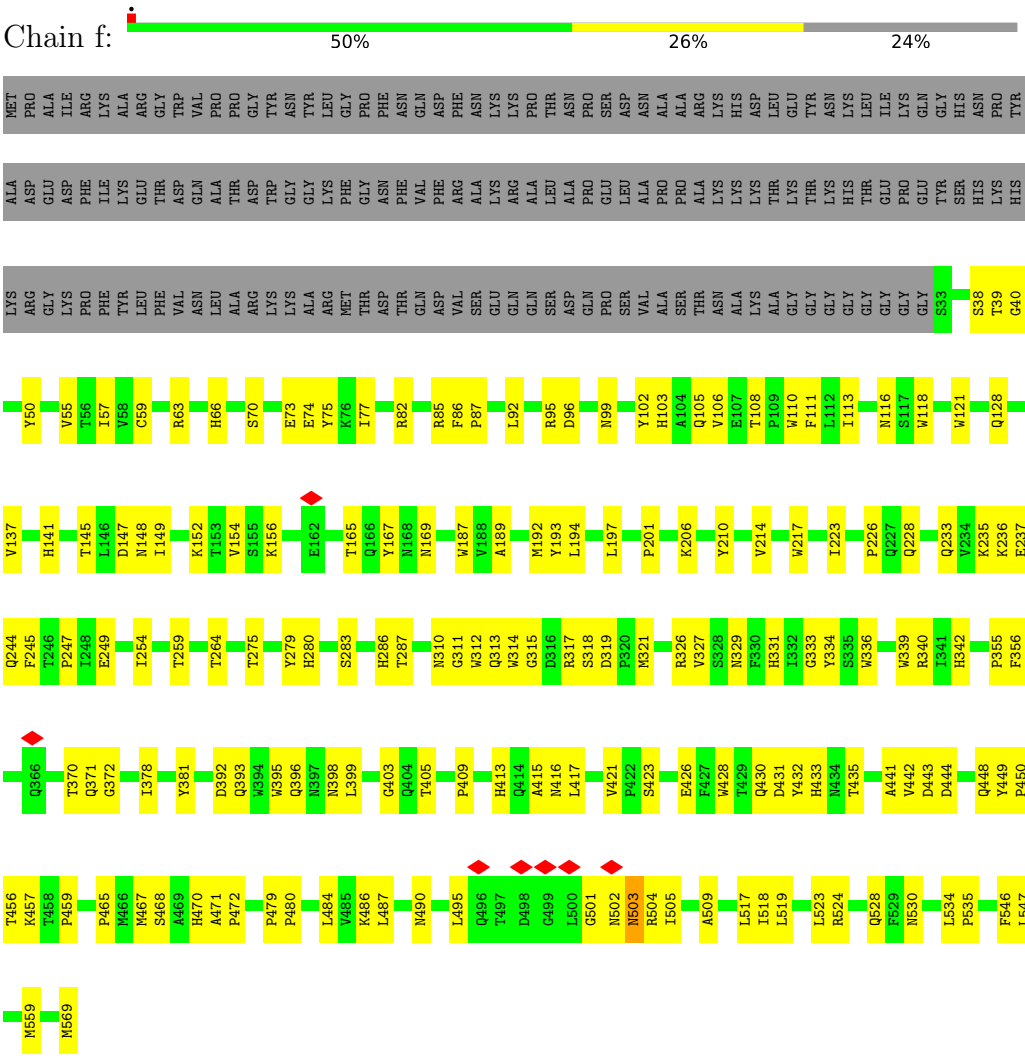
- Molecule 1: VP1

Chain e:



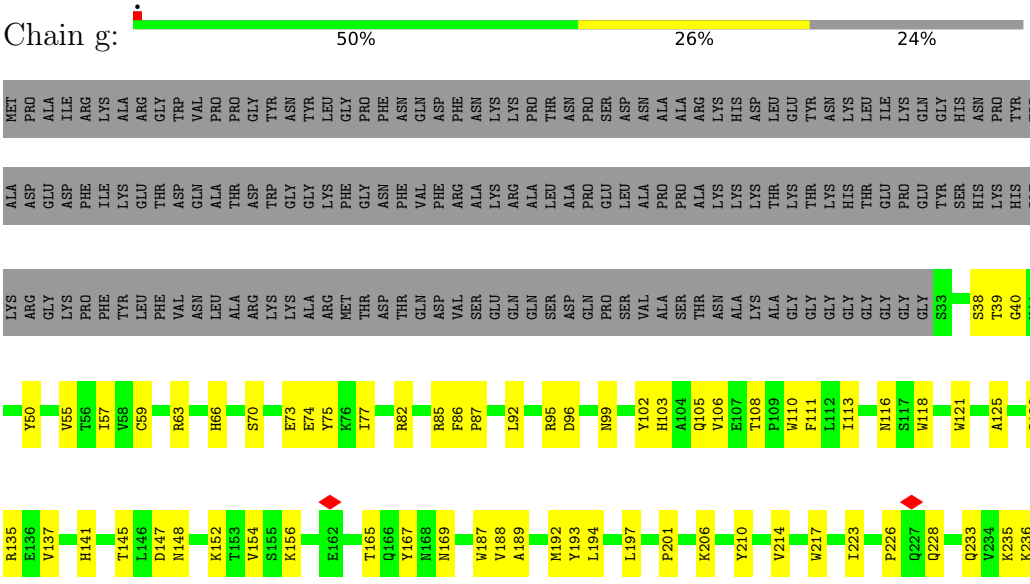
- Molecule 1: VP1

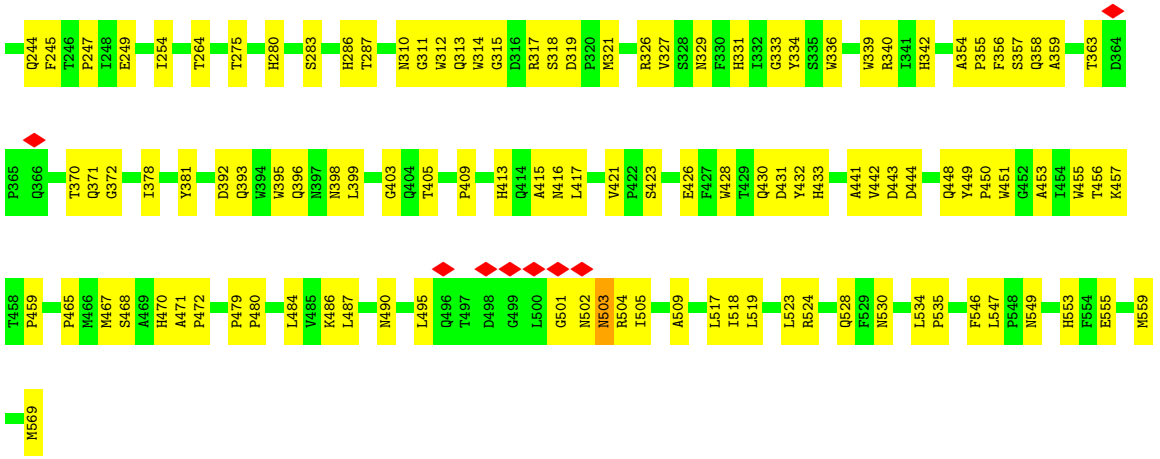
Chain f:



• Molecule 1: VP1

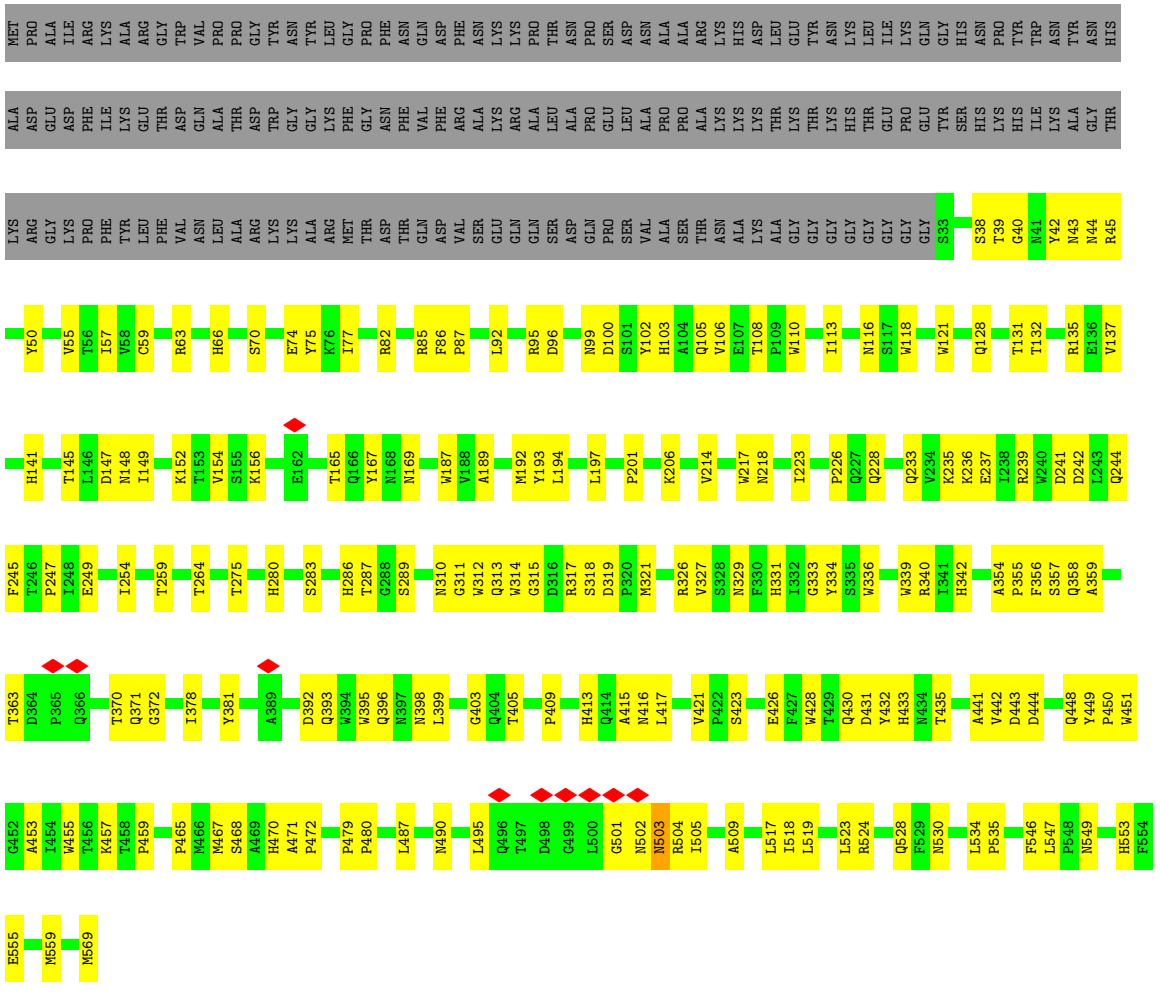
Chain g:





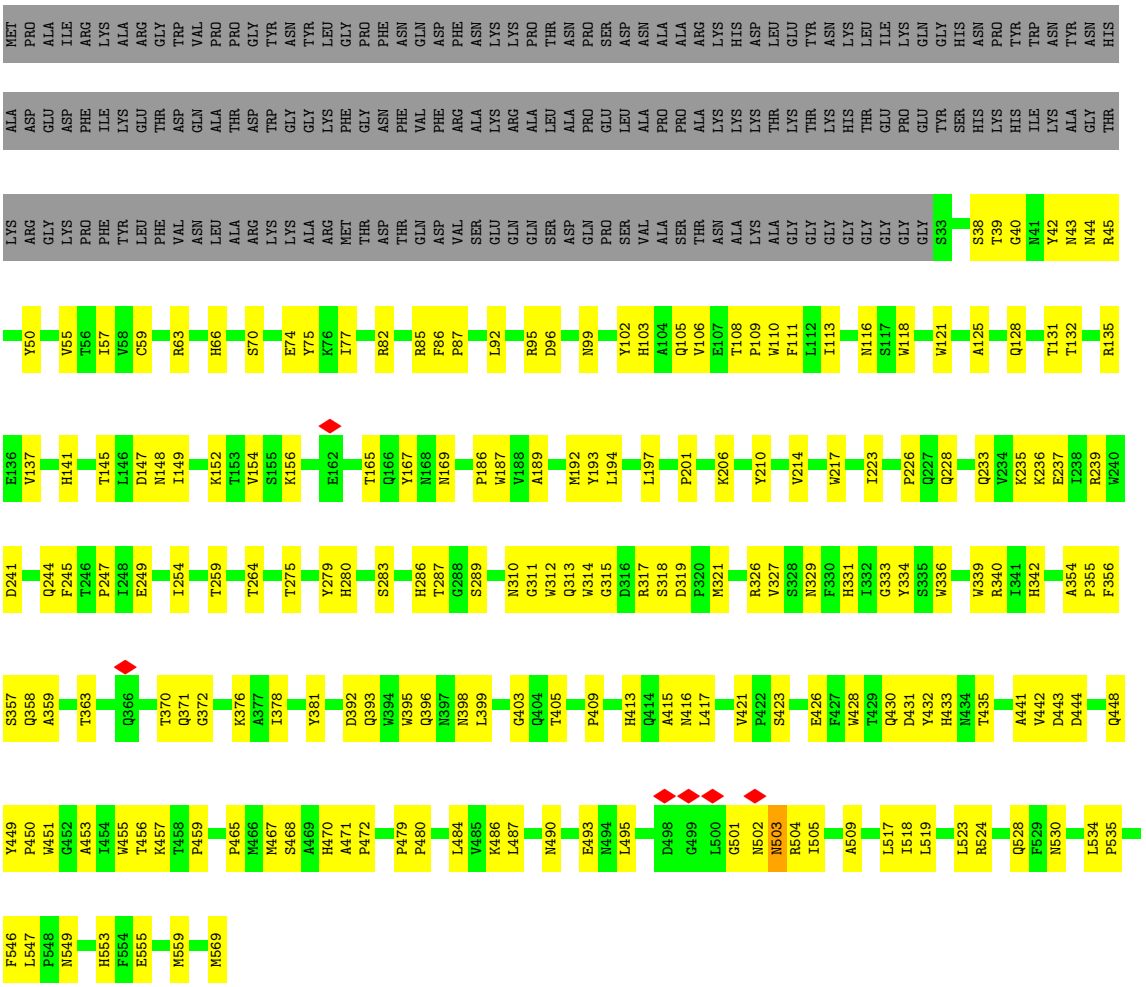
• Molecule 1: VP1

Chain h:



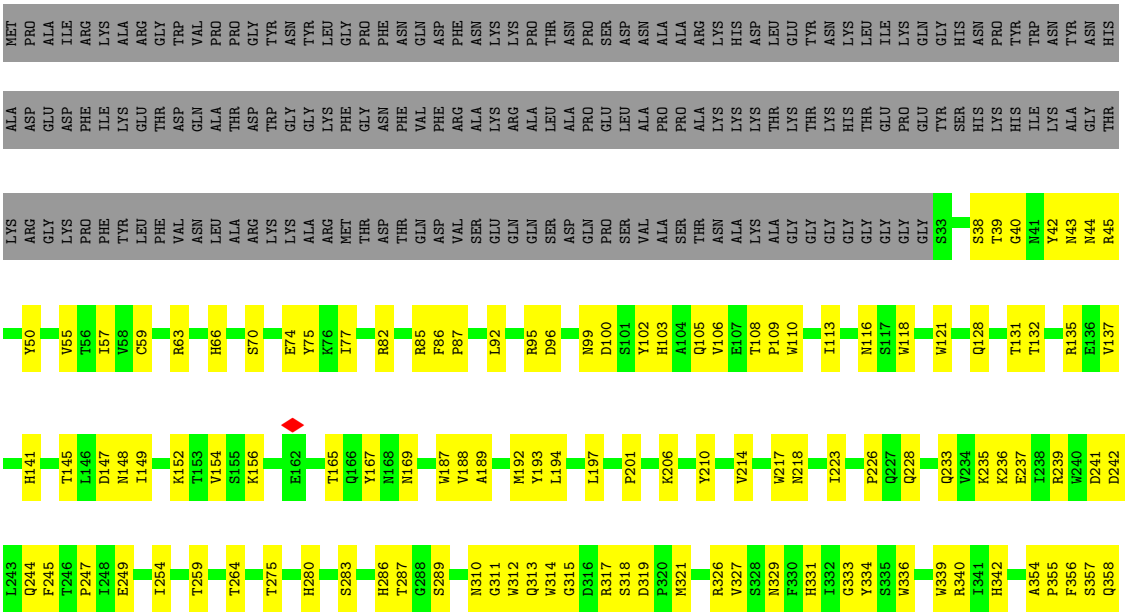
• Molecule 1: VP1

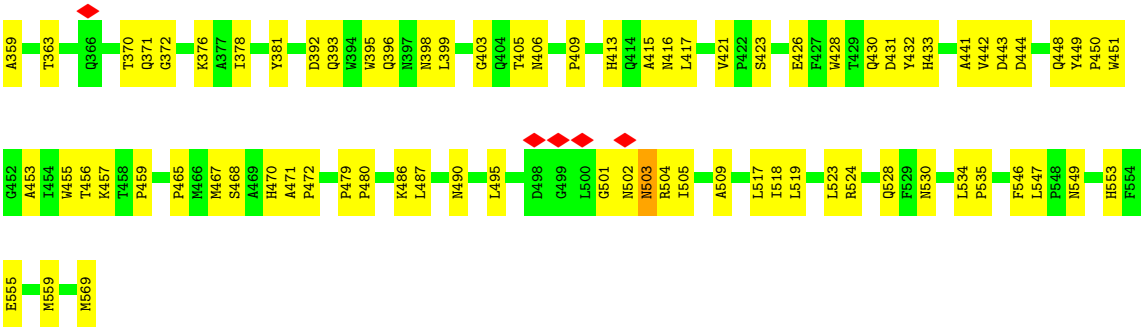
Chain i:



• Molecule 1: VP1

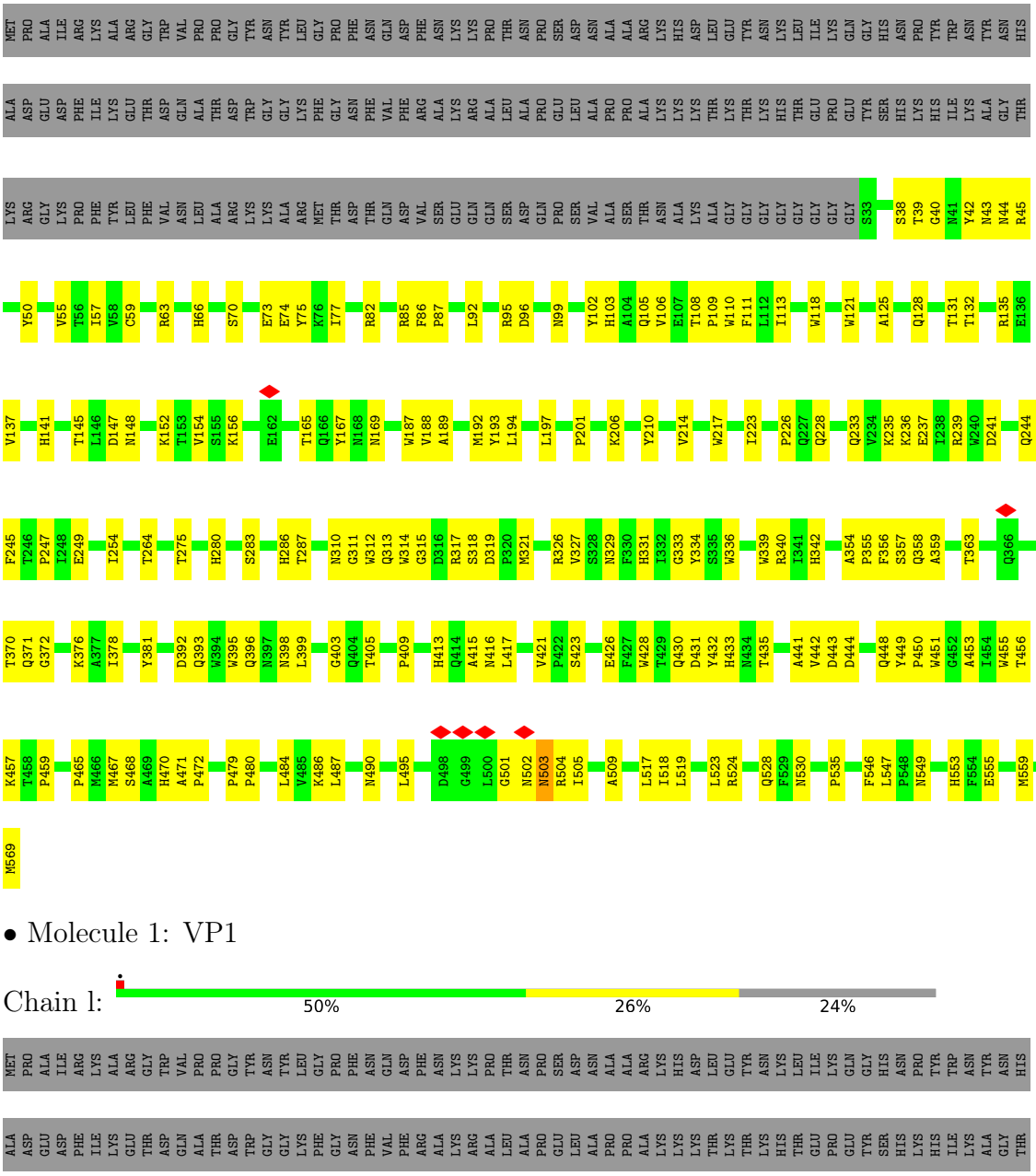
Chain j:





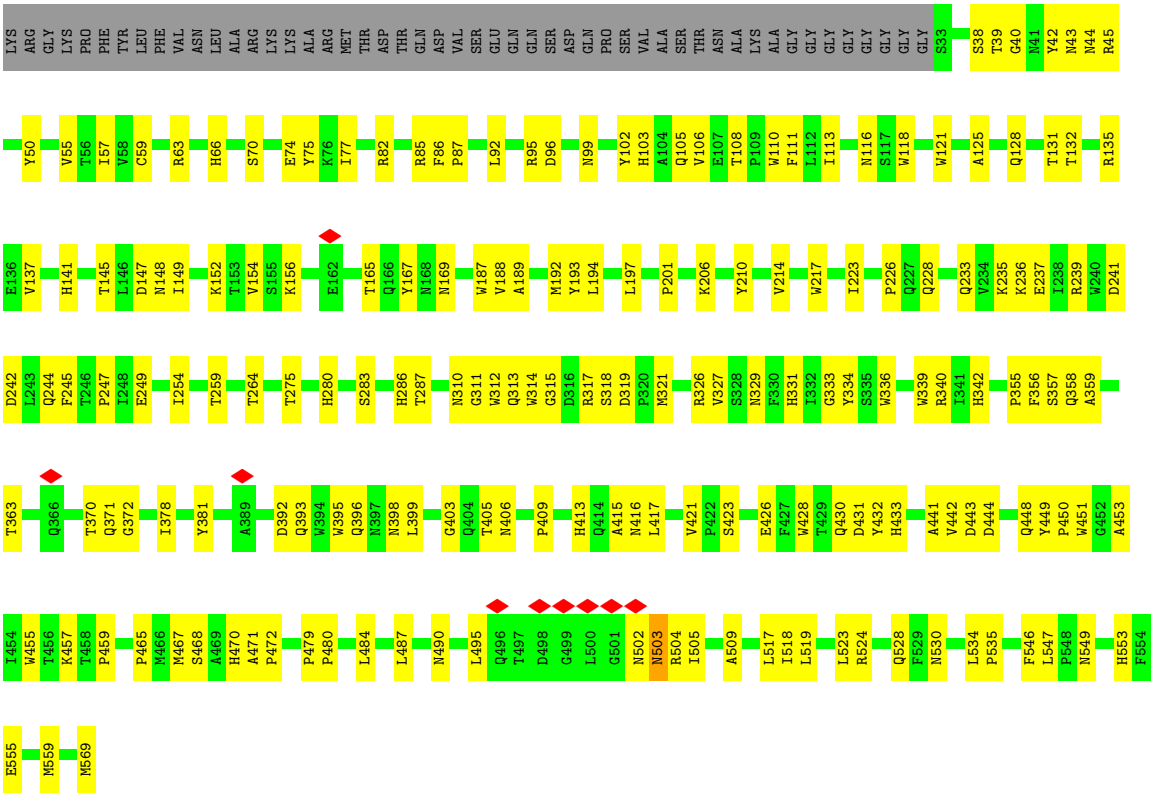
• Molecule 1: VP1

Chain k:



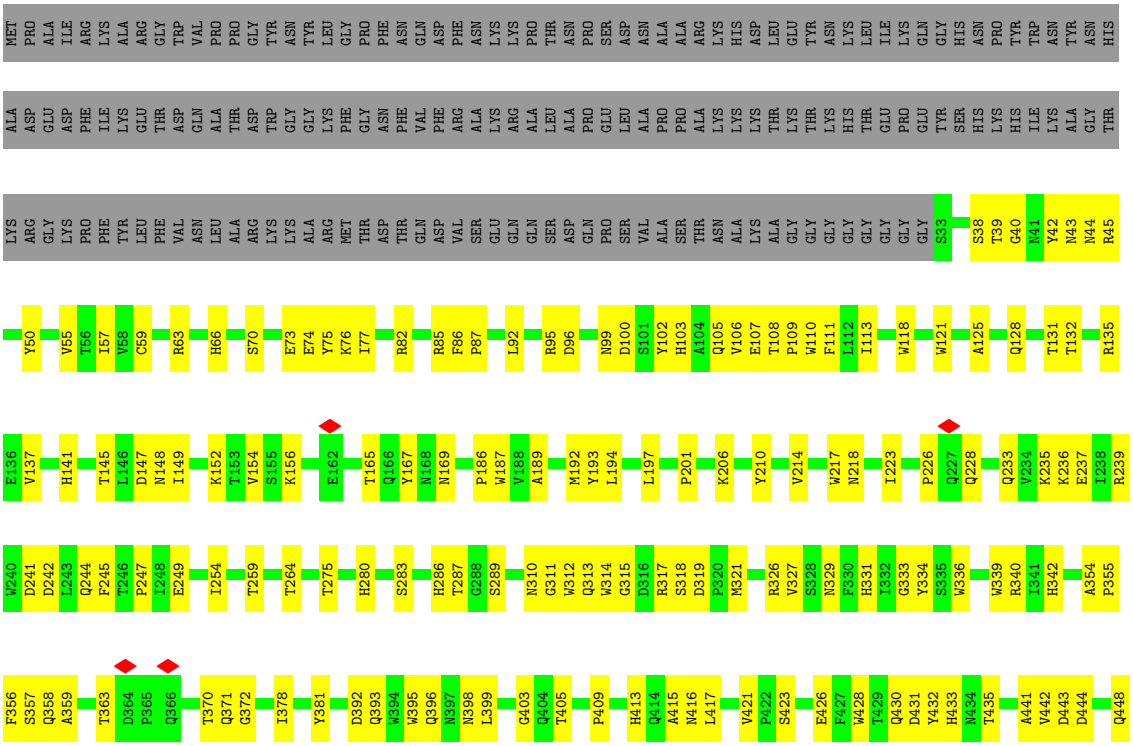
• Molecule 1: VP1

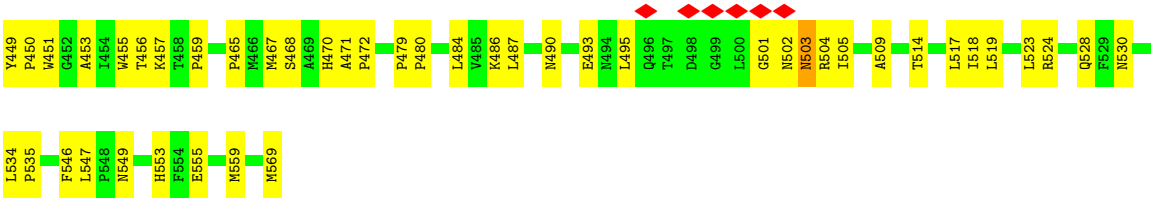
Chain l:



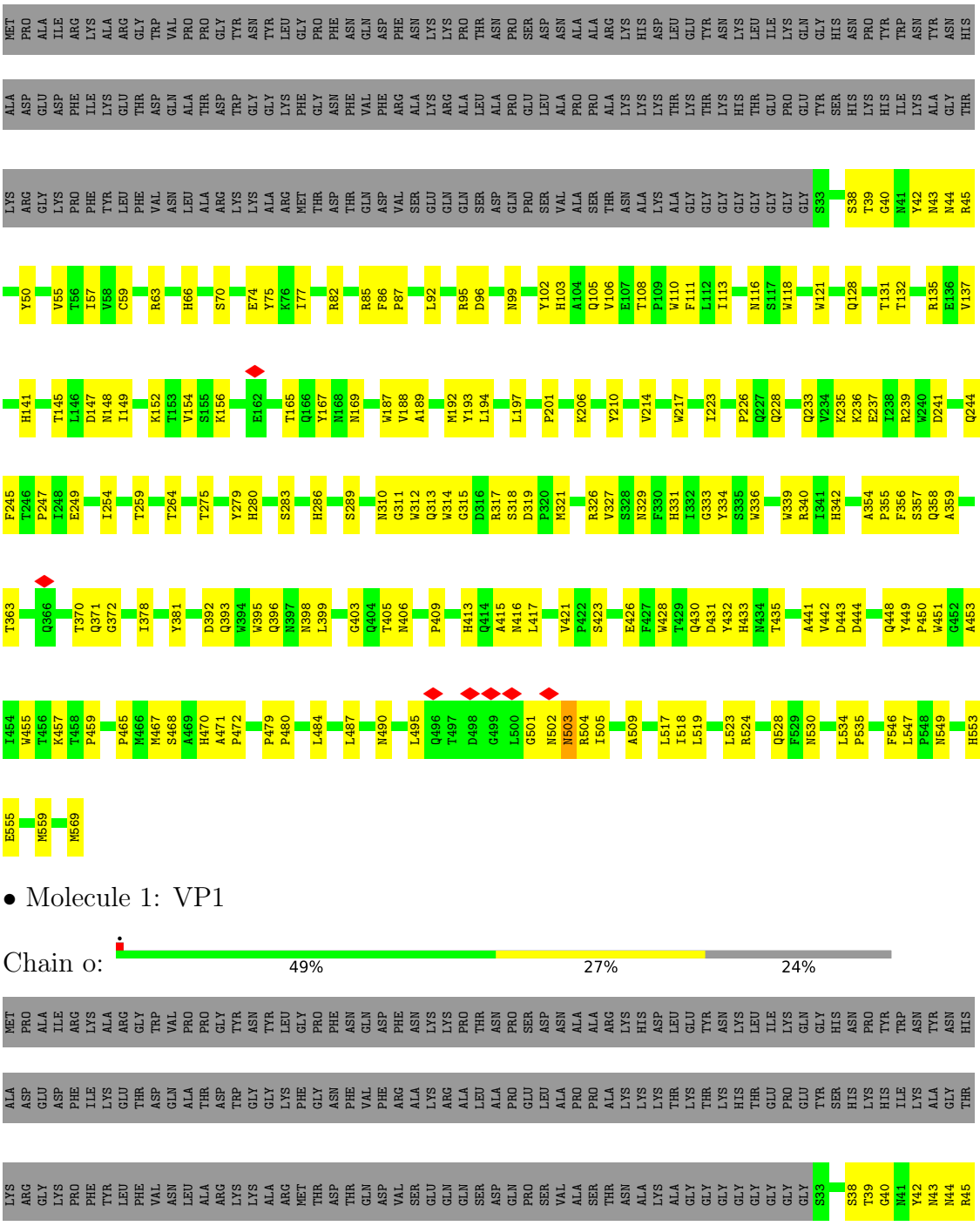
• Molecule 1: VP1

Chain m:

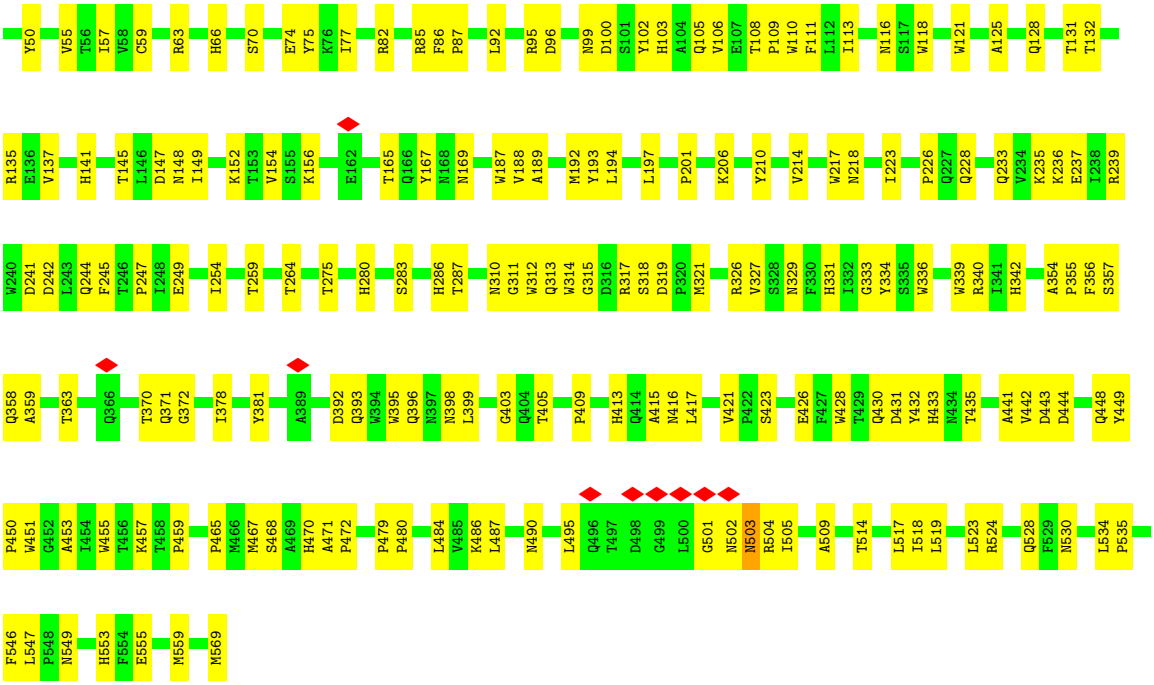




• Molecule 1: VP1

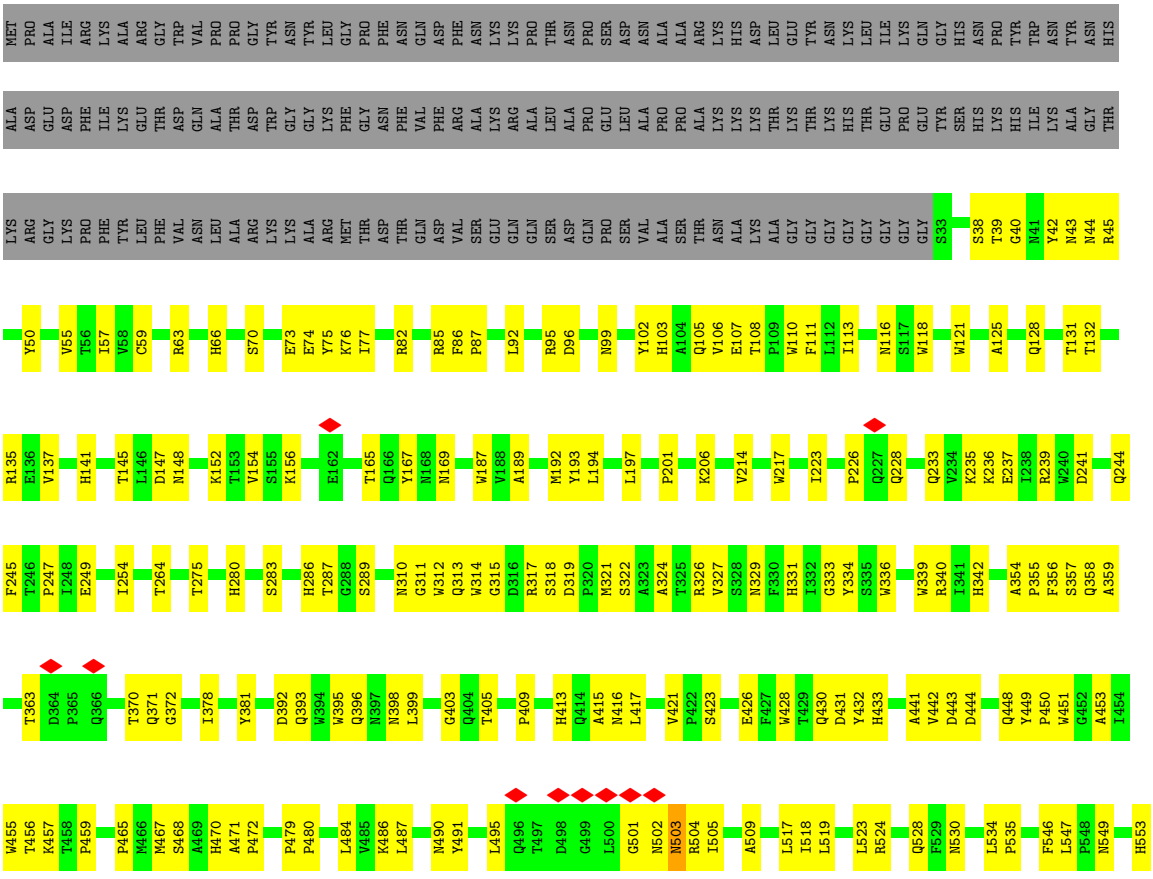


• Molecule 1: VP1



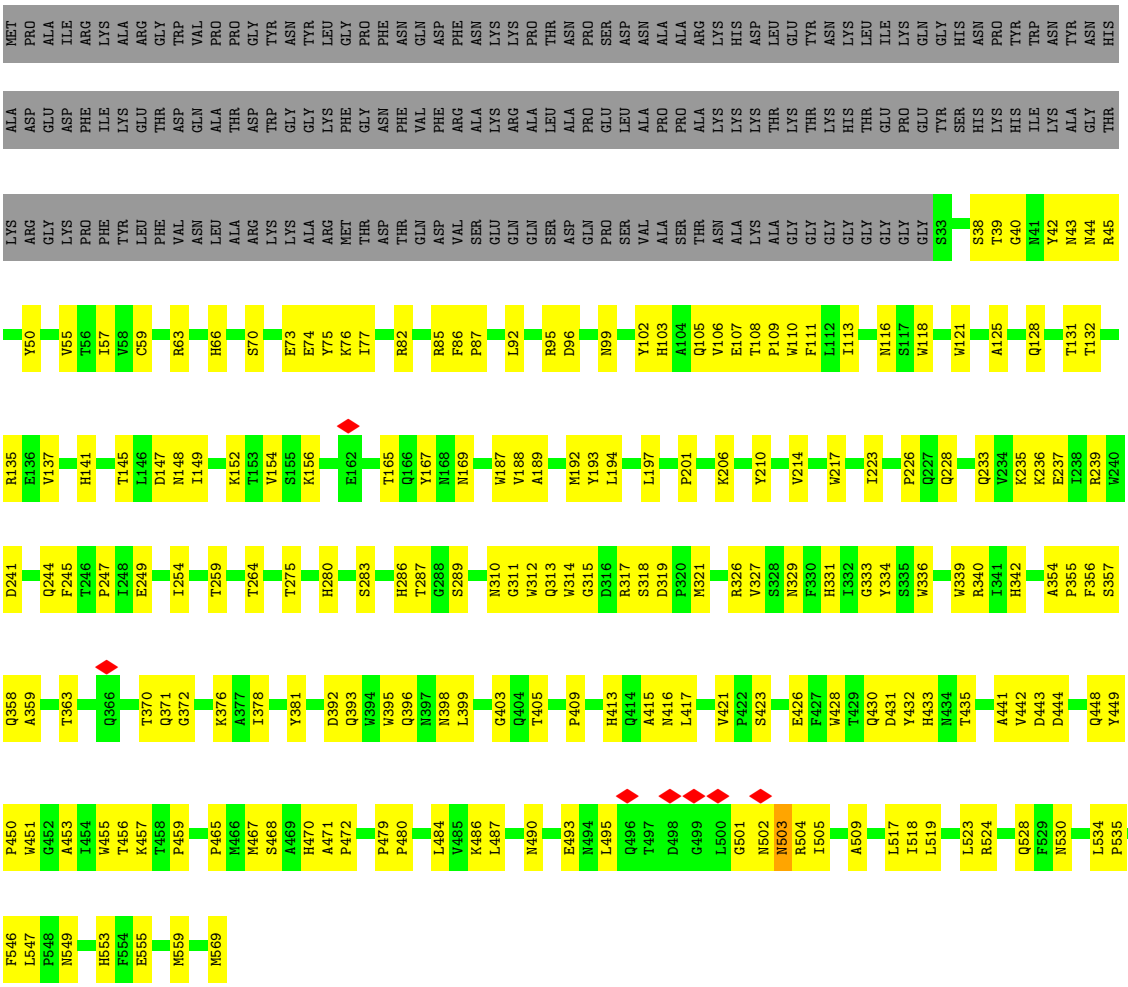
• Molecule 1: VP1

Chain p:



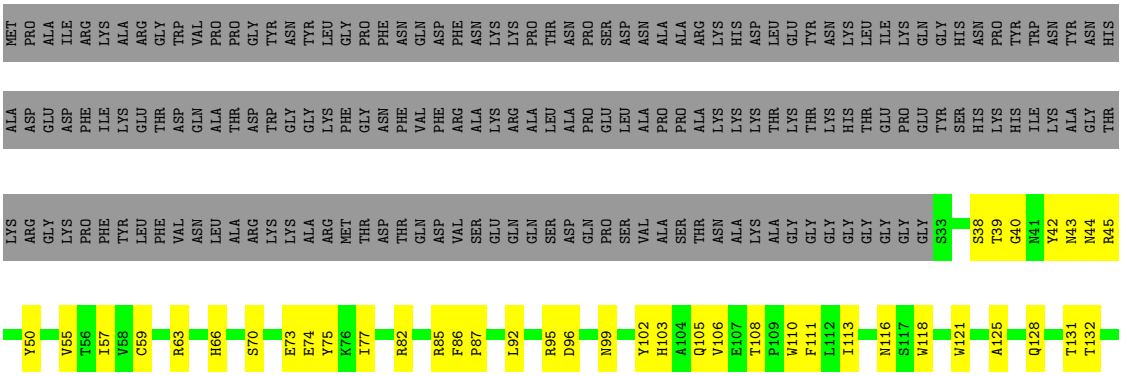
• Molecule 1: VP1

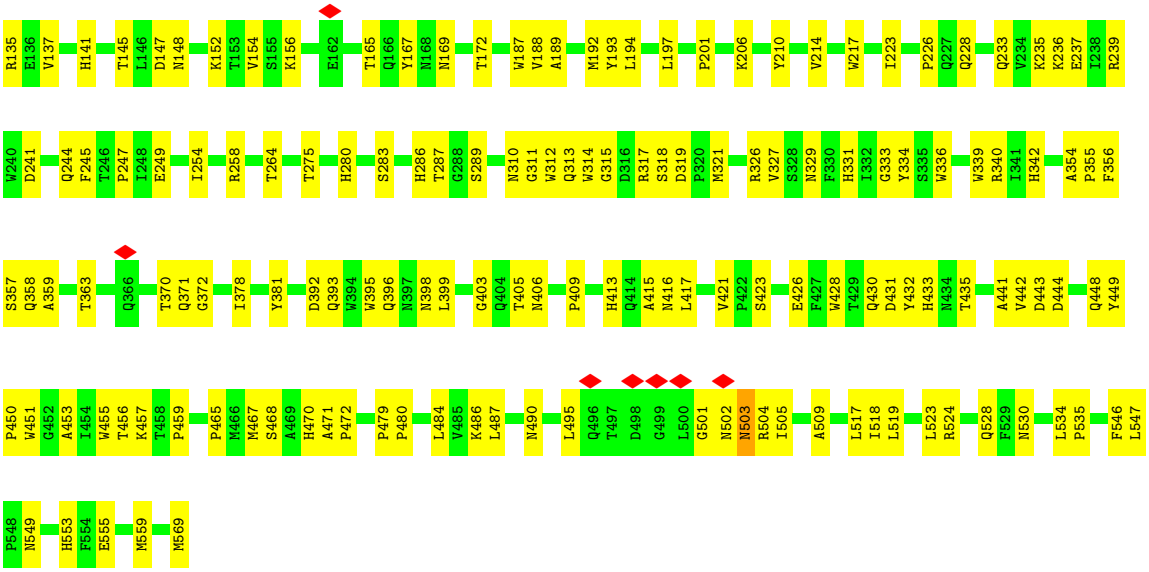
Chain q:



• Molecule 1: VP1

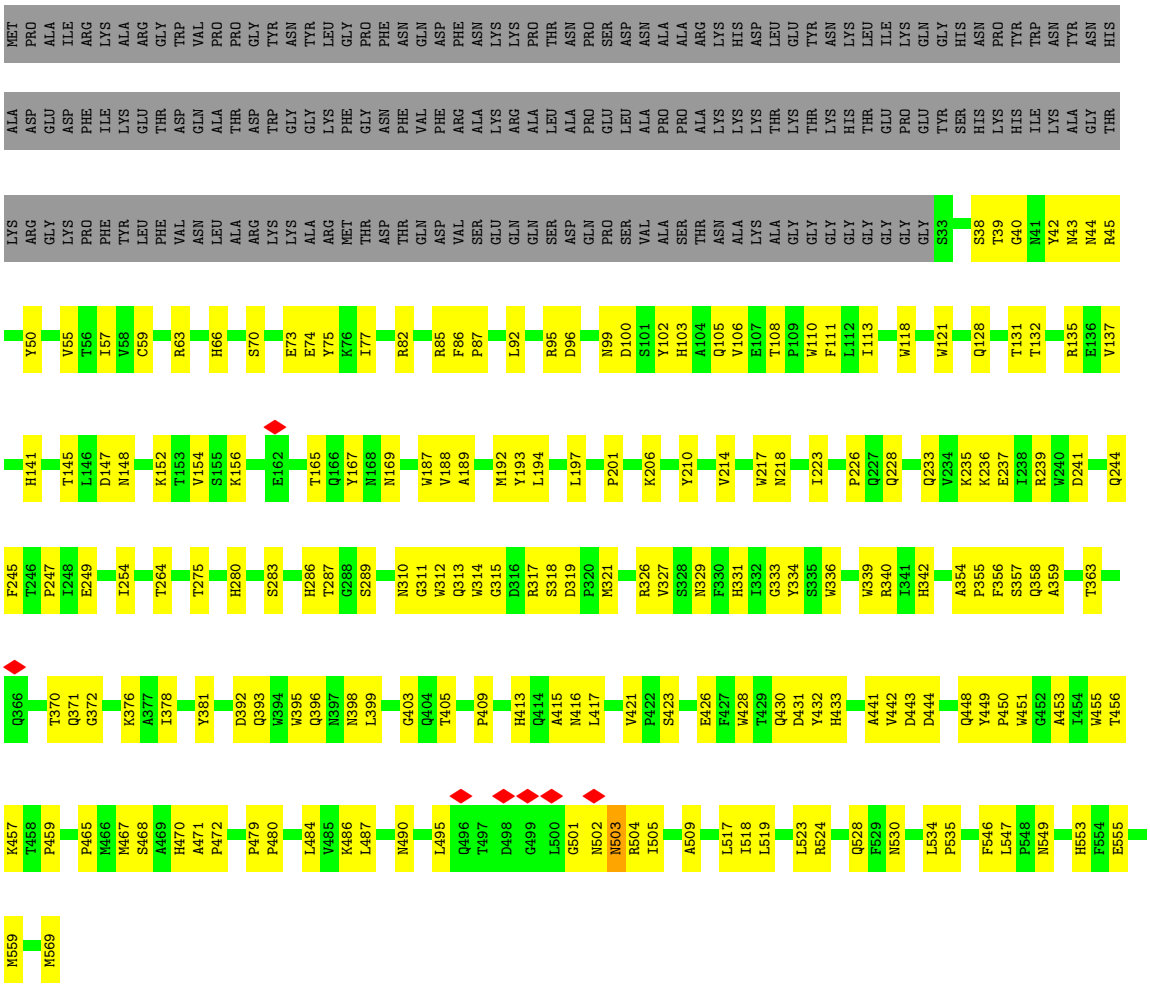
Chain r:





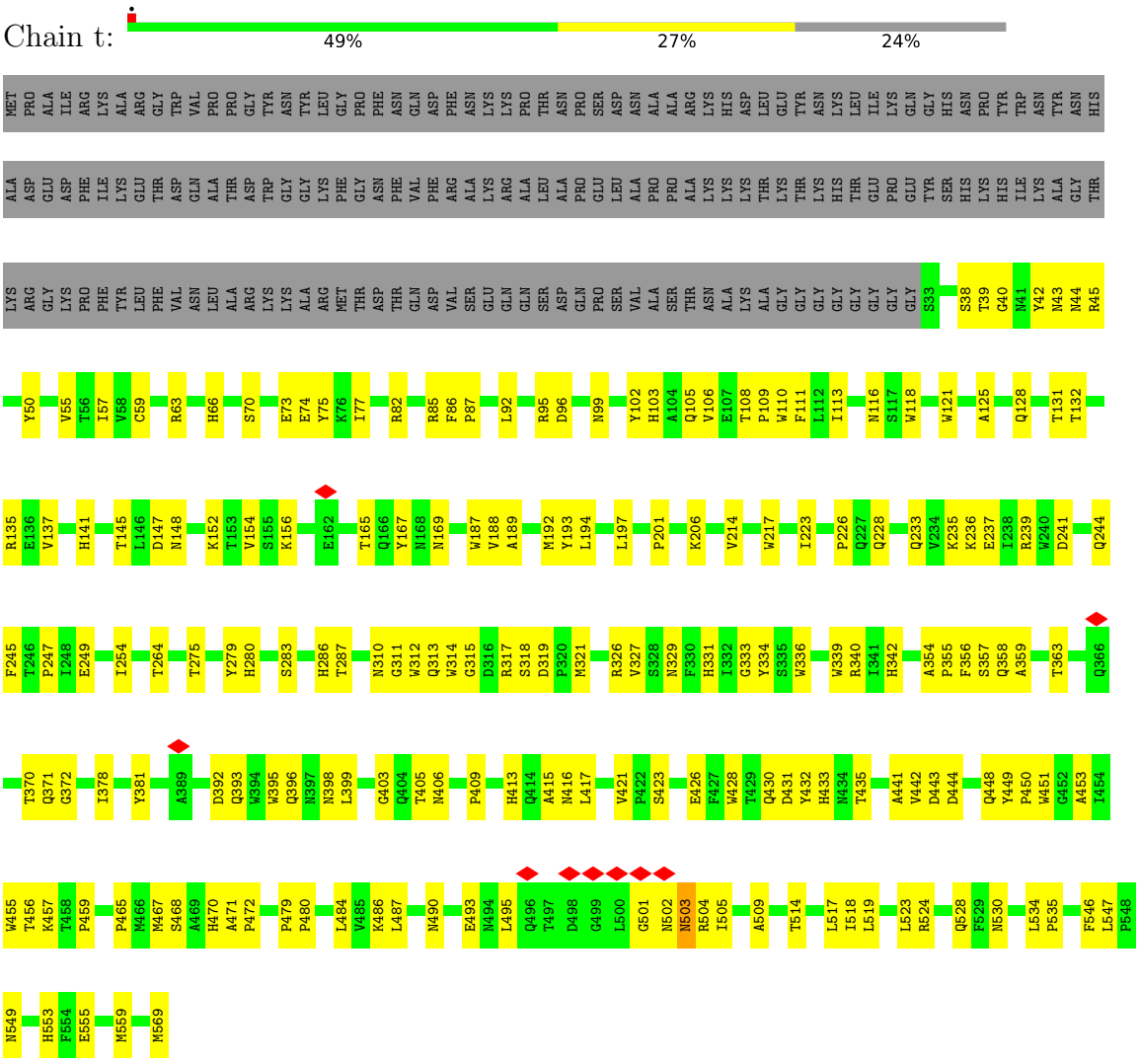
• Molecule 1: VP1

Chain s:



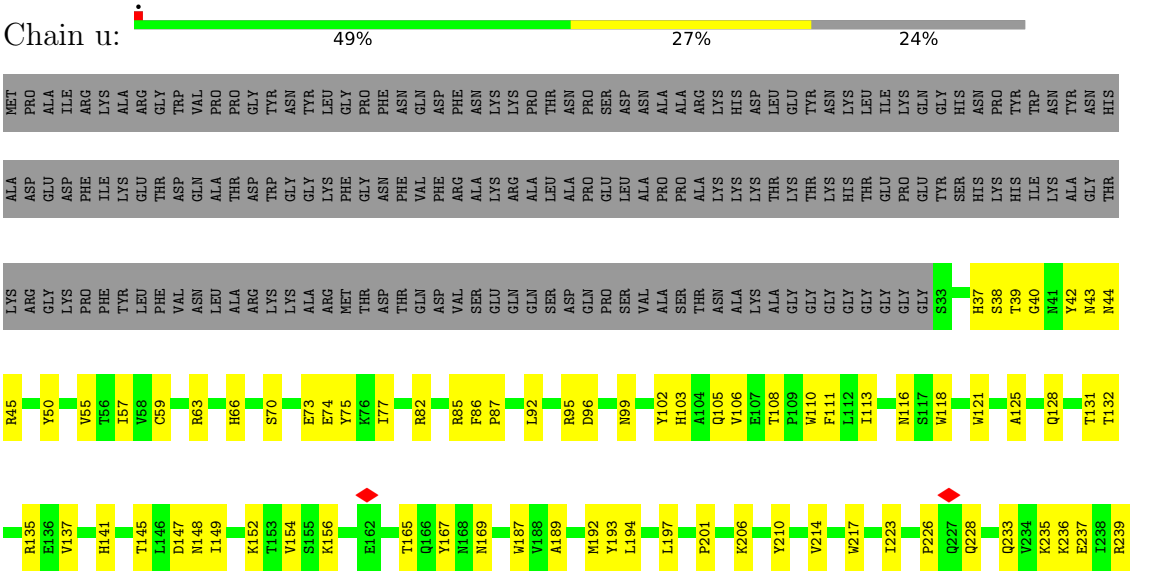
• Molecule 1: VP1

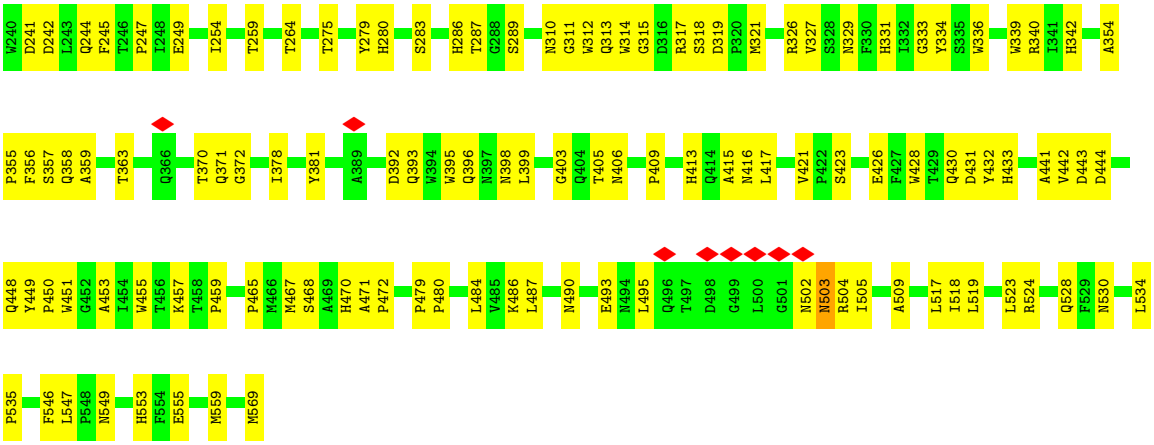
Chain t:



• Molecule 1: VP1

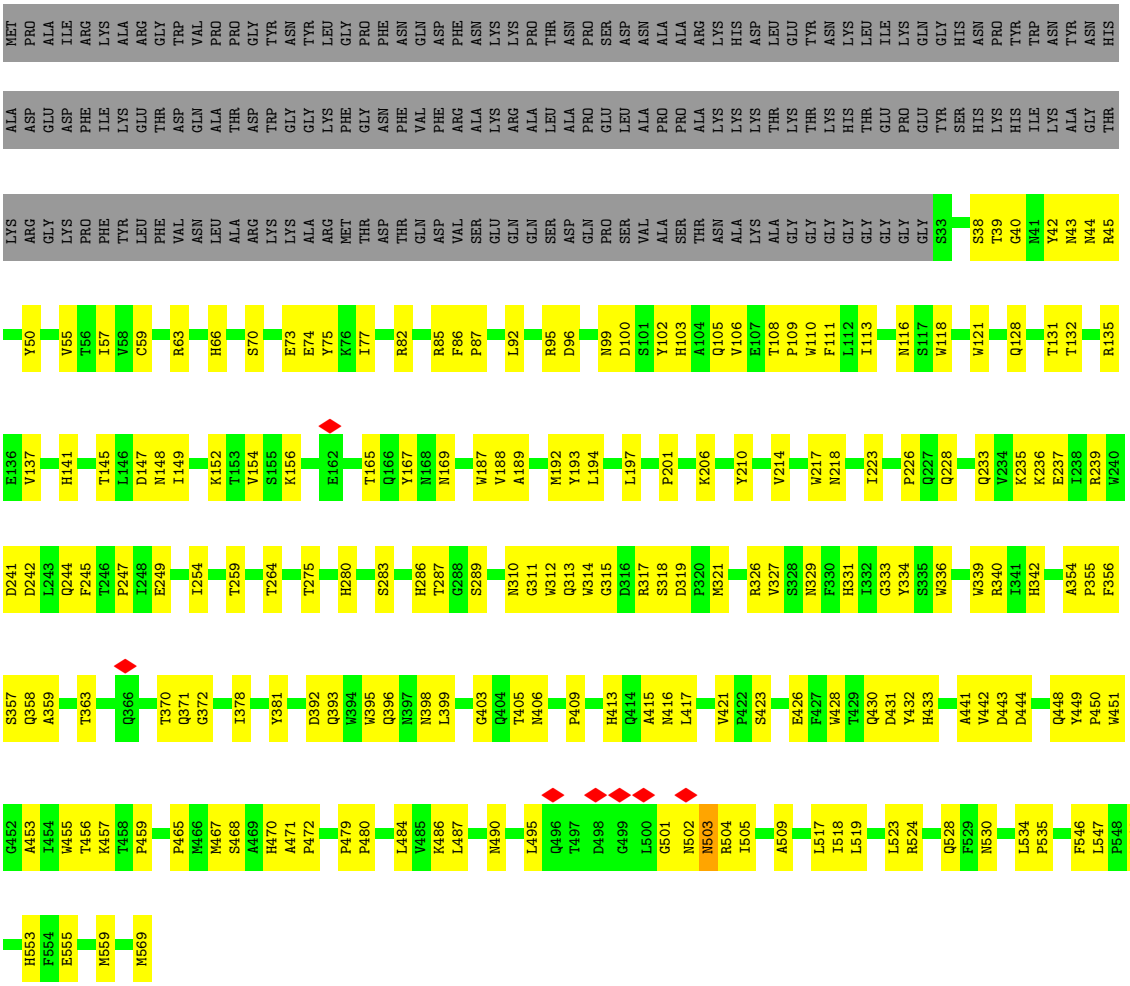
Chain u:

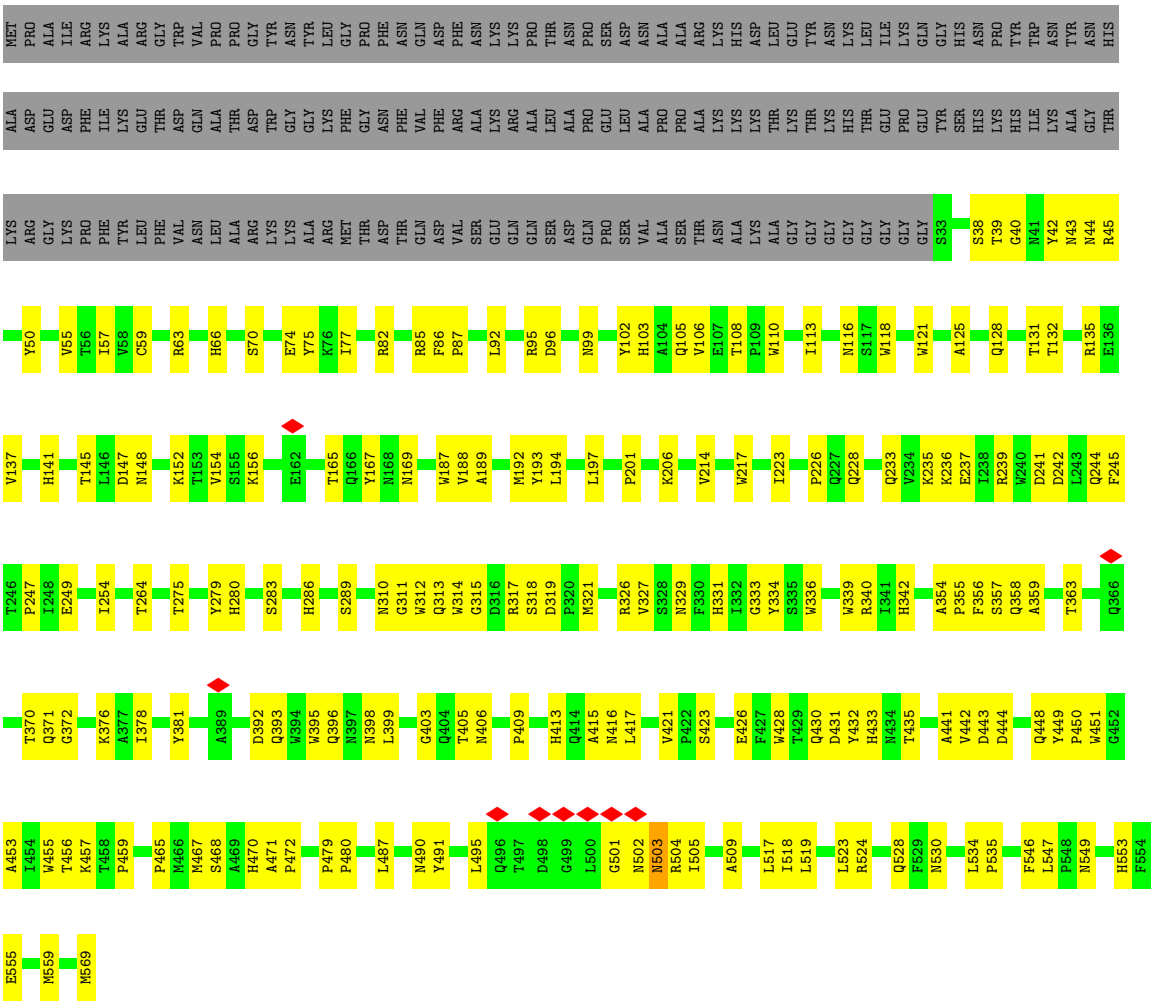




• Molecule 1: VP1

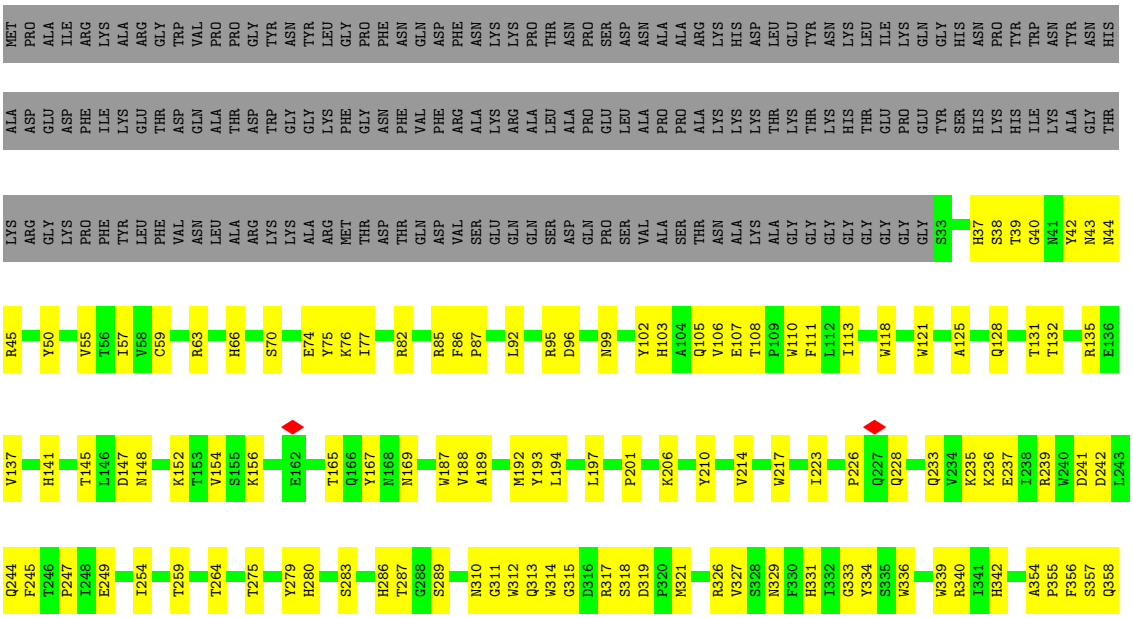
Chain v:

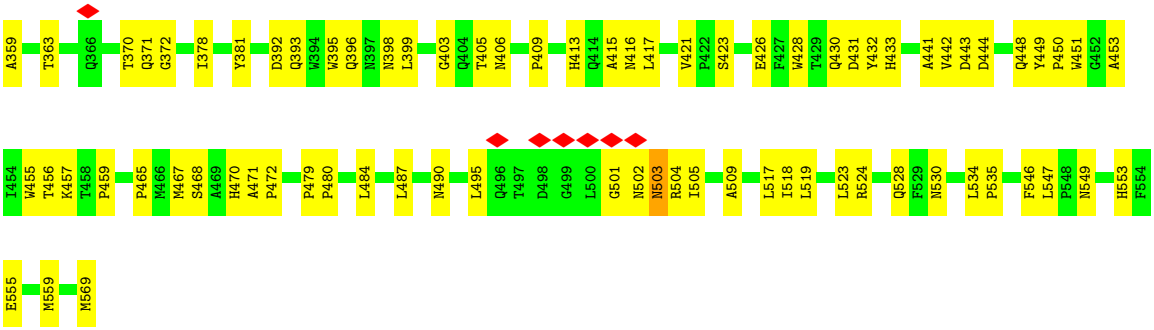




• Molecule 1: VP1

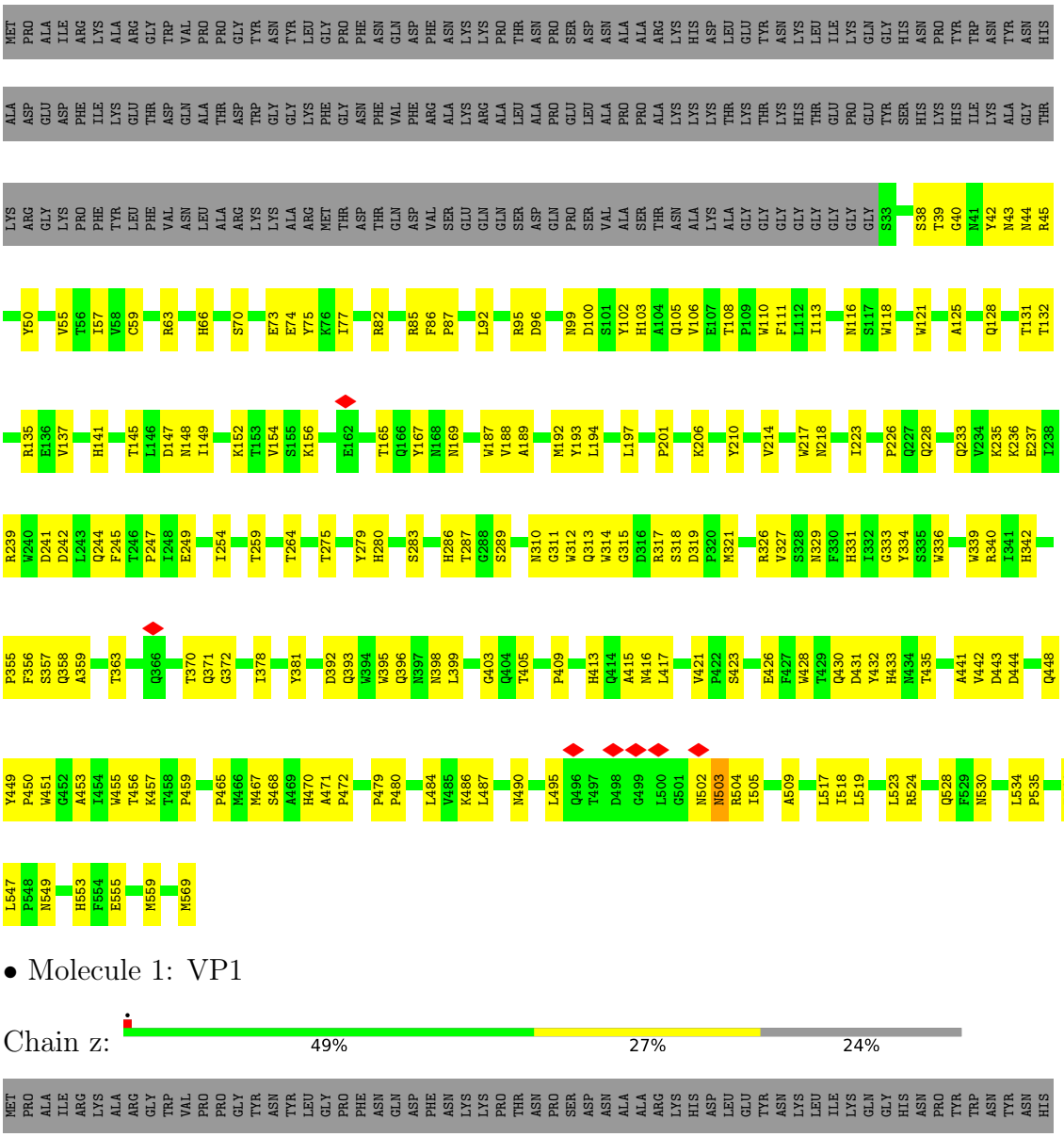
Chain x:





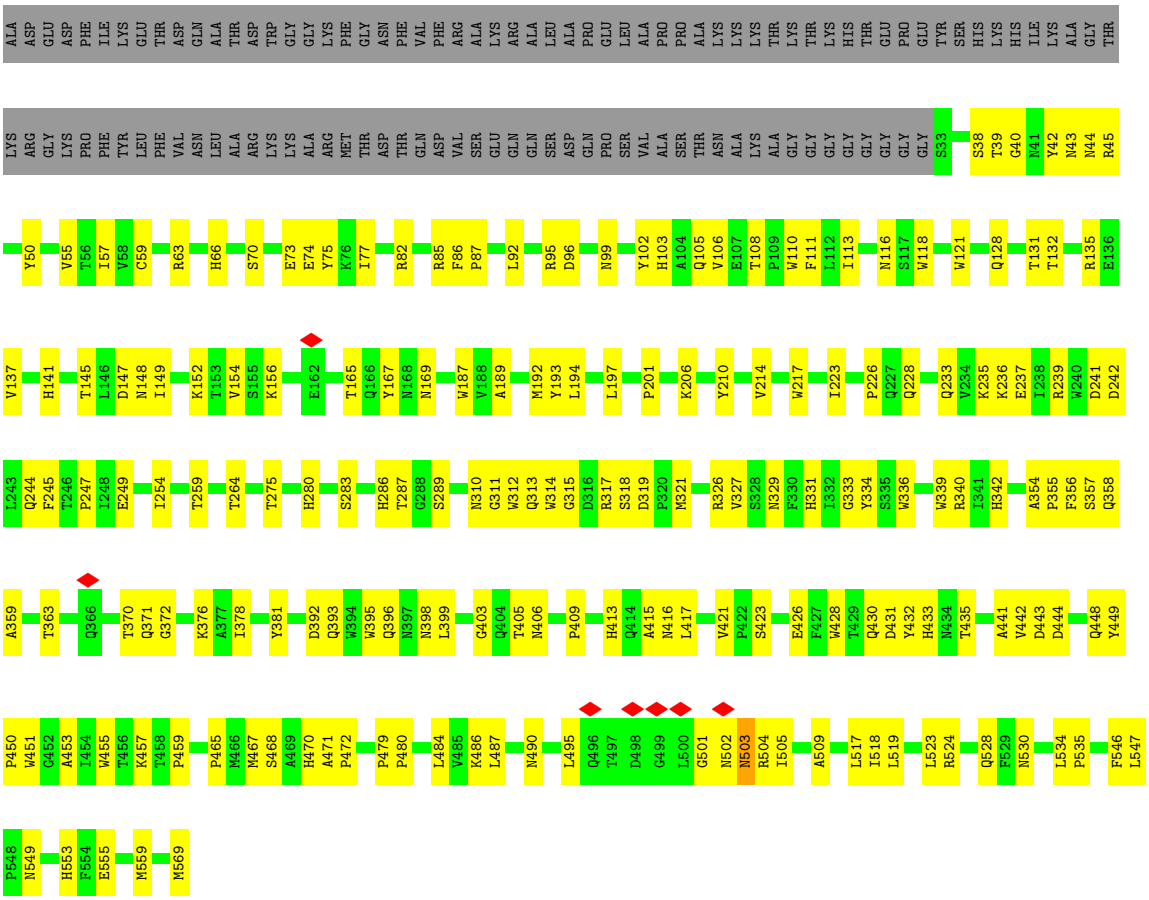
• Molecule 1: VP1

Chain y:



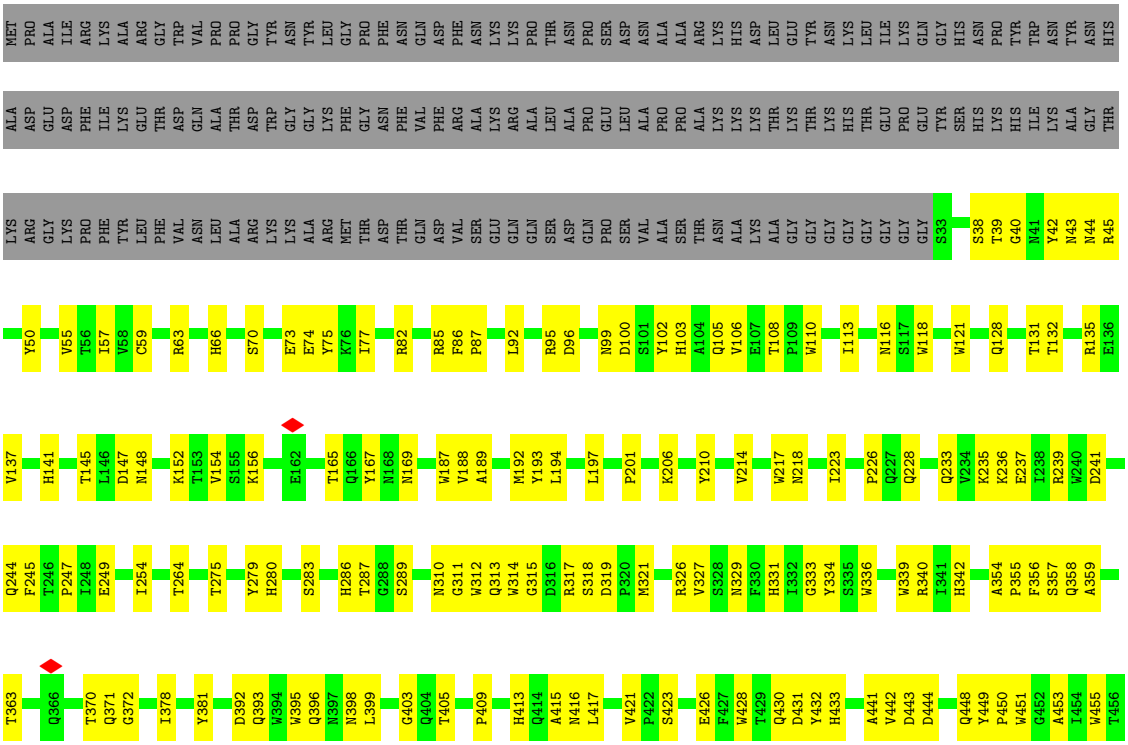
• Molecule 1: VP1

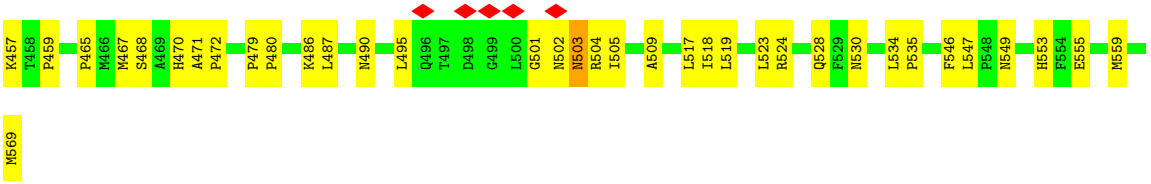
Chain z:



• Molecule 1: VP1

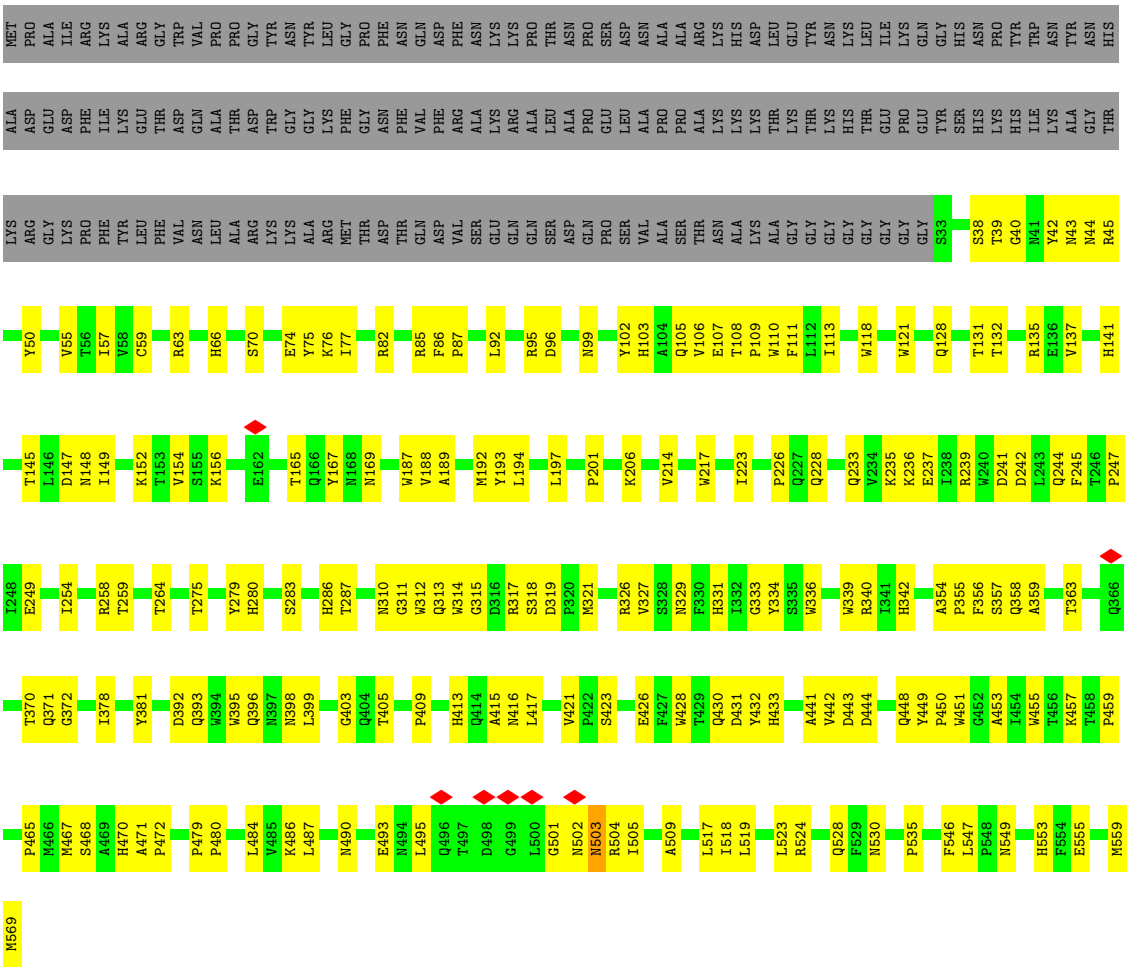
Chain 1:





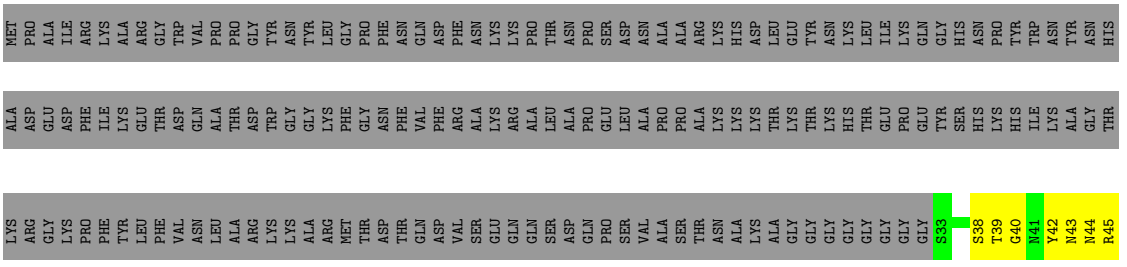
• Molecule 1: VP1

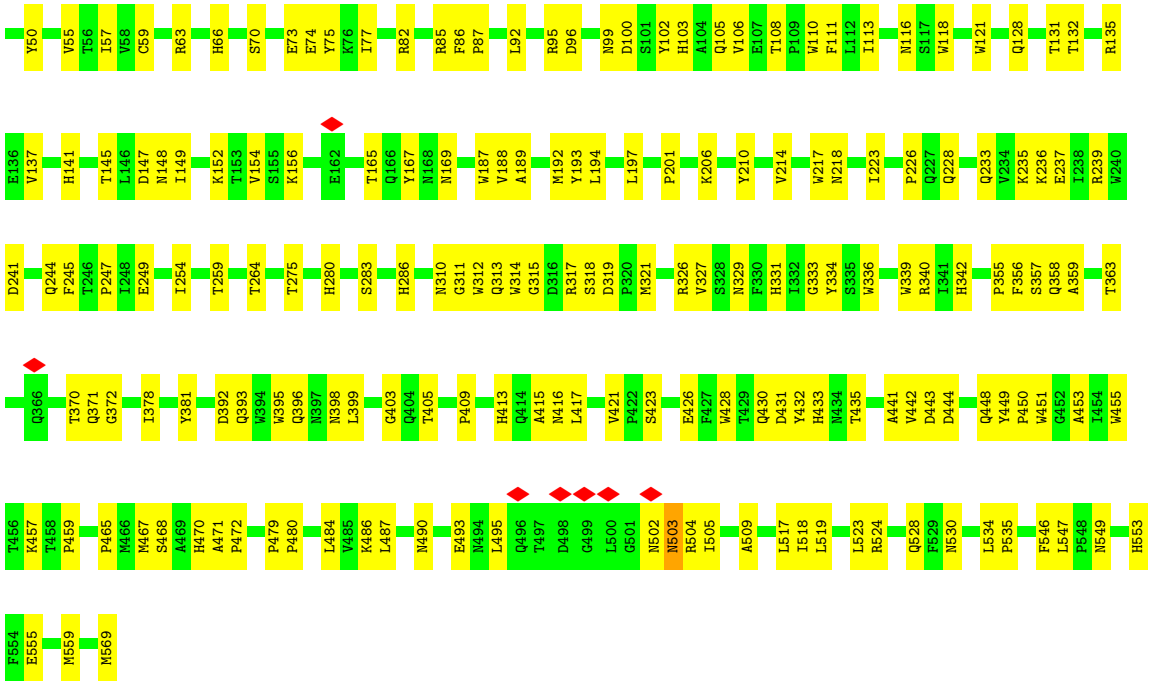
Chain 2:



• Molecule 1: VP1

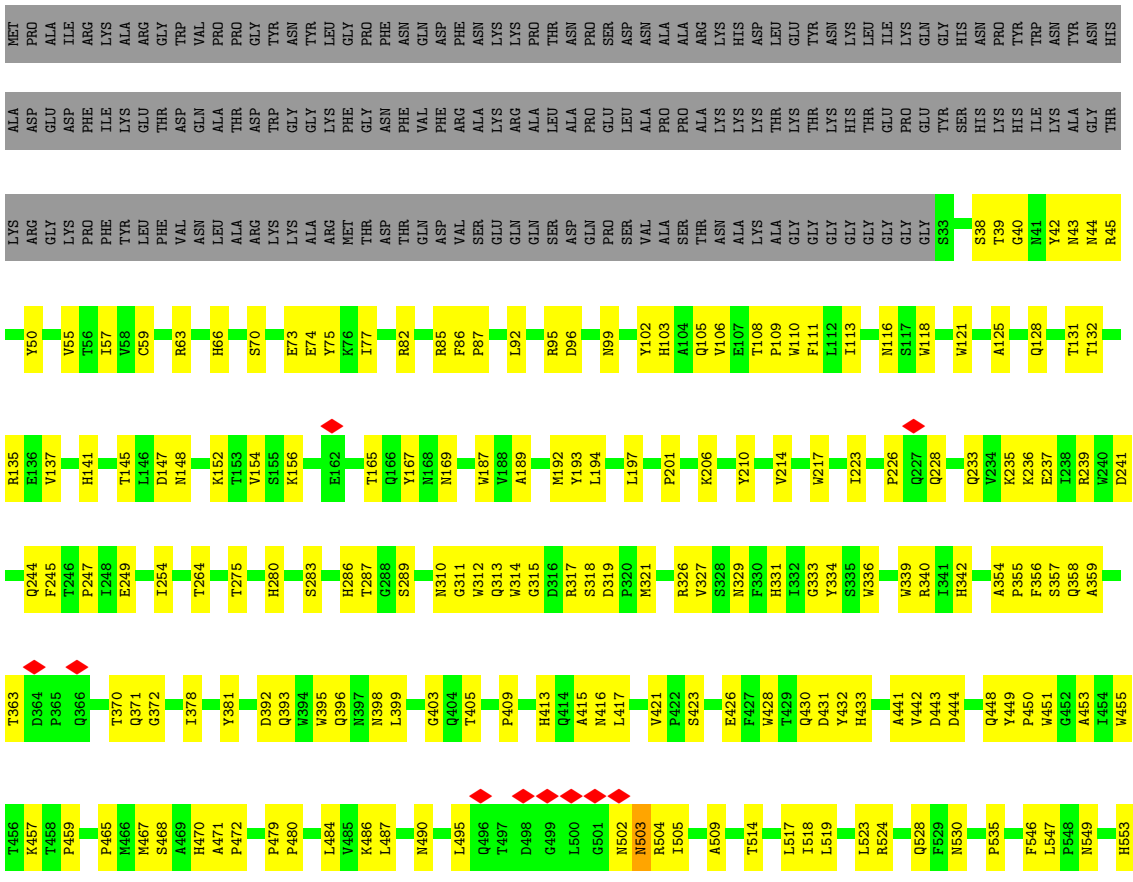
Chain 3:





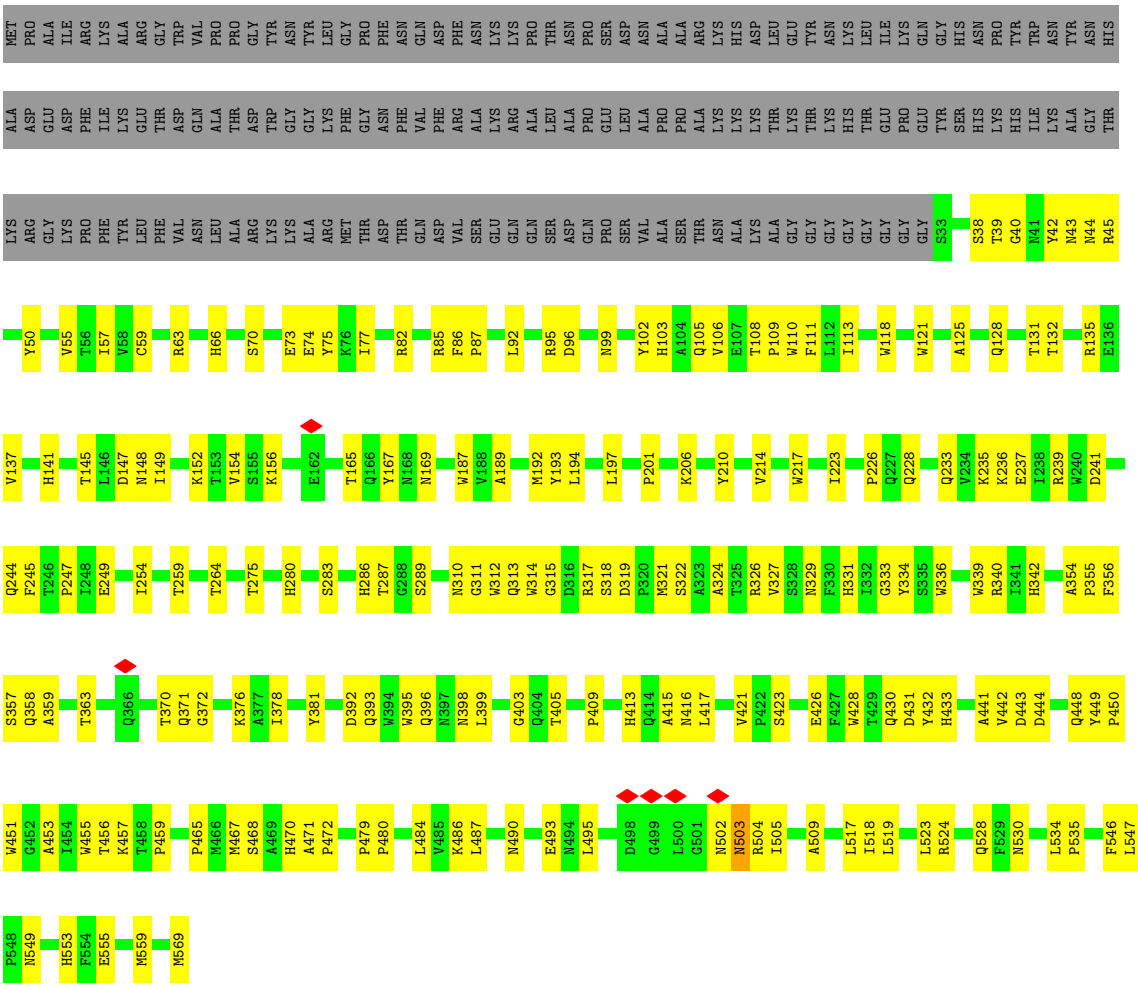
• Molecule 1: VP1

Chain 4:



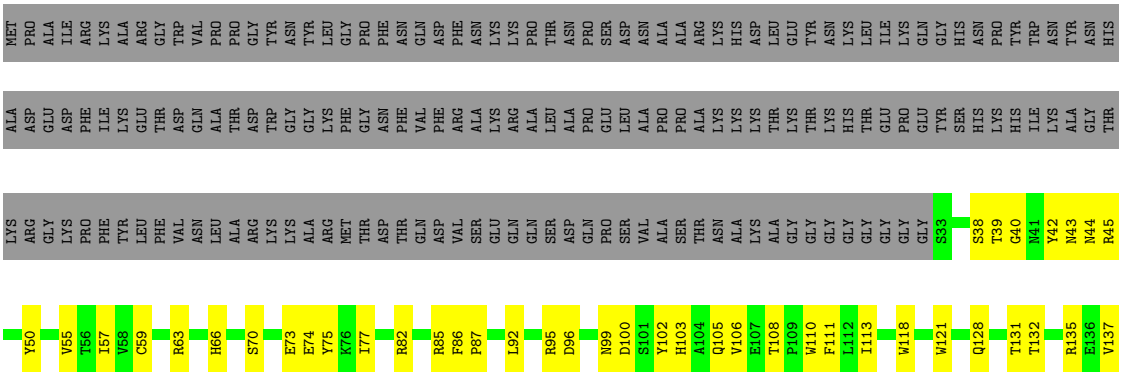
• Molecule 1: VP1

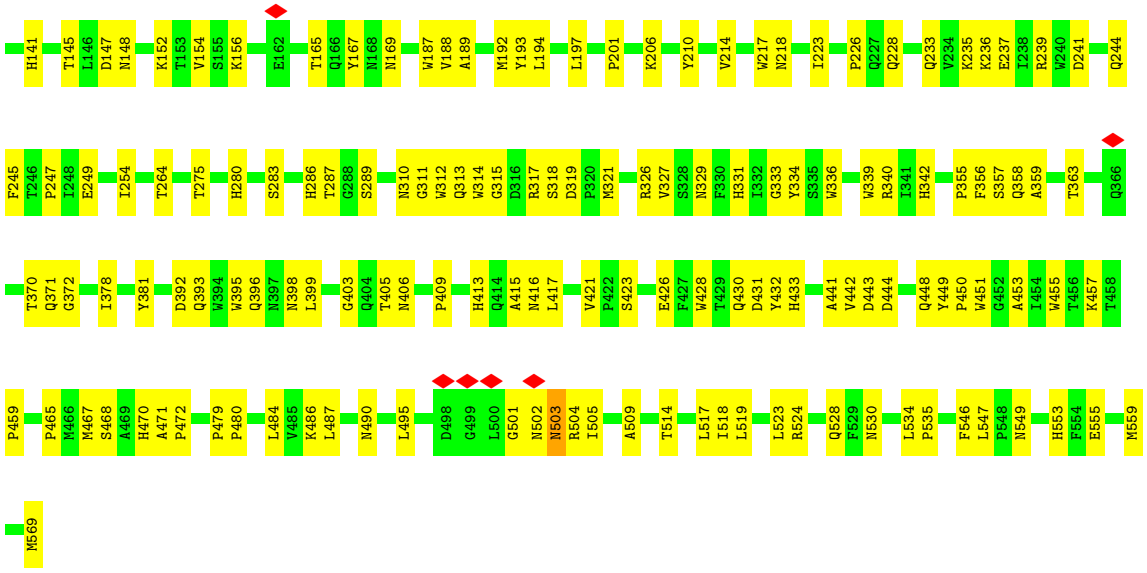
Chain 5:



• Molecule 1: VP1

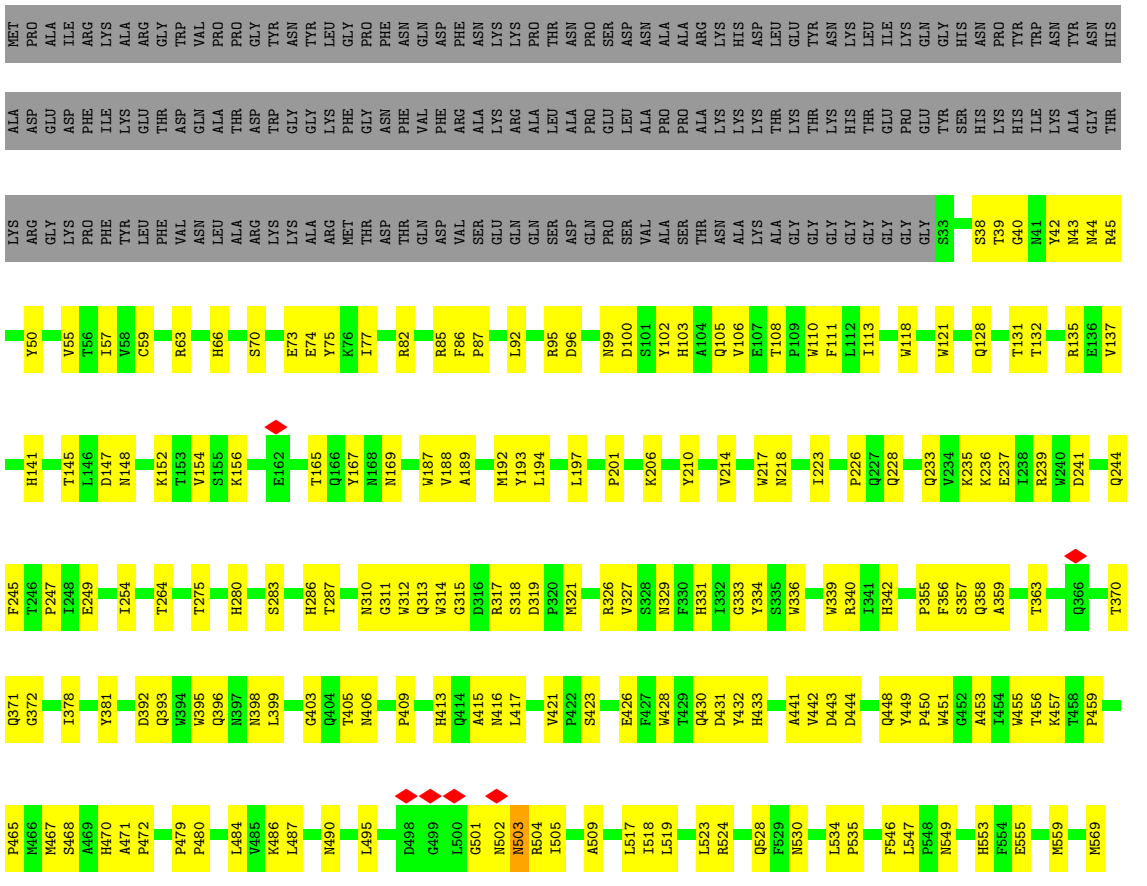
Chain 6:





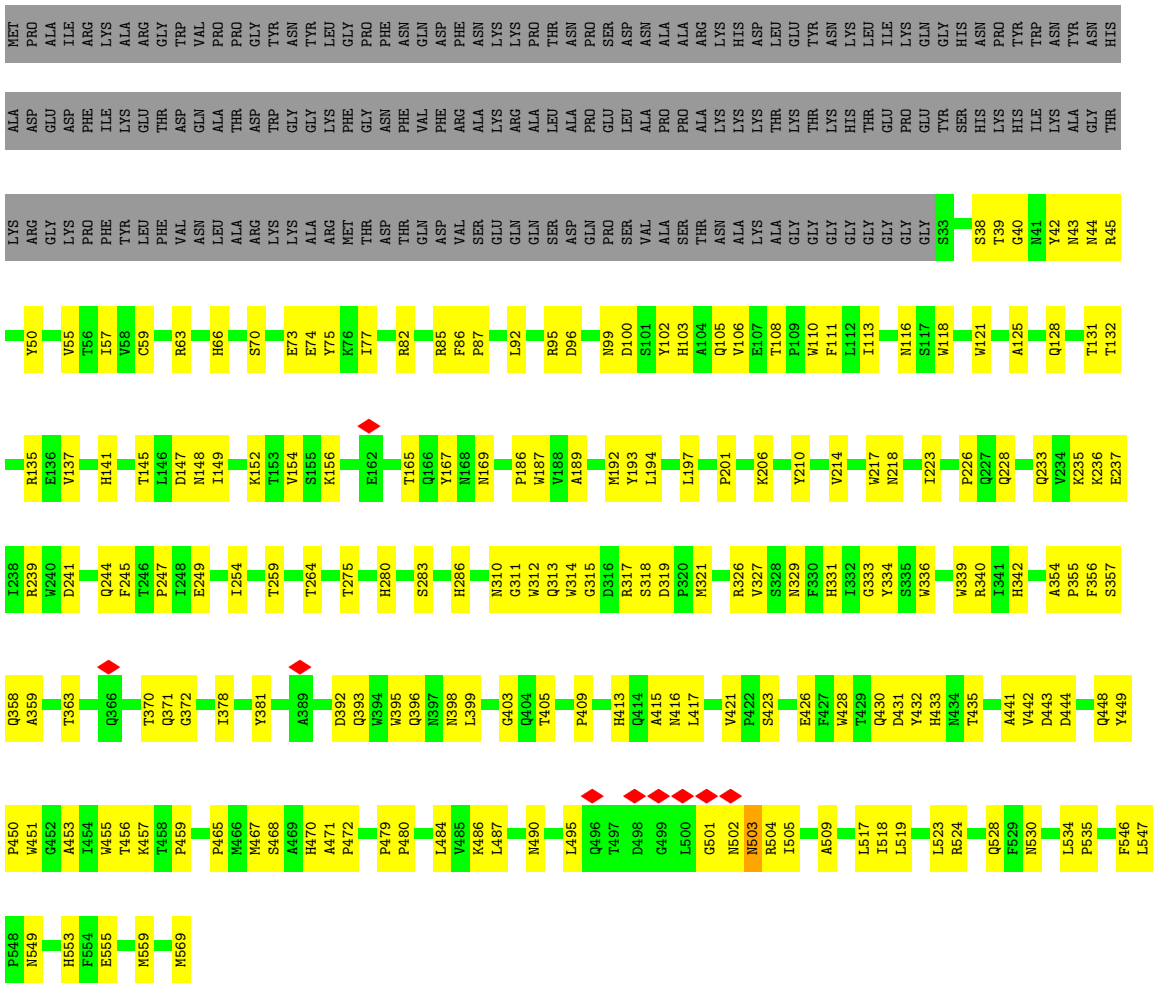
• Molecule 1: VP1

Chain 7:



• Molecule 1: VP1

Chain 8:


MET PRO ALA ILE ARG LYS ALA ARG GLY TRP VAL PRO PRO GLY TYR ASN TYR LEU GLY PRO PHE ASN GLN ASP PHE ASN LYS LYS PRO THR ASN PRO SER ASP ASN ALA ALA ARG LYS HIS ASP LEU GLU TYR ASN LYS LEU ILE LYS GLN GLY HIS ASN PRO TYR TRP ASN TYR ASN HIS
ALA ASP GLU ASP PHE ILE LYS GLU THR ASP GLN ALA THR ASP TRP GLY GLY LYS PHE GLY ASN PHE VAL PHE ARG ALA LYS ARG ALA LEU ALA PRO GLU LEU ALA ASN ALA PRO PRO ALA LYS LYS LYS THR LYS THR LYS HIS THR GLU PRO GLU TYR SER HIS LYS HIS ILE LYS ALA ALA GLY THR
LYS ARG GLY LYS PRO PHE TYR LEU PHE VAL ASN LEU ALA ARG LYS LYS ALA ARG MET THR ASP THR GLN ASP VAL SER GLU GLN GLN SER ASP GLN PRO SER VAL ALA SER THR ASN ALA LYS ALA GLY GLY GLY GLY GLY GLY GLY S33 S38 T39 G40 N41 Y42 N43 N44 R45
Y50 V55 T56 I57 V58 C59 R63 H66 S70 E73 E74 Y75 K76 I77 R82 R85 F86 P87 L92 R95 D96 N99 D100 S101 Y102 H103 A104 Q105 V106 E107 T108 P109 W110 F111 L112 I113 N116 S117 W118 W121 A125 Q128 T131 T132
R135 E136 V137 H141 T145 L146 D147 N148 I149 K152 T153 V154 S155 K156 E162 T165 Q166 Y167 N168 N169 P186 W187 V188 A189 M192 Y193 L194 L197 P201 K206 Y210 Y214 W217 N218 I223 P226 Q227 Q228 Q233 Y234 K235 K236 E237
I238 R239 W240 D241 Q244 F245 T246 P247 I248 E249 I254 T259 T264 T275 H280 S283 H286 N310 G311 W312 Q313 W314 G315 D316 R317 S318 D319 P320 M321 R326 V327 S328 N329 F330 H331 I332 G333 Y334 S335 W336 W339 R340 I341 H342 A354 P355 F356 S357
Q358 A359 T363 Q366 T370 Q371 G372 I378 Y381 A389 D392 Q393 W394 W395 Q396 N397 N398 L399 G403 Q404 T405 P409 H413 Q414 A415 N416 L417 V421 P422 S423 E426 F427 W428 T429 Q430 D431 Y432 H433 N434 T435 A441 V442 D443 D444 Q448 Y449
P450 W451 G452 A453 I454 W455 T456 K457 T458 P459 P465 M466 M467 S468 A469 H470 A471 P472 P479 P480 L484 V485 K486 L487 N490 L495 Q496 T497 D498 G499 L500 G501 N502 N503 R504 I505 A509 L517 I518 L519 L523 R524 Q528 F529 N530 L534 P535 F546 L547
P548 N549 H553 F554 E555 M559 M569

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	55466	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	75	Depositor
Minimum defocus (nm)	100	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	130000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	22.842	Depositor
Minimum map value	-14.265	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	493.49997, 493.49997, 493.49997	wwPDB
Map dimensions	470, 470, 470	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.05, 1.05, 1.05	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	1	0.52	0/4500	0.72	7/6156 (0.1%)
1	2	0.52	0/4500	0.72	8/6156 (0.1%)
1	3	0.52	0/4500	0.72	8/6156 (0.1%)
1	4	0.52	0/4500	0.72	7/6156 (0.1%)
1	5	0.52	0/4500	0.72	8/6156 (0.1%)
1	6	0.52	0/4500	0.72	7/6156 (0.1%)
1	7	0.52	0/4500	0.72	7/6156 (0.1%)
1	8	0.52	0/4500	0.72	7/6156 (0.1%)
1	A	0.52	0/4500	0.72	7/6156 (0.1%)
1	B	0.52	0/4500	0.72	8/6156 (0.1%)
1	C	0.52	0/4500	0.72	7/6156 (0.1%)
1	D	0.52	0/4500	0.72	7/6156 (0.1%)
1	E	0.52	0/4500	0.72	7/6156 (0.1%)
1	F	0.52	0/4500	0.72	7/6156 (0.1%)
1	G	0.52	0/4500	0.72	8/6156 (0.1%)
1	H	0.52	0/4500	0.72	7/6156 (0.1%)
1	I	0.52	0/4500	0.72	7/6156 (0.1%)
1	J	0.52	0/4500	0.72	7/6156 (0.1%)
1	K	0.52	0/4500	0.72	8/6156 (0.1%)
1	L	0.52	0/4500	0.72	8/6156 (0.1%)
1	M	0.52	0/4500	0.72	7/6156 (0.1%)
1	N	0.52	0/4500	0.72	7/6156 (0.1%)
1	O	0.52	0/4500	0.72	7/6156 (0.1%)
1	P	0.52	0/4500	0.72	8/6156 (0.1%)
1	Q	0.52	0/4500	0.72	7/6156 (0.1%)
1	R	0.52	0/4500	0.72	7/6156 (0.1%)
1	S	0.52	0/4500	0.72	8/6156 (0.1%)
1	T	0.52	0/4500	0.72	8/6156 (0.1%)
1	U	0.52	0/4500	0.72	7/6156 (0.1%)
1	V	0.52	0/4500	0.72	7/6156 (0.1%)
1	W	0.52	0/4500	0.72	7/6156 (0.1%)
1	X	0.52	0/4500	0.72	7/6156 (0.1%)
1	Y	0.52	0/4500	0.72	7/6156 (0.1%)
1	Z	0.52	0/4500	0.72	7/6156 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.52	0/4500	0.72	7/6156 (0.1%)
1	b	0.52	0/4500	0.72	7/6156 (0.1%)
1	c	0.52	0/4500	0.72	7/6156 (0.1%)
1	d	0.52	0/4500	0.72	7/6156 (0.1%)
1	e	0.52	0/4500	0.72	7/6156 (0.1%)
1	f	0.52	0/4500	0.72	7/6156 (0.1%)
1	g	0.52	0/4500	0.72	7/6156 (0.1%)
1	h	0.52	0/4500	0.72	7/6156 (0.1%)
1	i	0.52	0/4500	0.72	8/6156 (0.1%)
1	j	0.52	0/4500	0.72	7/6156 (0.1%)
1	k	0.52	0/4500	0.72	7/6156 (0.1%)
1	l	0.52	0/4500	0.72	7/6156 (0.1%)
1	m	0.52	0/4500	0.72	8/6156 (0.1%)
1	n	0.52	0/4500	0.72	7/6156 (0.1%)
1	o	0.52	0/4500	0.72	7/6156 (0.1%)
1	p	0.52	0/4500	0.72	7/6156 (0.1%)
1	q	0.52	0/4500	0.72	8/6156 (0.1%)
1	r	0.52	0/4500	0.72	7/6156 (0.1%)
1	s	0.52	0/4500	0.72	7/6156 (0.1%)
1	t	0.52	0/4500	0.72	8/6156 (0.1%)
1	u	0.52	0/4500	0.72	8/6156 (0.1%)
1	v	0.52	0/4500	0.72	7/6156 (0.1%)
1	w	0.52	0/4500	0.72	7/6156 (0.1%)
1	x	0.52	0/4500	0.72	7/6156 (0.1%)
1	y	0.52	0/4500	0.72	7/6156 (0.1%)
1	z	0.52	0/4500	0.72	7/6156 (0.1%)
All	All	0.52	0/270000	0.72	435/369360 (0.1%)

There are no bond length outliers.

All (435) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	503	ASN	N-CA-CB	-10.88	93.38	110.46
1	5	503	ASN	N-CA-CB	-10.88	93.38	110.46
1	m	503	ASN	N-CA-CB	-10.87	93.39	110.46
1	J	503	ASN	N-CA-CB	-10.87	93.40	110.46
1	U	503	ASN	N-CA-CB	-10.87	93.40	110.46
1	f	503	ASN	N-CA-CB	-10.87	93.40	110.46
1	1	503	ASN	N-CA-CB	-10.87	93.40	110.46
1	D	503	ASN	N-CA-CB	-10.86	93.40	110.46
1	l	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	o	503	ASN	N-CA-CB	-10.86	93.41	110.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	s	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	u	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	7	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	H	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	P	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	k	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	6	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	M	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	O	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	S	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	X	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	8	503	ASN	N-CA-CB	-10.86	93.41	110.46
1	w	503	ASN	N-CA-CB	-10.86	93.42	110.46
1	2	503	ASN	N-CA-CB	-10.86	93.42	110.46
1	A	503	ASN	N-CA-CB	-10.85	93.42	110.46
1	F	503	ASN	N-CA-CB	-10.85	93.42	110.46
1	a	503	ASN	N-CA-CB	-10.85	93.42	110.46
1	b	503	ASN	N-CA-CB	-10.85	93.42	110.46
1	d	503	ASN	N-CA-CB	-10.85	93.42	110.46
1	e	503	ASN	N-CA-CB	-10.85	93.42	110.46
1	v	503	ASN	N-CA-CB	-10.85	93.42	110.46
1	y	503	ASN	N-CA-CB	-10.85	93.42	110.46
1	G	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	L	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	Q	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	Z	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	z	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	I	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	N	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	Y	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	t	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	x	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	c	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	g	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	h	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	j	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	n	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	3	503	ASN	N-CA-CB	-10.85	93.43	110.46
1	E	503	ASN	N-CA-CB	-10.84	93.44	110.46
1	K	503	ASN	N-CA-CB	-10.84	93.44	110.46
1	W	503	ASN	N-CA-CB	-10.84	93.44	110.46
1	r	503	ASN	N-CA-CB	-10.84	93.44	110.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4	503	ASN	N-CA-CB	-10.84	93.44	110.46
1	p	503	ASN	N-CA-CB	-10.84	93.44	110.46
1	R	503	ASN	N-CA-CB	-10.84	93.44	110.46
1	C	503	ASN	N-CA-CB	-10.83	93.46	110.46
1	T	503	ASN	N-CA-CB	-10.83	93.46	110.46
1	V	503	ASN	N-CA-CB	-10.83	93.46	110.46
1	i	503	ASN	N-CA-CB	-10.83	93.46	110.46
1	q	503	ASN	N-CA-CB	-10.82	93.47	110.46
1	j	502	ASN	N-CA-C	-7.90	103.53	113.01
1	J	502	ASN	N-CA-C	-7.88	103.55	113.01
1	E	502	ASN	N-CA-C	-7.87	103.57	113.01
1	h	502	ASN	N-CA-C	-7.87	103.57	113.01
1	w	502	ASN	N-CA-C	-7.87	103.57	113.01
1	K	502	ASN	N-CA-C	-7.86	103.58	113.01
1	L	502	ASN	N-CA-C	-7.86	103.58	113.01
1	M	502	ASN	N-CA-C	-7.85	103.59	113.01
1	d	502	ASN	N-CA-C	-7.40	103.51	112.54
1	V	502	ASN	N-CA-C	-7.40	103.52	112.54
1	Q	502	ASN	N-CA-C	-7.39	103.53	112.54
1	t	502	ASN	N-CA-C	-7.39	103.53	112.54
1	B	502	ASN	N-CA-C	-7.38	103.53	112.54
1	R	502	ASN	N-CA-C	-7.38	103.53	112.54
1	1	502	ASN	N-CA-C	-7.38	103.53	112.54
1	C	502	ASN	N-CA-C	-7.38	103.53	112.54
1	2	502	ASN	N-CA-C	-7.38	103.53	112.54
1	T	502	ASN	N-CA-C	-7.38	103.54	112.54
1	G	502	ASN	N-CA-C	-7.38	103.54	112.54
1	S	502	ASN	N-CA-C	-7.37	103.55	112.54
1	4	502	ASN	N-CA-C	-7.37	103.55	112.54
1	A	502	ASN	N-CA-C	-7.37	103.55	112.54
1	n	502	ASN	N-CA-C	-7.37	103.55	112.54
1	3	502	ASN	N-CA-C	-7.37	103.55	112.54
1	W	502	ASN	N-CA-C	-7.37	103.55	112.54
1	o	502	ASN	N-CA-C	-7.37	103.55	112.54
1	8	502	ASN	N-CA-C	-7.37	103.55	112.54
1	N	502	ASN	N-CA-C	-7.36	103.56	112.54
1	Y	502	ASN	N-CA-C	-7.36	103.56	112.54
1	U	502	ASN	N-CA-C	-7.36	103.56	112.54
1	s	502	ASN	N-CA-C	-7.36	103.56	112.54
1	c	502	ASN	N-CA-C	-7.36	103.56	112.54
1	f	502	ASN	N-CA-C	-7.36	103.56	112.54
1	v	502	ASN	N-CA-C	-7.36	103.56	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	502	ASN	N-CA-C	-7.36	103.57	112.54
1	H	502	ASN	N-CA-C	-7.36	103.57	112.54
1	P	502	ASN	N-CA-C	-7.36	103.57	112.54
1	i	502	ASN	N-CA-C	-7.36	103.57	112.54
1	k	502	ASN	N-CA-C	-7.36	103.57	112.54
1	5	502	ASN	N-CA-C	-7.36	103.57	112.54
1	6	502	ASN	N-CA-C	-7.36	103.57	112.54
1	7	502	ASN	N-CA-C	-7.36	103.57	112.54
1	Z	502	ASN	N-CA-C	-7.35	103.57	112.54
1	y	502	ASN	N-CA-C	-7.35	103.57	112.54
1	b	502	ASN	N-CA-C	-7.35	103.58	112.54
1	g	502	ASN	N-CA-C	-7.35	103.58	112.54
1	p	502	ASN	N-CA-C	-7.35	103.58	112.54
1	l	502	ASN	N-CA-C	-7.35	103.58	112.54
1	m	502	ASN	N-CA-C	-7.35	103.58	112.54
1	F	502	ASN	N-CA-C	-7.34	103.58	112.54
1	I	502	ASN	N-CA-C	-7.34	103.58	112.54
1	a	502	ASN	N-CA-C	-7.34	103.58	112.54
1	e	502	ASN	N-CA-C	-7.34	103.58	112.54
1	q	502	ASN	N-CA-C	-7.34	103.58	112.54
1	x	502	ASN	N-CA-C	-7.34	103.58	112.54
1	X	502	ASN	N-CA-C	-7.34	103.58	112.54
1	O	502	ASN	N-CA-C	-7.34	103.59	112.54
1	r	502	ASN	N-CA-C	-7.34	103.59	112.54
1	u	502	ASN	N-CA-C	-7.34	103.59	112.54
1	z	502	ASN	N-CA-C	-7.34	103.59	112.54
1	V	319	ASP	N-CA-C	6.31	123.75	109.81
1	g	319	ASP	N-CA-C	6.31	123.75	109.81
1	p	319	ASP	N-CA-C	6.31	123.75	109.81
1	l	319	ASP	N-CA-C	6.30	123.74	109.81
1	w	319	ASP	N-CA-C	6.30	123.74	109.81
1	z	319	ASP	N-CA-C	6.30	123.72	109.81
1	I	319	ASP	N-CA-C	6.29	123.72	109.81
1	x	319	ASP	N-CA-C	6.29	123.72	109.81
1	2	319	ASP	N-CA-C	6.29	123.72	109.81
1	C	319	ASP	N-CA-C	6.29	123.72	109.81
1	E	319	ASP	N-CA-C	6.29	123.71	109.81
1	G	319	ASP	N-CA-C	6.29	123.72	109.81
1	T	319	ASP	N-CA-C	6.29	123.71	109.81
1	e	319	ASP	N-CA-C	6.29	123.71	109.81
1	m	319	ASP	N-CA-C	6.29	123.71	109.81
1	4	319	ASP	N-CA-C	6.29	123.71	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	319	ASP	N-CA-C	6.29	123.71	109.81
1	D	319	ASP	N-CA-C	6.29	123.71	109.81
1	Z	319	ASP	N-CA-C	6.29	123.71	109.81
1	j	319	ASP	N-CA-C	6.29	123.71	109.81
1	q	319	ASP	N-CA-C	6.29	123.71	109.81
1	1	319	ASP	N-CA-C	6.29	123.71	109.81
1	5	319	ASP	N-CA-C	6.29	123.71	109.81
1	B	319	ASP	N-CA-C	6.29	123.70	109.81
1	R	319	ASP	N-CA-C	6.29	123.70	109.81
1	S	319	ASP	N-CA-C	6.29	123.70	109.81
1	r	319	ASP	N-CA-C	6.29	123.70	109.81
1	H	319	ASP	N-CA-C	6.29	123.70	109.81
1	P	319	ASP	N-CA-C	6.29	123.70	109.81
1	W	319	ASP	N-CA-C	6.29	123.70	109.81
1	i	319	ASP	N-CA-C	6.29	123.70	109.81
1	A	319	ASP	N-CA-C	6.28	123.70	109.81
1	F	319	ASP	N-CA-C	6.28	123.70	109.81
1	a	319	ASP	N-CA-C	6.28	123.70	109.81
1	c	319	ASP	N-CA-C	6.28	123.70	109.81
1	d	319	ASP	N-CA-C	6.28	123.70	109.81
1	f	319	ASP	N-CA-C	6.28	123.70	109.81
1	n	319	ASP	N-CA-C	6.28	123.70	109.81
1	y	319	ASP	N-CA-C	6.28	123.70	109.81
1	3	319	ASP	N-CA-C	6.28	123.70	109.81
1	6	319	ASP	N-CA-C	6.28	123.69	109.81
1	7	319	ASP	N-CA-C	6.28	123.69	109.81
1	J	319	ASP	N-CA-C	6.28	123.69	109.81
1	L	319	ASP	N-CA-C	6.28	123.69	109.81
1	U	319	ASP	N-CA-C	6.28	123.69	109.81
1	s	319	ASP	N-CA-C	6.28	123.69	109.81
1	b	319	ASP	N-CA-C	6.28	123.69	109.81
1	o	319	ASP	N-CA-C	6.28	123.68	109.81
1	M	319	ASP	N-CA-C	6.28	123.68	109.81
1	O	319	ASP	N-CA-C	6.28	123.68	109.81
1	h	319	ASP	N-CA-C	6.28	123.68	109.81
1	8	319	ASP	N-CA-C	6.28	123.68	109.81
1	X	319	ASP	N-CA-C	6.27	123.68	109.81
1	t	319	ASP	N-CA-C	6.27	123.68	109.81
1	K	319	ASP	N-CA-C	6.27	123.67	109.81
1	v	319	ASP	N-CA-C	6.27	123.67	109.81
1	u	319	ASP	N-CA-C	6.27	123.67	109.81
1	N	319	ASP	N-CA-C	6.27	123.66	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	319	ASP	N-CA-C	6.27	123.66	109.81
1	k	319	ASP	N-CA-C	6.27	123.66	109.81
1	o	502	ASN	CA-C-N	-6.01	110.87	122.06
1	o	502	ASN	C-N-CA	-6.01	110.87	122.06
1	M	502	ASN	CA-C-N	-6.00	110.89	122.06
1	M	502	ASN	C-N-CA	-6.00	110.89	122.06
1	r	502	ASN	CA-C-N	-6.00	110.89	122.06
1	r	502	ASN	C-N-CA	-6.00	110.89	122.06
1	8	502	ASN	CA-C-N	-6.00	110.89	122.06
1	8	502	ASN	C-N-CA	-6.00	110.89	122.06
1	F	502	ASN	CA-C-N	-6.00	110.90	122.06
1	F	502	ASN	C-N-CA	-6.00	110.90	122.06
1	a	502	ASN	CA-C-N	-6.00	110.90	122.06
1	a	502	ASN	C-N-CA	-6.00	110.90	122.06
1	e	502	ASN	CA-C-N	-6.00	110.90	122.06
1	e	502	ASN	C-N-CA	-6.00	110.90	122.06
1	v	502	ASN	CA-C-N	-6.00	110.90	122.06
1	v	502	ASN	C-N-CA	-6.00	110.90	122.06
1	L	502	ASN	CA-C-N	-6.00	110.90	122.06
1	L	502	ASN	C-N-CA	-6.00	110.90	122.06
1	i	502	ASN	CA-C-N	-6.00	110.90	122.06
1	i	502	ASN	C-N-CA	-6.00	110.90	122.06
1	z	502	ASN	CA-C-N	-6.00	110.90	122.06
1	z	502	ASN	C-N-CA	-6.00	110.90	122.06
1	2	502	ASN	CA-C-N	-6.00	110.90	122.06
1	2	502	ASN	C-N-CA	-6.00	110.90	122.06
1	W	502	ASN	CA-C-N	-6.00	110.90	122.06
1	W	502	ASN	C-N-CA	-6.00	110.90	122.06
1	l	502	ASN	CA-C-N	-6.00	110.90	122.06
1	l	502	ASN	C-N-CA	-6.00	110.90	122.06
1	5	502	ASN	CA-C-N	-6.00	110.90	122.06
1	5	502	ASN	C-N-CA	-6.00	110.90	122.06
1	B	502	ASN	CA-C-N	-6.00	110.91	122.06
1	B	502	ASN	C-N-CA	-6.00	110.91	122.06
1	u	502	ASN	CA-C-N	-6.00	110.91	122.06
1	u	502	ASN	C-N-CA	-6.00	110.91	122.06
1	Z	502	ASN	CA-C-N	-5.99	110.91	122.06
1	Z	502	ASN	C-N-CA	-5.99	110.91	122.06
1	f	502	ASN	CA-C-N	-5.99	110.91	122.06
1	f	502	ASN	C-N-CA	-5.99	110.91	122.06
1	m	502	ASN	CA-C-N	-5.99	110.91	122.06
1	m	502	ASN	C-N-CA	-5.99	110.91	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	502	ASN	CA-C-N	-5.99	110.91	122.06
1	t	502	ASN	C-N-CA	-5.99	110.91	122.06
1	C	502	ASN	CA-C-N	-5.99	110.92	122.06
1	C	502	ASN	C-N-CA	-5.99	110.92	122.06
1	J	502	ASN	CA-C-N	-5.99	110.92	122.06
1	J	502	ASN	C-N-CA	-5.99	110.92	122.06
1	U	502	ASN	CA-C-N	-5.99	110.92	122.06
1	U	502	ASN	C-N-CA	-5.99	110.92	122.06
1	1	502	ASN	CA-C-N	-5.99	110.92	122.06
1	1	502	ASN	C-N-CA	-5.99	110.92	122.06
1	4	502	ASN	CA-C-N	-5.99	110.92	122.06
1	4	502	ASN	C-N-CA	-5.99	110.92	122.06
1	A	502	ASN	CA-C-N	-5.99	110.92	122.06
1	A	502	ASN	C-N-CA	-5.99	110.92	122.06
1	N	502	ASN	CA-C-N	-5.99	110.92	122.06
1	N	502	ASN	C-N-CA	-5.99	110.92	122.06
1	X	502	ASN	CA-C-N	-5.99	110.92	122.06
1	X	502	ASN	C-N-CA	-5.99	110.92	122.06
1	Y	502	ASN	CA-C-N	-5.99	110.92	122.06
1	Y	502	ASN	C-N-CA	-5.99	110.92	122.06
1	w	502	ASN	CA-C-N	-5.99	110.92	122.06
1	w	502	ASN	C-N-CA	-5.99	110.92	122.06
1	s	502	ASN	CA-C-N	-5.99	110.93	122.06
1	s	502	ASN	C-N-CA	-5.99	110.93	122.06
1	7	502	ASN	CA-C-N	-5.99	110.93	122.06
1	7	502	ASN	C-N-CA	-5.99	110.93	122.06
1	E	502	ASN	CA-C-N	-5.98	110.93	122.06
1	E	502	ASN	C-N-CA	-5.98	110.93	122.06
1	h	502	ASN	CA-C-N	-5.98	110.93	122.06
1	h	502	ASN	C-N-CA	-5.98	110.93	122.06
1	H	502	ASN	CA-C-N	-5.98	110.93	122.06
1	H	502	ASN	C-N-CA	-5.98	110.93	122.06
1	P	502	ASN	CA-C-N	-5.98	110.93	122.06
1	P	502	ASN	C-N-CA	-5.98	110.93	122.06
1	S	502	ASN	CA-C-N	-5.98	110.93	122.06
1	S	502	ASN	C-N-CA	-5.98	110.93	122.06
1	k	502	ASN	CA-C-N	-5.98	110.93	122.06
1	k	502	ASN	C-N-CA	-5.98	110.93	122.06
1	6	502	ASN	CA-C-N	-5.98	110.93	122.06
1	6	502	ASN	C-N-CA	-5.98	110.93	122.06
1	G	502	ASN	CA-C-N	-5.98	110.94	122.06
1	G	502	ASN	C-N-CA	-5.98	110.94	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	502	ASN	CA-C-N	-5.98	110.94	122.06
1	I	502	ASN	C-N-CA	-5.98	110.94	122.06
1	O	502	ASN	CA-C-N	-5.98	110.94	122.06
1	O	502	ASN	C-N-CA	-5.98	110.94	122.06
1	Q	502	ASN	CA-C-N	-5.98	110.94	122.06
1	Q	502	ASN	C-N-CA	-5.98	110.94	122.06
1	x	502	ASN	CA-C-N	-5.98	110.94	122.06
1	x	502	ASN	C-N-CA	-5.98	110.94	122.06
1	R	502	ASN	CA-C-N	-5.98	110.94	122.06
1	R	502	ASN	C-N-CA	-5.98	110.94	122.06
1	D	502	ASN	CA-C-N	-5.97	110.95	122.06
1	D	502	ASN	C-N-CA	-5.97	110.95	122.06
1	c	502	ASN	CA-C-N	-5.97	110.95	122.06
1	c	502	ASN	C-N-CA	-5.97	110.95	122.06
1	g	502	ASN	CA-C-N	-5.97	110.95	122.06
1	g	502	ASN	C-N-CA	-5.97	110.95	122.06
1	n	502	ASN	CA-C-N	-5.97	110.95	122.06
1	n	502	ASN	C-N-CA	-5.97	110.95	122.06
1	p	502	ASN	CA-C-N	-5.97	110.95	122.06
1	p	502	ASN	C-N-CA	-5.97	110.95	122.06
1	3	502	ASN	CA-C-N	-5.97	110.95	122.06
1	3	502	ASN	C-N-CA	-5.97	110.95	122.06
1	b	502	ASN	CA-C-N	-5.97	110.95	122.06
1	b	502	ASN	C-N-CA	-5.97	110.95	122.06
1	d	502	ASN	CA-C-N	-5.97	110.95	122.06
1	d	502	ASN	C-N-CA	-5.97	110.95	122.06
1	y	502	ASN	CA-C-N	-5.97	110.95	122.06
1	y	502	ASN	C-N-CA	-5.97	110.95	122.06
1	j	502	ASN	CA-C-N	-5.97	110.96	122.06
1	j	502	ASN	C-N-CA	-5.97	110.96	122.06
1	K	502	ASN	CA-C-N	-5.97	110.96	122.06
1	K	502	ASN	C-N-CA	-5.97	110.96	122.06
1	q	502	ASN	CA-C-N	-5.97	110.96	122.06
1	q	502	ASN	C-N-CA	-5.97	110.96	122.06
1	T	502	ASN	CA-C-N	-5.96	110.97	122.06
1	T	502	ASN	C-N-CA	-5.96	110.97	122.06
1	V	502	ASN	CA-C-N	-5.96	110.97	122.06
1	V	502	ASN	C-N-CA	-5.96	110.97	122.06
1	7	336	TRP	CB-CA-C	5.59	117.58	110.76
1	5	336	TRP	CB-CA-C	5.58	117.57	110.76
1	j	336	TRP	CB-CA-C	5.58	117.57	110.76
1	m	336	TRP	CB-CA-C	5.57	117.56	110.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	336	TRP	CB-CA-C	5.57	117.55	110.76
1	8	336	TRP	CB-CA-C	5.56	117.55	110.76
1	B	336	TRP	CB-CA-C	5.56	117.55	110.76
1	F	336	TRP	CB-CA-C	5.56	117.55	110.76
1	a	336	TRP	CB-CA-C	5.56	117.55	110.76
1	c	336	TRP	CB-CA-C	5.56	117.55	110.76
1	d	336	TRP	CB-CA-C	5.56	117.54	110.76
1	h	336	TRP	CB-CA-C	5.56	117.54	110.76
1	o	336	TRP	CB-CA-C	5.56	117.54	110.76
1	t	336	TRP	CB-CA-C	5.56	117.54	110.76
1	w	336	TRP	CB-CA-C	5.56	117.54	110.76
1	I	336	TRP	CB-CA-C	5.56	117.54	110.76
1	Q	336	TRP	CB-CA-C	5.56	117.54	110.76
1	D	336	TRP	CB-CA-C	5.55	117.54	110.76
1	R	336	TRP	CB-CA-C	5.55	117.54	110.76
1	u	336	TRP	CB-CA-C	5.55	117.54	110.76
1	x	336	TRP	CB-CA-C	5.55	117.53	110.76
1	4	336	TRP	CB-CA-C	5.55	117.53	110.76
1	U	336	TRP	CB-CA-C	5.55	117.53	110.76
1	i	336	TRP	CB-CA-C	5.55	117.53	110.76
1	s	336	TRP	CB-CA-C	5.55	117.53	110.76
1	1	336	TRP	CB-CA-C	5.55	117.53	110.76
1	6	336	TRP	CB-CA-C	5.55	117.53	110.76
1	V	336	TRP	CB-CA-C	5.55	117.53	110.76
1	l	336	TRP	CB-CA-C	5.55	117.53	110.76
1	A	336	TRP	CB-CA-C	5.54	117.52	110.76
1	M	336	TRP	CB-CA-C	5.54	117.52	110.76
1	S	336	TRP	CB-CA-C	5.54	117.52	110.76
1	b	336	TRP	CB-CA-C	5.54	117.52	110.76
1	f	336	TRP	CB-CA-C	5.54	117.52	110.76
1	n	336	TRP	CB-CA-C	5.54	117.52	110.76
1	v	336	TRP	CB-CA-C	5.54	117.52	110.76
1	y	336	TRP	CB-CA-C	5.54	117.52	110.76
1	3	336	TRP	CB-CA-C	5.54	117.52	110.76
1	K	336	TRP	CB-CA-C	5.54	117.52	110.76
1	g	336	TRP	CB-CA-C	5.54	117.52	110.76
1	q	336	TRP	CB-CA-C	5.54	117.52	110.76
1	r	336	TRP	CB-CA-C	5.54	117.52	110.76
1	E	336	TRP	CB-CA-C	5.54	117.51	110.76
1	G	336	TRP	CB-CA-C	5.54	117.51	110.76
1	X	336	TRP	CB-CA-C	5.54	117.51	110.76
1	J	336	TRP	CB-CA-C	5.52	117.50	110.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	336	TRP	CB-CA-C	5.52	117.50	110.76
1	2	336	TRP	CB-CA-C	5.52	117.50	110.76
1	W	336	TRP	CB-CA-C	5.52	117.50	110.76
1	P	336	TRP	CB-CA-C	5.52	117.50	110.76
1	T	336	TRP	CB-CA-C	5.52	117.49	110.76
1	e	336	TRP	CB-CA-C	5.52	117.49	110.76
1	p	336	TRP	CB-CA-C	5.51	117.49	110.76
1	z	336	TRP	CB-CA-C	5.51	117.48	110.76
1	H	336	TRP	CB-CA-C	5.51	117.48	110.76
1	N	336	TRP	CB-CA-C	5.51	117.48	110.76
1	Y	336	TRP	CB-CA-C	5.51	117.48	110.76
1	O	336	TRP	CB-CA-C	5.50	117.47	110.76
1	Z	336	TRP	CB-CA-C	5.50	117.47	110.76
1	C	336	TRP	CB-CA-C	5.49	117.46	110.76
1	f	503	ASN	N-CA-C	5.21	119.64	113.28
1	Z	503	ASN	N-CA-C	5.21	119.64	113.28
1	5	503	ASN	N-CA-C	5.21	119.63	113.28
1	P	503	ASN	N-CA-C	5.20	119.62	113.28
1	k	503	ASN	N-CA-C	5.20	119.62	113.28
1	m	503	ASN	N-CA-C	5.19	119.61	113.28
1	H	503	ASN	N-CA-C	5.19	119.61	113.28
1	6	503	ASN	N-CA-C	5.19	119.61	113.28
1	B	503	ASN	N-CA-C	5.19	119.61	113.28
1	R	503	ASN	N-CA-C	5.19	119.61	113.28
1	c	503	ASN	N-CA-C	5.19	119.61	113.28
1	h	503	ASN	N-CA-C	5.19	119.61	113.28
1	n	503	ASN	N-CA-C	5.19	119.61	113.28
1	3	503	ASN	N-CA-C	5.19	119.61	113.28
1	C	503	ASN	N-CA-C	5.18	119.61	113.28
1	s	503	ASN	N-CA-C	5.18	119.60	113.28
1	G	503	ASN	N-CA-C	5.18	119.59	113.28
1	q	503	ASN	N-CA-C	5.18	119.59	113.28
1	t	503	ASN	N-CA-C	5.18	119.59	113.28
1	I	503	ASN	N-CA-C	5.17	119.59	113.28
1	S	503	ASN	N-CA-C	5.17	119.59	113.28
1	A	503	ASN	N-CA-C	5.17	119.58	113.28
1	F	503	ASN	N-CA-C	5.17	119.58	113.28
1	a	503	ASN	N-CA-C	5.17	119.58	113.28
1	b	503	ASN	N-CA-C	5.17	119.58	113.28
1	d	503	ASN	N-CA-C	5.17	119.58	113.28
1	e	503	ASN	N-CA-C	5.17	119.58	113.28
1	v	503	ASN	N-CA-C	5.17	119.58	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	503	ASN	N-CA-C	5.17	119.58	113.28
1	V	503	ASN	N-CA-C	5.16	119.58	113.28
1	T	503	ASN	N-CA-C	5.16	119.58	113.28
1	i	503	ASN	N-CA-C	5.16	119.57	113.28
1	l	503	ASN	N-CA-C	5.16	119.57	113.28
1	o	503	ASN	N-CA-C	5.16	119.57	113.28
1	u	503	ASN	N-CA-C	5.16	119.57	113.28
1	E	503	ASN	N-CA-C	5.16	119.57	113.28
1	U	503	ASN	N-CA-C	5.16	119.57	113.28
1	1	503	ASN	N-CA-C	5.16	119.57	113.28
1	L	503	ASN	N-CA-C	5.15	119.57	113.28
1	z	503	ASN	N-CA-C	5.15	119.57	113.28
1	D	503	ASN	N-CA-C	5.15	119.56	113.28
1	K	503	ASN	N-CA-C	5.15	119.56	113.28
1	N	503	ASN	N-CA-C	5.15	119.56	113.28
1	Q	503	ASN	N-CA-C	5.15	119.56	113.28
1	Y	503	ASN	N-CA-C	5.15	119.56	113.28
1	g	503	ASN	N-CA-C	5.15	119.56	113.28
1	j	503	ASN	N-CA-C	5.15	119.56	113.28
1	p	503	ASN	N-CA-C	5.15	119.56	113.28
1	x	503	ASN	N-CA-C	5.15	119.56	113.28
1	4	503	ASN	N-CA-C	5.15	119.56	113.28
1	J	503	ASN	N-CA-C	5.15	119.56	113.28
1	W	503	ASN	N-CA-C	5.15	119.56	113.28
1	X	503	ASN	N-CA-C	5.15	119.56	113.28
1	r	503	ASN	N-CA-C	5.14	119.56	113.28
1	2	503	ASN	N-CA-C	5.14	119.56	113.28
1	M	503	ASN	N-CA-C	5.14	119.55	113.28
1	O	503	ASN	N-CA-C	5.14	119.55	113.28
1	8	503	ASN	N-CA-C	5.14	119.55	113.28
1	w	503	ASN	N-CA-C	5.13	119.54	113.28
1	7	503	ASN	N-CA-C	5.13	119.54	113.28
1	T	493	GLU	O-C-N	5.04	127.27	122.07
1	P	493	GLU	O-C-N	5.03	127.25	122.07
1	3	493	GLU	O-C-N	5.03	127.25	122.07
1	G	493	GLU	O-C-N	5.02	127.24	122.07
1	t	493	GLU	O-C-N	5.02	127.24	122.07
1	K	493	GLU	O-C-N	5.02	127.24	122.07
1	m	493	GLU	O-C-N	5.02	127.24	122.07
1	S	493	GLU	O-C-N	5.01	127.23	122.07
1	q	493	GLU	O-C-N	5.01	127.23	122.07
1	u	493	GLU	O-C-N	5.01	127.23	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	493	GLU	O-C-N	5.00	127.22	122.07
1	5	493	GLU	O-C-N	5.00	127.22	122.07
1	B	493	GLU	O-C-N	5.00	127.22	122.07
1	L	493	GLU	O-C-N	5.00	127.22	122.07
1	2	493	GLU	O-C-N	5.00	127.22	122.07

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	4353	0	4079	179	0
1	2	4353	0	4079	177	0
1	3	4353	0	4079	172	0
1	4	4353	0	4079	172	0
1	5	4353	0	4079	181	0
1	6	4353	0	4079	178	0
1	7	4353	0	4079	178	0
1	8	4353	0	4079	178	0
1	A	4353	0	4079	179	0
1	B	4353	0	4079	181	0
1	C	4353	0	4079	180	0
1	D	4353	0	4079	181	0
1	E	4353	0	4079	176	0
1	F	4353	0	4079	183	0
1	G	4353	0	4079	179	0
1	H	4353	0	4079	178	0
1	I	4353	0	4079	181	0
1	J	4353	0	4079	177	0
1	K	4353	0	4079	173	0
1	L	4353	0	4079	176	0
1	M	4353	0	4079	176	0
1	N	4353	0	4079	183	0
1	O	4353	0	4079	181	0
1	P	4353	0	4079	180	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	Q	4353	0	4079	184	0
1	R	4353	0	4079	183	0
1	S	4353	0	4079	185	0
1	T	4353	0	4079	181	0
1	U	4353	0	4079	182	0
1	V	4353	0	4079	181	0
1	W	4353	0	4079	182	0
1	X	4353	0	4079	183	0
1	Y	4353	0	4079	180	0
1	Z	4353	0	4079	179	0
1	a	4353	0	4079	174	0
1	b	4353	0	4079	179	0
1	c	4353	0	4079	180	0
1	d	4353	0	4079	173	0
1	e	4353	0	4079	178	0
1	f	4353	0	4079	176	0
1	g	4353	0	4079	179	0
1	h	4353	0	4079	177	0
1	i	4353	0	4079	183	0
1	j	4353	0	4079	182	0
1	k	4353	0	4079	178	0
1	l	4353	0	4079	178	0
1	m	4353	0	4079	184	0
1	n	4353	0	4079	177	0
1	o	4353	0	4079	183	0
1	p	4353	0	4079	179	0
1	q	4353	0	4079	182	0
1	r	4353	0	4079	184	0
1	s	4353	0	4079	181	0
1	t	4353	0	4079	180	0
1	u	4353	0	4079	182	0
1	v	4353	0	4079	181	0
1	w	4353	0	4079	180	0
1	x	4353	0	4079	186	0
1	y	4353	0	4079	182	0
1	z	4353	0	4079	177	0
All	All	261180	0	244740	8940	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 18.

All (8940) 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:H:495:LEU:HD12	1:H:503:ASN:HD21	1.26	1.01
1:K:495:LEU:HD12	1:K:503:ASN:HD21	1.26	1.01
1:P:495:LEU:HD12	1:P:503:ASN:HD21	1.26	1.01
1:U:495:LEU:HD12	1:U:503:ASN:HD21	1.26	1.01
1:m:495:LEU:HD12	1:m:503:ASN:HD21	1.26	1.01
1:5:495:LEU:HD12	1:5:503:ASN:HD21	1.26	1.01
1:J:495:LEU:HD12	1:J:503:ASN:HD21	1.26	1.01
1:s:495:LEU:HD12	1:s:503:ASN:HD21	1.26	1.01
1:2:495:LEU:HD12	1:2:503:ASN:HD21	1.26	1.01
1:4:495:LEU:HD12	1:4:503:ASN:HD21	1.26	1.01
1:T:495:LEU:HD12	1:T:503:ASN:HD21	1.26	1.01
1:j:495:LEU:HD12	1:j:503:ASN:HD21	1.26	1.01
1:y:495:LEU:HD12	1:y:503:ASN:HD21	1.26	1.00
1:A:495:LEU:HD12	1:A:503:ASN:HD21	1.26	1.00
1:F:495:LEU:HD12	1:F:503:ASN:HD21	1.26	1.00
1:v:495:LEU:HD12	1:v:503:ASN:HD21	1.26	1.00
1:G:495:LEU:HD12	1:G:503:ASN:HD21	1.26	1.00
1:f:495:LEU:HD12	1:f:503:ASN:HD21	1.26	1.00
1:E:495:LEU:HD12	1:E:503:ASN:HD21	1.26	1.00
1:I:495:LEU:HD12	1:I:503:ASN:HD21	1.26	1.00
1:V:495:LEU:HD12	1:V:503:ASN:HD21	1.26	1.00
1:b:495:LEU:HD12	1:b:503:ASN:HD21	1.26	1.00
1:p:495:LEU:HD12	1:p:503:ASN:HD21	1.26	1.00
1:t:495:LEU:HD12	1:t:503:ASN:HD21	1.26	1.00
1:u:495:LEU:HD12	1:u:503:ASN:HD21	1.26	1.00
1:d:495:LEU:HD12	1:d:503:ASN:HD21	1.26	1.00
1:M:495:LEU:HD12	1:M:503:ASN:HD21	1.26	0.99
1:c:495:LEU:HD12	1:c:503:ASN:HD21	1.26	0.99
1:n:495:LEU:HD12	1:n:503:ASN:HD21	1.26	0.99
1:w:495:LEU:HD12	1:w:503:ASN:HD21	1.26	0.99
1:L:495:LEU:HD12	1:L:503:ASN:HD21	1.26	0.99
1:Z:495:LEU:HD12	1:Z:503:ASN:HD21	1.26	0.99
1:r:495:LEU:HD12	1:r:503:ASN:HD21	1.26	0.99
1:8:495:LEU:HD12	1:8:503:ASN:HD21	1.26	0.99
1:S:495:LEU:HD12	1:S:503:ASN:HD21	1.26	0.99
1:k:495:LEU:HD12	1:k:503:ASN:HD21	1.26	0.99
1:h:495:LEU:HD12	1:h:503:ASN:HD21	1.26	0.99
1:C:495:LEU:HD12	1:C:503:ASN:HD21	1.26	0.99
1:D:495:LEU:HD12	1:D:503:ASN:HD21	1.26	0.99
1:e:495:LEU:HD12	1:e:503:ASN:HD21	1.26	0.99
1:z:495:LEU:HD12	1:z:503:ASN:HD21	1.26	0.99
1:g:495:LEU:HD12	1:g:503:ASN:HD21	1.26	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:495:LEU:HD12	1:W:503:ASN:HD21	1.26	0.99
1:O:495:LEU:HD12	1:O:503:ASN:HD21	1.26	0.98
1:l:495:LEU:HD12	1:l:503:ASN:HD21	1.26	0.98
1:6:495:LEU:HD12	1:6:503:ASN:HD21	1.26	0.98
1:a:495:LEU:HD12	1:a:503:ASN:HD21	1.26	0.98
1:3:495:LEU:HD12	1:3:503:ASN:HD21	1.26	0.98
1:R:154:VAL:HG22	1:R:167:TYR:CD1	1.99	0.98
1:p:154:VAL:HG22	1:p:167:TYR:CD1	1.99	0.98
1:q:154:VAL:HG22	1:q:167:TYR:CD1	1.99	0.98
1:D:154:VAL:HG22	1:D:167:TYR:CD1	1.99	0.98
1:P:154:VAL:HG22	1:P:167:TYR:CD1	1.99	0.98
1:V:154:VAL:HG22	1:V:167:TYR:CD1	1.99	0.98
1:G:154:VAL:HG22	1:G:167:TYR:CD1	1.99	0.98
1:X:154:VAL:HG22	1:X:167:TYR:CD1	1.99	0.98
1:j:154:VAL:HG22	1:j:167:TYR:CD1	1.99	0.98
1:k:154:VAL:HG22	1:k:167:TYR:CD1	1.99	0.98
1:o:154:VAL:HG22	1:o:167:TYR:CD1	1.99	0.98
1:o:495:LEU:HD12	1:o:503:ASN:HD21	1.26	0.98
1:t:154:VAL:HG22	1:t:167:TYR:CD1	1.99	0.98
1:x:154:VAL:HG22	1:x:167:TYR:CD1	1.99	0.98
1:2:154:VAL:HG22	1:2:167:TYR:CD1	1.99	0.98
1:J:154:VAL:HG22	1:J:167:TYR:CD1	1.99	0.98
1:K:154:VAL:HG22	1:K:167:TYR:CD1	1.99	0.98
1:N:495:LEU:HD12	1:N:503:ASN:HD21	1.26	0.98
1:Q:154:VAL:HG22	1:Q:167:TYR:CD1	1.99	0.98
1:Y:154:VAL:HG22	1:Y:167:TYR:CD1	1.99	0.98
1:b:154:VAL:HG22	1:b:167:TYR:CD1	1.99	0.98
1:f:154:VAL:HG22	1:f:167:TYR:CD1	1.99	0.98
1:i:495:LEU:HD12	1:i:503:ASN:HD21	1.26	0.98
1:4:154:VAL:HG22	1:4:167:TYR:CD1	1.99	0.98
1:z:154:VAL:HG22	1:z:167:TYR:CD1	1.99	0.98
1:7:154:VAL:HG22	1:7:167:TYR:CD1	1.99	0.98
1:8:154:VAL:HG22	1:8:167:TYR:CD1	1.99	0.98
1:L:154:VAL:HG22	1:L:167:TYR:CD1	1.99	0.98
1:v:154:VAL:HG22	1:v:167:TYR:CD1	1.99	0.98
1:A:154:VAL:HG22	1:A:167:TYR:CD1	1.99	0.97
1:M:154:VAL:HG22	1:M:167:TYR:CD1	1.99	0.97
1:Z:154:VAL:HG22	1:Z:167:TYR:CD1	1.99	0.97
1:I:154:VAL:HG22	1:I:167:TYR:CD1	1.99	0.97
1:X:495:LEU:HD12	1:X:503:ASN:HD21	1.26	0.97
1:a:154:VAL:HG22	1:a:167:TYR:CD1	1.99	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:154:VAL:HG22	1:u:167:TYR:CD1	1.99	0.97
1:E:154:VAL:HG22	1:E:167:TYR:CD1	1.99	0.97
1:w:154:VAL:HG22	1:w:167:TYR:CD1	1.99	0.97
1:y:154:VAL:HG22	1:y:167:TYR:CD1	1.99	0.97
1:3:154:VAL:HG22	1:3:167:TYR:CD1	1.99	0.97
1:F:154:VAL:HG22	1:F:167:TYR:CD1	1.99	0.97
1:h:154:VAL:HG22	1:h:167:TYR:CD1	1.99	0.97
1:q:495:LEU:HD12	1:q:503:ASN:HD21	1.26	0.97
1:Q:495:LEU:HD12	1:Q:503:ASN:HD21	1.26	0.97
1:s:154:VAL:HG22	1:s:167:TYR:CD1	1.99	0.97
1:U:154:VAL:HG22	1:U:167:TYR:CD1	1.99	0.97
1:x:495:LEU:HD12	1:x:503:ASN:HD21	1.26	0.97
1:C:154:VAL:HG22	1:C:167:TYR:CD1	1.99	0.97
1:H:154:VAL:HG22	1:H:167:TYR:CD1	1.99	0.97
1:g:154:VAL:HG22	1:g:167:TYR:CD1	1.99	0.96
1:R:495:LEU:HD12	1:R:503:ASN:HD21	1.26	0.96
1:S:154:VAL:HG22	1:S:167:TYR:CD1	1.99	0.96
1:c:154:VAL:HG22	1:c:167:TYR:CD1	1.99	0.96
1:5:154:VAL:HG22	1:5:167:TYR:CD1	1.99	0.96
1:T:154:VAL:HG22	1:T:167:TYR:CD1	1.99	0.96
1:m:154:VAL:HG22	1:m:167:TYR:CD1	1.99	0.96
1:r:154:VAL:HG22	1:r:167:TYR:CD1	1.99	0.96
1:6:154:VAL:HG22	1:6:167:TYR:CD1	1.99	0.96
1:W:154:VAL:HG22	1:W:167:TYR:CD1	1.99	0.96
1:e:154:VAL:HG22	1:e:167:TYR:CD1	1.99	0.96
1:i:154:VAL:HG22	1:i:167:TYR:CD1	1.99	0.96
1:1:154:VAL:HG22	1:1:167:TYR:CD1	1.99	0.96
1:N:154:VAL:HG22	1:N:167:TYR:CD1	1.99	0.96
1:d:154:VAL:HG22	1:d:167:TYR:CD1	1.99	0.96
1:B:154:VAL:HG22	1:B:167:TYR:CD1	1.99	0.96
1:1:495:LEU:HD12	1:1:503:ASN:HD21	1.26	0.96
1:7:495:LEU:HD12	1:7:503:ASN:HD21	1.26	0.96
1:B:495:LEU:HD12	1:B:503:ASN:HD21	1.26	0.96
1:l:154:VAL:HG22	1:l:167:TYR:CD1	1.99	0.96
1:n:154:VAL:HG22	1:n:167:TYR:CD1	1.99	0.96
1:O:154:VAL:HG22	1:O:167:TYR:CD1	1.99	0.96
1:Y:495:LEU:HD12	1:Y:503:ASN:HD21	1.26	0.96
1:M:113:ILE:HG23	1:M:197:LEU:HD11	1.61	0.82
1:h:113:ILE:HG23	1:h:197:LEU:HD11	1.62	0.82
1:l:113:ILE:HG23	1:l:197:LEU:HD11	1.61	0.82
1:O:113:ILE:HG23	1:O:197:LEU:HD11	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:113:ILE:HG23	1:G:197:LEU:HD11	1.62	0.82
1:W:113:ILE:HG23	1:W:197:LEU:HD11	1.61	0.82
1:f:113:ILE:HG23	1:f:197:LEU:HD11	1.61	0.82
1:r:113:ILE:HG23	1:r:197:LEU:HD11	1.62	0.82
1:t:113:ILE:HG23	1:t:197:LEU:HD11	1.62	0.82
1:6:113:ILE:HG23	1:6:197:LEU:HD11	1.61	0.82
1:S:113:ILE:HG23	1:S:197:LEU:HD11	1.61	0.82
1:U:113:ILE:HG23	1:U:197:LEU:HD11	1.62	0.82
1:b:113:ILE:HG23	1:b:197:LEU:HD11	1.61	0.82
1:5:113:ILE:HG23	1:5:197:LEU:HD11	1.61	0.82
1:T:113:ILE:HG23	1:T:197:LEU:HD11	1.61	0.82
1:s:113:ILE:HG23	1:s:197:LEU:HD11	1.62	0.82
1:H:113:ILE:HG23	1:H:197:LEU:HD11	1.62	0.82
1:m:113:ILE:HG23	1:m:197:LEU:HD11	1.62	0.82
1:c:113:ILE:HG23	1:c:197:LEU:HD11	1.61	0.81
1:K:113:ILE:HG23	1:K:197:LEU:HD11	1.62	0.81
1:e:113:ILE:HG23	1:e:197:LEU:HD11	1.61	0.81
1:4:113:ILE:HG23	1:4:197:LEU:HD11	1.61	0.81
1:X:113:ILE:HG23	1:X:197:LEU:HD11	1.61	0.81
1:Z:113:ILE:HG23	1:Z:197:LEU:HD11	1.62	0.81
1:o:113:ILE:HG23	1:o:197:LEU:HD11	1.62	0.81
1:Q:113:ILE:HG23	1:Q:197:LEU:HD11	1.61	0.81
1:w:113:ILE:HG23	1:w:197:LEU:HD11	1.62	0.81
1:8:113:ILE:HG23	1:8:197:LEU:HD11	1.62	0.81
1:E:113:ILE:HG23	1:E:197:LEU:HD11	1.62	0.81
1:L:113:ILE:HG23	1:L:197:LEU:HD11	1.61	0.81
1:V:495:LEU:HD12	1:V:503:ASN:ND2	1.96	0.81
1:B:495:LEU:HD12	1:B:503:ASN:ND2	1.96	0.81
1:x:113:ILE:HG23	1:x:197:LEU:HD11	1.62	0.81
1:1:495:LEU:HD12	1:1:503:ASN:ND2	1.96	0.81
1:p:495:LEU:HD12	1:p:503:ASN:ND2	1.96	0.81
1:w:495:LEU:HD12	1:w:503:ASN:ND2	1.96	0.81
1:z:113:ILE:HG23	1:z:197:LEU:HD11	1.61	0.81
1:B:113:ILE:HG23	1:B:197:LEU:HD11	1.61	0.81
1:E:495:LEU:HD12	1:E:503:ASN:ND2	1.96	0.81
1:I:113:ILE:HG23	1:I:197:LEU:HD11	1.61	0.81
1:V:113:ILE:HG23	1:V:197:LEU:HD11	1.61	0.81
1:1:113:ILE:HG23	1:1:197:LEU:HD11	1.61	0.81
1:j:113:ILE:HG23	1:j:197:LEU:HD11	1.62	0.81
1:u:495:LEU:HD12	1:u:503:ASN:ND2	1.96	0.81
1:p:113:ILE:HG23	1:p:197:LEU:HD11	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:113:ILE:HG23	1:F:197:LEU:HD11	1.61	0.80
1:I:495:LEU:HD12	1:I:503:ASN:ND2	1.96	0.80
1:P:113:ILE:HG23	1:P:197:LEU:HD11	1.62	0.80
1:R:495:LEU:HD12	1:R:503:ASN:ND2	1.96	0.80
1:u:113:ILE:HG23	1:u:197:LEU:HD11	1.61	0.80
1:y:113:ILE:HG23	1:y:197:LEU:HD11	1.61	0.80
1:2:113:ILE:HG23	1:2:197:LEU:HD11	1.62	0.80
1:C:113:ILE:HG23	1:C:197:LEU:HD11	1.61	0.80
1:J:113:ILE:HG23	1:J:197:LEU:HD11	1.62	0.80
1:v:113:ILE:HG23	1:v:197:LEU:HD11	1.62	0.80
1:v:495:LEU:HD12	1:v:503:ASN:ND2	1.96	0.80
1:2:495:LEU:HD12	1:2:503:ASN:ND2	1.96	0.80
1:D:495:LEU:HD12	1:D:503:ASN:ND2	1.96	0.80
1:J:495:LEU:HD12	1:J:503:ASN:ND2	1.96	0.80
1:M:495:LEU:HD12	1:M:503:ASN:ND2	1.96	0.80
1:R:113:ILE:HG23	1:R:197:LEU:HD11	1.62	0.80
1:a:113:ILE:HG23	1:a:197:LEU:HD11	1.61	0.80
1:b:495:LEU:HD12	1:b:503:ASN:ND2	1.96	0.80
1:m:495:LEU:HD12	1:m:503:ASN:ND2	1.96	0.80
1:q:113:ILE:HG23	1:q:197:LEU:HD11	1.61	0.80
1:q:495:LEU:HD12	1:q:503:ASN:ND2	1.96	0.80
1:A:113:ILE:HG23	1:A:197:LEU:HD11	1.61	0.80
1:A:495:LEU:HD12	1:A:503:ASN:ND2	1.96	0.80
1:T:495:LEU:HD12	1:T:503:ASN:ND2	1.96	0.80
1:g:113:ILE:HG23	1:g:197:LEU:HD11	1.61	0.80
1:7:113:ILE:HG23	1:7:197:LEU:HD11	1.61	0.80
1:Y:113:ILE:HG23	1:Y:197:LEU:HD11	1.61	0.80
1:Z:495:LEU:HD12	1:Z:503:ASN:ND2	1.96	0.80
1:f:495:LEU:HD12	1:f:503:ASN:ND2	1.96	0.80
1:h:495:LEU:HD12	1:h:503:ASN:ND2	1.96	0.80
1:K:495:LEU:HD12	1:K:503:ASN:ND2	1.96	0.80
1:L:495:LEU:HD12	1:L:503:ASN:ND2	1.96	0.80
1:W:495:LEU:HD12	1:W:503:ASN:ND2	1.96	0.80
1:k:495:LEU:HD12	1:k:503:ASN:ND2	1.96	0.80
1:6:495:LEU:HD12	1:6:503:ASN:ND2	1.96	0.80
1:8:495:LEU:HD12	1:8:503:ASN:ND2	1.96	0.80
1:G:495:LEU:HD12	1:G:503:ASN:ND2	1.96	0.80
1:l:495:LEU:HD12	1:l:503:ASN:ND2	1.96	0.80
1:3:113:ILE:HG23	1:3:197:LEU:HD11	1.62	0.80
1:N:495:LEU:HD12	1:N:503:ASN:ND2	1.96	0.80
1:n:113:ILE:HG23	1:n:197:LEU:HD11	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:495:LEU:HD12	1:z:503:ASN:ND2	1.96	0.80
1:4:495:LEU:HD12	1:4:503:ASN:ND2	1.96	0.80
1:H:495:LEU:HD12	1:H:503:ASN:ND2	1.96	0.80
1:O:495:LEU:HD12	1:O:503:ASN:ND2	1.96	0.80
1:D:113:ILE:HG23	1:D:197:LEU:HD11	1.62	0.79
1:c:495:LEU:HD12	1:c:503:ASN:ND2	1.96	0.79
1:d:113:ILE:HG23	1:d:197:LEU:HD11	1.61	0.79
1:e:495:LEU:HD12	1:e:503:ASN:ND2	1.96	0.79
1:i:495:LEU:HD12	1:i:503:ASN:ND2	1.96	0.79
1:t:495:LEU:HD12	1:t:503:ASN:ND2	1.96	0.79
1:N:113:ILE:HG23	1:N:197:LEU:HD11	1.61	0.79
1:i:113:ILE:HG23	1:i:197:LEU:HD11	1.62	0.79
1:5:495:LEU:HD12	1:5:503:ASN:ND2	1.96	0.79
1:J:154:VAL:HG22	1:J:167:TYR:HD1	1.47	0.79
1:d:495:LEU:HD12	1:d:503:ASN:ND2	1.96	0.79
1:j:495:LEU:HD12	1:j:503:ASN:ND2	1.96	0.79
1:k:113:ILE:HG23	1:k:197:LEU:HD11	1.62	0.79
1:P:495:LEU:HD12	1:P:503:ASN:ND2	1.96	0.79
1:X:154:VAL:HG22	1:X:167:TYR:HD1	1.47	0.79
1:d:154:VAL:HG22	1:d:167:TYR:HD1	1.48	0.79
1:n:154:VAL:HG22	1:n:167:TYR:HD1	1.48	0.79
1:n:495:LEU:HD12	1:n:503:ASN:ND2	1.96	0.79
1:x:495:LEU:HD12	1:x:503:ASN:ND2	1.96	0.79
1:2:154:VAL:HG22	1:2:167:TYR:HD1	1.48	0.79
1:Q:495:LEU:HD12	1:Q:503:ASN:ND2	1.96	0.79
1:o:154:VAL:HG22	1:o:167:TYR:HD1	1.47	0.79
1:s:495:LEU:HD12	1:s:503:ASN:ND2	1.96	0.79
1:F:154:VAL:HG22	1:F:167:TYR:HD1	1.48	0.79
1:U:495:LEU:HD12	1:U:503:ASN:ND2	1.96	0.79
1:y:154:VAL:HG22	1:y:167:TYR:HD1	1.48	0.79
1:F:495:LEU:HD12	1:F:503:ASN:ND2	1.96	0.79
1:M:154:VAL:HG22	1:M:167:TYR:HD1	1.47	0.79
1:Y:495:LEU:HD12	1:Y:503:ASN:ND2	1.96	0.79
1:y:495:LEU:HD12	1:y:503:ASN:ND2	1.96	0.79
1:3:495:LEU:HD12	1:3:503:ASN:ND2	1.96	0.79
1:a:495:LEU:HD12	1:a:503:ASN:ND2	1.96	0.79
1:R:154:VAL:HG22	1:R:167:TYR:HD1	1.48	0.78
1:X:495:LEU:HD12	1:X:503:ASN:ND2	1.96	0.78
1:h:154:VAL:HG22	1:h:167:TYR:HD1	1.48	0.78
1:w:154:VAL:HG22	1:w:167:TYR:HD1	1.47	0.78
1:7:495:LEU:HD12	1:7:503:ASN:ND2	1.96	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:495:LEU:HD12	1:S:503:ASN:ND2	1.96	0.78
1:W:154:VAL:HG22	1:W:167:TYR:HD1	1.47	0.78
1:o:495:LEU:HD12	1:o:503:ASN:ND2	1.96	0.78
1:q:154:VAL:HG22	1:q:167:TYR:HD1	1.47	0.78
1:S:154:VAL:HG22	1:S:167:TYR:HD1	1.48	0.78
1:r:154:VAL:HG22	1:r:167:TYR:HD1	1.48	0.78
1:r:495:LEU:HD12	1:r:503:ASN:ND2	1.96	0.78
1:E:154:VAL:HG22	1:E:167:TYR:HD1	1.47	0.78
1:b:154:VAL:HG22	1:b:167:TYR:HD1	1.48	0.78
1:6:154:VAL:HG22	1:6:167:TYR:HD1	1.48	0.78
1:f:154:VAL:HG22	1:f:167:TYR:HD1	1.48	0.78
1:g:495:LEU:HD12	1:g:503:ASN:ND2	1.96	0.78
1:5:154:VAL:HG22	1:5:167:TYR:HD1	1.48	0.78
1:C:495:LEU:HD12	1:C:503:ASN:ND2	1.96	0.78
1:H:154:VAL:HG22	1:H:167:TYR:HD1	1.47	0.78
1:p:154:VAL:HG22	1:p:167:TYR:HD1	1.48	0.78
1:1:154:VAL:HG22	1:1:167:TYR:HD1	1.47	0.78
1:V:154:VAL:HG22	1:V:167:TYR:HD1	1.48	0.77
1:C:416:ASN:OD1	1:b:371:GLN:NE2	2.17	0.77
1:i:154:VAL:HG22	1:i:167:TYR:HD1	1.47	0.77
1:D:154:VAL:HG22	1:D:167:TYR:HD1	1.47	0.77
1:K:154:VAL:HG22	1:K:167:TYR:HD1	1.47	0.77
1:B:154:VAL:HG22	1:B:167:TYR:HD1	1.47	0.77
1:N:154:VAL:HG22	1:N:167:TYR:HD1	1.47	0.77
1:N:495:LEU:CD1	1:N:503:ASN:HD21	1.98	0.77
1:d:495:LEU:CD1	1:d:503:ASN:HD21	1.98	0.77
1:i:495:LEU:CD1	1:i:503:ASN:HD21	1.98	0.77
1:n:495:LEU:CD1	1:n:503:ASN:HD21	1.98	0.77
1:L:154:VAL:HG22	1:L:167:TYR:HD1	1.48	0.77
1:P:154:VAL:HG22	1:P:167:TYR:HD1	1.48	0.77
1:z:154:VAL:HG22	1:z:167:TYR:HD1	1.48	0.77
1:4:154:VAL:HG22	1:4:167:TYR:HD1	1.47	0.77
1:G:495:LEU:CD1	1:G:503:ASN:HD21	1.98	0.77
1:k:154:VAL:HG22	1:k:167:TYR:HD1	1.48	0.77
1:t:495:LEU:CD1	1:t:503:ASN:HD21	1.98	0.77
1:v:154:VAL:HG22	1:v:167:TYR:HD1	1.48	0.77
1:H:495:LEU:CD1	1:H:503:ASN:HD21	1.98	0.77
1:j:154:VAL:HG22	1:j:167:TYR:HD1	1.48	0.77
1:4:495:LEU:CD1	1:4:503:ASN:HD21	1.98	0.77
1:5:495:LEU:CD1	1:5:503:ASN:HD21	1.98	0.77
1:J:495:LEU:CD1	1:J:503:ASN:HD21	1.98	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:495:LEU:CD1	1:K:503:ASN:HD21	1.98	0.77
1:Z:154:VAL:HG22	1:Z:167:TYR:HD1	1.48	0.77
1:g:154:VAL:HG22	1:g:167:TYR:HD1	1.48	0.77
1:2:495:LEU:CD1	1:2:503:ASN:HD21	1.98	0.77
1:V:495:LEU:CD1	1:V:503:ASN:HD21	1.98	0.76
1:7:495:LEU:CD1	1:7:503:ASN:HD21	1.98	0.76
1:A:154:VAL:HG22	1:A:167:TYR:HD1	1.48	0.76
1:T:495:LEU:CD1	1:T:503:ASN:HD21	1.98	0.76
1:Y:495:LEU:CD1	1:Y:503:ASN:HD21	1.98	0.76
1:a:154:VAL:HG22	1:a:167:TYR:HD1	1.48	0.76
1:m:154:VAL:HG22	1:m:167:TYR:HD1	1.48	0.76
1:p:495:LEU:CD1	1:p:503:ASN:HD21	1.98	0.76
1:q:495:LEU:CD1	1:q:503:ASN:HD21	1.98	0.76
1:w:495:LEU:CD1	1:w:503:ASN:HD21	1.98	0.76
1:3:154:VAL:HG22	1:3:167:TYR:HD1	1.48	0.76
1:8:154:VAL:HG22	1:8:167:TYR:HD1	1.48	0.76
1:E:495:LEU:CD1	1:E:503:ASN:HD21	1.98	0.76
1:G:154:VAL:HG22	1:G:167:TYR:HD1	1.48	0.76
1:R:495:LEU:CD1	1:R:503:ASN:HD21	1.98	0.76
1:v:495:LEU:CD1	1:v:503:ASN:HD21	1.98	0.76
1:C:154:VAL:HG22	1:C:167:TYR:HD1	1.48	0.76
1:T:154:VAL:HG22	1:T:167:TYR:HD1	1.48	0.76
1:u:154:VAL:HG22	1:u:167:TYR:HD1	1.48	0.76
1:A:495:LEU:CD1	1:A:503:ASN:HD21	1.98	0.76
1:L:495:LEU:CD1	1:L:503:ASN:HD21	1.98	0.76
1:z:495:LEU:CD1	1:z:503:ASN:HD21	1.98	0.76
1:I:154:VAL:HG22	1:I:167:TYR:HD1	1.47	0.76
1:t:154:VAL:HG22	1:t:167:TYR:HD1	1.48	0.76
1:a:495:LEU:CD1	1:a:503:ASN:HD21	1.98	0.76
1:b:495:LEU:CD1	1:b:503:ASN:HD21	1.98	0.76
1:M:495:LEU:CD1	1:M:503:ASN:HD21	1.98	0.76
1:S:495:LEU:CD1	1:S:503:ASN:HD21	1.98	0.76
1:Z:495:LEU:CD1	1:Z:503:ASN:HD21	1.98	0.76
1:f:495:LEU:CD1	1:f:503:ASN:HD21	1.98	0.76
1:h:495:LEU:CD1	1:h:503:ASN:HD21	1.98	0.76
1:l:495:LEU:CD1	1:l:503:ASN:HD21	1.98	0.76
1:r:495:LEU:CD1	1:r:503:ASN:HD21	1.98	0.76
1:1:495:LEU:CD1	1:1:503:ASN:HD21	1.98	0.76
1:O:495:LEU:CD1	1:O:503:ASN:HD21	1.98	0.75
1:3:495:LEU:CD1	1:3:503:ASN:HD21	1.98	0.75
1:B:495:LEU:CD1	1:B:503:ASN:HD21	1.98	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:495:LEU:CD1	1:F:503:ASN:HD21	1.98	0.75
1:I:495:LEU:CD1	1:I:503:ASN:HD21	1.98	0.75
1:u:495:LEU:CD1	1:u:503:ASN:HD21	1.98	0.75
1:8:495:LEU:CD1	1:8:503:ASN:HD21	1.98	0.75
1:P:495:LEU:CD1	1:P:503:ASN:HD21	1.98	0.75
1:Y:154:VAL:HG22	1:Y:167:TYR:HD1	1.47	0.75
1:j:495:LEU:CD1	1:j:503:ASN:HD21	1.98	0.75
1:C:495:LEU:CD1	1:C:503:ASN:HD21	1.98	0.75
1:y:495:LEU:CD1	1:y:503:ASN:HD21	1.98	0.75
1:g:495:LEU:CD1	1:g:503:ASN:HD21	1.98	0.75
1:7:154:VAL:HG22	1:7:167:TYR:HD1	1.48	0.75
1:x:154:VAL:HG22	1:x:167:TYR:HD1	1.47	0.75
1:D:495:LEU:CD1	1:D:503:ASN:HD21	1.98	0.75
1:e:495:LEU:CD1	1:e:503:ASN:HD21	1.98	0.75
1:m:108:THR:HG22	1:m:110:TRP:H	1.52	0.75
1:V:108:THR:HG22	1:V:110:TRP:H	1.52	0.75
1:c:495:LEU:CD1	1:c:503:ASN:HD21	1.98	0.75
1:p:108:THR:HG22	1:p:110:TRP:H	1.52	0.75
1:s:495:LEU:CD1	1:s:503:ASN:HD21	1.98	0.75
1:6:495:LEU:CD1	1:6:503:ASN:HD21	1.98	0.75
1:O:154:VAL:HG22	1:O:167:TYR:HD1	1.48	0.74
1:Q:154:VAL:HG22	1:Q:167:TYR:HD1	1.48	0.74
1:T:108:THR:HG22	1:T:110:TRP:H	1.52	0.74
1:W:495:LEU:CD1	1:W:503:ASN:HD21	1.98	0.74
1:k:495:LEU:CD1	1:k:503:ASN:HD21	1.98	0.74
1:o:495:LEU:CD1	1:o:503:ASN:HD21	1.98	0.74
1:U:495:LEU:CD1	1:U:503:ASN:HD21	1.98	0.74
1:V:132:THR:HG22	1:V:535:PRO:HD2	1.70	0.74
1:p:132:THR:HG22	1:p:535:PRO:HD2	1.70	0.74
1:H:132:THR:HG22	1:H:535:PRO:HD2	1.69	0.74
1:K:108:THR:HG22	1:K:110:TRP:H	1.52	0.74
1:l:154:VAL:HG22	1:l:167:TYR:HD1	1.47	0.74
1:L:132:THR:HG22	1:L:535:PRO:HD2	1.70	0.74
1:X:495:LEU:CD1	1:X:503:ASN:HD21	1.98	0.74
1:g:108:THR:HG22	1:g:110:TRP:H	1.52	0.74
1:z:132:THR:HG22	1:z:535:PRO:HD2	1.70	0.74
1:5:132:THR:HG22	1:5:535:PRO:HD2	1.70	0.74
1:C:108:THR:HG22	1:C:110:TRP:H	1.52	0.74
1:I:132:THR:HG22	1:I:535:PRO:HD2	1.70	0.74
1:N:108:THR:HG22	1:N:110:TRP:H	1.52	0.74
1:6:132:THR:HG22	1:6:535:PRO:HD2	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:108:THR:HG22	1:G:110:TRP:H	1.52	0.74
1:H:108:THR:HG22	1:H:110:TRP:H	1.52	0.74
1:Y:108:THR:HG22	1:Y:110:TRP:H	1.52	0.74
1:Z:132:THR:HG22	1:Z:535:PRO:HD2	1.69	0.74
1:u:132:THR:HG22	1:u:535:PRO:HD2	1.70	0.74
1:2:132:THR:HG22	1:2:535:PRO:HD2	1.70	0.74
1:4:108:THR:HG22	1:4:110:TRP:H	1.52	0.74
1:5:108:THR:HG22	1:5:110:TRP:H	1.52	0.74
1:7:108:THR:HG22	1:7:110:TRP:H	1.52	0.74
1:8:132:THR:HG22	1:8:535:PRO:HD2	1.70	0.74
1:A:108:THR:HG22	1:A:110:TRP:H	1.52	0.74
1:J:132:THR:HG22	1:J:535:PRO:HD2	1.69	0.74
1:Q:495:LEU:CD1	1:Q:503:ASN:HD21	1.98	0.74
1:U:132:THR:HG22	1:U:535:PRO:HD2	1.70	0.74
1:W:132:THR:HG22	1:W:535:PRO:HD2	1.70	0.74
1:i:108:THR:HG22	1:i:110:TRP:H	1.52	0.74
1:n:132:THR:HG22	1:n:535:PRO:HD2	1.70	0.74
1:v:108:THR:HG22	1:v:110:TRP:H	1.52	0.74
1:x:495:LEU:CD1	1:x:503:ASN:HD21	1.98	0.74
1:3:108:THR:HG22	1:3:110:TRP:H	1.52	0.74
1:E:132:THR:HG22	1:E:535:PRO:HD2	1.70	0.74
1:t:108:THR:HG22	1:t:110:TRP:H	1.52	0.74
1:w:132:THR:HG22	1:w:535:PRO:HD2	1.70	0.74
1:R:108:THR:HG22	1:R:110:TRP:H	1.52	0.74
1:a:108:THR:HG22	1:a:110:TRP:H	1.52	0.74
1:d:132:THR:HG22	1:d:535:PRO:HD2	1.70	0.74
1:j:108:THR:HG22	1:j:110:TRP:H	1.52	0.74
1:s:132:THR:HG22	1:s:535:PRO:HD2	1.70	0.74
1:s:154:VAL:HG22	1:s:167:TYR:HD1	1.48	0.74
1:E:108:THR:HG22	1:E:110:TRP:H	1.52	0.74
1:P:108:THR:HG22	1:P:110:TRP:H	1.52	0.74
1:c:108:THR:HG22	1:c:110:TRP:H	1.52	0.74
1:q:108:THR:HG22	1:q:110:TRP:H	1.52	0.74
1:s:108:THR:HG22	1:s:110:TRP:H	1.52	0.74
1:w:108:THR:HG22	1:w:110:TRP:H	1.52	0.74
1:U:108:THR:HG22	1:U:110:TRP:H	1.52	0.73
1:e:108:THR:HG22	1:e:110:TRP:H	1.52	0.73
1:t:132:THR:HG22	1:t:535:PRO:HD2	1.70	0.73
1:4:132:THR:HG22	1:4:535:PRO:HD2	1.70	0.73
1:G:132:THR:HG22	1:G:535:PRO:HD2	1.70	0.73
1:K:132:THR:HG22	1:K:535:PRO:HD2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:108:THR:HG22	1:Q:110:TRP:H	1.52	0.73
1:U:154:VAL:HG22	1:U:167:TYR:HD1	1.48	0.73
1:J:108:THR:HG22	1:J:110:TRP:H	1.52	0.73
1:R:132:THR:HG22	1:R:535:PRO:HD2	1.70	0.73
1:d:108:THR:HG22	1:d:110:TRP:H	1.52	0.73
1:m:132:THR:HG22	1:m:535:PRO:HD2	1.70	0.73
1:n:108:THR:HG22	1:n:110:TRP:H	1.52	0.73
1:q:132:THR:HG22	1:q:535:PRO:HD2	1.70	0.73
1:2:108:THR:HG22	1:2:110:TRP:H	1.52	0.73
1:L:108:THR:HG22	1:L:110:TRP:H	1.52	0.73
1:T:132:THR:HG22	1:T:535:PRO:HD2	1.70	0.73
1:W:108:THR:HG22	1:W:110:TRP:H	1.52	0.73
1:f:108:THR:HG22	1:f:110:TRP:H	1.52	0.73
1:m:495:LEU:CD1	1:m:503:ASN:HD21	1.98	0.73
1:6:108:THR:HG22	1:6:110:TRP:H	1.52	0.73
1:I:108:THR:HG22	1:I:110:TRP:H	1.52	0.73
1:Q:132:THR:HG22	1:Q:535:PRO:HD2	1.70	0.73
1:f:132:THR:HG22	1:f:535:PRO:HD2	1.70	0.73
1:o:132:THR:HG22	1:o:535:PRO:HD2	1.70	0.73
1:x:132:THR:HG22	1:x:535:PRO:HD2	1.70	0.73
1:X:132:THR:HG22	1:X:535:PRO:HD2	1.70	0.73
1:b:108:THR:HG22	1:b:110:TRP:H	1.52	0.73
1:o:108:THR:HG22	1:o:110:TRP:H	1.52	0.73
1:r:108:THR:HG22	1:r:110:TRP:H	1.52	0.73
1:z:108:THR:HG22	1:z:110:TRP:H	1.52	0.73
1:1:108:THR:HG22	1:1:110:TRP:H	1.52	0.73
1:M:132:THR:HG22	1:M:535:PRO:HD2	1.70	0.73
1:S:108:THR:HG22	1:S:110:TRP:H	1.52	0.73
1:X:108:THR:HG22	1:X:110:TRP:H	1.52	0.73
1:g:132:THR:HG22	1:g:535:PRO:HD2	1.70	0.73
1:h:132:THR:HG22	1:h:535:PRO:HD2	1.70	0.73
1:k:132:THR:HG22	1:k:535:PRO:HD2	1.70	0.73
1:u:108:THR:HG22	1:u:110:TRP:H	1.52	0.73
1:x:108:THR:HG22	1:x:110:TRP:H	1.52	0.73
1:B:108:THR:HG22	1:B:110:TRP:H	1.52	0.73
1:C:132:THR:HG22	1:C:535:PRO:HD2	1.70	0.73
1:D:132:THR:HG22	1:D:535:PRO:HD2	1.70	0.73
1:b:132:THR:HG22	1:b:535:PRO:HD2	1.70	0.73
1:c:154:VAL:HG22	1:c:167:TYR:HD1	1.48	0.73
1:v:132:THR:HG22	1:v:535:PRO:HD2	1.70	0.73
1:3:132:THR:HG22	1:3:535:PRO:HD2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:132:THR:HG22	1:j:535:PRO:HD2	1.70	0.73
1:A:132:THR:HG22	1:A:535:PRO:HD2	1.70	0.72
1:O:108:THR:HG22	1:O:110:TRP:H	1.52	0.72
1:a:132:THR:HG22	1:a:535:PRO:HD2	1.70	0.72
1:7:132:THR:HG22	1:7:535:PRO:HD2	1.70	0.72
1:B:132:THR:HG22	1:B:535:PRO:HD2	1.69	0.72
1:P:132:THR:HG22	1:P:535:PRO:HD2	1.70	0.72
1:l:108:THR:HG22	1:l:110:TRP:H	1.52	0.72
1:1:132:THR:HG22	1:1:535:PRO:HD2	1.70	0.72
1:N:132:THR:HG22	1:N:535:PRO:HD2	1.70	0.72
1:O:132:THR:HG22	1:O:535:PRO:HD2	1.70	0.72
1:e:154:VAL:HG22	1:e:167:TYR:HD1	1.47	0.72
1:i:132:THR:HG22	1:i:535:PRO:HD2	1.69	0.72
1:l:132:THR:HG22	1:l:535:PRO:HD2	1.70	0.72
1:r:132:THR:HG22	1:r:535:PRO:HD2	1.69	0.72
1:Y:132:THR:HG22	1:Y:535:PRO:HD2	1.70	0.72
1:Z:371:GLN:NE2	1:3:416:ASN:OD1	2.23	0.72
1:f:416:ASN:OD1	1:h:371:GLN:NE2	2.23	0.72
1:x:416:ASN:OD1	1:y:371:GLN:NE2	2.22	0.72
1:y:108:THR:HG22	1:y:110:TRP:H	1.52	0.72
1:S:132:THR:HG22	1:S:535:PRO:HD2	1.70	0.72
1:T:371:GLN:NE2	1:l:416:ASN:OD1	2.23	0.72
1:Z:108:THR:HG22	1:Z:110:TRP:H	1.52	0.72
1:a:416:ASN:OD1	1:8:371:GLN:NE2	2.23	0.72
1:c:132:THR:HG22	1:c:535:PRO:HD2	1.70	0.72
1:t:371:GLN:NE2	1:v:416:ASN:OD1	2.23	0.72
1:8:108:THR:HG22	1:8:110:TRP:H	1.52	0.72
1:F:108:THR:HG22	1:F:110:TRP:H	1.52	0.72
1:F:371:GLN:NE2	1:Q:416:ASN:OD1	2.22	0.72
1:M:371:GLN:NE2	1:b:416:ASN:OD1	2.23	0.72
1:y:132:THR:HG22	1:y:535:PRO:HD2	1.70	0.72
1:A:416:ASN:OD1	1:G:371:GLN:NE2	2.23	0.72
1:D:416:ASN:OD1	1:N:371:GLN:NE2	2.23	0.72
1:F:132:THR:HG22	1:F:535:PRO:HD2	1.70	0.72
1:M:108:THR:HG22	1:M:110:TRP:H	1.52	0.72
1:O:416:ASN:OD1	1:m:371:GLN:NE2	2.23	0.72
1:e:132:THR:HG22	1:e:535:PRO:HD2	1.70	0.72
1:h:108:THR:HG22	1:h:110:TRP:H	1.52	0.72
1:A:371:GLN:NE2	1:I:416:ASN:OD1	2.22	0.72
1:H:237:GLU:OE2	1:H:239:ARG:NH1	2.23	0.72
1:O:371:GLN:NE2	1:n:416:ASN:OD1	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:416:ASN:OD1	1:U:371:GLN:NE2	2.23	0.72
1:W:416:ASN:OD1	1:Y:371:GLN:NE2	2.23	0.72
1:b:237:GLU:OE2	1:b:239:ARG:NH1	2.23	0.72
1:f:237:GLU:OE2	1:f:239:ARG:NH1	2.23	0.72
1:j:416:ASN:OD1	1:k:371:GLN:NE2	2.23	0.72
1:D:371:GLN:NE2	1:P:416:ASN:OD1	2.23	0.72
1:H:416:ASN:OD1	1:W:371:GLN:NE2	2.23	0.72
1:M:237:GLU:OE2	1:M:239:ARG:NH1	2.23	0.72
1:N:237:GLU:OE2	1:N:239:ARG:NH1	2.23	0.72
1:U:237:GLU:OE2	1:U:239:ARG:NH1	2.23	0.72
1:X:371:GLN:NE2	1:e:416:ASN:OD1	2.23	0.72
1:h:237:GLU:OE2	1:h:239:ARG:NH1	2.23	0.72
1:i:237:GLU:OE2	1:i:239:ARG:NH1	2.23	0.72
1:i:371:GLN:NE2	1:k:416:ASN:OD1	2.23	0.72
1:r:416:ASN:OD1	1:s:371:GLN:NE2	2.23	0.72
1:s:237:GLU:OE2	1:s:239:ARG:NH1	2.23	0.72
1:1:237:GLU:OE2	1:1:239:ARG:NH1	2.23	0.72
1:3:371:GLN:NE2	1:4:416:ASN:OD1	2.23	0.72
1:5:237:GLU:OE2	1:5:239:ARG:NH1	2.23	0.72
1:5:416:ASN:OD1	1:6:371:GLN:NE2	2.23	0.72
1:6:416:ASN:OD1	1:7:371:GLN:NE2	2.23	0.72
1:B:237:GLU:OE2	1:B:239:ARG:NH1	2.23	0.72
1:G:237:GLU:OE2	1:G:239:ARG:NH1	2.23	0.72
1:K:416:ASN:OD1	1:a:371:GLN:NE2	2.23	0.72
1:c:416:ASN:OD1	1:o:371:GLN:NE2	2.23	0.72
1:t:237:GLU:OE2	1:t:239:ARG:NH1	2.23	0.72
1:w:371:GLN:NE2	1:y:416:ASN:OD1	2.23	0.72
1:z:416:ASN:OD1	1:1:371:GLN:NE2	2.23	0.72
1:B:371:GLN:NE2	1:L:416:ASN:OD1	2.23	0.71
1:P:237:GLU:OE2	1:P:239:ARG:NH1	2.23	0.71
1:V:283:SER:HB3	1:V:403:GLY:HA2	1.72	0.71
1:Z:237:GLU:OE2	1:Z:239:ARG:NH1	2.23	0.71
1:c:283:SER:HB3	1:c:403:GLY:HA2	1.72	0.71
1:i:416:ASN:OD1	1:j:371:GLN:NE2	2.23	0.71
1:8:237:GLU:OE2	1:8:239:ARG:NH1	2.23	0.71
1:E:371:GLN:NE2	1:F:416:ASN:OD1	2.23	0.71
1:K:283:SER:HB3	1:K:403:GLY:HA2	1.72	0.71
1:N:416:ASN:OD1	1:P:371:GLN:NE2	2.23	0.71
1:O:237:GLU:OE2	1:O:239:ARG:NH1	2.23	0.71
1:R:283:SER:HB3	1:R:403:GLY:HA2	1.72	0.71
1:T:237:GLU:OE2	1:T:239:ARG:NH1	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:237:GLU:OE2	1:W:239:ARG:NH1	2.23	0.71
1:a:237:GLU:OE2	1:a:239:ARG:NH1	2.23	0.71
1:d:416:ASN:OD1	1:l:371:GLN:NE2	2.23	0.71
1:e:283:SER:HB3	1:e:403:GLY:HA2	1.72	0.71
1:j:237:GLU:OE2	1:j:239:ARG:NH1	2.23	0.71
1:p:283:SER:HB3	1:p:403:GLY:HA2	1.72	0.71
1:4:283:SER:HB3	1:4:403:GLY:HA2	1.72	0.71
1:D:108:THR:HG22	1:D:110:TRP:H	1.52	0.71
1:L:283:SER:HB3	1:L:403:GLY:HA2	1.72	0.71
1:W:283:SER:HB3	1:W:403:GLY:HA2	1.72	0.71
1:X:237:GLU:OE2	1:X:239:ARG:NH1	2.23	0.71
1:b:283:SER:HB3	1:b:403:GLY:HA2	1.72	0.71
1:k:108:THR:HG22	1:k:110:TRP:H	1.52	0.71
1:l:237:GLU:OE2	1:l:239:ARG:NH1	2.23	0.71
1:m:237:GLU:OE2	1:m:239:ARG:NH1	2.23	0.71
1:q:283:SER:HB3	1:q:403:GLY:HA2	1.72	0.71
1:z:283:SER:HB3	1:z:403:GLY:HA2	1.72	0.71
1:3:237:GLU:OE2	1:3:239:ARG:NH1	2.23	0.71
1:6:237:GLU:OE2	1:6:239:ARG:NH1	2.23	0.71
1:8:283:SER:HB3	1:8:403:GLY:HA2	1.72	0.71
1:B:283:SER:HB3	1:B:403:GLY:HA2	1.72	0.71
1:D:237:GLU:OE2	1:D:239:ARG:NH1	2.23	0.71
1:D:283:SER:HB3	1:D:403:GLY:HA2	1.72	0.71
1:Z:283:SER:HB3	1:Z:403:GLY:HA2	1.73	0.71
1:f:283:SER:HB3	1:f:403:GLY:HA2	1.72	0.71
1:k:237:GLU:OE2	1:k:239:ARG:NH1	2.23	0.71
1:k:283:SER:HB3	1:k:403:GLY:HA2	1.73	0.71
1:o:237:GLU:OE2	1:o:239:ARG:NH1	2.23	0.71
1:o:416:ASN:OD1	1:p:371:GLN:NE2	2.23	0.71
1:1:283:SER:HB3	1:1:403:GLY:HA2	1.72	0.71
1:5:371:GLN:NE2	1:7:416:ASN:OD1	2.23	0.71
1:6:283:SER:HB3	1:6:403:GLY:HA2	1.72	0.71
1:7:283:SER:HB3	1:7:403:GLY:HA2	1.72	0.71
1:A:237:GLU:OE2	1:A:239:ARG:NH1	2.23	0.71
1:A:283:SER:HB3	1:A:403:GLY:HA2	1.72	0.71
1:E:283:SER:HB3	1:E:403:GLY:HA2	1.73	0.71
1:H:371:GLN:NE2	1:Y:416:ASN:OD1	2.23	0.71
1:Y:237:GLU:OE2	1:Y:239:ARG:NH1	2.23	0.71
1:Y:283:SER:HB3	1:Y:403:GLY:HA2	1.73	0.71
1:u:416:ASN:OD1	1:v:371:GLN:NE2	2.23	0.71
1:w:283:SER:HB3	1:w:403:GLY:HA2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:237:GLU:OE2	1:7:239:ARG:NH1	2.23	0.71
1:R:371:GLN:NE2	1:U:416:ASN:OD1	2.23	0.71
1:R:416:ASN:OD1	1:S:371:GLN:NE2	2.23	0.71
1:V:371:GLN:NE2	1:X:416:ASN:OD1	2.23	0.71
1:d:283:SER:HB3	1:d:403:GLY:HA2	1.72	0.71
1:f:371:GLN:NE2	1:g:416:ASN:OD1	2.23	0.71
1:n:237:GLU:OE2	1:n:239:ARG:NH1	2.23	0.71
1:n:283:SER:HB3	1:n:403:GLY:HA2	1.72	0.71
1:q:371:GLN:NE2	1:s:416:ASN:OD1	2.23	0.71
1:q:416:ASN:OD1	1:r:371:GLN:NE2	2.23	0.71
1:v:237:GLU:OE2	1:v:239:ARG:NH1	2.23	0.71
1:w:237:GLU:OE2	1:w:239:ARG:NH1	2.23	0.71
1:z:371:GLN:NE2	1:2:416:ASN:OD1	2.23	0.71
1:E:237:GLU:OE2	1:E:239:ARG:NH1	2.23	0.71
1:H:283:SER:HB3	1:H:403:GLY:HA2	1.72	0.71
1:d:237:GLU:OE2	1:d:239:ARG:NH1	2.23	0.71
1:p:237:GLU:OE2	1:p:239:ARG:NH1	2.23	0.71
1:v:283:SER:HB3	1:v:403:GLY:HA2	1.73	0.71
1:y:237:GLU:OE2	1:y:239:ARG:NH1	2.23	0.71
1:5:283:SER:HB3	1:5:403:GLY:HA2	1.72	0.71
1:J:283:SER:HB3	1:J:403:GLY:HA2	1.72	0.71
1:J:416:ASN:OD1	1:L:371:GLN:NE2	2.23	0.71
1:V:237:GLU:OE2	1:V:239:ARG:NH1	2.23	0.71
1:Z:416:ASN:OD1	1:4:371:GLN:NE2	2.23	0.71
1:z:237:GLU:OE2	1:z:239:ARG:NH1	2.23	0.71
1:C:371:GLN:NE2	1:M:416:ASN:OD1	2.23	0.71
1:F:237:GLU:OE2	1:F:239:ARG:NH1	2.23	0.71
1:L:237:GLU:OE2	1:L:239:ARG:NH1	2.23	0.71
1:S:237:GLU:OE2	1:S:239:ARG:NH1	2.23	0.71
1:x:237:GLU:OE2	1:x:239:ARG:NH1	2.23	0.71
1:2:237:GLU:OE2	1:2:239:ARG:NH1	2.23	0.71
1:2:283:SER:HB3	1:2:403:GLY:HA2	1.72	0.71
1:J:237:GLU:OE2	1:J:239:ARG:NH1	2.23	0.71
1:c:371:GLN:NE2	1:p:416:ASN:OD1	2.23	0.71
1:m:416:ASN:OD1	1:n:371:GLN:NE2	2.23	0.71
1:q:237:GLU:OE2	1:q:239:ARG:NH1	2.23	0.71
1:t:416:ASN:OD1	1:u:371:GLN:NE2	2.24	0.71
1:I:237:GLU:OE2	1:I:239:ARG:NH1	2.23	0.70
1:K:371:GLN:NE2	1:8:416:ASN:OD1	2.23	0.70
1:Q:237:GLU:OE2	1:Q:239:ARG:NH1	2.23	0.70
1:R:237:GLU:OE2	1:R:239:ARG:NH1	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:283:SER:HB3	1:S:403:GLY:HA2	1.72	0.70
1:c:237:GLU:OE2	1:c:239:ARG:NH1	2.23	0.70
1:e:237:GLU:OE2	1:e:239:ARG:NH1	2.23	0.70
1:l:283:SER:HB3	1:l:403:GLY:HA2	1.73	0.70
1:r:237:GLU:OE2	1:r:239:ARG:NH1	2.23	0.70
1:u:237:GLU:OE2	1:u:239:ARG:NH1	2.23	0.70
1:x:283:SER:HB3	1:x:403:GLY:HA2	1.72	0.70
1:O:283:SER:HB3	1:O:403:GLY:HA2	1.73	0.70
1:Q:283:SER:HB3	1:Q:403:GLY:HA2	1.72	0.70
1:T:416:ASN:OD1	1:d:371:GLN:NE2	2.23	0.70
1:V:416:ASN:OD1	1:e:371:GLN:NE2	2.23	0.70
1:g:371:GLN:NE2	1:h:416:ASN:OD1	2.23	0.70
1:r:283:SER:HB3	1:r:403:GLY:HA2	1.72	0.70
1:C:283:SER:HB3	1:C:403:GLY:HA2	1.72	0.70
1:I:283:SER:HB3	1:I:403:GLY:HA2	1.72	0.70
1:X:283:SER:HB3	1:X:403:GLY:HA2	1.72	0.70
1:g:283:SER:HB3	1:g:403:GLY:HA2	1.73	0.70
1:C:237:GLU:OE2	1:C:239:ARG:NH1	2.23	0.70
1:o:283:SER:HB3	1:o:403:GLY:HA2	1.73	0.70
1:1:416:ASN:OD1	1:2:371:GLN:NE2	2.23	0.70
1:3:283:SER:HB3	1:3:403:GLY:HA2	1.72	0.70
1:a:283:SER:HB3	1:a:403:GLY:HA2	1.72	0.70
1:g:237:GLU:OE2	1:g:239:ARG:NH1	2.23	0.70
1:B:416:ASN:OD1	1:J:371:GLN:NE2	2.23	0.70
1:u:283:SER:HB3	1:u:403:GLY:HA2	1.73	0.70
1:4:237:GLU:OE2	1:4:239:ARG:NH1	2.23	0.70
1:K:237:GLU:OE2	1:K:239:ARG:NH1	2.23	0.70
1:i:283:SER:HB3	1:i:403:GLY:HA2	1.72	0.70
1:G:283:SER:HB3	1:G:403:GLY:HA2	1.72	0.70
1:M:283:SER:HB3	1:M:403:GLY:HA2	1.73	0.70
1:h:283:SER:HB3	1:h:403:GLY:HA2	1.73	0.70
1:t:283:SER:HB3	1:t:403:GLY:HA2	1.72	0.70
1:F:283:SER:HB3	1:F:403:GLY:HA2	1.72	0.70
1:N:283:SER:HB3	1:N:403:GLY:HA2	1.72	0.70
1:U:283:SER:HB3	1:U:403:GLY:HA2	1.72	0.70
1:G:416:ASN:OD1	1:I:371:GLN:NE2	2.25	0.69
1:P:283:SER:HB3	1:P:403:GLY:HA2	1.73	0.69
1:j:283:SER:HB3	1:j:403:GLY:HA2	1.73	0.69
1:s:283:SER:HB3	1:s:403:GLY:HA2	1.72	0.69
1:y:283:SER:HB3	1:y:403:GLY:HA2	1.72	0.69
1:T:283:SER:HB3	1:T:403:GLY:HA2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:82:ARG:HD3	1:S:102:TYR:HB2	1.75	0.69
1:c:275:THR:HG21	1:c:472:PRO:HB2	1.75	0.69
1:m:283:SER:HB3	1:m:403:GLY:HA2	1.72	0.69
1:B:275:THR:HG21	1:B:472:PRO:HB2	1.75	0.69
1:G:275:THR:HG21	1:G:472:PRO:HB2	1.75	0.69
1:H:82:ARG:HD3	1:H:102:TYR:HB2	1.75	0.69
1:I:82:ARG:HD3	1:I:102:TYR:HB2	1.75	0.69
1:K:82:ARG:HD3	1:K:102:TYR:HB2	1.75	0.69
1:e:275:THR:HG21	1:e:472:PRO:HB2	1.75	0.69
1:4:82:ARG:HD3	1:4:102:TYR:HB2	1.75	0.69
1:6:82:ARG:HD3	1:6:102:TYR:HB2	1.75	0.69
1:r:82:ARG:HD3	1:r:102:TYR:HB2	1.75	0.69
1:t:275:THR:HG21	1:t:472:PRO:HB2	1.75	0.69
1:u:82:ARG:HD3	1:u:102:TYR:HB2	1.75	0.69
1:1:275:THR:HG21	1:1:472:PRO:HB2	1.75	0.69
1:5:82:ARG:HD3	1:5:102:TYR:HB2	1.75	0.69
1:H:423:SER:OG	1:H:426:GLU:OE1	2.11	0.69
1:W:82:ARG:HD3	1:W:102:TYR:HB2	1.75	0.69
1:b:82:ARG:HD3	1:b:102:TYR:HB2	1.75	0.69
1:f:82:ARG:HD3	1:f:102:TYR:HB2	1.75	0.69
1:m:82:ARG:HD3	1:m:102:TYR:HB2	1.75	0.69
1:n:82:ARG:HD3	1:n:102:TYR:HB2	1.75	0.69
1:s:82:ARG:HD3	1:s:102:TYR:HB2	1.75	0.69
1:5:423:SER:OG	1:5:426:GLU:OE1	2.11	0.69
1:6:275:THR:HG21	1:6:472:PRO:HB2	1.75	0.69
1:F:275:THR:HG21	1:F:472:PRO:HB2	1.75	0.69
1:U:82:ARG:HD3	1:U:102:TYR:HB2	1.75	0.69
1:d:82:ARG:HD3	1:d:102:TYR:HB2	1.75	0.69
1:u:275:THR:HG21	1:u:472:PRO:HB2	1.75	0.69
1:y:82:ARG:HD3	1:y:102:TYR:HB2	1.75	0.69
1:y:275:THR:HG21	1:y:472:PRO:HB2	1.75	0.69
1:F:82:ARG:HD3	1:F:102:TYR:HB2	1.75	0.69
1:I:275:THR:HG21	1:I:472:PRO:HB2	1.75	0.69
1:O:275:THR:HG21	1:O:472:PRO:HB2	1.75	0.69
1:T:82:ARG:HD3	1:T:102:TYR:HB2	1.75	0.69
1:W:275:THR:HG21	1:W:472:PRO:HB2	1.75	0.69
1:Z:275:THR:HG21	1:Z:472:PRO:HB2	1.75	0.69
1:a:275:THR:HG21	1:a:472:PRO:HB2	1.75	0.69
1:d:275:THR:HG21	1:d:472:PRO:HB2	1.75	0.69
1:g:82:ARG:HD3	1:g:102:TYR:HB2	1.75	0.69
1:n:275:THR:HG21	1:n:472:PRO:HB2	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:275:THR:HG21	1:3:472:PRO:HB2	1.75	0.69
1:7:275:THR:HG21	1:7:472:PRO:HB2	1.75	0.69
1:8:275:THR:HG21	1:8:472:PRO:HB2	1.75	0.69
1:C:82:ARG:HD3	1:C:102:TYR:HB2	1.75	0.69
1:O:423:SER:OG	1:O:426:GLU:OE1	2.11	0.69
1:l:275:THR:HG21	1:l:472:PRO:HB2	1.75	0.69
1:l:423:SER:OG	1:l:426:GLU:OE1	2.11	0.69
1:C:275:THR:HG21	1:C:472:PRO:HB2	1.75	0.69
1:Y:275:THR:HG21	1:Y:472:PRO:HB2	1.75	0.69
1:b:275:THR:HG21	1:b:472:PRO:HB2	1.75	0.69
1:f:275:THR:HG21	1:f:472:PRO:HB2	1.75	0.69
1:r:423:SER:OG	1:r:426:GLU:OE1	2.11	0.69
1:3:82:ARG:HD3	1:3:102:TYR:HB2	1.75	0.69
1:C:423:SER:OG	1:C:426:GLU:OE1	2.11	0.68
1:Q:423:SER:OG	1:Q:426:GLU:OE1	2.11	0.68
1:S:423:SER:OG	1:S:426:GLU:OE1	2.11	0.68
1:a:82:ARG:HD3	1:a:102:TYR:HB2	1.75	0.68
1:s:275:THR:HG21	1:s:472:PRO:HB2	1.75	0.68
1:x:423:SER:OG	1:x:426:GLU:OE1	2.11	0.68
1:2:275:THR:HG21	1:2:472:PRO:HB2	1.75	0.68
1:G:423:SER:OG	1:G:426:GLU:OE1	2.11	0.68
1:Z:82:ARG:HD3	1:Z:102:TYR:HB2	1.75	0.68
1:b:423:SER:OG	1:b:426:GLU:OE1	2.11	0.68
1:g:275:THR:HG21	1:g:472:PRO:HB2	1.75	0.68
1:g:423:SER:OG	1:g:426:GLU:OE1	2.11	0.68
1:k:82:ARG:HD3	1:k:102:TYR:HB2	1.75	0.68
1:x:275:THR:HG21	1:x:472:PRO:HB2	1.75	0.68
1:J:82:ARG:HD3	1:J:102:TYR:HB2	1.75	0.68
1:J:275:THR:HG21	1:J:472:PRO:HB2	1.75	0.68
1:N:82:ARG:HD3	1:N:102:TYR:HB2	1.75	0.68
1:T:63:ARG:HG3	1:T:197:LEU:HD23	1.76	0.68
1:U:275:THR:HG21	1:U:472:PRO:HB2	1.75	0.68
1:f:423:SER:OG	1:f:426:GLU:OE1	2.11	0.68
1:i:82:ARG:HD3	1:i:102:TYR:HB2	1.75	0.68
1:t:423:SER:OG	1:t:426:GLU:OE1	2.11	0.68
1:8:82:ARG:HD3	1:8:102:TYR:HB2	1.75	0.68
1:Q:275:THR:HG21	1:Q:472:PRO:HB2	1.75	0.68
1:d:63:ARG:HG3	1:d:197:LEU:HD23	1.76	0.68
1:n:63:ARG:HG3	1:n:197:LEU:HD23	1.76	0.68
1:4:275:THR:HG21	1:4:472:PRO:HB2	1.75	0.68
1:D:82:ARG:HD3	1:D:102:TYR:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:423:SER:OG	1:E:426:GLU:OE1	2.11	0.68
1:N:423:SER:OG	1:N:426:GLU:OE1	2.11	0.68
1:a:423:SER:OG	1:a:426:GLU:OE1	2.11	0.68
1:i:423:SER:OG	1:i:426:GLU:OE1	2.11	0.68
1:p:423:SER:OG	1:p:426:GLU:OE1	2.11	0.68
1:z:275:THR:HG21	1:z:472:PRO:HB2	1.75	0.68
1:2:82:ARG:HD3	1:2:102:TYR:HB2	1.75	0.68
1:K:275:THR:HG21	1:K:472:PRO:HB2	1.75	0.68
1:L:423:SER:OG	1:L:426:GLU:OE1	2.11	0.68
1:M:423:SER:OG	1:M:426:GLU:OE1	2.11	0.68
1:N:63:ARG:HG3	1:N:197:LEU:HD23	1.76	0.68
1:V:423:SER:OG	1:V:426:GLU:OE1	2.11	0.68
1:Z:423:SER:OG	1:Z:426:GLU:OE1	2.11	0.68
1:h:423:SER:OG	1:h:426:GLU:OE1	2.11	0.68
1:i:63:ARG:HG3	1:i:197:LEU:HD23	1.76	0.68
1:n:423:SER:OG	1:n:426:GLU:OE1	2.11	0.68
1:o:275:THR:HG21	1:o:472:PRO:HB2	1.75	0.68
1:t:63:ARG:HG3	1:t:197:LEU:HD23	1.76	0.68
1:3:423:SER:OG	1:3:426:GLU:OE1	2.11	0.68
1:E:416:ASN:OD1	1:Q:371:GLN:NE2	2.25	0.68
1:G:63:ARG:HG3	1:G:197:LEU:HD23	1.76	0.68
1:L:275:THR:HG21	1:L:472:PRO:HB2	1.75	0.68
1:d:423:SER:OG	1:d:426:GLU:OE1	2.11	0.68
1:k:423:SER:OG	1:k:426:GLU:OE1	2.11	0.68
1:m:63:ARG:HG3	1:m:197:LEU:HD23	1.76	0.68
1:q:423:SER:OG	1:q:426:GLU:OE1	2.11	0.68
1:s:423:SER:OG	1:s:426:GLU:OE1	2.11	0.68
1:w:63:ARG:HG3	1:w:197:LEU:HD23	1.76	0.68
1:w:423:SER:OG	1:w:426:GLU:OE1	2.11	0.68
1:2:423:SER:OG	1:2:426:GLU:OE1	2.11	0.68
1:6:423:SER:OG	1:6:426:GLU:OE1	2.11	0.68
1:8:423:SER:OG	1:8:426:GLU:OE1	2.11	0.68
1:B:63:ARG:HG3	1:B:197:LEU:HD23	1.76	0.68
1:E:63:ARG:HG3	1:E:197:LEU:HD23	1.76	0.68
1:I:423:SER:OG	1:I:426:GLU:OE1	2.11	0.68
1:J:423:SER:OG	1:J:426:GLU:OE1	2.11	0.68
1:O:82:ARG:HD3	1:O:102:TYR:HB2	1.75	0.68
1:R:82:ARG:HD3	1:R:102:TYR:HB2	1.75	0.68
1:R:275:THR:HG21	1:R:472:PRO:HB2	1.75	0.68
1:U:423:SER:OG	1:U:426:GLU:OE1	2.11	0.68
1:X:275:THR:HG21	1:X:472:PRO:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:423:SER:OG	1:u:426:GLU:OE1	2.11	0.68
1:w:416:ASN:OD1	1:x:371:GLN:NE2	2.25	0.68
1:z:423:SER:OG	1:z:426:GLU:OE1	2.11	0.68
1:2:63:ARG:HG3	1:2:197:LEU:HD23	1.76	0.68
1:B:82:ARG:HD3	1:B:102:TYR:HB2	1.75	0.68
1:D:275:THR:HG21	1:D:472:PRO:HB2	1.75	0.68
1:D:423:SER:OG	1:D:426:GLU:OE1	2.11	0.68
1:Q:82:ARG:HD3	1:Q:102:TYR:HB2	1.75	0.68
1:R:423:SER:OG	1:R:426:GLU:OE1	2.11	0.68
1:W:423:SER:OG	1:W:426:GLU:OE1	2.11	0.68
1:b:63:ARG:HG3	1:b:197:LEU:HD23	1.76	0.68
1:c:423:SER:OG	1:c:426:GLU:OE1	2.11	0.68
1:k:275:THR:HG21	1:k:472:PRO:HB2	1.75	0.68
1:o:82:ARG:HD3	1:o:102:TYR:HB2	1.75	0.68
1:q:82:ARG:HD3	1:q:102:TYR:HB2	1.75	0.68
1:q:275:THR:HG21	1:q:472:PRO:HB2	1.75	0.68
1:1:82:ARG:HD3	1:1:102:TYR:HB2	1.75	0.68
1:J:63:ARG:HG3	1:J:197:LEU:HD23	1.76	0.68
1:L:82:ARG:HD3	1:L:102:TYR:HB2	1.75	0.68
1:V:85:ARG:HG3	1:V:99:ASN:HD22	1.59	0.68
1:X:423:SER:OG	1:X:426:GLU:OE1	2.11	0.68
1:f:63:ARG:HG3	1:f:197:LEU:HD23	1.76	0.68
1:i:275:THR:HG21	1:i:472:PRO:HB2	1.75	0.68
1:p:85:ARG:HG3	1:p:99:ASN:HD22	1.59	0.68
1:q:63:ARG:HG3	1:q:197:LEU:HD23	1.76	0.68
1:v:275:THR:HG21	1:v:472:PRO:HB2	1.75	0.68
1:x:82:ARG:HD3	1:x:102:TYR:HB2	1.75	0.68
1:y:85:ARG:HG3	1:y:99:ASN:HD22	1.59	0.68
1:z:82:ARG:HD3	1:z:102:TYR:HB2	1.75	0.68
1:1:63:ARG:HG3	1:1:197:LEU:HD23	1.76	0.68
1:7:63:ARG:HG3	1:7:197:LEU:HD23	1.76	0.68
1:A:275:THR:HG21	1:A:472:PRO:HB2	1.75	0.67
1:F:85:ARG:HG3	1:F:99:ASN:HD22	1.60	0.67
1:G:82:ARG:HD3	1:G:102:TYR:HB2	1.75	0.67
1:H:85:ARG:HG3	1:H:99:ASN:HD22	1.60	0.67
1:K:423:SER:OG	1:K:426:GLU:OE1	2.11	0.67
1:S:63:ARG:HG3	1:S:197:LEU:HD23	1.76	0.67
1:W:63:ARG:HG3	1:W:197:LEU:HD23	1.76	0.67
1:W:85:ARG:HG3	1:W:99:ASN:HD22	1.60	0.67
1:e:423:SER:OG	1:e:426:GLU:OE1	2.11	0.67
1:l:82:ARG:HD3	1:l:102:TYR:HB2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:85:ARG:HG3	1:2:99:ASN:HD22	1.59	0.67
1:4:423:SER:OG	1:4:426:GLU:OE1	2.11	0.67
1:5:85:ARG:HG3	1:5:99:ASN:HD22	1.60	0.67
1:6:85:ARG:HG3	1:6:99:ASN:HD22	1.59	0.67
1:A:82:ARG:HD3	1:A:102:TYR:HB2	1.75	0.67
1:E:275:THR:HG21	1:E:472:PRO:HB2	1.75	0.67
1:J:85:ARG:HG3	1:J:99:ASN:HD22	1.60	0.67
1:N:275:THR:HG21	1:N:472:PRO:HB2	1.75	0.67
1:R:63:ARG:HG3	1:R:197:LEU:HD23	1.76	0.67
1:T:85:ARG:HG3	1:T:99:ASN:HD22	1.59	0.67
1:U:63:ARG:HG3	1:U:197:LEU:HD23	1.76	0.67
1:Y:63:ARG:HG3	1:Y:197:LEU:HD23	1.76	0.67
1:m:85:ARG:HG3	1:m:99:ASN:HD22	1.60	0.67
1:m:423:SER:OG	1:m:426:GLU:OE1	2.11	0.67
1:o:423:SER:OG	1:o:426:GLU:OE1	2.11	0.67
1:p:275:THR:HG21	1:p:472:PRO:HB2	1.75	0.67
1:t:82:ARG:HD3	1:t:102:TYR:HB2	1.75	0.67
1:v:82:ARG:HD3	1:v:102:TYR:HB2	1.75	0.67
1:y:423:SER:OG	1:y:426:GLU:OE1	2.11	0.67
1:6:63:ARG:HG3	1:6:197:LEU:HD23	1.76	0.67
1:P:82:ARG:HD3	1:P:102:TYR:HB2	1.75	0.67
1:T:423:SER:OG	1:T:426:GLU:OE1	2.11	0.67
1:V:275:THR:HG21	1:V:472:PRO:HB2	1.75	0.67
1:X:82:ARG:HD3	1:X:102:TYR:HB2	1.75	0.67
1:j:82:ARG:HD3	1:j:102:TYR:HB2	1.75	0.67
1:r:63:ARG:HG3	1:r:197:LEU:HD23	1.76	0.67
1:r:85:ARG:HG3	1:r:99:ASN:HD22	1.60	0.67
1:s:63:ARG:HG3	1:s:197:LEU:HD23	1.76	0.67
1:F:423:SER:OG	1:F:426:GLU:OE1	2.11	0.67
1:H:63:ARG:HG3	1:H:197:LEU:HD23	1.76	0.67
1:O:85:ARG:HG3	1:O:99:ASN:HD22	1.60	0.67
1:S:85:ARG:HG3	1:S:99:ASN:HD22	1.60	0.67
1:f:85:ARG:HG3	1:f:99:ASN:HD22	1.59	0.67
1:h:275:THR:HG21	1:h:472:PRO:HB2	1.75	0.67
1:j:423:SER:OG	1:j:426:GLU:OE1	2.11	0.67
1:w:82:ARG:HD3	1:w:102:TYR:HB2	1.75	0.67
1:w:275:THR:HG21	1:w:472:PRO:HB2	1.75	0.67
1:x:63:ARG:HG3	1:x:197:LEU:HD23	1.76	0.67
1:A:63:ARG:HG3	1:A:197:LEU:HD23	1.76	0.67
1:E:85:ARG:HG3	1:E:99:ASN:HD22	1.60	0.67
1:P:423:SER:OG	1:P:426:GLU:OE1	2.11	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:63:ARG:HG3	1:Q:197:LEU:HD23	1.76	0.67
1:S:275:THR:HG21	1:S:472:PRO:HB2	1.75	0.67
1:b:85:ARG:HG3	1:b:99:ASN:HD22	1.59	0.67
1:e:82:ARG:HD3	1:e:102:TYR:HB2	1.75	0.67
1:h:82:ARG:HD3	1:h:102:TYR:HB2	1.75	0.67
1:l:85:ARG:HG3	1:l:99:ASN:HD22	1.59	0.67
1:5:63:ARG:HG3	1:5:197:LEU:HD23	1.76	0.67
1:7:82:ARG:HD3	1:7:102:TYR:HB2	1.75	0.67
1:7:85:ARG:HG3	1:7:99:ASN:HD22	1.60	0.67
1:7:423:SER:OG	1:7:426:GLU:OE1	2.11	0.67
1:A:85:ARG:HG3	1:A:99:ASN:HD22	1.59	0.67
1:B:423:SER:OG	1:B:426:GLU:OE1	2.11	0.67
1:E:82:ARG:HD3	1:E:102:TYR:HB2	1.75	0.67
1:Y:82:ARG:HD3	1:Y:102:TYR:HB2	1.75	0.67
1:Y:85:ARG:HG3	1:Y:99:ASN:HD22	1.60	0.67
1:e:63:ARG:HG3	1:e:197:LEU:HD23	1.76	0.67
1:r:275:THR:HG21	1:r:472:PRO:HB2	1.75	0.67
1:v:63:ARG:HG3	1:v:197:LEU:HD23	1.76	0.67
1:w:85:ARG:HG3	1:w:99:ASN:HD22	1.60	0.67
1:M:275:THR:HG21	1:M:472:PRO:HB2	1.75	0.67
1:X:85:ARG:HG3	1:X:99:ASN:HD22	1.59	0.67
1:Y:423:SER:OG	1:Y:426:GLU:OE1	2.11	0.67
1:c:82:ARG:HD3	1:c:102:TYR:HB2	1.75	0.67
1:m:275:THR:HG21	1:m:472:PRO:HB2	1.75	0.67
1:o:85:ARG:HG3	1:o:99:ASN:HD22	1.60	0.67
1:u:63:ARG:HG3	1:u:197:LEU:HD23	1.76	0.67
1:v:85:ARG:HG3	1:v:99:ASN:HD22	1.60	0.67
1:K:63:ARG:HG3	1:K:197:LEU:HD23	1.76	0.67
1:L:85:ARG:HG3	1:L:99:ASN:HD22	1.60	0.67
1:a:63:ARG:HG3	1:a:197:LEU:HD23	1.76	0.67
1:c:63:ARG:HG3	1:c:197:LEU:HD23	1.76	0.67
1:g:85:ARG:HG3	1:g:99:ASN:HD22	1.59	0.67
1:h:77:ILE:HG12	1:h:106:VAL:HG22	1.77	0.67
1:1:423:SER:OG	1:1:426:GLU:OE1	2.11	0.67
1:3:63:ARG:HG3	1:3:197:LEU:HD23	1.76	0.67
1:7:77:ILE:HG12	1:7:106:VAL:HG22	1.77	0.67
1:C:85:ARG:HG3	1:C:99:ASN:HD22	1.60	0.67
1:H:275:THR:HG21	1:H:472:PRO:HB2	1.75	0.67
1:I:63:ARG:HG3	1:I:197:LEU:HD23	1.76	0.67
1:I:85:ARG:HG3	1:I:99:ASN:HD22	1.59	0.67
1:M:82:ARG:HD3	1:M:102:TYR:HB2	1.75	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:85:ARG:HG3	1:M:99:ASN:HD22	1.60	0.67
1:T:275:THR:HG21	1:T:472:PRO:HB2	1.75	0.67
1:Y:77:ILE:HG12	1:Y:106:VAL:HG22	1.77	0.67
1:k:85:ARG:HG3	1:k:99:ASN:HD22	1.59	0.67
1:u:85:ARG:HG3	1:u:99:ASN:HD22	1.59	0.67
1:z:63:ARG:HG3	1:z:197:LEU:HD23	1.76	0.67
1:z:85:ARG:HG3	1:z:99:ASN:HD22	1.60	0.67
1:4:63:ARG:HG3	1:4:197:LEU:HD23	1.76	0.67
1:5:275:THR:HG21	1:5:472:PRO:HB2	1.75	0.67
1:A:423:SER:OG	1:A:426:GLU:OE1	2.11	0.67
1:K:77:ILE:HG12	1:K:106:VAL:HG22	1.77	0.67
1:M:77:ILE:HG12	1:M:106:VAL:HG22	1.77	0.67
1:c:77:ILE:HG12	1:c:106:VAL:HG22	1.77	0.67
1:h:85:ARG:HG3	1:h:99:ASN:HD22	1.59	0.67
1:j:275:THR:HG21	1:j:472:PRO:HB2	1.75	0.67
1:v:423:SER:OG	1:v:426:GLU:OE1	2.11	0.67
1:4:77:ILE:HG12	1:4:106:VAL:HG22	1.77	0.67
1:B:77:ILE:HG12	1:B:106:VAL:HG22	1.77	0.66
1:D:85:ARG:HG3	1:D:99:ASN:HD22	1.60	0.66
1:G:85:ARG:HG3	1:G:99:ASN:HD22	1.60	0.66
1:M:63:ARG:HG3	1:M:197:LEU:HD23	1.76	0.66
1:e:77:ILE:HG12	1:e:106:VAL:HG22	1.77	0.66
1:l:63:ARG:HG3	1:l:197:LEU:HD23	1.76	0.66
1:o:63:ARG:HG3	1:o:197:LEU:HD23	1.76	0.66
1:1:77:ILE:HG12	1:1:106:VAL:HG22	1.77	0.66
1:L:63:ARG:HG3	1:L:197:LEU:HD23	1.76	0.66
1:P:63:ARG:HG3	1:P:197:LEU:HD23	1.76	0.66
1:P:77:ILE:HG12	1:P:106:VAL:HG22	1.77	0.66
1:P:85:ARG:HG3	1:P:99:ASN:HD22	1.60	0.66
1:P:275:THR:HG21	1:P:472:PRO:HB2	1.75	0.66
1:Q:85:ARG:HG3	1:Q:99:ASN:HD22	1.59	0.66
1:j:85:ARG:HG3	1:j:99:ASN:HD22	1.60	0.66
1:p:63:ARG:HG3	1:p:197:LEU:HD23	1.76	0.66
1:t:85:ARG:HG3	1:t:99:ASN:HD22	1.59	0.66
1:x:85:ARG:HG3	1:x:99:ASN:HD22	1.59	0.66
1:g:63:ARG:HG3	1:g:197:LEU:HD23	1.76	0.66
1:h:63:ARG:HG3	1:h:197:LEU:HD23	1.76	0.66
1:p:82:ARG:HD3	1:p:102:TYR:HB2	1.75	0.66
1:8:77:ILE:HG12	1:8:106:VAL:HG22	1.77	0.66
1:C:63:ARG:HG3	1:C:197:LEU:HD23	1.76	0.66
1:O:63:ARG:HG3	1:O:197:LEU:HD23	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:63:ARG:HG3	1:V:197:LEU:HD23	1.76	0.66
1:X:63:ARG:HG3	1:X:197:LEU:HD23	1.76	0.66
1:j:63:ARG:HG3	1:j:197:LEU:HD23	1.76	0.66
1:n:85:ARG:HG3	1:n:99:ASN:HD22	1.60	0.66
1:p:77:ILE:HG12	1:p:106:VAL:HG22	1.77	0.66
1:s:85:ARG:HG3	1:s:99:ASN:HD22	1.59	0.66
1:A:444:ASP:HB3	1:A:467:MET:HE3	1.78	0.66
1:D:444:ASP:HB3	1:D:467:MET:HE3	1.78	0.66
1:F:77:ILE:HG12	1:F:106:VAL:HG22	1.77	0.66
1:U:85:ARG:HG3	1:U:99:ASN:HD22	1.59	0.66
1:V:82:ARG:HD3	1:V:102:TYR:HB2	1.75	0.66
1:Z:77:ILE:HG12	1:Z:106:VAL:HG22	1.77	0.66
1:d:85:ARG:HG3	1:d:99:ASN:HD22	1.59	0.66
1:g:77:ILE:HG12	1:g:106:VAL:HG22	1.77	0.66
1:j:77:ILE:HG12	1:j:106:VAL:HG22	1.77	0.66
1:k:444:ASP:HB3	1:k:467:MET:HE3	1.78	0.66
1:v:444:ASP:HB3	1:v:467:MET:HE3	1.78	0.66
1:y:77:ILE:HG12	1:y:106:VAL:HG22	1.77	0.66
1:8:444:ASP:HB3	1:8:467:MET:HE3	1.78	0.66
1:A:77:ILE:HG12	1:A:106:VAL:HG22	1.77	0.66
1:F:63:ARG:HG3	1:F:197:LEU:HD23	1.76	0.66
1:V:77:ILE:HG12	1:V:106:VAL:HG22	1.77	0.66
1:W:444:ASP:HB3	1:W:467:MET:HE3	1.78	0.66
1:Z:63:ARG:HG3	1:Z:197:LEU:HD23	1.76	0.66
1:c:85:ARG:HG3	1:c:99:ASN:HD22	1.60	0.66
1:q:85:ARG:HG3	1:q:99:ASN:HD22	1.59	0.66
1:5:77:ILE:HG12	1:5:106:VAL:HG22	1.77	0.66
1:6:444:ASP:HB3	1:6:467:MET:HE3	1.78	0.66
1:C:77:ILE:HG12	1:C:106:VAL:HG22	1.77	0.66
1:D:63:ARG:HG3	1:D:197:LEU:HD23	1.76	0.66
1:H:77:ILE:HG12	1:H:106:VAL:HG22	1.77	0.66
1:U:444:ASP:HB3	1:U:467:MET:HE3	1.78	0.66
1:Z:444:ASP:HB3	1:Z:467:MET:HE3	1.78	0.66
1:e:85:ARG:HG3	1:e:99:ASN:HD22	1.60	0.66
1:r:444:ASP:HB3	1:r:467:MET:HE3	1.78	0.66
1:B:85:ARG:HG3	1:B:99:ASN:HD22	1.59	0.66
1:E:396:GLN:CD	1:E:448:GLN:HE21	2.04	0.66
1:E:444:ASP:HB3	1:E:467:MET:HE3	1.78	0.66
1:F:444:ASP:HB3	1:F:467:MET:HE3	1.78	0.66
1:L:77:ILE:HG12	1:L:106:VAL:HG22	1.77	0.66
1:N:85:ARG:HG3	1:N:99:ASN:HD22	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:77:ILE:HG12	1:O:106:VAL:HG22	1.77	0.66
1:R:85:ARG:HG3	1:R:99:ASN:HD22	1.59	0.66
1:S:444:ASP:HB3	1:S:467:MET:HE3	1.78	0.66
1:k:63:ARG:HG3	1:k:197:LEU:HD23	1.76	0.66
1:s:444:ASP:HB3	1:s:467:MET:HE3	1.78	0.66
1:t:39:THR:OG1	1:t:147:ASP:HB2	1.96	0.66
1:v:77:ILE:HG12	1:v:106:VAL:HG22	1.77	0.66
1:w:396:GLN:CD	1:w:448:GLN:HE21	2.04	0.66
1:y:63:ARG:HG3	1:y:197:LEU:HD23	1.76	0.66
1:z:77:ILE:HG12	1:z:106:VAL:HG22	1.77	0.66
1:2:77:ILE:HG12	1:2:106:VAL:HG22	1.77	0.66
1:8:63:ARG:HG3	1:8:197:LEU:HD23	1.76	0.66
1:D:39:THR:OG1	1:D:147:ASP:HB2	1.96	0.66
1:G:39:THR:OG1	1:G:147:ASP:HB2	1.96	0.66
1:I:77:ILE:HG12	1:I:106:VAL:HG22	1.77	0.66
1:I:444:ASP:HB3	1:I:467:MET:HE3	1.78	0.66
1:J:77:ILE:HG12	1:J:106:VAL:HG22	1.77	0.66
1:K:444:ASP:HB3	1:K:467:MET:HE3	1.78	0.66
1:M:39:THR:OG1	1:M:147:ASP:HB2	1.96	0.66
1:O:444:ASP:HB3	1:O:467:MET:HE3	1.78	0.66
1:R:77:ILE:HG12	1:R:106:VAL:HG22	1.77	0.66
1:S:77:ILE:HG12	1:S:106:VAL:HG22	1.77	0.66
1:U:77:ILE:HG12	1:U:106:VAL:HG22	1.77	0.66
1:i:85:ARG:HG3	1:i:99:ASN:HD22	1.59	0.66
1:l:77:ILE:HG12	1:l:106:VAL:HG22	1.77	0.66
1:n:77:ILE:HG12	1:n:106:VAL:HG22	1.77	0.66
1:q:77:ILE:HG12	1:q:106:VAL:HG22	1.77	0.66
1:s:77:ILE:HG12	1:s:106:VAL:HG22	1.77	0.66
1:u:444:ASP:HB3	1:u:467:MET:HE3	1.78	0.66
1:w:444:ASP:HB3	1:w:467:MET:HE3	1.78	0.66
1:y:444:ASP:HB3	1:y:467:MET:HE3	1.78	0.66
1:2:396:GLN:CD	1:2:448:GLN:HE21	2.04	0.66
1:3:85:ARG:HG3	1:3:99:ASN:HD22	1.59	0.66
1:C:569:MET:HE2	1:b:459:PRO:HB3	1.77	0.66
1:D:77:ILE:HG12	1:D:106:VAL:HG22	1.77	0.66
1:E:77:ILE:HG12	1:E:106:VAL:HG22	1.77	0.66
1:F:39:THR:OG1	1:F:147:ASP:HB2	1.96	0.66
1:F:396:GLN:CD	1:F:448:GLN:HE21	2.04	0.66
1:J:396:GLN:CD	1:J:448:GLN:HE21	2.04	0.66
1:Q:77:ILE:HG12	1:Q:106:VAL:HG22	1.77	0.66
1:S:396:GLN:CD	1:S:448:GLN:HE21	2.04	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:396:GLN:CD	1:X:448:GLN:HE21	2.04	0.66
1:a:85:ARG:HG3	1:a:99:ASN:HD22	1.60	0.66
1:d:77:ILE:HG12	1:d:106:VAL:HG22	1.77	0.66
1:f:396:GLN:CD	1:f:448:GLN:HE21	2.04	0.66
1:h:39:THR:OG1	1:h:147:ASP:HB2	1.96	0.66
1:k:39:THR:OG1	1:k:147:ASP:HB2	1.96	0.66
1:k:77:ILE:HG12	1:k:106:VAL:HG22	1.77	0.66
1:l:444:ASP:HB3	1:l:467:MET:HE3	1.78	0.66
1:r:77:ILE:HG12	1:r:106:VAL:HG22	1.77	0.66
1:r:396:GLN:CD	1:r:448:GLN:HE21	2.04	0.66
1:u:77:ILE:HG12	1:u:106:VAL:HG22	1.77	0.66
1:v:396:GLN:CD	1:v:448:GLN:HE21	2.04	0.66
1:y:39:THR:OG1	1:y:147:ASP:HB2	1.96	0.66
1:1:85:ARG:HG3	1:1:99:ASN:HD22	1.59	0.66
1:4:444:ASP:HB3	1:4:467:MET:HE3	1.78	0.66
1:7:39:THR:OG1	1:7:147:ASP:HB2	1.96	0.66
1:A:39:THR:OG1	1:A:147:ASP:HB2	1.96	0.65
1:A:396:GLN:CD	1:A:448:GLN:HE21	2.04	0.65
1:T:77:ILE:HG12	1:T:106:VAL:HG22	1.77	0.65
1:T:396:GLN:CD	1:T:448:GLN:HE21	2.04	0.65
1:Y:39:THR:OG1	1:Y:147:ASP:HB2	1.96	0.65
1:b:396:GLN:CD	1:b:448:GLN:HE21	2.04	0.65
1:f:77:ILE:HG12	1:f:106:VAL:HG22	1.77	0.65
1:m:77:ILE:HG12	1:m:106:VAL:HG22	1.77	0.65
1:v:39:THR:OG1	1:v:147:ASP:HB2	1.96	0.65
1:x:77:ILE:HG12	1:x:106:VAL:HG22	1.77	0.65
1:3:77:ILE:HG12	1:3:106:VAL:HG22	1.77	0.65
1:P:444:ASP:HB3	1:P:467:MET:HE3	1.78	0.65
1:Q:396:GLN:CD	1:Q:448:GLN:HE21	2.04	0.65
1:S:39:THR:OG1	1:S:147:ASP:HB2	1.96	0.65
1:W:396:GLN:CD	1:W:448:GLN:HE21	2.04	0.65
1:a:77:ILE:HG12	1:a:106:VAL:HG22	1.77	0.65
1:b:77:ILE:HG12	1:b:106:VAL:HG22	1.77	0.65
1:u:39:THR:OG1	1:u:147:ASP:HB2	1.96	0.65
1:w:77:ILE:HG12	1:w:106:VAL:HG22	1.77	0.65
1:x:444:ASP:HB3	1:x:467:MET:HE3	1.78	0.65
1:y:396:GLN:CD	1:y:448:GLN:HE21	2.04	0.65
1:2:444:ASP:HB3	1:2:467:MET:HE3	1.78	0.65
1:6:396:GLN:CD	1:6:448:GLN:HE21	2.04	0.65
1:8:396:GLN:CD	1:8:448:GLN:HE21	2.04	0.65
1:I:39:THR:OG1	1:I:147:ASP:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:444:ASP:HB3	1:J:467:MET:HE3	1.78	0.65
1:K:39:THR:OG1	1:K:147:ASP:HB2	1.96	0.65
1:O:396:GLN:CD	1:O:448:GLN:HE21	2.04	0.65
1:Q:444:ASP:HB3	1:Q:467:MET:HE3	1.78	0.65
1:c:444:ASP:HB3	1:c:467:MET:HE3	1.78	0.65
1:j:444:ASP:HB3	1:j:467:MET:HE3	1.78	0.65
1:o:396:GLN:CD	1:o:448:GLN:HE21	2.04	0.65
1:r:39:THR:OG1	1:r:147:ASP:HB2	1.97	0.65
1:1:39:THR:OG1	1:1:147:ASP:HB2	1.97	0.65
1:4:39:THR:OG1	1:4:147:ASP:HB2	1.96	0.65
1:8:85:ARG:HG3	1:8:99:ASN:HD22	1.60	0.65
1:B:39:THR:OG1	1:B:147:ASP:HB2	1.97	0.65
1:E:39:THR:OG1	1:E:147:ASP:HB2	1.96	0.65
1:H:39:THR:OG1	1:H:147:ASP:HB2	1.96	0.65
1:Q:39:THR:OG1	1:Q:147:ASP:HB2	1.96	0.65
1:V:39:THR:OG1	1:V:147:ASP:HB2	1.96	0.65
1:W:39:THR:OG1	1:W:147:ASP:HB2	1.96	0.65
1:Z:39:THR:OG1	1:Z:147:ASP:HB2	1.96	0.65
1:Z:396:GLN:CD	1:Z:448:GLN:HE21	2.04	0.65
1:j:396:GLN:CD	1:j:448:GLN:HE21	2.04	0.65
1:m:396:GLN:CD	1:m:448:GLN:HE21	2.04	0.65
1:w:39:THR:OG1	1:w:147:ASP:HB2	1.96	0.65
1:3:444:ASP:HB3	1:3:467:MET:HE3	1.78	0.65
1:5:39:THR:OG1	1:5:147:ASP:HB2	1.96	0.65
1:6:39:THR:OG1	1:6:147:ASP:HB2	1.96	0.65
1:8:39:THR:OG1	1:8:147:ASP:HB2	1.96	0.65
1:A:459:PRO:HB3	1:I:569:MET:HE2	1.78	0.65
1:C:396:GLN:CD	1:C:448:GLN:HE21	2.04	0.65
1:U:39:THR:OG1	1:U:147:ASP:HB2	1.96	0.65
1:X:39:THR:OG1	1:X:147:ASP:HB2	1.96	0.65
1:Z:85:ARG:HG3	1:Z:99:ASN:HD22	1.60	0.65
1:a:444:ASP:HB3	1:a:467:MET:HE3	1.78	0.65
1:d:39:THR:OG1	1:d:147:ASP:HB2	1.96	0.65
1:e:444:ASP:HB3	1:e:467:MET:HE3	1.78	0.65
1:i:77:ILE:HG12	1:i:106:VAL:HG22	1.77	0.65
1:l:396:GLN:CD	1:l:448:GLN:HE21	2.04	0.65
1:o:77:ILE:HG12	1:o:106:VAL:HG22	1.77	0.65
1:p:39:THR:OG1	1:p:147:ASP:HB2	1.96	0.65
1:q:444:ASP:HB3	1:q:467:MET:HE3	1.78	0.65
1:x:39:THR:OG1	1:x:147:ASP:HB2	1.96	0.65
1:x:396:GLN:CD	1:x:448:GLN:HE21	2.04	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:77:ILE:HG12	1:N:106:VAL:HG22	1.77	0.65
1:X:77:ILE:HG12	1:X:106:VAL:HG22	1.77	0.65
1:a:39:THR:OG1	1:a:147:ASP:HB2	1.96	0.65
1:g:396:GLN:CD	1:g:448:GLN:HE21	2.04	0.65
1:g:444:ASP:HB3	1:g:467:MET:HE3	1.78	0.65
1:h:396:GLN:CD	1:h:448:GLN:HE21	2.04	0.65
1:i:444:ASP:HB3	1:i:467:MET:HE3	1.78	0.65
1:n:39:THR:OG1	1:n:147:ASP:HB2	1.96	0.65
1:n:396:GLN:CD	1:n:448:GLN:HE21	2.04	0.65
1:s:39:THR:OG1	1:s:147:ASP:HB2	1.96	0.65
1:B:396:GLN:CD	1:B:448:GLN:HE21	2.04	0.65
1:C:444:ASP:HB3	1:C:467:MET:HE3	1.78	0.65
1:N:444:ASP:HB3	1:N:467:MET:HE3	1.78	0.65
1:R:396:GLN:CD	1:R:448:GLN:HE21	2.04	0.65
1:R:444:ASP:HB3	1:R:467:MET:HE3	1.78	0.65
1:b:444:ASP:HB3	1:b:467:MET:HE3	1.78	0.65
1:o:39:THR:OG1	1:o:147:ASP:HB2	1.96	0.65
1:q:396:GLN:CD	1:q:448:GLN:HE21	2.04	0.65
1:4:85:ARG:HG3	1:4:99:ASN:HD22	1.60	0.65
1:D:396:GLN:CD	1:D:448:GLN:HE21	2.04	0.65
1:K:85:ARG:HG3	1:K:99:ASN:HD22	1.60	0.65
1:P:396:GLN:CD	1:P:448:GLN:HE21	2.04	0.65
1:d:396:GLN:CD	1:d:448:GLN:HE21	2.04	0.65
1:e:396:GLN:CD	1:e:448:GLN:HE21	2.04	0.65
1:h:444:ASP:HB3	1:h:467:MET:HE3	1.78	0.65
1:k:396:GLN:CD	1:k:448:GLN:HE21	2.04	0.65
1:1:396:GLN:CD	1:1:448:GLN:HE21	2.04	0.65
1:2:39:THR:OG1	1:2:147:ASP:HB2	1.96	0.65
1:3:39:THR:OG1	1:3:147:ASP:HB2	1.96	0.65
1:3:396:GLN:CD	1:3:448:GLN:HE21	2.04	0.65
1:7:396:GLN:CD	1:7:448:GLN:HE21	2.04	0.65
1:G:444:ASP:HB3	1:G:467:MET:HE3	1.78	0.65
1:J:39:THR:OG1	1:J:147:ASP:HB2	1.97	0.65
1:L:39:THR:OG1	1:L:147:ASP:HB2	1.96	0.65
1:M:396:GLN:CD	1:M:448:GLN:HE21	2.04	0.65
1:M:444:ASP:HB3	1:M:467:MET:HE3	1.78	0.65
1:O:39:THR:OG1	1:O:147:ASP:HB2	1.96	0.65
1:U:396:GLN:CD	1:U:448:GLN:HE21	2.04	0.65
1:Y:396:GLN:CD	1:Y:448:GLN:HE21	2.04	0.65
1:Y:444:ASP:HB3	1:Y:467:MET:HE3	1.78	0.65
1:a:396:GLN:CD	1:a:448:GLN:HE21	2.04	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:396:GLN:CD	1:c:448:GLN:HE21	2.04	0.65
1:l:39:THR:OG1	1:l:147:ASP:HB2	1.96	0.65
1:s:396:GLN:CD	1:s:448:GLN:HE21	2.04	0.65
1:t:444:ASP:HB3	1:t:467:MET:HE3	1.78	0.65
1:z:39:THR:OG1	1:z:147:ASP:HB2	1.96	0.65
1:f:444:ASP:HB3	1:f:467:MET:HE3	1.78	0.65
1:z:396:GLN:CD	1:z:448:GLN:HE21	2.04	0.65
1:I:396:GLN:CD	1:I:448:GLN:HE21	2.04	0.64
1:L:396:GLN:CD	1:L:448:GLN:HE21	2.04	0.64
1:R:39:THR:OG1	1:R:147:ASP:HB2	1.96	0.64
1:V:444:ASP:HB3	1:V:467:MET:HE3	1.78	0.64
1:7:444:ASP:HB3	1:7:467:MET:HE3	1.78	0.64
1:B:444:ASP:HB3	1:B:467:MET:HE3	1.78	0.64
1:H:396:GLN:CD	1:H:448:GLN:HE21	2.04	0.64
1:N:39:THR:OG1	1:N:147:ASP:HB2	1.96	0.64
1:i:39:THR:OG1	1:i:147:ASP:HB2	1.97	0.64
1:u:396:GLN:CD	1:u:448:GLN:HE21	2.04	0.64
1:p:444:ASP:HB3	1:p:467:MET:HE3	1.78	0.64
1:q:39:THR:OG1	1:q:147:ASP:HB2	1.96	0.64
1:t:459:PRO:HB3	1:v:569:MET:HE2	1.80	0.64
1:g:39:THR:OG1	1:g:147:ASP:HB2	1.96	0.64
1:n:444:ASP:HB3	1:n:467:MET:HE3	1.78	0.64
1:1:444:ASP:HB3	1:1:467:MET:HE3	1.78	0.64
1:5:396:GLN:CD	1:5:448:GLN:HE21	2.04	0.64
1:P:39:THR:OG1	1:P:147:ASP:HB2	1.96	0.64
1:X:444:ASP:HB3	1:X:467:MET:HE3	1.78	0.64
1:f:39:THR:OG1	1:f:147:ASP:HB2	1.96	0.64
1:j:39:THR:OG1	1:j:147:ASP:HB2	1.96	0.64
1:z:444:ASP:HB3	1:z:467:MET:HE3	1.78	0.64
1:6:77:ILE:HG12	1:6:106:VAL:HG22	1.77	0.64
1:C:39:THR:OG1	1:C:147:ASP:HB2	1.96	0.64
1:F:459:PRO:HB3	1:Q:569:MET:HE2	1.78	0.64
1:W:77:ILE:HG12	1:W:106:VAL:HG22	1.77	0.64
1:b:39:THR:OG1	1:b:147:ASP:HB2	1.96	0.64
1:d:444:ASP:HB3	1:d:467:MET:HE3	1.78	0.64
1:e:39:THR:OG1	1:e:147:ASP:HB2	1.96	0.64
1:o:444:ASP:HB3	1:o:467:MET:HE3	1.78	0.64
1:t:77:ILE:HG12	1:t:106:VAL:HG22	1.77	0.64
1:x:569:MET:HE2	1:y:459:PRO:HB3	1.78	0.64
1:4:396:GLN:CD	1:4:448:GLN:HE21	2.04	0.64
1:A:569:MET:HE2	1:G:459:PRO:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:77:ILE:HG12	1:G:106:VAL:HG22	1.77	0.64
1:K:396:GLN:CD	1:K:448:GLN:HE21	2.04	0.64
1:L:444:ASP:HB3	1:L:467:MET:HE3	1.78	0.64
1:T:39:THR:OG1	1:T:147:ASP:HB2	1.96	0.64
1:V:396:GLN:CD	1:V:448:GLN:HE21	2.04	0.64
1:m:39:THR:OG1	1:m:147:ASP:HB2	1.96	0.64
1:p:396:GLN:CD	1:p:448:GLN:HE21	2.04	0.64
1:N:396:GLN:CD	1:N:448:GLN:HE21	2.04	0.64
1:c:39:THR:OG1	1:c:147:ASP:HB2	1.96	0.64
1:i:396:GLN:CD	1:i:448:GLN:HE21	2.04	0.64
1:t:396:GLN:CD	1:t:448:GLN:HE21	2.04	0.64
1:G:396:GLN:CD	1:G:448:GLN:HE21	2.04	0.64
1:J:569:MET:HE2	1:L:459:PRO:HB3	1.80	0.64
1:m:444:ASP:HB3	1:m:467:MET:HE3	1.78	0.64
1:1:569:MET:HE2	1:2:459:PRO:HB3	1.80	0.64
1:B:569:MET:HE2	1:J:459:PRO:HB3	1.80	0.63
1:W:569:MET:HE2	1:Y:459:PRO:HB3	1.80	0.63
1:z:459:PRO:HB3	1:2:569:MET:HE2	1.80	0.63
1:6:569:MET:HE2	1:7:459:PRO:HB3	1.80	0.63
1:B:459:PRO:HB3	1:L:569:MET:HE2	1.80	0.63
1:H:444:ASP:HB3	1:H:467:MET:HE3	1.78	0.63
1:R:459:PRO:HB3	1:U:569:MET:HE2	1.80	0.63
1:T:444:ASP:HB3	1:T:467:MET:HE3	1.78	0.63
1:q:459:PRO:HB3	1:s:569:MET:HE2	1.80	0.63
1:j:569:MET:HE2	1:k:459:PRO:HB3	1.80	0.63
1:w:569:MET:HE2	1:x:459:PRO:HB3	1.80	0.63
1:z:569:MET:HE2	1:1:459:PRO:HB3	1.80	0.63
1:5:444:ASP:HB3	1:5:467:MET:HE3	1.78	0.63
1:c:459:PRO:HB3	1:p:569:MET:HE2	1.80	0.63
1:u:569:MET:HE2	1:v:459:PRO:HB3	1.80	0.63
1:D:459:PRO:HB3	1:P:569:MET:HE2	1.80	0.63
1:E:459:PRO:HB3	1:F:569:MET:HE2	1.80	0.63
1:O:459:PRO:HB3	1:n:569:MET:HE2	1.80	0.63
1:V:569:MET:HE2	1:e:459:PRO:HB3	1.81	0.63
1:c:569:MET:HE2	1:o:459:PRO:HB3	1.80	0.63
1:q:569:MET:HE2	1:r:459:PRO:HB3	1.80	0.63
1:w:459:PRO:HB3	1:y:569:MET:HE2	1.80	0.63
1:O:569:MET:HE2	1:m:459:PRO:HB3	1.81	0.63
1:R:569:MET:HE2	1:S:459:PRO:HB3	1.80	0.63
1:T:569:MET:HE2	1:d:459:PRO:HB3	1.80	0.63
1:V:459:PRO:HB3	1:X:569:MET:HE2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:459:PRO:HB3	1:g:569:MET:HE2	1.80	0.63
1:Z:459:PRO:HB3	1:3:569:MET:HE2	1.80	0.63
1:a:569:MET:HE2	1:8:459:PRO:HB3	1.80	0.63
1:d:569:MET:HE2	1:l:459:PRO:HB3	1.80	0.63
1:o:569:MET:HE2	1:p:459:PRO:HB3	1.81	0.63
1:C:154:VAL:CG2	1:C:167:TYR:CD1	2.81	0.63
1:E:569:MET:HE2	1:Q:459:PRO:HB3	1.80	0.63
1:H:459:PRO:HB3	1:Y:569:MET:HE2	1.80	0.63
1:T:459:PRO:HB3	1:l:569:MET:HE2	1.81	0.63
1:X:459:PRO:HB3	1:e:569:MET:HE2	1.80	0.63
1:g:154:VAL:CG2	1:g:167:TYR:CD1	2.81	0.63
1:5:459:PRO:HB3	1:7:569:MET:HE2	1.80	0.63
1:m:569:MET:HE2	1:n:459:PRO:HB3	1.80	0.62
1:M:154:VAL:CG2	1:M:167:TYR:CD1	2.81	0.62
1:h:154:VAL:CG2	1:h:167:TYR:CD1	2.81	0.62
1:G:569:MET:HE2	1:I:459:PRO:HB3	1.80	0.62
1:H:569:MET:HE2	1:W:459:PRO:HB3	1.80	0.62
1:i:569:MET:HE2	1:j:459:PRO:HB3	1.80	0.62
1:5:569:MET:HE2	1:6:459:PRO:HB3	1.80	0.62
1:C:459:PRO:HB3	1:M:569:MET:HE2	1.81	0.62
1:D:569:MET:HE2	1:N:459:PRO:HB3	1.80	0.62
1:i:459:PRO:HB3	1:k:569:MET:HE2	1.80	0.62
1:N:569:MET:HE2	1:P:459:PRO:HB3	1.80	0.62
1:3:459:PRO:HB3	1:4:569:MET:HE2	1.80	0.62
1:A:154:VAL:CG2	1:A:167:TYR:CD1	2.81	0.62
1:F:154:VAL:CG2	1:F:167:TYR:CD1	2.81	0.62
1:K:459:PRO:HB3	1:8:569:MET:HE2	1.81	0.62
1:K:569:MET:HE2	1:a:459:PRO:HB3	1.80	0.62
1:M:459:PRO:HB3	1:b:569:MET:HE2	1.80	0.62
1:Q:154:VAL:CG2	1:Q:167:TYR:CD1	2.81	0.61
1:d:154:VAL:CG2	1:d:167:TYR:CD1	2.81	0.61
1:x:154:VAL:CG2	1:x:167:TYR:CD1	2.81	0.61
1:A:192:MET:HG3	1:I:326:ARG:HH21	1.64	0.61
1:P:154:VAL:CG2	1:P:167:TYR:CD1	2.81	0.61
1:Z:569:MET:HE2	1:4:459:PRO:HB3	1.81	0.61
1:r:569:MET:HE2	1:s:459:PRO:HB3	1.80	0.61
1:v:154:VAL:CG2	1:v:167:TYR:CD1	2.81	0.61
1:y:154:VAL:CG2	1:y:167:TYR:CD1	2.81	0.61
1:C:326:ARG:HH21	1:b:192:MET:HG3	1.65	0.61
1:Z:317:ARG:HD2	1:Z:417:LEU:HD11	1.83	0.61
1:m:154:VAL:CG2	1:m:167:TYR:CD1	2.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:154:VAL:CG2	1:n:167:TYR:CD1	2.81	0.61
1:S:569:MET:HE2	1:U:459:PRO:HB3	1.80	0.61
1:T:154:VAL:CG2	1:T:167:TYR:CD1	2.81	0.61
1:Y:317:ARG:HD2	1:Y:417:LEU:HD11	1.83	0.61
1:f:569:MET:HE2	1:h:459:PRO:HB3	1.80	0.61
1:j:154:VAL:CG2	1:j:167:TYR:CD1	2.81	0.61
1:7:317:ARG:HD2	1:7:417:LEU:HD11	1.83	0.61
1:E:154:VAL:CG2	1:E:167:TYR:CD1	2.81	0.61
1:g:459:PRO:HB3	1:h:569:MET:HE2	1.81	0.61
1:8:317:ARG:HD2	1:8:417:LEU:HD11	1.83	0.61
1:W:317:ARG:HD2	1:W:417:LEU:HD11	1.83	0.61
1:6:317:ARG:HD2	1:6:417:LEU:HD11	1.83	0.61
1:X:317:ARG:HD2	1:X:417:LEU:HD11	1.83	0.61
1:f:154:VAL:CG2	1:f:167:TYR:CD1	2.81	0.61
1:C:569:MET:HB3	1:b:459:PRO:HA	1.82	0.61
1:o:317:ARG:HD2	1:o:417:LEU:HD11	1.83	0.61
1:v:317:ARG:HD2	1:v:417:LEU:HD11	1.83	0.61
1:w:154:VAL:CG2	1:w:167:TYR:CD1	2.81	0.61
1:4:154:VAL:CG2	1:4:167:TYR:CD1	2.81	0.61
1:A:317:ARG:HD2	1:A:417:LEU:HD11	1.83	0.61
1:b:154:VAL:CG2	1:b:167:TYR:CD1	2.81	0.61
1:K:154:VAL:CG2	1:K:167:TYR:CD1	2.81	0.61
1:5:154:VAL:CG2	1:5:167:TYR:CD1	2.81	0.61
1:F:317:ARG:HD2	1:F:417:LEU:HD11	1.83	0.60
1:b:317:ARG:HD2	1:b:417:LEU:HD11	1.83	0.60
1:f:317:ARG:HD2	1:f:417:LEU:HD11	1.83	0.60
1:t:569:MET:HE2	1:u:459:PRO:HB3	1.82	0.60
1:u:154:VAL:CG2	1:u:167:TYR:CD1	2.81	0.60
1:y:317:ARG:HD2	1:y:417:LEU:HD11	1.83	0.60
1:Q:317:ARG:HD2	1:Q:417:LEU:HD11	1.83	0.60
1:R:317:ARG:HD2	1:R:417:LEU:HD11	1.83	0.60
1:Y:154:VAL:CG2	1:Y:167:TYR:CD1	2.81	0.60
1:c:317:ARG:HD2	1:c:417:LEU:HD11	1.83	0.60
1:e:317:ARG:HD2	1:e:417:LEU:HD11	1.83	0.60
1:q:317:ARG:HD2	1:q:417:LEU:HD11	1.83	0.60
1:w:317:ARG:HD2	1:w:417:LEU:HD11	1.83	0.60
1:x:317:ARG:HD2	1:x:417:LEU:HD11	1.83	0.60
1:J:154:VAL:CG2	1:J:167:TYR:CD1	2.81	0.60
1:a:154:VAL:CG2	1:a:167:TYR:CD1	2.81	0.60
1:7:154:VAL:CG2	1:7:167:TYR:CD1	2.81	0.60
1:E:317:ARG:HD2	1:E:417:LEU:HD11	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:154:VAL:CG2	1:O:167:TYR:CD1	2.81	0.60
1:P:317:ARG:HD2	1:P:417:LEU:HD11	1.83	0.60
1:3:154:VAL:CG2	1:3:167:TYR:CD1	2.81	0.60
1:F:192:MET:HG3	1:Q:326:ARG:HH21	1.65	0.60
1:O:317:ARG:HD2	1:O:417:LEU:HD11	1.83	0.60
1:j:317:ARG:HD2	1:j:417:LEU:HD11	1.83	0.60
1:l:154:VAL:CG2	1:l:167:TYR:CD1	2.81	0.60
1:i:317:ARG:HD2	1:i:417:LEU:HD11	1.83	0.60
1:l:317:ARG:HD2	1:l:417:LEU:HD11	1.83	0.60
1:x:326:ARG:HH21	1:y:192:MET:HG3	1.65	0.60
1:2:154:VAL:CG2	1:2:167:TYR:CD1	2.81	0.60
1:4:317:ARG:HD2	1:4:417:LEU:HD11	1.83	0.60
1:N:317:ARG:HD2	1:N:417:LEU:HD11	1.83	0.60
1:Z:154:VAL:CG2	1:Z:167:TYR:CD1	2.81	0.60
1:K:317:ARG:HD2	1:K:417:LEU:HD11	1.83	0.60
1:B:317:ARG:HD2	1:B:417:LEU:HD11	1.83	0.60
1:T:381:TYR:OH	1:U:74:GLU:OE2	2.20	0.60
1:g:381:TYR:OH	1:1:74:GLU:OE2	2.20	0.60
1:2:317:ARG:HD2	1:2:417:LEU:HD11	1.83	0.60
1:H:317:ARG:HD2	1:H:417:LEU:HD11	1.83	0.60
1:I:317:ARG:HD2	1:I:417:LEU:HD11	1.83	0.60
1:k:74:GLU:OE2	1:w:381:TYR:OH	2.20	0.60
1:1:317:ARG:HD2	1:1:417:LEU:HD11	1.83	0.60
1:3:317:ARG:HD2	1:3:417:LEU:HD11	1.83	0.60
1:8:154:VAL:CG2	1:8:167:TYR:CD1	2.81	0.60
1:B:154:VAL:CG2	1:B:167:TYR:CD1	2.81	0.59
1:j:118:TRP:HB2	1:j:449:TYR:O	2.02	0.59
1:u:74:GLU:OE2	1:5:381:TYR:OH	2.20	0.59
1:u:317:ARG:HD2	1:u:417:LEU:HD11	1.83	0.59
1:y:118:TRP:HB2	1:y:449:TYR:O	2.02	0.59
1:D:317:ARG:HD2	1:D:417:LEU:HD11	1.83	0.59
1:F:118:TRP:HB2	1:F:449:TYR:O	2.03	0.59
1:J:317:ARG:HD2	1:J:417:LEU:HD11	1.83	0.59
1:L:317:ARG:HD2	1:L:417:LEU:HD11	1.83	0.59
1:P:118:TRP:HB2	1:P:449:TYR:O	2.03	0.59
1:S:154:VAL:CG2	1:S:167:TYR:CD1	2.81	0.59
1:a:317:ARG:HD2	1:a:417:LEU:HD11	1.83	0.59
1:b:118:TRP:HB2	1:b:449:TYR:O	2.03	0.59
1:d:326:ARG:HH21	1:l:192:MET:HG3	1.68	0.59
1:f:118:TRP:HB2	1:f:449:TYR:O	2.02	0.59
1:k:317:ARG:HD2	1:k:417:LEU:HD11	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:317:ARG:HD2	1:z:417:LEU:HD11	1.83	0.59
1:5:317:ARG:HD2	1:5:417:LEU:HD11	1.83	0.59
1:E:192:MET:HG3	1:F:326:ARG:HH21	1.67	0.59
1:L:118:TRP:HB2	1:L:449:TYR:O	2.03	0.59
1:M:381:TYR:OH	1:N:74:GLU:OE2	2.20	0.59
1:N:118:TRP:HB2	1:N:449:TYR:O	2.03	0.59
1:O:192:MET:HG3	1:n:326:ARG:HH21	1.68	0.59
1:U:317:ARG:HD2	1:U:417:LEU:HD11	1.83	0.59
1:V:154:VAL:CG2	1:V:167:TYR:CD1	2.81	0.59
1:j:74:GLU:OE2	1:l:381:TYR:OH	2.20	0.59
1:n:317:ARG:HD2	1:n:417:LEU:HD11	1.83	0.59
1:t:118:TRP:HB2	1:t:449:TYR:O	2.02	0.59
1:w:569:MET:HB3	1:x:459:PRO:HA	1.84	0.59
1:z:118:TRP:HB2	1:z:449:TYR:O	2.03	0.59
1:1:154:VAL:CG2	1:1:167:TYR:CD1	2.81	0.59
1:2:381:TYR:OH	1:3:74:GLU:OE2	2.20	0.59
1:B:546:PHE:HA	1:B:555:GLU:O	2.03	0.59
1:C:317:ARG:HD2	1:C:417:LEU:HD11	1.83	0.59
1:E:118:TRP:HB2	1:E:449:TYR:O	2.03	0.59
1:G:118:TRP:HB2	1:G:449:TYR:O	2.03	0.59
1:G:569:MET:HB3	1:I:459:PRO:HA	1.85	0.59
1:I:118:TRP:HB2	1:I:449:TYR:O	2.03	0.59
1:K:546:PHE:HA	1:K:555:GLU:O	2.03	0.59
1:V:118:TRP:HB2	1:V:449:TYR:O	2.03	0.59
1:V:317:ARG:HD2	1:V:417:LEU:HD11	1.83	0.59
1:g:317:ARG:HD2	1:g:417:LEU:HD11	1.83	0.59
1:h:317:ARG:HD2	1:h:417:LEU:HD11	1.83	0.59
1:h:381:TYR:OH	1:i:74:GLU:OE2	2.20	0.59
1:i:118:TRP:HB2	1:i:449:TYR:O	2.03	0.59
1:m:381:TYR:OH	1:s:74:GLU:OE2	2.21	0.59
1:p:118:TRP:HB2	1:p:449:TYR:O	2.03	0.59
1:r:154:VAL:CG2	1:r:167:TYR:CD1	2.81	0.59
1:s:546:PHE:HA	1:s:555:GLU:O	2.03	0.59
1:u:118:TRP:HB2	1:u:449:TYR:O	2.02	0.59
1:w:118:TRP:HB2	1:w:449:TYR:O	2.03	0.59
1:1:546:PHE:HA	1:1:555:GLU:O	2.03	0.59
1:C:74:GLU:OE2	1:D:381:TYR:OH	2.20	0.59
1:G:317:ARG:HD2	1:G:417:LEU:HD11	1.83	0.59
1:J:381:TYR:OH	1:a:74:GLU:OE2	2.20	0.59
1:U:546:PHE:HA	1:U:555:GLU:O	2.03	0.59
1:b:546:PHE:HA	1:b:555:GLU:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:317:ARG:HD2	1:d:417:LEU:HD11	1.83	0.59
1:e:546:PHE:HA	1:e:555:GLU:O	2.03	0.59
1:f:74:GLU:OE2	1:z:381:TYR:OH	2.20	0.59
1:f:546:PHE:HA	1:f:555:GLU:O	2.03	0.59
1:k:118:TRP:HB2	1:k:449:TYR:O	2.02	0.59
1:p:317:ARG:HD2	1:p:417:LEU:HD11	1.83	0.59
1:s:317:ARG:HD2	1:s:417:LEU:HD11	1.83	0.59
1:t:317:ARG:HD2	1:t:417:LEU:HD11	1.83	0.59
1:w:192:MET:HG3	1:y:326:ARG:HH21	1.68	0.59
1:z:326:ARG:HH21	1:1:192:MET:HG3	1.68	0.59
1:4:546:PHE:HA	1:4:555:GLU:O	2.03	0.59
1:6:326:ARG:HH21	1:7:192:MET:HG3	1.68	0.59
1:B:192:MET:HG3	1:L:326:ARG:HH21	1.68	0.59
1:D:118:TRP:HB2	1:D:449:TYR:O	2.02	0.59
1:E:569:MET:HB3	1:Q:459:PRO:HA	1.85	0.59
1:M:192:MET:HG3	1:b:326:ARG:HH21	1.67	0.59
1:M:317:ARG:HD2	1:M:417:LEU:HD11	1.83	0.59
1:U:118:TRP:HB2	1:U:449:TYR:O	2.03	0.59
1:W:326:ARG:HH21	1:Y:192:MET:HG3	1.68	0.59
1:c:118:TRP:HB2	1:c:449:TYR:O	2.03	0.59
1:c:326:ARG:HH21	1:o:192:MET:HG3	1.68	0.59
1:c:546:PHE:HA	1:c:555:GLU:O	2.03	0.59
1:e:118:TRP:HB2	1:e:449:TYR:O	2.03	0.59
1:p:154:VAL:CG2	1:p:167:TYR:CD1	2.81	0.59
1:x:569:MET:HB3	1:y:459:PRO:HA	1.84	0.59
1:D:74:GLU:OE2	1:E:381:TYR:OH	2.21	0.59
1:F:459:PRO:HA	1:Q:569:MET:HB3	1.84	0.59
1:G:326:ARG:HH21	1:I:192:MET:HG3	1.68	0.59
1:H:192:MET:HG3	1:Y:326:ARG:HH21	1.68	0.59
1:O:381:TYR:OH	1:P:74:GLU:OE2	2.21	0.59
1:W:546:PHE:HA	1:W:555:GLU:O	2.03	0.59
1:X:192:MET:HG3	1:e:326:ARG:HH21	1.68	0.59
1:d:546:PHE:HA	1:d:555:GLU:O	2.03	0.59
1:g:546:PHE:HA	1:g:555:GLU:O	2.03	0.59
1:i:546:PHE:HA	1:i:555:GLU:O	2.03	0.59
1:p:381:TYR:OH	1:q:74:GLU:OE2	2.21	0.59
1:s:118:TRP:HB2	1:s:449:TYR:O	2.03	0.59
1:5:192:MET:HG3	1:7:326:ARG:HH21	1.68	0.59
1:6:546:PHE:HA	1:6:555:GLU:O	2.03	0.59
1:B:118:TRP:HB2	1:B:449:TYR:O	2.03	0.59
1:C:546:PHE:HA	1:C:555:GLU:O	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:381:TYR:OH	1:I:74:GLU:OE2	2.21	0.59
1:M:74:GLU:OE2	1:c:381:TYR:OH	2.21	0.59
1:N:546:PHE:HA	1:N:555:GLU:O	2.03	0.59
1:R:74:GLU:OE2	1:V:381:TYR:OH	2.21	0.59
1:R:154:VAL:CG2	1:R:167:TYR:CD1	2.81	0.59
1:V:192:MET:HG3	1:X:326:ARG:HH21	1.68	0.59
1:a:118:TRP:HB2	1:a:449:TYR:O	2.03	0.59
1:a:546:PHE:HA	1:a:555:GLU:O	2.03	0.59
1:n:546:PHE:HA	1:n:555:GLU:O	2.03	0.59
1:t:326:ARG:HH21	1:u:192:MET:HG3	1.68	0.59
1:1:118:TRP:HB2	1:1:449:TYR:O	2.03	0.59
1:3:546:PHE:HA	1:3:555:GLU:O	2.03	0.59
1:E:326:ARG:HH21	1:Q:192:MET:HG3	1.68	0.59
1:H:74:GLU:OE2	1:Z:381:TYR:OH	2.21	0.59
1:K:118:TRP:HB2	1:K:449:TYR:O	2.02	0.59
1:O:74:GLU:OE2	1:d:381:TYR:OH	2.21	0.59
1:T:546:PHE:HA	1:T:555:GLU:O	2.03	0.59
1:Y:118:TRP:HB2	1:Y:449:TYR:O	2.03	0.59
1:g:74:GLU:OE2	1:k:381:TYR:OH	2.21	0.59
1:g:118:TRP:HB2	1:g:449:TYR:O	2.03	0.59
1:m:546:PHE:HA	1:m:555:GLU:O	2.03	0.59
1:o:326:ARG:HH21	1:p:192:MET:HG3	1.68	0.59
1:q:154:VAL:CG2	1:q:167:TYR:CD1	2.81	0.59
1:r:317:ARG:HD2	1:r:417:LEU:HD11	1.83	0.59
1:v:118:TRP:HB2	1:v:449:TYR:O	2.03	0.59
1:w:459:PRO:HA	1:y:569:MET:HB3	1.85	0.59
1:3:118:TRP:HB2	1:3:449:TYR:O	2.03	0.59
1:7:118:TRP:HB2	1:7:449:TYR:O	2.03	0.59
1:A:118:TRP:HB2	1:A:449:TYR:O	2.03	0.59
1:B:326:ARG:HH21	1:J:192:MET:HG3	1.68	0.59
1:C:118:TRP:HB2	1:C:449:TYR:O	2.03	0.59
1:C:192:MET:HG3	1:M:326:ARG:HH21	1.67	0.59
1:D:192:MET:HG3	1:P:326:ARG:HH21	1.68	0.59
1:E:459:PRO:HA	1:F:569:MET:HB3	1.85	0.59
1:H:154:VAL:CG2	1:H:167:TYR:CD1	2.81	0.59
1:H:546:PHE:HA	1:H:555:GLU:O	2.03	0.59
1:L:381:TYR:OH	1:b:74:GLU:OE2	2.21	0.59
1:N:326:ARG:HH21	1:P:192:MET:HG3	1.68	0.59
1:R:546:PHE:HA	1:R:555:GLU:O	2.03	0.59
1:Z:118:TRP:HB2	1:Z:449:TYR:O	2.03	0.59
1:Z:326:ARG:HH21	1:4:192:MET:HG3	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:118:TRP:HB2	1:m:449:TYR:O	2.03	0.59
1:m:317:ARG:HD2	1:m:417:LEU:HD11	1.83	0.59
1:x:363:THR:H	1:y:235:LYS:HZ1	1.51	0.59
1:4:118:TRP:HB2	1:4:449:TYR:O	2.03	0.59
1:5:74:GLU:OE2	1:8:381:TYR:OH	2.21	0.59
1:5:546:PHE:HA	1:5:555:GLU:O	2.03	0.59
1:8:118:TRP:HB2	1:8:449:TYR:O	2.03	0.59
1:A:459:PRO:HA	1:I:569:MET:HB3	1.83	0.58
1:D:546:PHE:HA	1:D:555:GLU:O	2.03	0.58
1:E:50:TYR:CD1	1:E:55:VAL:HG22	2.38	0.58
1:F:546:PHE:HA	1:F:555:GLU:O	2.03	0.58
1:O:546:PHE:HA	1:O:555:GLU:O	2.03	0.58
1:Q:118:TRP:HB2	1:Q:449:TYR:O	2.03	0.58
1:R:50:TYR:CD1	1:R:55:VAL:HG22	2.38	0.58
1:S:317:ARG:HD2	1:S:417:LEU:HD11	1.83	0.58
1:S:546:PHE:HA	1:S:555:GLU:O	2.03	0.58
1:T:118:TRP:HB2	1:T:449:TYR:O	2.03	0.58
1:V:546:PHE:HA	1:V:555:GLU:O	2.03	0.58
1:Z:546:PHE:HA	1:Z:555:GLU:O	2.03	0.58
1:a:326:ARG:HH21	1:8:192:MET:HG3	1.68	0.58
1:i:326:ARG:HH21	1:j:192:MET:HG3	1.68	0.58
1:j:326:ARG:HH21	1:k:192:MET:HG3	1.68	0.58
1:j:569:MET:HB3	1:k:459:PRO:HA	1.85	0.58
1:k:546:PHE:HA	1:k:555:GLU:O	2.03	0.58
1:l:546:PHE:HA	1:l:555:GLU:O	2.03	0.58
1:q:50:TYR:CD1	1:q:55:VAL:HG22	2.38	0.58
1:x:546:PHE:HA	1:x:555:GLU:O	2.03	0.58
1:z:50:TYR:CD1	1:z:55:VAL:HG22	2.38	0.58
1:z:546:PHE:HA	1:z:555:GLU:O	2.03	0.58
1:1:326:ARG:HH21	1:2:192:MET:HG3	1.68	0.58
1:8:546:PHE:HA	1:8:555:GLU:O	2.03	0.58
1:F:50:TYR:CD1	1:F:55:VAL:HG22	2.39	0.58
1:H:326:ARG:HH21	1:W:192:MET:HG3	1.68	0.58
1:K:192:MET:HG3	1:8:326:ARG:HH21	1.68	0.58
1:L:546:PHE:HA	1:L:555:GLU:O	2.03	0.58
1:M:50:TYR:CD1	1:M:55:VAL:HG22	2.39	0.58
1:M:459:PRO:HA	1:b:569:MET:HB3	1.85	0.58
1:T:317:ARG:HD2	1:T:417:LEU:HD11	1.83	0.58
1:X:50:TYR:CD1	1:X:55:VAL:HG22	2.38	0.58
1:e:381:TYR:OH	1:h:74:GLU:OE2	2.21	0.58
1:f:569:MET:HB3	1:h:459:PRO:HA	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:50:TYR:CD1	1:h:55:VAL:HG22	2.38	0.58
1:j:546:PHE:HA	1:j:555:GLU:O	2.03	0.58
1:n:74:GLU:OE2	1:r:381:TYR:OH	2.20	0.58
1:n:141:HIS:NE2	1:n:518:ILE:HD12	2.19	0.58
1:p:546:PHE:HA	1:p:555:GLU:O	2.03	0.58
1:q:546:PHE:HA	1:q:555:GLU:O	2.03	0.58
1:r:546:PHE:HA	1:r:555:GLU:O	2.03	0.58
1:u:326:ARG:HH21	1:v:192:MET:HG3	1.68	0.58
1:u:546:PHE:HA	1:u:555:GLU:O	2.03	0.58
1:w:50:TYR:CD1	1:w:55:VAL:HG22	2.39	0.58
1:w:326:ARG:HH21	1:x:192:MET:HG3	1.68	0.58
1:y:50:TYR:CD1	1:y:55:VAL:HG22	2.39	0.58
1:y:546:PHE:HA	1:y:555:GLU:O	2.03	0.58
1:A:74:GLU:OE2	1:B:381:TYR:OH	2.20	0.58
1:A:326:ARG:HH21	1:G:192:MET:HG3	1.67	0.58
1:D:459:PRO:HA	1:P:569:MET:HB3	1.85	0.58
1:G:381:TYR:OH	1:W:74:GLU:OE2	2.21	0.58
1:I:546:PHE:HA	1:I:555:GLU:O	2.03	0.58
1:J:569:MET:HB3	1:L:459:PRO:HA	1.85	0.58
1:K:141:HIS:NE2	1:K:518:ILE:HD12	2.19	0.58
1:K:326:ARG:HH21	1:a:192:MET:HG3	1.68	0.58
1:L:50:TYR:CD1	1:L:55:VAL:HG22	2.39	0.58
1:Q:546:PHE:HA	1:Q:555:GLU:O	2.03	0.58
1:S:326:ARG:HH21	1:U:192:MET:HG3	1.68	0.58
1:T:74:GLU:OE2	1:i:381:TYR:OH	2.21	0.58
1:V:50:TYR:CD1	1:V:55:VAL:HG22	2.38	0.58
1:V:141:HIS:NE2	1:V:518:ILE:HD12	2.19	0.58
1:W:141:HIS:NE2	1:W:518:ILE:HD12	2.19	0.58
1:X:546:PHE:HA	1:X:555:GLU:O	2.03	0.58
1:Z:192:MET:HG3	1:3:326:ARG:HH21	1.68	0.58
1:a:50:TYR:CD1	1:a:55:VAL:HG22	2.39	0.58
1:c:74:GLU:OE2	1:s:381:TYR:OH	2.20	0.58
1:d:141:HIS:NE2	1:d:518:ILE:HD12	2.19	0.58
1:f:50:TYR:CD1	1:f:55:VAL:HG22	2.39	0.58
1:j:381:TYR:OH	1:x:74:GLU:OE2	2.21	0.58
1:o:50:TYR:CD1	1:o:55:VAL:HG22	2.39	0.58
1:p:50:TYR:CD1	1:p:55:VAL:HG22	2.38	0.58
1:p:74:GLU:OE2	1:6:381:TYR:OH	2.21	0.58
1:p:141:HIS:NE2	1:p:518:ILE:HD12	2.19	0.58
1:r:326:ARG:HH21	1:s:192:MET:HG3	1.68	0.58
1:t:381:TYR:OH	1:6:74:GLU:OE2	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:546:PHE:HA	1:v:555:GLU:O	2.03	0.58
1:x:118:TRP:HB2	1:x:449:TYR:O	2.03	0.58
1:z:459:PRO:HA	1:2:569:MET:HB3	1.85	0.58
1:z:569:MET:HB3	1:1:459:PRO:HA	1.85	0.58
1:3:50:TYR:CD1	1:3:55:VAL:HG22	2.39	0.58
1:4:141:HIS:NE2	1:4:518:ILE:HD12	2.19	0.58
1:5:326:ARG:HH21	1:6:192:MET:HG3	1.68	0.58
1:7:546:PHE:HA	1:7:555:GLU:O	2.03	0.58
1:B:141:HIS:NE2	1:B:518:ILE:HD12	2.19	0.58
1:C:141:HIS:NE2	1:C:518:ILE:HD12	2.19	0.58
1:D:569:MET:HB3	1:N:459:PRO:HA	1.85	0.58
1:F:235:LYS:HZ1	1:Q:363:THR:H	1.51	0.58
1:J:326:ARG:HH21	1:L:192:MET:HG3	1.68	0.58
1:J:546:PHE:HA	1:J:555:GLU:O	2.03	0.58
1:K:569:MET:HB3	1:a:459:PRO:HA	1.85	0.58
1:N:141:HIS:NE2	1:N:518:ILE:HD12	2.19	0.58
1:N:381:TYR:OH	1:m:74:GLU:OE2	2.21	0.58
1:P:381:TYR:OH	1:Q:74:GLU:OE2	2.21	0.58
1:P:546:PHE:HA	1:P:555:GLU:O	2.03	0.58
1:S:381:TYR:OH	1:d:74:GLU:OE2	2.20	0.58
1:S:569:MET:HB3	1:U:459:PRO:HA	1.85	0.58
1:U:141:HIS:NE2	1:U:518:ILE:HD12	2.19	0.58
1:U:381:TYR:OH	1:e:74:GLU:OE2	2.21	0.58
1:a:141:HIS:NE2	1:a:518:ILE:HD12	2.19	0.58
1:b:50:TYR:CD1	1:b:55:VAL:HG22	2.39	0.58
1:f:326:ARG:HH21	1:h:192:MET:HG3	1.68	0.58
1:g:50:TYR:CD1	1:g:55:VAL:HG22	2.38	0.58
1:g:141:HIS:NE2	1:g:518:ILE:HD12	2.19	0.58
1:i:141:HIS:NE2	1:i:518:ILE:HD12	2.19	0.58
1:i:459:PRO:HA	1:k:569:MET:HB3	1.85	0.58
1:l:74:GLU:OE2	1:n:381:TYR:OH	2.21	0.58
1:o:546:PHE:HA	1:o:555:GLU:O	2.03	0.58
1:r:569:MET:HB3	1:s:459:PRO:HA	1.85	0.58
1:v:74:GLU:OE2	1:1:381:TYR:OH	2.21	0.58
1:2:118:TRP:HB2	1:2:449:TYR:O	2.03	0.58
1:3:141:HIS:NE2	1:3:518:ILE:HD12	2.19	0.58
1:3:192:MET:HG3	1:4:326:ARG:HH21	1.68	0.58
1:3:459:PRO:HA	1:4:569:MET:HB3	1.85	0.58
1:5:459:PRO:HA	1:7:569:MET:HB3	1.85	0.58
1:6:141:HIS:NE2	1:6:518:ILE:HD12	2.19	0.58
1:A:546:PHE:HA	1:A:555:GLU:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:459:PRO:HA	1:L:569:MET:HB3	1.85	0.58
1:C:50:TYR:CD1	1:C:55:VAL:HG22	2.39	0.58
1:H:459:PRO:HA	1:Y:569:MET:HB3	1.85	0.58
1:J:118:TRP:HB2	1:J:449:TYR:O	2.03	0.58
1:K:381:TYR:OH	1:L:74:GLU:OE2	2.21	0.58
1:P:50:TYR:CD1	1:P:55:VAL:HG22	2.39	0.58
1:S:82:ARG:HH11	1:S:236:LYS:HD3	1.69	0.58
1:S:118:TRP:HB2	1:S:449:TYR:O	2.03	0.58
1:V:74:GLU:OE2	1:W:381:TYR:OH	2.21	0.58
1:Y:381:TYR:OH	1:4:74:GLU:OE2	2.21	0.58
1:Y:546:PHE:HA	1:Y:555:GLU:O	2.03	0.58
1:Z:50:TYR:CD1	1:Z:55:VAL:HG22	2.38	0.58
1:h:546:PHE:HA	1:h:555:GLU:O	2.03	0.58
1:j:50:TYR:CD1	1:j:55:VAL:HG22	2.38	0.58
1:q:118:TRP:HB2	1:q:449:TYR:O	2.03	0.58
1:s:141:HIS:NE2	1:s:518:ILE:HD12	2.19	0.58
1:t:192:MET:HG3	1:v:326:ARG:HH21	1.67	0.58
1:v:381:TYR:OH	1:w:74:GLU:OE2	2.20	0.58
1:z:192:MET:HG3	1:2:326:ARG:HH21	1.68	0.58
1:5:141:HIS:NE2	1:5:518:ILE:HD12	2.19	0.58
1:C:459:PRO:HA	1:M:569:MET:HB3	1.83	0.58
1:E:82:ARG:HH11	1:E:236:LYS:HD3	1.69	0.58
1:E:546:PHE:HA	1:E:555:GLU:O	2.03	0.58
1:H:141:HIS:NE2	1:H:518:ILE:HD12	2.19	0.58
1:N:569:MET:HB3	1:P:459:PRO:HA	1.85	0.58
1:Q:141:HIS:NE2	1:Q:518:ILE:HD12	2.19	0.58
1:R:118:TRP:HB2	1:R:449:TYR:O	2.03	0.58
1:R:431:ASP:OD1	1:R:432:TYR:N	2.37	0.58
1:T:326:ARG:HH21	1:d:192:MET:HG3	1.68	0.58
1:T:569:MET:HB3	1:d:459:PRO:HA	1.85	0.58
1:X:141:HIS:NE2	1:X:518:ILE:HD12	2.19	0.58
1:Y:141:HIS:NE2	1:Y:518:ILE:HD12	2.19	0.58
1:r:118:TRP:HB2	1:r:449:TYR:O	2.03	0.58
1:t:459:PRO:HA	1:v:569:MET:HB3	1.85	0.58
1:w:82:ARG:HH11	1:w:236:LYS:HD3	1.69	0.58
1:w:431:ASP:OD1	1:w:432:TYR:N	2.37	0.58
1:w:546:PHE:HA	1:w:555:GLU:O	2.03	0.58
1:z:74:GLU:OE2	1:4:381:TYR:OH	2.21	0.58
1:z:82:ARG:HH11	1:z:236:LYS:HD3	1.69	0.58
1:1:141:HIS:NE2	1:1:518:ILE:HD12	2.19	0.58
1:2:546:PHE:HA	1:2:555:GLU:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:141:HIS:NE2	1:7:518:ILE:HD12	2.19	0.58
1:8:50:TYR:CD1	1:8:55:VAL:HG22	2.38	0.58
1:A:50:TYR:CD1	1:A:55:VAL:HG22	2.39	0.58
1:E:431:ASP:OD1	1:E:432:TYR:N	2.37	0.58
1:G:141:HIS:NE2	1:G:518:ILE:HD12	2.19	0.58
1:H:118:TRP:HB2	1:H:449:TYR:O	2.03	0.58
1:M:546:PHE:HA	1:M:555:GLU:O	2.03	0.58
1:O:50:TYR:CD1	1:O:55:VAL:HG22	2.39	0.58
1:T:431:ASP:OD1	1:T:432:TYR:N	2.37	0.58
1:V:431:ASP:OD1	1:V:432:TYR:N	2.37	0.58
1:X:118:TRP:HB2	1:X:449:TYR:O	2.03	0.58
1:X:381:TYR:OH	1:Y:74:GLU:OE2	2.21	0.58
1:g:192:MET:HG3	1:h:326:ARG:HH21	1.68	0.58
1:i:569:MET:HB3	1:j:459:PRO:HA	1.85	0.58
1:o:141:HIS:NE2	1:o:518:ILE:HD12	2.19	0.58
1:p:431:ASP:OD1	1:p:432:TYR:N	2.37	0.58
1:q:381:TYR:OH	1:y:74:GLU:OE2	2.21	0.58
1:q:431:ASP:OD1	1:q:432:TYR:N	2.37	0.58
1:r:82:ARG:HH11	1:r:236:LYS:HD3	1.69	0.58
1:t:141:HIS:NE2	1:t:518:ILE:HD12	2.19	0.58
1:x:141:HIS:NE2	1:x:518:ILE:HD12	2.19	0.58
1:A:381:TYR:OH	1:E:74:GLU:OE2	2.21	0.58
1:F:74:GLU:OE2	1:R:381:TYR:OH	2.21	0.58
1:F:141:HIS:NE2	1:F:518:ILE:HD12	2.19	0.58
1:H:50:TYR:CD1	1:H:55:VAL:HG22	2.39	0.58
1:K:74:GLU:OE2	1:7:381:TYR:OH	2.21	0.58
1:K:459:PRO:HA	1:8:569:MET:HB3	1.85	0.58
1:L:82:ARG:HH11	1:L:236:LYS:HD3	1.69	0.58
1:M:141:HIS:NE2	1:M:518:ILE:HD12	2.19	0.58
1:O:118:TRP:HB2	1:O:449:TYR:O	2.03	0.58
1:Q:82:ARG:HH11	1:Q:236:LYS:HD3	1.69	0.58
1:R:459:PRO:HA	1:U:569:MET:HB3	1.85	0.58
1:Z:459:PRO:HA	1:3:569:MET:HB3	1.86	0.58
1:Z:569:MET:HB3	1:4:459:PRO:HA	1.85	0.58
1:a:82:ARG:HH11	1:a:236:LYS:HD3	1.69	0.58
1:a:569:MET:HB3	1:8:459:PRO:HA	1.86	0.58
1:b:141:HIS:NE2	1:b:518:ILE:HD12	2.19	0.58
1:c:82:ARG:HH11	1:c:236:LYS:HD3	1.69	0.58
1:c:569:MET:HB3	1:o:459:PRO:HA	1.85	0.58
1:e:82:ARG:HH11	1:e:236:LYS:HD3	1.69	0.58
1:f:141:HIS:NE2	1:f:518:ILE:HD12	2.19	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:50:TYR:CD1	1:l:55:VAL:HG22	2.39	0.58
1:m:326:ARG:HH21	1:n:192:MET:HG3	1.68	0.58
1:m:431:ASP:OD1	1:m:432:TYR:N	2.37	0.58
1:n:82:ARG:HH11	1:n:236:LYS:HD3	1.69	0.58
1:o:381:TYR:OH	1:7:74:GLU:OE2	2.21	0.58
1:q:459:PRO:HA	1:s:569:MET:HB3	1.85	0.58
1:t:569:MET:HB3	1:u:459:PRO:HA	1.86	0.58
1:u:50:TYR:CD1	1:u:55:VAL:HG22	2.39	0.58
1:v:50:TYR:CD1	1:v:55:VAL:HG22	2.39	0.58
1:z:141:HIS:NE2	1:z:518:ILE:HD12	2.19	0.58
1:5:50:TYR:CD1	1:5:55:VAL:HG22	2.38	0.58
1:5:118:TRP:HB2	1:5:449:TYR:O	2.03	0.58
1:A:569:MET:HB3	1:G:459:PRO:HA	1.85	0.58
1:I:50:TYR:CD1	1:I:55:VAL:HG22	2.39	0.58
1:I:82:ARG:HH11	1:I:236:LYS:HD3	1.69	0.58
1:I:431:ASP:OD1	1:I:432:TYR:N	2.37	0.58
1:L:141:HIS:NE2	1:L:518:ILE:HD12	2.19	0.58
1:S:363:THR:H	1:U:235:LYS:HZ1	1.52	0.58
1:W:50:TYR:CD1	1:W:55:VAL:HG22	2.39	0.58
1:c:141:HIS:NE2	1:c:518:ILE:HD12	2.19	0.58
1:d:431:ASP:OD1	1:d:432:TYR:N	2.37	0.58
1:e:141:HIS:NE2	1:e:518:ILE:HD12	2.19	0.58
1:e:154:VAL:CG2	1:e:167:TYR:CD1	2.81	0.58
1:f:192:MET:HG3	1:g:326:ARG:HH21	1.68	0.58
1:h:118:TRP:HB2	1:h:449:TYR:O	2.03	0.58
1:h:141:HIS:NE2	1:h:518:ILE:HD12	2.19	0.58
1:l:118:TRP:HB2	1:l:449:TYR:O	2.03	0.58
1:m:141:HIS:NE2	1:m:518:ILE:HD12	2.19	0.58
1:m:569:MET:HB3	1:n:459:PRO:HA	1.85	0.58
1:n:118:TRP:HB2	1:n:449:TYR:O	2.03	0.58
1:o:118:TRP:HB2	1:o:449:TYR:O	2.02	0.58
1:x:82:ARG:HH11	1:x:236:LYS:HD3	1.69	0.58
1:y:141:HIS:NE2	1:y:518:ILE:HD12	2.19	0.58
1:3:82:ARG:HH11	1:3:236:LYS:HD3	1.69	0.58
1:6:50:TYR:CD1	1:6:55:VAL:HG22	2.38	0.58
1:C:431:ASP:OD1	1:C:432:TYR:N	2.37	0.58
1:J:50:TYR:CD1	1:J:55:VAL:HG22	2.38	0.58
1:L:431:ASP:OD1	1:L:432:TYR:N	2.37	0.58
1:M:118:TRP:HB2	1:M:449:TYR:O	2.02	0.58
1:P:141:HIS:NE2	1:P:518:ILE:HD12	2.19	0.58
1:Q:50:TYR:CD1	1:Q:55:VAL:HG22	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:192:MET:HG3	1:l:326:ARG:HH21	1.68	0.58
1:W:118:TRP:HB2	1:W:449:TYR:O	2.03	0.58
1:Z:74:GLU:OE2	1:a:381:TYR:OH	2.21	0.58
1:d:82:ARG:HH11	1:d:236:LYS:HD3	1.69	0.58
1:d:118:TRP:HB2	1:d:449:TYR:O	2.03	0.58
1:g:431:ASP:OD1	1:g:432:TYR:N	2.37	0.58
1:j:141:HIS:NE2	1:j:518:ILE:HD12	2.19	0.58
1:n:431:ASP:OD1	1:n:432:TYR:N	2.37	0.58
1:q:192:MET:HG3	1:s:326:ARG:HH21	1.68	0.58
1:t:74:GLU:OE2	1:y:381:TYR:OH	2.21	0.58
1:u:82:ARG:HH11	1:u:236:LYS:HD3	1.69	0.58
1:2:50:TYR:CD1	1:2:55:VAL:HG22	2.38	0.58
1:2:141:HIS:NE2	1:2:518:ILE:HD12	2.19	0.58
1:3:381:TYR:OH	1:8:74:GLU:OE2	2.21	0.58
1:6:118:TRP:HB2	1:6:449:TYR:O	2.03	0.58
1:8:141:HIS:NE2	1:8:518:ILE:HD12	2.19	0.58
1:F:381:TYR:OH	1:G:74:GLU:OE2	2.21	0.57
1:G:431:ASP:OD1	1:G:432:TYR:N	2.37	0.57
1:I:315:GLY:HA3	1:I:417:LEU:O	2.04	0.57
1:J:141:HIS:NE2	1:J:518:ILE:HD12	2.19	0.57
1:M:82:ARG:HH11	1:M:236:LYS:HD3	1.69	0.57
1:O:326:ARG:HH21	1:m:192:MET:HG3	1.68	0.57
1:R:82:ARG:HH11	1:R:236:LYS:HD3	1.69	0.57
1:R:192:MET:HG3	1:U:326:ARG:HH21	1.68	0.57
1:R:569:MET:HB3	1:S:459:PRO:HA	1.85	0.57
1:S:50:TYR:CD1	1:S:55:VAL:HG22	2.38	0.57
1:T:141:HIS:NE2	1:T:518:ILE:HD12	2.19	0.57
1:X:459:PRO:HA	1:e:569:MET:HB3	1.86	0.57
1:Y:50:TYR:CD1	1:Y:55:VAL:HG22	2.38	0.57
1:q:569:MET:HB3	1:r:459:PRO:HA	1.85	0.57
1:s:82:ARG:HH11	1:s:236:LYS:HD3	1.69	0.57
1:u:431:ASP:OD1	1:u:432:TYR:N	2.37	0.57
1:z:154:VAL:CG2	1:z:167:TYR:CD1	2.81	0.57
1:z:431:ASP:OD1	1:z:432:TYR:N	2.37	0.57
1:7:50:TYR:CD1	1:7:55:VAL:HG22	2.38	0.57
1:A:82:ARG:HH11	1:A:236:LYS:HD3	1.69	0.57
1:D:326:ARG:HH21	1:N:192:MET:HG3	1.68	0.57
1:G:546:PHE:HA	1:G:555:GLU:O	2.03	0.57
1:K:50:TYR:CD1	1:K:55:VAL:HG22	2.38	0.57
1:O:82:ARG:HH11	1:O:236:LYS:HD3	1.69	0.57
1:O:459:PRO:HA	1:n:569:MET:HB3	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:431:ASP:OD1	1:S:432:TYR:N	2.37	0.57
1:Z:141:HIS:NE2	1:Z:518:ILE:HD12	2.19	0.57
1:c:154:VAL:CG2	1:c:167:TYR:CD1	2.81	0.57
1:g:75:TYR:OH	1:g:249:GLU:OE1	2.22	0.57
1:h:82:ARG:HH11	1:h:236:LYS:HD3	1.69	0.57
1:l:82:ARG:HH11	1:l:236:LYS:HD3	1.69	0.57
1:r:431:ASP:OD1	1:r:432:TYR:N	2.37	0.57
1:t:82:ARG:HH11	1:t:236:LYS:HD3	1.69	0.57
1:t:431:ASP:OD1	1:t:432:TYR:N	2.37	0.57
1:v:82:ARG:HH11	1:v:236:LYS:HD3	1.69	0.57
1:x:50:TYR:CD1	1:x:55:VAL:HG22	2.39	0.57
1:1:82:ARG:HH11	1:1:236:LYS:HD3	1.69	0.57
1:4:50:TYR:CD1	1:4:55:VAL:HG22	2.38	0.57
1:A:141:HIS:NE2	1:A:518:ILE:HD12	2.19	0.57
1:C:75:TYR:OH	1:C:249:GLU:OE1	2.22	0.57
1:F:431:ASP:OD1	1:F:432:TYR:N	2.37	0.57
1:G:50:TYR:CD1	1:G:55:VAL:HG22	2.38	0.57
1:L:154:VAL:CG2	1:L:167:TYR:CD1	2.81	0.57
1:W:154:VAL:CG2	1:W:167:TYR:CD1	2.81	0.57
1:X:315:GLY:HA3	1:X:417:LEU:O	2.05	0.57
1:Z:431:ASP:OD1	1:Z:432:TYR:N	2.37	0.57
1:c:50:TYR:CD1	1:c:55:VAL:HG22	2.39	0.57
1:d:569:MET:HB3	1:l:459:PRO:HA	1.86	0.57
1:f:459:PRO:HA	1:g:569:MET:HB3	1.85	0.57
1:h:75:TYR:OH	1:h:249:GLU:OE1	2.22	0.57
1:i:192:MET:HG3	1:k:326:ARG:HH21	1.68	0.57
1:q:326:ARG:HH21	1:r:192:MET:HG3	1.68	0.57
1:r:50:TYR:CD1	1:r:55:VAL:HG22	2.39	0.57
1:t:546:PHE:HA	1:t:555:GLU:O	2.03	0.57
1:u:315:GLY:HA3	1:u:417:LEU:O	2.05	0.57
1:8:431:ASP:OD1	1:8:432:TYR:N	2.37	0.57
1:B:74:GLU:OE2	1:C:381:TYR:OH	2.22	0.57
1:B:82:ARG:HH11	1:B:236:LYS:HD3	1.69	0.57
1:B:315:GLY:HA3	1:B:417:LEU:O	2.05	0.57
1:D:50:TYR:CD1	1:D:55:VAL:HG22	2.38	0.57
1:G:82:ARG:HH11	1:G:236:LYS:HD3	1.69	0.57
1:G:154:VAL:CG2	1:G:167:TYR:CD1	2.81	0.57
1:I:154:VAL:CG2	1:I:167:TYR:CD1	2.81	0.57
1:K:82:ARG:HH11	1:K:236:LYS:HD3	1.69	0.57
1:M:75:TYR:OH	1:M:249:GLU:OE1	2.22	0.57
1:R:326:ARG:HH21	1:S:192:MET:HG3	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:315:GLY:HA3	1:S:417:LEU:O	2.05	0.57
1:W:156:LYS:HG2	1:W:165:THR:HG22	1.87	0.57
1:W:431:ASP:OD1	1:W:432:TYR:N	2.37	0.57
1:Z:315:GLY:HA3	1:Z:417:LEU:O	2.05	0.57
1:e:50:TYR:CD1	1:e:55:VAL:HG22	2.39	0.57
1:f:315:GLY:HA3	1:f:417:LEU:O	2.05	0.57
1:o:315:GLY:HA3	1:o:417:LEU:O	2.05	0.57
1:q:75:TYR:OH	1:q:249:GLU:OE1	2.23	0.57
1:q:82:ARG:HH11	1:q:236:LYS:HD3	1.69	0.57
1:t:50:TYR:CD1	1:t:55:VAL:HG22	2.38	0.57
1:t:315:GLY:HA3	1:t:417:LEU:O	2.05	0.57
1:v:141:HIS:NE2	1:v:518:ILE:HD12	2.19	0.57
1:y:431:ASP:OD1	1:y:432:TYR:N	2.37	0.57
1:8:315:GLY:HA3	1:8:417:LEU:O	2.05	0.57
1:D:154:VAL:CG2	1:D:167:TYR:CD1	2.81	0.57
1:D:315:GLY:HA3	1:D:417:LEU:O	2.05	0.57
1:G:315:GLY:HA3	1:G:417:LEU:O	2.05	0.57
1:I:141:HIS:NE2	1:I:518:ILE:HD12	2.19	0.57
1:K:315:GLY:HA3	1:K:417:LEU:O	2.05	0.57
1:N:315:GLY:HA3	1:N:417:LEU:O	2.05	0.57
1:T:50:TYR:CD1	1:T:55:VAL:HG22	2.38	0.57
1:U:82:ARG:HH11	1:U:236:LYS:HD3	1.69	0.57
1:U:315:GLY:HA3	1:U:417:LEU:O	2.05	0.57
1:X:74:GLU:OE2	1:f:381:TYR:OH	2.21	0.57
1:Y:315:GLY:HA3	1:Y:417:LEU:O	2.05	0.57
1:a:315:GLY:HA3	1:a:417:LEU:O	2.05	0.57
1:b:315:GLY:HA3	1:b:417:LEU:O	2.05	0.57
1:c:75:TYR:OH	1:c:249:GLU:OE1	2.22	0.57
1:i:82:ARG:HH11	1:i:236:LYS:HD3	1.69	0.57
1:i:154:VAL:CG2	1:i:167:TYR:CD1	2.81	0.57
1:k:315:GLY:HA3	1:k:417:LEU:O	2.05	0.57
1:n:50:TYR:CD1	1:n:55:VAL:HG22	2.39	0.57
1:r:141:HIS:NE2	1:r:518:ILE:HD12	2.19	0.57
1:r:315:GLY:HA3	1:r:417:LEU:O	2.05	0.57
1:u:141:HIS:NE2	1:u:518:ILE:HD12	2.19	0.57
1:u:569:MET:HB3	1:v:459:PRO:HA	1.85	0.57
1:1:75:TYR:OH	1:1:249:GLU:OE1	2.22	0.57
1:1:315:GLY:HA3	1:1:417:LEU:O	2.05	0.57
1:4:82:ARG:HH11	1:4:236:LYS:HD3	1.69	0.57
1:6:154:VAL:CG2	1:6:167:TYR:CD1	2.81	0.57
1:6:156:LYS:HG2	1:6:165:THR:HG22	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:315:GLY:HA3	1:7:417:LEU:O	2.05	0.57
1:B:75:TYR:OH	1:B:249:GLU:OE1	2.23	0.57
1:I:517:LEU:HD12	1:I:517:LEU:O	2.05	0.57
1:N:50:TYR:CD1	1:N:55:VAL:HG22	2.38	0.57
1:N:82:ARG:HH11	1:N:236:LYS:HD3	1.69	0.57
1:N:154:VAL:CG2	1:N:167:TYR:CD1	2.81	0.57
1:N:431:ASP:OD1	1:N:432:TYR:N	2.37	0.57
1:S:141:HIS:NE2	1:S:518:ILE:HD12	2.19	0.57
1:b:381:TYR:OH	1:o:74:GLU:OE2	2.21	0.57
1:d:50:TYR:CD1	1:d:55:VAL:HG22	2.39	0.57
1:e:75:TYR:OH	1:e:249:GLU:OE1	2.22	0.57
1:i:50:TYR:CD1	1:i:55:VAL:HG22	2.39	0.57
1:i:315:GLY:HA3	1:i:417:LEU:O	2.05	0.57
1:k:50:TYR:CD1	1:k:55:VAL:HG22	2.39	0.57
1:k:517:LEU:O	1:k:517:LEU:HD12	2.05	0.57
1:m:50:TYR:CD1	1:m:55:VAL:HG22	2.39	0.57
1:s:315:GLY:HA3	1:s:417:LEU:O	2.05	0.57
1:3:315:GLY:HA3	1:3:417:LEU:O	2.05	0.57
1:6:82:ARG:HH11	1:6:236:LYS:HD3	1.69	0.57
1:6:431:ASP:OD1	1:6:432:TYR:N	2.37	0.57
1:C:244:GLN:HG2	1:M:528:GLN:OE1	2.04	0.57
1:D:517:LEU:HD12	1:D:517:LEU:O	2.05	0.57
1:F:315:GLY:HA3	1:F:417:LEU:O	2.05	0.57
1:F:517:LEU:HD12	1:F:517:LEU:O	2.05	0.57
1:M:431:ASP:OD1	1:M:432:TYR:N	2.37	0.57
1:N:156:LYS:HG2	1:N:165:THR:HG22	1.87	0.57
1:P:82:ARG:HH11	1:P:236:LYS:HD3	1.69	0.57
1:V:459:PRO:HA	1:X:569:MET:HB3	1.86	0.57
1:c:431:ASP:OD1	1:c:432:TYR:N	2.37	0.57
1:d:517:LEU:HD12	1:d:517:LEU:O	2.05	0.57
1:i:431:ASP:OD1	1:i:432:TYR:N	2.37	0.57
1:j:82:ARG:HH11	1:j:236:LYS:HD3	1.69	0.57
1:n:315:GLY:HA3	1:n:417:LEU:O	2.05	0.57
1:n:517:LEU:HD12	1:n:517:LEU:O	2.05	0.57
1:q:141:HIS:NE2	1:q:518:ILE:HD12	2.19	0.57
1:r:74:GLU:OE2	1:x:381:TYR:OH	2.22	0.57
1:t:154:VAL:CG2	1:t:167:TYR:CD1	2.81	0.57
1:u:517:LEU:HD12	1:u:517:LEU:O	2.05	0.57
1:4:315:GLY:HA3	1:4:417:LEU:O	2.05	0.57
1:D:141:HIS:NE2	1:D:518:ILE:HD12	2.19	0.57
1:F:82:ARG:HH11	1:F:236:LYS:HD3	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:156:LYS:HG2	1:G:165:THR:HG22	1.87	0.57
1:H:517:LEU:O	1:H:517:LEU:HD12	2.05	0.57
1:J:315:GLY:HA3	1:J:417:LEU:O	2.05	0.57
1:M:315:GLY:HA3	1:M:417:LEU:O	2.05	0.57
1:O:141:HIS:NE2	1:O:518:ILE:HD12	2.19	0.57
1:R:141:HIS:NE2	1:R:518:ILE:HD12	2.19	0.57
1:T:459:PRO:HA	1:l:569:MET:HB3	1.86	0.57
1:Y:82:ARG:HH11	1:Y:236:LYS:HD3	1.69	0.57
1:c:156:LYS:HG2	1:c:165:THR:HG22	1.87	0.57
1:c:459:PRO:HA	1:p:569:MET:HB3	1.85	0.57
1:d:315:GLY:HA3	1:d:417:LEU:O	2.05	0.57
1:e:315:GLY:HA3	1:e:417:LEU:O	2.05	0.57
1:e:431:ASP:OD1	1:e:432:TYR:N	2.37	0.57
1:g:459:PRO:HA	1:h:569:MET:HB3	1.85	0.57
1:j:156:LYS:HG2	1:j:165:THR:HG22	1.87	0.57
1:l:141:HIS:NE2	1:l:518:ILE:HD12	2.19	0.57
1:o:82:ARG:HH11	1:o:236:LYS:HD3	1.69	0.57
1:t:156:LYS:HG2	1:t:165:THR:HG22	1.87	0.57
1:u:156:LYS:HG2	1:u:165:THR:HG22	1.87	0.57
1:w:141:HIS:NE2	1:w:518:ILE:HD12	2.19	0.57
1:x:156:LYS:HG2	1:x:165:THR:HG22	1.87	0.57
1:y:315:GLY:HA3	1:y:417:LEU:O	2.05	0.57
1:2:315:GLY:HA3	1:2:417:LEU:O	2.05	0.57
1:4:75:TYR:OH	1:4:249:GLU:OE1	2.22	0.57
1:5:517:LEU:O	1:5:517:LEU:HD12	2.05	0.57
1:A:235:LYS:NZ	1:I:363:THR:H	2.03	0.57
1:H:82:ARG:HH11	1:H:236:LYS:HD3	1.69	0.57
1:H:569:MET:HB3	1:W:459:PRO:HA	1.85	0.57
1:I:156:LYS:HG2	1:I:165:THR:HG22	1.87	0.57
1:O:156:LYS:HG2	1:O:165:THR:HG22	1.87	0.57
1:O:569:MET:HB3	1:m:459:PRO:HA	1.86	0.57
1:P:156:LYS:HG2	1:P:165:THR:HG22	1.87	0.57
1:P:315:GLY:HA3	1:P:417:LEU:O	2.05	0.57
1:Q:156:LYS:HG2	1:Q:165:THR:HG22	1.87	0.57
1:R:315:GLY:HA3	1:R:417:LEU:O	2.05	0.57
1:U:50:TYR:CD1	1:U:55:VAL:HG22	2.38	0.57
1:V:82:ARG:HH11	1:V:236:LYS:HD3	1.69	0.57
1:W:82:ARG:HH11	1:W:236:LYS:HD3	1.69	0.57
1:X:82:ARG:HH11	1:X:236:LYS:HD3	1.69	0.57
1:X:431:ASP:OD1	1:X:432:TYR:N	2.37	0.57
1:a:517:LEU:HD12	1:a:517:LEU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:315:GLY:HA3	1:c:417:LEU:O	2.05	0.57
1:e:156:LYS:HG2	1:e:165:THR:HG22	1.87	0.57
1:f:517:LEU:HD12	1:f:517:LEU:O	2.05	0.57
1:h:315:GLY:HA3	1:h:417:LEU:O	2.05	0.57
1:h:431:ASP:OD1	1:h:432:TYR:N	2.37	0.57
1:i:156:LYS:HG2	1:i:165:THR:HG22	1.87	0.57
1:j:517:LEU:HD12	1:j:517:LEU:O	2.05	0.57
1:k:154:VAL:CG2	1:k:167:TYR:CD1	2.81	0.57
1:l:156:LYS:HG2	1:l:165:THR:HG22	1.87	0.57
1:o:569:MET:HB3	1:p:459:PRO:HA	1.86	0.57
1:y:517:LEU:HD12	1:y:517:LEU:O	2.05	0.57
1:5:82:ARG:HH11	1:5:236:LYS:HD3	1.69	0.57
1:5:569:MET:HB3	1:6:459:PRO:HA	1.85	0.57
1:7:82:ARG:HH11	1:7:236:LYS:HD3	1.69	0.57
1:B:569:MET:HB3	1:J:459:PRO:HA	1.85	0.57
1:D:82:ARG:HH11	1:D:236:LYS:HD3	1.69	0.57
1:E:141:HIS:NE2	1:E:518:ILE:HD12	2.19	0.57
1:H:315:GLY:HA3	1:H:417:LEU:O	2.05	0.57
1:J:517:LEU:HD12	1:J:517:LEU:O	2.05	0.57
1:K:156:LYS:HG2	1:K:165:THR:HG22	1.87	0.57
1:P:517:LEU:O	1:P:517:LEU:HD12	2.05	0.57
1:R:517:LEU:HD12	1:R:517:LEU:O	2.05	0.57
1:V:315:GLY:HA3	1:V:417:LEU:O	2.05	0.57
1:V:569:MET:HB3	1:e:459:PRO:HA	1.86	0.57
1:X:517:LEU:O	1:X:517:LEU:HD12	2.05	0.57
1:Z:517:LEU:HD12	1:Z:517:LEU:O	2.05	0.57
1:b:517:LEU:HD12	1:b:517:LEU:O	2.05	0.57
1:j:315:GLY:HA3	1:j:417:LEU:O	2.05	0.57
1:k:82:ARG:HH11	1:k:236:LYS:HD3	1.69	0.57
1:k:141:HIS:NE2	1:k:518:ILE:HD12	2.19	0.57
1:q:315:GLY:HA3	1:q:417:LEU:O	2.05	0.57
1:q:517:LEU:HD12	1:q:517:LEU:O	2.05	0.57
1:y:82:ARG:HH11	1:y:236:LYS:HD3	1.69	0.57
1:1:50:TYR:CD1	1:1:55:VAL:HG22	2.38	0.57
1:1:569:MET:HB3	1:2:459:PRO:HA	1.85	0.57
1:2:517:LEU:O	1:2:517:LEU:HD12	2.05	0.57
1:3:517:LEU:HD12	1:3:517:LEU:O	2.05	0.57
1:4:156:LYS:HG2	1:4:165:THR:HG22	1.87	0.57
1:6:569:MET:HB3	1:7:459:PRO:HA	1.85	0.57
1:8:517:LEU:HD12	1:8:517:LEU:O	2.05	0.57
1:B:50:TYR:CD1	1:B:55:VAL:HG22	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:75:TYR:OH	1:E:249:GLU:OE1	2.22	0.56
1:E:156:LYS:HG2	1:E:165:THR:HG22	1.87	0.56
1:E:235:LYS:HZ1	1:F:363:THR:H	1.53	0.56
1:H:156:LYS:HG2	1:H:165:THR:HG22	1.87	0.56
1:K:75:TYR:OH	1:K:249:GLU:OE1	2.22	0.56
1:L:156:LYS:HG2	1:L:165:THR:HG22	1.87	0.56
1:L:315:GLY:HA3	1:L:417:LEU:O	2.05	0.56
1:T:315:GLY:HA3	1:T:417:LEU:O	2.05	0.56
1:U:517:LEU:O	1:U:517:LEU:HD12	2.05	0.56
1:V:326:ARG:HH21	1:e:192:MET:HG3	1.68	0.56
1:W:517:LEU:HD12	1:W:517:LEU:O	2.05	0.56
1:b:156:LYS:HG2	1:b:165:THR:HG22	1.87	0.56
1:b:431:ASP:OD1	1:b:432:TYR:N	2.37	0.56
1:f:156:LYS:HG2	1:f:165:THR:HG22	1.87	0.56
1:m:315:GLY:HA3	1:m:417:LEU:O	2.05	0.56
1:o:431:ASP:OD1	1:o:432:TYR:N	2.37	0.56
1:p:315:GLY:HA3	1:p:417:LEU:O	2.05	0.56
1:s:517:LEU:O	1:s:517:LEU:HD12	2.05	0.56
1:t:145:THR:HG1	1:t:514:THR:HG1	1.53	0.56
1:w:75:TYR:OH	1:w:249:GLU:OE1	2.22	0.56
1:x:517:LEU:HD12	1:x:517:LEU:O	2.05	0.56
1:5:315:GLY:HA3	1:5:417:LEU:O	2.05	0.56
1:8:75:TYR:OH	1:8:249:GLU:OE1	2.22	0.56
1:B:517:LEU:HD12	1:B:517:LEU:O	2.05	0.56
1:L:517:LEU:HD12	1:L:517:LEU:O	2.05	0.56
1:P:431:ASP:OD1	1:P:432:TYR:N	2.37	0.56
1:Q:381:TYR:OH	1:S:74:GLU:OE2	2.22	0.56
1:Q:517:LEU:HD12	1:Q:517:LEU:O	2.05	0.56
1:U:156:LYS:HG2	1:U:165:THR:HG22	1.87	0.56
1:c:192:MET:HG3	1:p:326:ARG:HH21	1.68	0.56
1:f:82:ARG:HH11	1:f:236:LYS:HD3	1.69	0.56
1:f:431:ASP:OD1	1:f:432:TYR:N	2.37	0.56
1:m:156:LYS:HG2	1:m:165:THR:HG22	1.87	0.56
1:o:154:VAL:CG2	1:o:167:TYR:CD1	2.81	0.56
1:o:517:LEU:HD12	1:o:517:LEU:O	2.05	0.56
1:p:82:ARG:HH11	1:p:236:LYS:HD3	1.69	0.56
1:s:50:TYR:CD1	1:s:55:VAL:HG22	2.39	0.56
1:w:156:LYS:HG2	1:w:165:THR:HG22	1.87	0.56
1:x:315:GLY:HA3	1:x:417:LEU:O	2.05	0.56
1:z:315:GLY:HA3	1:z:417:LEU:O	2.05	0.56
1:1:517:LEU:HD12	1:1:517:LEU:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:517:LEU:HD12	1:6:517:LEU:O	2.05	0.56
1:A:156:LYS:HG2	1:A:165:THR:HG22	1.87	0.56
1:A:431:ASP:OD1	1:A:432:TYR:N	2.37	0.56
1:B:431:ASP:OD1	1:B:432:TYR:N	2.37	0.56
1:C:82:ARG:HH11	1:C:236:LYS:HD3	1.69	0.56
1:M:517:LEU:O	1:M:517:LEU:HD12	2.05	0.56
1:Q:315:GLY:HA3	1:Q:417:LEU:O	2.05	0.56
1:Q:431:ASP:OD1	1:Q:432:TYR:N	2.37	0.56
1:W:569:MET:HB3	1:Y:459:PRO:HA	1.85	0.56
1:X:154:VAL:CG2	1:X:167:TYR:CD1	2.81	0.56
1:Y:156:LYS:HG2	1:Y:165:THR:HG22	1.87	0.56
1:g:82:ARG:HH11	1:g:236:LYS:HD3	1.69	0.56
1:h:517:LEU:O	1:h:517:LEU:HD12	2.05	0.56
1:j:431:ASP:OD1	1:j:432:TYR:N	2.37	0.56
1:r:156:LYS:HG2	1:r:165:THR:HG22	1.87	0.56
1:s:156:LYS:HG2	1:s:165:THR:HG22	1.87	0.56
1:t:517:LEU:HD12	1:t:517:LEU:O	2.05	0.56
1:z:156:LYS:HG2	1:z:165:THR:HG22	1.87	0.56
1:z:517:LEU:HD12	1:z:517:LEU:O	2.05	0.56
1:2:82:ARG:HH11	1:2:236:LYS:HD3	1.69	0.56
1:3:156:LYS:HG2	1:3:165:THR:HG22	1.87	0.56
1:5:156:LYS:HG2	1:5:165:THR:HG22	1.87	0.56
1:7:156:LYS:HG2	1:7:165:THR:HG22	1.87	0.56
1:C:517:LEU:HD12	1:C:517:LEU:O	2.05	0.56
1:G:517:LEU:HD12	1:G:517:LEU:O	2.05	0.56
1:I:381:TYR:OH	1:J:74:GLU:OE2	2.22	0.56
1:J:431:ASP:OD1	1:J:432:TYR:N	2.37	0.56
1:O:431:ASP:OD1	1:O:432:TYR:N	2.37	0.56
1:S:75:TYR:OH	1:S:249:GLU:OE1	2.22	0.56
1:T:156:LYS:HG2	1:T:165:THR:HG22	1.87	0.56
1:a:156:LYS:HG2	1:a:165:THR:HG22	1.87	0.56
1:b:82:ARG:HH11	1:b:236:LYS:HD3	1.69	0.56
1:c:517:LEU:HD12	1:c:517:LEU:O	2.05	0.56
1:g:517:LEU:HD12	1:g:517:LEU:O	2.05	0.56
1:r:75:TYR:OH	1:r:249:GLU:OE1	2.22	0.56
1:v:156:LYS:HG2	1:v:165:THR:HG22	1.87	0.56
1:w:315:GLY:HA3	1:w:417:LEU:O	2.05	0.56
1:x:431:ASP:OD1	1:x:432:TYR:N	2.37	0.56
1:6:315:GLY:HA3	1:6:417:LEU:O	2.05	0.56
1:S:156:LYS:HG2	1:S:165:THR:HG22	1.87	0.56
1:T:82:ARG:HH11	1:T:236:LYS:HD3	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:517:LEU:HD12	1:V:517:LEU:O	2.05	0.56
1:W:315:GLY:HA3	1:W:417:LEU:O	2.05	0.56
1:e:517:LEU:HD12	1:e:517:LEU:O	2.05	0.56
1:g:315:GLY:HA3	1:g:417:LEU:O	2.05	0.56
1:l:431:ASP:OD1	1:l:432:TYR:N	2.37	0.56
1:m:82:ARG:HH11	1:m:236:LYS:HD3	1.69	0.56
1:v:315:GLY:HA3	1:v:417:LEU:O	2.05	0.56
1:v:431:ASP:OD1	1:v:432:TYR:N	2.37	0.56
1:1:431:ASP:OD1	1:1:432:TYR:N	2.37	0.56
1:2:431:ASP:OD1	1:2:432:TYR:N	2.37	0.56
1:5:431:ASP:OD1	1:5:432:TYR:N	2.37	0.56
1:C:315:GLY:HA3	1:C:417:LEU:O	2.05	0.56
1:K:517:LEU:HD12	1:K:517:LEU:O	2.05	0.56
1:Y:517:LEU:HD12	1:Y:517:LEU:O	2.05	0.56
1:Z:82:ARG:HH11	1:Z:236:LYS:HD3	1.69	0.56
1:o:156:LYS:HG2	1:o:165:THR:HG22	1.87	0.56
1:A:315:GLY:HA3	1:A:417:LEU:O	2.05	0.56
1:E:315:GLY:HA3	1:E:417:LEU:O	2.05	0.56
1:H:431:ASP:OD1	1:H:432:TYR:N	2.37	0.56
1:J:82:ARG:HH11	1:J:236:LYS:HD3	1.69	0.56
1:O:145:THR:HG1	1:O:514:THR:HG1	1.51	0.56
1:l:315:GLY:HA3	1:l:417:LEU:O	2.05	0.56
1:u:381:TYR:OH	1:2:74:GLU:OE2	2.23	0.56
1:v:517:LEU:HD12	1:v:517:LEU:O	2.05	0.56
1:7:517:LEU:HD12	1:7:517:LEU:O	2.05	0.56
1:A:517:LEU:HD12	1:A:517:LEU:O	2.05	0.56
1:O:315:GLY:HA3	1:O:417:LEU:O	2.05	0.56
1:P:75:TYR:OH	1:P:249:GLU:OE1	2.22	0.56
1:T:517:LEU:HD12	1:T:517:LEU:O	2.05	0.56
1:U:431:ASP:OD1	1:U:432:TYR:N	2.37	0.56
1:Y:145:THR:HG1	1:Y:514:THR:HG1	1.51	0.56
1:d:156:LYS:HG2	1:d:165:THR:HG22	1.87	0.56
1:m:517:LEU:HD12	1:m:517:LEU:O	2.05	0.56
1:p:517:LEU:O	1:p:517:LEU:HD12	2.05	0.56
1:s:431:ASP:OD1	1:s:432:TYR:N	2.37	0.56
1:8:82:ARG:HH11	1:8:236:LYS:HD3	1.69	0.56
1:N:517:LEU:HD12	1:N:517:LEU:O	2.05	0.56
1:R:156:LYS:HG2	1:R:165:THR:HG22	1.87	0.56
1:X:156:LYS:HG2	1:X:165:THR:HG22	1.87	0.56
1:i:517:LEU:HD12	1:i:517:LEU:O	2.05	0.56
1:n:156:LYS:HG2	1:n:165:THR:HG22	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:156:LYS:HG2	1:q:165:THR:HG22	1.87	0.56
1:2:156:LYS:HG2	1:2:165:THR:HG22	1.87	0.56
1:4:517:LEU:HD12	1:4:517:LEU:O	2.05	0.56
1:O:517:LEU:HD12	1:O:517:LEU:O	2.05	0.56
1:S:517:LEU:HD12	1:S:517:LEU:O	2.05	0.56
1:A:235:LYS:HZ1	1:I:363:THR:H	1.54	0.55
1:D:156:LYS:HG2	1:D:165:THR:HG22	1.87	0.55
1:D:431:ASP:OD1	1:D:432:TYR:N	2.37	0.55
1:j:75:TYR:OH	1:j:249:GLU:OE1	2.23	0.55
1:w:490:ASN:O	1:w:505:ILE:N	2.37	0.55
1:F:156:LYS:HG2	1:F:165:THR:HG22	1.87	0.55
1:M:156:LYS:HG2	1:M:165:THR:HG22	1.87	0.55
1:V:156:LYS:HG2	1:V:165:THR:HG22	1.87	0.55
1:Y:431:ASP:OD1	1:Y:432:TYR:N	2.37	0.55
1:k:156:LYS:HG2	1:k:165:THR:HG22	1.87	0.55
1:l:517:LEU:HD12	1:l:517:LEU:O	2.05	0.55
1:y:156:LYS:HG2	1:y:165:THR:HG22	1.87	0.55
1:4:431:ASP:OD1	1:4:432:TYR:N	2.37	0.55
1:5:490:ASN:O	1:5:505:ILE:N	2.37	0.55
1:8:156:LYS:HG2	1:8:165:THR:HG22	1.87	0.55
1:B:156:LYS:HG2	1:B:165:THR:HG22	1.87	0.55
1:E:490:ASN:O	1:E:505:ILE:N	2.37	0.55
1:J:156:LYS:HG2	1:J:165:THR:HG22	1.87	0.55
1:Z:156:LYS:HG2	1:Z:165:THR:HG22	1.87	0.55
1:h:156:LYS:HG2	1:h:165:THR:HG22	1.87	0.55
1:k:431:ASP:OD1	1:k:432:TYR:N	2.37	0.55
1:p:156:LYS:HG2	1:p:165:THR:HG22	1.87	0.55
1:r:517:LEU:HD12	1:r:517:LEU:O	2.05	0.55
1:1:156:LYS:HG2	1:1:165:THR:HG22	1.87	0.55
1:3:431:ASP:OD1	1:3:432:TYR:N	2.37	0.55
1:E:517:LEU:O	1:E:517:LEU:HD12	2.05	0.55
1:K:431:ASP:OD1	1:K:432:TYR:N	2.37	0.55
1:U:154:VAL:CG2	1:U:167:TYR:CD1	2.81	0.55
1:a:431:ASP:OD1	1:a:432:TYR:N	2.37	0.55
1:C:156:LYS:HG2	1:C:165:THR:HG22	1.87	0.55
1:C:254:ILE:HB	1:D:42:TYR:HB3	1.88	0.55
1:C:311:GLY:HA2	1:b:194:LEU:HD13	1.89	0.55
1:C:339:TRP:HA	1:C:339:TRP:CE3	2.42	0.55
1:D:75:TYR:OH	1:D:249:GLU:OE1	2.23	0.55
1:H:59:CYS:HB2	1:H:517:LEU:HD12	1.89	0.55
1:M:235:LYS:HZ1	1:b:363:THR:H	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:59:CYS:HB2	1:S:517:LEU:HD12	1.89	0.55
1:s:154:VAL:CG2	1:s:167:TYR:CD1	2.81	0.55
1:5:59:CYS:HB2	1:5:517:LEU:HD12	1.89	0.55
1:7:431:ASP:OD1	1:7:432:TYR:N	2.37	0.55
1:C:528:GLN:OE1	1:b:244:GLN:HG2	2.06	0.55
1:F:235:LYS:NZ	1:Q:363:THR:H	2.03	0.55
1:O:75:TYR:OH	1:O:249:GLU:OE1	2.22	0.55
1:R:59:CYS:HB2	1:R:517:LEU:HD12	1.89	0.55
1:W:339:TRP:HA	1:W:339:TRP:CE3	2.42	0.55
1:g:156:LYS:HG2	1:g:165:THR:HG22	1.87	0.55
1:g:339:TRP:HA	1:g:339:TRP:CE3	2.42	0.55
1:q:59:CYS:HB2	1:q:517:LEU:HD12	1.89	0.55
1:r:59:CYS:HB2	1:r:517:LEU:HD12	1.89	0.55
1:w:517:LEU:HD12	1:w:517:LEU:O	2.05	0.55
1:6:339:TRP:HA	1:6:339:TRP:CE3	2.42	0.55
1:B:254:ILE:HB	1:C:42:TYR:HB3	1.88	0.55
1:N:339:TRP:HA	1:N:339:TRP:CE3	2.42	0.55
1:R:490:ASN:O	1:R:505:ILE:N	2.37	0.55
1:V:59:CYS:HB2	1:V:517:LEU:HD12	1.89	0.55
1:f:59:CYS:HB2	1:f:517:LEU:HD12	1.89	0.55
1:i:339:TRP:HA	1:i:339:TRP:CE3	2.42	0.55
1:k:75:TYR:OH	1:k:249:GLU:OE1	2.22	0.55
1:p:59:CYS:HB2	1:p:517:LEU:HD12	1.89	0.55
1:x:363:THR:H	1:y:235:LYS:NZ	2.03	0.55
1:D:59:CYS:HB2	1:D:517:LEU:HD12	1.89	0.55
1:E:59:CYS:HB2	1:E:517:LEU:HD12	1.89	0.55
1:M:59:CYS:HB2	1:M:517:LEU:HD12	1.89	0.55
1:U:339:TRP:CE3	1:U:339:TRP:HA	2.42	0.55
1:W:59:CYS:HB2	1:W:517:LEU:HD12	1.89	0.55
1:Z:453:ALA:H	1:Z:470:HIS:HE1	1.55	0.55
1:k:59:CYS:HB2	1:k:517:LEU:HD12	1.89	0.55
1:l:75:TYR:OH	1:l:249:GLU:OE1	2.22	0.55
1:q:490:ASN:O	1:q:505:ILE:N	2.37	0.55
1:r:137:VAL:HG21	1:r:519:LEU:HD23	1.89	0.55
1:s:339:TRP:HA	1:s:339:TRP:CE3	2.42	0.55
1:u:339:TRP:CE3	1:u:339:TRP:HA	2.42	0.55
1:w:59:CYS:HB2	1:w:517:LEU:HD12	1.89	0.55
1:z:490:ASN:O	1:z:505:ILE:N	2.37	0.55
1:4:339:TRP:HA	1:4:339:TRP:CE3	2.42	0.55
1:6:59:CYS:HB2	1:6:517:LEU:HD12	1.89	0.55
1:8:453:ALA:H	1:8:470:HIS:HE1	1.55	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:59:CYS:HB2	1:C:517:LEU:HD12	1.89	0.55
1:F:194:LEU:HD13	1:Q:311:GLY:HA2	1.89	0.55
1:I:339:TRP:HA	1:I:339:TRP:CE3	2.42	0.55
1:L:490:ASN:O	1:L:505:ILE:N	2.37	0.55
1:M:339:TRP:CE3	1:M:339:TRP:HA	2.42	0.55
1:T:137:VAL:HG21	1:T:519:LEU:HD23	1.89	0.55
1:b:59:CYS:HB2	1:b:517:LEU:HD12	1.89	0.55
1:h:59:CYS:HB2	1:h:517:LEU:HD12	1.89	0.55
1:h:339:TRP:CE3	1:h:339:TRP:HA	2.42	0.55
1:m:137:VAL:HG21	1:m:519:LEU:HD23	1.89	0.55
1:x:311:GLY:HA2	1:y:194:LEU:HD13	1.89	0.55
1:3:59:CYS:HB2	1:3:517:LEU:HD12	1.89	0.55
1:3:339:TRP:HA	1:3:339:TRP:CE3	2.42	0.55
1:E:339:TRP:CE3	1:E:339:TRP:HA	2.42	0.55
1:N:75:TYR:OH	1:N:249:GLU:OE1	2.22	0.55
1:O:339:TRP:HA	1:O:339:TRP:CE3	2.42	0.55
1:R:339:TRP:CE3	1:R:339:TRP:HA	2.42	0.55
1:S:137:VAL:HG21	1:S:519:LEU:HD23	1.89	0.55
1:S:453:ALA:H	1:S:470:HIS:HE1	1.55	0.55
1:a:59:CYS:HB2	1:a:517:LEU:HD12	1.89	0.55
1:a:339:TRP:HA	1:a:339:TRP:CE3	2.42	0.55
1:t:528:GLN:OE1	1:u:244:GLN:HG2	2.07	0.55
1:2:339:TRP:CE3	1:2:339:TRP:HA	2.42	0.55
1:7:75:TYR:OH	1:7:249:GLU:OE1	2.22	0.55
1:7:490:ASN:O	1:7:505:ILE:N	2.37	0.55
1:D:63:ARG:NH1	1:D:201:PRO:HA	2.23	0.54
1:H:453:ALA:H	1:H:470:HIS:HE1	1.55	0.54
1:K:339:TRP:HA	1:K:339:TRP:CE3	2.42	0.54
1:M:235:LYS:NZ	1:b:363:THR:H	2.05	0.54
1:Q:59:CYS:HB2	1:Q:517:LEU:HD12	1.89	0.54
1:k:63:ARG:NH1	1:k:201:PRO:HA	2.23	0.54
1:l:339:TRP:HA	1:l:339:TRP:CE3	2.42	0.54
1:p:137:VAL:HG21	1:p:519:LEU:HD23	1.89	0.54
1:x:59:CYS:HB2	1:x:517:LEU:HD12	1.89	0.54
1:2:59:CYS:HB2	1:2:517:LEU:HD12	1.89	0.54
1:5:453:ALA:H	1:5:470:HIS:HE1	1.55	0.54
1:A:194:LEU:HD13	1:I:311:GLY:HA2	1.89	0.54
1:A:339:TRP:HA	1:A:339:TRP:CE3	2.42	0.54
1:A:453:ALA:H	1:A:470:HIS:HE1	1.55	0.54
1:J:59:CYS:HB2	1:J:517:LEU:HD12	1.89	0.54
1:J:339:TRP:CE3	1:J:339:TRP:HA	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:453:ALA:H	1:K:470:HIS:HE1	1.55	0.54
1:L:339:TRP:HA	1:L:339:TRP:CE3	2.42	0.54
1:M:453:ALA:H	1:M:470:HIS:HE1	1.55	0.54
1:V:137:VAL:HG21	1:V:519:LEU:HD23	1.89	0.54
1:X:59:CYS:HB2	1:X:517:LEU:HD12	1.89	0.54
1:Y:490:ASN:O	1:Y:505:ILE:N	2.37	0.54
1:f:339:TRP:HA	1:f:339:TRP:CE3	2.42	0.54
1:g:59:CYS:HB2	1:g:517:LEU:HD12	1.89	0.54
1:k:339:TRP:HA	1:k:339:TRP:CE3	2.42	0.54
1:q:339:TRP:HA	1:q:339:TRP:CE3	2.42	0.54
1:r:453:ALA:H	1:r:470:HIS:HE1	1.55	0.54
1:v:339:TRP:HA	1:v:339:TRP:CE3	2.42	0.54
1:v:453:ALA:H	1:v:470:HIS:HE1	1.55	0.54
1:z:339:TRP:HA	1:z:339:TRP:CE3	2.42	0.54
1:3:63:ARG:NH1	1:3:201:PRO:HA	2.23	0.54
1:4:453:ALA:H	1:4:470:HIS:HE1	1.55	0.54
1:6:453:ALA:H	1:6:470:HIS:HE1	1.55	0.54
1:8:63:ARG:NH1	1:8:201:PRO:HA	2.23	0.54
1:A:63:ARG:NH1	1:A:201:PRO:HA	2.23	0.54
1:R:63:ARG:NH1	1:R:201:PRO:HA	2.23	0.54
1:S:63:ARG:NH1	1:S:201:PRO:HA	2.23	0.54
1:S:339:TRP:HA	1:S:339:TRP:CE3	2.42	0.54
1:U:137:VAL:HG21	1:U:519:LEU:HD23	1.89	0.54
1:V:63:ARG:NH1	1:V:201:PRO:HA	2.23	0.54
1:W:63:ARG:NH1	1:W:201:PRO:HA	2.23	0.54
1:a:63:ARG:NH1	1:a:201:PRO:HA	2.23	0.54
1:b:339:TRP:CE3	1:b:339:TRP:HA	2.42	0.54
1:f:75:TYR:OH	1:f:249:GLU:OE1	2.22	0.54
1:i:75:TYR:OH	1:i:249:GLU:OE1	2.23	0.54
1:o:59:CYS:HB2	1:o:517:LEU:HD12	1.89	0.54
1:p:63:ARG:NH1	1:p:201:PRO:HA	2.23	0.54
1:q:63:ARG:NH1	1:q:201:PRO:HA	2.23	0.54
1:s:137:VAL:HG21	1:s:519:LEU:HD23	1.89	0.54
1:t:363:THR:H	1:u:235:LYS:NZ	2.05	0.54
1:w:339:TRP:HA	1:w:339:TRP:CE3	2.42	0.54
1:y:339:TRP:HA	1:y:339:TRP:CE3	2.42	0.54
1:C:63:ARG:NH1	1:C:201:PRO:HA	2.23	0.54
1:D:339:TRP:HA	1:D:339:TRP:CE3	2.42	0.54
1:G:339:TRP:HA	1:G:339:TRP:CE3	2.42	0.54
1:G:528:GLN:OE1	1:I:244:GLN:HG2	2.08	0.54
1:L:59:CYS:HB2	1:L:517:LEU:HD12	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:453:ALA:H	1:W:470:HIS:HE1	1.55	0.54
1:Z:63:ARG:NH1	1:Z:201:PRO:HA	2.23	0.54
1:Z:339:TRP:CE3	1:Z:339:TRP:HA	2.42	0.54
1:b:63:ARG:NH1	1:b:201:PRO:HA	2.23	0.54
1:b:75:TYR:OH	1:b:249:GLU:OE1	2.22	0.54
1:f:63:ARG:NH1	1:f:201:PRO:HA	2.23	0.54
1:h:453:ALA:H	1:h:470:HIS:HE1	1.55	0.54
1:p:453:ALA:H	1:p:470:HIS:HE1	1.55	0.54
1:r:339:TRP:HA	1:r:339:TRP:CE3	2.42	0.54
1:t:339:TRP:HA	1:t:339:TRP:CE3	2.42	0.54
1:v:63:ARG:NH1	1:v:201:PRO:HA	2.23	0.54
1:6:63:ARG:NH1	1:6:201:PRO:HA	2.23	0.54
1:A:137:VAL:HG21	1:A:519:LEU:HD23	1.89	0.54
1:E:63:ARG:NH1	1:E:201:PRO:HA	2.23	0.54
1:E:235:LYS:NZ	1:F:363:THR:H	2.06	0.54
1:F:339:TRP:HA	1:F:339:TRP:CE3	2.42	0.54
1:F:453:ALA:H	1:F:470:HIS:HE1	1.55	0.54
1:H:339:TRP:HA	1:H:339:TRP:CE3	2.42	0.54
1:L:453:ALA:H	1:L:470:HIS:HE1	1.55	0.54
1:T:244:GLN:HG2	1:l:528:GLN:OE1	2.08	0.54
1:T:254:ILE:HB	1:i:42:TYR:HB3	1.90	0.54
1:T:453:ALA:H	1:T:470:HIS:HE1	1.55	0.54
1:U:63:ARG:NH1	1:U:201:PRO:HA	2.23	0.54
1:V:453:ALA:H	1:V:470:HIS:HE1	1.55	0.54
1:Y:59:CYS:HB2	1:Y:517:LEU:HD12	1.89	0.54
1:g:63:ARG:NH1	1:g:201:PRO:HA	2.23	0.54
1:i:528:GLN:OE1	1:j:244:GLN:HG2	2.08	0.54
1:m:453:ALA:H	1:m:470:HIS:HE1	1.55	0.54
1:r:63:ARG:NH1	1:r:201:PRO:HA	2.23	0.54
1:s:63:ARG:NH1	1:s:201:PRO:HA	2.23	0.54
1:5:339:TRP:HA	1:5:339:TRP:CE3	2.42	0.54
1:5:528:GLN:OE1	1:6:244:GLN:HG2	2.08	0.54
1:6:363:THR:H	1:7:235:LYS:NZ	2.06	0.54
1:B:490:ASN:O	1:B:505:ILE:N	2.37	0.54
1:D:453:ALA:H	1:D:470:HIS:HE1	1.55	0.54
1:F:63:ARG:NH1	1:F:201:PRO:HA	2.23	0.54
1:F:137:VAL:HG21	1:F:519:LEU:HD23	1.89	0.54
1:G:63:ARG:NH1	1:G:201:PRO:HA	2.23	0.54
1:H:528:GLN:OE1	1:W:244:GLN:HG2	2.08	0.54
1:J:453:ALA:H	1:J:470:HIS:HE1	1.55	0.54
1:L:63:ARG:NH1	1:L:201:PRO:HA	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:528:GLN:OE1	1:P:244:GLN:HG2	2.08	0.54
1:W:363:THR:H	1:Y:235:LYS:NZ	2.06	0.54
1:X:75:TYR:OH	1:X:249:GLU:OE1	2.22	0.54
1:X:339:TRP:HA	1:X:339:TRP:CE3	2.42	0.54
1:Z:528:GLN:OE1	1:4:244:GLN:HG2	2.08	0.54
1:k:453:ALA:H	1:k:470:HIS:HE1	1.55	0.54
1:o:339:TRP:HA	1:o:339:TRP:CE3	2.42	0.54
1:u:363:THR:H	1:v:235:LYS:NZ	2.06	0.54
1:v:137:VAL:HG21	1:v:519:LEU:HD23	1.89	0.54
1:w:63:ARG:NH1	1:w:201:PRO:HA	2.23	0.54
1:y:63:ARG:NH1	1:y:201:PRO:HA	2.23	0.54
1:y:137:VAL:HG21	1:y:519:LEU:HD23	1.89	0.54
1:z:59:CYS:HB2	1:z:517:LEU:HD12	1.89	0.54
1:2:63:ARG:NH1	1:2:201:PRO:HA	2.23	0.54
1:8:339:TRP:HA	1:8:339:TRP:CE3	2.42	0.54
1:C:318:SER:HA	1:b:378:ILE:HD11	1.90	0.54
1:J:63:ARG:NH1	1:J:201:PRO:HA	2.23	0.54
1:J:137:VAL:HG21	1:J:519:LEU:HD23	1.89	0.54
1:K:244:GLN:HG2	1:8:528:GLN:OE1	2.08	0.54
1:M:63:ARG:NH1	1:M:201:PRO:HA	2.23	0.54
1:O:453:ALA:H	1:O:470:HIS:HE1	1.55	0.54
1:O:528:GLN:OE1	1:m:244:GLN:HG2	2.08	0.54
1:Q:44:ASN:ND2	1:Q:201:PRO:HB3	2.23	0.54
1:T:59:CYS:HB2	1:T:517:LEU:HD12	1.89	0.54
1:Z:59:CYS:HB2	1:Z:517:LEU:HD12	1.89	0.54
1:f:363:THR:H	1:h:235:LYS:NZ	2.06	0.54
1:l:63:ARG:NH1	1:l:201:PRO:HA	2.23	0.54
1:r:254:ILE:HB	1:x:42:TYR:HB3	1.90	0.54
1:w:235:LYS:NZ	1:y:363:THR:H	2.06	0.54
1:y:453:ALA:H	1:y:470:HIS:HE1	1.55	0.54
1:z:453:ALA:H	1:z:470:HIS:HE1	1.55	0.54
1:2:453:ALA:H	1:2:470:HIS:HE1	1.55	0.54
1:3:453:ALA:H	1:3:470:HIS:HE1	1.55	0.54
1:7:59:CYS:HB2	1:7:517:LEU:HD12	1.89	0.54
1:B:235:LYS:NZ	1:L:363:THR:H	2.06	0.54
1:H:235:LYS:HZ1	1:Y:363:THR:H	1.56	0.54
1:I:44:ASN:ND2	1:I:201:PRO:HB3	2.23	0.54
1:I:453:ALA:H	1:I:470:HIS:HE1	1.55	0.54
1:K:137:VAL:HG21	1:K:519:LEU:HD23	1.89	0.54
1:P:59:CYS:HB2	1:P:517:LEU:HD12	1.89	0.54
1:T:363:THR:H	1:d:235:LYS:NZ	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:44:ASN:ND2	1:Y:201:PRO:HB3	2.23	0.54
1:a:453:ALA:H	1:a:470:HIS:HE1	1.55	0.54
1:c:44:ASN:ND2	1:c:201:PRO:HB3	2.23	0.54
1:c:63:ARG:NH1	1:c:201:PRO:HA	2.23	0.54
1:e:63:ARG:NH1	1:e:201:PRO:HA	2.23	0.54
1:i:63:ARG:NH1	1:i:201:PRO:HA	2.23	0.54
1:j:59:CYS:HB2	1:j:517:LEU:HD12	1.89	0.54
1:l:453:ALA:H	1:l:470:HIS:HE1	1.55	0.54
1:m:339:TRP:CE3	1:m:339:TRP:HA	2.42	0.54
1:n:487:LEU:HD21	1:n:509:ALA:HB2	1.90	0.54
1:u:44:ASN:ND2	1:u:201:PRO:HB3	2.23	0.54
1:x:44:ASN:ND2	1:x:201:PRO:HB3	2.23	0.54
1:x:63:ARG:NH1	1:x:201:PRO:HA	2.23	0.54
1:z:63:ARG:NH1	1:z:201:PRO:HA	2.23	0.54
1:z:363:THR:H	1:1:235:LYS:NZ	2.06	0.54
1:1:490:ASN:O	1:1:505:ILE:N	2.37	0.54
1:2:137:VAL:HG21	1:2:519:LEU:HD23	1.89	0.54
1:4:137:VAL:HG21	1:4:519:LEU:HD23	1.89	0.54
1:7:44:ASN:ND2	1:7:201:PRO:HB3	2.23	0.54
1:A:44:ASN:ND2	1:A:201:PRO:HB3	2.23	0.54
1:B:63:ARG:NH1	1:B:201:PRO:HA	2.23	0.54
1:B:363:THR:H	1:J:235:LYS:NZ	2.06	0.54
1:B:453:ALA:H	1:B:470:HIS:HE1	1.55	0.54
1:C:310:ASN:HB2	1:b:378:ILE:O	2.08	0.54
1:D:363:THR:H	1:N:235:LYS:NZ	2.06	0.54
1:G:137:VAL:HG21	1:G:519:LEU:HD23	1.89	0.54
1:H:63:ARG:NH1	1:H:201:PRO:HA	2.23	0.54
1:H:137:VAL:HG21	1:H:519:LEU:HD23	1.89	0.54
1:K:44:ASN:ND2	1:K:201:PRO:HB3	2.23	0.54
1:N:63:ARG:NH1	1:N:201:PRO:HA	2.23	0.54
1:O:363:THR:H	1:m:235:LYS:NZ	2.06	0.54
1:P:44:ASN:ND2	1:P:201:PRO:HB3	2.23	0.54
1:Q:42:TYR:HB3	1:S:254:ILE:HB	1.90	0.54
1:R:528:GLN:OE1	1:S:244:GLN:HG2	2.08	0.54
1:T:235:LYS:NZ	1:l:363:THR:H	2.06	0.54
1:X:235:LYS:NZ	1:e:363:THR:H	2.06	0.54
1:c:137:VAL:HG21	1:c:519:LEU:HD23	1.89	0.54
1:e:44:ASN:ND2	1:e:201:PRO:HB3	2.23	0.54
1:f:137:VAL:HG21	1:f:519:LEU:HD23	1.89	0.54
1:h:63:ARG:NH1	1:h:201:PRO:HA	2.23	0.54
1:j:44:ASN:ND2	1:j:201:PRO:HB3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:59:CYS:HB2	1:l:517:LEU:HD12	1.89	0.54
1:m:59:CYS:HB2	1:m:517:LEU:HD12	1.89	0.54
1:t:63:ARG:NH1	1:t:201:PRO:HA	2.23	0.54
1:t:490:ASN:O	1:t:505:ILE:N	2.37	0.54
1:u:453:ALA:H	1:u:470:HIS:HE1	1.55	0.54
1:v:44:ASN:ND2	1:v:201:PRO:HB3	2.23	0.54
1:y:44:ASN:ND2	1:y:201:PRO:HB3	2.23	0.54
1:z:235:LYS:NZ	1:2:363:THR:H	2.06	0.54
1:1:363:THR:H	1:2:235:LYS:NZ	2.06	0.54
1:1:453:ALA:H	1:1:470:HIS:HE1	1.55	0.54
1:5:63:ARG:NH1	1:5:201:PRO:HA	2.23	0.54
1:5:137:VAL:HG21	1:5:519:LEU:HD23	1.89	0.54
1:5:235:LYS:HZ1	1:7:363:THR:H	1.56	0.54
1:8:59:CYS:HB2	1:8:517:LEU:HD12	1.89	0.54
1:A:363:THR:H	1:G:235:LYS:NZ	2.06	0.54
1:E:363:THR:H	1:Q:235:LYS:NZ	2.06	0.54
1:F:44:ASN:ND2	1:F:201:PRO:HB3	2.23	0.54
1:I:487:LEU:HD21	1:I:509:ALA:HB2	1.90	0.54
1:J:363:THR:H	1:L:235:LYS:NZ	2.06	0.54
1:O:59:CYS:HB2	1:O:517:LEU:HD12	1.89	0.54
1:O:63:ARG:NH1	1:O:201:PRO:HA	2.23	0.54
1:S:44:ASN:ND2	1:S:201:PRO:HB3	2.23	0.54
1:T:339:TRP:HA	1:T:339:TRP:CE3	2.42	0.54
1:b:137:VAL:HG21	1:b:519:LEU:HD23	1.89	0.54
1:c:363:THR:H	1:o:235:LYS:NZ	2.06	0.54
1:d:59:CYS:HB2	1:d:517:LEU:HD12	1.89	0.54
1:d:141:HIS:CE1	1:d:518:ILE:HD12	2.44	0.54
1:d:487:LEU:HD21	1:d:509:ALA:HB2	1.90	0.54
1:e:137:VAL:HG21	1:e:519:LEU:HD23	1.89	0.54
1:i:59:CYS:HB2	1:i:517:LEU:HD12	1.89	0.54
1:i:235:LYS:NZ	1:k:363:THR:H	2.06	0.54
1:j:42:TYR:HB3	1:x:254:ILE:HB	1.90	0.54
1:l:44:ASN:ND2	1:l:201:PRO:HB3	2.23	0.54
1:m:363:THR:H	1:n:235:LYS:NZ	2.06	0.54
1:n:59:CYS:HB2	1:n:517:LEU:HD12	1.89	0.54
1:q:528:GLN:OE1	1:r:244:GLN:HG2	2.08	0.54
1:s:44:ASN:ND2	1:s:201:PRO:HB3	2.23	0.54
1:t:137:VAL:HG21	1:t:519:LEU:HD23	1.89	0.54
1:t:409:PRO:O	1:u:223:ILE:HD11	2.08	0.54
1:u:63:ARG:NH1	1:u:201:PRO:HA	2.23	0.54
1:w:44:ASN:ND2	1:w:201:PRO:HB3	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:453:ALA:H	1:x:470:HIS:HE1	1.55	0.54
1:x:528:GLN:OE1	1:y:244:GLN:HG2	2.08	0.54
1:1:59:CYS:HB2	1:1:517:LEU:HD12	1.89	0.54
1:3:244:GLN:HG2	1:4:528:GLN:OE1	2.08	0.54
1:4:44:ASN:ND2	1:4:201:PRO:HB3	2.23	0.54
1:A:59:CYS:HB2	1:A:517:LEU:HD12	1.89	0.53
1:B:137:VAL:HG21	1:B:519:LEU:HD23	1.89	0.53
1:E:44:ASN:ND2	1:E:201:PRO:HB3	2.23	0.53
1:G:44:ASN:ND2	1:G:201:PRO:HB3	2.23	0.53
1:G:363:THR:H	1:I:235:LYS:NZ	2.06	0.53
1:H:363:THR:H	1:W:235:LYS:NZ	2.06	0.53
1:I:63:ARG:NH1	1:I:201:PRO:HA	2.23	0.53
1:I:137:VAL:HG21	1:I:519:LEU:HD23	1.89	0.53
1:I:141:HIS:CE1	1:I:518:ILE:HD12	2.44	0.53
1:M:490:ASN:O	1:M:505:ILE:N	2.37	0.53
1:O:44:ASN:ND2	1:O:201:PRO:HB3	2.23	0.53
1:Q:63:ARG:NH1	1:Q:201:PRO:HA	2.23	0.53
1:T:145:THR:HG1	1:T:514:THR:HG1	1.52	0.53
1:V:141:HIS:CE1	1:V:518:ILE:HD12	2.44	0.53
1:Y:339:TRP:HA	1:Y:339:TRP:CE3	2.42	0.53
1:b:453:ALA:H	1:b:470:HIS:HE1	1.55	0.53
1:g:244:GLN:HG2	1:h:528:GLN:OE1	2.08	0.53
1:i:44:ASN:ND2	1:i:201:PRO:HB3	2.23	0.53
1:i:363:THR:H	1:j:235:LYS:NZ	2.06	0.53
1:n:141:HIS:CE1	1:n:518:ILE:HD12	2.44	0.53
1:p:141:HIS:CE1	1:p:518:ILE:HD12	2.44	0.53
1:q:487:LEU:HD21	1:q:509:ALA:HB2	1.90	0.53
1:u:141:HIS:CE1	1:u:518:ILE:HD12	2.44	0.53
1:u:487:LEU:HD21	1:u:509:ALA:HB2	1.90	0.53
1:w:137:VAL:HG21	1:w:519:LEU:HD23	1.89	0.53
1:1:137:VAL:HG21	1:1:519:LEU:HD23	1.89	0.53
1:2:42:TYR:HB3	1:3:254:ILE:HB	1.91	0.53
1:5:363:THR:H	1:6:235:LYS:NZ	2.06	0.53
1:7:453:ALA:H	1:7:470:HIS:HE1	1.55	0.53
1:B:59:CYS:HB2	1:B:517:LEU:HD12	1.89	0.53
1:C:141:HIS:CE1	1:C:518:ILE:HD12	2.44	0.53
1:F:244:GLN:HG2	1:Q:528:GLN:OE1	2.08	0.53
1:F:490:ASN:O	1:F:505:ILE:N	2.37	0.53
1:G:59:CYS:HB2	1:G:517:LEU:HD12	1.89	0.53
1:J:42:TYR:HB3	1:a:254:ILE:HB	1.91	0.53
1:K:59:CYS:HB2	1:K:517:LEU:HD12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:528:GLN:OE1	1:a:244:GLN:HG2	2.08	0.53
1:N:42:TYR:HB3	1:m:254:ILE:HB	1.91	0.53
1:N:44:ASN:ND2	1:N:201:PRO:HB3	2.23	0.53
1:N:59:CYS:HB2	1:N:517:LEU:HD12	1.89	0.53
1:N:141:HIS:CE1	1:N:518:ILE:HD12	2.44	0.53
1:N:363:THR:H	1:P:235:LYS:NZ	2.06	0.53
1:R:487:LEU:HD21	1:R:509:ALA:HB2	1.90	0.53
1:S:42:TYR:HB3	1:d:254:ILE:HB	1.91	0.53
1:S:363:THR:H	1:U:235:LYS:NZ	2.06	0.53
1:T:63:ARG:NH1	1:T:201:PRO:HA	2.23	0.53
1:U:44:ASN:ND2	1:U:201:PRO:HB3	2.23	0.53
1:V:235:LYS:NZ	1:X:363:THR:H	2.06	0.53
1:V:339:TRP:HA	1:V:339:TRP:CE3	2.42	0.53
1:W:528:GLN:OE1	1:Y:244:GLN:HG2	2.08	0.53
1:Y:453:ALA:H	1:Y:470:HIS:HE1	1.55	0.53
1:b:141:HIS:CE1	1:b:518:ILE:HD12	2.44	0.53
1:c:59:CYS:HB2	1:c:517:LEU:HD12	1.89	0.53
1:f:141:HIS:CE1	1:f:518:ILE:HD12	2.44	0.53
1:g:141:HIS:CE1	1:g:518:ILE:HD12	2.44	0.53
1:h:490:ASN:O	1:h:505:ILE:N	2.37	0.53
1:i:141:HIS:CE1	1:i:518:ILE:HD12	2.44	0.53
1:j:137:VAL:HG21	1:j:519:LEU:HD23	1.89	0.53
1:j:254:ILE:HB	1:l:42:TYR:HB3	1.90	0.53
1:n:254:ILE:HB	1:r:42:TYR:HB3	1.91	0.53
1:p:44:ASN:ND2	1:p:201:PRO:HB3	2.23	0.53
1:p:339:TRP:CE3	1:p:339:TRP:HA	2.42	0.53
1:p:356:PHE:CG	1:p:405:THR:HA	2.44	0.53
1:q:44:ASN:ND2	1:q:201:PRO:HB3	2.23	0.53
1:q:363:THR:H	1:r:235:LYS:NZ	2.06	0.53
1:r:44:ASN:ND2	1:r:201:PRO:HB3	2.23	0.53
1:t:59:CYS:HB2	1:t:517:LEU:HD12	1.89	0.53
1:v:59:CYS:HB2	1:v:517:LEU:HD12	1.89	0.53
1:x:75:TYR:OH	1:x:249:GLU:OE1	2.22	0.53
1:1:63:ARG:NH1	1:1:201:PRO:HA	2.23	0.53
1:1:141:HIS:CE1	1:1:518:ILE:HD12	2.44	0.53
1:2:487:LEU:HD21	1:2:509:ALA:HB2	1.90	0.53
1:6:528:GLN:OE1	1:7:244:GLN:HG2	2.08	0.53
1:B:141:HIS:CE1	1:B:518:ILE:HD12	2.44	0.53
1:D:244:GLN:HG2	1:P:528:GLN:OE1	2.08	0.53
1:E:137:VAL:HG21	1:E:519:LEU:HD23	1.89	0.53
1:E:141:HIS:CE1	1:E:518:ILE:HD12	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:244:GLN:HG2	1:F:528:GLN:OE1	2.08	0.53
1:E:528:GLN:OE1	1:Q:244:GLN:HG2	2.08	0.53
1:F:356:PHE:CG	1:F:405:THR:HA	2.44	0.53
1:G:42:TYR:HB3	1:W:254:ILE:HB	1.91	0.53
1:G:490:ASN:O	1:G:505:ILE:N	2.37	0.53
1:H:244:GLN:HG2	1:Y:528:GLN:OE1	2.08	0.53
1:J:44:ASN:ND2	1:J:201:PRO:HB3	2.23	0.53
1:J:141:HIS:CE1	1:J:518:ILE:HD12	2.44	0.53
1:J:487:LEU:HD21	1:J:509:ALA:HB2	1.90	0.53
1:K:235:LYS:NZ	1:8:363:THR:H	2.06	0.53
1:O:356:PHE:CG	1:O:405:THR:HA	2.44	0.53
1:Q:75:TYR:OH	1:Q:249:GLU:OE1	2.22	0.53
1:Q:453:ALA:H	1:Q:470:HIS:HE1	1.55	0.53
1:T:44:ASN:ND2	1:T:201:PRO:HB3	2.23	0.53
1:U:453:ALA:H	1:U:470:HIS:HE1	1.55	0.53
1:V:44:ASN:ND2	1:V:201:PRO:HB3	2.23	0.53
1:V:356:PHE:CG	1:V:405:THR:HA	2.44	0.53
1:W:75:TYR:OH	1:W:249:GLU:OE1	2.22	0.53
1:Z:363:THR:H	1:4:235:LYS:NZ	2.06	0.53
1:a:356:PHE:CG	1:a:405:THR:HA	2.44	0.53
1:c:141:HIS:CE1	1:c:518:ILE:HD12	2.44	0.53
1:c:254:ILE:HB	1:s:42:TYR:HB3	1.91	0.53
1:c:339:TRP:HA	1:c:339:TRP:CE3	2.42	0.53
1:e:59:CYS:HB2	1:e:517:LEU:HD12	1.89	0.53
1:e:141:HIS:CE1	1:e:518:ILE:HD12	2.44	0.53
1:e:339:TRP:CE3	1:e:339:TRP:HA	2.42	0.53
1:f:453:ALA:H	1:f:470:HIS:HE1	1.55	0.53
1:k:356:PHE:CG	1:k:405:THR:HA	2.44	0.53
1:k:490:ASN:O	1:k:505:ILE:N	2.37	0.53
1:l:356:PHE:CG	1:l:405:THR:HA	2.44	0.53
1:m:44:ASN:ND2	1:m:201:PRO:HB3	2.23	0.53
1:m:63:ARG:NH1	1:m:201:PRO:HA	2.23	0.53
1:n:339:TRP:HA	1:n:339:TRP:CE3	2.42	0.53
1:o:363:THR:H	1:p:235:LYS:NZ	2.06	0.53
1:s:453:ALA:H	1:s:470:HIS:HE1	1.55	0.53
1:t:42:TYR:HB3	1:6:254:ILE:HB	1.90	0.53
1:t:44:ASN:ND2	1:t:201:PRO:HB3	2.23	0.53
1:u:137:VAL:HG21	1:u:519:LEU:HD23	1.89	0.53
1:u:363:THR:H	1:v:235:LYS:HZ1	1.56	0.53
1:y:356:PHE:CG	1:y:405:THR:HA	2.44	0.53
1:2:44:ASN:ND2	1:2:201:PRO:HB3	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:141:HIS:CE1	1:2:518:ILE:HD12	2.44	0.53
1:3:356:PHE:CG	1:3:405:THR:HA	2.44	0.53
1:4:59:CYS:HB2	1:4:517:LEU:HD12	1.89	0.53
1:7:63:ARG:NH1	1:7:201:PRO:HA	2.23	0.53
1:7:339:TRP:CE3	1:7:339:TRP:HA	2.42	0.53
1:A:378:ILE:HD11	1:I:318:SER:HA	1.91	0.53
1:F:59:CYS:HB2	1:F:517:LEU:HD12	1.89	0.53
1:G:409:PRO:O	1:I:223:ILE:HD11	2.09	0.53
1:G:453:ALA:H	1:G:470:HIS:HE1	1.55	0.53
1:I:42:TYR:HB3	1:J:254:ILE:HB	1.90	0.53
1:K:63:ARG:NH1	1:K:201:PRO:HA	2.23	0.53
1:N:137:VAL:HG21	1:N:519:LEU:HD23	1.89	0.53
1:O:42:TYR:HB3	1:P:254:ILE:HB	1.91	0.53
1:O:137:VAL:HG21	1:O:519:LEU:HD23	1.89	0.53
1:P:42:TYR:HB3	1:Q:254:ILE:HB	1.90	0.53
1:P:137:VAL:HG21	1:P:519:LEU:HD23	1.89	0.53
1:R:141:HIS:CE1	1:R:518:ILE:HD12	2.44	0.53
1:R:244:GLN:HG2	1:U:528:GLN:OE1	2.08	0.53
1:R:363:THR:H	1:S:235:LYS:NZ	2.06	0.53
1:S:141:HIS:CE1	1:S:518:ILE:HD12	2.43	0.53
1:S:487:LEU:HD21	1:S:509:ALA:HB2	1.90	0.53
1:T:141:HIS:CE1	1:T:518:ILE:HD12	2.44	0.53
1:U:42:TYR:HB3	1:e:254:ILE:HB	1.91	0.53
1:U:141:HIS:CE1	1:U:518:ILE:HD12	2.44	0.53
1:W:141:HIS:CE1	1:W:518:ILE:HD12	2.44	0.53
1:X:244:GLN:HG2	1:e:528:GLN:OE1	2.08	0.53
1:Y:63:ARG:NH1	1:Y:201:PRO:HA	2.23	0.53
1:c:528:GLN:OE1	1:o:244:GLN:HG2	2.08	0.53
1:d:339:TRP:HA	1:d:339:TRP:CE3	2.42	0.53
1:g:235:LYS:NZ	1:h:363:THR:H	2.06	0.53
1:j:63:ARG:NH1	1:j:201:PRO:HA	2.23	0.53
1:j:528:GLN:OE1	1:k:244:GLN:HG2	2.08	0.53
1:k:141:HIS:CE1	1:k:518:ILE:HD12	2.43	0.53
1:m:141:HIS:CE1	1:m:518:ILE:HD12	2.44	0.53
1:n:453:ALA:H	1:n:470:HIS:HE1	1.55	0.53
1:o:137:VAL:HG21	1:o:519:LEU:HD23	1.89	0.53
1:r:141:HIS:CE1	1:r:518:ILE:HD12	2.44	0.53
1:s:141:HIS:CE1	1:s:518:ILE:HD12	2.44	0.53
1:t:235:LYS:NZ	1:v:363:THR:H	2.06	0.53
1:t:453:ALA:H	1:t:470:HIS:HE1	1.55	0.53
1:v:42:TYR:HB3	1:w:254:ILE:HB	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:141:HIS:CE1	1:w:518:ILE:HD12	2.44	0.53
1:w:244:GLN:HG2	1:y:528:GLN:OE1	2.08	0.53
1:w:363:THR:H	1:x:235:LYS:NZ	2.06	0.53
1:y:59:CYS:HB2	1:y:517:LEU:HD12	1.89	0.53
1:y:490:ASN:O	1:y:505:ILE:N	2.37	0.53
1:1:356:PHE:CG	1:1:405:THR:HA	2.44	0.53
1:4:141:HIS:CE1	1:4:518:ILE:HD12	2.44	0.53
1:5:244:GLN:HG2	1:7:528:GLN:OE1	2.08	0.53
1:6:137:VAL:HG21	1:6:519:LEU:HD23	1.89	0.53
1:B:356:PHE:CG	1:B:405:THR:HA	2.44	0.53
1:D:356:PHE:CG	1:D:405:THR:HA	2.44	0.53
1:D:490:ASN:O	1:D:505:ILE:N	2.37	0.53
1:E:453:ALA:H	1:E:470:HIS:HE1	1.55	0.53
1:G:487:LEU:HD21	1:G:509:ALA:HB2	1.90	0.53
1:K:141:HIS:CE1	1:K:518:ILE:HD12	2.44	0.53
1:L:356:PHE:CG	1:L:405:THR:HA	2.44	0.53
1:M:44:ASN:ND2	1:M:201:PRO:HB3	2.23	0.53
1:O:254:ILE:HB	1:d:42:TYR:HB3	1.91	0.53
1:P:453:ALA:H	1:P:470:HIS:HE1	1.55	0.53
1:Q:137:VAL:HG21	1:Q:519:LEU:HD23	1.89	0.53
1:Q:339:TRP:HA	1:Q:339:TRP:CE3	2.42	0.53
1:R:44:ASN:ND2	1:R:201:PRO:HB3	2.23	0.53
1:V:254:ILE:HB	1:W:42:TYR:HB3	1.90	0.53
1:W:137:VAL:HG21	1:W:519:LEU:HD23	1.89	0.53
1:X:137:VAL:HG21	1:X:519:LEU:HD23	1.89	0.53
1:X:490:ASN:O	1:X:505:ILE:N	2.37	0.53
1:Z:235:LYS:NZ	1:3:363:THR:H	2.06	0.53
1:a:363:THR:H	1:8:235:LYS:NZ	2.06	0.53
1:f:528:GLN:OE1	1:h:244:GLN:HG2	2.08	0.53
1:i:356:PHE:CG	1:i:405:THR:HA	2.44	0.53
1:j:453:ALA:H	1:j:470:HIS:HE1	1.55	0.53
1:l:254:ILE:HB	1:n:42:TYR:HB3	1.91	0.53
1:m:356:PHE:CG	1:m:405:THR:HA	2.44	0.53
1:n:63:ARG:NH1	1:n:201:PRO:HA	2.23	0.53
1:q:141:HIS:CE1	1:q:518:ILE:HD12	2.44	0.53
1:q:244:GLN:HG2	1:s:528:GLN:OE1	2.08	0.53
1:r:363:THR:H	1:s:235:LYS:NZ	2.06	0.53
1:r:487:LEU:HD21	1:r:509:ALA:HB2	1.90	0.53
1:u:42:TYR:HB3	1:2:254:ILE:HB	1.90	0.53
1:w:453:ALA:H	1:w:470:HIS:HE1	1.55	0.53
1:w:528:GLN:OE1	1:x:244:GLN:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:137:VAL:HG21	1:x:519:LEU:HD23	1.89	0.53
1:z:356:PHE:CG	1:z:405:THR:HA	2.44	0.53
1:4:63:ARG:NH1	1:4:201:PRO:HA	2.23	0.53
1:6:75:TYR:OH	1:6:249:GLU:OE1	2.22	0.53
1:6:141:HIS:CE1	1:6:518:ILE:HD12	2.44	0.53
1:8:141:HIS:CE1	1:8:518:ILE:HD12	2.44	0.53
1:B:44:ASN:ND2	1:B:201:PRO:HB3	2.23	0.53
1:B:528:GLN:OE1	1:J:244:GLN:HG2	2.08	0.53
1:D:528:GLN:OE1	1:N:244:GLN:HG2	2.08	0.53
1:F:254:ILE:HB	1:R:42:TYR:HB3	1.90	0.53
1:I:59:CYS:HB2	1:I:517:LEU:HD12	1.89	0.53
1:M:244:GLN:HG2	1:b:528:GLN:OE1	2.08	0.53
1:N:356:PHE:CG	1:N:405:THR:HA	2.44	0.53
1:N:490:ASN:O	1:N:505:ILE:N	2.37	0.53
1:Q:356:PHE:CG	1:Q:405:THR:HA	2.44	0.53
1:R:137:VAL:HG21	1:R:519:LEU:HD23	1.89	0.53
1:T:356:PHE:CG	1:T:405:THR:HA	2.44	0.53
1:U:59:CYS:HB2	1:U:517:LEU:HD12	1.89	0.53
1:W:487:LEU:HD21	1:W:509:ALA:HB2	1.90	0.53
1:Y:141:HIS:CE1	1:Y:518:ILE:HD12	2.43	0.53
1:Z:244:GLN:HG2	1:3:528:GLN:OE1	2.08	0.53
1:c:356:PHE:CG	1:c:405:THR:HA	2.44	0.53
1:d:63:ARG:NH1	1:d:201:PRO:HA	2.23	0.53
1:d:453:ALA:H	1:d:470:HIS:HE1	1.55	0.53
1:d:528:GLN:OE1	1:l:244:GLN:HG2	2.08	0.53
1:e:356:PHE:CG	1:e:405:THR:HA	2.44	0.53
1:f:235:LYS:NZ	1:g:363:THR:H	2.06	0.53
1:h:44:ASN:ND2	1:h:201:PRO:HB3	2.23	0.53
1:i:137:VAL:HG21	1:i:519:LEU:HD23	1.89	0.53
1:l:137:VAL:HG21	1:l:519:LEU:HD23	1.89	0.53
1:p:254:ILE:HB	1:6:42:TYR:HB3	1.90	0.53
1:r:528:GLN:OE1	1:s:244:GLN:HG2	2.08	0.53
1:t:487:LEU:HD21	1:t:509:ALA:HB2	1.90	0.53
1:1:44:ASN:ND2	1:1:201:PRO:HB3	2.23	0.53
1:1:339:TRP:HA	1:1:339:TRP:CE3	2.42	0.53
1:1:528:GLN:OE1	1:2:244:GLN:HG2	2.08	0.53
1:5:141:HIS:CE1	1:5:518:ILE:HD12	2.43	0.53
1:6:487:LEU:HD21	1:6:509:ALA:HB2	1.90	0.53
1:7:356:PHE:CG	1:7:405:THR:HA	2.44	0.53
1:A:42:TYR:HB3	1:E:254:ILE:HB	1.91	0.53
1:A:244:GLN:HG2	1:I:528:GLN:OE1	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:339:TRP:CE3	1:B:339:TRP:HA	2.42	0.53
1:D:141:HIS:CE1	1:D:518:ILE:HD12	2.44	0.53
1:P:63:ARG:NH1	1:P:201:PRO:HA	2.23	0.53
1:P:141:HIS:CE1	1:P:518:ILE:HD12	2.44	0.53
1:W:356:PHE:CG	1:W:405:THR:HA	2.44	0.53
1:X:63:ARG:NH1	1:X:201:PRO:HA	2.23	0.53
1:Y:356:PHE:CG	1:Y:405:THR:HA	2.44	0.53
1:Z:141:HIS:CE1	1:Z:518:ILE:HD12	2.44	0.53
1:a:44:ASN:ND2	1:a:201:PRO:HB3	2.23	0.53
1:a:137:VAL:HG21	1:a:519:LEU:HD23	1.89	0.53
1:a:528:GLN:OE1	1:8:244:GLN:HG2	2.08	0.53
1:d:363:THR:H	1:l:235:LYS:NZ	2.06	0.53
1:j:141:HIS:CE1	1:j:518:ILE:HD12	2.43	0.53
1:j:356:PHE:CG	1:j:405:THR:HA	2.44	0.53
1:m:145:THR:HG1	1:m:514:THR:HG1	1.53	0.53
1:p:487:LEU:HD21	1:p:509:ALA:HB2	1.90	0.53
1:q:137:VAL:HG21	1:q:519:LEU:HD23	1.89	0.53
1:u:59:CYS:HB2	1:u:517:LEU:HD12	1.89	0.53
1:v:254:ILE:HB	1:1:42:TYR:HB3	1.90	0.53
1:v:356:PHE:CG	1:v:405:THR:HA	2.44	0.53
1:x:339:TRP:CE3	1:x:339:TRP:HA	2.42	0.53
1:x:356:PHE:CG	1:x:405:THR:HA	2.44	0.53
1:3:141:HIS:CE1	1:3:518:ILE:HD12	2.44	0.53
1:6:356:PHE:CG	1:6:405:THR:HA	2.44	0.53
1:A:356:PHE:CG	1:A:405:THR:HA	2.44	0.53
1:J:356:PHE:CG	1:J:405:THR:HA	2.44	0.53
1:O:244:GLN:HG2	1:n:528:GLN:OE1	2.08	0.53
1:P:356:PHE:CG	1:P:405:THR:HA	2.44	0.53
1:S:528:GLN:OE1	1:U:244:GLN:HG2	2.08	0.53
1:T:42:TYR:HB3	1:U:254:ILE:HB	1.91	0.53
1:V:487:LEU:HD21	1:V:509:ALA:HB2	1.90	0.53
1:V:528:GLN:OE1	1:e:244:GLN:HG2	2.08	0.53
1:b:356:PHE:CG	1:b:405:THR:HA	2.44	0.53
1:c:453:ALA:H	1:c:470:HIS:HE1	1.55	0.53
1:d:44:ASN:ND2	1:d:201:PRO:HB3	2.23	0.53
1:d:137:VAL:HG21	1:d:519:LEU:HD23	1.89	0.53
1:f:244:GLN:HG2	1:g:528:GLN:OE1	2.09	0.53
1:g:356:PHE:CG	1:g:405:THR:HA	2.44	0.53
1:i:244:GLN:HG2	1:k:528:GLN:OE1	2.08	0.53
1:i:490:ASN:O	1:i:505:ILE:N	2.37	0.53
1:n:137:VAL:HG21	1:n:519:LEU:HD23	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:44:ASN:ND2	1:o:201:PRO:HB3	2.23	0.53
1:o:63:ARG:NH1	1:o:201:PRO:HA	2.23	0.53
1:o:356:PHE:CG	1:o:405:THR:HA	2.44	0.53
1:q:42:TYR:HB3	1:y:254:ILE:HB	1.91	0.53
1:q:235:LYS:NZ	1:s:363:THR:H	2.06	0.53
1:s:59:CYS:HB2	1:s:517:LEU:HD12	1.89	0.53
1:v:141:HIS:CE1	1:v:518:ILE:HD12	2.44	0.53
1:z:141:HIS:CE1	1:z:518:ILE:HD12	2.44	0.53
1:2:356:PHE:CG	1:2:405:THR:HA	2.44	0.53
1:3:44:ASN:ND2	1:3:201:PRO:HB3	2.23	0.53
1:3:137:VAL:HG21	1:3:519:LEU:HD23	1.89	0.53
1:5:235:LYS:NZ	1:7:363:THR:H	2.06	0.53
1:A:141:HIS:CE1	1:A:518:ILE:HD12	2.44	0.53
1:C:356:PHE:CG	1:C:405:THR:HA	2.44	0.53
1:D:44:ASN:ND2	1:D:201:PRO:HB3	2.23	0.53
1:D:137:VAL:HG21	1:D:519:LEU:HD23	1.89	0.53
1:D:487:LEU:HD21	1:D:509:ALA:HB2	1.90	0.53
1:F:141:HIS:CE1	1:F:518:ILE:HD12	2.44	0.53
1:G:356:PHE:CG	1:G:405:THR:HA	2.44	0.53
1:H:141:HIS:CE1	1:H:518:ILE:HD12	2.44	0.53
1:I:356:PHE:CG	1:I:405:THR:HA	2.44	0.53
1:K:356:PHE:CG	1:K:405:THR:HA	2.44	0.53
1:L:141:HIS:CE1	1:L:518:ILE:HD12	2.44	0.53
1:Q:141:HIS:CE1	1:Q:518:ILE:HD12	2.44	0.53
1:R:235:LYS:NZ	1:U:363:THR:H	2.06	0.53
1:R:356:PHE:CG	1:R:405:THR:HA	2.44	0.53
1:V:244:GLN:HG2	1:X:528:GLN:OE1	2.08	0.53
1:X:356:PHE:CG	1:X:405:THR:HA	2.44	0.53
1:a:141:HIS:CE1	1:a:518:ILE:HD12	2.44	0.53
1:c:244:GLN:HG2	1:p:528:GLN:OE1	2.08	0.53
1:e:453:ALA:H	1:e:470:HIS:HE1	1.55	0.53
1:f:356:PHE:CG	1:f:405:THR:HA	2.44	0.53
1:h:137:VAL:HG21	1:h:519:LEU:HD23	1.89	0.53
1:j:363:THR:H	1:k:235:LYS:NZ	2.06	0.53
1:k:137:VAL:HG21	1:k:519:LEU:HD23	1.89	0.53
1:k:487:LEU:HD21	1:k:509:ALA:HB2	1.90	0.53
1:m:528:GLN:OE1	1:n:244:GLN:HG2	2.08	0.53
1:n:44:ASN:ND2	1:n:201:PRO:HB3	2.23	0.53
1:o:490:ASN:O	1:o:505:ILE:N	2.37	0.53
1:q:356:PHE:CG	1:q:405:THR:HA	2.44	0.53
1:q:453:ALA:H	1:q:470:HIS:HE1	1.55	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:356:PHE:CG	1:r:405:THR:HA	2.44	0.53
1:s:487:LEU:HD21	1:s:509:ALA:HB2	1.90	0.53
1:t:141:HIS:CE1	1:t:518:ILE:HD12	2.44	0.53
1:u:356:PHE:CG	1:u:405:THR:HA	2.44	0.53
1:u:528:GLN:OE1	1:v:244:GLN:HG2	2.08	0.53
1:x:141:HIS:CE1	1:x:518:ILE:HD12	2.44	0.53
1:4:145:THR:OG1	1:4:514:THR:OG1	2.27	0.53
1:4:356:PHE:CG	1:4:405:THR:HA	2.44	0.53
1:6:490:ASN:O	1:6:505:ILE:N	2.37	0.53
1:7:141:HIS:CE1	1:7:518:ILE:HD12	2.44	0.53
1:A:528:GLN:OE1	1:G:244:GLN:HG2	2.08	0.53
1:B:244:GLN:HG2	1:L:528:GLN:OE1	2.08	0.53
1:C:137:VAL:HG21	1:C:519:LEU:HD23	1.89	0.53
1:D:235:LYS:NZ	1:P:363:THR:H	2.06	0.53
1:G:141:HIS:CE1	1:G:518:ILE:HD12	2.44	0.53
1:H:235:LYS:NZ	1:Y:363:THR:H	2.06	0.53
1:N:487:LEU:HD21	1:N:509:ALA:HB2	1.90	0.53
1:O:235:LYS:NZ	1:n:363:THR:H	2.06	0.53
1:R:453:ALA:H	1:R:470:HIS:HE1	1.55	0.53
1:S:356:PHE:CG	1:S:405:THR:HA	2.44	0.53
1:U:487:LEU:HD21	1:U:509:ALA:HB2	1.90	0.53
1:V:363:THR:H	1:e:235:LYS:NZ	2.06	0.53
1:c:235:LYS:NZ	1:p:363:THR:H	2.06	0.53
1:f:254:ILE:HB	1:z:42:TYR:HB3	1.90	0.53
1:i:487:LEU:HD21	1:i:509:ALA:HB2	1.90	0.53
1:k:44:ASN:ND2	1:k:201:PRO:HB3	2.23	0.53
1:k:254:ILE:HB	1:w:42:TYR:HB3	1.90	0.53
1:m:42:TYR:HB3	1:s:254:ILE:HB	1.90	0.53
1:o:141:HIS:CE1	1:o:518:ILE:HD12	2.44	0.53
1:t:356:PHE:CG	1:t:405:THR:HA	2.44	0.53
1:y:141:HIS:CE1	1:y:518:ILE:HD12	2.44	0.53
1:z:137:VAL:HG21	1:z:519:LEU:HD23	1.89	0.53
1:z:244:GLN:HG2	1:2:528:GLN:OE1	2.08	0.53
1:B:106:VAL:HG23	1:B:214:VAL:CG1	2.40	0.52
1:C:106:VAL:HG23	1:C:214:VAL:CG1	2.40	0.52
1:E:487:LEU:HD21	1:E:509:ALA:HB2	1.90	0.52
1:G:106:VAL:HG23	1:G:214:VAL:CG1	2.40	0.52
1:K:363:THR:H	1:a:235:LYS:NZ	2.06	0.52
1:K:409:PRO:O	1:a:223:ILE:HD11	2.10	0.52
1:M:137:VAL:HG21	1:M:519:LEU:HD23	1.89	0.52
1:M:141:HIS:CE1	1:M:518:ILE:HD12	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:468:SER:OG	1:O:471:ALA:O	2.26	0.52
1:X:141:HIS:CE1	1:X:518:ILE:HD12	2.44	0.52
1:g:106:VAL:HG23	1:g:214:VAL:CG1	2.39	0.52
1:g:137:VAL:HG21	1:g:519:LEU:HD23	1.89	0.52
1:g:453:ALA:H	1:g:470:HIS:HE1	1.55	0.52
1:l:141:HIS:CE1	1:l:518:ILE:HD12	2.44	0.52
1:o:528:GLN:OE1	1:p:244:GLN:HG2	2.08	0.52
1:w:487:LEU:HD21	1:w:509:ALA:HB2	1.90	0.52
1:z:409:PRO:O	1:1:223:ILE:HD11	2.09	0.52
1:z:528:GLN:OE1	1:1:244:GLN:HG2	2.08	0.52
1:1:106:VAL:HG23	1:1:214:VAL:CG1	2.40	0.52
1:6:44:ASN:ND2	1:6:201:PRO:HB3	2.23	0.52
1:A:254:ILE:HB	1:B:42:TYR:HB3	1.91	0.52
1:C:453:ALA:H	1:C:470:HIS:HE1	1.55	0.52
1:C:487:LEU:HD21	1:C:509:ALA:HB2	1.90	0.52
1:F:145:THR:HG1	1:F:514:THR:HG1	1.53	0.52
1:J:528:GLN:OE1	1:L:244:GLN:HG2	2.08	0.52
1:K:490:ASN:O	1:K:505:ILE:N	2.37	0.52
1:L:44:ASN:ND2	1:L:201:PRO:HB3	2.23	0.52
1:L:137:VAL:HG21	1:L:519:LEU:HD23	1.89	0.52
1:O:141:HIS:CE1	1:O:518:ILE:HD12	2.44	0.52
1:P:106:VAL:HG23	1:P:214:VAL:CG1	2.40	0.52
1:T:106:VAL:HG23	1:T:214:VAL:CG1	2.40	0.52
1:W:44:ASN:ND2	1:W:201:PRO:HB3	2.23	0.52
1:W:490:ASN:O	1:W:505:ILE:N	2.37	0.52
1:X:44:ASN:ND2	1:X:201:PRO:HB3	2.23	0.52
1:g:223:ILE:HD11	1:h:409:PRO:O	2.09	0.52
1:g:487:LEU:HD21	1:g:509:ALA:HB2	1.90	0.52
1:m:106:VAL:HG23	1:m:214:VAL:CG1	2.40	0.52
1:n:490:ASN:O	1:n:505:ILE:N	2.37	0.52
1:t:106:VAL:HG23	1:t:214:VAL:CG1	2.40	0.52
1:y:106:VAL:HG23	1:y:214:VAL:CG1	2.40	0.52
1:z:44:ASN:ND2	1:z:201:PRO:HB3	2.23	0.52
1:2:490:ASN:O	1:2:505:ILE:N	2.37	0.52
1:3:223:ILE:HD11	1:4:409:PRO:O	2.10	0.52
1:3:235:LYS:NZ	1:4:363:THR:H	2.06	0.52
1:6:145:THR:HG1	1:6:514:THR:HG1	1.52	0.52
1:8:44:ASN:ND2	1:8:201:PRO:HB3	2.23	0.52
1:C:235:LYS:HZ1	1:M:363:THR:H	1.57	0.52
1:C:363:THR:H	1:b:235:LYS:NZ	2.07	0.52
1:F:42:TYR:HB3	1:G:254:ILE:HB	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:106:VAL:HG23	1:F:214:VAL:CG1	2.40	0.52
1:H:44:ASN:ND2	1:H:201:PRO:HB3	2.23	0.52
1:R:254:ILE:HB	1:V:42:TYR:HB3	1.90	0.52
1:T:528:GLN:OE1	1:d:244:GLN:HG2	2.08	0.52
1:U:356:PHE:CG	1:U:405:THR:HA	2.44	0.52
1:W:409:PRO:O	1:Y:223:ILE:HD11	2.10	0.52
1:Y:42:TYR:HB3	1:4:254:ILE:HB	1.91	0.52
1:d:106:VAL:HG23	1:d:214:VAL:CG1	2.40	0.52
1:d:490:ASN:O	1:d:505:ILE:N	2.37	0.52
1:g:44:ASN:ND2	1:g:201:PRO:HB3	2.23	0.52
1:h:141:HIS:CE1	1:h:518:ILE:HD12	2.44	0.52
1:h:487:LEU:HD21	1:h:509:ALA:HB2	1.90	0.52
1:j:106:VAL:HG23	1:j:214:VAL:CG1	2.40	0.52
1:j:339:TRP:HA	1:j:339:TRP:CE3	2.42	0.52
1:l:468:SER:OG	1:l:471:ALA:O	2.26	0.52
1:p:42:TYR:HB3	1:q:254:ILE:HB	1.90	0.52
1:s:356:PHE:CG	1:s:405:THR:HA	2.44	0.52
1:t:244:GLN:HG2	1:v:528:GLN:OE1	2.08	0.52
1:x:487:LEU:HD21	1:x:509:ALA:HB2	1.90	0.52
1:y:487:LEU:HD21	1:y:509:ALA:HB2	1.90	0.52
1:5:487:LEU:HD21	1:5:509:ALA:HB2	1.90	0.52
1:6:409:PRO:O	1:7:223:ILE:HD11	2.10	0.52
1:7:137:VAL:HG21	1:7:519:LEU:HD23	1.89	0.52
1:8:106:VAL:HG23	1:8:214:VAL:CG1	2.40	0.52
1:8:137:VAL:HG21	1:8:519:LEU:HD23	1.89	0.52
1:B:223:ILE:HD11	1:L:409:PRO:O	2.10	0.52
1:C:44:ASN:ND2	1:C:201:PRO:HB3	2.23	0.52
1:C:490:ASN:O	1:C:505:ILE:N	2.37	0.52
1:D:223:ILE:HD11	1:P:409:PRO:O	2.10	0.52
1:D:254:ILE:HB	1:E:42:TYR:HB3	1.91	0.52
1:E:356:PHE:CG	1:E:405:THR:HA	2.44	0.52
1:F:487:LEU:HD21	1:F:509:ALA:HB2	1.90	0.52
1:H:356:PHE:CG	1:H:405:THR:HA	2.44	0.52
1:H:487:LEU:HD21	1:H:509:ALA:HB2	1.90	0.52
1:K:254:ILE:HB	1:7:42:TYR:HB3	1.90	0.52
1:M:254:ILE:HB	1:c:42:TYR:HB3	1.91	0.52
1:O:223:ILE:HD11	1:n:409:PRO:O	2.10	0.52
1:O:490:ASN:O	1:O:505:ILE:N	2.37	0.52
1:X:487:LEU:HD21	1:X:509:ALA:HB2	1.90	0.52
1:Z:44:ASN:ND2	1:Z:201:PRO:HB3	2.23	0.52
1:Z:106:VAL:HG23	1:Z:214:VAL:CG1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:409:PRO:O	1:8:223:ILE:HD11	2.10	0.52
1:b:106:VAL:HG23	1:b:214:VAL:CG1	2.40	0.52
1:e:42:TYR:HB3	1:h:254:ILE:HB	1.91	0.52
1:f:106:VAL:HG23	1:f:214:VAL:CG1	2.40	0.52
1:g:42:TYR:HB3	1:1:254:ILE:HB	1.90	0.52
1:i:106:VAL:HG23	1:i:214:VAL:CG1	2.40	0.52
1:n:106:VAL:HG23	1:n:214:VAL:CG1	2.40	0.52
1:n:356:PHE:CG	1:n:405:THR:HA	2.44	0.52
1:o:453:ALA:H	1:o:470:HIS:HE1	1.55	0.52
1:q:106:VAL:HG23	1:q:214:VAL:CG1	2.40	0.52
1:t:254:ILE:HB	1:y:42:TYR:HB3	1.91	0.52
1:w:409:PRO:O	1:x:223:ILE:HD11	2.09	0.52
1:z:487:LEU:HD21	1:z:509:ALA:HB2	1.90	0.52
1:5:44:ASN:ND2	1:5:201:PRO:HB3	2.23	0.52
1:5:356:PHE:CG	1:5:405:THR:HA	2.44	0.52
1:L:42:TYR:HB3	1:b:254:ILE:HB	1.91	0.52
1:L:487:LEU:HD21	1:L:509:ALA:HB2	1.90	0.52
1:M:487:LEU:HD21	1:M:509:ALA:HB2	1.90	0.52
1:N:106:VAL:HG23	1:N:214:VAL:CG1	2.40	0.52
1:N:409:PRO:O	1:P:223:ILE:HD11	2.10	0.52
1:P:339:TRP:HA	1:P:339:TRP:CE3	2.42	0.52
1:Q:487:LEU:HD21	1:Q:509:ALA:HB2	1.90	0.52
1:R:106:VAL:HG23	1:R:214:VAL:CG1	2.40	0.52
1:R:223:ILE:HD11	1:U:409:PRO:O	2.10	0.52
1:X:453:ALA:H	1:X:470:HIS:HE1	1.55	0.52
1:Y:137:VAL:HG21	1:Y:519:LEU:HD23	1.89	0.52
1:Z:137:VAL:HG21	1:Z:519:LEU:HD23	1.89	0.52
1:Z:223:ILE:HD11	1:3:409:PRO:O	2.10	0.52
1:Z:409:PRO:O	1:4:223:ILE:HD11	2.09	0.52
1:Z:487:LEU:HD21	1:Z:509:ALA:HB2	1.90	0.52
1:c:487:LEU:HD21	1:c:509:ALA:HB2	1.90	0.52
1:i:409:PRO:O	1:j:223:ILE:HD11	2.10	0.52
1:j:409:PRO:O	1:k:223:ILE:HD11	2.10	0.52
1:l:487:LEU:HD21	1:l:509:ALA:HB2	1.90	0.52
1:l:490:ASN:O	1:l:505:ILE:N	2.37	0.52
1:m:468:SER:OG	1:m:471:ALA:O	2.26	0.52
1:o:487:LEU:HD21	1:o:509:ALA:HB2	1.90	0.52
1:q:223:ILE:HD11	1:s:409:PRO:O	2.10	0.52
1:w:356:PHE:CG	1:w:405:THR:HA	2.44	0.52
1:3:487:LEU:HD21	1:3:509:ALA:HB2	1.90	0.52
1:4:490:ASN:O	1:4:505:ILE:N	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:409:PRO:O	1:Q:223:ILE:HD11	2.09	0.52
1:J:490:ASN:O	1:J:505:ILE:N	2.37	0.52
1:K:42:TYR:HB3	1:L:254:ILE:HB	1.90	0.52
1:K:223:ILE:HD11	1:8:409:PRO:O	2.09	0.52
1:L:106:VAL:HG23	1:L:214:VAL:CG1	2.39	0.52
1:O:106:VAL:HG23	1:O:214:VAL:CG1	2.40	0.52
1:O:487:LEU:HD21	1:O:509:ALA:HB2	1.90	0.52
1:P:487:LEU:HD21	1:P:509:ALA:HB2	1.90	0.52
1:S:106:VAL:HG23	1:S:214:VAL:CG1	2.40	0.52
1:V:409:PRO:O	1:e:223:ILE:HD11	2.10	0.52
1:Z:254:ILE:HB	1:a:42:TYR:HB3	1.91	0.52
1:b:42:TYR:HB3	1:o:254:ILE:HB	1.91	0.52
1:c:223:ILE:HD11	1:p:409:PRO:O	2.10	0.52
1:d:356:PHE:CG	1:d:405:THR:HA	2.44	0.52
1:d:409:PRO:O	1:l:223:ILE:HD11	2.10	0.52
1:f:223:ILE:HD11	1:g:409:PRO:O	2.10	0.52
1:g:254:ILE:HB	1:k:42:TYR:HB3	1.90	0.52
1:g:490:ASN:O	1:g:505:ILE:N	2.37	0.52
1:r:106:VAL:HG23	1:r:214:VAL:CG1	2.40	0.52
1:v:75:TYR:OH	1:v:249:GLU:OE1	2.23	0.52
1:z:106:VAL:HG23	1:z:214:VAL:CG1	2.40	0.52
1:3:42:TYR:HB3	1:8:254:ILE:HB	1.91	0.52
1:A:487:LEU:HD21	1:A:509:ALA:HB2	1.90	0.52
1:F:378:ILE:HD11	1:Q:318:SER:HA	1.91	0.52
1:W:145:THR:HG1	1:W:514:THR:HG1	1.52	0.52
1:X:106:VAL:HG23	1:X:214:VAL:CG1	2.40	0.52
1:X:254:ILE:HB	1:f:42:TYR:HB3	1.91	0.52
1:a:487:LEU:HD21	1:a:509:ALA:HB2	1.90	0.52
1:e:487:LEU:HD21	1:e:509:ALA:HB2	1.90	0.52
1:h:356:PHE:CG	1:h:405:THR:HA	2.44	0.52
1:j:487:LEU:HD21	1:j:509:ALA:HB2	1.90	0.52
1:l:106:VAL:HG23	1:l:214:VAL:CG1	2.40	0.52
1:o:106:VAL:HG23	1:o:214:VAL:CG1	2.40	0.52
1:v:487:LEU:HD21	1:v:509:ALA:HB2	1.90	0.52
1:z:254:ILE:HB	1:4:42:TYR:HB3	1.90	0.52
1:1:487:LEU:HD21	1:1:509:ALA:HB2	1.90	0.52
1:7:487:LEU:HD21	1:7:509:ALA:HB2	1.90	0.52
1:8:487:LEU:HD21	1:8:509:ALA:HB2	1.90	0.52
1:H:363:THR:H	1:W:235:LYS:HZ1	1.57	0.52
1:J:409:PRO:O	1:L:223:ILE:HD11	2.09	0.52
1:M:356:PHE:CG	1:M:405:THR:HA	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:106:VAL:HG23	1:e:214:VAL:CG1	2.40	0.52
1:o:42:TYR:HB3	1:7:254:ILE:HB	1.91	0.52
1:z:223:ILE:HD11	1:2:409:PRO:O	2.10	0.52
1:5:254:ILE:HB	1:8:42:TYR:HB3	1.90	0.52
1:B:145:THR:HG22	1:B:264:THR:HG22	1.92	0.52
1:B:487:LEU:HD21	1:B:509:ALA:HB2	1.90	0.52
1:D:106:VAL:HG23	1:D:214:VAL:CG1	2.40	0.52
1:J:363:THR:H	1:L:235:LYS:HZ1	1.58	0.52
1:Q:106:VAL:HG23	1:Q:214:VAL:CG1	2.40	0.52
1:R:145:THR:HG22	1:R:264:THR:HG22	1.92	0.52
1:S:409:PRO:O	1:U:223:ILE:HD11	2.10	0.52
1:X:42:TYR:HB3	1:Y:254:ILE:HB	1.91	0.52
1:X:223:ILE:HD11	1:e:409:PRO:O	2.10	0.52
1:Z:356:PHE:CG	1:Z:405:THR:HA	2.44	0.52
1:f:235:LYS:HZ1	1:g:363:THR:H	1.57	0.52
1:h:42:TYR:HB3	1:i:254:ILE:HB	1.90	0.52
1:k:106:VAL:HG23	1:k:214:VAL:CG1	2.40	0.52
1:n:468:SER:OG	1:n:471:ALA:O	2.26	0.52
1:q:145:THR:HG22	1:q:264:THR:HG22	1.92	0.52
1:r:409:PRO:O	1:s:223:ILE:HD11	2.09	0.52
1:x:106:VAL:HG23	1:x:214:VAL:CG1	2.40	0.52
1:z:235:LYS:HZ1	1:2:363:THR:H	1.58	0.52
1:3:490:ASN:O	1:3:505:ILE:N	2.37	0.52
1:4:145:THR:HG22	1:4:264:THR:HG22	1.92	0.52
1:4:487:LEU:HD21	1:4:509:ALA:HB2	1.90	0.52
1:5:106:VAL:HG23	1:5:214:VAL:CG1	2.40	0.52
1:H:106:VAL:HG23	1:H:214:VAL:CG1	2.40	0.52
1:K:145:THR:HG22	1:K:264:THR:HG22	1.92	0.52
1:T:145:THR:HG22	1:T:264:THR:HG22	1.92	0.52
1:Y:487:LEU:HD21	1:Y:509:ALA:HB2	1.90	0.52
1:b:44:ASN:ND2	1:b:201:PRO:HB3	2.23	0.52
1:c:106:VAL:HG23	1:c:214:VAL:CG1	2.40	0.52
1:f:44:ASN:ND2	1:f:201:PRO:HB3	2.23	0.52
1:x:318:SER:HA	1:y:378:ILE:HD11	1.91	0.52
1:3:145:THR:HG22	1:3:264:THR:HG22	1.92	0.52
1:8:356:PHE:CG	1:8:405:THR:HA	2.44	0.52
1:C:355:PRO:HA	1:C:372:GLY:O	2.10	0.51
1:E:145:THR:HG22	1:E:264:THR:HG22	1.92	0.51
1:F:355:PRO:HA	1:F:372:GLY:O	2.11	0.51
1:H:254:ILE:HB	1:Z:42:TYR:HB3	1.91	0.51
1:K:487:LEU:HD21	1:K:509:ALA:HB2	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:355:PRO:HA	1:L:372:GLY:O	2.10	0.51
1:M:42:TYR:HB3	1:N:254:ILE:HB	1.91	0.51
1:W:355:PRO:HA	1:W:372:GLY:O	2.10	0.51
1:Y:106:VAL:HG23	1:Y:214:VAL:CG1	2.40	0.51
1:Y:355:PRO:HA	1:Y:372:GLY:O	2.10	0.51
1:a:145:THR:HG22	1:a:264:THR:HG22	1.92	0.51
1:a:490:ASN:O	1:a:505:ILE:N	2.37	0.51
1:c:409:PRO:O	1:o:223:ILE:HD11	2.10	0.51
1:m:145:THR:HG22	1:m:264:THR:HG22	1.92	0.51
1:w:145:THR:HG22	1:w:264:THR:HG22	1.92	0.51
1:y:355:PRO:HA	1:y:372:GLY:O	2.11	0.51
1:z:355:PRO:HA	1:z:372:GLY:O	2.10	0.51
1:2:106:VAL:HG23	1:2:214:VAL:CG1	2.40	0.51
1:6:355:PRO:HA	1:6:372:GLY:O	2.10	0.51
1:7:355:PRO:HA	1:7:372:GLY:O	2.10	0.51
1:C:223:ILE:HD11	1:M:409:PRO:O	2.11	0.51
1:C:314:TRP:CZ2	1:C:327:VAL:HG23	2.46	0.51
1:F:145:THR:HG22	1:F:264:THR:HG22	1.92	0.51
1:H:409:PRO:O	1:W:223:ILE:HD11	2.10	0.51
1:K:106:VAL:HG23	1:K:214:VAL:CG1	2.40	0.51
1:L:314:TRP:CZ2	1:L:327:VAL:HG23	2.46	0.51
1:M:145:THR:HG22	1:M:264:THR:HG22	1.92	0.51
1:T:314:TRP:CZ2	1:T:327:VAL:HG23	2.46	0.51
1:T:409:PRO:O	1:d:223:ILE:HD11	2.10	0.51
1:Y:75:TYR:OH	1:Y:249:GLU:OE1	2.22	0.51
1:Y:145:THR:HG22	1:Y:264:THR:HG22	1.92	0.51
1:f:487:LEU:HD21	1:f:509:ALA:HB2	1.90	0.51
1:g:314:TRP:CZ2	1:g:327:VAL:HG23	2.46	0.51
1:g:355:PRO:HA	1:g:372:GLY:O	2.11	0.51
1:h:145:THR:HG22	1:h:264:THR:HG22	1.92	0.51
1:i:453:ALA:H	1:i:470:HIS:HE1	1.55	0.51
1:j:145:THR:HG22	1:j:264:THR:HG22	1.92	0.51
1:l:355:PRO:HA	1:l:372:GLY:O	2.10	0.51
1:m:314:TRP:CZ2	1:m:327:VAL:HG23	2.46	0.51
1:m:409:PRO:O	1:n:223:ILE:HD11	2.10	0.51
1:o:468:SER:OG	1:o:471:ALA:O	2.26	0.51
1:q:409:PRO:O	1:r:223:ILE:HD11	2.10	0.51
1:w:223:ILE:HD11	1:y:409:PRO:O	2.10	0.51
1:y:145:THR:HG22	1:y:264:THR:HG22	1.92	0.51
1:z:314:TRP:CZ2	1:z:327:VAL:HG23	2.46	0.51
1:4:106:VAL:HG23	1:4:214:VAL:CG1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:145:THR:HG22	1:7:264:THR:HG22	1.92	0.51
1:A:314:TRP:CZ2	1:A:327:VAL:HG23	2.46	0.51
1:A:409:PRO:O	1:G:223:ILE:HD11	2.10	0.51
1:E:106:VAL:HG23	1:E:214:VAL:CG1	2.40	0.51
1:G:145:THR:HG22	1:G:264:THR:HG22	1.92	0.51
1:H:42:TYR:HB3	1:I:254:ILE:HB	1.90	0.51
1:J:106:VAL:HG23	1:J:214:VAL:CG1	2.40	0.51
1:N:145:THR:HG22	1:N:264:THR:HG22	1.92	0.51
1:O:409:PRO:O	1:m:223:ILE:HD11	2.09	0.51
1:P:145:THR:HG22	1:P:264:THR:HG22	1.92	0.51
1:R:409:PRO:O	1:S:223:ILE:HD11	2.10	0.51
1:T:223:ILE:HD11	1:l:409:PRO:O	2.09	0.51
1:V:223:ILE:HD11	1:X:409:PRO:O	2.09	0.51
1:X:468:SER:OG	1:X:471:ALA:O	2.26	0.51
1:b:487:LEU:HD21	1:b:509:ALA:HB2	1.90	0.51
1:c:235:LYS:HZ1	1:p:363:THR:H	1.57	0.51
1:d:145:THR:HG22	1:d:264:THR:HG22	1.92	0.51
1:i:145:THR:HG22	1:i:264:THR:HG22	1.92	0.51
1:i:223:ILE:HD11	1:k:409:PRO:O	2.10	0.51
1:n:145:THR:HG22	1:n:264:THR:HG22	1.92	0.51
1:u:254:ILE:HB	1:5:42:TYR:HB3	1.90	0.51
1:w:106:VAL:HG23	1:w:214:VAL:CG1	2.40	0.51
1:1:145:THR:HG22	1:1:264:THR:HG22	1.92	0.51
1:4:314:TRP:CZ2	1:4:327:VAL:HG23	2.46	0.51
1:7:106:VAL:HG23	1:7:214:VAL:CG1	2.40	0.51
1:B:314:TRP:CZ2	1:B:327:VAL:HG23	2.46	0.51
1:D:355:PRO:HA	1:D:372:GLY:O	2.10	0.51
1:F:75:TYR:OH	1:F:249:GLU:OE1	2.22	0.51
1:J:355:PRO:HA	1:J:372:GLY:O	2.11	0.51
1:K:314:TRP:CZ2	1:K:327:VAL:HG23	2.46	0.51
1:L:145:THR:HG22	1:L:264:THR:HG22	1.92	0.51
1:Q:355:PRO:HA	1:Q:372:GLY:O	2.11	0.51
1:U:106:VAL:HG23	1:U:214:VAL:CG1	2.40	0.51
1:X:314:TRP:CZ2	1:X:327:VAL:HG23	2.46	0.51
1:a:106:VAL:HG23	1:a:214:VAL:CG1	2.40	0.51
1:h:106:VAL:HG23	1:h:214:VAL:CG1	2.40	0.51
1:k:355:PRO:HA	1:k:372:GLY:O	2.11	0.51
1:l:145:THR:HG22	1:l:264:THR:HG22	1.92	0.51
1:o:314:TRP:CZ2	1:o:327:VAL:HG23	2.46	0.51
1:s:106:VAL:HG23	1:s:214:VAL:CG1	2.40	0.51
1:t:145:THR:HG22	1:t:264:THR:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:363:THR:H	1:u:235:LYS:HZ1	1.59	0.51
1:x:355:PRO:HA	1:x:372:GLY:O	2.10	0.51
1:2:355:PRO:HA	1:2:372:GLY:O	2.11	0.51
1:3:106:VAL:HG23	1:3:214:VAL:CG1	2.40	0.51
1:5:409:PRO:O	1:6:223:ILE:HD11	2.10	0.51
1:E:223:ILE:HD11	1:F:409:PRO:O	2.10	0.51
1:I:145:THR:HG22	1:I:264:THR:HG22	1.92	0.51
1:M:106:VAL:HG23	1:M:214:VAL:CG1	2.40	0.51
1:N:453:ALA:H	1:N:470:HIS:HE1	1.55	0.51
1:O:145:THR:HG22	1:O:264:THR:HG22	1.92	0.51
1:O:355:PRO:HA	1:O:372:GLY:O	2.11	0.51
1:V:355:PRO:HA	1:V:372:GLY:O	2.10	0.51
1:Y:314:TRP:CZ2	1:Y:327:VAL:HG23	2.46	0.51
1:c:145:THR:HG22	1:c:264:THR:HG22	1.92	0.51
1:c:355:PRO:HA	1:c:372:GLY:O	2.11	0.51
1:e:145:THR:HG22	1:e:264:THR:HG22	1.92	0.51
1:f:280:HIS:HD2	1:f:443:ASP:OD2	1.94	0.51
1:o:409:PRO:O	1:p:223:ILE:HD11	2.09	0.51
1:p:106:VAL:HG23	1:p:214:VAL:CG1	2.40	0.51
1:p:355:PRO:HA	1:p:372:GLY:O	2.10	0.51
1:u:106:VAL:HG23	1:u:214:VAL:CG1	2.40	0.51
1:u:145:THR:HG22	1:u:264:THR:HG22	1.92	0.51
1:v:314:TRP:CZ2	1:v:327:VAL:HG23	2.46	0.51
1:1:314:TRP:CZ2	1:1:327:VAL:HG23	2.46	0.51
1:4:355:PRO:HA	1:4:372:GLY:O	2.10	0.51
1:7:314:TRP:CZ2	1:7:327:VAL:HG23	2.46	0.51
1:D:409:PRO:O	1:N:223:ILE:HD11	2.10	0.51
1:I:106:VAL:HG23	1:I:214:VAL:CG1	2.40	0.51
1:O:314:TRP:CZ2	1:O:327:VAL:HG23	2.46	0.51
1:P:355:PRO:HA	1:P:372:GLY:O	2.11	0.51
1:S:280:HIS:HD2	1:S:443:ASP:OD2	1.94	0.51
1:S:355:PRO:HA	1:S:372:GLY:O	2.11	0.51
1:b:280:HIS:HD2	1:b:443:ASP:OD2	1.94	0.51
1:c:490:ASN:O	1:c:505:ILE:N	2.37	0.51
1:e:355:PRO:HA	1:e:372:GLY:O	2.11	0.51
1:f:409:PRO:O	1:h:223:ILE:HD11	2.10	0.51
1:g:95:ARG:HG3	1:h:421:VAL:CG1	2.41	0.51
1:j:355:PRO:HA	1:j:372:GLY:O	2.11	0.51
1:m:355:PRO:HA	1:m:372:GLY:O	2.11	0.51
1:u:490:ASN:O	1:u:505:ILE:N	2.37	0.51
1:w:355:PRO:HA	1:w:372:GLY:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:145:THR:HG22	1:z:264:THR:HG22	1.92	0.51
1:1:421:VAL:CG1	1:2:95:ARG:HG3	2.41	0.51
1:6:145:THR:HG22	1:6:264:THR:HG22	1.92	0.51
1:A:355:PRO:HA	1:A:372:GLY:O	2.11	0.51
1:B:421:VAL:CG1	1:J:95:ARG:HG3	2.41	0.51
1:C:465:PRO:HG3	1:M:441:ALA:HB2	1.93	0.51
1:D:468:SER:OG	1:D:471:ALA:O	2.26	0.51
1:F:314:TRP:CZ2	1:F:327:VAL:HG23	2.46	0.51
1:H:317:ARG:HD2	1:H:417:LEU:CD1	2.41	0.51
1:K:355:PRO:HA	1:K:372:GLY:O	2.10	0.51
1:L:317:ARG:HD2	1:L:417:LEU:CD1	2.41	0.51
1:M:135:ARG:NH2	1:M:523:LEU:O	2.44	0.51
1:M:280:HIS:HD2	1:M:443:ASP:OD2	1.94	0.51
1:M:314:TRP:CZ2	1:M:327:VAL:HG23	2.46	0.51
1:Q:145:THR:HG22	1:Q:264:THR:HG22	1.92	0.51
1:R:421:VAL:CG1	1:S:95:ARG:HG3	2.41	0.51
1:T:355:PRO:HA	1:T:372:GLY:O	2.11	0.51
1:T:490:ASN:O	1:T:505:ILE:N	2.37	0.51
1:V:106:VAL:HG23	1:V:214:VAL:CG1	2.40	0.51
1:V:135:ARG:NH2	1:V:523:LEU:O	2.44	0.51
1:V:421:VAL:CG1	1:e:95:ARG:HG3	2.41	0.51
1:W:145:THR:HG22	1:W:264:THR:HG22	1.92	0.51
1:X:235:LYS:HZ1	1:e:363:THR:H	1.59	0.51
1:c:95:ARG:HG3	1:p:421:VAL:CG1	2.41	0.51
1:c:135:ARG:NH2	1:c:523:LEU:O	2.44	0.51
1:c:363:THR:H	1:o:235:LYS:HZ1	1.59	0.51
1:e:314:TRP:CZ2	1:e:327:VAL:HG23	2.46	0.51
1:h:135:ARG:NH2	1:h:523:LEU:O	2.44	0.51
1:h:280:HIS:HD2	1:h:443:ASP:OD2	1.94	0.51
1:h:314:TRP:CZ2	1:h:327:VAL:HG23	2.46	0.51
1:k:145:THR:HG22	1:k:264:THR:HG22	1.92	0.51
1:l:314:TRP:CZ2	1:l:327:VAL:HG23	2.46	0.51
1:p:135:ARG:NH2	1:p:523:LEU:O	2.44	0.51
1:q:421:VAL:CG1	1:r:95:ARG:HG3	2.41	0.51
1:r:355:PRO:HA	1:r:372:GLY:O	2.11	0.51
1:v:355:PRO:HA	1:v:372:GLY:O	2.11	0.51
1:z:317:ARG:HD2	1:z:417:LEU:CD1	2.41	0.51
1:5:317:ARG:HD2	1:5:417:LEU:CD1	2.41	0.51
1:8:280:HIS:HD2	1:8:443:ASP:OD2	1.94	0.51
1:D:135:ARG:NH2	1:D:523:LEU:O	2.44	0.51
1:D:145:THR:HG22	1:D:264:THR:HG22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:135:ARG:NH2	1:E:523:LEU:O	2.44	0.51
1:E:355:PRO:HA	1:E:372:GLY:O	2.11	0.51
1:F:280:HIS:HD2	1:F:443:ASP:OD2	1.94	0.51
1:F:339:TRP:HA	1:F:339:TRP:HE3	1.76	0.51
1:J:135:ARG:NH2	1:J:523:LEU:O	2.44	0.51
1:J:421:VAL:CG1	1:L:95:ARG:HG3	2.41	0.51
1:K:135:ARG:NH2	1:K:523:LEU:O	2.44	0.51
1:R:314:TRP:CZ2	1:R:327:VAL:HG23	2.46	0.51
1:S:145:THR:HG22	1:S:264:THR:HG22	1.92	0.51
1:T:487:LEU:HD21	1:T:509:ALA:HB2	1.90	0.51
1:U:135:ARG:NH2	1:U:523:LEU:O	2.44	0.51
1:U:145:THR:HG22	1:U:264:THR:HG22	1.92	0.51
1:W:106:VAL:HG23	1:W:214:VAL:CG1	2.40	0.51
1:W:280:HIS:HD2	1:W:443:ASP:OD2	1.94	0.51
1:W:421:VAL:CG1	1:Y:95:ARG:HG3	2.41	0.51
1:Z:280:HIS:HD2	1:Z:443:ASP:OD2	1.94	0.51
1:e:135:ARG:NH2	1:e:523:LEU:O	2.44	0.51
1:g:135:ARG:NH2	1:g:523:LEU:O	2.44	0.51
1:g:145:THR:HG22	1:g:264:THR:HG22	1.92	0.51
1:m:487:LEU:HD21	1:m:509:ALA:HB2	1.90	0.51
1:n:135:ARG:NH2	1:n:523:LEU:O	2.44	0.51
1:o:317:ARG:HD2	1:o:417:LEU:CD1	2.41	0.51
1:r:145:THR:HG22	1:r:264:THR:HG22	1.92	0.51
1:r:280:HIS:HD2	1:r:443:ASP:OD2	1.94	0.51
1:s:135:ARG:NH2	1:s:523:LEU:O	2.44	0.51
1:s:145:THR:HG22	1:s:264:THR:HG22	1.92	0.51
1:s:314:TRP:CZ2	1:s:327:VAL:HG23	2.46	0.51
1:t:223:ILE:HD11	1:v:409:PRO:O	2.11	0.51
1:w:280:HIS:HD2	1:w:443:ASP:OD2	1.94	0.51
1:x:145:THR:HG22	1:x:264:THR:HG22	1.92	0.51
1:y:75:TYR:OH	1:y:249:GLU:OE1	2.22	0.51
1:y:280:HIS:HD2	1:y:443:ASP:OD2	1.94	0.51
1:y:468:SER:OG	1:y:471:ALA:O	2.26	0.51
1:4:135:ARG:NH2	1:4:523:LEU:O	2.44	0.51
1:6:314:TRP:CZ2	1:6:327:VAL:HG23	2.46	0.51
1:C:135:ARG:NH2	1:C:523:LEU:O	2.44	0.51
1:C:145:THR:HG22	1:C:264:THR:HG22	1.92	0.51
1:C:235:LYS:NZ	1:M:363:THR:H	2.09	0.51
1:E:280:HIS:HD2	1:E:443:ASP:OD2	1.94	0.51
1:H:468:SER:OG	1:H:471:ALA:O	2.26	0.51
1:I:490:ASN:O	1:I:505:ILE:N	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:339:TRP:HA	1:K:339:TRP:HE3	1.76	0.51
1:N:280:HIS:HD2	1:N:443:ASP:OD2	1.94	0.51
1:N:355:PRO:HA	1:N:372:GLY:O	2.10	0.51
1:S:421:VAL:CG1	1:U:95:ARG:HG3	2.41	0.51
1:T:135:ARG:NH2	1:T:523:LEU:O	2.44	0.51
1:U:314:TRP:CZ2	1:U:327:VAL:HG23	2.46	0.51
1:V:95:ARG:HG3	1:X:421:VAL:CG1	2.41	0.51
1:V:280:HIS:HD2	1:V:443:ASP:OD2	1.94	0.51
1:W:314:TRP:CZ2	1:W:327:VAL:HG23	2.46	0.51
1:X:317:ARG:HD2	1:X:417:LEU:CD1	2.41	0.51
1:Y:339:TRP:HA	1:Y:339:TRP:HE3	1.76	0.51
1:a:314:TRP:CZ2	1:a:327:VAL:HG23	2.46	0.51
1:b:314:TRP:CZ2	1:b:327:VAL:HG23	2.46	0.51
1:b:317:ARG:HD2	1:b:417:LEU:CD1	2.41	0.51
1:b:355:PRO:HA	1:b:372:GLY:O	2.11	0.51
1:c:314:TRP:CZ2	1:c:327:VAL:HG23	2.46	0.51
1:d:135:ARG:NH2	1:d:523:LEU:O	2.44	0.51
1:f:339:TRP:HA	1:f:339:TRP:HE3	1.76	0.51
1:k:135:ARG:NH2	1:k:523:LEU:O	2.44	0.51
1:k:280:HIS:HD2	1:k:443:ASP:OD2	1.94	0.51
1:m:135:ARG:NH2	1:m:523:LEU:O	2.44	0.51
1:o:421:VAL:CG1	1:p:95:ARG:HG3	2.41	0.51
1:p:280:HIS:HD2	1:p:443:ASP:OD2	1.94	0.51
1:q:314:TRP:CZ2	1:q:327:VAL:HG23	2.46	0.51
1:r:421:VAL:CG1	1:s:95:ARG:HG3	2.41	0.51
1:w:135:ARG:NH2	1:w:523:LEU:O	2.44	0.51
1:y:314:TRP:CZ2	1:y:327:VAL:HG23	2.46	0.51
1:z:95:ARG:HG3	1:2:421:VAL:CG1	2.41	0.51
1:2:135:ARG:NH2	1:2:523:LEU:O	2.44	0.51
1:3:355:PRO:HA	1:3:372:GLY:O	2.10	0.51
1:4:339:TRP:HA	1:4:339:TRP:HE3	1.76	0.51
1:5:355:PRO:HA	1:5:372:GLY:O	2.11	0.51
1:5:363:THR:H	1:6:235:LYS:HZ1	1.58	0.51
1:6:280:HIS:HD2	1:6:443:ASP:OD2	1.94	0.51
1:6:421:VAL:CG1	1:7:95:ARG:HG3	2.41	0.51
1:D:95:ARG:HG3	1:P:421:VAL:CG1	2.41	0.51
1:D:280:HIS:HD2	1:D:443:ASP:OD2	1.94	0.51
1:F:135:ARG:NH2	1:F:523:LEU:O	2.44	0.51
1:H:355:PRO:HA	1:H:372:GLY:O	2.10	0.51
1:J:468:SER:OG	1:J:471:ALA:O	2.26	0.51
1:K:280:HIS:HD2	1:K:443:ASP:OD2	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:317:ARG:HD2	1:O:417:LEU:CD1	2.41	0.51
1:O:421:VAL:CG1	1:m:95:ARG:HG3	2.41	0.51
1:T:95:ARG:HG3	1:l:421:VAL:CG1	2.41	0.51
1:V:317:ARG:HD2	1:V:417:LEU:CD1	2.41	0.51
1:X:135:ARG:NH2	1:X:523:LEU:O	2.44	0.51
1:a:317:ARG:HD2	1:a:417:LEU:CD1	2.41	0.51
1:a:355:PRO:HA	1:a:372:GLY:O	2.11	0.51
1:d:314:TRP:CZ2	1:d:327:VAL:HG23	2.46	0.51
1:e:490:ASN:O	1:e:505:ILE:N	2.37	0.51
1:f:314:TRP:CZ2	1:f:327:VAL:HG23	2.46	0.51
1:f:317:ARG:HD2	1:f:417:LEU:CD1	2.41	0.51
1:f:355:PRO:HA	1:f:372:GLY:O	2.11	0.51
1:i:280:HIS:HD2	1:i:443:ASP:OD2	1.94	0.51
1:j:421:VAL:CG1	1:k:95:ARG:HG3	2.41	0.51
1:k:314:TRP:CZ2	1:k:327:VAL:HG23	2.46	0.51
1:m:280:HIS:HD2	1:m:443:ASP:OD2	1.94	0.51
1:m:421:VAL:CG1	1:n:95:ARG:HG3	2.41	0.51
1:n:314:TRP:CZ2	1:n:327:VAL:HG23	2.46	0.51
1:p:317:ARG:HD2	1:p:417:LEU:CD1	2.41	0.51
1:y:135:ARG:NH2	1:y:523:LEU:O	2.44	0.51
1:z:280:HIS:HD2	1:z:443:ASP:OD2	1.94	0.51
1:z:339:TRP:HA	1:z:339:TRP:HE3	1.76	0.51
1:1:355:PRO:HA	1:1:372:GLY:O	2.10	0.51
1:2:468:SER:OG	1:2:471:ALA:O	2.26	0.51
1:3:95:ARG:HG3	1:4:421:VAL:CG1	2.41	0.51
1:3:317:ARG:HD2	1:3:417:LEU:CD1	2.41	0.51
1:5:468:SER:OG	1:5:471:ALA:O	2.26	0.51
1:6:106:VAL:HG23	1:6:214:VAL:CG1	2.40	0.51
1:8:145:THR:HG22	1:8:264:THR:HG22	1.92	0.51
1:8:314:TRP:CZ2	1:8:327:VAL:HG23	2.46	0.51
1:A:135:ARG:NH2	1:A:523:LEU:O	2.44	0.50
1:A:339:TRP:HA	1:A:339:TRP:HE3	1.76	0.50
1:B:95:ARG:HG3	1:L:421:VAL:CG1	2.41	0.50
1:B:409:PRO:O	1:J:223:ILE:HD11	2.10	0.50
1:E:317:ARG:HD2	1:E:417:LEU:CD1	2.41	0.50
1:G:314:TRP:CZ2	1:G:327:VAL:HG23	2.46	0.50
1:G:339:TRP:HA	1:G:339:TRP:HE3	1.76	0.50
1:G:431:ASP:HB2	1:G:433:HIS:CD2	2.47	0.50
1:H:314:TRP:CZ2	1:H:327:VAL:HG23	2.46	0.50
1:K:421:VAL:CG1	1:a:95:ARG:HG3	2.41	0.50
1:L:280:HIS:HD2	1:L:443:ASP:OD2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:339:TRP:HA	1:L:339:TRP:HE3	1.76	0.50
1:M:223:ILE:HD11	1:b:409:PRO:O	2.10	0.50
1:N:421:VAL:CG1	1:P:95:ARG:HG3	2.41	0.50
1:P:135:ARG:NH2	1:P:523:LEU:O	2.44	0.50
1:Q:431:ASP:HB2	1:Q:433:HIS:CD2	2.46	0.50
1:R:355:PRO:HA	1:R:372:GLY:O	2.10	0.50
1:S:431:ASP:HB2	1:S:433:HIS:CD2	2.47	0.50
1:T:280:HIS:HD2	1:T:443:ASP:OD2	1.94	0.50
1:V:431:ASP:HB2	1:V:433:HIS:CD2	2.46	0.50
1:Z:314:TRP:CZ2	1:Z:327:VAL:HG23	2.46	0.50
1:Z:355:PRO:HA	1:Z:372:GLY:O	2.10	0.50
1:a:431:ASP:HB2	1:a:433:HIS:CD2	2.47	0.50
1:e:280:HIS:HD2	1:e:443:ASP:OD2	1.94	0.50
1:e:339:TRP:HA	1:e:339:TRP:HE3	1.76	0.50
1:i:355:PRO:HA	1:i:372:GLY:O	2.11	0.50
1:i:421:VAL:CG1	1:j:95:ARG:HG3	2.41	0.50
1:j:135:ARG:NH2	1:j:523:LEU:O	2.44	0.50
1:j:314:TRP:CZ2	1:j:327:VAL:HG23	2.46	0.50
1:m:317:ARG:HD2	1:m:417:LEU:CD1	2.41	0.50
1:m:490:ASN:O	1:m:505:ILE:N	2.37	0.50
1:o:135:ARG:NH2	1:o:523:LEU:O	2.44	0.50
1:p:145:THR:HG22	1:p:264:THR:HG22	1.92	0.50
1:p:431:ASP:HB2	1:p:433:HIS:CD2	2.47	0.50
1:q:95:ARG:HG3	1:s:421:VAL:CG1	2.41	0.50
1:s:317:ARG:HD2	1:s:417:LEU:CD1	2.41	0.50
1:t:314:TRP:CZ2	1:t:327:VAL:HG23	2.46	0.50
1:w:317:ARG:HD2	1:w:417:LEU:CD1	2.41	0.50
1:y:339:TRP:HA	1:y:339:TRP:HE3	1.76	0.50
1:z:421:VAL:CG1	1:1:95:ARG:HG3	2.41	0.50
1:1:135:ARG:NH2	1:1:523:LEU:O	2.44	0.50
1:1:409:PRO:O	1:2:223:ILE:HD11	2.10	0.50
1:3:314:TRP:CZ2	1:3:327:VAL:HG23	2.46	0.50
1:3:431:ASP:HB2	1:3:433:HIS:CD2	2.47	0.50
1:4:280:HIS:HD2	1:4:443:ASP:OD2	1.94	0.50
1:5:314:TRP:CZ2	1:5:327:VAL:HG23	2.46	0.50
1:7:339:TRP:HA	1:7:339:TRP:HE3	1.76	0.50
1:A:106:VAL:HG23	1:A:214:VAL:CG1	2.40	0.50
1:B:135:ARG:NH2	1:B:523:LEU:O	2.44	0.50
1:B:355:PRO:HA	1:B:372:GLY:O	2.10	0.50
1:D:314:TRP:CZ2	1:D:327:VAL:HG23	2.46	0.50
1:D:317:ARG:HD2	1:D:417:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:421:VAL:CG1	1:W:95:ARG:HG3	2.41	0.50
1:K:431:ASP:HB2	1:K:433:HIS:CD2	2.47	0.50
1:M:355:PRO:HA	1:M:372:GLY:O	2.11	0.50
1:N:135:ARG:NH2	1:N:523:LEU:O	2.44	0.50
1:O:280:HIS:HD2	1:O:443:ASP:OD2	1.94	0.50
1:P:314:TRP:CZ2	1:P:327:VAL:HG23	2.46	0.50
1:R:135:ARG:NH2	1:R:523:LEU:O	2.44	0.50
1:T:421:VAL:CG1	1:d:95:ARG:HG3	2.41	0.50
1:U:280:HIS:HD2	1:U:443:ASP:OD2	1.94	0.50
1:V:145:THR:HG22	1:V:264:THR:HG22	1.92	0.50
1:Z:145:THR:HG22	1:Z:264:THR:HG22	1.92	0.50
1:c:280:HIS:HD2	1:c:443:ASP:OD2	1.94	0.50
1:c:339:TRP:HA	1:c:339:TRP:HE3	1.76	0.50
1:d:280:HIS:HD2	1:d:443:ASP:OD2	1.94	0.50
1:j:339:TRP:HA	1:j:339:TRP:HE3	1.76	0.50
1:k:317:ARG:HD2	1:k:417:LEU:CD1	2.41	0.50
1:l:317:ARG:HD2	1:l:417:LEU:CD1	2.41	0.50
1:p:314:TRP:CZ2	1:p:327:VAL:HG23	2.46	0.50
1:q:135:ARG:NH2	1:q:523:LEU:O	2.44	0.50
1:u:311:GLY:HA2	1:v:194:LEU:HD13	1.93	0.50
1:v:106:VAL:HG23	1:v:214:VAL:CG1	2.40	0.50
1:v:135:ARG:NH2	1:v:523:LEU:O	2.44	0.50
1:x:431:ASP:HB2	1:x:433:HIS:CD2	2.47	0.50
1:y:317:ARG:HD2	1:y:417:LEU:CD1	2.41	0.50
1:4:431:ASP:HB2	1:4:433:HIS:CD2	2.47	0.50
1:A:145:THR:HG22	1:A:264:THR:HG22	1.92	0.50
1:B:280:HIS:HD2	1:B:443:ASP:OD2	1.94	0.50
1:E:363:THR:H	1:Q:235:LYS:HZ1	1.60	0.50
1:F:317:ARG:HD2	1:F:417:LEU:CD1	2.41	0.50
1:F:340:ARG:NH2	1:Q:431:ASP:OD2	2.45	0.50
1:H:73:GLU:OE1	1:H:486:LYS:NZ	2.41	0.50
1:H:135:ARG:NH2	1:H:523:LEU:O	2.44	0.50
1:J:75:TYR:OH	1:J:249:GLU:OE1	2.22	0.50
1:J:145:THR:HG22	1:J:264:THR:HG22	1.92	0.50
1:J:431:ASP:HB2	1:J:433:HIS:CD2	2.47	0.50
1:N:314:TRP:CZ2	1:N:327:VAL:HG23	2.46	0.50
1:P:339:TRP:HA	1:P:339:TRP:HE3	1.76	0.50
1:Q:339:TRP:HA	1:Q:339:TRP:HE3	1.76	0.50
1:R:95:ARG:HG3	1:U:421:VAL:CG1	2.41	0.50
1:R:317:ARG:HD2	1:R:417:LEU:CD1	2.41	0.50
1:T:317:ARG:HD2	1:T:417:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:317:ARG:HD2	1:U:417:LEU:CD1	2.41	0.50
1:V:314:TRP:CZ2	1:V:327:VAL:HG23	2.46	0.50
1:V:363:THR:H	1:e:235:LYS:HZ1	1.58	0.50
1:Z:135:ARG:NH2	1:Z:523:LEU:O	2.44	0.50
1:b:339:TRP:HA	1:b:339:TRP:HE3	1.76	0.50
1:f:145:THR:HG22	1:f:264:THR:HG22	1.92	0.50
1:h:355:PRO:HA	1:h:372:GLY:O	2.11	0.50
1:i:135:ARG:NH2	1:i:523:LEU:O	2.44	0.50
1:i:314:TRP:CZ2	1:i:327:VAL:HG23	2.46	0.50
1:j:431:ASP:HB2	1:j:433:HIS:CD2	2.47	0.50
1:l:135:ARG:NH2	1:l:523:LEU:O	2.44	0.50
1:l:280:HIS:HD2	1:l:443:ASP:OD2	1.94	0.50
1:m:339:TRP:HA	1:m:339:TRP:HE3	1.76	0.50
1:n:280:HIS:HD2	1:n:443:ASP:OD2	1.94	0.50
1:o:145:THR:HG22	1:o:264:THR:HG22	1.92	0.50
1:r:339:TRP:HA	1:r:339:TRP:HE3	1.76	0.50
1:r:431:ASP:HB2	1:r:433:HIS:CD2	2.47	0.50
1:u:75:TYR:OH	1:u:249:GLU:OE1	2.22	0.50
1:u:339:TRP:HA	1:u:339:TRP:HE3	1.76	0.50
1:w:431:ASP:HB2	1:w:433:HIS:CD2	2.46	0.50
1:x:339:TRP:HA	1:x:339:TRP:HE3	1.76	0.50
1:1:280:HIS:HD2	1:1:443:ASP:OD2	1.94	0.50
1:2:145:THR:HG22	1:2:264:THR:HG22	1.92	0.50
1:5:135:ARG:NH2	1:5:523:LEU:O	2.44	0.50
1:5:223:ILE:HD11	1:7:409:PRO:O	2.10	0.50
1:5:339:TRP:HA	1:5:339:TRP:HE3	1.76	0.50
1:5:421:VAL:CG1	1:6:95:ARG:HG3	2.41	0.50
1:8:355:PRO:HA	1:8:372:GLY:O	2.10	0.50
1:D:421:VAL:CG1	1:N:95:ARG:HG3	2.41	0.50
1:E:339:TRP:HA	1:E:339:TRP:HE3	1.76	0.50
1:E:431:ASP:HB2	1:E:433:HIS:CD2	2.47	0.50
1:H:223:ILE:HD11	1:Y:409:PRO:O	2.10	0.50
1:H:431:ASP:HB2	1:H:433:HIS:CD2	2.47	0.50
1:P:431:ASP:HB2	1:P:433:HIS:CD2	2.47	0.50
1:R:283:SER:H	1:R:286:HIS:CD2	2.30	0.50
1:R:431:ASP:HB2	1:R:433:HIS:CD2	2.47	0.50
1:S:283:SER:H	1:S:286:HIS:CD2	2.30	0.50
1:S:339:TRP:HA	1:S:339:TRP:HE3	1.76	0.50
1:T:339:TRP:HA	1:T:339:TRP:HE3	1.76	0.50
1:W:317:ARG:HD2	1:W:417:LEU:CD1	2.41	0.50
1:X:145:THR:HG22	1:X:264:THR:HG22	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:280:HIS:HD2	1:Y:443:ASP:OD2	1.94	0.50
1:b:145:THR:HG22	1:b:264:THR:HG22	1.92	0.50
1:d:355:PRO:HA	1:d:372:GLY:O	2.11	0.50
1:d:431:ASP:HB2	1:d:433:HIS:CD2	2.47	0.50
1:d:468:SER:OG	1:d:471:ALA:O	2.26	0.50
1:d:547:LEU:HD21	1:n:530:ASN:ND2	2.27	0.50
1:i:95:ARG:HG3	1:k:421:VAL:CG1	2.41	0.50
1:i:317:ARG:HD2	1:i:417:LEU:CD1	2.41	0.50
1:k:431:ASP:HB2	1:k:433:HIS:CD2	2.47	0.50
1:n:355:PRO:HA	1:n:372:GLY:O	2.11	0.50
1:n:431:ASP:HB2	1:n:433:HIS:CD2	2.47	0.50
1:q:317:ARG:HD2	1:q:417:LEU:CD1	2.41	0.50
1:q:355:PRO:HA	1:q:372:GLY:O	2.11	0.50
1:r:283:SER:H	1:r:286:HIS:CD2	2.30	0.50
1:s:280:HIS:HD2	1:s:443:ASP:OD2	1.94	0.50
1:t:339:TRP:HA	1:t:339:TRP:HE3	1.76	0.50
1:t:355:PRO:HA	1:t:372:GLY:O	2.11	0.50
1:t:431:ASP:HB2	1:t:433:HIS:CD2	2.47	0.50
1:u:318:SER:HA	1:v:378:ILE:HD11	1.94	0.50
1:v:547:LEU:HD21	1:y:530:ASN:ND2	2.27	0.50
1:x:431:ASP:OD2	1:y:340:ARG:NH2	2.45	0.50
1:2:75:TYR:OH	1:2:249:GLU:OE1	2.23	0.50
1:2:339:TRP:HA	1:2:339:TRP:HE3	1.76	0.50
1:2:431:ASP:HB2	1:2:433:HIS:CD2	2.47	0.50
1:8:135:ARG:NH2	1:8:523:LEU:O	2.44	0.50
1:8:283:SER:H	1:8:286:HIS:CD2	2.30	0.50
1:A:490:ASN:O	1:A:505:ILE:N	2.37	0.50
1:D:431:ASP:HB2	1:D:433:HIS:CD2	2.47	0.50
1:G:355:PRO:HA	1:G:372:GLY:O	2.11	0.50
1:H:339:TRP:HA	1:H:339:TRP:HE3	1.76	0.50
1:I:339:TRP:HA	1:I:339:TRP:HE3	1.76	0.50
1:J:314:TRP:CZ2	1:J:327:VAL:HG23	2.46	0.50
1:J:339:TRP:HA	1:J:339:TRP:HE3	1.76	0.50
1:N:317:ARG:HD2	1:N:417:LEU:CD1	2.41	0.50
1:P:317:ARG:HD2	1:P:417:LEU:CD1	2.41	0.50
1:Q:280:HIS:HD2	1:Q:443:ASP:OD2	1.94	0.50
1:Q:314:TRP:CZ2	1:Q:327:VAL:HG23	2.46	0.50
1:S:135:ARG:NH2	1:S:523:LEU:O	2.44	0.50
1:S:314:TRP:CZ2	1:S:327:VAL:HG23	2.46	0.50
1:S:317:ARG:HD2	1:S:417:LEU:CD1	2.41	0.50
1:T:431:ASP:HB2	1:T:433:HIS:CD2	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:355:PRO:HA	1:U:372:GLY:O	2.11	0.50
1:W:431:ASP:HB2	1:W:433:HIS:CD2	2.47	0.50
1:Z:490:ASN:O	1:Z:505:ILE:N	2.37	0.50
1:d:311:GLY:HA2	1:l:194:LEU:HD13	1.94	0.50
1:f:95:ARG:HG3	1:g:421:VAL:CG1	2.41	0.50
1:h:339:TRP:HA	1:h:339:TRP:HE3	1.76	0.50
1:i:245:PHE:CZ	1:i:247:PRO:HG3	2.47	0.50
1:j:317:ARG:HD2	1:j:417:LEU:CD1	2.41	0.50
1:j:363:THR:H	1:k:235:LYS:HZ1	1.59	0.50
1:m:431:ASP:HB2	1:m:433:HIS:CD2	2.47	0.50
1:n:317:ARG:HD2	1:n:417:LEU:CD1	2.41	0.50
1:o:280:HIS:HD2	1:o:443:ASP:OD2	1.94	0.50
1:q:283:SER:H	1:q:286:HIS:CD2	2.30	0.50
1:r:135:ARG:NH2	1:r:523:LEU:O	2.44	0.50
1:r:314:TRP:CZ2	1:r:327:VAL:HG23	2.46	0.50
1:r:317:ARG:HD2	1:r:417:LEU:CD1	2.41	0.50
1:v:145:THR:HG22	1:v:264:THR:HG22	1.92	0.50
1:v:283:SER:H	1:v:286:HIS:CD2	2.30	0.50
1:v:339:TRP:HA	1:v:339:TRP:HE3	1.76	0.50
1:w:421:VAL:CG1	1:x:95:ARG:HG3	2.41	0.50
1:x:245:PHE:CZ	1:x:247:PRO:HG3	2.47	0.50
1:x:280:HIS:HD2	1:x:443:ASP:OD2	1.94	0.50
1:x:314:TRP:CZ2	1:x:327:VAL:HG23	2.46	0.50
1:y:431:ASP:HB2	1:y:433:HIS:CD2	2.47	0.50
1:3:280:HIS:HD2	1:3:443:ASP:OD2	1.94	0.50
1:5:73:GLU:OE1	1:5:486:LYS:NZ	2.41	0.50
1:5:431:ASP:HB2	1:5:433:HIS:CD2	2.47	0.50
1:6:317:ARG:HD2	1:6:417:LEU:CD1	2.41	0.50
1:7:135:ARG:NH2	1:7:523:LEU:O	2.44	0.50
1:7:280:HIS:HD2	1:7:443:ASP:OD2	1.94	0.50
1:8:490:ASN:O	1:8:505:ILE:N	2.37	0.50
1:A:280:HIS:HD2	1:A:443:ASP:OD2	1.94	0.50
1:A:283:SER:H	1:A:286:HIS:CD2	2.30	0.50
1:B:245:PHE:CZ	1:B:247:PRO:HG3	2.47	0.50
1:B:339:TRP:HA	1:B:339:TRP:HE3	1.76	0.50
1:C:317:ARG:HD2	1:C:417:LEU:CD1	2.41	0.50
1:I:280:HIS:HD2	1:I:443:ASP:OD2	1.94	0.50
1:I:355:PRO:HA	1:I:372:GLY:O	2.10	0.50
1:J:317:ARG:HD2	1:J:417:LEU:CD1	2.41	0.50
1:L:245:PHE:CZ	1:L:247:PRO:HG3	2.47	0.50
1:M:339:TRP:HA	1:M:339:TRP:HE3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:245:PHE:CZ	1:N:247:PRO:HG3	2.47	0.50
1:P:245:PHE:CZ	1:P:247:PRO:HG3	2.47	0.50
1:Q:245:PHE:CZ	1:Q:247:PRO:HG3	2.47	0.50
1:Q:317:ARG:HD2	1:Q:417:LEU:CD1	2.41	0.50
1:V:245:PHE:CZ	1:V:247:PRO:HG3	2.47	0.50
1:X:245:PHE:CZ	1:X:247:PRO:HG3	2.47	0.50
1:Y:135:ARG:NH2	1:Y:523:LEU:O	2.44	0.50
1:Y:283:SER:H	1:Y:286:HIS:CD2	2.30	0.50
1:Z:283:SER:H	1:Z:286:HIS:CD2	2.30	0.50
1:a:280:HIS:HD2	1:a:443:ASP:OD2	1.94	0.50
1:a:421:VAL:CG1	1:8:95:ARG:HG3	2.42	0.50
1:d:317:ARG:HD2	1:d:417:LEU:CD1	2.41	0.50
1:m:75:TYR:OH	1:m:249:GLU:OE1	2.22	0.50
1:n:283:SER:H	1:n:286:HIS:CD2	2.30	0.50
1:p:245:PHE:CZ	1:p:247:PRO:HG3	2.47	0.50
1:s:355:PRO:HA	1:s:372:GLY:O	2.10	0.50
1:u:355:PRO:HA	1:u:372:GLY:O	2.11	0.50
1:u:409:PRO:O	1:v:223:ILE:HD11	2.11	0.50
1:w:95:ARG:HG3	1:y:421:VAL:CG1	2.42	0.50
1:x:310:ASN:HB2	1:y:378:ILE:O	2.12	0.50
1:x:317:ARG:HD2	1:x:417:LEU:CD1	2.41	0.50
1:z:245:PHE:CZ	1:z:247:PRO:HG3	2.47	0.50
1:1:339:TRP:HA	1:1:339:TRP:HE3	1.76	0.50
1:2:317:ARG:HD2	1:2:417:LEU:CD1	2.41	0.50
1:6:431:ASP:HB2	1:6:433:HIS:CD2	2.47	0.50
1:E:314:TRP:CZ2	1:E:327:VAL:HG23	2.46	0.50
1:F:431:ASP:HB2	1:F:433:HIS:CD2	2.47	0.50
1:H:95:ARG:HG3	1:Y:421:VAL:CG1	2.41	0.50
1:H:145:THR:HG22	1:H:264:THR:HG22	1.92	0.50
1:I:75:TYR:OH	1:I:249:GLU:OE1	2.22	0.50
1:L:75:TYR:OH	1:L:249:GLU:OE1	2.22	0.50
1:L:135:ARG:NH2	1:L:523:LEU:O	2.44	0.50
1:N:283:SER:H	1:N:286:HIS:CD2	2.30	0.50
1:T:75:TYR:OH	1:T:249:GLU:OE1	2.22	0.50
1:T:363:THR:H	1:d:235:LYS:HZ1	1.58	0.50
1:U:121:TRP:CE3	1:U:517:LEU:HG	2.47	0.50
1:V:75:TYR:OH	1:V:249:GLU:OE1	2.22	0.50
1:X:280:HIS:HD2	1:X:443:ASP:OD2	1.94	0.50
1:Z:95:ARG:HG3	1:3:421:VAL:CG1	2.42	0.50
1:a:530:ASN:ND2	1:3:547:LEU:HD21	2.27	0.50
1:a:547:LEU:HD21	1:3:530:ASN:ND2	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:283:SER:H	1:d:286:HIS:CD2	2.30	0.50
1:g:317:ARG:HD2	1:g:417:LEU:CD1	2.41	0.50
1:h:431:ASP:HB2	1:h:433:HIS:CD2	2.47	0.50
1:i:311:GLY:HA2	1:j:194:LEU:HD13	1.94	0.50
1:j:245:PHE:CZ	1:j:247:PRO:HG3	2.47	0.50
1:o:245:PHE:CZ	1:o:247:PRO:HG3	2.47	0.50
1:q:431:ASP:HB2	1:q:433:HIS:CD2	2.47	0.50
1:t:95:ARG:HG3	1:v:421:VAL:CG1	2.42	0.50
1:u:135:ARG:NH2	1:u:523:LEU:O	2.44	0.50
1:v:490:ASN:O	1:v:505:ILE:N	2.37	0.50
1:w:339:TRP:HA	1:w:339:TRP:HE3	1.76	0.50
1:1:245:PHE:CZ	1:1:247:PRO:HG3	2.47	0.50
1:2:314:TRP:CZ2	1:2:327:VAL:HG23	2.46	0.50
1:5:95:ARG:HG3	1:7:421:VAL:CG1	2.41	0.50
1:5:145:THR:HG22	1:5:264:THR:HG22	1.92	0.50
1:5:194:LEU:HD13	1:7:311:GLY:HA2	1.94	0.50
1:7:283:SER:H	1:7:286:HIS:CD2	2.30	0.50
1:A:245:PHE:CZ	1:A:247:PRO:HG3	2.47	0.50
1:H:194:LEU:HD13	1:Y:311:GLY:HA2	1.94	0.50
1:L:131:THR:O	1:L:524:ARG:NH1	2.45	0.50
1:M:194:LEU:HD13	1:b:311:GLY:HA2	1.93	0.50
1:N:311:GLY:HA2	1:P:194:LEU:HD13	1.94	0.50
1:O:95:ARG:HG3	1:n:421:VAL:CG1	2.42	0.50
1:R:194:LEU:HD13	1:U:311:GLY:HA2	1.94	0.50
1:U:245:PHE:CZ	1:U:247:PRO:HG3	2.47	0.50
1:V:283:SER:H	1:V:286:HIS:CD2	2.30	0.50
1:W:363:THR:H	1:Y:235:LYS:HZ1	1.58	0.50
1:Y:317:ARG:HD2	1:Y:417:LEU:CD1	2.41	0.50
1:a:131:THR:O	1:a:524:ARG:NH1	2.45	0.50
1:b:121:TRP:CE3	1:b:517:LEU:HG	2.47	0.50
1:b:547:LEU:HD21	1:c:530:ASN:ND2	2.27	0.50
1:d:245:PHE:CZ	1:d:247:PRO:HG3	2.47	0.50
1:d:530:ASN:ND2	1:n:547:LEU:HD21	2.27	0.50
1:g:283:SER:H	1:g:286:HIS:CD2	2.30	0.50
1:h:283:SER:H	1:h:286:HIS:CD2	2.30	0.50
1:j:283:SER:H	1:j:286:HIS:CD2	2.30	0.50
1:m:363:THR:H	1:n:235:LYS:HZ1	1.58	0.50
1:n:245:PHE:CZ	1:n:247:PRO:HG3	2.47	0.50
1:p:283:SER:H	1:p:286:HIS:CD2	2.30	0.50
1:q:280:HIS:HD2	1:q:443:ASP:OD2	1.94	0.50
1:r:245:PHE:CZ	1:r:247:PRO:HG3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:245:PHE:CZ	1:s:247:PRO:HG3	2.47	0.50
1:u:280:HIS:HD2	1:u:443:ASP:OD2	1.94	0.50
1:v:245:PHE:CZ	1:v:247:PRO:HG3	2.47	0.50
1:v:280:HIS:HD2	1:v:443:ASP:OD2	1.94	0.50
1:z:431:ASP:HB2	1:z:433:HIS:CD2	2.47	0.50
1:1:121:TRP:CE3	1:1:517:LEU:HG	2.47	0.50
1:1:317:ARG:HD2	1:1:417:LEU:CD1	2.41	0.50
1:3:131:THR:O	1:3:524:ARG:NH1	2.45	0.50
1:3:245:PHE:CZ	1:3:247:PRO:HG3	2.47	0.50
1:A:121:TRP:CE3	1:A:517:LEU:HG	2.47	0.50
1:A:547:LEU:HD21	1:F:530:ASN:ND2	2.27	0.50
1:B:317:ARG:HD2	1:B:417:LEU:CD1	2.41	0.50
1:C:283:SER:H	1:C:286:HIS:CD2	2.30	0.50
1:C:378:ILE:O	1:M:310:ASN:HB2	2.12	0.50
1:D:245:PHE:CZ	1:D:247:PRO:HG3	2.47	0.50
1:E:95:ARG:HG3	1:F:421:VAL:CG1	2.42	0.50
1:F:378:ILE:O	1:Q:310:ASN:HB2	2.12	0.50
1:G:135:ARG:NH2	1:G:523:LEU:O	2.44	0.50
1:G:280:HIS:HD2	1:G:443:ASP:OD2	1.94	0.50
1:G:431:ASP:OD2	1:I:340:ARG:NH2	2.45	0.50
1:I:135:ARG:NH2	1:I:523:LEU:O	2.44	0.50
1:I:283:SER:H	1:I:286:HIS:CD2	2.30	0.50
1:I:317:ARG:HD2	1:I:417:LEU:CD1	2.41	0.50
1:J:283:SER:H	1:J:286:HIS:CD2	2.30	0.50
1:K:131:THR:O	1:K:524:ARG:NH1	2.45	0.50
1:K:245:PHE:CZ	1:K:247:PRO:HG3	2.47	0.50
1:K:283:SER:H	1:K:286:HIS:CD2	2.30	0.50
1:K:317:ARG:HD2	1:K:417:LEU:CD1	2.41	0.50
1:L:431:ASP:HB2	1:L:433:HIS:CD2	2.47	0.50
1:M:283:SER:H	1:M:286:HIS:CD2	2.30	0.50
1:M:431:ASP:HB2	1:M:433:HIS:CD2	2.47	0.50
1:O:135:ARG:NH2	1:O:523:LEU:O	2.44	0.50
1:O:194:LEU:HD13	1:n:311:GLY:HA2	1.94	0.50
1:O:431:ASP:HB2	1:O:433:HIS:CD2	2.47	0.50
1:S:245:PHE:CZ	1:S:247:PRO:HG3	2.47	0.50
1:W:135:ARG:NH2	1:W:523:LEU:O	2.44	0.50
1:X:431:ASP:HB2	1:X:433:HIS:CD2	2.47	0.50
1:Z:145:THR:OG1	1:Z:514:THR:OG1	2.27	0.50
1:a:245:PHE:CZ	1:a:247:PRO:HG3	2.47	0.50
1:a:283:SER:H	1:a:286:HIS:CD2	2.30	0.50
1:c:283:SER:H	1:c:286:HIS:CD2	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:431:ASP:HB2	1:c:433:HIS:CD2	2.47	0.50
1:f:121:TRP:CE3	1:f:517:LEU:HG	2.47	0.50
1:f:490:ASN:O	1:f:505:ILE:N	2.37	0.50
1:h:530:ASN:ND2	1:k:547:LEU:HD21	2.27	0.50
1:i:283:SER:H	1:i:286:HIS:CD2	2.30	0.50
1:k:245:PHE:CZ	1:k:247:PRO:HG3	2.47	0.50
1:l:431:ASP:HB2	1:l:433:HIS:CD2	2.47	0.50
1:o:431:ASP:HB2	1:o:433:HIS:CD2	2.47	0.50
1:o:530:ASN:ND2	1:6:547:LEU:HD21	2.27	0.50
1:q:121:TRP:CE3	1:q:517:LEU:HG	2.47	0.50
1:q:194:LEU:HD13	1:s:311:GLY:HA2	1.94	0.50
1:s:121:TRP:CE3	1:s:517:LEU:HG	2.47	0.50
1:s:339:TRP:HA	1:s:339:TRP:HE3	1.76	0.50
1:s:431:ASP:HB2	1:s:433:HIS:CD2	2.47	0.50
1:u:283:SER:H	1:u:286:HIS:CD2	2.30	0.50
1:w:283:SER:H	1:w:286:HIS:CD2	2.30	0.50
1:w:314:TRP:CZ2	1:w:327:VAL:HG23	2.46	0.50
1:z:131:THR:O	1:z:524:ARG:NH1	2.45	0.50
1:z:135:ARG:NH2	1:z:523:LEU:O	2.44	0.50
1:2:283:SER:H	1:2:286:HIS:CD2	2.30	0.50
1:4:245:PHE:CZ	1:4:247:PRO:HG3	2.47	0.50
1:4:283:SER:H	1:4:286:HIS:CD2	2.30	0.50
1:6:135:ARG:NH2	1:6:523:LEU:O	2.44	0.50
1:7:317:ARG:HD2	1:7:417:LEU:CD1	2.41	0.50
1:A:530:ASN:ND2	1:F:547:LEU:HD21	2.27	0.49
1:B:121:TRP:CE3	1:B:517:LEU:HG	2.47	0.49
1:C:431:ASP:HB2	1:C:433:HIS:CD2	2.47	0.49
1:E:283:SER:H	1:E:286:HIS:CD2	2.30	0.49
1:J:280:HIS:HD2	1:J:443:ASP:OD2	1.94	0.49
1:K:121:TRP:CE3	1:K:517:LEU:HG	2.47	0.49
1:L:283:SER:H	1:L:286:HIS:CD2	2.30	0.49
1:M:131:THR:O	1:M:524:ARG:NH1	2.45	0.49
1:N:431:ASP:HB2	1:N:433:HIS:CD2	2.47	0.49
1:O:121:TRP:CE3	1:O:517:LEU:HG	2.47	0.49
1:P:283:SER:H	1:P:286:HIS:CD2	2.30	0.49
1:P:490:ASN:O	1:P:505:ILE:N	2.37	0.49
1:R:75:TYR:OH	1:R:249:GLU:OE1	2.22	0.49
1:R:121:TRP:CE3	1:R:517:LEU:HG	2.47	0.49
1:R:280:HIS:HD2	1:R:443:ASP:OD2	1.94	0.49
1:R:311:GLY:HA2	1:S:194:LEU:HD13	1.94	0.49
1:U:339:TRP:HA	1:U:339:TRP:HE3	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:131:THR:O	1:V:524:ARG:NH1	2.45	0.49
1:V:194:LEU:HD13	1:X:311:GLY:HA2	1.94	0.49
1:W:547:LEU:HD21	1:X:530:ASN:ND2	2.27	0.49
1:b:530:ASN:ND2	1:c:547:LEU:HD21	2.27	0.49
1:c:317:ARG:HD2	1:c:417:LEU:CD1	2.41	0.49
1:d:421:VAL:CG1	1:l:95:ARG:HG3	2.42	0.49
1:e:283:SER:H	1:e:286:HIS:CD2	2.30	0.49
1:e:431:ASP:HB2	1:e:433:HIS:CD2	2.47	0.49
1:g:431:ASP:HB2	1:g:433:HIS:CD2	2.47	0.49
1:h:121:TRP:CE3	1:h:517:LEU:HG	2.47	0.49
1:h:131:THR:O	1:h:524:ARG:NH1	2.45	0.49
1:i:431:ASP:HB2	1:i:433:HIS:CD2	2.47	0.49
1:j:530:ASN:ND2	1:w:547:LEU:HD21	2.27	0.49
1:k:283:SER:H	1:k:286:HIS:CD2	2.30	0.49
1:l:121:TRP:CE3	1:l:517:LEU:HG	2.47	0.49
1:p:75:TYR:OH	1:p:249:GLU:OE1	2.22	0.49
1:p:131:THR:O	1:p:524:ARG:NH1	2.45	0.49
1:q:311:GLY:HA2	1:r:194:LEU:HD13	1.94	0.49
1:t:135:ARG:NH2	1:t:523:LEU:O	2.44	0.49
1:t:280:HIS:HD2	1:t:443:ASP:OD2	1.94	0.49
1:u:314:TRP:CZ2	1:u:327:VAL:HG23	2.46	0.49
1:v:121:TRP:CE3	1:v:517:LEU:HG	2.47	0.49
1:v:317:ARG:HD2	1:v:417:LEU:CD1	2.41	0.49
1:v:530:ASN:ND2	1:y:547:LEU:HD21	2.27	0.49
1:z:283:SER:H	1:z:286:HIS:CD2	2.30	0.49
1:1:156:LYS:HE3	1:1:165:THR:HG22	1.94	0.49
1:2:280:HIS:HD2	1:2:443:ASP:OD2	1.94	0.49
1:3:283:SER:H	1:3:286:HIS:CD2	2.30	0.49
1:4:131:THR:O	1:4:524:ARG:NH1	2.45	0.49
1:4:317:ARG:HD2	1:4:417:LEU:CD1	2.41	0.49
1:A:317:ARG:HD2	1:A:417:LEU:CD1	2.41	0.49
1:B:156:LYS:HE3	1:B:165:THR:HG22	1.94	0.49
1:D:235:LYS:HZ1	1:P:363:THR:H	1.59	0.49
1:E:421:VAL:CG1	1:Q:95:ARG:HG3	2.42	0.49
1:G:421:VAL:CG1	1:I:95:ARG:HG3	2.42	0.49
1:I:131:THR:O	1:I:524:ARG:NH1	2.45	0.49
1:I:314:TRP:CZ2	1:I:327:VAL:HG23	2.46	0.49
1:I:431:ASP:HB2	1:I:433:HIS:CD2	2.47	0.49
1:K:194:LEU:HD13	1:8:311:GLY:HA2	1.94	0.49
1:M:121:TRP:CE3	1:M:517:LEU:HG	2.47	0.49
1:M:317:ARG:HD2	1:M:417:LEU:CD1	2.41	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:121:TRP:CE3	1:N:517:LEU:HG	2.47	0.49
1:N:131:THR:O	1:N:524:ARG:NH1	2.45	0.49
1:Q:131:THR:O	1:Q:524:ARG:NH1	2.45	0.49
1:Q:490:ASN:O	1:Q:505:ILE:N	2.37	0.49
1:S:311:GLY:HA2	1:U:194:LEU:HD13	1.94	0.49
1:U:431:ASP:HB2	1:U:433:HIS:CD2	2.47	0.49
1:W:131:THR:O	1:W:524:ARG:NH1	2.45	0.49
1:W:283:SER:H	1:W:286:HIS:CD2	2.30	0.49
1:X:355:PRO:HA	1:X:372:GLY:O	2.10	0.49
1:Y:431:ASP:HB2	1:Y:433:HIS:CD2	2.47	0.49
1:a:121:TRP:CE3	1:a:517:LEU:HG	2.47	0.49
1:a:135:ARG:NH2	1:a:523:LEU:O	2.44	0.49
1:a:310:ASN:HB2	1:8:378:ILE:O	2.13	0.49
1:a:311:GLY:HA2	1:8:194:LEU:HD13	1.94	0.49
1:e:317:ARG:HD2	1:e:417:LEU:CD1	2.41	0.49
1:e:530:ASN:ND2	1:f:547:LEU:HD21	2.27	0.49
1:f:194:LEU:HD13	1:g:311:GLY:HA2	1.95	0.49
1:f:431:ASP:HB2	1:f:433:HIS:CD2	2.47	0.49
1:h:317:ARG:HD2	1:h:417:LEU:CD1	2.41	0.49
1:i:121:TRP:CE3	1:i:517:LEU:HG	2.47	0.49
1:i:131:THR:O	1:i:524:ARG:NH1	2.45	0.49
1:o:311:GLY:HA2	1:p:194:LEU:HD13	1.94	0.49
1:t:121:TRP:CE3	1:t:517:LEU:HG	2.47	0.49
1:t:194:LEU:HD13	1:v:311:GLY:HA2	1.93	0.49
1:t:311:GLY:HA2	1:u:194:LEU:HD13	1.94	0.49
1:u:245:PHE:CZ	1:u:247:PRO:HG3	2.47	0.49
1:u:317:ARG:HD2	1:u:417:LEU:CD1	2.41	0.49
1:w:363:THR:H	1:x:235:LYS:HZ1	1.61	0.49
1:x:131:THR:O	1:x:524:ARG:NH1	2.45	0.49
1:x:490:ASN:O	1:x:505:ILE:N	2.37	0.49
1:1:131:THR:O	1:1:524:ARG:NH1	2.45	0.49
1:3:121:TRP:CE3	1:3:517:LEU:HG	2.47	0.49
1:4:121:TRP:CE3	1:4:517:LEU:HG	2.47	0.49
1:6:131:THR:O	1:6:524:ARG:NH1	2.45	0.49
1:7:431:ASP:HB2	1:7:433:HIS:CD2	2.47	0.49
1:7:547:LEU:HD21	1:8:530:ASN:ND2	2.27	0.49
1:A:311:GLY:HA2	1:G:194:LEU:HD13	1.94	0.49
1:A:431:ASP:HB2	1:A:433:HIS:CD2	2.47	0.49
1:B:131:THR:O	1:B:524:ARG:NH1	2.45	0.49
1:D:121:TRP:CE3	1:D:517:LEU:HG	2.47	0.49
1:D:194:LEU:HD13	1:P:311:GLY:HA2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:283:SER:H	1:D:286:HIS:CD2	2.30	0.49
1:D:547:LEU:HD21	1:M:530:ASN:ND2	2.28	0.49
1:E:121:TRP:CE3	1:E:517:LEU:HG	2.47	0.49
1:E:431:ASP:OD2	1:Q:340:ARG:NH2	2.45	0.49
1:G:317:ARG:HD2	1:G:417:LEU:CD1	2.41	0.49
1:H:280:HIS:HD2	1:H:443:ASP:OD2	1.94	0.49
1:I:121:TRP:CE3	1:I:517:LEU:HG	2.47	0.49
1:I:156:LYS:HE3	1:I:165:THR:HG22	1.94	0.49
1:I:245:PHE:CZ	1:I:247:PRO:HG3	2.47	0.49
1:O:131:THR:O	1:O:524:ARG:NH1	2.45	0.49
1:Q:121:TRP:CE3	1:Q:517:LEU:HG	2.47	0.49
1:Q:135:ARG:NH2	1:Q:523:LEU:O	2.44	0.49
1:Q:468:SER:OG	1:Q:471:ALA:O	2.26	0.49
1:R:340:ARG:NH2	1:U:431:ASP:OD2	2.46	0.49
1:T:283:SER:H	1:T:286:HIS:CD2	2.30	0.49
1:T:431:ASP:OD2	1:d:340:ARG:NH2	2.46	0.49
1:X:95:ARG:HG3	1:e:421:VAL:CG1	2.41	0.49
1:Y:121:TRP:CE3	1:Y:517:LEU:HG	2.47	0.49
1:Y:547:LEU:HD21	1:Z:530:ASN:ND2	2.27	0.49
1:Z:194:LEU:HD13	1:3:311:GLY:HA2	1.94	0.49
1:Z:311:GLY:HA2	1:4:194:LEU:HD13	1.95	0.49
1:Z:378:ILE:O	1:3:310:ASN:HB2	2.13	0.49
1:a:339:TRP:HA	1:a:339:TRP:HE3	1.76	0.49
1:b:431:ASP:HB2	1:b:433:HIS:CD2	2.47	0.49
1:c:421:VAL:CG1	1:o:95:ARG:HG3	2.41	0.49
1:f:340:ARG:NH2	1:g:431:ASP:OD2	2.45	0.49
1:j:156:LYS:HE3	1:j:165:THR:HG22	1.94	0.49
1:j:280:HIS:HD2	1:j:443:ASP:OD2	1.94	0.49
1:j:311:GLY:HA2	1:k:194:LEU:HD13	1.94	0.49
1:k:121:TRP:CE3	1:k:517:LEU:HG	2.47	0.49
1:o:355:PRO:HA	1:o:372:GLY:O	2.11	0.49
1:q:245:PHE:CZ	1:q:247:PRO:HG3	2.47	0.49
1:q:340:ARG:NH2	1:s:431:ASP:OD2	2.46	0.49
1:r:311:GLY:HA2	1:s:194:LEU:HD13	1.94	0.49
1:t:431:ASP:OD2	1:u:340:ARG:NH2	2.45	0.49
1:u:131:THR:O	1:u:524:ARG:NH1	2.45	0.49
1:u:431:ASP:HB2	1:u:433:HIS:CD2	2.47	0.49
1:u:530:ASN:ND2	1:1:547:LEU:HD21	2.27	0.49
1:w:121:TRP:CE3	1:w:517:LEU:HG	2.47	0.49
1:w:431:ASP:OD2	1:x:340:ARG:NH2	2.45	0.49
1:x:121:TRP:CE3	1:x:517:LEU:HG	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:135:ARG:NH2	1:x:523:LEU:O	2.44	0.49
1:1:431:ASP:HB2	1:1:433:HIS:CD2	2.47	0.49
1:3:135:ARG:NH2	1:3:523:LEU:O	2.44	0.49
1:5:280:HIS:HD2	1:5:443:ASP:OD2	1.94	0.49
1:6:283:SER:H	1:6:286:HIS:CD2	2.30	0.49
1:8:131:THR:O	1:8:524:ARG:NH1	2.45	0.49
1:A:131:THR:O	1:A:524:ARG:NH1	2.45	0.49
1:A:421:VAL:CG1	1:G:95:ARG:HG3	2.42	0.49
1:B:431:ASP:HB2	1:B:433:HIS:CD2	2.47	0.49
1:C:156:LYS:HE3	1:C:165:THR:HG22	1.94	0.49
1:D:131:THR:O	1:D:524:ARG:NH1	2.45	0.49
1:D:339:TRP:HA	1:D:339:TRP:HE3	1.76	0.49
1:E:547:LEU:HD21	1:P:530:ASN:ND2	2.27	0.49
1:F:121:TRP:CE3	1:F:517:LEU:HG	2.47	0.49
1:F:131:THR:O	1:F:524:ARG:NH1	2.45	0.49
1:F:156:LYS:HE3	1:F:165:THR:HG22	1.94	0.49
1:G:547:LEU:HD21	1:H:530:ASN:ND2	2.27	0.49
1:J:226:PRO:C	1:J:228:GLN:H	2.21	0.49
1:O:283:SER:H	1:O:286:HIS:CD2	2.30	0.49
1:P:280:HIS:HD2	1:P:443:ASP:OD2	1.94	0.49
1:S:131:THR:O	1:S:524:ARG:NH1	2.45	0.49
1:U:131:THR:O	1:U:524:ARG:NH1	2.45	0.49
1:V:431:ASP:OD2	1:e:340:ARG:NH2	2.46	0.49
1:X:339:TRP:HA	1:X:339:TRP:HE3	1.76	0.49
1:Y:131:THR:O	1:Y:524:ARG:NH1	2.45	0.49
1:Y:245:PHE:CZ	1:Y:247:PRO:HG3	2.47	0.49
1:a:156:LYS:HE3	1:a:165:THR:HG22	1.94	0.49
1:b:490:ASN:O	1:b:505:ILE:N	2.37	0.49
1:c:245:PHE:CZ	1:c:247:PRO:HG3	2.47	0.49
1:c:340:ARG:NH2	1:p:431:ASP:OD2	2.46	0.49
1:e:245:PHE:CZ	1:e:247:PRO:HG3	2.47	0.49
1:e:547:LEU:HD21	1:f:530:ASN:ND2	2.27	0.49
1:f:421:VAL:CG1	1:h:95:ARG:HG3	2.41	0.49
1:g:156:LYS:HE3	1:g:165:THR:HG22	1.94	0.49
1:i:530:ASN:ND2	1:l:547:LEU:HD21	2.27	0.49
1:j:490:ASN:O	1:j:505:ILE:N	2.37	0.49
1:k:131:THR:O	1:k:524:ARG:NH1	2.45	0.49
1:l:131:THR:O	1:l:524:ARG:NH1	2.45	0.49
1:l:283:SER:H	1:l:286:HIS:CD2	2.30	0.49
1:m:283:SER:H	1:m:286:HIS:CD2	2.30	0.49
1:m:431:ASP:OD2	1:n:340:ARG:NH2	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:131:THR:O	1:r:524:ARG:NH1	2.45	0.49
1:t:156:LYS:HE3	1:t:165:THR:HG22	1.94	0.49
1:t:317:ARG:HD2	1:t:417:LEU:CD1	2.41	0.49
1:u:121:TRP:CE3	1:u:517:LEU:HG	2.47	0.49
1:v:131:THR:O	1:v:524:ARG:NH1	2.45	0.49
1:v:431:ASP:HB2	1:v:433:HIS:CD2	2.47	0.49
1:v:468:SER:OG	1:v:471:ALA:O	2.26	0.49
1:y:121:TRP:CE3	1:y:517:LEU:HG	2.47	0.49
1:z:378:ILE:O	1:2:310:ASN:HB2	2.13	0.49
1:z:431:ASP:OD2	1:1:340:ARG:NH2	2.46	0.49
1:1:283:SER:H	1:1:286:HIS:CD2	2.30	0.49
1:2:547:LEU:HD21	1:4:530:ASN:ND2	2.27	0.49
1:3:339:TRP:HA	1:3:339:TRP:HE3	1.76	0.49
1:6:156:LYS:HE3	1:6:165:THR:HG22	1.94	0.49
1:6:363:THR:H	1:7:235:LYS:HZ1	1.58	0.49
1:7:121:TRP:CE3	1:7:517:LEU:HG	2.47	0.49
1:7:245:PHE:CZ	1:7:247:PRO:HG3	2.47	0.49
1:8:317:ARG:HD2	1:8:417:LEU:CD1	2.41	0.49
1:8:339:TRP:HA	1:8:339:TRP:HE3	1.76	0.49
1:8:431:ASP:HB2	1:8:433:HIS:CD2	2.47	0.49
1:A:223:ILE:HD11	1:I:409:PRO:O	2.12	0.49
1:B:283:SER:H	1:B:286:HIS:CD2	2.30	0.49
1:B:311:GLY:HA2	1:J:194:LEU:HD13	1.94	0.49
1:B:340:ARG:NH2	1:L:431:ASP:OD2	2.46	0.49
1:C:245:PHE:CZ	1:C:247:PRO:HG3	2.47	0.49
1:C:441:ALA:HB2	1:b:465:PRO:HG3	1.95	0.49
1:E:131:THR:O	1:E:524:ARG:NH1	2.45	0.49
1:G:121:TRP:CE3	1:G:517:LEU:HG	2.47	0.49
1:G:156:LYS:HE3	1:G:165:THR:HG22	1.94	0.49
1:G:409:PRO:HG3	1:G:432:TYR:CZ	2.48	0.49
1:H:121:TRP:CE3	1:H:517:LEU:HG	2.47	0.49
1:H:310:ASN:HB2	1:W:378:ILE:O	2.13	0.49
1:H:409:PRO:HG3	1:H:432:TYR:CZ	2.48	0.49
1:H:431:ASP:OD2	1:W:340:ARG:NH2	2.46	0.49
1:M:465:PRO:HG3	1:b:441:ALA:HB2	1.95	0.49
1:P:131:THR:O	1:P:524:ARG:NH1	2.45	0.49
1:Q:283:SER:H	1:Q:286:HIS:CD2	2.30	0.49
1:R:245:PHE:CZ	1:R:247:PRO:HG3	2.47	0.49
1:S:156:LYS:HE3	1:S:165:THR:HG22	1.94	0.49
1:W:156:LYS:HE3	1:W:165:THR:HG22	1.94	0.49
1:X:131:THR:O	1:X:524:ARG:NH1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:131:THR:O	1:Z:524:ARG:NH1	2.45	0.49
1:Z:317:ARG:HD2	1:Z:417:LEU:CD1	2.41	0.49
1:Z:339:TRP:HA	1:Z:339:TRP:HE3	1.76	0.49
1:Z:431:ASP:HB2	1:Z:433:HIS:CD2	2.47	0.49
1:g:121:TRP:CE3	1:g:517:LEU:HG	2.47	0.49
1:j:131:THR:O	1:j:524:ARG:NH1	2.45	0.49
1:k:339:TRP:HA	1:k:339:TRP:HE3	1.76	0.49
1:r:156:LYS:HE3	1:r:165:THR:HG22	1.94	0.49
1:t:131:THR:O	1:t:524:ARG:NH1	2.45	0.49
1:t:409:PRO:HG3	1:t:432:TYR:CZ	2.48	0.49
1:t:530:ASN:ND2	1:5:547:LEU:HD21	2.27	0.49
1:u:156:LYS:HE3	1:u:165:THR:HG22	1.94	0.49
1:w:131:THR:O	1:w:524:ARG:NH1	2.45	0.49
1:y:131:THR:O	1:y:524:ARG:NH1	2.45	0.49
1:y:156:LYS:HE3	1:y:165:THR:HG22	1.94	0.49
1:3:156:LYS:HE3	1:3:165:THR:HG22	1.94	0.49
1:5:226:PRO:C	1:5:228:GLN:H	2.21	0.49
1:5:431:ASP:OD2	1:6:340:ARG:NH2	2.46	0.49
1:6:431:ASP:OD2	1:7:340:ARG:NH2	2.46	0.49
1:7:131:THR:O	1:7:524:ARG:NH1	2.45	0.49
1:A:431:ASP:OD2	1:G:340:ARG:NH2	2.46	0.49
1:C:121:TRP:CE3	1:C:517:LEU:HG	2.47	0.49
1:C:131:THR:O	1:C:524:ARG:NH1	2.45	0.49
1:E:409:PRO:HG3	1:E:432:TYR:CZ	2.48	0.49
1:G:131:THR:O	1:G:524:ARG:NH1	2.45	0.49
1:G:245:PHE:CZ	1:G:247:PRO:HG3	2.47	0.49
1:G:311:GLY:HA2	1:I:194:LEU:HD13	1.94	0.49
1:G:441:ALA:HB2	1:I:465:PRO:HG3	1.95	0.49
1:G:530:ASN:ND2	1:H:547:LEU:HD21	2.27	0.49
1:H:226:PRO:C	1:H:228:GLN:H	2.21	0.49
1:H:283:SER:H	1:H:286:HIS:CD2	2.30	0.49
1:J:131:THR:O	1:J:524:ARG:NH1	2.45	0.49
1:J:310:ASN:HB2	1:L:378:ILE:O	2.13	0.49
1:J:441:ALA:HB2	1:L:465:PRO:HG3	1.95	0.49
1:J:547:LEU:HD21	1:K:530:ASN:ND2	2.27	0.49
1:K:95:ARG:HG3	1:8:421:VAL:CG1	2.41	0.49
1:M:340:ARG:NH2	1:b:431:ASP:OD2	2.45	0.49
1:P:156:LYS:HE3	1:P:165:THR:HG22	1.94	0.49
1:P:409:PRO:HG3	1:P:432:TYR:CZ	2.48	0.49
1:R:339:TRP:HA	1:R:339:TRP:HE3	1.76	0.49
1:R:409:PRO:HG3	1:R:432:TYR:CZ	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:121:TRP:CE3	1:S:517:LEU:HG	2.47	0.49
1:V:378:ILE:O	1:X:310:ASN:HB2	2.13	0.49
1:W:431:ASP:OD2	1:Y:340:ARG:NH2	2.46	0.49
1:Z:421:VAL:CG1	1:4:95:ARG:HG3	2.41	0.49
1:b:135:ARG:NH2	1:b:523:LEU:O	2.44	0.49
1:c:194:LEU:HD13	1:p:311:GLY:HA2	1.95	0.49
1:d:131:THR:O	1:d:524:ARG:NH1	2.45	0.49
1:d:409:PRO:HG3	1:d:432:TYR:CZ	2.48	0.49
1:f:311:GLY:HA2	1:h:194:LEU:HD13	1.94	0.49
1:g:131:THR:O	1:g:524:ARG:NH1	2.45	0.49
1:g:245:PHE:CZ	1:g:247:PRO:HG3	2.47	0.49
1:g:339:TRP:HA	1:g:339:TRP:HE3	1.76	0.49
1:h:547:LEU:HD21	1:k:530:ASN:ND2	2.27	0.49
1:k:409:PRO:HG3	1:k:432:TYR:CZ	2.48	0.49
1:m:409:PRO:HG3	1:m:432:TYR:CZ	2.48	0.49
1:n:131:THR:O	1:n:524:ARG:NH1	2.45	0.49
1:n:409:PRO:HG3	1:n:432:TYR:CZ	2.48	0.49
1:o:131:THR:O	1:o:524:ARG:NH1	2.45	0.49
1:o:310:ASN:HB2	1:p:378:ILE:O	2.13	0.49
1:r:121:TRP:CE3	1:r:517:LEU:HG	2.47	0.49
1:s:131:THR:O	1:s:524:ARG:NH1	2.45	0.49
1:t:245:PHE:CZ	1:t:247:PRO:HG3	2.47	0.49
1:t:340:ARG:NH2	1:v:431:ASP:OD2	2.46	0.49
1:t:547:LEU:HD21	1:5:530:ASN:ND2	2.27	0.49
1:u:226:PRO:C	1:u:228:GLN:H	2.21	0.49
1:w:409:PRO:HG3	1:w:432:TYR:CZ	2.48	0.49
1:x:226:PRO:C	1:x:228:GLN:H	2.21	0.49
1:x:409:PRO:O	1:y:223:ILE:HD11	2.12	0.49
1:y:283:SER:H	1:y:286:HIS:CD2	2.30	0.49
1:z:465:PRO:HG3	1:2:441:ALA:HB2	1.95	0.49
1:2:131:THR:O	1:2:524:ARG:NH1	2.45	0.49
1:2:156:LYS:HE3	1:2:165:THR:HG22	1.94	0.49
1:2:226:PRO:C	1:2:228:GLN:H	2.21	0.49
1:2:409:PRO:HG3	1:2:432:TYR:CZ	2.48	0.49
1:5:310:ASN:HB2	1:6:378:ILE:O	2.13	0.49
1:8:226:PRO:C	1:8:228:GLN:H	2.21	0.49
1:A:340:ARG:NH2	1:I:431:ASP:OD2	2.44	0.49
1:C:194:LEU:HD13	1:M:311:GLY:HA2	1.93	0.49
1:F:223:ILE:HD11	1:Q:409:PRO:O	2.12	0.49
1:F:226:PRO:C	1:F:228:GLN:H	2.21	0.49
1:F:283:SER:H	1:F:286:HIS:CD2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:131:THR:O	1:H:524:ARG:NH1	2.45	0.49
1:I:226:PRO:C	1:I:228:GLN:H	2.21	0.49
1:J:156:LYS:HE3	1:J:165:THR:HG22	1.94	0.49
1:J:245:PHE:CZ	1:J:247:PRO:HG3	2.47	0.49
1:J:409:PRO:HG3	1:J:432:TYR:CZ	2.48	0.49
1:K:378:ILE:O	1:8:310:ASN:HB2	2.13	0.49
1:L:121:TRP:CE3	1:L:517:LEU:HG	2.47	0.49
1:M:245:PHE:CZ	1:M:247:PRO:HG3	2.47	0.49
1:M:409:PRO:HG3	1:M:432:TYR:CZ	2.48	0.49
1:O:245:PHE:CZ	1:O:247:PRO:HG3	2.47	0.49
1:Q:226:PRO:C	1:Q:228:GLN:H	2.21	0.49
1:Q:409:PRO:HG3	1:Q:432:TYR:CZ	2.48	0.49
1:T:409:PRO:HG3	1:T:432:TYR:CZ	2.48	0.49
1:U:283:SER:H	1:U:286:HIS:CD2	2.30	0.49
1:V:339:TRP:HA	1:V:339:TRP:HE3	1.76	0.49
1:V:409:PRO:HG3	1:V:432:TYR:CZ	2.48	0.49
1:W:245:PHE:CZ	1:W:247:PRO:HG3	2.47	0.49
1:W:530:ASN:ND2	1:X:547:LEU:HD21	2.27	0.49
1:Z:310:ASN:HB2	1:4:378:ILE:O	2.13	0.49
1:b:245:PHE:CZ	1:b:247:PRO:HG3	2.47	0.49
1:c:431:ASP:OD2	1:o:340:ARG:NH2	2.46	0.49
1:f:135:ARG:NH2	1:f:523:LEU:O	2.44	0.49
1:f:245:PHE:CZ	1:f:247:PRO:HG3	2.47	0.49
1:g:409:PRO:HG3	1:g:432:TYR:CZ	2.48	0.49
1:h:409:PRO:HG3	1:h:432:TYR:CZ	2.48	0.49
1:j:409:PRO:HG3	1:j:432:TYR:CZ	2.48	0.49
1:l:245:PHE:CZ	1:l:247:PRO:HG3	2.47	0.49
1:l:339:TRP:HA	1:l:339:TRP:HE3	1.76	0.49
1:m:530:ASN:ND2	1:r:547:LEU:HD21	2.27	0.49
1:o:121:TRP:CE3	1:o:517:LEU:HG	2.47	0.49
1:o:339:TRP:HA	1:o:339:TRP:HE3	1.76	0.49
1:p:409:PRO:HG3	1:p:432:TYR:CZ	2.48	0.49
1:q:409:PRO:HG3	1:q:432:TYR:CZ	2.48	0.49
1:q:530:ASN:ND2	1:x:547:LEU:HD21	2.27	0.49
1:v:156:LYS:HE3	1:v:165:THR:HG22	1.94	0.49
1:w:378:ILE:O	1:y:310:ASN:HB2	2.13	0.49
1:x:409:PRO:HG3	1:x:432:TYR:CZ	2.48	0.49
1:y:409:PRO:HG3	1:y:432:TYR:CZ	2.48	0.49
1:1:431:ASP:OD2	1:2:340:ARG:NH2	2.46	0.49
1:5:121:TRP:CE3	1:5:517:LEU:HG	2.47	0.49
1:A:156:LYS:HE3	1:A:165:THR:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:226:PRO:C	1:A:228:GLN:H	2.21	0.49
1:C:280:HIS:HD2	1:C:443:ASP:OD2	1.94	0.49
1:C:409:PRO:HG3	1:C:432:TYR:CZ	2.48	0.49
1:D:409:PRO:HG3	1:D:432:TYR:CZ	2.48	0.49
1:E:156:LYS:HE3	1:E:165:THR:HG22	1.94	0.49
1:E:245:PHE:CZ	1:E:247:PRO:HG3	2.47	0.49
1:E:378:ILE:O	1:F:310:ASN:HB2	2.13	0.49
1:F:73:GLU:OE1	1:F:486:LYS:NZ	2.41	0.49
1:F:409:PRO:HG3	1:F:432:TYR:CZ	2.48	0.49
1:K:311:GLY:HA2	1:a:194:LEU:HD13	1.94	0.49
1:N:339:TRP:HA	1:N:339:TRP:HE3	1.76	0.49
1:N:530:ASN:ND2	1:O:547:LEU:HD21	2.27	0.49
1:O:339:TRP:HA	1:O:339:TRP:HE3	1.76	0.49
1:Q:156:LYS:HE3	1:Q:165:THR:HG22	1.94	0.49
1:Q:547:LEU:HD21	1:R:530:ASN:ND2	2.27	0.49
1:R:378:ILE:O	1:U:310:ASN:HB2	2.13	0.49
1:S:431:ASP:OD2	1:U:340:ARG:NH2	2.46	0.49
1:S:441:ALA:HB2	1:U:465:PRO:HG3	1.95	0.49
1:S:530:ASN:ND2	1:T:547:LEU:HD21	2.28	0.49
1:T:156:LYS:HE3	1:T:165:THR:HG22	1.94	0.49
1:V:311:GLY:HA2	1:e:194:LEU:HD13	1.95	0.49
1:W:441:ALA:HB2	1:Y:465:PRO:HG3	1.95	0.49
1:X:121:TRP:CE3	1:X:517:LEU:HG	2.47	0.49
1:X:340:ARG:NH2	1:e:431:ASP:OD2	2.46	0.49
1:X:409:PRO:HG3	1:X:432:TYR:CZ	2.48	0.49
1:Z:226:PRO:C	1:Z:228:GLN:H	2.21	0.49
1:Z:468:SER:OG	1:Z:471:ALA:O	2.26	0.49
1:a:226:PRO:C	1:a:228:GLN:H	2.21	0.49
1:d:431:ASP:OD2	1:l:340:ARG:NH2	2.46	0.49
1:f:441:ALA:HB2	1:h:465:PRO:HG3	1.95	0.49
1:g:378:ILE:O	1:h:310:ASN:HB2	2.13	0.49
1:h:245:PHE:CZ	1:h:247:PRO:HG3	2.47	0.49
1:j:121:TRP:CE3	1:j:517:LEU:HG	2.47	0.49
1:m:121:TRP:CE3	1:m:517:LEU:HG	2.47	0.49
1:m:131:THR:O	1:m:524:ARG:NH1	2.45	0.49
1:m:547:LEU:HD21	1:r:530:ASN:ND2	2.28	0.49
1:o:283:SER:H	1:o:286:HIS:CD2	2.30	0.49
1:o:409:PRO:HG3	1:o:432:TYR:CZ	2.48	0.49
1:o:431:ASP:OD2	1:p:340:ARG:NH2	2.46	0.49
1:q:339:TRP:HA	1:q:339:TRP:HE3	1.76	0.49
1:r:441:ALA:HB2	1:s:465:PRO:HG3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:283:SER:H	1:s:286:HIS:CD2	2.30	0.49
1:v:226:PRO:C	1:v:228:GLN:H	2.21	0.49
1:x:283:SER:H	1:x:286:HIS:CD2	2.30	0.49
1:x:468:SER:OG	1:x:471:ALA:O	2.26	0.49
1:z:121:TRP:CE3	1:z:517:LEU:HG	2.47	0.49
1:1:311:GLY:HA2	1:2:194:LEU:HD13	1.94	0.49
1:3:226:PRO:C	1:3:228:GLN:H	2.21	0.49
1:5:283:SER:H	1:5:286:HIS:CD2	2.30	0.49
1:5:409:PRO:HG3	1:5:432:TYR:CZ	2.48	0.49
1:6:245:PHE:CZ	1:6:247:PRO:HG3	2.47	0.49
1:6:441:ALA:HB2	1:7:465:PRO:HG3	1.95	0.49
1:B:431:ASP:OD2	1:J:340:ARG:NH2	2.46	0.49
1:D:441:ALA:HB2	1:N:465:PRO:HG3	1.95	0.49
1:F:465:PRO:HG3	1:Q:441:ALA:HB2	1.94	0.49
1:H:245:PHE:CZ	1:H:247:PRO:HG3	2.47	0.49
1:J:121:TRP:CE3	1:J:517:LEU:HG	2.47	0.49
1:M:156:LYS:HE3	1:M:165:THR:HG22	1.94	0.49
1:M:378:ILE:HD11	1:b:318:SER:HA	1.95	0.49
1:N:431:ASP:OD2	1:P:340:ARG:NH2	2.46	0.49
1:O:311:GLY:HA2	1:m:194:LEU:HD13	1.94	0.49
1:P:121:TRP:CE3	1:P:517:LEU:HG	2.47	0.49
1:T:121:TRP:CE3	1:T:517:LEU:HG	2.47	0.49
1:T:131:THR:O	1:T:524:ARG:NH1	2.45	0.49
1:T:378:ILE:O	1:l:310:ASN:HB2	2.13	0.49
1:V:340:ARG:NH2	1:X:431:ASP:OD2	2.46	0.49
1:X:283:SER:H	1:X:286:HIS:CD2	2.30	0.49
1:Z:409:PRO:HG3	1:Z:432:TYR:CZ	2.48	0.49
1:a:409:PRO:HG3	1:a:432:TYR:CZ	2.48	0.49
1:c:131:THR:O	1:c:524:ARG:NH1	2.45	0.49
1:c:310:ASN:HB2	1:o:378:ILE:O	2.13	0.49
1:d:121:TRP:CE3	1:d:517:LEU:HG	2.47	0.49
1:e:131:THR:O	1:e:524:ARG:NH1	2.45	0.49
1:g:530:ASN:ND2	1:z:547:LEU:HD21	2.27	0.49
1:i:339:TRP:HA	1:i:339:TRP:HE3	1.76	0.49
1:i:431:ASP:OD2	1:j:340:ARG:NH2	2.46	0.49
1:k:156:LYS:HE3	1:k:165:THR:HG22	1.94	0.49
1:m:156:LYS:HE3	1:m:165:THR:HG22	1.94	0.49
1:m:245:PHE:CZ	1:m:247:PRO:HG3	2.47	0.49
1:o:547:LEU:HD21	1:6:530:ASN:ND2	2.27	0.49
1:q:131:THR:O	1:q:524:ARG:NH1	2.45	0.49
1:q:378:ILE:O	1:s:310:ASN:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:431:ASP:OD2	1:s:340:ARG:NH2	2.46	0.49
1:w:156:LYS:HE3	1:w:165:THR:HG22	1.94	0.49
1:w:245:PHE:CZ	1:w:247:PRO:HG3	2.47	0.49
1:x:441:ALA:HB2	1:y:465:PRO:HG3	1.94	0.49
1:y:73:GLU:OE1	1:y:486:LYS:NZ	2.41	0.49
1:y:226:PRO:C	1:y:228:GLN:H	2.21	0.49
1:2:245:PHE:CZ	1:2:247:PRO:HG3	2.47	0.49
1:3:194:LEU:HD13	1:4:311:GLY:HA2	1.95	0.49
1:5:131:THR:O	1:5:524:ARG:NH1	2.45	0.49
1:5:311:GLY:HA2	1:6:194:LEU:HD13	1.94	0.49
1:8:409:PRO:HG3	1:8:432:TYR:CZ	2.48	0.49
1:D:156:LYS:HE3	1:D:165:THR:HG22	1.94	0.49
1:D:311:GLY:HA2	1:N:194:LEU:HD13	1.94	0.49
1:D:378:ILE:O	1:P:310:ASN:HB2	2.13	0.49
1:G:283:SER:H	1:G:286:HIS:CD2	2.30	0.49
1:H:311:GLY:HA2	1:W:194:LEU:HD13	1.94	0.49
1:I:359:ALA:HB2	1:I:399:LEU:HD22	1.95	0.49
1:N:156:LYS:HE3	1:N:165:THR:HG22	1.94	0.49
1:N:226:PRO:C	1:N:228:GLN:H	2.21	0.49
1:O:310:ASN:HB2	1:m:378:ILE:O	2.13	0.49
1:O:340:ARG:NH2	1:n:431:ASP:OD2	2.46	0.49
1:O:363:THR:H	1:m:235:LYS:HZ1	1.59	0.49
1:R:131:THR:O	1:R:524:ARG:NH1	2.45	0.49
1:R:310:ASN:HB2	1:S:378:ILE:O	2.13	0.49
1:T:235:LYS:HZ1	1:l:363:THR:H	1.60	0.49
1:T:245:PHE:CZ	1:T:247:PRO:HG3	2.47	0.49
1:T:465:PRO:HG3	1:l:441:ALA:HB2	1.95	0.49
1:U:156:LYS:HE3	1:U:165:THR:HG22	1.94	0.49
1:W:226:PRO:C	1:W:228:GLN:H	2.21	0.49
1:W:409:PRO:HG3	1:W:432:TYR:CZ	2.48	0.49
1:X:194:LEU:HD13	1:e:311:GLY:HA2	1.94	0.49
1:X:378:ILE:O	1:e:310:ASN:HB2	2.13	0.49
1:X:465:PRO:HG3	1:e:441:ALA:HB2	1.95	0.49
1:a:441:ALA:HB2	1:8:465:PRO:HG3	1.95	0.49
1:c:465:PRO:HG3	1:p:441:ALA:HB2	1.95	0.49
1:g:280:HIS:HD2	1:g:443:ASP:OD2	1.94	0.49
1:g:340:ARG:NH2	1:h:431:ASP:OD2	2.46	0.49
1:h:156:LYS:HE3	1:h:165:THR:HG22	1.94	0.49
1:i:156:LYS:HE3	1:i:165:THR:HG22	1.94	0.49
1:i:340:ARG:NH2	1:k:431:ASP:OD2	2.46	0.49
1:i:378:ILE:O	1:k:310:ASN:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:547:LEU:HD21	1:l:530:ASN:ND2	2.27	0.49
1:k:226:PRO:C	1:k:228:GLN:H	2.21	0.49
1:n:121:TRP:CE3	1:n:517:LEU:HG	2.47	0.49
1:t:283:SER:H	1:t:286:HIS:CD2	2.30	0.49
1:t:378:ILE:HD11	1:v:318:SER:HA	1.95	0.49
1:v:409:PRO:HG3	1:v:432:TYR:CZ	2.48	0.49
1:x:156:LYS:HE3	1:x:165:THR:HG22	1.94	0.49
1:3:409:PRO:HG3	1:3:432:TYR:CZ	2.48	0.49
1:6:121:TRP:CE3	1:6:517:LEU:HG	2.47	0.49
1:6:226:PRO:C	1:6:228:GLN:H	2.21	0.49
1:6:409:PRO:HG3	1:6:432:TYR:CZ	2.48	0.49
1:A:409:PRO:HG3	1:A:432:TYR:CZ	2.48	0.48
1:A:468:SER:OG	1:A:471:ALA:O	2.26	0.48
1:B:314:TRP:CH2	1:B:327:VAL:HG23	2.48	0.48
1:D:310:ASN:HB2	1:N:378:ILE:O	2.13	0.48
1:D:431:ASP:OD2	1:N:340:ARG:NH2	2.46	0.48
1:D:465:PRO:HG3	1:P:441:ALA:HB2	1.95	0.48
1:E:340:ARG:NH2	1:F:431:ASP:OD2	2.46	0.48
1:H:75:TYR:OH	1:H:249:GLU:OE1	2.22	0.48
1:K:156:LYS:HE3	1:K:165:THR:HG22	1.94	0.48
1:K:409:PRO:HG3	1:K:432:TYR:CZ	2.48	0.48
1:K:441:ALA:HB2	1:a:465:PRO:HG3	1.95	0.48
1:M:95:ARG:HG3	1:b:421:VAL:CG1	2.42	0.48
1:O:226:PRO:C	1:O:228:GLN:H	2.21	0.48
1:Q:530:ASN:ND2	1:R:547:LEU:HD21	2.28	0.48
1:S:547:LEU:HD21	1:T:530:ASN:ND2	2.28	0.48
1:T:194:LEU:HD13	1:l:311:GLY:HA2	1.95	0.48
1:U:226:PRO:C	1:U:228:GLN:H	2.21	0.48
1:U:547:LEU:HD21	1:V:530:ASN:ND2	2.27	0.48
1:V:441:ALA:HB2	1:e:465:PRO:HG3	1.95	0.48
1:V:465:PRO:HG3	1:X:441:ALA:HB2	1.95	0.48
1:W:121:TRP:CE3	1:W:517:LEU:HG	2.47	0.48
1:W:310:ASN:HB2	1:Y:378:ILE:O	2.13	0.48
1:W:318:SER:HA	1:Y:378:ILE:HD11	1.95	0.48
1:X:156:LYS:HE3	1:X:165:THR:HG22	1.94	0.48
1:Y:409:PRO:HG3	1:Y:432:TYR:CZ	2.48	0.48
1:Y:468:SER:OG	1:Y:471:ALA:O	2.26	0.48
1:Y:530:ASN:ND2	1:Z:547:LEU:HD21	2.27	0.48
1:Z:154:VAL:HG22	1:Z:167:TYR:CE1	2.48	0.48
1:Z:465:PRO:HG3	1:3:441:ALA:HB2	1.95	0.48
1:b:409:PRO:HG3	1:b:432:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:311:GLY:HA2	1:o:194:LEU:HD13	1.94	0.48
1:e:226:PRO:C	1:e:228:GLN:H	2.21	0.48
1:i:226:PRO:C	1:i:228:GLN:H	2.21	0.48
1:i:465:PRO:HG3	1:k:441:ALA:HB2	1.95	0.48
1:j:310:ASN:HB2	1:k:378:ILE:O	2.13	0.48
1:j:441:ALA:HB2	1:k:465:PRO:HG3	1.95	0.48
1:m:310:ASN:HB2	1:n:378:ILE:O	2.13	0.48
1:o:156:LYS:HE3	1:o:165:THR:HG22	1.94	0.48
1:o:441:ALA:HB2	1:p:465:PRO:HG3	1.95	0.48
1:p:547:LEU:HD21	1:s:530:ASN:ND2	2.28	0.48
1:q:310:ASN:HB2	1:r:378:ILE:O	2.13	0.48
1:s:156:LYS:HE3	1:s:165:THR:HG22	1.94	0.48
1:t:359:ALA:HB2	1:t:399:LEU:HD22	1.95	0.48
1:u:359:ALA:HB2	1:u:399:LEU:HD22	1.95	0.48
1:2:121:TRP:CE3	1:2:517:LEU:HG	2.47	0.48
1:4:409:PRO:HG3	1:4:432:TYR:CZ	2.48	0.48
1:5:245:PHE:CZ	1:5:247:PRO:HG3	2.47	0.48
1:6:318:SER:HA	1:7:378:ILE:HD11	1.95	0.48
1:7:530:ASN:ND2	1:8:547:LEU:HD21	2.27	0.48
1:8:468:SER:OG	1:8:471:ALA:O	2.26	0.48
1:A:318:SER:HA	1:G:378:ILE:HD11	1.95	0.48
1:A:359:ALA:HB2	1:A:399:LEU:HD22	1.96	0.48
1:A:378:ILE:O	1:I:310:ASN:HB2	2.12	0.48
1:B:226:PRO:C	1:B:228:GLN:H	2.21	0.48
1:G:468:SER:OG	1:G:471:ALA:O	2.26	0.48
1:J:314:TRP:CH2	1:J:327:VAL:HG23	2.48	0.48
1:L:156:LYS:HE3	1:L:165:THR:HG22	1.94	0.48
1:M:314:TRP:CH2	1:M:327:VAL:HG23	2.48	0.48
1:N:310:ASN:HB2	1:P:378:ILE:O	2.13	0.48
1:O:441:ALA:HB2	1:m:465:PRO:HG3	1.95	0.48
1:R:431:ASP:OD2	1:S:340:ARG:NH2	2.46	0.48
1:U:314:TRP:CH2	1:U:327:VAL:HG23	2.48	0.48
1:U:530:ASN:ND2	1:V:547:LEU:HD21	2.28	0.48
1:V:121:TRP:CE3	1:V:517:LEU:HG	2.47	0.48
1:X:226:PRO:C	1:X:228:GLN:H	2.21	0.48
1:Z:314:TRP:CH2	1:Z:327:VAL:HG23	2.49	0.48
1:Z:340:ARG:NH2	1:3:431:ASP:OD2	2.46	0.48
1:a:314:TRP:CH2	1:a:327:VAL:HG23	2.49	0.48
1:a:431:ASP:OD2	1:8:340:ARG:NH2	2.46	0.48
1:b:131:THR:O	1:b:524:ARG:NH1	2.45	0.48
1:c:226:PRO:C	1:c:228:GLN:H	2.21	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:283:SER:H	1:c:286:HIS:HD2	1.62	0.48
1:c:441:ALA:HB2	1:o:465:PRO:HG3	1.95	0.48
1:f:131:THR:O	1:f:524:ARG:NH1	2.45	0.48
1:f:156:LYS:HE3	1:f:165:THR:HG22	1.94	0.48
1:f:409:PRO:HG3	1:f:432:TYR:CZ	2.48	0.48
1:h:314:TRP:CH2	1:h:327:VAL:HG23	2.48	0.48
1:m:226:PRO:C	1:m:228:GLN:H	2.21	0.48
1:q:226:PRO:C	1:q:228:GLN:H	2.21	0.48
1:q:547:LEU:HD21	1:x:530:ASN:ND2	2.28	0.48
1:r:314:TRP:CH2	1:r:327:VAL:HG23	2.48	0.48
1:r:359:ALA:HB2	1:r:399:LEU:HD22	1.95	0.48
1:r:490:ASN:O	1:r:505:ILE:N	2.37	0.48
1:s:314:TRP:CH2	1:s:327:VAL:HG23	2.48	0.48
1:v:359:ALA:HB2	1:v:399:LEU:HD22	1.96	0.48
1:w:340:ARG:NH2	1:y:431:ASP:OD2	2.46	0.48
1:y:245:PHE:CZ	1:y:247:PRO:HG3	2.47	0.48
1:z:156:LYS:HE3	1:z:165:THR:HG22	1.94	0.48
1:1:226:PRO:C	1:1:228:GLN:H	2.21	0.48
1:1:314:TRP:CH2	1:1:327:VAL:HG23	2.49	0.48
1:2:314:TRP:CH2	1:2:327:VAL:HG23	2.48	0.48
1:3:314:TRP:CH2	1:3:327:VAL:HG23	2.49	0.48
1:3:340:ARG:NH2	1:4:431:ASP:OD2	2.46	0.48
1:3:465:PRO:HG3	1:4:441:ALA:HB2	1.95	0.48
1:6:310:ASN:HB2	1:7:378:ILE:O	2.13	0.48
1:8:245:PHE:CZ	1:8:247:PRO:HG3	2.47	0.48
1:8:314:TRP:CH2	1:8:327:VAL:HG23	2.49	0.48
1:A:465:PRO:HG3	1:I:441:ALA:HB2	1.94	0.48
1:B:530:ASN:ND2	1:I:547:LEU:HD21	2.27	0.48
1:D:226:PRO:C	1:D:228:GLN:H	2.21	0.48
1:D:340:ARG:NH2	1:P:431:ASP:OD2	2.46	0.48
1:D:530:ASN:ND2	1:M:547:LEU:HD21	2.28	0.48
1:E:465:PRO:HG3	1:F:441:ALA:HB2	1.95	0.48
1:F:245:PHE:CZ	1:F:247:PRO:HG3	2.47	0.48
1:G:359:ALA:HB2	1:G:399:LEU:HD22	1.96	0.48
1:J:431:ASP:OD2	1:L:340:ARG:NH2	2.46	0.48
1:N:359:ALA:HB2	1:N:399:LEU:HD22	1.96	0.48
1:N:409:PRO:HG3	1:N:432:TYR:CZ	2.48	0.48
1:S:314:TRP:CH2	1:S:327:VAL:HG23	2.49	0.48
1:S:359:ALA:HB2	1:S:399:LEU:HD22	1.95	0.48
1:S:409:PRO:HG3	1:S:432:TYR:CZ	2.48	0.48
1:Z:245:PHE:CZ	1:Z:247:PRO:HG3	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:156:LYS:HE3	1:b:165:THR:HG22	1.94	0.48
1:c:468:SER:OG	1:c:471:ALA:O	2.26	0.48
1:e:121:TRP:CE3	1:e:517:LEU:HG	2.47	0.48
1:e:283:SER:H	1:e:286:HIS:HD2	1.62	0.48
1:f:378:ILE:O	1:g:310:ASN:HB2	2.14	0.48
1:g:465:PRO:HG3	1:h:441:ALA:HB2	1.95	0.48
1:h:359:ALA:HB2	1:h:399:LEU:HD22	1.95	0.48
1:h:468:SER:OG	1:h:471:ALA:O	2.26	0.48
1:i:194:LEU:HD13	1:k:311:GLY:HA2	1.94	0.48
1:i:359:ALA:HB2	1:i:399:LEU:HD22	1.96	0.48
1:i:409:PRO:HG3	1:i:432:TYR:CZ	2.48	0.48
1:j:314:TRP:CH2	1:j:327:VAL:HG23	2.48	0.48
1:n:359:ALA:HB2	1:n:399:LEU:HD22	1.95	0.48
1:p:121:TRP:CE3	1:p:517:LEU:HG	2.47	0.48
1:p:530:ASN:ND2	1:s:547:LEU:HD21	2.27	0.48
1:q:431:ASP:OD2	1:r:340:ARG:NH2	2.46	0.48
1:s:226:PRO:C	1:s:228:GLN:H	2.21	0.48
1:t:468:SER:OG	1:t:471:ALA:O	2.26	0.48
1:4:156:LYS:HE3	1:4:165:THR:HG22	1.94	0.48
1:5:340:ARG:NH2	1:7:431:ASP:OD2	2.46	0.48
1:7:409:PRO:HG3	1:7:432:TYR:CZ	2.48	0.48
1:8:156:LYS:HE3	1:8:165:THR:HG22	1.94	0.48
1:B:547:LEU:HD21	1:I:530:ASN:ND2	2.28	0.48
1:C:339:TRP:HA	1:C:339:TRP:HE3	1.76	0.48
1:E:441:ALA:HB2	1:Q:465:PRO:HG3	1.95	0.48
1:F:223:ILE:HD13	1:Q:430:GLN:HE21	1.78	0.48
1:J:311:GLY:HA2	1:L:194:LEU:HD13	1.94	0.48
1:K:431:ASP:OD2	1:a:340:ARG:NH2	2.46	0.48
1:N:547:LEU:HD21	1:O:530:ASN:ND2	2.27	0.48
1:O:409:PRO:HG3	1:O:432:TYR:CE1	2.49	0.48
1:P:314:TRP:CH2	1:P:327:VAL:HG23	2.49	0.48
1:P:359:ALA:HB2	1:P:399:LEU:HD22	1.96	0.48
1:P:409:PRO:HG3	1:P:432:TYR:CE1	2.49	0.48
1:R:226:PRO:C	1:R:228:GLN:H	2.21	0.48
1:T:310:ASN:HB2	1:d:378:ILE:O	2.13	0.48
1:U:409:PRO:HG3	1:U:432:TYR:CZ	2.48	0.48
1:U:490:ASN:O	1:U:505:ILE:N	2.37	0.48
1:V:359:ALA:HB2	1:V:399:LEU:HD22	1.96	0.48
1:Y:283:SER:H	1:Y:286:HIS:HD2	1.62	0.48
1:Z:156:LYS:HE3	1:Z:165:THR:HG22	1.94	0.48
1:Z:431:ASP:OD2	1:4:340:ARG:NH2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:121:TRP:CE3	1:c:517:LEU:HG	2.47	0.48
1:d:314:TRP:CH2	1:d:327:VAL:HG23	2.49	0.48
1:d:359:ALA:HB2	1:d:399:LEU:HD22	1.96	0.48
1:e:314:TRP:CH2	1:e:327:VAL:HG23	2.49	0.48
1:e:409:PRO:HG3	1:e:432:TYR:CE1	2.49	0.48
1:e:409:PRO:HG3	1:e:432:TYR:CZ	2.48	0.48
1:f:318:SER:HA	1:h:378:ILE:HD11	1.95	0.48
1:f:431:ASP:OD2	1:h:340:ARG:NH2	2.46	0.48
1:g:283:SER:H	1:g:286:HIS:HD2	1.62	0.48
1:g:314:TRP:CH2	1:g:327:VAL:HG23	2.49	0.48
1:i:310:ASN:HB2	1:j:378:ILE:O	2.13	0.48
1:j:226:PRO:C	1:j:228:GLN:H	2.21	0.48
1:j:431:ASP:OD2	1:k:340:ARG:NH2	2.46	0.48
1:l:226:PRO:C	1:l:228:GLN:H	2.21	0.48
1:l:409:PRO:HG3	1:l:432:TYR:CE1	2.49	0.48
1:p:359:ALA:HB2	1:p:399:LEU:HD22	1.96	0.48
1:r:310:ASN:HB2	1:s:378:ILE:O	2.13	0.48
1:s:490:ASN:O	1:s:505:ILE:N	2.37	0.48
1:u:73:GLU:OE1	1:u:486:LYS:NZ	2.41	0.48
1:u:421:VAL:CG1	1:v:95:ARG:HG3	2.44	0.48
1:z:194:LEU:HD13	1:2:311:GLY:HA2	1.94	0.48
1:z:409:PRO:HG3	1:z:432:TYR:CZ	2.48	0.48
1:1:409:PRO:HG3	1:1:432:TYR:CE1	2.49	0.48
1:5:75:TYR:OH	1:5:249:GLU:OE1	2.22	0.48
1:5:156:LYS:HE3	1:5:165:THR:HG22	1.94	0.48
1:7:468:SER:OG	1:7:471:ALA:O	2.26	0.48
1:A:154:VAL:HG22	1:A:167:TYR:CE1	2.48	0.48
1:A:310:ASN:HB2	1:G:378:ILE:O	2.13	0.48
1:B:409:PRO:HG3	1:B:432:TYR:CE1	2.49	0.48
1:B:441:ALA:HB2	1:J:465:PRO:HG3	1.95	0.48
1:C:283:SER:H	1:C:286:HIS:HD2	1.62	0.48
1:C:314:TRP:CH2	1:C:327:VAL:HG23	2.49	0.48
1:C:363:THR:H	1:b:235:LYS:HZ1	1.60	0.48
1:C:409:PRO:O	1:b:223:ILE:HD11	2.13	0.48
1:E:310:ASN:HB2	1:Q:378:ILE:O	2.14	0.48
1:E:311:GLY:HA2	1:Q:194:LEU:HD13	1.94	0.48
1:G:226:PRO:C	1:G:228:GLN:H	2.21	0.48
1:G:314:TRP:CH2	1:G:327:VAL:HG23	2.49	0.48
1:H:340:ARG:NH2	1:Y:431:ASP:OD2	2.46	0.48
1:I:283:SER:H	1:I:286:HIS:HD2	1.62	0.48
1:K:340:ARG:NH2	1:8:431:ASP:OD2	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:409:PRO:HG3	1:L:432:TYR:CZ	2.48	0.48
1:M:359:ALA:HB2	1:M:399:LEU:HD22	1.96	0.48
1:O:156:LYS:HE3	1:O:165:THR:HG22	1.94	0.48
1:O:283:SER:H	1:O:286:HIS:HD2	1.62	0.48
1:O:359:ALA:HB2	1:O:399:LEU:HD22	1.95	0.48
1:O:409:PRO:HG3	1:O:432:TYR:CZ	2.48	0.48
1:O:431:ASP:OD2	1:m:340:ARG:NH2	2.46	0.48
1:R:363:THR:H	1:S:235:LYS:HZ1	1.60	0.48
1:T:226:PRO:C	1:T:228:GLN:H	2.21	0.48
1:V:156:LYS:HE3	1:V:165:THR:HG22	1.94	0.48
1:V:314:TRP:CH2	1:V:327:VAL:HG23	2.49	0.48
1:W:339:TRP:HA	1:W:339:TRP:HE3	1.76	0.48
1:Y:409:PRO:HG3	1:Y:432:TYR:CE1	2.49	0.48
1:c:409:PRO:HG3	1:c:432:TYR:CE1	2.49	0.48
1:c:409:PRO:HG3	1:c:432:TYR:CZ	2.48	0.48
1:f:314:TRP:CH2	1:f:327:VAL:HG23	2.49	0.48
1:g:547:LEU:HD21	1:z:530:ASN:ND2	2.28	0.48
1:h:154:VAL:HG22	1:h:167:TYR:CE1	2.48	0.48
1:j:359:ALA:HB2	1:j:399:LEU:HD22	1.96	0.48
1:j:409:PRO:HG3	1:j:432:TYR:CE1	2.49	0.48
1:l:409:PRO:HG3	1:l:432:TYR:CZ	2.48	0.48
1:n:314:TRP:CH2	1:n:327:VAL:HG23	2.49	0.48
1:r:154:VAL:HG22	1:r:167:TYR:CE1	2.48	0.48
1:r:409:PRO:HG3	1:r:432:TYR:CZ	2.48	0.48
1:s:75:TYR:OH	1:s:249:GLU:OE1	2.22	0.48
1:s:283:SER:H	1:s:286:HIS:HD2	1.62	0.48
1:t:226:PRO:C	1:t:228:GLN:H	2.21	0.48
1:t:314:TRP:CH2	1:t:327:VAL:HG23	2.49	0.48
1:t:441:ALA:HB2	1:u:465:PRO:HG3	1.95	0.48
1:u:283:SER:H	1:u:286:HIS:HD2	1.62	0.48
1:u:431:ASP:OD2	1:v:340:ARG:NH2	2.45	0.48
1:x:359:ALA:HB2	1:x:399:LEU:HD22	1.95	0.48
1:x:430:GLN:HE21	1:y:223:ILE:HD13	1.79	0.48
1:7:283:SER:H	1:7:286:HIS:HD2	1.62	0.48
1:7:409:PRO:HG3	1:7:432:TYR:CE1	2.49	0.48
1:8:85:ARG:HG3	1:8:99:ASN:ND2	2.29	0.48
1:A:223:ILE:HD13	1:I:430:GLN:HE21	1.78	0.48
1:B:194:LEU:HD13	1:L:311:GLY:HA2	1.94	0.48
1:C:95:ARG:HG3	1:M:421:VAL:CG1	2.44	0.48
1:D:409:PRO:HG3	1:D:432:TYR:CE1	2.49	0.48
1:I:314:TRP:CH2	1:I:327:VAL:HG23	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:318:SER:HA	1:L:378:ILE:HD11	1.96	0.48
1:K:409:PRO:HG3	1:K:432:TYR:CE1	2.49	0.48
1:L:314:TRP:CH2	1:L:327:VAL:HG23	2.48	0.48
1:L:359:ALA:HB2	1:L:399:LEU:HD22	1.95	0.48
1:Q:359:ALA:HB2	1:Q:399:LEU:HD22	1.95	0.48
1:R:156:LYS:HE3	1:R:165:THR:HG22	1.94	0.48
1:S:310:ASN:HB2	1:U:378:ILE:O	2.13	0.48
1:S:490:ASN:O	1:S:505:ILE:N	2.37	0.48
1:T:359:ALA:HB2	1:T:399:LEU:HD22	1.95	0.48
1:U:283:SER:H	1:U:286:HIS:HD2	1.62	0.48
1:Z:85:ARG:HG3	1:Z:99:ASN:ND2	2.29	0.48
1:b:226:PRO:C	1:b:228:GLN:H	2.21	0.48
1:b:314:TRP:CH2	1:b:327:VAL:HG23	2.49	0.48
1:c:314:TRP:CH2	1:c:327:VAL:HG23	2.49	0.48
1:e:468:SER:OG	1:e:471:ALA:O	2.26	0.48
1:f:226:PRO:C	1:f:228:GLN:H	2.21	0.48
1:f:465:PRO:HG3	1:g:441:ALA:HB2	1.96	0.48
1:k:409:PRO:HG3	1:k:432:TYR:CE1	2.49	0.48
1:l:156:LYS:HE3	1:l:165:THR:HG22	1.94	0.48
1:l:283:SER:H	1:l:286:HIS:HD2	1.62	0.48
1:m:359:ALA:HB2	1:m:399:LEU:HD22	1.95	0.48
1:m:409:PRO:HG3	1:m:432:TYR:CE1	2.49	0.48
1:p:156:LYS:HE3	1:p:165:THR:HG22	1.94	0.48
1:p:314:TRP:CH2	1:p:327:VAL:HG23	2.49	0.48
1:q:156:LYS:HE3	1:q:165:THR:HG22	1.94	0.48
1:r:409:PRO:HG3	1:r:432:TYR:CE1	2.49	0.48
1:s:409:PRO:HG3	1:s:432:TYR:CZ	2.48	0.48
1:t:310:ASN:HB2	1:u:378:ILE:O	2.13	0.48
1:t:318:SER:HA	1:u:378:ILE:HD11	1.95	0.48
1:t:378:ILE:O	1:v:310:ASN:HB2	2.13	0.48
1:v:154:VAL:HG22	1:v:167:TYR:CE1	2.48	0.48
1:w:311:GLY:HA2	1:x:194:LEU:HD13	1.94	0.48
1:w:314:TRP:CH2	1:w:327:VAL:HG23	2.49	0.48
1:w:441:ALA:HB2	1:x:465:PRO:HG3	1.95	0.48
1:z:340:ARG:NH2	1:2:431:ASP:OD2	2.46	0.48
1:z:378:ILE:HD11	1:2:318:SER:HA	1.96	0.48
1:1:441:ALA:HB2	1:2:465:PRO:HG3	1.95	0.48
1:3:468:SER:OG	1:3:471:ALA:O	2.26	0.48
1:5:334:TYR:CD2	1:5:442:VAL:HG11	2.49	0.48
1:A:85:ARG:HG3	1:A:99:ASN:ND2	2.28	0.48
1:B:409:PRO:HG3	1:B:432:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:530:ASN:ND2	1:L:547:LEU:HD21	2.29	0.48
1:E:194:LEU:HD13	1:F:311:GLY:HA2	1.94	0.48
1:E:530:ASN:ND2	1:P:547:LEU:HD21	2.27	0.48
1:H:156:LYS:HE3	1:H:165:THR:HG22	1.94	0.48
1:H:334:TYR:CD2	1:H:442:VAL:HG11	2.49	0.48
1:H:378:ILE:O	1:Y:310:ASN:HB2	2.13	0.48
1:H:409:PRO:HG3	1:H:432:TYR:CE1	2.49	0.48
1:J:283:SER:H	1:J:286:HIS:HD2	1.62	0.48
1:L:334:TYR:CD2	1:L:442:VAL:HG11	2.49	0.48
1:N:85:ARG:HG3	1:N:99:ASN:ND2	2.29	0.48
1:N:409:PRO:HG3	1:N:432:TYR:CE1	2.49	0.48
1:P:226:PRO:C	1:P:228:GLN:H	2.21	0.48
1:R:441:ALA:HB2	1:S:465:PRO:HG3	1.95	0.48
1:S:154:VAL:HG22	1:S:167:TYR:CE1	2.48	0.48
1:S:334:TYR:CD2	1:S:442:VAL:HG11	2.49	0.48
1:T:311:GLY:HA2	1:d:194:LEU:HD13	1.94	0.48
1:T:409:PRO:HG3	1:T:432:TYR:CE1	2.49	0.48
1:V:283:SER:H	1:V:286:HIS:HD2	1.62	0.48
1:V:468:SER:OG	1:V:471:ALA:O	2.26	0.48
1:X:409:PRO:HG3	1:X:432:TYR:CE1	2.49	0.48
1:Y:226:PRO:C	1:Y:228:GLN:H	2.21	0.48
1:Z:121:TRP:CE3	1:Z:517:LEU:HG	2.47	0.48
1:a:75:TYR:OH	1:a:249:GLU:OE1	2.22	0.48
1:a:468:SER:OG	1:a:471:ALA:O	2.26	0.48
1:b:409:PRO:HG3	1:b:432:TYR:CE1	2.49	0.48
1:d:156:LYS:HE3	1:d:165:THR:HG22	1.94	0.48
1:d:441:ALA:HB2	1:l:465:PRO:HG3	1.95	0.48
1:f:378:ILE:HD11	1:g:318:SER:HA	1.96	0.48
1:f:409:PRO:HG3	1:f:432:TYR:CE1	2.49	0.48
1:g:226:PRO:C	1:g:228:GLN:H	2.21	0.48
1:i:85:ARG:HG3	1:i:99:ASN:ND2	2.29	0.48
1:i:283:SER:H	1:i:286:HIS:HD2	1.62	0.48
1:i:409:PRO:HG3	1:i:432:TYR:CE1	2.49	0.48
1:l:359:ALA:HB2	1:l:399:LEU:HD22	1.96	0.48
1:o:226:PRO:C	1:o:228:GLN:H	2.21	0.48
1:o:409:PRO:HG3	1:o:432:TYR:CE1	2.49	0.48
1:q:378:ILE:HD11	1:s:318:SER:HA	1.96	0.48
1:q:441:ALA:HB2	1:r:465:PRO:HG3	1.95	0.48
1:r:334:TYR:CD2	1:r:442:VAL:HG11	2.49	0.48
1:u:314:TRP:CH2	1:u:327:VAL:HG23	2.49	0.48
1:u:409:PRO:HG3	1:u:432:TYR:CZ	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:194:LEU:HD13	1:y:311:GLY:HA2	1.94	0.48
1:w:465:PRO:HG3	1:y:441:ALA:HB2	1.95	0.48
1:x:409:PRO:HG3	1:x:432:TYR:CE1	2.49	0.48
1:z:283:SER:H	1:z:286:HIS:HD2	1.62	0.48
1:z:311:GLY:HA2	1:1:194:LEU:HD13	1.94	0.48
1:z:334:TYR:CD2	1:z:442:VAL:HG11	2.49	0.48
1:z:359:ALA:HB2	1:z:399:LEU:HD22	1.95	0.48
1:2:530:ASN:ND2	1:4:547:LEU:HD21	2.28	0.48
1:4:409:PRO:HG3	1:4:432:TYR:CE1	2.49	0.48
1:5:314:TRP:CH2	1:5:327:VAL:HG23	2.49	0.48
1:6:314:TRP:CH2	1:6:327:VAL:HG23	2.49	0.48
1:7:226:PRO:C	1:7:228:GLN:H	2.21	0.48
1:A:314:TRP:CH2	1:A:327:VAL:HG23	2.49	0.48
1:B:73:GLU:OE1	1:B:486:LYS:NZ	2.41	0.48
1:C:226:PRO:C	1:C:228:GLN:H	2.21	0.48
1:D:318:SER:HA	1:N:378:ILE:HD11	1.95	0.48
1:E:314:TRP:CH2	1:E:327:VAL:HG23	2.49	0.48
1:E:318:SER:HA	1:Q:378:ILE:HD11	1.96	0.48
1:G:318:SER:HA	1:I:378:ILE:HD11	1.96	0.48
1:H:314:TRP:CH2	1:H:327:VAL:HG23	2.49	0.48
1:I:409:PRO:HG3	1:I:432:TYR:CZ	2.48	0.48
1:J:334:TYR:CD2	1:J:442:VAL:HG11	2.49	0.48
1:J:530:ASN:ND2	1:K:547:LEU:HD21	2.28	0.48
1:K:283:SER:O	1:K:287:THR:OG1	2.30	0.48
1:L:283:SER:H	1:L:286:HIS:HD2	1.62	0.48
1:L:409:PRO:HG3	1:L:432:TYR:CE1	2.49	0.48
1:N:283:SER:H	1:N:286:HIS:HD2	1.62	0.48
1:O:73:GLU:OE1	1:O:486:LYS:NZ	2.41	0.48
1:P:468:SER:OG	1:P:471:ALA:O	2.26	0.48
1:R:468:SER:OG	1:R:471:ALA:O	2.26	0.48
1:S:409:PRO:HG3	1:S:432:TYR:CE1	2.49	0.48
1:S:468:SER:OG	1:S:471:ALA:O	2.26	0.48
1:T:318:SER:HA	1:d:378:ILE:HD11	1.96	0.48
1:T:340:ARG:NH2	1:l:431:ASP:OD2	2.46	0.48
1:U:334:TYR:CD2	1:U:442:VAL:HG11	2.49	0.48
1:V:310:ASN:HB2	1:e:378:ILE:O	2.13	0.48
1:W:283:SER:H	1:W:286:HIS:HD2	1.62	0.48
1:W:314:TRP:CH2	1:W:327:VAL:HG23	2.49	0.48
1:b:283:SER:H	1:b:286:HIS:CD2	2.30	0.48
1:d:334:TYR:CD2	1:d:442:VAL:HG11	2.49	0.48
1:d:363:THR:H	1:l:235:LYS:HZ1	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:226:PRO:C	1:h:228:GLN:H	2.21	0.48
1:i:314:TRP:CH2	1:i:327:VAL:HG23	2.48	0.48
1:i:378:ILE:HD11	1:k:318:SER:HA	1.95	0.48
1:m:311:GLY:HA2	1:n:194:LEU:HD13	1.94	0.48
1:m:318:SER:HA	1:n:378:ILE:HD11	1.96	0.48
1:n:334:TYR:CD2	1:n:442:VAL:HG11	2.49	0.48
1:q:314:TRP:CH2	1:q:327:VAL:HG23	2.48	0.48
1:q:359:ALA:HB2	1:q:399:LEU:HD22	1.95	0.48
1:s:334:TYR:CD2	1:s:442:VAL:HG11	2.49	0.48
1:t:154:VAL:HG22	1:t:167:TYR:CE1	2.48	0.48
1:t:421:VAL:CG1	1:u:95:ARG:HG3	2.43	0.48
1:v:314:TRP:CH2	1:v:327:VAL:HG23	2.49	0.48
1:w:310:ASN:HB2	1:x:378:ILE:O	2.14	0.48
1:w:318:SER:HA	1:x:378:ILE:HD11	1.96	0.48
1:z:314:TRP:CH2	1:z:327:VAL:HG23	2.49	0.48
1:1:73:GLU:OE1	1:1:486:LYS:NZ	2.41	0.48
1:2:283:SER:H	1:2:286:HIS:HD2	1.62	0.48
1:2:334:TYR:CD2	1:2:442:VAL:HG11	2.49	0.48
1:3:75:TYR:OH	1:3:249:GLU:OE1	2.22	0.48
1:5:378:ILE:O	1:7:310:ASN:HB2	2.13	0.48
1:6:339:TRP:HA	1:6:339:TRP:HE3	1.76	0.48
1:8:121:TRP:CE3	1:8:517:LEU:HG	2.47	0.48
1:B:85:ARG:HG3	1:B:99:ASN:ND2	2.28	0.48
1:B:378:ILE:O	1:L:310:ASN:HB2	2.13	0.48
1:B:465:PRO:HG3	1:L:441:ALA:HB2	1.95	0.48
1:F:314:TRP:CH2	1:F:327:VAL:HG23	2.49	0.48
1:G:154:VAL:HG22	1:G:167:TYR:CE1	2.48	0.48
1:H:359:ALA:HB2	1:H:399:LEU:HD22	1.95	0.48
1:H:465:PRO:HG3	1:Y:441:ALA:HB2	1.95	0.48
1:J:409:PRO:HG3	1:J:432:TYR:CE1	2.49	0.48
1:M:193:TYR:CE2	1:b:326:ARG:HD3	2.49	0.48
1:M:226:PRO:C	1:M:228:GLN:H	2.21	0.48
1:O:465:PRO:HG3	1:n:441:ALA:HB2	1.95	0.48
1:Q:409:PRO:HG3	1:Q:432:TYR:CE1	2.49	0.48
1:R:314:TRP:CH2	1:R:327:VAL:HG23	2.48	0.48
1:R:359:ALA:HB2	1:R:399:LEU:HD22	1.95	0.48
1:U:75:TYR:OH	1:U:249:GLU:OE1	2.22	0.48
1:W:311:GLY:HA2	1:Y:194:LEU:HD13	1.94	0.48
1:b:154:VAL:HG22	1:b:167:TYR:CE1	2.48	0.48
1:c:359:ALA:HB2	1:c:399:LEU:HD22	1.95	0.48
1:d:75:TYR:OH	1:d:249:GLU:OE1	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:283:SER:H	1:f:286:HIS:CD2	2.30	0.48
1:i:334:TYR:CD2	1:i:442:VAL:HG11	2.49	0.48
1:j:547:LEU:HD21	1:w:530:ASN:ND2	2.27	0.48
1:n:75:TYR:OH	1:n:249:GLU:OE1	2.22	0.48
1:n:156:LYS:HE3	1:n:165:THR:HG22	1.94	0.48
1:p:86:PHE:CG	1:p:87:PRO:HD2	2.49	0.48
1:p:283:SER:H	1:p:286:HIS:HD2	1.62	0.48
1:r:468:SER:OG	1:r:471:ALA:O	2.26	0.48
1:w:359:ALA:HB2	1:w:399:LEU:HD22	1.95	0.48
1:y:314:TRP:CH2	1:y:327:VAL:HG23	2.49	0.48
1:z:283:SER:O	1:z:287:THR:OG1	2.30	0.48
1:z:310:ASN:HB2	1:1:378:ILE:O	2.13	0.48
1:z:409:PRO:HG3	1:z:432:TYR:CE1	2.49	0.48
1:2:409:PRO:HG3	1:2:432:TYR:CE1	2.49	0.48
1:5:359:ALA:HB2	1:5:399:LEU:HD22	1.95	0.48
1:5:409:PRO:HG3	1:5:432:TYR:CE1	2.49	0.48
1:5:465:PRO:HG3	1:7:441:ALA:HB2	1.95	0.48
1:6:283:SER:H	1:6:286:HIS:HD2	1.62	0.48
1:6:311:GLY:HA2	1:7:194:LEU:HD13	1.94	0.48
1:A:283:SER:H	1:A:286:HIS:HD2	1.62	0.48
1:C:378:ILE:HD11	1:M:318:SER:HA	1.95	0.48
1:E:359:ALA:HB2	1:E:399:LEU:HD22	1.96	0.48
1:F:409:PRO:HG3	1:F:432:TYR:CE1	2.49	0.48
1:G:409:PRO:HG3	1:G:432:TYR:CE1	2.49	0.48
1:H:318:SER:HA	1:W:378:ILE:HD11	1.95	0.48
1:I:409:PRO:HG3	1:I:432:TYR:CE1	2.49	0.48
1:I:468:SER:OG	1:I:471:ALA:O	2.26	0.48
1:L:226:PRO:C	1:L:228:GLN:H	2.21	0.48
1:R:193:TYR:CE2	1:U:326:ARG:HD3	2.49	0.48
1:R:430:GLN:HE21	1:S:223:ILE:HD13	1.79	0.48
1:T:314:TRP:CH2	1:T:327:VAL:HG23	2.49	0.48
1:V:86:PHE:CG	1:V:87:PRO:HD2	2.49	0.48
1:V:318:SER:HA	1:e:378:ILE:HD11	1.96	0.48
1:Z:334:TYR:CD2	1:Z:442:VAL:HG11	2.49	0.48
1:Z:359:ALA:HB2	1:Z:399:LEU:HD22	1.95	0.48
1:c:378:ILE:O	1:p:310:ASN:HB2	2.13	0.48
1:c:378:ILE:HD11	1:p:318:SER:HA	1.96	0.48
1:e:359:ALA:HB2	1:e:399:LEU:HD22	1.96	0.48
1:f:154:VAL:HG22	1:f:167:TYR:CE1	2.48	0.48
1:f:310:ASN:HB2	1:h:378:ILE:O	2.13	0.48
1:i:154:VAL:HG22	1:i:167:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:283:SER:H	1:m:286:HIS:HD2	1.62	0.48
1:p:490:ASN:O	1:p:505:ILE:N	2.37	0.48
1:q:430:GLN:HE21	1:r:223:ILE:HD13	1.79	0.48
1:t:409:PRO:HG3	1:t:432:TYR:CE1	2.49	0.48
1:t:465:PRO:HG3	1:v:441:ALA:HB2	1.95	0.48
1:u:409:PRO:HG3	1:u:432:TYR:CE1	2.49	0.48
1:v:85:ARG:HG3	1:v:99:ASN:ND2	2.29	0.48
1:z:441:ALA:HB2	1:1:465:PRO:HG3	1.95	0.48
1:1:85:ARG:HG3	1:1:99:ASN:ND2	2.29	0.48
1:1:409:PRO:HG3	1:1:432:TYR:CZ	2.48	0.48
1:3:409:PRO:HG3	1:3:432:TYR:CE1	2.49	0.48
1:7:86:PHE:CG	1:7:87:PRO:HD2	2.49	0.48
1:8:86:PHE:CG	1:8:87:PRO:HD2	2.49	0.48
1:8:334:TYR:CD2	1:8:442:VAL:HG11	2.49	0.48
1:A:43:ASN:OD1	1:A:45:ARG:HG2	2.14	0.47
1:A:441:ALA:HB2	1:G:465:PRO:HG3	1.95	0.47
1:B:310:ASN:HB2	1:J:378:ILE:O	2.13	0.47
1:B:334:TYR:CD2	1:B:442:VAL:HG11	2.49	0.47
1:B:378:ILE:HD11	1:L:318:SER:HA	1.96	0.47
1:D:86:PHE:CG	1:D:87:PRO:HD2	2.49	0.47
1:D:378:ILE:HD11	1:P:318:SER:HA	1.95	0.47
1:H:441:ALA:HB2	1:W:465:PRO:HG3	1.95	0.47
1:N:314:TRP:CH2	1:N:327:VAL:HG23	2.49	0.47
1:N:334:TYR:CD2	1:N:442:VAL:HG11	2.49	0.47
1:N:457:LYS:HD2	1:N:479:PRO:HD3	1.96	0.47
1:O:378:ILE:O	1:n:310:ASN:HB2	2.13	0.47
1:O:378:ILE:HD11	1:n:318:SER:HA	1.95	0.47
1:P:457:LYS:HD2	1:P:479:PRO:HD3	1.96	0.47
1:Q:334:TYR:CD2	1:Q:442:VAL:HG11	2.49	0.47
1:R:43:ASN:OD1	1:R:45:ARG:HG2	2.14	0.47
1:R:378:ILE:HD11	1:U:318:SER:HA	1.96	0.47
1:T:154:VAL:CG2	1:T:167:TYR:CE1	2.97	0.47
1:V:334:TYR:CD2	1:V:442:VAL:HG11	2.49	0.47
1:V:490:ASN:O	1:V:505:ILE:N	2.37	0.47
1:Z:86:PHE:CG	1:Z:87:PRO:HD2	2.49	0.47
1:a:334:TYR:CD2	1:a:442:VAL:HG11	2.49	0.47
1:a:409:PRO:HG3	1:a:432:TYR:CE1	2.49	0.47
1:c:156:LYS:HE3	1:c:165:THR:HG22	1.94	0.47
1:c:334:TYR:CD2	1:c:442:VAL:HG11	2.49	0.47
1:d:310:ASN:HB2	1:l:378:ILE:O	2.13	0.47
1:d:318:SER:HA	1:l:378:ILE:HD11	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:334:TYR:CD2	1:e:442:VAL:HG11	2.49	0.47
1:g:194:LEU:HD13	1:h:311:GLY:HA2	1.95	0.47
1:h:409:PRO:HG3	1:h:432:TYR:CE1	2.49	0.47
1:i:457:LYS:HD2	1:i:479:PRO:HD3	1.96	0.47
1:j:318:SER:HA	1:k:378:ILE:HD11	1.95	0.47
1:j:468:SER:OG	1:j:471:ALA:O	2.26	0.47
1:k:86:PHE:CG	1:k:87:PRO:HD2	2.49	0.47
1:k:154:VAL:CG2	1:k:167:TYR:CE1	2.97	0.47
1:l:314:TRP:CH2	1:l:327:VAL:HG23	2.48	0.47
1:m:154:VAL:CG2	1:m:167:TYR:CE1	2.97	0.47
1:m:314:TRP:CH2	1:m:327:VAL:HG23	2.49	0.47
1:m:334:TYR:CD2	1:m:442:VAL:HG11	2.49	0.47
1:n:409:PRO:HG3	1:n:432:TYR:CE1	2.49	0.47
1:o:283:SER:H	1:o:286:HIS:HD2	1.62	0.47
1:p:334:TYR:CD2	1:p:442:VAL:HG11	2.49	0.47
1:p:468:SER:OG	1:p:471:ALA:O	2.26	0.47
1:q:193:TYR:CE2	1:s:326:ARG:HD3	2.49	0.47
1:r:43:ASN:OD1	1:r:45:ARG:HG2	2.14	0.47
1:r:85:ARG:HG3	1:r:99:ASN:ND2	2.29	0.47
1:w:154:VAL:CG2	1:w:167:TYR:CE1	2.97	0.47
1:x:334:TYR:CD2	1:x:442:VAL:HG11	2.49	0.47
1:y:43:ASN:OD1	1:y:45:ARG:HG2	2.14	0.47
1:z:318:SER:HA	1:1:378:ILE:HD11	1.96	0.47
1:1:43:ASN:OD1	1:1:45:ARG:HG2	2.14	0.47
1:1:310:ASN:HB2	1:2:378:ILE:O	2.13	0.47
1:1:457:LYS:HD2	1:1:479:PRO:HD3	1.96	0.47
1:3:43:ASN:OD1	1:3:45:ARG:HG2	2.14	0.47
1:4:283:SER:O	1:4:287:THR:OG1	2.30	0.47
1:6:85:ARG:HG3	1:6:99:ASN:ND2	2.28	0.47
1:6:334:TYR:CD2	1:6:442:VAL:HG11	2.49	0.47
1:6:409:PRO:HG3	1:6:432:TYR:CE1	2.49	0.47
1:8:359:ALA:HB2	1:8:399:LEU:HD22	1.95	0.47
1:A:334:TYR:CD2	1:A:442:VAL:HG11	2.49	0.47
1:A:409:PRO:HG3	1:A:432:TYR:CE1	2.49	0.47
1:A:457:LYS:HD2	1:A:479:PRO:HD3	1.96	0.47
1:B:193:TYR:CE2	1:L:326:ARG:HD3	2.49	0.47
1:B:318:SER:HA	1:J:378:ILE:HD11	1.95	0.47
1:B:457:LYS:HD2	1:B:479:PRO:HD3	1.96	0.47
1:D:154:VAL:CG2	1:D:167:TYR:CE1	2.97	0.47
1:E:154:VAL:CG2	1:E:167:TYR:CE1	2.97	0.47
1:F:43:ASN:OD1	1:F:45:ARG:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:43:ASN:OD1	1:G:45:ARG:HG2	2.15	0.47
1:G:241:ASP:N	1:G:241:ASP:OD1	2.48	0.47
1:G:310:ASN:HB2	1:I:378:ILE:O	2.14	0.47
1:H:154:VAL:CG2	1:H:167:TYR:CE1	2.97	0.47
1:J:154:VAL:CG2	1:J:167:TYR:CE1	2.97	0.47
1:K:154:VAL:HG22	1:K:167:TYR:CE1	2.48	0.47
1:K:326:ARG:HD3	1:a:193:TYR:CE2	2.49	0.47
1:L:154:VAL:CG2	1:L:167:TYR:CE1	2.97	0.47
1:M:378:ILE:O	1:b:310:ASN:HB2	2.13	0.47
1:M:409:PRO:HG3	1:M:432:TYR:CE1	2.49	0.47
1:M:468:SER:OG	1:M:471:ALA:O	2.26	0.47
1:N:86:PHE:CG	1:N:87:PRO:HD2	2.49	0.47
1:N:154:VAL:HG22	1:N:167:TYR:CE1	2.48	0.47
1:N:326:ARG:HD3	1:P:193:TYR:CE2	2.49	0.47
1:P:283:SER:H	1:P:286:HIS:HD2	1.62	0.47
1:S:43:ASN:OD1	1:S:45:ARG:HG2	2.15	0.47
1:S:154:VAL:CG2	1:S:167:TYR:CE1	2.97	0.47
1:T:283:SER:H	1:T:286:HIS:HD2	1.62	0.47
1:T:334:TYR:CD2	1:T:442:VAL:HG11	2.49	0.47
1:V:226:PRO:C	1:V:228:GLN:H	2.21	0.47
1:V:457:LYS:HD2	1:V:479:PRO:HD3	1.96	0.47
1:W:43:ASN:OD1	1:W:45:ARG:HG2	2.15	0.47
1:W:85:ARG:HG3	1:W:99:ASN:ND2	2.29	0.47
1:W:334:TYR:CD2	1:W:442:VAL:HG11	2.49	0.47
1:W:409:PRO:HG3	1:W:432:TYR:CE1	2.49	0.47
1:X:154:VAL:CG2	1:X:167:TYR:CE1	2.97	0.47
1:X:457:LYS:HD2	1:X:479:PRO:HD3	1.96	0.47
1:Y:86:PHE:CG	1:Y:87:PRO:HD2	2.49	0.47
1:Y:314:TRP:CH2	1:Y:327:VAL:HG23	2.49	0.47
1:a:43:ASN:OD1	1:a:45:ARG:HG2	2.14	0.47
1:c:457:LYS:HD2	1:c:479:PRO:HD3	1.96	0.47
1:d:86:PHE:CG	1:d:87:PRO:HD2	2.49	0.47
1:e:43:ASN:OD1	1:e:45:ARG:HG2	2.14	0.47
1:e:154:VAL:CG2	1:e:167:TYR:CE1	2.97	0.47
1:e:457:LYS:HD2	1:e:479:PRO:HD3	1.96	0.47
1:f:86:PHE:CG	1:f:87:PRO:HD2	2.49	0.47
1:f:326:ARG:HD3	1:h:193:TYR:CE2	2.50	0.47
1:f:359:ALA:HB2	1:f:399:LEU:HD22	1.96	0.47
1:h:86:PHE:CG	1:h:87:PRO:HD2	2.49	0.47
1:i:86:PHE:CG	1:i:87:PRO:HD2	2.49	0.47
1:j:457:LYS:HD2	1:j:479:PRO:HD3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:43:ASN:OD1	1:o:45:ARG:HG2	2.15	0.47
1:o:154:VAL:CG2	1:o:167:TYR:CE1	2.97	0.47
1:p:409:PRO:HG3	1:p:432:TYR:CE1	2.49	0.47
1:q:468:SER:OG	1:q:471:ALA:O	2.26	0.47
1:r:154:VAL:CG2	1:r:167:TYR:CE1	2.97	0.47
1:r:226:PRO:C	1:r:228:GLN:H	2.21	0.47
1:t:43:ASN:OD1	1:t:45:ARG:HG2	2.15	0.47
1:u:326:ARG:HD3	1:v:193:TYR:CE2	2.49	0.47
1:u:468:SER:OG	1:u:471:ALA:O	2.26	0.47
1:v:43:ASN:OD1	1:v:45:ARG:HG2	2.14	0.47
1:v:283:SER:H	1:v:286:HIS:HD2	1.62	0.47
1:v:334:TYR:CD2	1:v:442:VAL:HG11	2.49	0.47
1:v:409:PRO:HG3	1:v:432:TYR:CE1	2.49	0.47
1:y:409:PRO:HG3	1:y:432:TYR:CE1	2.49	0.47
1:z:226:PRO:C	1:z:228:GLN:H	2.21	0.47
1:1:334:TYR:CD2	1:1:442:VAL:HG11	2.49	0.47
1:2:154:VAL:CG2	1:2:167:TYR:CE1	2.97	0.47
1:3:334:TYR:CD2	1:3:442:VAL:HG11	2.49	0.47
1:4:154:VAL:HG22	1:4:167:TYR:CE1	2.48	0.47
1:5:154:VAL:CG2	1:5:167:TYR:CE1	2.97	0.47
1:5:441:ALA:HB2	1:6:465:PRO:HG3	1.95	0.47
1:6:43:ASN:OD1	1:6:45:ARG:HG2	2.15	0.47
1:7:314:TRP:CH2	1:7:327:VAL:HG23	2.49	0.47
1:A:326:ARG:HD3	1:G:193:TYR:CE2	2.50	0.47
1:B:43:ASN:OD1	1:B:45:ARG:HG2	2.15	0.47
1:C:409:PRO:HG3	1:C:432:TYR:CE1	2.49	0.47
1:D:326:ARG:HD3	1:N:193:TYR:CE2	2.50	0.47
1:F:193:TYR:CE2	1:Q:326:ARG:HD3	2.49	0.47
1:F:241:ASP:N	1:F:241:ASP:OD1	2.47	0.47
1:H:193:TYR:CE2	1:Y:326:ARG:HD3	2.49	0.47
1:J:86:PHE:CG	1:J:87:PRO:HD2	2.49	0.47
1:K:310:ASN:HB2	1:a:378:ILE:O	2.13	0.47
1:K:465:PRO:HG3	1:8:441:ALA:HB2	1.95	0.47
1:M:86:PHE:CG	1:M:87:PRO:HD2	2.49	0.47
1:M:154:VAL:CG2	1:M:167:TYR:CE1	2.97	0.47
1:N:430:GLN:HE21	1:P:223:ILE:HD13	1.80	0.47
1:O:154:VAL:CG2	1:O:167:TYR:CE1	2.97	0.47
1:Q:283:SER:H	1:Q:286:HIS:HD2	1.62	0.47
1:R:154:VAL:CG2	1:R:167:TYR:CE1	2.97	0.47
1:R:223:ILE:HD13	1:U:430:GLN:HE21	1.79	0.47
1:S:457:LYS:HD2	1:S:479:PRO:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:326:ARG:HD3	1:d:193:TYR:CE2	2.49	0.47
1:V:235:LYS:HZ1	1:X:363:THR:H	1.62	0.47
1:X:43:ASN:OD1	1:X:45:ARG:HG2	2.15	0.47
1:X:154:VAL:HG22	1:X:167:TYR:CE1	2.48	0.47
1:X:193:TYR:CE2	1:e:326:ARG:HD3	2.50	0.47
1:X:283:SER:H	1:X:286:HIS:HD2	1.62	0.47
1:Y:334:TYR:CD2	1:Y:442:VAL:HG11	2.49	0.47
1:Z:326:ARG:HD3	1:4:193:TYR:CE2	2.49	0.47
1:Z:441:ALA:HB2	1:4:465:PRO:HG3	1.95	0.47
1:b:86:PHE:CG	1:b:87:PRO:HD2	2.49	0.47
1:b:283:SER:H	1:b:286:HIS:HD2	1.62	0.47
1:b:359:ALA:HB2	1:b:399:LEU:HD22	1.96	0.47
1:c:43:ASN:OD1	1:c:45:ARG:HG2	2.14	0.47
1:c:154:VAL:CG2	1:c:167:TYR:CE1	2.97	0.47
1:d:154:VAL:CG2	1:d:167:TYR:CE1	2.97	0.47
1:d:326:ARG:HD3	1:l:193:TYR:CE2	2.50	0.47
1:d:409:PRO:HG3	1:d:432:TYR:CE1	2.49	0.47
1:e:156:LYS:HE3	1:e:165:THR:HG22	1.94	0.47
1:f:43:ASN:OD1	1:f:45:ARG:HG2	2.14	0.47
1:f:283:SER:H	1:f:286:HIS:HD2	1.62	0.47
1:g:334:TYR:CD2	1:g:442:VAL:HG11	2.49	0.47
1:g:409:PRO:HG3	1:g:432:TYR:CE1	2.49	0.47
1:h:154:VAL:CG2	1:h:167:TYR:CE1	2.97	0.47
1:i:193:TYR:CE2	1:k:326:ARG:HD3	2.50	0.47
1:i:326:ARG:HD3	1:j:193:TYR:CE2	2.50	0.47
1:i:430:GLN:HE21	1:j:223:ILE:HD13	1.80	0.47
1:j:283:SER:H	1:j:286:HIS:HD2	1.62	0.47
1:l:154:VAL:CG2	1:l:167:TYR:CE1	2.97	0.47
1:n:86:PHE:CG	1:n:87:PRO:HD2	2.49	0.47
1:n:154:VAL:CG2	1:n:167:TYR:CE1	2.97	0.47
1:p:339:TRP:HA	1:p:339:TRP:HE3	1.76	0.47
1:p:457:LYS:HD2	1:p:479:PRO:HD3	1.96	0.47
1:q:43:ASN:OD1	1:q:45:ARG:HG2	2.15	0.47
1:q:86:PHE:CG	1:q:87:PRO:HD2	2.49	0.47
1:q:154:VAL:HG22	1:q:167:TYR:CE1	2.48	0.47
1:q:154:VAL:CG2	1:q:167:TYR:CE1	2.97	0.47
1:q:326:ARG:HD3	1:r:193:TYR:CE2	2.50	0.47
1:t:193:TYR:CE2	1:v:326:ARG:HD3	2.50	0.47
1:v:457:LYS:HD2	1:v:479:PRO:HD3	1.96	0.47
1:w:430:GLN:HE21	1:x:223:ILE:HD13	1.79	0.47
1:x:314:TRP:CH2	1:x:327:VAL:HG23	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:154:VAL:CG2	1:z:167:TYR:CE1	2.97	0.47
1:z:326:ARG:HD3	1:1:193:TYR:CE2	2.50	0.47
1:1:318:SER:HA	1:2:378:ILE:HD11	1.96	0.47
1:2:86:PHE:CG	1:2:87:PRO:HD2	2.49	0.47
1:3:359:ALA:HB2	1:3:399:LEU:HD22	1.95	0.47
1:A:75:TYR:OH	1:A:249:GLU:OE1	2.22	0.47
1:B:359:ALA:HB2	1:B:399:LEU:HD22	1.95	0.47
1:C:154:VAL:CG2	1:C:167:TYR:CE1	2.97	0.47
1:D:314:TRP:CH2	1:D:327:VAL:HG23	2.49	0.47
1:E:334:TYR:CD2	1:E:442:VAL:HG11	2.49	0.47
1:E:378:ILE:HD11	1:F:318:SER:HA	1.95	0.47
1:E:409:PRO:HG3	1:E:432:TYR:CE1	2.49	0.47
1:G:334:TYR:CD2	1:G:442:VAL:HG11	2.49	0.47
1:I:154:VAL:HG22	1:I:167:TYR:CE1	2.48	0.47
1:J:217:TRP:O	1:J:236:LYS:HA	2.15	0.47
1:J:359:ALA:HB2	1:J:399:LEU:HD22	1.95	0.47
1:K:193:TYR:CE2	1:8:326:ARG:HD3	2.49	0.47
1:K:283:SER:H	1:K:286:HIS:HD2	1.62	0.47
1:K:318:SER:HA	1:a:378:ILE:HD11	1.96	0.47
1:N:441:ALA:HB2	1:P:465:PRO:HG3	1.95	0.47
1:O:235:LYS:HZ1	1:n:363:THR:H	1.62	0.47
1:O:314:TRP:CH2	1:O:327:VAL:HG23	2.49	0.47
1:P:217:TRP:O	1:P:236:LYS:HA	2.15	0.47
1:Q:154:VAL:CG2	1:Q:167:TYR:CE1	2.97	0.47
1:Q:314:TRP:CH2	1:Q:327:VAL:HG23	2.49	0.47
1:R:86:PHE:CG	1:R:87:PRO:HD2	2.49	0.47
1:R:326:ARG:HD3	1:S:193:TYR:CE2	2.50	0.47
1:R:334:TYR:CD2	1:R:442:VAL:HG11	2.49	0.47
1:R:465:PRO:HG3	1:U:441:ALA:HB2	1.95	0.47
1:S:326:ARG:HD3	1:U:193:TYR:CE2	2.50	0.47
1:V:409:PRO:HG3	1:V:432:TYR:CE1	2.49	0.47
1:Y:156:LYS:HE3	1:Y:165:THR:HG22	1.94	0.47
1:Z:378:ILE:HD11	1:3:318:SER:HA	1.95	0.47
1:a:318:SER:HA	1:8:378:ILE:HD11	1.95	0.47
1:a:457:LYS:HD2	1:a:479:PRO:HD3	1.96	0.47
1:b:43:ASN:OD1	1:b:45:ARG:HG2	2.15	0.47
1:b:154:VAL:CG2	1:b:167:TYR:CE1	2.97	0.47
1:c:86:PHE:CG	1:c:87:PRO:HD2	2.49	0.47
1:c:223:ILE:HD13	1:p:430:GLN:HE21	1.80	0.47
1:c:326:ARG:HD3	1:o:193:TYR:CE2	2.50	0.47
1:d:339:TRP:HA	1:d:339:TRP:HE3	1.76	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:86:PHE:CG	1:e:87:PRO:HD2	2.49	0.47
1:f:154:VAL:CG2	1:f:167:TYR:CE1	2.97	0.47
1:h:334:TYR:CD2	1:h:442:VAL:HG11	2.49	0.47
1:i:441:ALA:HB2	1:j:465:PRO:HG3	1.95	0.47
1:j:217:TRP:O	1:j:236:LYS:HA	2.15	0.47
1:k:241:ASP:OD1	1:k:241:ASP:N	2.48	0.47
1:k:314:TRP:CH2	1:k:327:VAL:HG23	2.48	0.47
1:k:468:SER:OG	1:k:471:ALA:O	2.26	0.47
1:l:86:PHE:CG	1:l:87:PRO:HD2	2.49	0.47
1:n:43:ASN:OD1	1:n:45:ARG:HG2	2.14	0.47
1:n:241:ASP:OD1	1:n:241:ASP:N	2.48	0.47
1:o:359:ALA:HB2	1:o:399:LEU:HD22	1.95	0.47
1:q:223:ILE:HD13	1:s:430:GLN:HE21	1.79	0.47
1:r:283:SER:H	1:r:286:HIS:HD2	1.62	0.47
1:r:457:LYS:HD2	1:r:479:PRO:HD3	1.96	0.47
1:w:226:PRO:C	1:w:228:GLN:H	2.21	0.47
1:x:283:SER:H	1:x:286:HIS:HD2	1.62	0.47
1:1:217:TRP:O	1:1:236:LYS:HA	2.15	0.47
1:2:217:TRP:O	1:2:236:LYS:HA	2.15	0.47
1:2:359:ALA:HB2	1:2:399:LEU:HD22	1.96	0.47
1:3:193:TYR:CE2	1:4:326:ARG:HD3	2.49	0.47
1:3:378:ILE:HD11	1:4:318:SER:HA	1.96	0.47
1:3:457:LYS:HD2	1:3:479:PRO:HD3	1.96	0.47
1:4:283:SER:H	1:4:286:HIS:HD2	1.62	0.47
1:4:314:TRP:CH2	1:4:327:VAL:HG23	2.49	0.47
1:5:193:TYR:CE2	1:7:326:ARG:HD3	2.50	0.47
1:5:318:SER:HA	1:6:378:ILE:HD11	1.95	0.47
1:7:334:TYR:CD2	1:7:442:VAL:HG11	2.49	0.47
1:8:409:PRO:HG3	1:8:432:TYR:CE1	2.49	0.47
1:B:70:SER:O	1:B:504:ARG:NH2	2.48	0.47
1:B:217:TRP:O	1:B:236:LYS:HA	2.15	0.47
1:C:86:PHE:CG	1:C:87:PRO:HD2	2.49	0.47
1:C:334:TYR:CD2	1:C:442:VAL:HG11	2.49	0.47
1:D:193:TYR:CE2	1:P:326:ARG:HD3	2.50	0.47
1:D:241:ASP:N	1:D:241:ASP:OD1	2.48	0.47
1:D:457:LYS:HD2	1:D:479:PRO:HD3	1.96	0.47
1:E:226:PRO:C	1:E:228:GLN:H	2.21	0.47
1:F:283:SER:H	1:F:286:HIS:HD2	1.62	0.47
1:F:334:TYR:CD2	1:F:442:VAL:HG11	2.49	0.47
1:H:430:GLN:HE21	1:W:223:ILE:HD13	1.79	0.47
1:I:334:TYR:CD2	1:I:442:VAL:HG11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:430:GLN:HE21	1:L:223:ILE:HD13	1.79	0.47
1:J:457:LYS:HD2	1:J:479:PRO:HD3	1.96	0.47
1:K:85:ARG:HG3	1:K:99:ASN:ND2	2.29	0.47
1:K:334:TYR:CD2	1:K:442:VAL:HG11	2.49	0.47
1:M:334:TYR:CD2	1:M:442:VAL:HG11	2.49	0.47
1:M:457:LYS:HD2	1:M:479:PRO:HD3	1.96	0.47
1:O:86:PHE:CG	1:O:87:PRO:HD2	2.49	0.47
1:O:193:TYR:CE2	1:n:326:ARG:HD3	2.50	0.47
1:O:326:ARG:HD3	1:m:193:TYR:CE2	2.49	0.47
1:R:154:VAL:HG22	1:R:167:TYR:CE1	2.48	0.47
1:R:409:PRO:HG3	1:R:432:TYR:CE1	2.49	0.47
1:S:226:PRO:C	1:S:228:GLN:H	2.21	0.47
1:U:241:ASP:OD1	1:U:241:ASP:N	2.48	0.47
1:V:43:ASN:OD1	1:V:45:ARG:HG2	2.14	0.47
1:V:326:ARG:HD3	1:e:193:TYR:CE2	2.49	0.47
1:V:430:GLN:HE21	1:e:223:ILE:HD13	1.80	0.47
1:W:457:LYS:HD2	1:W:479:PRO:HD3	1.96	0.47
1:X:217:TRP:O	1:X:236:LYS:HA	2.15	0.47
1:Z:409:PRO:HG3	1:Z:432:TYR:CE1	2.49	0.47
1:a:154:VAL:CG2	1:a:167:TYR:CE1	2.97	0.47
1:a:283:SER:H	1:a:286:HIS:HD2	1.62	0.47
1:a:359:ALA:HB2	1:a:399:LEU:HD22	1.95	0.47
1:d:43:ASN:OD1	1:d:45:ARG:HG2	2.14	0.47
1:d:241:ASP:N	1:d:241:ASP:OD1	2.48	0.47
1:e:70:SER:O	1:e:504:ARG:NH2	2.48	0.47
1:f:193:TYR:CE2	1:g:326:ARG:HD3	2.49	0.47
1:g:86:PHE:CG	1:g:87:PRO:HD2	2.49	0.47
1:g:154:VAL:CG2	1:g:167:TYR:CE1	2.97	0.47
1:j:326:ARG:HD3	1:k:193:TYR:CE2	2.50	0.47
1:o:154:VAL:HG22	1:o:167:TYR:CE1	2.48	0.47
1:o:217:TRP:O	1:o:236:LYS:HA	2.15	0.47
1:o:314:TRP:CH2	1:o:327:VAL:HG23	2.48	0.47
1:o:457:LYS:HD2	1:o:479:PRO:HD3	1.97	0.47
1:q:334:TYR:CD2	1:q:442:VAL:HG11	2.49	0.47
1:q:409:PRO:HG3	1:q:432:TYR:CE1	2.49	0.47
1:t:86:PHE:CG	1:t:87:PRO:HD2	2.49	0.47
1:u:334:TYR:CD2	1:u:442:VAL:HG11	2.49	0.47
1:w:334:TYR:CD2	1:w:442:VAL:HG11	2.49	0.47
1:x:154:VAL:CG2	1:x:167:TYR:CE1	2.97	0.47
1:y:241:ASP:N	1:y:241:ASP:OD1	2.48	0.47
1:z:430:GLN:HE21	1:1:223:ILE:HD13	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:70:SER:O	1:1:504:ARG:NH2	2.48	0.47
1:1:359:ALA:HB2	1:1:399:LEU:HD22	1.95	0.47
1:2:43:ASN:OD1	1:2:45:ARG:HG2	2.14	0.47
1:2:457:LYS:HD2	1:2:479:PRO:HD3	1.96	0.47
1:3:154:VAL:CG2	1:3:167:TYR:CE1	2.97	0.47
1:3:217:TRP:O	1:3:236:LYS:HA	2.15	0.47
1:3:378:ILE:O	1:4:310:ASN:HB2	2.13	0.47
1:6:457:LYS:HD2	1:6:479:PRO:HD3	1.96	0.47
1:7:70:SER:O	1:7:504:ARG:NH2	2.48	0.47
1:7:156:LYS:HE3	1:7:165:THR:HG22	1.94	0.47
1:7:241:ASP:OD1	1:7:241:ASP:N	2.47	0.47
1:B:154:VAL:CG2	1:B:167:TYR:CE1	2.97	0.47
1:B:223:ILE:HD13	1:L:430:GLN:HE21	1.79	0.47
1:F:154:VAL:CG2	1:F:167:TYR:CE1	2.97	0.47
1:F:457:LYS:HD2	1:F:479:PRO:HD3	1.96	0.47
1:G:86:PHE:CG	1:G:87:PRO:HD2	2.49	0.47
1:H:490:ASN:O	1:H:505:ILE:N	2.37	0.47
1:J:43:ASN:OD1	1:J:45:ARG:HG2	2.15	0.47
1:K:314:TRP:CH2	1:K:327:VAL:HG23	2.49	0.47
1:R:241:ASP:OD1	1:R:241:ASP:N	2.48	0.47
1:S:283:SER:H	1:S:286:HIS:HD2	1.62	0.47
1:T:86:PHE:CG	1:T:87:PRO:HD2	2.49	0.47
1:U:409:PRO:HG3	1:U:432:TYR:CE1	2.49	0.47
1:W:359:ALA:HB2	1:W:399:LEU:HD22	1.96	0.47
1:X:314:TRP:CH2	1:X:327:VAL:HG23	2.49	0.47
1:X:334:TYR:CD2	1:X:442:VAL:HG11	2.49	0.47
1:X:359:ALA:HB2	1:X:399:LEU:HD22	1.96	0.47
1:Y:43:ASN:OD1	1:Y:45:ARG:HG2	2.14	0.47
1:Y:70:SER:O	1:Y:504:ARG:NH2	2.48	0.47
1:Y:241:ASP:N	1:Y:241:ASP:OD1	2.47	0.47
1:a:217:TRP:O	1:a:236:LYS:HA	2.15	0.47
1:a:430:GLN:HE21	1:8:223:ILE:HD13	1.80	0.47
1:b:85:ARG:HG3	1:b:99:ASN:ND2	2.28	0.47
1:b:217:TRP:O	1:b:236:LYS:HA	2.15	0.47
1:b:334:TYR:CD2	1:b:442:VAL:HG11	2.49	0.47
1:c:70:SER:O	1:c:504:ARG:NH2	2.48	0.47
1:f:334:TYR:CD2	1:f:442:VAL:HG11	2.49	0.47
1:g:43:ASN:OD1	1:g:45:ARG:HG2	2.14	0.47
1:h:457:LYS:HD2	1:h:479:PRO:HD3	1.96	0.47
1:j:86:PHE:CG	1:j:87:PRO:HD2	2.49	0.47
1:k:334:TYR:CD2	1:k:442:VAL:HG11	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:457:LYS:HD2	1:k:479:PRO:HD3	1.96	0.47
1:m:86:PHE:CG	1:m:87:PRO:HD2	2.49	0.47
1:m:326:ARG:HD3	1:n:193:TYR:CE2	2.49	0.47
1:p:43:ASN:OD1	1:p:45:ARG:HG2	2.14	0.47
1:p:226:PRO:C	1:p:228:GLN:H	2.21	0.47
1:q:241:ASP:N	1:q:241:ASP:OD1	2.48	0.47
1:q:363:THR:H	1:r:235:LYS:HZ1	1.61	0.47
1:q:457:LYS:HD2	1:q:479:PRO:HD3	1.96	0.47
1:r:326:ARG:HD3	1:s:193:TYR:CE2	2.50	0.47
1:s:241:ASP:OD1	1:s:241:ASP:N	2.48	0.47
1:t:334:TYR:CD2	1:t:442:VAL:HG11	2.49	0.47
1:u:86:PHE:CG	1:u:87:PRO:HD2	2.49	0.47
1:u:154:VAL:HG22	1:u:167:TYR:CE1	2.48	0.47
1:u:441:ALA:HB2	1:v:465:PRO:HG3	1.95	0.47
1:w:409:PRO:HG3	1:w:432:TYR:CE1	2.49	0.47
1:x:70:SER:O	1:x:504:ARG:NH2	2.48	0.47
1:y:154:VAL:CG2	1:y:167:TYR:CE1	2.97	0.47
1:y:334:TYR:CD2	1:y:442:VAL:HG11	2.49	0.47
1:y:457:LYS:HD2	1:y:479:PRO:HD3	1.96	0.47
1:z:217:TRP:O	1:z:236:LYS:HA	2.15	0.47
1:1:154:VAL:CG2	1:1:167:TYR:CE1	2.97	0.47
1:2:241:ASP:OD1	1:2:241:ASP:N	2.48	0.47
1:3:283:SER:H	1:3:286:HIS:HD2	1.62	0.47
1:4:85:ARG:HG3	1:4:99:ASN:ND2	2.29	0.47
1:5:430:GLN:HE21	1:6:223:ILE:HD13	1.80	0.47
1:7:43:ASN:OD1	1:7:45:ARG:HG2	2.14	0.47
1:B:86:PHE:CG	1:B:87:PRO:HD2	2.49	0.47
1:C:43:ASN:OD1	1:C:45:ARG:HG2	2.15	0.47
1:C:217:TRP:O	1:C:236:LYS:HA	2.15	0.47
1:D:334:TYR:CD2	1:D:442:VAL:HG11	2.49	0.47
1:D:430:GLN:HE21	1:N:223:ILE:HD13	1.79	0.47
1:E:217:TRP:O	1:E:236:LYS:HA	2.15	0.47
1:E:430:GLN:HE21	1:Q:223:ILE:HD13	1.79	0.47
1:F:70:SER:O	1:F:504:ARG:NH2	2.48	0.47
1:F:217:TRP:O	1:F:236:LYS:HA	2.15	0.47
1:F:359:ALA:HB2	1:F:399:LEU:HD22	1.96	0.47
1:G:326:ARG:HD3	1:I:193:TYR:CE2	2.49	0.47
1:H:86:PHE:CG	1:H:87:PRO:HD2	2.49	0.47
1:H:154:VAL:HG22	1:H:167:TYR:CE1	2.48	0.47
1:I:86:PHE:CG	1:I:87:PRO:HD2	2.49	0.47
1:I:217:TRP:O	1:I:236:LYS:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:457:LYS:HD2	1:I:479:PRO:HD3	1.96	0.47
1:J:241:ASP:OD1	1:J:241:ASP:N	2.48	0.47
1:K:43:ASN:OD1	1:K:45:ARG:HG2	2.14	0.47
1:K:154:VAL:CG2	1:K:167:TYR:CE1	2.97	0.47
1:L:217:TRP:O	1:L:236:LYS:HA	2.15	0.47
1:M:223:ILE:HD13	1:b:430:GLN:HE21	1.79	0.47
1:O:318:SER:HA	1:m:378:ILE:HD11	1.96	0.47
1:O:392:ASP:C	1:O:393:GLN:HG3	2.40	0.47
1:O:457:LYS:HD2	1:O:479:PRO:HD3	1.96	0.47
1:P:70:SER:O	1:P:504:ARG:NH2	2.48	0.47
1:P:86:PHE:CG	1:P:87:PRO:HD2	2.49	0.47
1:P:154:VAL:CG2	1:P:167:TYR:CE1	2.97	0.47
1:P:392:ASP:C	1:P:393:GLN:HG3	2.40	0.47
1:Q:43:ASN:OD1	1:Q:45:ARG:HG2	2.15	0.47
1:Q:70:SER:O	1:Q:504:ARG:NH2	2.48	0.47
1:Q:457:LYS:HD2	1:Q:479:PRO:HD3	1.96	0.47
1:R:457:LYS:HD2	1:R:479:PRO:HD3	1.96	0.47
1:S:70:SER:O	1:S:504:ARG:NH2	2.48	0.47
1:S:217:TRP:O	1:S:236:LYS:HA	2.15	0.47
1:S:318:SER:HA	1:U:378:ILE:HD11	1.96	0.47
1:T:193:TYR:CE2	1:l:326:ARG:HD3	2.50	0.47
1:T:430:GLN:HE21	1:d:223:ILE:HD13	1.79	0.47
1:U:70:SER:O	1:U:504:ARG:NH2	2.48	0.47
1:V:154:VAL:CG2	1:V:167:TYR:CE1	2.97	0.47
1:W:70:SER:O	1:W:504:ARG:NH2	2.48	0.47
1:W:86:PHE:CG	1:W:87:PRO:HD2	2.49	0.47
1:W:154:VAL:CG2	1:W:167:TYR:CE1	2.97	0.47
1:X:378:ILE:HD11	1:e:318:SER:HA	1.95	0.47
1:Y:359:ALA:HB2	1:Y:399:LEU:HD22	1.96	0.47
1:Z:75:TYR:OH	1:Z:249:GLU:OE1	2.22	0.47
1:Z:223:ILE:HD13	1:3:430:GLN:HE21	1.80	0.47
1:a:86:PHE:CG	1:a:87:PRO:HD2	2.49	0.47
1:b:392:ASP:C	1:b:393:GLN:HG3	2.40	0.47
1:c:193:TYR:CE2	1:p:326:ARG:HD3	2.49	0.47
1:c:241:ASP:OD1	1:c:241:ASP:N	2.47	0.47
1:c:318:SER:HA	1:o:378:ILE:HD11	1.95	0.47
1:d:70:SER:O	1:d:504:ARG:NH2	2.48	0.47
1:e:241:ASP:OD1	1:e:241:ASP:N	2.48	0.47
1:f:85:ARG:HG3	1:f:99:ASN:ND2	2.28	0.47
1:f:217:TRP:O	1:f:236:LYS:HA	2.15	0.47
1:f:363:THR:H	1:h:235:LYS:HZ1	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:392:ASP:C	1:f:393:GLN:HG3	2.40	0.47
1:i:223:ILE:HD13	1:k:430:GLN:HE21	1.80	0.47
1:j:154:VAL:CG2	1:j:167:TYR:CE1	2.97	0.47
1:j:334:TYR:CD2	1:j:442:VAL:HG11	2.49	0.47
1:j:392:ASP:C	1:j:393:GLN:HG3	2.40	0.47
1:l:85:ARG:HG3	1:l:99:ASN:ND2	2.28	0.47
1:l:392:ASP:C	1:l:393:GLN:HG3	2.40	0.47
1:l:457:LYS:HD2	1:l:479:PRO:HD3	1.96	0.47
1:n:70:SER:O	1:n:504:ARG:NH2	2.48	0.47
1:n:339:TRP:HA	1:n:339:TRP:HE3	1.76	0.47
1:o:318:SER:HA	1:p:378:ILE:HD11	1.96	0.47
1:o:334:TYR:CD2	1:o:442:VAL:HG11	2.49	0.47
1:p:154:VAL:CG2	1:p:167:TYR:CE1	2.97	0.47
1:q:465:PRO:HG3	1:s:441:ALA:HB2	1.95	0.47
1:r:70:SER:O	1:r:504:ARG:NH2	2.48	0.47
1:r:318:SER:HA	1:s:378:ILE:HD11	1.96	0.47
1:s:70:SER:O	1:s:504:ARG:NH2	2.48	0.47
1:s:409:PRO:HG3	1:s:432:TYR:CE1	2.49	0.47
1:t:223:ILE:HD13	1:v:430:GLN:HE21	1.79	0.47
1:t:326:ARG:HD3	1:u:193:TYR:CE2	2.49	0.47
1:u:154:VAL:CG2	1:u:167:TYR:CE1	2.97	0.47
1:u:217:TRP:O	1:u:236:LYS:HA	2.15	0.47
1:u:457:LYS:HD2	1:u:479:PRO:HD3	1.96	0.47
1:x:43:ASN:OD1	1:x:45:ARG:HG2	2.15	0.47
1:x:326:ARG:HD3	1:y:193:TYR:CE2	2.50	0.47
1:y:70:SER:O	1:y:504:ARG:NH2	2.48	0.47
1:y:283:SER:H	1:y:286:HIS:HD2	1.62	0.47
1:y:359:ALA:HB2	1:y:399:LEU:HD22	1.95	0.47
1:z:223:ILE:HD13	1:2:430:GLN:HE21	1.80	0.47
1:3:85:ARG:HG3	1:3:99:ASN:ND2	2.28	0.47
1:4:43:ASN:OD1	1:4:45:ARG:HG2	2.15	0.47
1:4:154:VAL:CG2	1:4:167:TYR:CE1	2.97	0.47
1:4:334:TYR:CD2	1:4:442:VAL:HG11	2.49	0.47
1:4:468:SER:OG	1:4:471:ALA:O	2.26	0.47
1:5:86:PHE:CG	1:5:87:PRO:HD2	2.49	0.47
1:5:154:VAL:HG22	1:5:167:TYR:CE1	2.48	0.47
1:5:457:LYS:HD2	1:5:479:PRO:HD3	1.96	0.47
1:6:70:SER:O	1:6:504:ARG:NH2	2.48	0.47
1:6:154:VAL:CG2	1:6:167:TYR:CE1	2.97	0.47
1:6:359:ALA:HB2	1:6:399:LEU:HD22	1.96	0.47
1:7:359:ALA:HB2	1:7:399:LEU:HD22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:86:PHE:CG	1:A:87:PRO:HD2	2.49	0.47
1:F:50:TYR:CD1	1:F:55:VAL:CG2	2.98	0.47
1:G:75:TYR:OH	1:G:249:GLU:OE1	2.22	0.47
1:G:283:SER:H	1:G:286:HIS:HD2	1.62	0.47
1:I:154:VAL:CG2	1:I:167:TYR:CE1	2.97	0.47
1:J:326:ARG:HD3	1:L:193:TYR:CE2	2.50	0.47
1:N:468:SER:OG	1:N:471:ALA:O	2.26	0.47
1:O:85:ARG:HG3	1:O:99:ASN:ND2	2.29	0.47
1:O:326:ARG:HD3	1:m:193:TYR:CZ	2.50	0.47
1:O:430:GLN:HE21	1:m:223:ILE:HD13	1.80	0.47
1:P:43:ASN:OD1	1:P:45:ARG:HG2	2.14	0.47
1:T:378:ILE:HD11	1:l:318:SER:HA	1.96	0.47
1:V:326:ARG:HD3	1:e:193:TYR:CZ	2.50	0.47
1:W:430:GLN:HE21	1:Y:223:ILE:HD13	1.79	0.47
1:Y:154:VAL:CG2	1:Y:167:TYR:CE1	2.98	0.47
1:Y:457:LYS:HD2	1:Y:479:PRO:HD3	1.96	0.47
1:Z:217:TRP:O	1:Z:236:LYS:HA	2.15	0.47
1:d:217:TRP:O	1:d:236:LYS:HA	2.15	0.47
1:d:226:PRO:C	1:d:228:GLN:H	2.21	0.47
1:f:193:TYR:CZ	1:g:326:ARG:HD3	2.50	0.47
1:g:217:TRP:O	1:g:236:LYS:HA	2.15	0.47
1:i:154:VAL:CG2	1:i:167:TYR:CE1	2.97	0.47
1:i:392:ASP:C	1:i:393:GLN:HG3	2.40	0.47
1:j:43:ASN:OD1	1:j:45:ARG:HG2	2.15	0.47
1:j:70:SER:O	1:j:504:ARG:NH2	2.48	0.47
1:m:430:GLN:HE21	1:n:223:ILE:HD13	1.80	0.47
1:n:226:PRO:C	1:n:228:GLN:H	2.21	0.47
1:r:217:TRP:O	1:r:236:LYS:HA	2.15	0.47
1:t:75:TYR:OH	1:t:249:GLU:OE1	2.22	0.47
1:w:217:TRP:O	1:w:236:LYS:HA	2.15	0.47
1:w:378:ILE:HD11	1:y:318:SER:HA	1.95	0.47
1:y:50:TYR:CD1	1:y:55:VAL:CG2	2.98	0.47
1:y:86:PHE:CG	1:y:87:PRO:HD2	2.49	0.47
1:y:217:TRP:O	1:y:236:LYS:HA	2.15	0.47
1:z:193:TYR:CE2	1:2:326:ARG:HD3	2.50	0.47
1:1:86:PHE:CG	1:1:87:PRO:HD2	2.49	0.47
1:2:70:SER:O	1:2:504:ARG:NH2	2.48	0.47
1:3:50:TYR:CD1	1:3:55:VAL:CG2	2.98	0.47
1:3:86:PHE:CG	1:3:87:PRO:HD2	2.49	0.47
1:5:50:TYR:CD1	1:5:55:VAL:CG2	2.98	0.47
1:6:430:GLN:HE21	1:7:223:ILE:HD13	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:468:SER:OG	1:6:471:ALA:O	2.26	0.47
1:8:217:TRP:O	1:8:236:LYS:HA	2.15	0.47
1:8:457:LYS:HD2	1:8:479:PRO:HD3	1.96	0.47
1:A:193:TYR:CE2	1:I:326:ARG:HD3	2.50	0.47
1:A:363:THR:H	1:G:235:LYS:HZ1	1.61	0.47
1:C:359:ALA:HB2	1:C:399:LEU:HD22	1.95	0.47
1:C:470:HIS:HB3	1:M:329:ASN:OD1	2.15	0.47
1:E:43:ASN:OD1	1:E:45:ARG:HG2	2.15	0.47
1:F:86:PHE:CG	1:F:87:PRO:HD2	2.49	0.47
1:H:50:TYR:CD1	1:H:55:VAL:CG2	2.98	0.47
1:H:217:TRP:O	1:H:236:LYS:HA	2.15	0.47
1:H:392:ASP:C	1:H:393:GLN:HG3	2.40	0.47
1:H:457:LYS:HD2	1:H:479:PRO:HD3	1.96	0.47
1:I:50:TYR:CD1	1:I:55:VAL:CG2	2.98	0.47
1:J:70:SER:O	1:J:504:ARG:NH2	2.48	0.47
1:M:70:SER:O	1:M:504:ARG:NH2	2.48	0.47
1:N:154:VAL:CG2	1:N:167:TYR:CE1	2.98	0.47
1:N:217:TRP:O	1:N:236:LYS:HA	2.15	0.47
1:N:392:ASP:C	1:N:393:GLN:HG3	2.40	0.47
1:O:43:ASN:OD1	1:O:45:ARG:HG2	2.15	0.47
1:R:70:SER:O	1:R:504:ARG:NH2	2.48	0.47
1:R:318:SER:HA	1:S:378:ILE:HD11	1.96	0.47
1:S:86:PHE:CG	1:S:87:PRO:HD2	2.49	0.47
1:T:193:TYR:CZ	1:l:326:ARG:HD3	2.50	0.47
1:T:223:ILE:HD13	1:l:430:GLN:HE21	1.80	0.47
1:T:392:ASP:C	1:T:393:GLN:HG3	2.40	0.47
1:U:359:ALA:HB2	1:U:399:LEU:HD22	1.95	0.47
1:V:193:TYR:CE2	1:X:326:ARG:HD3	2.50	0.47
1:X:370:THR:HA	1:X:395:TRP:HZ2	1.80	0.47
1:Z:154:VAL:CG2	1:Z:167:TYR:CE1	2.97	0.47
1:Z:457:LYS:HD2	1:Z:479:PRO:HD3	1.96	0.47
1:a:50:TYR:CD1	1:a:55:VAL:CG2	2.98	0.47
1:a:70:SER:O	1:a:504:ARG:NH2	2.48	0.47
1:b:70:SER:O	1:b:504:ARG:NH2	2.48	0.47
1:c:193:TYR:CZ	1:p:326:ARG:HD3	2.50	0.47
1:d:430:GLN:HE21	1:l:223:ILE:HD13	1.80	0.47
1:f:370:THR:HA	1:f:395:TRP:HZ2	1.80	0.47
1:g:359:ALA:HB2	1:g:399:LEU:HD22	1.96	0.47
1:h:392:ASP:C	1:h:393:GLN:HG3	2.40	0.47
1:i:468:SER:OG	1:i:471:ALA:O	2.26	0.47
1:n:217:TRP:O	1:n:236:LYS:HA	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:326:ARG:HD3	1:p:193:TYR:CE2	2.50	0.47
1:q:70:SER:O	1:q:504:ARG:NH2	2.48	0.47
1:q:318:SER:HA	1:r:378:ILE:HD11	1.96	0.47
1:s:359:ALA:HB2	1:s:399:LEU:HD22	1.96	0.47
1:t:283:SER:H	1:t:286:HIS:HD2	1.62	0.47
1:t:326:ARG:HD3	1:u:193:TYR:CZ	2.50	0.47
1:u:50:TYR:CD1	1:u:55:VAL:CG2	2.98	0.47
1:v:50:TYR:CD1	1:v:55:VAL:CG2	2.98	0.47
1:v:86:PHE:CG	1:v:87:PRO:HD2	2.49	0.47
1:x:457:LYS:HD2	1:x:479:PRO:HD3	1.96	0.47
1:3:70:SER:O	1:3:504:ARG:NH2	2.48	0.47
1:3:73:GLU:OE1	1:3:486:LYS:NZ	2.41	0.47
1:4:226:PRO:C	1:4:228:GLN:H	2.21	0.47
1:6:86:PHE:CG	1:6:87:PRO:HD2	2.49	0.47
1:6:326:ARG:HD3	1:7:193:TYR:CE2	2.49	0.47
1:7:154:VAL:CG2	1:7:167:TYR:CE1	2.98	0.47
1:7:457:LYS:HD2	1:7:479:PRO:HD3	1.96	0.47
1:8:154:VAL:CG2	1:8:167:TYR:CE1	2.97	0.47
1:8:283:SER:H	1:8:286:HIS:HD2	1.62	0.47
1:A:50:TYR:CD1	1:A:55:VAL:CG2	2.98	0.47
1:A:154:VAL:CG2	1:A:167:TYR:CE1	2.97	0.47
1:A:430:GLN:HE21	1:G:223:ILE:HD13	1.79	0.47
1:C:70:SER:O	1:C:504:ARG:NH2	2.48	0.47
1:E:326:ARG:HD3	1:Q:193:TYR:CZ	2.50	0.47
1:E:326:ARG:HD3	1:Q:193:TYR:CE2	2.49	0.47
1:K:86:PHE:CG	1:K:87:PRO:HD2	2.49	0.47
1:K:468:SER:OG	1:K:471:ALA:O	2.26	0.47
1:L:50:TYR:CD1	1:L:55:VAL:CG2	2.98	0.47
1:M:241:ASP:OD1	1:M:241:ASP:N	2.48	0.47
1:N:70:SER:O	1:N:504:ARG:NH2	2.48	0.47
1:P:334:TYR:CD2	1:P:442:VAL:HG11	2.49	0.47
1:R:193:TYR:CZ	1:U:326:ARG:HD3	2.50	0.47
1:R:326:ARG:HD3	1:S:193:TYR:CZ	2.50	0.47
1:S:50:TYR:CD1	1:S:55:VAL:CG2	2.98	0.47
1:S:73:GLU:OE1	1:S:486:LYS:NZ	2.41	0.47
1:T:217:TRP:O	1:T:236:LYS:HA	2.15	0.47
1:T:441:ALA:HB2	1:d:465:PRO:HG3	1.95	0.47
1:U:43:ASN:OD1	1:U:45:ARG:HG2	2.15	0.47
1:V:378:ILE:HD11	1:X:318:SER:HA	1.96	0.47
1:W:370:THR:HA	1:W:395:TRP:HZ2	1.80	0.47
1:X:50:TYR:CD1	1:X:55:VAL:CG2	2.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:70:SER:O	1:X:504:ARG:NH2	2.48	0.47
1:Z:193:TYR:CE2	1:3:326:ARG:HD3	2.50	0.47
1:Z:283:SER:H	1:Z:286:HIS:HD2	1.62	0.47
1:a:85:ARG:HG3	1:a:99:ASN:ND2	2.29	0.47
1:b:370:THR:HA	1:b:395:TRP:HZ2	1.80	0.47
1:f:70:SER:O	1:f:504:ARG:NH2	2.48	0.47
1:f:223:ILE:HD13	1:g:430:GLN:HE21	1.79	0.47
1:f:430:GLN:HE21	1:h:223:ILE:HD13	1.80	0.47
1:g:193:TYR:CE2	1:h:326:ARG:HD3	2.50	0.47
1:h:70:SER:O	1:h:504:ARG:NH2	2.48	0.47
1:i:70:SER:O	1:i:504:ARG:NH2	2.48	0.47
1:i:217:TRP:O	1:i:236:LYS:HA	2.15	0.47
1:j:154:VAL:HG22	1:j:167:TYR:CE1	2.48	0.47
1:k:217:TRP:O	1:k:236:LYS:HA	2.15	0.47
1:l:370:THR:HA	1:l:395:TRP:HZ2	1.80	0.47
1:m:392:ASP:C	1:m:393:GLN:HG3	2.40	0.47
1:o:370:THR:HA	1:o:395:TRP:HZ2	1.80	0.47
1:q:326:ARG:HD3	1:r:193:TYR:CZ	2.50	0.47
1:q:370:THR:HA	1:q:395:TRP:HZ2	1.80	0.47
1:r:50:TYR:CD1	1:r:55:VAL:CG2	2.98	0.47
1:r:73:GLU:OE1	1:r:486:LYS:NZ	2.41	0.47
1:s:43:ASN:OD1	1:s:45:ARG:HG2	2.15	0.47
1:s:86:PHE:CG	1:s:87:PRO:HD2	2.49	0.47
1:t:70:SER:O	1:t:504:ARG:NH2	2.48	0.47
1:u:310:ASN:HB2	1:v:378:ILE:O	2.14	0.47
1:v:154:VAL:CG2	1:v:167:TYR:CE1	2.97	0.47
1:w:43:ASN:OD1	1:w:45:ARG:HG2	2.15	0.47
1:y:154:VAL:HG22	1:y:167:TYR:CE1	2.48	0.47
1:z:50:TYR:CD1	1:z:55:VAL:CG2	2.98	0.47
1:4:86:PHE:CG	1:4:87:PRO:HD2	2.49	0.47
1:5:217:TRP:O	1:5:236:LYS:HA	2.15	0.47
1:5:392:ASP:C	1:5:393:GLN:HG3	2.40	0.47
1:6:370:THR:HA	1:6:395:TRP:HZ2	1.80	0.47
1:A:95:ARG:HG3	1:I:421:VAL:CG1	2.46	0.46
1:B:241:ASP:OD1	1:B:241:ASP:N	2.48	0.46
1:C:421:VAL:CG1	1:b:95:ARG:HG3	2.44	0.46
1:D:50:TYR:CD1	1:D:55:VAL:CG2	2.98	0.46
1:D:217:TRP:O	1:D:236:LYS:HA	2.15	0.46
1:E:86:PHE:CG	1:E:87:PRO:HD2	2.49	0.46
1:E:223:ILE:HD13	1:F:430:GLN:HE21	1.79	0.46
1:F:154:VAL:HG22	1:F:167:TYR:CE1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:70:SER:O	1:G:504:ARG:NH2	2.48	0.46
1:G:154:VAL:CG2	1:G:167:TYR:CE1	2.97	0.46
1:G:217:TRP:O	1:G:236:LYS:HA	2.15	0.46
1:I:455:TRP:CD1	1:I:480:PRO:HD2	2.51	0.46
1:J:50:TYR:CD1	1:J:55:VAL:CG2	2.98	0.46
1:K:217:TRP:O	1:K:236:LYS:HA	2.15	0.46
1:L:86:PHE:CG	1:L:87:PRO:HD2	2.49	0.46
1:M:392:ASP:C	1:M:393:GLN:HG3	2.40	0.46
1:N:455:TRP:CD1	1:N:480:PRO:HD2	2.50	0.46
1:O:223:ILE:HD13	1:n:430:GLN:HE21	1.80	0.46
1:O:370:THR:HA	1:O:395:TRP:HZ2	1.80	0.46
1:P:154:VAL:HG22	1:P:167:TYR:CE1	2.48	0.46
1:R:370:THR:HA	1:R:395:TRP:HZ2	1.80	0.46
1:S:326:ARG:HD3	1:U:193:TYR:CZ	2.50	0.46
1:X:241:ASP:OD1	1:X:241:ASP:N	2.48	0.46
1:b:241:ASP:OD1	1:b:241:ASP:N	2.48	0.46
1:b:455:TRP:CD1	1:b:480:PRO:HD2	2.51	0.46
1:f:241:ASP:N	1:f:241:ASP:OD1	2.48	0.46
1:f:455:TRP:CD1	1:f:480:PRO:HD2	2.51	0.46
1:g:70:SER:O	1:g:504:ARG:NH2	2.48	0.46
1:g:378:ILE:HD11	1:h:318:SER:HA	1.96	0.46
1:g:392:ASP:C	1:g:393:GLN:HG3	2.40	0.46
1:h:241:ASP:OD1	1:h:241:ASP:N	2.48	0.46
1:i:455:TRP:CD1	1:i:480:PRO:HD2	2.50	0.46
1:k:50:TYR:CD1	1:k:55:VAL:CG2	2.98	0.46
1:l:43:ASN:OD1	1:l:45:ARG:HG2	2.15	0.46
1:l:217:TRP:O	1:l:236:LYS:HA	2.15	0.46
1:m:217:TRP:O	1:m:236:LYS:HA	2.15	0.46
1:o:70:SER:O	1:o:504:ARG:NH2	2.48	0.46
1:o:241:ASP:N	1:o:241:ASP:OD1	2.47	0.46
1:o:326:ARG:HD3	1:p:193:TYR:CZ	2.50	0.46
1:o:363:THR:H	1:p:235:LYS:HZ1	1.62	0.46
1:q:193:TYR:CZ	1:s:326:ARG:HD3	2.50	0.46
1:r:86:PHE:CG	1:r:87:PRO:HD2	2.49	0.46
1:t:154:VAL:CG2	1:t:167:TYR:CE1	2.97	0.46
1:u:430:GLN:HE21	1:v:223:ILE:HD13	1.80	0.46
1:u:455:TRP:CD1	1:u:480:PRO:HD2	2.50	0.46
1:w:154:VAL:HG22	1:w:167:TYR:CE1	2.48	0.46
1:w:326:ARG:HD3	1:x:193:TYR:CZ	2.50	0.46
1:1:326:ARG:HD3	1:2:193:TYR:CZ	2.50	0.46
1:4:217:TRP:O	1:4:236:LYS:HA	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:455:TRP:CD1	1:6:480:PRO:HD2	2.50	0.46
1:B:326:ARG:HD3	1:J:193:TYR:CZ	2.51	0.46
1:D:85:ARG:HG3	1:D:99:ASN:ND2	2.29	0.46
1:D:370:THR:HA	1:D:395:TRP:HZ2	1.80	0.46
1:E:50:TYR:CD1	1:E:55:VAL:CG2	2.98	0.46
1:E:70:SER:O	1:E:504:ARG:NH2	2.48	0.46
1:E:154:VAL:HG22	1:E:167:TYR:CE1	2.48	0.46
1:E:329:ASN:OD1	1:Q:470:HIS:HB3	2.16	0.46
1:F:95:ARG:HG3	1:Q:421:VAL:CG1	2.45	0.46
1:K:50:TYR:CD1	1:K:55:VAL:CG2	2.98	0.46
1:K:378:ILE:HD11	1:8:318:SER:HA	1.96	0.46
1:L:43:ASN:OD1	1:L:45:ARG:HG2	2.15	0.46
1:L:70:SER:O	1:L:504:ARG:NH2	2.48	0.46
1:L:370:THR:HA	1:L:395:TRP:HZ2	1.80	0.46
1:M:50:TYR:CD1	1:M:55:VAL:CG2	2.98	0.46
1:N:318:SER:HA	1:P:378:ILE:HD11	1.95	0.46
1:O:217:TRP:O	1:O:236:LYS:HA	2.15	0.46
1:R:50:TYR:CD1	1:R:55:VAL:CG2	2.98	0.46
1:R:455:TRP:CD1	1:R:480:PRO:HD2	2.50	0.46
1:U:86:PHE:CG	1:U:87:PRO:HD2	2.49	0.46
1:U:217:TRP:O	1:U:236:LYS:HA	2.15	0.46
1:U:468:SER:OG	1:U:471:ALA:O	2.26	0.46
1:V:70:SER:O	1:V:504:ARG:NH2	2.48	0.46
1:V:193:TYR:CZ	1:X:326:ARG:HD3	2.50	0.46
1:W:326:ARG:HD3	1:Y:193:TYR:CE2	2.50	0.46
1:W:455:TRP:CD1	1:W:480:PRO:HD2	2.51	0.46
1:X:86:PHE:CG	1:X:87:PRO:HD2	2.49	0.46
1:Y:85:ARG:HG3	1:Y:99:ASN:ND2	2.29	0.46
1:Z:193:TYR:CZ	1:3:326:ARG:HD3	2.50	0.46
1:a:326:ARG:HD3	1:8:193:TYR:CE2	2.50	0.46
1:a:326:ARG:HD3	1:8:193:TYR:CZ	2.50	0.46
1:c:50:TYR:CD1	1:c:55:VAL:CG2	2.98	0.46
1:e:50:TYR:CD1	1:e:55:VAL:CG2	2.98	0.46
1:e:370:THR:HA	1:e:395:TRP:HZ2	1.80	0.46
1:k:370:THR:HA	1:k:395:TRP:HZ2	1.80	0.46
1:k:392:ASP:C	1:k:393:GLN:HG3	2.40	0.46
1:m:441:ALA:HB2	1:n:465:PRO:HG3	1.95	0.46
1:n:370:THR:HA	1:n:395:TRP:HZ2	1.80	0.46
1:n:392:ASP:C	1:n:393:GLN:HG3	2.40	0.46
1:n:455:TRP:CD1	1:n:480:PRO:HD2	2.51	0.46
1:o:50:TYR:CD1	1:o:55:VAL:CG2	2.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:86:PHE:CG	1:o:87:PRO:HD2	2.49	0.46
1:o:392:ASP:C	1:o:393:GLN:HG3	2.40	0.46
1:p:70:SER:O	1:p:504:ARG:NH2	2.48	0.46
1:q:455:TRP:CD1	1:q:480:PRO:HD2	2.50	0.46
1:s:217:TRP:O	1:s:236:LYS:HA	2.15	0.46
1:t:235:LYS:HZ1	1:v:363:THR:H	1.62	0.46
1:u:43:ASN:OD1	1:u:45:ARG:HG2	2.14	0.46
1:u:326:ARG:HD3	1:v:193:TYR:CZ	2.50	0.46
1:u:547:LEU:HD21	1:1:530:ASN:ND2	2.30	0.46
1:w:50:TYR:CD1	1:w:55:VAL:CG2	2.98	0.46
1:w:70:SER:O	1:w:504:ARG:NH2	2.48	0.46
1:w:86:PHE:CG	1:w:87:PRO:HD2	2.49	0.46
1:w:326:ARG:HD3	1:x:193:TYR:CE2	2.49	0.46
1:w:455:TRP:CD1	1:w:480:PRO:HD2	2.50	0.46
1:w:457:LYS:HD2	1:w:479:PRO:HD3	1.96	0.46
1:x:421:VAL:CG1	1:y:95:ARG:HG3	2.45	0.46
1:z:70:SER:O	1:z:504:ARG:NH2	2.48	0.46
1:z:86:PHE:CG	1:z:87:PRO:HD2	2.49	0.46
1:z:370:THR:HA	1:z:395:TRP:HZ2	1.80	0.46
1:1:283:SER:H	1:1:286:HIS:HD2	1.62	0.46
1:1:326:ARG:HD3	1:2:193:TYR:CE2	2.50	0.46
1:2:50:TYR:CD1	1:2:55:VAL:CG2	2.98	0.46
1:2:392:ASP:C	1:2:393:GLN:HG3	2.40	0.46
1:6:217:TRP:O	1:6:236:LYS:HA	2.15	0.46
1:A:326:ARG:HD3	1:G:193:TYR:CZ	2.50	0.46
1:A:392:ASP:C	1:A:393:GLN:HG3	2.40	0.46
1:B:370:THR:HA	1:B:395:TRP:HZ2	1.80	0.46
1:C:340:ARG:NH2	1:M:431:ASP:OD2	2.48	0.46
1:C:392:ASP:C	1:C:393:GLN:HG3	2.40	0.46
1:C:457:LYS:HD2	1:C:479:PRO:HD3	1.96	0.46
1:D:70:SER:O	1:D:504:ARG:NH2	2.48	0.46
1:D:193:TYR:CZ	1:P:326:ARG:HD3	2.51	0.46
1:D:359:ALA:HB2	1:D:399:LEU:HD22	1.95	0.46
1:D:363:THR:H	1:N:235:LYS:HZ1	1.63	0.46
1:E:455:TRP:CD1	1:E:480:PRO:HD2	2.51	0.46
1:G:363:THR:H	1:I:235:LYS:HZ1	1.63	0.46
1:H:326:ARG:HD3	1:W:193:TYR:CZ	2.51	0.46
1:H:378:ILE:HD11	1:Y:318:SER:HA	1.95	0.46
1:K:226:PRO:C	1:K:228:GLN:H	2.21	0.46
1:K:241:ASP:N	1:K:241:ASP:OD1	2.48	0.46
1:K:326:ARG:HD3	1:a:193:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:457:LYS:HD2	1:L:479:PRO:HD3	1.96	0.46
1:M:283:SER:H	1:M:286:HIS:HD2	1.62	0.46
1:O:334:TYR:CD2	1:O:442:VAL:HG11	2.49	0.46
1:Q:86:PHE:CG	1:Q:87:PRO:HD2	2.49	0.46
1:S:430:GLN:HE21	1:U:223:ILE:HD13	1.79	0.46
1:T:43:ASN:OD1	1:T:45:ARG:HG2	2.14	0.46
1:V:241:ASP:N	1:V:241:ASP:OD1	2.47	0.46
1:W:217:TRP:O	1:W:236:LYS:HA	2.15	0.46
1:X:392:ASP:C	1:X:393:GLN:HG3	2.40	0.46
1:c:370:THR:HA	1:c:395:TRP:HZ2	1.80	0.46
1:d:370:THR:HA	1:d:395:TRP:HZ2	1.80	0.46
1:d:392:ASP:C	1:d:393:GLN:HG3	2.40	0.46
1:d:455:TRP:CD1	1:d:480:PRO:HD2	2.51	0.46
1:g:457:LYS:HD2	1:g:479:PRO:HD3	1.96	0.46
1:h:50:TYR:CD1	1:h:55:VAL:CG2	2.98	0.46
1:h:283:SER:H	1:h:286:HIS:HD2	1.62	0.46
1:i:318:SER:HA	1:j:378:ILE:HD11	1.95	0.46
1:i:370:THR:HA	1:i:395:TRP:HZ2	1.80	0.46
1:k:43:ASN:OD1	1:k:45:ARG:HG2	2.15	0.46
1:k:85:ARG:HG3	1:k:99:ASN:ND2	2.29	0.46
1:k:359:ALA:HB2	1:k:399:LEU:HD22	1.96	0.46
1:l:334:TYR:CD2	1:l:442:VAL:HG11	2.49	0.46
1:m:43:ASN:OD1	1:m:45:ARG:HG2	2.14	0.46
1:n:457:LYS:HD2	1:n:479:PRO:HD3	1.96	0.46
1:p:241:ASP:OD1	1:p:241:ASP:N	2.48	0.46
1:p:455:TRP:CD1	1:p:480:PRO:HD2	2.51	0.46
1:q:283:SER:H	1:q:286:HIS:HD2	1.62	0.46
1:r:326:ARG:HD3	1:s:193:TYR:CZ	2.50	0.46
1:t:50:TYR:CD1	1:t:55:VAL:CG2	2.98	0.46
1:t:217:TRP:O	1:t:236:LYS:HA	2.15	0.46
1:w:283:SER:H	1:w:286:HIS:HD2	1.62	0.46
1:x:86:PHE:CG	1:x:87:PRO:HD2	2.49	0.46
1:z:457:LYS:HD2	1:z:479:PRO:HD3	1.96	0.46
1:1:241:ASP:N	1:1:241:ASP:OD1	2.48	0.46
1:1:370:THR:HA	1:1:395:TRP:HZ2	1.80	0.46
1:2:154:VAL:HG22	1:2:167:TYR:CE1	2.48	0.46
1:5:326:ARG:HD3	1:6:193:TYR:CZ	2.50	0.46
1:5:378:ILE:HD11	1:7:318:SER:HA	1.96	0.46
1:7:85:ARG:HG3	1:7:99:ASN:ND2	2.29	0.46
1:A:192:MET:O	1:A:193:TYR:HB2	2.16	0.46
1:B:193:TYR:CZ	1:L:326:ARG:HD3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:SER:H	1:B:286:HIS:HD2	1.62	0.46
1:B:326:ARG:HD3	1:J:193:TYR:CE2	2.50	0.46
1:C:455:TRP:CD1	1:C:480:PRO:HD2	2.50	0.46
1:E:193:TYR:CE2	1:F:326:ARG:HD3	2.50	0.46
1:F:455:TRP:CD1	1:F:480:PRO:HD2	2.51	0.46
1:G:50:TYR:CD1	1:G:55:VAL:CG2	2.98	0.46
1:G:326:ARG:HD3	1:I:193:TYR:CZ	2.50	0.46
1:G:430:GLN:HE21	1:I:223:ILE:HD13	1.79	0.46
1:G:455:TRP:CD1	1:G:480:PRO:HD2	2.51	0.46
1:H:326:ARG:HD3	1:W:193:TYR:CE2	2.50	0.46
1:I:43:ASN:OD1	1:I:45:ARG:HG2	2.15	0.46
1:I:192:MET:O	1:I:193:TYR:HB2	2.16	0.46
1:I:392:ASP:C	1:I:393:GLN:HG3	2.40	0.46
1:J:154:VAL:HG22	1:J:167:TYR:CE1	2.48	0.46
1:J:392:ASP:C	1:J:393:GLN:HG3	2.40	0.46
1:K:359:ALA:HB2	1:K:399:LEU:HD22	1.95	0.46
1:N:43:ASN:OD1	1:N:45:ARG:HG2	2.14	0.46
1:P:241:ASP:OD1	1:P:241:ASP:N	2.48	0.46
1:R:283:SER:H	1:R:286:HIS:HD2	1.62	0.46
1:T:70:SER:O	1:T:504:ARG:NH2	2.48	0.46
1:T:154:VAL:HG22	1:T:167:TYR:CE1	2.48	0.46
1:U:85:ARG:HG3	1:U:99:ASN:ND2	2.29	0.46
1:U:154:VAL:HG22	1:U:167:TYR:CE1	2.48	0.46
1:U:457:LYS:HD2	1:U:479:PRO:HD3	1.96	0.46
1:V:455:TRP:CD1	1:V:480:PRO:HD2	2.51	0.46
1:Z:43:ASN:OD1	1:Z:45:ARG:HG2	2.15	0.46
1:Z:318:SER:HA	1:4:378:ILE:HD11	1.96	0.46
1:Z:392:ASP:C	1:Z:393:GLN:HG3	2.40	0.46
1:a:392:ASP:C	1:a:393:GLN:HG3	2.40	0.46
1:a:455:TRP:CD1	1:a:480:PRO:HD2	2.51	0.46
1:c:430:GLN:HE21	1:o:223:ILE:HD13	1.79	0.46
1:d:50:TYR:CD1	1:d:55:VAL:CG2	2.98	0.46
1:d:283:SER:H	1:d:286:HIS:HD2	1.62	0.46
1:d:457:LYS:HD2	1:d:479:PRO:HD3	1.96	0.46
1:g:455:TRP:CD1	1:g:480:PRO:HD2	2.51	0.46
1:j:326:ARG:HD3	1:k:193:TYR:CZ	2.51	0.46
1:k:70:SER:O	1:k:504:ARG:NH2	2.48	0.46
1:l:70:SER:O	1:l:504:ARG:NH2	2.48	0.46
1:l:192:MET:O	1:l:193:TYR:HB2	2.16	0.46
1:m:70:SER:O	1:m:504:ARG:NH2	2.48	0.46
1:m:154:VAL:HG22	1:m:167:TYR:CE1	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:50:TYR:CD1	1:n:55:VAL:CG2	2.98	0.46
1:o:430:GLN:HE21	1:p:223:ILE:HD13	1.80	0.46
1:p:192:MET:O	1:p:193:TYR:HB2	2.16	0.46
1:q:50:TYR:CD1	1:q:55:VAL:CG2	2.98	0.46
1:r:430:GLN:HE21	1:s:223:ILE:HD13	1.79	0.46
1:s:85:ARG:HG3	1:s:99:ASN:ND2	2.29	0.46
1:t:73:GLU:OE1	1:t:486:LYS:NZ	2.41	0.46
1:t:455:TRP:CD1	1:t:480:PRO:HD2	2.51	0.46
1:u:370:THR:HA	1:u:395:TRP:HZ2	1.80	0.46
1:u:392:ASP:C	1:u:393:GLN:HG3	2.40	0.46
1:w:223:ILE:HD13	1:y:430:GLN:HE21	1.80	0.46
1:w:370:THR:HA	1:w:395:TRP:HZ2	1.80	0.46
1:y:455:TRP:CD1	1:y:480:PRO:HD2	2.51	0.46
1:z:43:ASN:OD1	1:z:45:ARG:HG2	2.15	0.46
1:z:75:TYR:OH	1:z:249:GLU:OE1	2.22	0.46
1:z:326:ARG:HD3	1:1:193:TYR:CZ	2.50	0.46
1:z:470:HIS:HB3	1:2:329:ASN:OD1	2.16	0.46
1:1:50:TYR:CD1	1:1:55:VAL:CG2	2.98	0.46
1:3:193:TYR:CZ	1:4:326:ARG:HD3	2.50	0.46
1:3:392:ASP:C	1:3:393:GLN:HG3	2.40	0.46
1:4:50:TYR:CD1	1:4:55:VAL:CG2	2.98	0.46
1:4:359:ALA:HB2	1:4:399:LEU:HD22	1.96	0.46
1:5:70:SER:O	1:5:504:ARG:NH2	2.48	0.46
1:B:50:TYR:CD1	1:B:55:VAL:CG2	2.98	0.46
1:B:430:GLN:HE21	1:J:223:ILE:HD13	1.79	0.46
1:C:547:LEU:HD21	1:L:530:ASN:ND2	2.30	0.46
1:D:43:ASN:OD1	1:D:45:ARG:HG2	2.14	0.46
1:D:326:ARG:HD3	1:N:193:TYR:CZ	2.50	0.46
1:D:392:ASP:C	1:D:393:GLN:HG3	2.40	0.46
1:E:192:MET:O	1:E:193:TYR:HB2	2.16	0.46
1:E:283:SER:H	1:E:286:HIS:HD2	1.62	0.46
1:E:370:THR:HA	1:E:395:TRP:HZ2	1.80	0.46
1:E:457:LYS:HD2	1:E:479:PRO:HD3	1.96	0.46
1:F:396:GLN:OE1	1:F:448:GLN:HG2	2.16	0.46
1:H:70:SER:O	1:H:504:ARG:NH2	2.48	0.46
1:H:192:MET:O	1:H:193:TYR:HB2	2.16	0.46
1:I:70:SER:O	1:I:504:ARG:NH2	2.48	0.46
1:K:223:ILE:HD13	1:8:430:GLN:HE21	1.80	0.46
1:L:455:TRP:CD1	1:L:480:PRO:HD2	2.50	0.46
1:N:50:TYR:CD1	1:N:55:VAL:CG2	2.98	0.46
1:N:370:THR:HA	1:N:395:TRP:HZ2	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:70:SER:O	1:O:504:ARG:NH2	2.48	0.46
1:Q:392:ASP:C	1:Q:393:GLN:HG3	2.40	0.46
1:S:192:MET:O	1:S:193:TYR:HB2	2.16	0.46
1:V:192:MET:O	1:V:193:TYR:HB2	2.16	0.46
1:V:223:ILE:HD13	1:X:430:GLN:HE21	1.80	0.46
1:V:470:HIS:HB3	1:X:329:ASN:OD1	2.16	0.46
1:W:241:ASP:N	1:W:241:ASP:OD1	2.48	0.46
1:W:392:ASP:C	1:W:393:GLN:HG3	2.40	0.46
1:Y:192:MET:O	1:Y:193:TYR:HB2	2.16	0.46
1:Z:430:GLN:HE21	1:4:223:ILE:HD13	1.80	0.46
1:c:329:ASN:OD1	1:o:470:HIS:HB3	2.16	0.46
1:i:43:ASN:OD1	1:i:45:ARG:HG2	2.14	0.46
1:i:193:TYR:CZ	1:k:326:ARG:HD3	2.50	0.46
1:i:241:ASP:N	1:i:241:ASP:OD1	2.47	0.46
1:j:241:ASP:N	1:j:241:ASP:OD1	2.47	0.46
1:m:455:TRP:CD1	1:m:480:PRO:HD2	2.51	0.46
1:o:329:ASN:OD1	1:p:470:HIS:HB3	2.16	0.46
1:p:217:TRP:O	1:p:236:LYS:HA	2.15	0.46
1:p:370:THR:HA	1:p:395:TRP:HZ2	1.80	0.46
1:q:235:LYS:HZ1	1:s:363:THR:H	1.62	0.46
1:r:329:ASN:OD1	1:s:470:HIS:HB3	2.16	0.46
1:s:154:VAL:CG2	1:s:167:TYR:CE1	2.97	0.46
1:s:457:LYS:HD2	1:s:479:PRO:HD3	1.97	0.46
1:t:192:MET:O	1:t:193:TYR:HB2	2.16	0.46
1:u:192:MET:O	1:u:193:TYR:HB2	2.16	0.46
1:v:392:ASP:C	1:v:393:GLN:HG3	2.40	0.46
1:w:193:TYR:CE2	1:y:326:ARG:HD3	2.50	0.46
1:x:217:TRP:O	1:x:236:LYS:HA	2.15	0.46
1:y:396:GLN:OE1	1:y:448:GLN:HG2	2.16	0.46
1:z:455:TRP:CD1	1:z:480:PRO:HD2	2.50	0.46
1:1:392:ASP:C	1:1:393:GLN:HG3	2.40	0.46
1:1:455:TRP:CD1	1:1:480:PRO:HD2	2.51	0.46
1:3:455:TRP:CD1	1:3:480:PRO:HD2	2.51	0.46
1:4:70:SER:O	1:4:504:ARG:NH2	2.48	0.46
1:4:241:ASP:N	1:4:241:ASP:OD1	2.48	0.46
1:5:192:MET:O	1:5:193:TYR:HB2	2.16	0.46
1:7:217:TRP:O	1:7:236:LYS:HA	2.15	0.46
1:8:43:ASN:OD1	1:8:45:ARG:HG2	2.15	0.46
1:8:70:SER:O	1:8:504:ARG:NH2	2.48	0.46
1:8:392:ASP:C	1:8:393:GLN:HG3	2.40	0.46
1:A:329:ASN:OD1	1:G:470:HIS:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:392:ASP:C	1:B:393:GLN:HG3	2.40	0.46
1:B:455:TRP:CD1	1:B:480:PRO:HD2	2.50	0.46
1:C:431:ASP:OD2	1:b:340:ARG:NH2	2.49	0.46
1:D:192:MET:O	1:D:193:TYR:HB2	2.16	0.46
1:G:192:MET:O	1:G:193:TYR:HB2	2.16	0.46
1:H:396:GLN:OE1	1:H:448:GLN:HG2	2.16	0.46
1:I:370:THR:HA	1:I:395:TRP:HZ2	1.80	0.46
1:J:326:ARG:HD3	1:L:193:TYR:CZ	2.51	0.46
1:J:329:ASN:OD1	1:L:470:HIS:HB3	2.16	0.46
1:K:392:ASP:C	1:K:393:GLN:HG3	2.40	0.46
1:K:457:LYS:HD2	1:K:479:PRO:HD3	1.96	0.46
1:M:192:MET:O	1:M:193:TYR:HB2	2.16	0.46
1:M:283:SER:O	1:M:287:THR:OG1	2.30	0.46
1:O:192:MET:O	1:O:193:TYR:HB2	2.16	0.46
1:O:470:HIS:HB3	1:n:329:ASN:OD1	2.16	0.46
1:R:192:MET:O	1:R:193:TYR:HB2	2.16	0.46
1:S:329:ASN:OD1	1:U:470:HIS:HB3	2.16	0.46
1:T:455:TRP:CD1	1:T:480:PRO:HD2	2.51	0.46
1:U:154:VAL:CG2	1:U:167:TYR:CE1	2.97	0.46
1:U:455:TRP:CD1	1:U:480:PRO:HD2	2.50	0.46
1:V:217:TRP:O	1:V:236:LYS:HA	2.15	0.46
1:X:470:HIS:HB3	1:e:329:ASN:OD1	2.16	0.46
1:Y:217:TRP:O	1:Y:236:LYS:HA	2.15	0.46
1:Y:455:TRP:CD1	1:Y:480:PRO:HD2	2.50	0.46
1:a:370:THR:HA	1:a:395:TRP:HZ2	1.80	0.46
1:d:329:ASN:OD1	1:l:470:HIS:HB3	2.16	0.46
1:g:223:ILE:HD13	1:h:430:GLN:HE21	1.80	0.46
1:g:396:GLN:OE1	1:g:448:GLN:HG2	2.16	0.46
1:h:192:MET:O	1:h:193:TYR:HB2	2.16	0.46
1:h:370:THR:HA	1:h:395:TRP:HZ2	1.80	0.46
1:i:50:TYR:CD1	1:i:55:VAL:CG2	2.98	0.46
1:k:192:MET:O	1:k:193:TYR:HB2	2.16	0.46
1:q:217:TRP:O	1:q:236:LYS:HA	2.15	0.46
1:r:192:MET:O	1:r:193:TYR:HB2	2.16	0.46
1:s:154:VAL:HG22	1:s:167:TYR:CE1	2.48	0.46
1:s:455:TRP:CD1	1:s:480:PRO:HD2	2.51	0.46
1:s:468:SER:OG	1:s:471:ALA:O	2.26	0.46
1:t:193:TYR:CZ	1:v:326:ARG:HD3	2.51	0.46
1:u:70:SER:O	1:u:504:ARG:NH2	2.48	0.46
1:v:192:MET:O	1:v:193:TYR:HB2	2.16	0.46
1:w:192:MET:O	1:w:193:TYR:HB2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:329:ASN:OD1	1:x:470:HIS:HB3	2.16	0.46
1:x:392:ASP:C	1:x:393:GLN:HG3	2.40	0.46
1:z:193:TYR:CZ	1:2:326:ARG:HD3	2.50	0.46
1:1:430:GLN:HE21	1:2:223:ILE:HD13	1.79	0.46
1:4:392:ASP:C	1:4:393:GLN:HG3	2.40	0.46
1:5:283:SER:H	1:5:286:HIS:HD2	1.62	0.46
1:5:326:ARG:HD3	1:6:193:TYR:CE2	2.50	0.46
1:5:396:GLN:OE1	1:5:448:GLN:HG2	2.16	0.46
1:6:392:ASP:C	1:6:393:GLN:HG3	2.40	0.46
1:7:192:MET:O	1:7:193:TYR:HB2	2.16	0.46
1:7:455:TRP:CD1	1:7:480:PRO:HD2	2.50	0.46
1:A:455:TRP:CD1	1:A:480:PRO:HD2	2.51	0.46
1:C:396:GLN:OE1	1:C:448:GLN:HG2	2.16	0.46
1:G:329:ASN:OD1	1:I:470:HIS:HB3	2.16	0.46
1:J:85:ARG:HG3	1:J:99:ASN:ND2	2.29	0.46
1:K:70:SER:O	1:K:504:ARG:NH2	2.48	0.46
1:M:43:ASN:OD1	1:M:45:ARG:HG2	2.15	0.46
1:M:370:THR:HA	1:M:395:TRP:HZ2	1.80	0.46
1:N:241:ASP:N	1:N:241:ASP:OD1	2.47	0.46
1:O:455:TRP:CD1	1:O:480:PRO:HD2	2.50	0.46
1:Q:50:TYR:CD1	1:Q:55:VAL:CG2	2.98	0.46
1:Q:217:TRP:O	1:Q:236:LYS:HA	2.15	0.46
1:S:370:THR:HA	1:S:395:TRP:HZ2	1.80	0.46
1:V:370:THR:HA	1:V:395:TRP:HZ2	1.80	0.46
1:X:223:ILE:HD13	1:e:430:GLN:HE21	1.80	0.46
1:Z:70:SER:O	1:Z:504:ARG:NH2	2.48	0.46
1:Z:241:ASP:OD1	1:Z:241:ASP:N	2.47	0.46
1:b:192:MET:O	1:b:193:TYR:HB2	2.16	0.46
1:c:217:TRP:O	1:c:236:LYS:HA	2.15	0.46
1:e:392:ASP:C	1:e:393:GLN:HG3	2.40	0.46
1:h:43:ASN:OD1	1:h:45:ARG:HG2	2.15	0.46
1:k:455:TRP:CD1	1:k:480:PRO:HD2	2.51	0.46
1:l:50:TYR:CD1	1:l:55:VAL:CG2	2.98	0.46
1:n:283:SER:H	1:n:286:HIS:HD2	1.62	0.46
1:t:329:ASN:OD1	1:u:470:HIS:HB3	2.16	0.46
1:t:392:ASP:C	1:t:393:GLN:HG3	2.40	0.46
1:x:50:TYR:CD1	1:x:55:VAL:CG2	2.98	0.46
1:z:329:ASN:OD1	1:1:470:HIS:HB3	2.16	0.46
1:3:370:THR:HA	1:3:395:TRP:HZ2	1.80	0.46
1:4:457:LYS:HD2	1:4:479:PRO:HD3	1.96	0.46
1:5:43:ASN:OD1	1:5:45:ARG:HG2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:223:ILE:HD13	1:7:430:GLN:HE21	1.80	0.46
1:6:241:ASP:N	1:6:241:ASP:OD1	2.48	0.46
1:7:50:TYR:CD1	1:7:55:VAL:CG2	2.98	0.46
1:B:396:GLN:OE1	1:B:448:GLN:HG2	2.16	0.46
1:D:455:TRP:CD1	1:D:480:PRO:HD2	2.51	0.46
1:G:392:ASP:C	1:G:393:GLN:HG3	2.40	0.46
1:H:43:ASN:OD1	1:H:45:ARG:HG2	2.15	0.46
1:H:193:TYR:CZ	1:Y:326:ARG:HD3	2.50	0.46
1:H:223:ILE:HD13	1:Y:430:GLN:HE21	1.80	0.46
1:H:283:SER:H	1:H:286:HIS:HD2	1.62	0.46
1:H:455:TRP:CD1	1:H:480:PRO:HD2	2.51	0.46
1:J:312:TRP:HB3	1:J:327:VAL:HG11	1.98	0.46
1:J:455:TRP:CD1	1:J:480:PRO:HD2	2.51	0.46
1:K:329:ASN:OD1	1:a:470:HIS:HB3	2.16	0.46
1:K:370:THR:HA	1:K:395:TRP:HZ2	1.80	0.46
1:M:396:GLN:OE1	1:M:448:GLN:HG2	2.16	0.46
1:O:50:TYR:CD1	1:O:55:VAL:CG2	2.98	0.46
1:O:193:TYR:CZ	1:n:326:ARG:HD3	2.50	0.46
1:P:50:TYR:CD1	1:P:55:VAL:CG2	2.98	0.46
1:P:396:GLN:OE1	1:P:448:GLN:HG2	2.16	0.46
1:R:217:TRP:O	1:R:236:LYS:HA	2.15	0.46
1:T:192:MET:O	1:T:193:TYR:HB2	2.16	0.46
1:T:326:ARG:HD3	1:d:193:TYR:CZ	2.50	0.46
1:T:457:LYS:HD2	1:T:479:PRO:HD3	1.96	0.46
1:U:396:GLN:OE1	1:U:448:GLN:HG2	2.16	0.46
1:V:329:ASN:OD1	1:e:470:HIS:HB3	2.16	0.46
1:V:396:GLN:OE1	1:V:448:GLN:HG2	2.16	0.46
1:W:326:ARG:HD3	1:Y:193:TYR:CZ	2.50	0.46
1:Y:50:TYR:CD1	1:Y:55:VAL:CG2	2.98	0.46
1:Z:326:ARG:HD3	1:4:193:TYR:CZ	2.50	0.46
1:a:396:GLN:OE1	1:a:448:GLN:HG2	2.16	0.46
1:b:50:TYR:CD1	1:b:55:VAL:CG2	2.98	0.46
1:c:470:HIS:HB3	1:p:329:ASN:OD1	2.16	0.46
1:d:326:ARG:HD3	1:l:193:TYR:CZ	2.50	0.46
1:e:217:TRP:O	1:e:236:LYS:HA	2.15	0.46
1:g:50:TYR:CD1	1:g:55:VAL:CG2	2.98	0.46
1:g:193:TYR:CZ	1:h:326:ARG:HD3	2.50	0.46
1:h:283:SER:O	1:h:287:THR:OG1	2.30	0.46
1:i:396:GLN:OE1	1:i:448:GLN:HG2	2.16	0.46
1:j:50:TYR:CD1	1:j:55:VAL:CG2	2.98	0.46
1:k:283:SER:H	1:k:286:HIS:HD2	1.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:312:TRP:HB3	1:l:327:VAL:HG11	1.98	0.46
1:l:455:TRP:CD1	1:l:480:PRO:HD2	2.51	0.46
1:m:192:MET:O	1:m:193:TYR:HB2	2.16	0.46
1:m:241:ASP:OD1	1:m:241:ASP:N	2.48	0.46
1:m:326:ARG:HD3	1:n:193:TYR:CZ	2.50	0.46
1:m:457:LYS:HD2	1:m:479:PRO:HD3	1.96	0.46
1:n:396:GLN:OE1	1:n:448:GLN:HG2	2.16	0.46
1:q:192:MET:O	1:q:193:TYR:HB2	2.16	0.46
1:r:370:THR:HA	1:r:395:TRP:HZ2	1.80	0.46
1:r:455:TRP:CD1	1:r:480:PRO:HD2	2.51	0.46
1:u:241:ASP:OD1	1:u:241:ASP:N	2.48	0.46
1:v:217:TRP:O	1:v:236:LYS:HA	2.15	0.46
1:v:455:TRP:CD1	1:v:480:PRO:HD2	2.51	0.46
1:y:85:ARG:HG3	1:y:99:ASN:ND2	2.28	0.46
1:1:283:SER:O	1:1:287:THR:OG1	2.30	0.46
1:1:396:GLN:OE1	1:1:448:GLN:HG2	2.16	0.46
1:2:455:TRP:CD1	1:2:480:PRO:HD2	2.51	0.46
1:3:396:GLN:OE1	1:3:448:GLN:HG2	2.16	0.46
1:5:455:TRP:CD1	1:5:480:PRO:HD2	2.51	0.46
1:6:326:ARG:HD3	1:7:193:TYR:CZ	2.51	0.46
1:B:470:HIS:HB3	1:L:329:ASN:OD1	2.16	0.46
1:C:50:TYR:CD1	1:C:55:VAL:CG2	2.98	0.46
1:E:392:ASP:C	1:E:393:GLN:HG3	2.40	0.46
1:F:85:ARG:HG3	1:F:99:ASN:ND2	2.29	0.46
1:I:241:ASP:N	1:I:241:ASP:OD1	2.48	0.46
1:K:430:GLN:HE21	1:a:223:ILE:HD13	1.80	0.46
1:K:470:HIS:HB3	1:8:329:ASN:OD1	2.16	0.46
1:L:73:GLU:OE1	1:L:486:LYS:NZ	2.41	0.46
1:M:193:TYR:CZ	1:b:326:ARG:HD3	2.50	0.46
1:M:455:TRP:CD1	1:M:480:PRO:HD2	2.51	0.46
1:N:396:GLN:OE1	1:N:448:GLN:HG2	2.16	0.46
1:O:312:TRP:HB3	1:O:327:VAL:HG11	1.98	0.46
1:Q:370:THR:HA	1:Q:395:TRP:HZ2	1.80	0.46
1:S:392:ASP:C	1:S:393:GLN:HG3	2.40	0.46
1:S:396:GLN:OE1	1:S:448:GLN:HG2	2.16	0.46
1:S:455:TRP:CD1	1:S:480:PRO:HD2	2.51	0.46
1:T:241:ASP:N	1:T:241:ASP:OD1	2.48	0.46
1:T:396:GLN:OE1	1:T:448:GLN:HG2	2.16	0.46
1:Y:370:THR:HA	1:Y:395:TRP:HZ2	1.80	0.46
1:Z:329:ASN:OD1	1:4:470:HIS:HB3	2.16	0.46
1:b:396:GLN:OE1	1:b:448:GLN:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:396:GLN:OE1	1:d:448:GLN:HG2	2.16	0.46
1:f:50:TYR:CD1	1:f:55:VAL:CG2	2.98	0.46
1:f:192:MET:O	1:f:193:TYR:HB2	2.16	0.46
1:f:396:GLN:OE1	1:f:448:GLN:HG2	2.16	0.46
1:f:457:LYS:HD2	1:f:479:PRO:HD3	1.96	0.46
1:h:396:GLN:OE1	1:h:448:GLN:HG2	2.16	0.46
1:j:396:GLN:OE1	1:j:448:GLN:HG2	2.16	0.46
1:m:396:GLN:OE1	1:m:448:GLN:HG2	2.16	0.46
1:o:192:MET:O	1:o:193:TYR:HB2	2.16	0.46
1:o:455:TRP:CD1	1:o:480:PRO:HD2	2.50	0.46
1:r:241:ASP:N	1:r:241:ASP:OD1	2.47	0.46
1:r:392:ASP:C	1:r:393:GLN:HG3	2.40	0.46
1:s:50:TYR:CD1	1:s:55:VAL:CG2	2.98	0.46
1:t:370:THR:HA	1:t:395:TRP:HZ2	1.80	0.46
1:w:235:LYS:HZ1	1:y:363:THR:H	1.63	0.46
1:w:392:ASP:C	1:w:393:GLN:HG3	2.40	0.46
1:2:85:ARG:HG3	1:2:99:ASN:ND2	2.29	0.46
1:2:312:TRP:HB3	1:2:327:VAL:HG11	1.98	0.46
1:3:223:ILE:HD13	1:4:430:GLN:HE21	1.79	0.46
1:3:470:HIS:HB3	1:4:329:ASN:OD1	2.16	0.46
1:5:193:TYR:CZ	1:7:326:ARG:HD3	2.50	0.46
1:7:370:THR:HA	1:7:395:TRP:HZ2	1.80	0.46
1:8:241:ASP:OD1	1:8:241:ASP:N	2.48	0.46
1:A:70:SER:O	1:A:504:ARG:NH2	2.48	0.46
1:A:217:TRP:O	1:A:236:LYS:HA	2.15	0.46
1:C:241:ASP:N	1:C:241:ASP:OD1	2.48	0.46
1:D:223:ILE:HD13	1:P:430:GLN:HE21	1.80	0.46
1:D:283:SER:H	1:D:286:HIS:HD2	1.62	0.46
1:E:193:TYR:CZ	1:F:326:ARG:HD3	2.50	0.46
1:F:392:ASP:C	1:F:393:GLN:HG3	2.40	0.46
1:J:396:GLN:OE1	1:J:448:GLN:HG2	2.16	0.46
1:K:193:TYR:CZ	1:8:326:ARG:HD3	2.50	0.46
1:O:241:ASP:N	1:O:241:ASP:OD1	2.47	0.46
1:O:283:SER:O	1:O:287:THR:OG1	2.30	0.46
1:R:392:ASP:C	1:R:393:GLN:HG3	2.40	0.46
1:R:396:GLN:OE1	1:R:448:GLN:HG2	2.16	0.46
1:U:192:MET:O	1:U:193:TYR:HB2	2.16	0.46
1:U:370:THR:HA	1:U:395:TRP:HZ2	1.80	0.46
1:V:392:ASP:C	1:V:393:GLN:HG3	2.40	0.46
1:X:192:MET:O	1:X:193:TYR:HB2	2.16	0.46
1:X:193:TYR:CZ	1:e:326:ARG:HD3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:50:TYR:CD1	1:Z:55:VAL:CG2	2.98	0.46
1:h:455:TRP:CD1	1:h:480:PRO:HD2	2.51	0.46
1:i:326:ARG:HD3	1:j:193:TYR:CZ	2.50	0.46
1:j:455:TRP:CD1	1:j:480:PRO:HD2	2.51	0.46
1:l:241:ASP:N	1:l:241:ASP:OD1	2.48	0.46
1:p:50:TYR:CD1	1:p:55:VAL:CG2	2.98	0.46
1:p:85:ARG:HG3	1:p:99:ASN:ND2	2.29	0.46
1:p:396:GLN:OE1	1:p:448:GLN:HG2	2.16	0.46
1:q:396:GLN:OE1	1:q:448:GLN:HG2	2.16	0.46
1:r:396:GLN:OE1	1:r:448:GLN:HG2	2.16	0.46
1:s:396:GLN:OE1	1:s:448:GLN:HG2	2.16	0.46
1:t:470:HIS:HB3	1:v:329:ASN:OD1	2.16	0.46
1:1:154:VAL:HG22	1:1:167:TYR:CE1	2.48	0.46
1:1:192:MET:O	1:1:193:TYR:HB2	2.16	0.46
1:4:396:GLN:OE1	1:4:448:GLN:HG2	2.16	0.46
1:F:370:THR:HA	1:F:395:TRP:HZ2	1.80	0.45
1:G:370:THR:HA	1:G:395:TRP:HZ2	1.80	0.45
1:P:370:THR:HA	1:P:395:TRP:HZ2	1.80	0.45
1:Q:455:TRP:CD1	1:Q:480:PRO:HD2	2.51	0.45
1:R:470:HIS:HB3	1:U:329:ASN:OD1	2.16	0.45
1:T:312:TRP:HB3	1:T:327:VAL:HG11	1.98	0.45
1:U:50:TYR:CD1	1:U:55:VAL:CG2	2.98	0.45
1:V:50:TYR:CD1	1:V:55:VAL:CG2	2.98	0.45
1:W:50:TYR:CD1	1:W:55:VAL:CG2	2.98	0.45
1:W:468:SER:OG	1:W:471:ALA:O	2.26	0.45
1:X:85:ARG:HG3	1:X:99:ASN:ND2	2.28	0.45
1:X:455:TRP:CD1	1:X:480:PRO:HD2	2.50	0.45
1:Y:312:TRP:HB3	1:Y:327:VAL:HG11	1.98	0.45
1:a:192:MET:O	1:a:193:TYR:HB2	2.16	0.45
1:b:457:LYS:HD2	1:b:479:PRO:HD3	1.96	0.45
1:f:326:ARG:HD3	1:h:193:TYR:CZ	2.50	0.45
1:i:329:ASN:OD1	1:j:470:HIS:HB3	2.16	0.45
1:j:430:GLN:HE21	1:k:223:ILE:HD13	1.80	0.45
1:l:283:SER:O	1:l:287:THR:OG1	2.30	0.45
1:m:370:THR:HA	1:m:395:TRP:HZ2	1.80	0.45
1:p:392:ASP:C	1:p:393:GLN:HG3	2.40	0.45
1:q:470:HIS:HB3	1:s:329:ASN:OD1	2.16	0.45
1:s:192:MET:O	1:s:193:TYR:HB2	2.16	0.45
1:v:70:SER:O	1:v:504:ARG:NH2	2.48	0.45
1:x:396:GLN:OE1	1:x:448:GLN:HG2	2.16	0.45
1:x:455:TRP:CD1	1:x:480:PRO:HD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:312:TRP:HB3	1:y:327:VAL:HG11	1.98	0.45
1:y:370:THR:HA	1:y:395:TRP:HZ2	1.80	0.45
1:2:396:GLN:OE1	1:2:448:GLN:HG2	2.16	0.45
1:4:370:THR:HA	1:4:395:TRP:HZ2	1.80	0.45
1:6:50:TYR:CD1	1:6:55:VAL:CG2	2.98	0.45
1:6:396:GLN:OE1	1:6:448:GLN:HG2	2.16	0.45
1:7:312:TRP:HB3	1:7:327:VAL:HG11	1.98	0.45
1:B:192:MET:O	1:B:193:TYR:HB2	2.16	0.45
1:F:312:TRP:HB3	1:F:327:VAL:HG11	1.98	0.45
1:J:192:MET:O	1:J:193:TYR:HB2	2.16	0.45
1:K:396:GLN:OE1	1:K:448:GLN:HG2	2.16	0.45
1:N:326:ARG:HD3	1:P:193:TYR:CZ	2.50	0.45
1:N:329:ASN:OD1	1:P:470:HIS:HB3	2.16	0.45
1:P:455:TRP:CD1	1:P:480:PRO:HD2	2.51	0.45
1:Q:241:ASP:N	1:Q:241:ASP:OD1	2.48	0.45
1:Q:396:GLN:OE1	1:Q:448:GLN:HG2	2.16	0.45
1:S:241:ASP:OD1	1:S:241:ASP:N	2.48	0.45
1:T:370:THR:HA	1:T:395:TRP:HZ2	1.80	0.45
1:W:396:GLN:OE1	1:W:448:GLN:HG2	2.16	0.45
1:a:241:ASP:N	1:a:241:ASP:OD1	2.48	0.45
1:c:326:ARG:HD3	1:o:193:TYR:CZ	2.50	0.45
1:c:455:TRP:CD1	1:c:480:PRO:HD2	2.51	0.45
1:e:455:TRP:CD1	1:e:480:PRO:HD2	2.51	0.45
1:f:329:ASN:OD1	1:h:470:HIS:HB3	2.16	0.45
1:g:241:ASP:N	1:g:241:ASP:OD1	2.48	0.45
1:j:370:THR:HA	1:j:395:TRP:HZ2	1.80	0.45
1:l:396:GLN:OE1	1:l:448:GLN:HG2	2.16	0.45
1:m:312:TRP:HB3	1:m:327:VAL:HG11	1.98	0.45
1:q:392:ASP:C	1:q:393:GLN:HG3	2.40	0.45
1:s:370:THR:HA	1:s:395:TRP:HZ2	1.80	0.45
1:t:430:GLN:HE21	1:u:223:ILE:HD13	1.80	0.45
1:w:396:GLN:OE1	1:w:448:GLN:HG2	2.16	0.45
1:x:241:ASP:OD1	1:x:241:ASP:N	2.48	0.45
1:x:370:THR:HA	1:x:395:TRP:HZ2	1.80	0.45
1:3:192:MET:O	1:3:193:TYR:HB2	2.16	0.45
1:7:392:ASP:C	1:7:393:GLN:HG3	2.40	0.45
1:8:50:TYR:CD1	1:8:55:VAL:CG2	2.98	0.45
1:A:192:MET:HG3	1:I:326:ARG:NH2	2.30	0.45
1:C:192:MET:O	1:C:193:TYR:HB2	2.16	0.45
1:D:103:HIS:HE1	1:D:105:GLN:OE1	2.00	0.45
1:D:470:HIS:HB3	1:P:329:ASN:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:396:GLN:OE1	1:G:448:GLN:HG2	2.16	0.45
1:G:457:LYS:HD2	1:G:479:PRO:HD3	1.96	0.45
1:L:192:MET:O	1:L:193:TYR:HB2	2.16	0.45
1:L:241:ASP:N	1:L:241:ASP:OD1	2.48	0.45
1:O:396:GLN:OE1	1:O:448:GLN:HG2	2.16	0.45
1:T:470:HIS:HB3	1:l:329:ASN:OD1	2.16	0.45
1:V:85:ARG:HG3	1:V:99:ASN:ND2	2.29	0.45
1:Y:154:VAL:HG22	1:Y:167:TYR:CE1	2.48	0.45
1:Y:392:ASP:C	1:Y:393:GLN:HG3	2.40	0.45
1:Z:455:TRP:CD1	1:Z:480:PRO:HD2	2.51	0.45
1:g:192:MET:O	1:g:193:TYR:HB2	2.16	0.45
1:k:73:GLU:OE1	1:k:486:LYS:NZ	2.41	0.45
1:k:103:HIS:HE1	1:k:105:GLN:OE1	2.00	0.45
1:m:50:TYR:CD1	1:m:55:VAL:CG2	2.98	0.45
1:w:193:TYR:CZ	1:y:326:ARG:HD3	2.51	0.45
1:x:312:TRP:HB3	1:x:327:VAL:HG11	1.98	0.45
1:y:392:ASP:C	1:y:393:GLN:HG3	2.40	0.45
1:z:73:GLU:OE1	1:z:486:LYS:NZ	2.41	0.45
1:2:192:MET:O	1:2:193:TYR:HB2	2.16	0.45
1:5:370:THR:HA	1:5:395:TRP:HZ2	1.80	0.45
1:8:192:MET:O	1:8:193:TYR:HB2	2.16	0.45
1:8:396:GLN:OE1	1:8:448:GLN:HG2	2.16	0.45
1:B:154:VAL:HG22	1:B:167:TYR:CE1	2.48	0.45
1:D:396:GLN:OE1	1:D:448:GLN:HG2	2.16	0.45
1:E:396:GLN:OE1	1:E:448:GLN:HG2	2.16	0.45
1:H:312:TRP:HB3	1:H:327:VAL:HG11	1.98	0.45
1:Q:192:MET:O	1:Q:193:TYR:HB2	2.16	0.45
1:Q:312:TRP:HB3	1:Q:327:VAL:HG11	1.98	0.45
1:R:103:HIS:HE1	1:R:105:GLN:OE1	2.00	0.45
1:T:50:TYR:CD1	1:T:55:VAL:CG2	2.98	0.45
1:X:396:GLN:OE1	1:X:448:GLN:HG2	2.16	0.45
1:Y:396:GLN:OE1	1:Y:448:GLN:HG2	2.16	0.45
1:Z:192:MET:O	1:Z:193:TYR:HB2	2.16	0.45
1:Z:396:GLN:OE1	1:Z:448:GLN:HG2	2.16	0.45
1:j:192:MET:O	1:j:193:TYR:HB2	2.16	0.45
1:k:396:GLN:OE1	1:k:448:GLN:HG2	2.16	0.45
1:o:85:ARG:HG3	1:o:99:ASN:ND2	2.29	0.45
1:q:103:HIS:HE1	1:q:105:GLN:OE1	2.00	0.45
1:t:396:GLN:OE1	1:t:448:GLN:HG2	2.16	0.45
1:t:457:LYS:HD2	1:t:479:PRO:HD3	1.97	0.45
1:w:103:HIS:HE1	1:w:105:GLN:OE1	2.00	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:192:MET:O	1:z:193:TYR:HB2	2.16	0.45
1:3:241:ASP:N	1:3:241:ASP:OD1	2.48	0.45
1:5:312:TRP:HB3	1:5:327:VAL:HG11	1.98	0.45
1:8:455:TRP:CD1	1:8:480:PRO:HD2	2.51	0.45
1:D:73:GLU:OE1	1:D:486:LYS:NZ	2.41	0.45
1:E:103:HIS:HE1	1:E:105:GLN:OE1	2.00	0.45
1:H:103:HIS:HE1	1:H:105:GLN:OE1	2.00	0.45
1:P:192:MET:O	1:P:193:TYR:HB2	2.16	0.45
1:U:103:HIS:HE1	1:U:105:GLN:OE1	2.00	0.45
1:X:103:HIS:HE1	1:X:105:GLN:OE1	2.00	0.45
1:Z:370:THR:HA	1:Z:395:TRP:HZ2	1.80	0.45
1:e:396:GLN:OE1	1:e:448:GLN:HG2	2.16	0.45
1:g:470:HIS:HB3	1:h:329:ASN:OD1	2.16	0.45
1:k:283:SER:O	1:k:287:THR:OG1	2.30	0.45
1:o:396:GLN:OE1	1:o:448:GLN:HG2	2.16	0.45
1:z:241:ASP:N	1:z:241:ASP:OD1	2.48	0.45
1:6:329:ASN:OD1	1:7:470:HIS:HB3	2.16	0.45
1:7:154:VAL:HG22	1:7:167:TYR:CE1	2.48	0.45
1:C:370:THR:HA	1:C:395:TRP:HZ2	1.80	0.45
1:F:103:HIS:HE1	1:F:105:GLN:OE1	2.00	0.45
1:H:85:ARG:HG3	1:H:99:ASN:ND2	2.29	0.45
1:K:192:MET:O	1:K:193:TYR:HB2	2.16	0.45
1:M:217:TRP:O	1:M:236:LYS:HA	2.15	0.45
1:M:470:HIS:HB3	1:b:329:ASN:OD1	2.16	0.45
1:N:103:HIS:HE1	1:N:105:GLN:OE1	2.00	0.45
1:Q:92:LEU:O	1:Q:95:ARG:HG2	2.17	0.45
1:U:392:ASP:C	1:U:393:GLN:HG3	2.40	0.45
1:W:92:LEU:O	1:W:95:ARG:HG2	2.17	0.45
1:W:329:ASN:OD1	1:Y:470:HIS:HB3	2.16	0.45
1:b:103:HIS:HE1	1:b:105:GLN:OE1	2.00	0.45
1:c:66:HIS:HD2	1:c:206:LYS:NZ	2.15	0.45
1:c:92:LEU:O	1:c:95:ARG:HG2	2.17	0.45
1:c:192:MET:O	1:c:193:TYR:HB2	2.16	0.45
1:c:392:ASP:C	1:c:393:GLN:HG3	2.40	0.45
1:c:396:GLN:OE1	1:c:448:GLN:HG2	2.16	0.45
1:d:312:TRP:HB3	1:d:327:VAL:HG11	1.98	0.45
1:e:92:LEU:O	1:e:95:ARG:HG2	2.17	0.45
1:e:192:MET:O	1:e:193:TYR:HB2	2.16	0.45
1:f:103:HIS:HE1	1:f:105:GLN:OE1	2.00	0.45
1:i:103:HIS:HE1	1:i:105:GLN:OE1	2.00	0.45
1:j:329:ASN:OD1	1:k:470:HIS:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:103:HIS:HE1	1:o:105:GLN:OE1	2.00	0.45
1:s:103:HIS:HE1	1:s:105:GLN:OE1	2.00	0.45
1:s:392:ASP:C	1:s:393:GLN:HG3	2.40	0.45
1:w:241:ASP:N	1:w:241:ASP:OD1	2.48	0.45
1:y:103:HIS:HE1	1:y:105:GLN:OE1	2.00	0.45
1:z:66:HIS:HD2	1:z:206:LYS:NZ	2.15	0.45
1:5:103:HIS:HE1	1:5:105:GLN:OE1	2.00	0.45
1:6:92:LEU:O	1:6:95:ARG:HG2	2.17	0.45
1:A:370:THR:HA	1:A:395:TRP:HZ2	1.80	0.45
1:A:396:GLN:OE1	1:A:448:GLN:HG2	2.16	0.45
1:B:103:HIS:HE1	1:B:105:GLN:OE1	2.00	0.45
1:C:329:ASN:ND2	1:b:456:THR:OG1	2.50	0.45
1:E:241:ASP:OD1	1:E:241:ASP:N	2.48	0.45
1:H:329:ASN:OD1	1:W:470:HIS:HB3	2.16	0.45
1:I:103:HIS:HE1	1:I:105:GLN:OE1	2.00	0.45
1:K:86:PHE:CD1	1:K:87:PRO:HD2	2.52	0.45
1:L:66:HIS:HD2	1:L:206:LYS:NZ	2.15	0.45
1:N:192:MET:O	1:N:193:TYR:HB2	2.16	0.45
1:N:450:PRO:HB2	1:N:451:TRP:CD2	2.52	0.45
1:O:329:ASN:OD1	1:m:470:HIS:HB3	2.16	0.45
1:R:235:LYS:HZ1	1:U:363:THR:H	1.64	0.45
1:Y:450:PRO:HB2	1:Y:451:TRP:CD2	2.52	0.45
1:Z:470:HIS:HB3	1:3:329:ASN:OD1	2.16	0.45
1:e:66:HIS:HD2	1:e:206:LYS:NZ	2.15	0.45
1:m:329:ASN:OD1	1:n:470:HIS:HB3	2.16	0.45
1:q:86:PHE:CD1	1:q:87:PRO:HD2	2.52	0.45
1:r:450:PRO:HB2	1:r:451:TRP:CD2	2.52	0.45
1:t:86:PHE:CD1	1:t:87:PRO:HD2	2.52	0.45
1:u:103:HIS:HE1	1:u:105:GLN:OE1	2.00	0.45
1:v:66:HIS:HD2	1:v:206:LYS:NZ	2.15	0.45
1:x:92:LEU:O	1:x:95:ARG:HG2	2.17	0.45
1:x:192:MET:O	1:x:193:TYR:HB2	2.16	0.45
1:1:103:HIS:HE1	1:1:105:GLN:OE1	2.00	0.45
1:2:370:THR:HA	1:2:395:TRP:HZ2	1.80	0.45
1:3:92:LEU:O	1:3:95:ARG:HG2	2.17	0.45
1:3:312:TRP:HB3	1:3:327:VAL:HG11	1.98	0.45
1:4:312:TRP:HB3	1:4:327:VAL:HG11	1.98	0.45
1:5:85:ARG:HG3	1:5:99:ASN:ND2	2.29	0.45
1:5:329:ASN:OD1	1:6:470:HIS:HB3	2.16	0.45
1:7:396:GLN:OE1	1:7:448:GLN:HG2	2.16	0.45
1:8:370:THR:HA	1:8:395:TRP:HZ2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:66:HIS:HD2	1:A:206:LYS:NZ	2.15	0.45
1:A:450:PRO:HB2	1:A:451:TRP:CD2	2.52	0.45
1:B:92:LEU:O	1:B:95:ARG:HG2	2.17	0.45
1:C:92:LEU:O	1:C:95:ARG:HG2	2.17	0.45
1:C:450:PRO:HB2	1:C:451:TRP:CD2	2.52	0.45
1:D:283:SER:O	1:D:287:THR:OG1	2.30	0.45
1:F:192:MET:HG3	1:Q:326:ARG:NH2	2.30	0.45
1:G:86:PHE:CD1	1:G:87:PRO:HD2	2.52	0.45
1:H:370:THR:HA	1:H:395:TRP:HZ2	1.80	0.45
1:H:378:ILE:HG13	1:H:393:GLN:HG2	1.99	0.45
1:I:312:TRP:HB3	1:I:327:VAL:HG11	1.98	0.45
1:J:370:THR:HA	1:J:395:TRP:HZ2	1.80	0.45
1:K:312:TRP:HB3	1:K:327:VAL:HG11	1.98	0.45
1:K:450:PRO:HB2	1:K:451:TRP:CD2	2.52	0.45
1:L:392:ASP:C	1:L:393:GLN:HG3	2.40	0.45
1:N:312:TRP:HB3	1:N:327:VAL:HG11	1.98	0.45
1:O:103:HIS:HE1	1:O:105:GLN:OE1	2.00	0.45
1:P:103:HIS:HE1	1:P:105:GLN:OE1	2.00	0.45
1:R:86:PHE:CD1	1:R:87:PRO:HD2	2.52	0.45
1:S:450:PRO:HB2	1:S:451:TRP:CD2	2.52	0.45
1:T:85:ARG:HG3	1:T:99:ASN:ND2	2.29	0.45
1:Z:86:PHE:CD1	1:Z:87:PRO:HD2	2.52	0.45
1:Z:450:PRO:HB2	1:Z:451:TRP:CD2	2.52	0.45
1:a:92:LEU:O	1:a:95:ARG:HG2	2.17	0.45
1:f:342:HIS:CD2	1:g:331:HIS:HE1	2.35	0.45
1:g:92:LEU:O	1:g:95:ARG:HG2	2.17	0.45
1:g:370:THR:HA	1:g:395:TRP:HZ2	1.80	0.45
1:g:450:PRO:HB2	1:g:451:TRP:CD2	2.52	0.45
1:h:217:TRP:O	1:h:236:LYS:HA	2.15	0.45
1:i:192:MET:O	1:i:193:TYR:HB2	2.16	0.45
1:i:450:PRO:HB2	1:i:451:TRP:CD2	2.52	0.45
1:m:85:ARG:HG3	1:m:99:ASN:ND2	2.29	0.45
1:n:312:TRP:HB3	1:n:327:VAL:HG11	1.98	0.45
1:v:86:PHE:CD1	1:v:87:PRO:HD2	2.52	0.45
1:v:241:ASP:OD1	1:v:241:ASP:N	2.48	0.45
1:v:370:THR:HA	1:v:395:TRP:HZ2	1.80	0.45
1:v:396:GLN:OE1	1:v:448:GLN:HG2	2.16	0.45
1:v:450:PRO:HB2	1:v:451:TRP:CD2	2.52	0.45
1:w:86:PHE:CD1	1:w:87:PRO:HD2	2.52	0.45
1:x:283:SER:O	1:x:287:THR:OG1	2.30	0.45
1:1:92:LEU:O	1:1:95:ARG:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:329:ASN:OD1	1:2:470:HIS:HB3	2.16	0.45
1:2:86:PHE:CD1	1:2:87:PRO:HD2	2.52	0.45
1:3:154:VAL:HG22	1:3:167:TYR:CE1	2.48	0.45
1:4:86:PHE:CD1	1:4:87:PRO:HD2	2.52	0.45
1:4:103:HIS:HE1	1:4:105:GLN:OE1	2.00	0.45
1:4:192:MET:O	1:4:193:TYR:HB2	2.16	0.45
1:4:450:PRO:HB2	1:4:451:TRP:CD2	2.52	0.45
1:6:66:HIS:HD2	1:6:206:LYS:NZ	2.15	0.45
1:6:283:SER:O	1:6:287:THR:OG1	2.30	0.45
1:8:86:PHE:CD1	1:8:87:PRO:HD2	2.52	0.45
1:8:450:PRO:HB2	1:8:451:TRP:CD2	2.52	0.45
1:A:86:PHE:CD1	1:A:87:PRO:HD2	2.52	0.45
1:A:241:ASP:N	1:A:241:ASP:OD1	2.48	0.45
1:A:378:ILE:HG13	1:A:393:GLN:HG2	1.99	0.45
1:B:329:ASN:OD1	1:J:470:HIS:HB3	2.16	0.45
1:C:193:TYR:CE2	1:M:326:ARG:HD3	2.52	0.45
1:D:329:ASN:OD1	1:N:470:HIS:HB3	2.16	0.45
1:E:86:PHE:CD1	1:E:87:PRO:HD2	2.52	0.45
1:F:193:TYR:CZ	1:Q:326:ARG:HD3	2.52	0.45
1:G:66:HIS:HD2	1:G:206:LYS:NZ	2.15	0.45
1:H:92:LEU:O	1:H:95:ARG:HG2	2.17	0.45
1:H:241:ASP:OD1	1:H:241:ASP:N	2.48	0.45
1:I:86:PHE:CD1	1:I:87:PRO:HD2	2.52	0.45
1:I:378:ILE:HG13	1:I:393:GLN:HG2	1.99	0.45
1:J:86:PHE:CD1	1:J:87:PRO:HD2	2.52	0.45
1:K:103:HIS:HE1	1:K:105:GLN:OE1	2.00	0.45
1:O:450:PRO:HB2	1:O:451:TRP:CD2	2.52	0.45
1:P:450:PRO:HB2	1:P:451:TRP:CD2	2.52	0.45
1:S:86:PHE:CD1	1:S:87:PRO:HD2	2.52	0.45
1:T:66:HIS:HD2	1:T:206:LYS:NZ	2.15	0.45
1:T:329:ASN:OD1	1:d:470:HIS:HB3	2.16	0.45
1:W:66:HIS:HD2	1:W:206:LYS:NZ	2.15	0.45
1:W:103:HIS:HE1	1:W:105:GLN:OE1	2.00	0.45
1:W:192:MET:O	1:W:193:TYR:HB2	2.16	0.45
1:a:312:TRP:HB3	1:a:327:VAL:HG11	1.98	0.45
1:a:329:ASN:OD1	1:8:470:HIS:HB3	2.16	0.45
1:a:450:PRO:HB2	1:a:451:TRP:CD2	2.52	0.45
1:b:86:PHE:CD1	1:b:87:PRO:HD2	2.52	0.45
1:e:103:HIS:HE1	1:e:105:GLN:OE1	2.00	0.45
1:f:86:PHE:CD1	1:f:87:PRO:HD2	2.52	0.45
1:i:312:TRP:HB3	1:i:327:VAL:HG11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:103:HIS:HE1	1:j:105:GLN:OE1	2.00	0.45
1:j:450:PRO:HB2	1:j:451:TRP:CD2	2.52	0.45
1:l:103:HIS:HE1	1:l:105:GLN:OE1	2.00	0.45
1:p:103:HIS:HE1	1:p:105:GLN:OE1	2.00	0.45
1:q:450:PRO:HB2	1:q:451:TRP:CD2	2.52	0.45
1:t:66:HIS:HD2	1:t:206:LYS:NZ	2.15	0.45
1:v:378:ILE:HG13	1:v:393:GLN:HG2	1.99	0.45
1:w:312:TRP:HB3	1:w:327:VAL:HG11	1.98	0.45
1:x:326:ARG:HD3	1:y:193:TYR:CZ	2.52	0.45
1:x:326:ARG:NH2	1:y:192:MET:HG3	2.30	0.45
1:x:329:ASN:OD1	1:y:470:HIS:HB3	2.17	0.45
1:z:396:GLN:OE1	1:z:448:GLN:HG2	2.16	0.45
1:3:450:PRO:HB2	1:3:451:TRP:CD2	2.52	0.45
1:4:378:ILE:HG13	1:4:393:GLN:HG2	1.99	0.45
1:5:470:HIS:HB3	1:7:329:ASN:OD1	2.16	0.45
1:6:192:MET:O	1:6:193:TYR:HB2	2.16	0.45
1:7:450:PRO:HB2	1:7:451:TRP:CD2	2.52	0.45
1:A:312:TRP:HB3	1:A:327:VAL:HG11	1.98	0.45
1:B:312:TRP:HB3	1:B:327:VAL:HG11	1.98	0.45
1:C:86:PHE:CD1	1:C:87:PRO:HD2	2.52	0.45
1:D:86:PHE:CD1	1:D:87:PRO:HD2	2.52	0.45
1:E:312:TRP:HB3	1:E:327:VAL:HG11	1.98	0.45
1:F:470:HIS:HB3	1:Q:329:ASN:OD1	2.17	0.45
1:H:470:HIS:HB3	1:Y:329:ASN:OD1	2.16	0.45
1:K:378:ILE:HG13	1:K:393:GLN:HG2	1.99	0.45
1:K:455:TRP:CD1	1:K:480:PRO:HD2	2.51	0.45
1:L:396:GLN:OE1	1:L:448:GLN:HG2	2.16	0.45
1:M:85:ARG:HG3	1:M:99:ASN:ND2	2.29	0.45
1:N:66:HIS:HD2	1:N:206:LYS:NZ	2.15	0.45
1:N:378:ILE:HG13	1:N:393:GLN:HG2	1.99	0.45
1:Q:103:HIS:HE1	1:Q:105:GLN:OE1	2.00	0.45
1:R:450:PRO:HB2	1:R:451:TRP:CD2	2.52	0.45
1:U:86:PHE:CD1	1:U:87:PRO:HD2	2.52	0.45
1:V:103:HIS:HE1	1:V:105:GLN:OE1	2.00	0.45
1:V:342:HIS:CD2	1:X:331:HIS:HE1	2.35	0.45
1:W:283:SER:O	1:W:287:THR:OG1	2.30	0.45
1:Y:66:HIS:HD2	1:Y:206:LYS:NZ	2.15	0.45
1:Z:103:HIS:HE1	1:Z:105:GLN:OE1	2.00	0.45
1:d:103:HIS:HE1	1:d:105:GLN:OE1	2.00	0.45
1:e:450:PRO:HB2	1:e:451:TRP:CD2	2.52	0.45
1:g:86:PHE:CD1	1:g:87:PRO:HD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:450:PRO:HB2	1:h:451:TRP:CD2	2.52	0.45
1:i:378:ILE:HG13	1:i:393:GLN:HG2	1.99	0.45
1:i:470:HIS:HB3	1:k:329:ASN:OD1	2.16	0.45
1:j:312:TRP:HB3	1:j:327:VAL:HG11	1.98	0.45
1:k:86:PHE:CD1	1:k:87:PRO:HD2	2.52	0.45
1:m:66:HIS:HD2	1:m:206:LYS:NZ	2.15	0.45
1:m:86:PHE:CD1	1:m:87:PRO:HD2	2.52	0.45
1:n:85:ARG:HG3	1:n:99:ASN:ND2	2.29	0.45
1:n:103:HIS:HE1	1:n:105:GLN:OE1	2.00	0.45
1:n:192:MET:O	1:n:193:TYR:HB2	2.16	0.45
1:o:331:HIS:HE1	1:p:342:HIS:CD2	2.35	0.45
1:q:85:ARG:HG3	1:q:99:ASN:ND2	2.29	0.45
1:r:86:PHE:CD1	1:r:87:PRO:HD2	2.52	0.45
1:r:378:ILE:HG13	1:r:393:GLN:HG2	1.99	0.45
1:s:66:HIS:HD2	1:s:206:LYS:NZ	2.15	0.45
1:u:86:PHE:CD1	1:u:87:PRO:HD2	2.52	0.45
1:v:312:TRP:HB3	1:v:327:VAL:HG11	1.98	0.45
1:x:66:HIS:HD2	1:x:206:LYS:NZ	2.15	0.45
1:1:312:TRP:HB3	1:1:327:VAL:HG11	1.98	0.45
1:3:66:HIS:HD2	1:3:206:LYS:NZ	2.15	0.45
1:5:92:LEU:O	1:5:95:ARG:HG2	2.17	0.45
1:5:378:ILE:HG13	1:5:393:GLN:HG2	1.99	0.45
1:6:103:HIS:HE1	1:6:105:GLN:OE1	2.00	0.45
1:7:66:HIS:HD2	1:7:206:LYS:NZ	2.15	0.45
1:7:92:LEU:O	1:7:95:ARG:HG2	2.17	0.45
1:7:103:HIS:HE1	1:7:105:GLN:OE1	2.00	0.45
1:A:449:TYR:CB	1:A:559:MET:HB2	2.48	0.44
1:C:103:HIS:HE1	1:C:105:GLN:OE1	2.00	0.44
1:F:66:HIS:HD2	1:F:206:LYS:NZ	2.15	0.44
1:F:192:MET:O	1:F:193:TYR:HB2	2.16	0.44
1:F:449:TYR:CB	1:F:559:MET:HB2	2.48	0.44
1:G:103:HIS:HE1	1:G:105:GLN:OE1	2.00	0.44
1:G:378:ILE:HG13	1:G:393:GLN:HG2	1.99	0.44
1:H:86:PHE:CD1	1:H:87:PRO:HD2	2.52	0.44
1:J:331:HIS:HE1	1:L:342:HIS:CD2	2.36	0.44
1:L:378:ILE:HG13	1:L:393:GLN:HG2	1.99	0.44
1:L:468:SER:OG	1:L:471:ALA:O	2.26	0.44
1:M:450:PRO:HB2	1:M:451:TRP:CD2	2.52	0.44
1:P:312:TRP:HB3	1:P:327:VAL:HG11	1.98	0.44
1:Q:66:HIS:HD2	1:Q:206:LYS:NZ	2.15	0.44
1:Q:283:SER:O	1:Q:287:THR:OG1	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:85:ARG:HG3	1:R:99:ASN:ND2	2.28	0.44
1:R:312:TRP:HB3	1:R:327:VAL:HG11	1.98	0.44
1:R:449:TYR:CB	1:R:559:MET:HB2	2.48	0.44
1:S:103:HIS:HE1	1:S:105:GLN:OE1	2.00	0.44
1:S:312:TRP:HB3	1:S:327:VAL:HG11	1.98	0.44
1:S:378:ILE:HG13	1:S:393:GLN:HG2	1.99	0.44
1:T:86:PHE:CD1	1:T:87:PRO:HD2	2.52	0.44
1:T:103:HIS:HE1	1:T:105:GLN:OE1	2.00	0.44
1:T:283:SER:O	1:T:287:THR:OG1	2.30	0.44
1:U:66:HIS:HD2	1:U:206:LYS:NZ	2.15	0.44
1:W:86:PHE:CD1	1:W:87:PRO:HD2	2.52	0.44
1:X:86:PHE:CD1	1:X:87:PRO:HD2	2.52	0.44
1:Y:92:LEU:O	1:Y:95:ARG:HG2	2.17	0.44
1:Z:66:HIS:HD2	1:Z:206:LYS:NZ	2.15	0.44
1:Z:378:ILE:HG13	1:Z:393:GLN:HG2	1.99	0.44
1:c:103:HIS:HE1	1:c:105:GLN:OE1	2.00	0.44
1:c:342:HIS:CD2	1:p:331:HIS:HE1	2.36	0.44
1:c:450:PRO:HB2	1:c:451:TRP:CD2	2.52	0.44
1:d:192:MET:O	1:d:193:TYR:HB2	2.16	0.44
1:h:85:ARG:HG3	1:h:99:ASN:ND2	2.28	0.44
1:i:66:HIS:HD2	1:i:206:LYS:NZ	2.15	0.44
1:l:450:PRO:HB2	1:l:451:TRP:CD2	2.52	0.44
1:o:86:PHE:CD1	1:o:87:PRO:HD2	2.52	0.44
1:q:312:TRP:HB3	1:q:327:VAL:HG11	1.98	0.44
1:q:329:ASN:OD1	1:r:470:HIS:HB3	2.16	0.44
1:q:449:TYR:CB	1:q:559:MET:HB2	2.48	0.44
1:r:103:HIS:HE1	1:r:105:GLN:OE1	2.00	0.44
1:r:283:SER:O	1:r:287:THR:OG1	2.30	0.44
1:r:363:THR:H	1:s:235:LYS:HZ1	1.65	0.44
1:s:86:PHE:CD1	1:s:87:PRO:HD2	2.52	0.44
1:t:103:HIS:HE1	1:t:105:GLN:OE1	2.00	0.44
1:t:378:ILE:HG13	1:t:393:GLN:HG2	1.99	0.44
1:u:312:TRP:HB3	1:u:327:VAL:HG11	1.98	0.44
1:u:378:ILE:HG13	1:u:393:GLN:HG2	1.99	0.44
1:v:449:TYR:CB	1:v:559:MET:HB2	2.48	0.44
1:z:342:HIS:CD2	1:2:331:HIS:HE1	2.35	0.44
1:z:378:ILE:HG13	1:z:393:GLN:HG2	1.99	0.44
1:z:468:SER:OG	1:z:471:ALA:O	2.26	0.44
1:5:86:PHE:CD1	1:5:87:PRO:HD2	2.52	0.44
1:6:86:PHE:CD1	1:6:87:PRO:HD2	2.52	0.44
1:6:154:VAL:HG22	1:6:167:TYR:CE1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:66:HIS:HD2	1:8:206:LYS:NZ	2.15	0.44
1:8:312:TRP:HB3	1:8:327:VAL:HG11	1.98	0.44
1:8:378:ILE:HG13	1:8:393:GLN:HG2	1.99	0.44
1:A:193:TYR:CZ	1:I:326:ARG:HD3	2.52	0.44
1:D:66:HIS:HD2	1:D:206:LYS:NZ	2.15	0.44
1:D:92:LEU:O	1:D:95:ARG:HG2	2.17	0.44
1:D:450:PRO:HB2	1:D:451:TRP:CD2	2.52	0.44
1:J:66:HIS:HD2	1:J:206:LYS:NZ	2.15	0.44
1:P:85:ARG:HG3	1:P:99:ASN:ND2	2.29	0.44
1:V:331:HIS:HE1	1:e:342:HIS:CD2	2.36	0.44
1:V:450:PRO:HB2	1:V:451:TRP:CD2	2.52	0.44
1:W:154:VAL:HG22	1:W:167:TYR:CE1	2.48	0.44
1:X:66:HIS:HD2	1:X:206:LYS:NZ	2.15	0.44
1:Y:103:HIS:HE1	1:Y:105:GLN:OE1	2.00	0.44
1:a:66:HIS:HD2	1:a:206:LYS:NZ	2.15	0.44
1:d:85:ARG:HG3	1:d:99:ASN:ND2	2.28	0.44
1:g:103:HIS:HE1	1:g:105:GLN:OE1	2.00	0.44
1:j:85:ARG:HG3	1:j:99:ASN:ND2	2.29	0.44
1:k:92:LEU:O	1:k:95:ARG:HG2	2.17	0.44
1:k:450:PRO:HB2	1:k:451:TRP:CD2	2.52	0.44
1:m:103:HIS:HE1	1:m:105:GLN:OE1	2.00	0.44
1:m:283:SER:O	1:m:287:THR:OG1	2.30	0.44
1:n:154:VAL:HG22	1:n:167:TYR:CE1	2.48	0.44
1:o:66:HIS:HD2	1:o:206:LYS:NZ	2.15	0.44
1:p:450:PRO:HB2	1:p:451:TRP:CD2	2.52	0.44
1:q:192:MET:HG3	1:s:326:ARG:NH2	2.33	0.44
1:t:331:HIS:HE1	1:u:342:HIS:CD2	2.35	0.44
1:x:86:PHE:CD1	1:x:87:PRO:HD2	2.52	0.44
1:x:450:PRO:HB2	1:x:451:TRP:CD2	2.52	0.44
1:y:66:HIS:HD2	1:y:206:LYS:NZ	2.15	0.44
1:y:192:MET:O	1:y:193:TYR:HB2	2.16	0.44
1:y:449:TYR:CB	1:y:559:MET:HB2	2.48	0.44
1:z:392:ASP:C	1:z:393:GLN:HG3	2.40	0.44
1:1:450:PRO:HB2	1:1:451:TRP:CD2	2.52	0.44
1:4:455:TRP:CD1	1:4:480:PRO:HD2	2.51	0.44
1:5:241:ASP:OD1	1:5:241:ASP:N	2.48	0.44
1:5:342:HIS:CD2	1:7:331:HIS:HE1	2.35	0.44
1:8:103:HIS:HE1	1:8:105:GLN:OE1	2.00	0.44
1:A:103:HIS:HE1	1:A:105:GLN:OE1	2.00	0.44
1:B:450:PRO:HB2	1:B:451:TRP:CD2	2.52	0.44
1:B:468:SER:OG	1:B:471:ALA:O	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:66:HIS:HD2	1:C:206:LYS:NZ	2.15	0.44
1:E:470:HIS:HB3	1:F:329:ASN:OD1	2.16	0.44
1:F:86:PHE:CD1	1:F:87:PRO:HD2	2.52	0.44
1:F:378:ILE:HG13	1:F:393:GLN:HG2	1.99	0.44
1:G:92:LEU:O	1:G:95:ARG:HG2	2.17	0.44
1:G:312:TRP:HB3	1:G:327:VAL:HG11	1.98	0.44
1:G:450:PRO:HB2	1:G:451:TRP:CD2	2.52	0.44
1:H:342:HIS:CD2	1:Y:331:HIS:HE1	2.36	0.44
1:L:92:LEU:O	1:L:95:ARG:HG2	2.17	0.44
1:M:92:LEU:O	1:M:95:ARG:HG2	2.17	0.44
1:P:283:SER:O	1:P:287:THR:OG1	2.30	0.44
1:Q:86:PHE:CD1	1:Q:87:PRO:HD2	2.52	0.44
1:Q:378:ILE:HG13	1:Q:393:GLN:HG2	1.99	0.44
1:Q:450:PRO:HB2	1:Q:451:TRP:CD2	2.52	0.44
1:R:192:MET:HG3	1:U:326:ARG:NH2	2.33	0.44
1:V:312:TRP:HB3	1:V:327:VAL:HG11	1.98	0.44
1:X:92:LEU:O	1:X:95:ARG:HG2	2.17	0.44
1:X:312:TRP:HB3	1:X:327:VAL:HG11	1.98	0.44
1:Z:312:TRP:HB3	1:Z:327:VAL:HG11	1.98	0.44
1:c:312:TRP:HB3	1:c:327:VAL:HG11	1.98	0.44
1:f:470:HIS:HB3	1:g:329:ASN:OD1	2.17	0.44
1:k:66:HIS:HD2	1:k:206:LYS:NZ	2.15	0.44
1:l:154:VAL:HG22	1:l:167:TYR:CE1	2.48	0.44
1:n:86:PHE:CD1	1:n:87:PRO:HD2	2.52	0.44
1:o:92:LEU:O	1:o:95:ARG:HG2	2.17	0.44
1:s:312:TRP:HB3	1:s:327:VAL:HG11	1.98	0.44
1:t:312:TRP:HB3	1:t:327:VAL:HG11	1.98	0.44
1:v:103:HIS:HE1	1:v:105:GLN:OE1	2.00	0.44
1:w:66:HIS:HD2	1:w:206:LYS:NZ	2.15	0.44
1:w:470:HIS:HB3	1:y:329:ASN:OD1	2.16	0.44
1:x:103:HIS:HE1	1:x:105:GLN:OE1	2.00	0.44
1:y:86:PHE:CD1	1:y:87:PRO:HD2	2.52	0.44
1:y:92:LEU:O	1:y:95:ARG:HG2	2.17	0.44
1:y:450:PRO:HB2	1:y:451:TRP:CD2	2.52	0.44
1:1:66:HIS:HD2	1:1:206:LYS:NZ	2.15	0.44
1:2:66:HIS:HD2	1:2:206:LYS:NZ	2.15	0.44
1:2:378:ILE:HG13	1:2:393:GLN:HG2	1.99	0.44
1:4:66:HIS:HD2	1:4:206:LYS:NZ	2.15	0.44
1:5:449:TYR:CB	1:5:559:MET:HB2	2.48	0.44
1:6:312:TRP:HB3	1:6:327:VAL:HG11	1.98	0.44
1:B:66:HIS:HD2	1:B:206:LYS:NZ	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:449:TYR:CB	1:B:559:MET:HB2	2.48	0.44
1:C:312:TRP:HB3	1:C:327:VAL:HG11	1.98	0.44
1:C:449:TYR:CB	1:C:559:MET:HB2	2.48	0.44
1:D:312:TRP:HB3	1:D:327:VAL:HG11	1.98	0.44
1:E:66:HIS:HD2	1:E:206:LYS:NZ	2.15	0.44
1:E:326:ARG:NH2	1:Q:192:MET:HG3	2.33	0.44
1:E:450:PRO:HB2	1:E:451:TRP:CD2	2.52	0.44
1:F:450:PRO:HB2	1:F:451:TRP:CD2	2.52	0.44
1:G:73:GLU:OE1	1:G:486:LYS:NZ	2.41	0.44
1:H:449:TYR:CB	1:H:559:MET:HB2	2.48	0.44
1:J:378:ILE:HG13	1:J:393:GLN:HG2	1.99	0.44
1:K:66:HIS:HD2	1:K:206:LYS:NZ	2.15	0.44
1:P:86:PHE:CD1	1:P:87:PRO:HD2	2.52	0.44
1:R:329:ASN:OD1	1:S:470:HIS:HB3	2.16	0.44
1:S:82:ARG:NH1	1:S:236:LYS:HD3	2.33	0.44
1:S:92:LEU:O	1:S:95:ARG:HG2	2.17	0.44
1:U:312:TRP:HB3	1:U:327:VAL:HG11	1.98	0.44
1:U:449:TYR:CB	1:U:559:MET:HB2	2.48	0.44
1:X:501:GLY:C	1:X:503:ASN:N	2.75	0.44
1:a:363:THR:H	1:8:235:LYS:HZ1	1.65	0.44
1:a:449:TYR:CB	1:a:559:MET:HB2	2.48	0.44
1:b:312:TRP:HB3	1:b:327:VAL:HG11	1.98	0.44
1:d:86:PHE:CD1	1:d:87:PRO:HD2	2.52	0.44
1:d:154:VAL:HG22	1:d:167:TYR:CE1	2.48	0.44
1:d:378:ILE:HG13	1:d:393:GLN:HG2	1.99	0.44
1:e:312:TRP:HB3	1:e:327:VAL:HG11	1.98	0.44
1:f:312:TRP:HB3	1:f:327:VAL:HG11	1.98	0.44
1:g:66:HIS:HD2	1:g:206:LYS:NZ	2.15	0.44
1:g:312:TRP:HB3	1:g:327:VAL:HG11	1.98	0.44
1:g:378:ILE:HG13	1:g:393:GLN:HG2	1.99	0.44
1:g:449:TYR:CB	1:g:559:MET:HB2	2.48	0.44
1:h:92:LEU:O	1:h:95:ARG:HG2	2.17	0.44
1:j:86:PHE:CD1	1:j:87:PRO:HD2	2.52	0.44
1:k:312:TRP:HB3	1:k:327:VAL:HG11	1.98	0.44
1:o:449:TYR:CB	1:o:559:MET:HB2	2.48	0.44
1:o:501:GLY:C	1:o:503:ASN:N	2.75	0.44
1:q:331:HIS:HE1	1:r:342:HIS:CD2	2.36	0.44
1:r:312:TRP:HB3	1:r:327:VAL:HG11	1.98	0.44
1:s:449:TYR:CB	1:s:559:MET:HB2	2.48	0.44
1:t:279:TYR:OH	1:u:242:ASP:OD1	2.34	0.44
1:t:450:PRO:HB2	1:t:451:TRP:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:449:TYR:CB	1:w:559:MET:HB2	2.48	0.44
1:y:378:ILE:HG13	1:y:393:GLN:HG2	1.99	0.44
1:1:86:PHE:CD1	1:1:87:PRO:HD2	2.52	0.44
1:3:449:TYR:CB	1:3:559:MET:HB2	2.48	0.44
1:A:470:HIS:HB3	1:I:329:ASN:OD1	2.17	0.44
1:C:193:TYR:CZ	1:M:326:ARG:HD3	2.52	0.44
1:C:378:ILE:HG13	1:C:393:GLN:HG2	1.99	0.44
1:E:449:TYR:CB	1:E:559:MET:HB2	2.48	0.44
1:F:92:LEU:O	1:F:95:ARG:HG2	2.17	0.44
1:H:66:HIS:HD2	1:H:206:LYS:NZ	2.15	0.44
1:K:363:THR:H	1:a:235:LYS:HZ1	1.66	0.44
1:N:363:THR:H	1:P:235:LYS:HZ1	1.63	0.44
1:O:331:HIS:HE1	1:m:342:HIS:CD2	2.35	0.44
1:R:92:LEU:O	1:R:95:ARG:HG2	2.17	0.44
1:R:331:HIS:HE1	1:S:342:HIS:CD2	2.36	0.44
1:S:283:SER:O	1:S:287:THR:OG1	2.30	0.44
1:S:449:TYR:CB	1:S:559:MET:HB2	2.48	0.44
1:T:342:HIS:CD2	1:l:331:HIS:HE1	2.35	0.44
1:T:449:TYR:CB	1:T:559:MET:HB2	2.48	0.44
1:W:312:TRP:HB3	1:W:327:VAL:HG11	1.98	0.44
1:W:331:HIS:HE1	1:Y:342:HIS:CD2	2.35	0.44
1:X:449:TYR:CB	1:X:559:MET:HB2	2.48	0.44
1:a:154:VAL:HG22	1:a:167:TYR:CE1	2.48	0.44
1:a:186:PRO:O	1:a:210:TYR:OH	2.34	0.44
1:b:449:TYR:CB	1:b:559:MET:HB2	2.48	0.44
1:f:331:HIS:HE1	1:h:342:HIS:CD2	2.36	0.44
1:f:449:TYR:CB	1:f:559:MET:HB2	2.48	0.44
1:f:450:PRO:HB2	1:f:451:TRP:CD2	2.52	0.44
1:h:86:PHE:CD1	1:h:87:PRO:HD2	2.52	0.44
1:h:103:HIS:HE1	1:h:105:GLN:OE1	2.00	0.44
1:k:449:TYR:CB	1:k:559:MET:HB2	2.48	0.44
1:m:450:PRO:HB2	1:m:451:TRP:CD2	2.52	0.44
1:n:378:ILE:HG13	1:n:393:GLN:HG2	1.99	0.44
1:o:312:TRP:HB3	1:o:327:VAL:HG11	1.98	0.44
1:q:92:LEU:O	1:q:95:ARG:HG2	2.17	0.44
1:r:66:HIS:HD2	1:r:206:LYS:NZ	2.15	0.44
1:r:82:ARG:NH1	1:r:236:LYS:HD3	2.33	0.44
1:r:92:LEU:O	1:r:95:ARG:HG2	2.17	0.44
1:t:92:LEU:O	1:t:95:ARG:HG2	2.17	0.44
1:u:396:GLN:OE1	1:u:448:GLN:HG2	2.16	0.44
1:w:450:PRO:HB2	1:w:451:TRP:CD2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:378:ILE:HG13	1:x:393:GLN:HG2	1.99	0.44
1:x:449:TYR:CB	1:x:559:MET:HB2	2.47	0.44
1:y:283:SER:O	1:y:287:THR:OG1	2.30	0.44
1:z:92:LEU:O	1:z:95:ARG:HG2	2.17	0.44
1:1:449:TYR:CB	1:1:559:MET:HB2	2.48	0.44
1:3:192:MET:HG3	1:4:326:ARG:NH2	2.33	0.44
1:4:92:LEU:O	1:4:95:ARG:HG2	2.17	0.44
1:6:378:ILE:HG13	1:6:393:GLN:HG2	1.99	0.44
1:6:450:PRO:HB2	1:6:451:TRP:CD2	2.52	0.44
1:B:86:PHE:CD1	1:B:87:PRO:HD2	2.52	0.44
1:D:449:TYR:CB	1:D:559:MET:HB2	2.48	0.44
1:E:85:ARG:HG3	1:E:99:ASN:ND2	2.29	0.44
1:G:85:ARG:HG3	1:G:99:ASN:ND2	2.29	0.44
1:H:450:PRO:HB2	1:H:451:TRP:CD2	2.52	0.44
1:I:396:GLN:OE1	1:I:448:GLN:HG2	2.16	0.44
1:I:449:TYR:CB	1:I:559:MET:HB2	2.48	0.44
1:K:326:ARG:NH2	1:a:192:MET:HG3	2.33	0.44
1:M:86:PHE:CD1	1:M:87:PRO:HD2	2.52	0.44
1:M:312:TRP:HB3	1:M:327:VAL:HG11	1.98	0.44
1:O:154:VAL:HG22	1:O:167:TYR:CE1	2.48	0.44
1:S:66:HIS:HD2	1:S:206:LYS:NZ	2.15	0.44
1:V:449:TYR:CB	1:V:559:MET:HB2	2.48	0.44
1:W:450:PRO:HB2	1:W:451:TRP:CD2	2.52	0.44
1:Y:378:ILE:HG13	1:Y:393:GLN:HG2	1.99	0.44
1:b:450:PRO:HB2	1:b:451:TRP:CD2	2.52	0.44
1:c:86:PHE:CD1	1:c:87:PRO:HD2	2.52	0.44
1:e:85:ARG:HG3	1:e:99:ASN:ND2	2.28	0.44
1:i:235:LYS:HZ1	1:k:363:THR:H	1.66	0.44
1:i:342:HIS:CD2	1:k:331:HIS:HE1	2.35	0.44
1:i:363:THR:H	1:j:235:LYS:HZ1	1.63	0.44
1:l:356:PHE:HE1	1:l:358:GLN:NE2	2.16	0.44
1:m:449:TYR:CB	1:m:559:MET:HB2	2.48	0.44
1:p:73:GLU:OE1	1:p:486:LYS:NZ	2.41	0.44
1:p:312:TRP:HB3	1:p:327:VAL:HG11	1.98	0.44
1:p:449:TYR:CB	1:p:559:MET:HB2	2.48	0.44
1:r:449:TYR:CB	1:r:559:MET:HB2	2.48	0.44
1:u:449:TYR:CB	1:u:559:MET:HB2	2.48	0.44
1:w:326:ARG:NH2	1:x:192:MET:HG3	2.33	0.44
1:w:468:SER:OG	1:w:471:ALA:O	2.26	0.44
1:1:468:SER:OG	1:1:471:ALA:O	2.26	0.44
1:2:501:GLY:C	1:2:503:ASN:N	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:356:PHE:HE1	1:3:358:GLN:NE2	2.16	0.44
1:8:92:LEU:O	1:8:95:ARG:HG2	2.17	0.44
1:A:356:PHE:HE1	1:A:358:GLN:NE2	2.16	0.44
1:B:172:THR:CG2	1:C:259:THR:HG21	2.48	0.44
1:C:468:SER:OG	1:C:471:ALA:O	2.26	0.44
1:E:92:LEU:O	1:E:95:ARG:HG2	2.17	0.44
1:E:468:SER:OG	1:E:471:ALA:O	2.26	0.44
1:G:449:TYR:CB	1:G:559:MET:HB2	2.48	0.44
1:I:92:LEU:O	1:I:95:ARG:HG2	2.17	0.44
1:J:103:HIS:HE1	1:J:105:GLN:OE1	2.00	0.44
1:J:501:GLY:C	1:J:503:ASN:N	2.75	0.44
1:K:92:LEU:O	1:K:95:ARG:HG2	2.17	0.44
1:L:312:TRP:HB3	1:L:327:VAL:HG11	1.98	0.44
1:M:103:HIS:HE1	1:M:105:GLN:OE1	2.00	0.44
1:O:356:PHE:HE1	1:O:358:GLN:NE2	2.16	0.44
1:T:92:LEU:O	1:T:95:ARG:HG2	2.17	0.44
1:T:450:PRO:HB2	1:T:451:TRP:CD2	2.52	0.44
1:T:468:SER:OG	1:T:471:ALA:O	2.26	0.44
1:U:92:LEU:O	1:U:95:ARG:HG2	2.17	0.44
1:V:73:GLU:OE1	1:V:486:LYS:NZ	2.41	0.44
1:W:378:ILE:HG13	1:W:393:GLN:HG2	2.00	0.44
1:Z:92:LEU:O	1:Z:95:ARG:HG2	2.17	0.44
1:a:103:HIS:HE1	1:a:105:GLN:OE1	2.00	0.44
1:a:356:PHE:HE1	1:a:358:GLN:NE2	2.16	0.44
1:d:92:LEU:O	1:d:95:ARG:HG2	2.17	0.44
1:d:450:PRO:HB2	1:d:451:TRP:CD2	2.52	0.44
1:e:86:PHE:CD1	1:e:87:PRO:HD2	2.52	0.44
1:g:468:SER:OG	1:g:471:ALA:O	2.26	0.44
1:j:283:SER:O	1:j:287:THR:OG1	2.30	0.44
1:m:331:HIS:HE1	1:n:342:HIS:CD2	2.36	0.44
1:n:92:LEU:O	1:n:95:ARG:HG2	2.17	0.44
1:n:356:PHE:HE1	1:n:358:GLN:NE2	2.16	0.44
1:s:92:LEU:O	1:s:95:ARG:HG2	2.17	0.44
1:t:449:TYR:CB	1:t:559:MET:HB2	2.48	0.44
1:w:85:ARG:HG3	1:w:99:ASN:ND2	2.29	0.44
1:w:342:HIS:CD2	1:y:331:HIS:HE1	2.36	0.44
1:z:312:TRP:HB3	1:z:327:VAL:HG11	1.98	0.44
1:z:450:PRO:HB2	1:z:451:TRP:CD2	2.52	0.44
1:2:92:LEU:O	1:2:95:ARG:HG2	2.17	0.44
1:3:103:HIS:HE1	1:3:105:GLN:OE1	2.00	0.44
1:5:66:HIS:HD2	1:5:206:LYS:NZ	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:450:PRO:HB2	1:5:451:TRP:CD2	2.52	0.44
1:6:331:HIS:HE1	1:7:342:HIS:CD2	2.36	0.44
1:8:154:VAL:HG22	1:8:167:TYR:CE1	2.48	0.44
1:B:501:GLY:C	1:B:503:ASN:N	2.75	0.44
1:D:331:HIS:HE1	1:N:342:HIS:CD2	2.35	0.44
1:E:342:HIS:CD2	1:F:331:HIS:HE1	2.36	0.44
1:F:188:VAL:HB	1:Q:289:SER:HA	2.00	0.44
1:F:283:SER:O	1:F:287:THR:OG1	2.30	0.44
1:G:331:HIS:HE1	1:I:342:HIS:CD2	2.35	0.44
1:I:66:HIS:HD2	1:I:206:LYS:NZ	2.15	0.44
1:J:92:LEU:O	1:J:95:ARG:HG2	2.17	0.44
1:J:450:PRO:HB2	1:J:451:TRP:CD2	2.52	0.44
1:J:457:LYS:HD3	1:J:479:PRO:HG3	2.00	0.44
1:K:95:ARG:HG3	1:8:421:VAL:HG11	2.00	0.44
1:L:450:PRO:HB2	1:L:451:TRP:CD2	2.52	0.44
1:Q:82:ARG:NH1	1:Q:236:LYS:HD3	2.33	0.44
1:Q:449:TYR:CB	1:Q:559:MET:HB2	2.48	0.44
1:R:82:ARG:NH1	1:R:236:LYS:HD3	2.33	0.44
1:T:331:HIS:HE1	1:d:342:HIS:CD2	2.36	0.44
1:U:501:GLY:C	1:U:503:ASN:N	2.75	0.44
1:V:283:SER:O	1:V:287:THR:OG1	2.30	0.44
1:Y:86:PHE:CD1	1:Y:87:PRO:HD2	2.52	0.44
1:Z:421:VAL:HG11	1:4:95:ARG:HG3	2.00	0.44
1:Z:449:TYR:CB	1:Z:559:MET:HB2	2.48	0.44
1:b:92:LEU:O	1:b:95:ARG:HG2	2.17	0.44
1:d:356:PHE:HE1	1:d:358:GLN:NE2	2.16	0.44
1:i:86:PHE:CD1	1:i:87:PRO:HD2	2.52	0.44
1:i:449:TYR:CB	1:i:559:MET:HB2	2.48	0.44
1:j:449:TYR:CB	1:j:559:MET:HB2	2.48	0.44
1:n:450:PRO:HB2	1:n:451:TRP:CD2	2.52	0.44
1:r:331:HIS:HE1	1:s:342:HIS:CD2	2.36	0.44
1:s:501:GLY:C	1:s:503:ASN:N	2.75	0.44
1:t:85:ARG:HG3	1:t:99:ASN:ND2	2.28	0.44
1:u:92:LEU:O	1:u:95:ARG:HG2	2.17	0.44
1:v:92:LEU:O	1:v:95:ARG:HG2	2.17	0.44
1:v:356:PHE:HE1	1:v:358:GLN:NE2	2.16	0.44
1:w:331:HIS:HE1	1:x:342:HIS:CD2	2.35	0.44
1:x:82:ARG:NH1	1:x:236:LYS:HD3	2.33	0.44
1:z:86:PHE:CD1	1:z:87:PRO:HD2	2.52	0.44
1:1:501:GLY:C	1:1:503:ASN:N	2.75	0.44
1:2:103:HIS:HE1	1:2:105:GLN:OE1	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:450:PRO:HB2	1:2:451:TRP:CD2	2.52	0.44
1:7:378:ILE:HG13	1:7:393:GLN:HG2	1.99	0.44
1:8:449:TYR:CB	1:8:559:MET:HB2	2.48	0.44
1:A:92:LEU:O	1:A:95:ARG:HG2	2.17	0.44
1:A:326:ARG:NH2	1:G:192:MET:HG3	2.32	0.44
1:B:95:ARG:HG3	1:L:421:VAL:HG11	2.00	0.44
1:B:421:VAL:HG11	1:J:95:ARG:HG3	2.00	0.44
1:C:356:PHE:HE1	1:C:358:GLN:NE2	2.16	0.44
1:C:430:GLN:HE21	1:b:223:ILE:HD13	1.82	0.44
1:H:326:ARG:NH2	1:W:192:MET:HG3	2.33	0.44
1:K:331:HIS:HE1	1:a:342:HIS:CD2	2.35	0.44
1:K:342:HIS:CD2	1:8:331:HIS:HE1	2.35	0.44
1:L:86:PHE:CD1	1:L:87:PRO:HD2	2.52	0.44
1:M:342:HIS:CD2	1:b:331:HIS:HE1	2.36	0.44
1:N:86:PHE:CD1	1:N:87:PRO:HD2	2.52	0.44
1:N:92:LEU:O	1:N:95:ARG:HG2	2.17	0.44
1:N:331:HIS:HE1	1:P:342:HIS:CD2	2.36	0.44
1:N:449:TYR:CB	1:N:559:MET:HB2	2.48	0.44
1:N:457:LYS:HD3	1:N:479:PRO:HG3	2.00	0.44
1:W:449:TYR:CB	1:W:559:MET:HB2	2.48	0.44
1:W:549:ASN:HB2	1:W:553:HIS:O	2.18	0.44
1:a:86:PHE:CD1	1:a:87:PRO:HD2	2.52	0.44
1:c:85:ARG:HG3	1:c:99:ASN:ND2	2.28	0.44
1:d:449:TYR:CB	1:d:559:MET:HB2	2.48	0.44
1:f:82:ARG:NH1	1:f:236:LYS:HD3	2.33	0.44
1:f:92:LEU:O	1:f:95:ARG:HG2	2.17	0.44
1:h:312:TRP:HB3	1:h:327:VAL:HG11	1.98	0.44
1:m:92:LEU:O	1:m:95:ARG:HG2	2.17	0.44
1:o:233:GLN:NE2	1:o:236:LYS:HB3	2.33	0.44
1:p:66:HIS:HD2	1:p:206:LYS:NZ	2.15	0.44
1:q:82:ARG:NH1	1:q:236:LYS:HD3	2.33	0.44
1:t:356:PHE:HE1	1:t:358:GLN:NE2	2.16	0.44
1:u:450:PRO:HB2	1:u:451:TRP:CD2	2.52	0.44
1:w:92:LEU:O	1:w:95:ARG:HG2	2.17	0.44
1:z:331:HIS:HE1	1:1:342:HIS:CD2	2.36	0.44
1:z:356:PHE:HE1	1:z:358:GLN:NE2	2.16	0.44
1:z:421:VAL:HG11	1:1:95:ARG:HG3	2.00	0.44
1:1:421:VAL:HG11	1:2:95:ARG:HG3	2.00	0.44
1:3:86:PHE:CD1	1:3:87:PRO:HD2	2.52	0.44
1:3:342:HIS:CD2	1:4:331:HIS:HE1	2.35	0.44
1:5:356:PHE:HE1	1:5:358:GLN:NE2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:449:TYR:CB	1:6:559:MET:HB2	2.48	0.44
1:6:549:ASN:HB2	1:6:553:HIS:O	2.18	0.44
1:7:86:PHE:CD1	1:7:87:PRO:HD2	2.52	0.44
1:A:457:LYS:HD3	1:A:479:PRO:HG3	2.00	0.43
1:C:82:ARG:NH1	1:C:236:LYS:HD3	2.33	0.43
1:D:82:ARG:NH1	1:D:236:LYS:HD3	2.33	0.43
1:E:331:HIS:HE1	1:Q:342:HIS:CD2	2.35	0.43
1:E:549:ASN:HB2	1:E:553:HIS:O	2.18	0.43
1:F:356:PHE:HE1	1:F:358:GLN:NE2	2.16	0.43
1:F:457:LYS:HD3	1:F:479:PRO:HG3	2.00	0.43
1:H:356:PHE:HE1	1:H:358:GLN:NE2	2.16	0.43
1:H:421:VAL:HG11	1:W:95:ARG:HG3	2.00	0.43
1:I:233:GLN:NE2	1:I:236:LYS:HB3	2.34	0.43
1:I:450:PRO:HB2	1:I:451:TRP:CD2	2.52	0.43
1:J:549:ASN:HB2	1:J:553:HIS:O	2.18	0.43
1:L:356:PHE:HE1	1:L:358:GLN:NE2	2.16	0.43
1:M:66:HIS:HD2	1:M:206:LYS:NZ	2.15	0.43
1:R:326:ARG:NH2	1:S:192:MET:HG3	2.33	0.43
1:R:549:ASN:HB2	1:R:553:HIS:O	2.18	0.43
1:S:331:HIS:HE1	1:U:342:HIS:CD2	2.36	0.43
1:T:192:MET:HG3	1:l:326:ARG:NH2	2.33	0.43
1:V:86:PHE:CD1	1:V:87:PRO:HD2	2.52	0.43
1:V:233:GLN:NE2	1:V:236:LYS:HB3	2.34	0.43
1:W:457:LYS:HD3	1:W:479:PRO:HG3	2.00	0.43
1:X:342:HIS:CD2	1:e:331:HIS:HE1	2.36	0.43
1:Z:342:HIS:CD2	1:3:331:HIS:HE1	2.36	0.43
1:Z:457:LYS:HD3	1:Z:479:PRO:HG3	2.00	0.43
1:a:331:HIS:HE1	1:8:342:HIS:CD2	2.36	0.43
1:b:66:HIS:HD2	1:b:206:LYS:NZ	2.15	0.43
1:b:82:ARG:NH1	1:b:236:LYS:HD3	2.33	0.43
1:c:356:PHE:HE1	1:c:358:GLN:NE2	2.16	0.43
1:c:378:ILE:HG13	1:c:393:GLN:HG2	1.99	0.43
1:d:326:ARG:NH2	1:l:192:MET:HG3	2.32	0.43
1:f:66:HIS:HD2	1:f:206:LYS:NZ	2.15	0.43
1:g:342:HIS:CD2	1:h:331:HIS:HE1	2.35	0.43
1:g:356:PHE:HE1	1:g:358:GLN:NE2	2.16	0.43
1:g:549:ASN:HB2	1:g:553:HIS:O	2.18	0.43
1:h:66:HIS:HD2	1:h:206:LYS:NZ	2.15	0.43
1:i:92:LEU:O	1:i:95:ARG:HG2	2.17	0.43
1:i:457:LYS:HD3	1:i:479:PRO:HG3	2.00	0.43
1:j:331:HIS:HE1	1:k:342:HIS:CD2	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:82:ARG:NH1	1:k:236:LYS:HD3	2.33	0.43
1:n:449:TYR:CB	1:n:559:MET:HB2	2.48	0.43
1:p:233:GLN:NE2	1:p:236:LYS:HB3	2.34	0.43
1:q:326:ARG:NH2	1:r:192:MET:HG3	2.33	0.43
1:s:82:ARG:NH1	1:s:236:LYS:HD3	2.33	0.43
1:u:66:HIS:HD2	1:u:206:LYS:NZ	2.15	0.43
1:v:457:LYS:HD3	1:v:479:PRO:HG3	2.00	0.43
1:y:457:LYS:HD3	1:y:479:PRO:HG3	2.00	0.43
1:z:82:ARG:NH1	1:z:236:LYS:HD3	2.33	0.43
1:z:103:HIS:HE1	1:z:105:GLN:OE1	2.00	0.43
1:1:331:HIS:HE1	1:2:342:HIS:CD2	2.36	0.43
1:2:457:LYS:HD3	1:2:479:PRO:HG3	2.00	0.43
1:2:549:ASN:HB2	1:2:553:HIS:O	2.18	0.43
1:5:326:ARG:NH2	1:6:192:MET:HG3	2.33	0.43
1:5:421:VAL:HG11	1:6:95:ARG:HG3	2.00	0.43
1:6:356:PHE:HE1	1:6:358:GLN:NE2	2.16	0.43
1:A:331:HIS:HE1	1:G:342:HIS:CD2	2.36	0.43
1:B:233:GLN:NE2	1:B:236:LYS:HB3	2.34	0.43
1:B:331:HIS:HE1	1:J:342:HIS:CD2	2.36	0.43
1:C:283:SER:O	1:C:287:THR:OG1	2.30	0.43
1:C:549:ASN:HB2	1:C:553:HIS:O	2.19	0.43
1:D:342:HIS:CD2	1:P:331:HIS:HE1	2.36	0.43
1:F:393:GLN:NE2	1:Q:318:SER:HB2	2.33	0.43
1:G:356:PHE:HE1	1:G:358:GLN:NE2	2.16	0.43
1:G:457:LYS:HD3	1:G:479:PRO:HG3	2.00	0.43
1:K:356:PHE:HE1	1:K:358:GLN:NE2	2.16	0.43
1:L:85:ARG:HG3	1:L:99:ASN:ND2	2.29	0.43
1:L:103:HIS:HE1	1:L:105:GLN:OE1	2.00	0.43
1:N:501:GLY:C	1:N:503:ASN:N	2.75	0.43
1:N:549:ASN:HB2	1:N:553:HIS:O	2.18	0.43
1:O:326:ARG:NH2	1:m:192:MET:HG3	2.33	0.43
1:P:449:TYR:CB	1:P:559:MET:HB2	2.48	0.43
1:P:549:ASN:HB2	1:P:553:HIS:O	2.18	0.43
1:Q:457:LYS:HD3	1:Q:479:PRO:HG3	2.00	0.43
1:R:421:VAL:HG11	1:S:95:ARG:HG3	2.00	0.43
1:T:457:LYS:HD3	1:T:479:PRO:HG3	2.00	0.43
1:U:82:ARG:NH1	1:U:236:LYS:HD3	2.33	0.43
1:V:66:HIS:HD2	1:V:206:LYS:NZ	2.15	0.43
1:V:92:LEU:O	1:V:95:ARG:HG2	2.17	0.43
1:W:356:PHE:HE1	1:W:358:GLN:NE2	2.16	0.43
1:X:233:GLN:NE2	1:X:236:LYS:HB3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:378:ILE:HG13	1:X:393:GLN:HG2	1.99	0.43
1:Y:501:GLY:C	1:Y:503:ASN:N	2.75	0.43
1:Z:82:ARG:NH1	1:Z:236:LYS:HD3	2.33	0.43
1:Z:331:HIS:HE1	1:4:342:HIS:CD2	2.35	0.43
1:b:233:GLN:NE2	1:b:236:LYS:HB3	2.34	0.43
1:c:331:HIS:HE1	1:o:342:HIS:CD2	2.36	0.43
1:c:449:TYR:CB	1:c:559:MET:HB2	2.48	0.43
1:e:356:PHE:HE1	1:e:358:GLN:NE2	2.16	0.43
1:e:378:ILE:HG13	1:e:393:GLN:HG2	1.99	0.43
1:f:233:GLN:NE2	1:f:236:LYS:HB3	2.34	0.43
1:g:82:ARG:NH1	1:g:236:LYS:HD3	2.33	0.43
1:g:235:LYS:HZ3	1:h:363:THR:H	1.66	0.43
1:g:501:GLY:C	1:g:503:ASN:N	2.75	0.43
1:m:378:ILE:HG13	1:m:393:GLN:HG2	1.99	0.43
1:m:457:LYS:HD3	1:m:479:PRO:HG3	2.00	0.43
1:n:59:CYS:HB2	1:n:517:LEU:CD1	2.48	0.43
1:o:356:PHE:HE1	1:o:358:GLN:NE2	2.16	0.43
1:p:86:PHE:CD1	1:p:87:PRO:HD2	2.52	0.43
1:q:421:VAL:HG11	1:r:95:ARG:HG3	2.00	0.43
1:q:549:ASN:HB2	1:q:553:HIS:O	2.18	0.43
1:t:192:MET:HG3	1:v:326:ARG:NH2	2.32	0.43
1:t:457:LYS:HD3	1:t:479:PRO:HG3	2.00	0.43
1:u:233:GLN:NE2	1:u:236:LYS:HB3	2.34	0.43
1:w:549:ASN:HB2	1:w:553:HIS:O	2.18	0.43
1:x:289:SER:HA	1:y:188:VAL:HB	2.00	0.43
1:x:457:LYS:HD3	1:x:479:PRO:HG3	2.00	0.43
1:y:356:PHE:HE1	1:y:358:GLN:NE2	2.16	0.43
1:1:326:ARG:NH2	1:2:192:MET:HG3	2.33	0.43
1:1:549:ASN:HB2	1:1:553:HIS:O	2.18	0.43
1:3:549:ASN:HB2	1:3:553:HIS:O	2.18	0.43
1:6:457:LYS:HD3	1:6:479:PRO:HG3	2.00	0.43
1:8:356:PHE:HE1	1:8:358:GLN:NE2	2.16	0.43
1:A:393:GLN:NE2	1:I:318:SER:HB2	2.33	0.43
1:B:326:ARG:NH2	1:J:192:MET:HG3	2.33	0.43
1:B:342:HIS:CD2	1:L:331:HIS:HE1	2.36	0.43
1:B:378:ILE:HG13	1:B:393:GLN:HG2	1.99	0.43
1:B:457:LYS:HD3	1:B:479:PRO:HG3	2.00	0.43
1:B:549:ASN:HB2	1:B:553:HIS:O	2.18	0.43
1:C:59:CYS:HB2	1:C:517:LEU:CD1	2.49	0.43
1:C:326:ARG:NH2	1:b:192:MET:HG3	2.31	0.43
1:F:456:THR:OG1	1:Q:329:ASN:ND2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:331:HIS:HE1	1:W:342:HIS:CD2	2.36	0.43
1:L:82:ARG:NH1	1:L:236:LYS:HD3	2.33	0.43
1:L:449:TYR:CB	1:L:559:MET:HB2	2.48	0.43
1:M:82:ARG:NH1	1:M:236:LYS:HD3	2.33	0.43
1:M:192:MET:HG3	1:b:326:ARG:NH2	2.32	0.43
1:O:66:HIS:HD2	1:O:206:LYS:NZ	2.15	0.43
1:O:86:PHE:CD1	1:O:87:PRO:HD2	2.52	0.43
1:Q:59:CYS:HB2	1:Q:517:LEU:CD1	2.48	0.43
1:S:59:CYS:HB2	1:S:517:LEU:CD1	2.48	0.43
1:S:549:ASN:HB2	1:S:553:HIS:O	2.18	0.43
1:T:378:ILE:HG13	1:T:393:GLN:HG2	2.00	0.43
1:T:415:ALA:O	1:d:339:TRP:HD1	2.02	0.43
1:V:549:ASN:HB2	1:V:553:HIS:O	2.19	0.43
1:W:421:VAL:HG11	1:Y:95:ARG:HG3	2.00	0.43
1:X:356:PHE:HE1	1:X:358:GLN:NE2	2.16	0.43
1:Z:501:GLY:C	1:Z:503:ASN:N	2.75	0.43
1:a:549:ASN:HB2	1:a:553:HIS:O	2.18	0.43
1:b:378:ILE:HG13	1:b:393:GLN:HG2	1.99	0.43
1:c:457:LYS:HD3	1:c:479:PRO:HG3	2.00	0.43
1:d:59:CYS:HB2	1:d:517:LEU:CD1	2.49	0.43
1:e:39:THR:HG1	1:e:147:ASP:HB2	1.82	0.43
1:e:449:TYR:CB	1:e:559:MET:HB2	2.48	0.43
1:e:457:LYS:HD3	1:e:479:PRO:HG3	2.00	0.43
1:f:378:ILE:HG13	1:f:393:GLN:HG2	1.99	0.43
1:g:95:ARG:HG3	1:h:421:VAL:HG11	2.00	0.43
1:i:331:HIS:HE1	1:j:342:HIS:CD2	2.36	0.43
1:i:501:GLY:C	1:i:503:ASN:N	2.75	0.43
1:i:549:ASN:HB2	1:i:553:HIS:O	2.18	0.43
1:j:59:CYS:HB2	1:j:517:LEU:CD1	2.48	0.43
1:j:549:ASN:HB2	1:j:553:HIS:O	2.18	0.43
1:o:378:ILE:HG13	1:o:393:GLN:HG2	1.99	0.43
1:p:92:LEU:O	1:p:95:ARG:HG2	2.17	0.43
1:p:283:SER:O	1:p:287:THR:OG1	2.30	0.43
1:q:378:ILE:HG13	1:q:393:GLN:HG2	1.99	0.43
1:s:457:LYS:HD3	1:s:479:PRO:HG3	2.00	0.43
1:t:59:CYS:HB2	1:t:517:LEU:CD1	2.48	0.43
1:t:82:ARG:NH1	1:t:236:LYS:HD3	2.33	0.43
1:t:342:HIS:CD2	1:v:331:HIS:HE1	2.36	0.43
1:u:329:ASN:OD1	1:v:470:HIS:HB3	2.17	0.43
1:x:59:CYS:HB2	1:x:517:LEU:CD1	2.48	0.43
1:x:356:PHE:HE1	1:x:358:GLN:NE2	2.16	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:233:GLN:NE2	1:1:236:LYS:HB3	2.34	0.43
1:1:457:LYS:HD3	1:1:479:PRO:HG3	2.00	0.43
1:2:59:CYS:HB2	1:2:517:LEU:CD1	2.48	0.43
1:5:331:HIS:HE1	1:6:342:HIS:CD2	2.36	0.43
1:6:421:VAL:HG11	1:7:95:ARG:HG3	2.01	0.43
1:8:457:LYS:HD3	1:8:479:PRO:HG3	2.01	0.43
1:8:501:GLY:C	1:8:503:ASN:N	2.75	0.43
1:A:283:SER:O	1:A:287:THR:OG1	2.30	0.43
1:C:457:LYS:HD3	1:C:479:PRO:HG3	2.00	0.43
1:C:501:GLY:C	1:C:503:ASN:N	2.75	0.43
1:D:326:ARG:NH2	1:N:192:MET:HG3	2.33	0.43
1:D:356:PHE:HE1	1:D:358:GLN:NE2	2.16	0.43
1:D:421:VAL:HG11	1:N:95:ARG:HG3	2.00	0.43
1:G:59:CYS:HB2	1:G:517:LEU:CD1	2.49	0.43
1:I:549:ASN:HB2	1:I:553:HIS:O	2.18	0.43
1:J:449:TYR:CB	1:J:559:MET:HB2	2.48	0.43
1:K:449:TYR:CB	1:K:559:MET:HB2	2.48	0.43
1:L:233:GLN:NE2	1:L:236:LYS:HB3	2.33	0.43
1:O:59:CYS:HB2	1:O:517:LEU:CD1	2.48	0.43
1:O:192:MET:HG3	1:n:326:ARG:NH2	2.32	0.43
1:P:59:CYS:HB2	1:P:517:LEU:CD1	2.49	0.43
1:P:356:PHE:HE1	1:P:358:GLN:NE2	2.16	0.43
1:R:378:ILE:HG13	1:R:393:GLN:HG2	1.99	0.43
1:T:356:PHE:HE1	1:T:358:GLN:NE2	2.16	0.43
1:U:457:LYS:HD3	1:U:479:PRO:HG3	2.00	0.43
1:V:356:PHE:HE1	1:V:358:GLN:NE2	2.16	0.43
1:Y:314:TRP:CE2	1:Y:327:VAL:HA	2.54	0.43
1:Z:95:ARG:HG3	1:3:421:VAL:HG11	2.01	0.43
1:Z:356:PHE:HE1	1:Z:358:GLN:NE2	2.16	0.43
1:a:314:TRP:CE2	1:a:327:VAL:HA	2.54	0.43
1:b:59:CYS:HB2	1:b:517:LEU:CD1	2.49	0.43
1:f:59:CYS:HB2	1:f:517:LEU:CD1	2.49	0.43
1:g:59:CYS:HB2	1:g:517:LEU:CD1	2.49	0.43
1:g:154:VAL:HG22	1:g:167:TYR:CE1	2.48	0.43
1:g:283:SER:O	1:g:287:THR:OG1	2.30	0.43
1:g:457:LYS:HD3	1:g:479:PRO:HG3	2.00	0.43
1:h:82:ARG:NH1	1:h:236:LYS:HD3	2.33	0.43
1:h:449:TYR:CB	1:h:559:MET:HB2	2.48	0.43
1:i:95:ARG:HG3	1:k:421:VAL:HG11	2.01	0.43
1:j:356:PHE:HE1	1:j:358:GLN:NE2	2.16	0.43
1:j:421:VAL:HG11	1:k:95:ARG:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:457:LYS:HD3	1:j:479:PRO:HG3	2.00	0.43
1:k:59:CYS:HB2	1:k:517:LEU:CD1	2.48	0.43
1:l:59:CYS:HB2	1:l:517:LEU:CD1	2.48	0.43
1:l:86:PHE:CD1	1:l:87:PRO:HD2	2.52	0.43
1:l:549:ASN:HB2	1:l:553:HIS:O	2.18	0.43
1:m:415:ALA:O	1:n:339:TRP:HD1	2.02	0.43
1:p:356:PHE:HE1	1:p:358:GLN:NE2	2.16	0.43
1:p:549:ASN:HB2	1:p:553:HIS:O	2.19	0.43
1:r:59:CYS:HB2	1:r:517:LEU:CD1	2.48	0.43
1:r:549:ASN:HB2	1:r:553:HIS:O	2.18	0.43
1:u:549:ASN:HB2	1:u:553:HIS:O	2.18	0.43
1:w:415:ALA:O	1:x:339:TRP:HD1	2.01	0.43
1:x:318:SER:HB2	1:y:393:GLN:NE2	2.34	0.43
1:z:233:GLN:NE2	1:z:236:LYS:HB3	2.33	0.43
1:z:449:TYR:CB	1:z:559:MET:HB2	2.48	0.43
1:1:378:ILE:HG13	1:1:393:GLN:HG2	1.99	0.43
1:3:235:LYS:HZ1	1:4:363:THR:H	1.67	0.43
1:4:356:PHE:HE1	1:4:358:GLN:NE2	2.16	0.43
1:4:549:ASN:HB2	1:4:553:HIS:O	2.18	0.43
1:8:59:CYS:HB2	1:8:517:LEU:CD1	2.48	0.43
1:A:59:CYS:HB2	1:A:517:LEU:CD1	2.48	0.43
1:C:329:ASN:OD1	1:b:470:HIS:HB3	2.17	0.43
1:D:59:CYS:HB2	1:D:517:LEU:CD1	2.49	0.43
1:D:95:ARG:HG3	1:P:421:VAL:HG11	2.00	0.43
1:F:82:ARG:NH1	1:F:236:LYS:HD3	2.33	0.43
1:G:82:ARG:NH1	1:G:236:LYS:HD3	2.33	0.43
1:J:59:CYS:HB2	1:J:517:LEU:CD1	2.49	0.43
1:K:549:ASN:HB2	1:K:553:HIS:O	2.18	0.43
1:L:549:ASN:HB2	1:L:553:HIS:O	2.18	0.43
1:M:449:TYR:CB	1:M:559:MET:HB2	2.48	0.43
1:M:549:ASN:HB2	1:M:553:HIS:O	2.18	0.43
1:O:378:ILE:HG13	1:O:393:GLN:HG2	1.99	0.43
1:Q:356:PHE:HE1	1:Q:358:GLN:NE2	2.16	0.43
1:R:342:HIS:CD2	1:U:331:HIS:HE1	2.35	0.43
1:S:356:PHE:HE1	1:S:358:GLN:NE2	2.16	0.43
1:V:415:ALA:O	1:e:339:TRP:HD1	2.02	0.43
1:W:59:CYS:HB2	1:W:517:LEU:CD1	2.48	0.43
1:W:314:TRP:CE2	1:W:327:VAL:HA	2.54	0.43
1:X:283:SER:O	1:X:287:THR:OG1	2.30	0.43
1:X:450:PRO:HB2	1:X:451:TRP:CD2	2.52	0.43
1:Z:59:CYS:HB2	1:Z:517:LEU:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:233:GLN:NE2	1:Z:236:LYS:HB3	2.34	0.43
1:a:421:VAL:HG11	1:8:95:ARG:HG3	2.01	0.43
1:c:339:TRP:HD1	1:p:415:ALA:O	2.02	0.43
1:d:233:GLN:NE2	1:d:236:LYS:HB3	2.34	0.43
1:h:457:LYS:HD3	1:h:479:PRO:HG3	2.00	0.43
1:i:192:MET:HG3	1:k:326:ARG:NH2	2.33	0.43
1:i:421:VAL:HG11	1:j:95:ARG:HG3	2.01	0.43
1:j:66:HIS:HD2	1:j:206:LYS:NZ	2.15	0.43
1:k:378:ILE:HG13	1:k:393:GLN:HG2	1.99	0.43
1:l:66:HIS:HD2	1:l:206:LYS:NZ	2.15	0.43
1:m:356:PHE:HE1	1:m:358:GLN:NE2	2.16	0.43
1:n:66:HIS:HD2	1:n:206:LYS:NZ	2.15	0.43
1:o:283:SER:O	1:o:287:THR:OG1	2.30	0.43
1:q:342:HIS:CD2	1:s:331:HIS:HE1	2.36	0.43
1:r:356:PHE:HE1	1:r:358:GLN:NE2	2.16	0.43
1:s:549:ASN:HB2	1:s:553:HIS:O	2.18	0.43
1:w:356:PHE:HE1	1:w:358:GLN:NE2	2.16	0.43
1:x:329:ASN:ND2	1:y:456:THR:OG1	2.50	0.43
1:z:85:ARG:HG3	1:z:99:ASN:ND2	2.29	0.43
1:z:549:ASN:HB2	1:z:553:HIS:O	2.18	0.43
1:2:449:TYR:CB	1:2:559:MET:HB2	2.48	0.43
1:6:314:TRP:CE2	1:6:327:VAL:HA	2.54	0.43
1:7:314:TRP:CE2	1:7:327:VAL:HA	2.54	0.43
1:8:82:ARG:NH1	1:8:236:LYS:HD3	2.33	0.43
1:8:233:GLN:NE2	1:8:236:LYS:HB3	2.34	0.43
1:B:82:ARG:NH1	1:B:236:LYS:HD3	2.33	0.43
1:B:258:ARG:HG3	1:C:37:HIS:C	2.43	0.43
1:B:314:TRP:CE2	1:B:327:VAL:HA	2.54	0.43
1:C:154:VAL:HG22	1:C:167:TYR:CE1	2.48	0.43
1:C:192:MET:HG3	1:M:326:ARG:NH2	2.32	0.43
1:C:233:GLN:NE2	1:C:236:LYS:HB3	2.34	0.43
1:C:326:ARG:HD3	1:b:193:TYR:CE2	2.53	0.43
1:D:457:LYS:HD3	1:D:479:PRO:HG3	2.00	0.43
1:H:549:ASN:HB2	1:H:553:HIS:O	2.18	0.43
1:K:59:CYS:HB2	1:K:517:LEU:CD1	2.49	0.43
1:M:242:ASP:OD1	1:b:279:TYR:OH	2.34	0.43
1:N:421:VAL:HG11	1:P:95:ARG:HG3	2.01	0.43
1:O:549:ASN:HB2	1:O:553:HIS:O	2.18	0.43
1:P:66:HIS:HD2	1:P:206:LYS:NZ	2.15	0.43
1:P:82:ARG:NH1	1:P:236:LYS:HD3	2.33	0.43
1:P:457:LYS:HD3	1:P:479:PRO:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:283:SER:O	1:R:287:THR:OG1	2.30	0.43
1:U:378:ILE:HG13	1:U:393:GLN:HG2	1.99	0.43
1:U:450:PRO:HB2	1:U:451:TRP:CD2	2.52	0.43
1:U:549:ASN:HB2	1:U:553:HIS:O	2.18	0.43
1:V:314:TRP:CE2	1:V:327:VAL:HA	2.54	0.43
1:V:378:ILE:HG13	1:V:393:GLN:HG2	1.99	0.43
1:Y:549:ASN:HB3	1:Y:553:HIS:H	1.84	0.43
1:c:95:ARG:HG3	1:p:421:VAL:HG11	2.00	0.43
1:g:233:GLN:NE2	1:g:236:LYS:HB3	2.33	0.43
1:g:314:TRP:CE2	1:g:327:VAL:HA	2.54	0.43
1:h:549:ASN:HB2	1:h:553:HIS:O	2.18	0.43
1:i:85:ARG:NH2	1:i:96:ASP:OD2	2.52	0.43
1:j:82:ARG:NH1	1:j:236:LYS:HD3	2.33	0.43
1:k:356:PHE:HE1	1:k:358:GLN:NE2	2.16	0.43
1:k:457:LYS:HD3	1:k:479:PRO:HG3	2.00	0.43
1:l:378:ILE:HG13	1:l:393:GLN:HG2	1.99	0.43
1:n:233:GLN:NE2	1:n:236:LYS:HB3	2.34	0.43
1:o:450:PRO:HB2	1:o:451:TRP:CD2	2.52	0.43
1:p:314:TRP:CE2	1:p:327:VAL:HA	2.54	0.43
1:q:66:HIS:HD2	1:q:206:LYS:NZ	2.15	0.43
1:q:233:GLN:NE2	1:q:236:LYS:HB3	2.33	0.43
1:t:241:ASP:N	1:t:241:ASP:OD1	2.48	0.43
1:v:59:CYS:HB2	1:v:517:LEU:CD1	2.49	0.43
1:v:283:SER:O	1:v:287:THR:OG1	2.30	0.43
1:z:457:LYS:HD3	1:z:479:PRO:HG3	2.00	0.43
1:1:314:TRP:CE2	1:1:327:VAL:HA	2.54	0.43
1:1:356:PHE:HE1	1:1:358:GLN:NE2	2.16	0.43
1:3:314:TRP:CE2	1:3:327:VAL:HA	2.54	0.43
1:4:59:CYS:HB2	1:4:517:LEU:CD1	2.48	0.43
1:4:449:TYR:CB	1:4:559:MET:HB2	2.48	0.43
1:7:501:GLY:C	1:7:503:ASN:N	2.75	0.43
1:7:549:ASN:HB3	1:7:553:HIS:H	1.84	0.43
1:B:356:PHE:HE1	1:B:358:GLN:NE2	2.16	0.43
1:C:314:TRP:CE2	1:C:327:VAL:HA	2.54	0.43
1:D:339:TRP:HD1	1:P:415:ALA:O	2.02	0.43
1:D:378:ILE:HG13	1:D:393:GLN:HG2	1.99	0.43
1:E:85:ARG:NH2	1:E:96:ASP:OD2	2.52	0.43
1:I:314:TRP:CE2	1:I:327:VAL:HA	2.54	0.43
1:J:233:GLN:NE2	1:J:236:LYS:HB3	2.33	0.43
1:K:415:ALA:O	1:a:339:TRP:HD1	2.02	0.43
1:K:421:VAL:HG11	1:a:95:ARG:HG3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:85:ARG:NH2	1:L:96:ASP:OD2	2.52	0.43
1:L:457:LYS:HD3	1:L:479:PRO:HG3	2.00	0.43
1:M:457:LYS:HD3	1:M:479:PRO:HG3	2.01	0.43
1:N:85:ARG:NH2	1:N:96:ASP:OD2	2.52	0.43
1:N:357:SER:HB2	1:N:398:ASN:O	2.19	0.43
1:N:549:ASN:HB3	1:N:553:HIS:H	1.84	0.43
1:O:314:TRP:CE2	1:O:327:VAL:HA	2.54	0.43
1:O:421:VAL:HG11	1:m:95:ARG:HG3	2.00	0.43
1:P:85:ARG:NH2	1:P:96:ASP:OD2	2.52	0.43
1:P:233:GLN:NE2	1:P:236:LYS:HB3	2.34	0.43
1:P:378:ILE:HG13	1:P:393:GLN:HG2	1.99	0.43
1:R:66:HIS:HD2	1:R:206:LYS:NZ	2.15	0.43
1:R:233:GLN:NE2	1:R:236:LYS:HB3	2.34	0.43
1:T:95:ARG:HG3	1:l:421:VAL:HG11	2.00	0.43
1:W:85:ARG:NH2	1:W:96:ASP:OD2	2.52	0.43
1:W:233:GLN:NE2	1:W:236:LYS:HB3	2.33	0.43
1:X:549:ASN:HB2	1:X:553:HIS:O	2.18	0.43
1:Z:357:SER:HB2	1:Z:398:ASN:O	2.19	0.43
1:c:279:TYR:OH	1:o:242:ASP:OD1	2.35	0.43
1:d:66:HIS:HD2	1:d:206:LYS:NZ	2.15	0.43
1:d:357:SER:HB2	1:d:398:ASN:O	2.19	0.43
1:d:501:GLY:C	1:d:503:ASN:N	2.75	0.43
1:f:192:MET:HG3	1:g:326:ARG:NH2	2.33	0.43
1:f:279:TYR:OH	1:h:242:ASP:OD1	2.34	0.43
1:h:378:ILE:HG13	1:h:393:GLN:HG2	1.99	0.43
1:i:357:SER:HB2	1:i:398:ASN:O	2.19	0.43
1:i:549:ASN:HB3	1:i:553:HIS:H	1.84	0.43
1:j:85:ARG:NH2	1:j:96:ASP:OD2	2.52	0.43
1:k:549:ASN:HB2	1:k:553:HIS:O	2.18	0.43
1:l:314:TRP:CE2	1:l:327:VAL:HA	2.54	0.43
1:l:449:TYR:CB	1:l:559:MET:HB2	2.48	0.43
1:m:326:ARG:NH2	1:n:192:MET:HG3	2.33	0.43
1:n:357:SER:HB2	1:n:398:ASN:O	2.19	0.43
1:n:501:GLY:C	1:n:503:ASN:N	2.75	0.43
1:p:378:ILE:HG13	1:p:393:GLN:HG2	1.99	0.43
1:q:356:PHE:HE1	1:q:358:GLN:NE2	2.16	0.43
1:q:549:ASN:HB3	1:q:553:HIS:H	1.84	0.43
1:s:356:PHE:HE1	1:s:358:GLN:NE2	2.16	0.43
1:s:378:ILE:HG13	1:s:393:GLN:HG2	1.99	0.43
1:s:450:PRO:HB2	1:s:451:TRP:CD2	2.52	0.43
1:t:95:ARG:HG3	1:v:421:VAL:HG11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:85:ARG:NH2	1:w:96:ASP:OD2	2.52	0.43
1:y:59:CYS:HB2	1:y:517:LEU:CD1	2.48	0.43
1:y:82:ARG:NH1	1:y:236:LYS:HD3	2.33	0.43
1:z:85:ARG:NH2	1:z:96:ASP:OD2	2.52	0.43
1:1:82:ARG:NH1	1:1:236:LYS:HD3	2.33	0.43
1:2:314:TRP:CE2	1:2:327:VAL:HA	2.54	0.43
1:3:457:LYS:HD3	1:3:479:PRO:HG3	2.00	0.43
1:5:549:ASN:HB2	1:5:553:HIS:O	2.18	0.43
1:8:357:SER:HB2	1:8:398:ASN:O	2.19	0.43
1:B:339:TRP:HD1	1:L:415:ALA:O	2.02	0.43
1:C:549:ASN:HB3	1:C:553:HIS:H	1.84	0.43
1:D:314:TRP:CE2	1:D:327:VAL:HA	2.54	0.43
1:D:549:ASN:HB2	1:D:553:HIS:O	2.18	0.43
1:E:356:PHE:HE1	1:E:358:GLN:NE2	2.16	0.43
1:E:378:ILE:HG13	1:E:393:GLN:HG2	1.99	0.43
1:F:339:TRP:HD1	1:Q:415:ALA:O	2.02	0.43
1:G:326:ARG:NH2	1:I:192:MET:HG3	2.33	0.43
1:H:357:SER:HB2	1:H:398:ASN:O	2.19	0.43
1:J:314:TRP:CE2	1:J:327:VAL:HA	2.54	0.43
1:J:356:PHE:HE1	1:J:358:GLN:NE2	2.16	0.43
1:K:82:ARG:NH1	1:K:236:LYS:HD3	2.33	0.43
1:N:233:GLN:NE2	1:N:236:LYS:HB3	2.33	0.43
1:O:92:LEU:O	1:O:95:ARG:HG2	2.17	0.43
1:O:449:TYR:CB	1:O:559:MET:HB2	2.48	0.43
1:R:356:PHE:HE1	1:R:358:GLN:NE2	2.16	0.43
1:R:415:ALA:O	1:S:339:TRP:HD1	2.02	0.43
1:T:326:ARG:NH2	1:d:192:MET:HG3	2.33	0.43
1:V:357:SER:HB2	1:V:398:ASN:O	2.19	0.43
1:V:421:VAL:HG11	1:e:95:ARG:HG3	2.00	0.43
1:X:314:TRP:CE2	1:X:327:VAL:HA	2.54	0.43
1:Y:233:GLN:NE2	1:Y:236:LYS:HB3	2.34	0.43
1:Y:356:PHE:HE1	1:Y:358:GLN:NE2	2.16	0.43
1:Y:449:TYR:CB	1:Y:559:MET:HB2	2.48	0.43
1:a:457:LYS:HD3	1:a:479:PRO:HG3	2.00	0.43
1:c:549:ASN:HB2	1:c:553:HIS:O	2.18	0.43
1:d:85:ARG:NH2	1:d:96:ASP:OD2	2.52	0.43
1:d:549:ASN:HB3	1:d:553:HIS:H	1.84	0.43
1:g:73:GLU:OE1	1:g:486:LYS:NZ	2.41	0.43
1:j:233:GLN:NE2	1:j:236:LYS:HB3	2.34	0.43
1:j:314:TRP:CE2	1:j:327:VAL:HA	2.54	0.43
1:j:378:ILE:HG13	1:j:393:GLN:HG2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:415:ALA:O	1:k:339:TRP:HD1	2.02	0.43
1:l:457:LYS:HD3	1:l:479:PRO:HG3	2.00	0.43
1:n:85:ARG:NH2	1:n:96:ASP:OD2	2.52	0.43
1:o:549:ASN:HB2	1:o:553:HIS:O	2.18	0.43
1:p:457:LYS:HD3	1:p:479:PRO:HG3	2.00	0.43
1:q:415:ALA:O	1:r:339:TRP:HD1	2.02	0.43
1:r:421:VAL:HG11	1:s:95:ARG:HG3	2.00	0.43
1:r:457:LYS:HD3	1:r:479:PRO:HG3	2.00	0.43
1:s:314:TRP:CE2	1:s:327:VAL:HA	2.54	0.43
1:t:326:ARG:NH2	1:u:192:MET:HG3	2.33	0.43
1:w:378:ILE:HG13	1:w:393:GLN:HG2	1.99	0.43
1:z:415:ALA:O	1:1:339:TRP:HD1	2.02	0.43
1:2:356:PHE:HE1	1:2:358:GLN:NE2	2.16	0.43
1:3:95:ARG:HG3	1:4:421:VAL:HG11	2.00	0.43
1:3:339:TRP:HD1	1:4:415:ALA:O	2.02	0.43
1:6:85:ARG:NH2	1:6:96:ASP:OD2	2.52	0.43
1:8:314:TRP:CE2	1:8:327:VAL:HA	2.54	0.43
1:A:188:VAL:HB	1:I:289:SER:HA	2.00	0.43
1:C:85:ARG:NH2	1:C:96:ASP:OD2	2.52	0.43
1:E:415:ALA:O	1:Q:339:TRP:HD1	2.02	0.43
1:F:59:CYS:HB2	1:F:517:LEU:CD1	2.49	0.43
1:I:59:CYS:HB2	1:I:517:LEU:CD1	2.48	0.43
1:I:356:PHE:HE1	1:I:358:GLN:NE2	2.16	0.43
1:L:40:GLY:HA3	1:L:147:ASP:OD2	2.19	0.43
1:L:59:CYS:HB2	1:L:517:LEU:CD1	2.48	0.43
1:M:378:ILE:HG13	1:M:393:GLN:HG2	1.99	0.43
1:O:549:ASN:HB3	1:O:553:HIS:H	1.84	0.43
1:P:40:GLY:HA3	1:P:147:ASP:OD2	2.19	0.43
1:P:57:ILE:HB	1:P:519:LEU:HB2	2.01	0.43
1:R:501:GLY:C	1:R:503:ASN:N	2.75	0.43
1:R:549:ASN:HB3	1:R:553:HIS:H	1.84	0.43
1:S:326:ARG:NH2	1:U:192:MET:HG3	2.33	0.43
1:U:356:PHE:HE1	1:U:358:GLN:NE2	2.16	0.43
1:V:457:LYS:HD3	1:V:479:PRO:HG3	2.00	0.43
1:X:40:GLY:HA3	1:X:147:ASP:OD2	2.19	0.43
1:Z:314:TRP:CE2	1:Z:327:VAL:HA	2.54	0.43
1:c:549:ASN:HB3	1:c:553:HIS:H	1.84	0.43
1:d:457:LYS:HD3	1:d:479:PRO:HG3	2.00	0.43
1:e:549:ASN:HB2	1:e:553:HIS:O	2.18	0.43
1:f:326:ARG:NH2	1:h:192:MET:HG3	2.33	0.43
1:g:549:ASN:HB3	1:g:553:HIS:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:85:ARG:NH2	1:h:96:ASP:OD2	2.52	0.43
1:i:233:GLN:NE2	1:i:236:LYS:HB3	2.33	0.43
1:i:339:TRP:HD1	1:k:415:ALA:O	2.02	0.43
1:j:57:ILE:HB	1:j:519:LEU:HB2	2.01	0.43
1:k:314:TRP:CE2	1:k:327:VAL:HA	2.54	0.43
1:k:501:GLY:C	1:k:503:ASN:N	2.75	0.43
1:n:457:LYS:HD3	1:n:479:PRO:HG3	2.00	0.43
1:n:549:ASN:HB3	1:n:553:HIS:H	1.84	0.43
1:o:40:GLY:HA3	1:o:147:ASP:OD2	2.19	0.43
1:o:314:TRP:CE2	1:o:327:VAL:HA	2.54	0.43
1:p:357:SER:HB2	1:p:398:ASN:O	2.19	0.43
1:q:501:GLY:C	1:q:503:ASN:N	2.75	0.43
1:r:326:ARG:NH2	1:s:192:MET:HG3	2.33	0.43
1:t:318:SER:HB2	1:u:393:GLN:NE2	2.34	0.43
1:u:314:TRP:CE2	1:u:327:VAL:HA	2.54	0.43
1:x:357:SER:HB2	1:x:398:ASN:O	2.19	0.43
1:y:549:ASN:HB2	1:y:553:HIS:O	2.18	0.43
1:z:40:GLY:HA3	1:z:147:ASP:OD2	2.19	0.43
1:z:314:TRP:CE2	1:z:327:VAL:HA	2.54	0.43
1:4:82:ARG:NH1	1:4:236:LYS:HD3	2.33	0.43
1:5:357:SER:HB2	1:5:398:ASN:O	2.19	0.43
1:6:233:GLN:NE2	1:6:236:LYS:HB3	2.34	0.43
1:7:85:ARG:NH2	1:7:96:ASP:OD2	2.52	0.43
1:7:233:GLN:NE2	1:7:236:LYS:HB3	2.34	0.43
1:7:356:PHE:HE1	1:7:358:GLN:NE2	2.16	0.43
1:7:449:TYR:CB	1:7:559:MET:HB2	2.48	0.43
1:8:549:ASN:HB2	1:8:553:HIS:O	2.18	0.43
1:A:421:VAL:HG11	1:G:95:ARG:HG3	2.01	0.43
1:A:549:ASN:HB2	1:A:553:HIS:O	2.18	0.43
1:D:233:GLN:NE2	1:D:236:LYS:HB3	2.33	0.43
1:D:357:SER:HB2	1:D:398:ASN:O	2.19	0.43
1:D:501:GLY:C	1:D:503:ASN:N	2.75	0.43
1:E:393:GLN:NE2	1:F:318:SER:HB2	2.34	0.43
1:H:38:SER:HB2	1:H:148:ASN:HD21	1.84	0.43
1:J:57:ILE:HB	1:J:519:LEU:HB2	2.01	0.43
1:K:40:GLY:HA3	1:K:147:ASP:OD2	2.19	0.43
1:K:457:LYS:HD3	1:K:479:PRO:HG3	2.00	0.43
1:L:314:TRP:CE2	1:L:327:VAL:HA	2.54	0.43
1:M:85:ARG:NH2	1:M:96:ASP:OD2	2.52	0.43
1:N:40:GLY:HA3	1:N:147:ASP:OD2	2.19	0.43
1:N:59:CYS:HB2	1:N:517:LEU:CD1	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:457:LYS:HD3	1:O:479:PRO:HG3	2.00	0.43
1:P:314:TRP:CE2	1:P:327:VAL:HA	2.54	0.43
1:Q:85:ARG:HG3	1:Q:99:ASN:ND2	2.29	0.43
1:Q:85:ARG:NH2	1:Q:96:ASP:OD2	2.52	0.43
1:Q:357:SER:HB2	1:Q:398:ASN:O	2.19	0.43
1:Q:501:GLY:C	1:Q:503:ASN:N	2.75	0.43
1:S:85:ARG:HG3	1:S:99:ASN:ND2	2.29	0.43
1:S:314:TRP:CE2	1:S:327:VAL:HA	2.54	0.43
1:S:357:SER:HB2	1:S:398:ASN:O	2.19	0.43
1:S:421:VAL:HG11	1:U:95:ARG:HG3	2.00	0.43
1:T:186:PRO:O	1:T:210:TYR:OH	2.34	0.43
1:T:314:TRP:CE2	1:T:327:VAL:HA	2.54	0.43
1:U:314:TRP:CE2	1:U:327:VAL:HA	2.54	0.43
1:X:152:LYS:HA	1:X:169:ASN:HA	2.01	0.43
1:X:242:ASP:OD1	1:e:279:TYR:OH	2.35	0.43
1:X:549:ASN:HB3	1:X:553:HIS:H	1.84	0.43
1:Y:85:ARG:NH2	1:Y:96:ASP:OD2	2.52	0.43
1:Y:457:LYS:HD3	1:Y:479:PRO:HG3	2.00	0.43
1:Z:57:ILE:HB	1:Z:519:LEU:HB2	2.01	0.43
1:Z:549:ASN:HB2	1:Z:553:HIS:O	2.18	0.43
1:a:326:ARG:NH2	1:8:192:MET:HG3	2.32	0.43
1:a:357:SER:HB2	1:a:398:ASN:O	2.19	0.43
1:b:314:TRP:CE2	1:b:327:VAL:HA	2.54	0.43
1:c:57:ILE:HB	1:c:519:LEU:HB2	2.01	0.43
1:e:57:ILE:HB	1:e:519:LEU:HB2	2.01	0.43
1:e:357:SER:HB2	1:e:398:ASN:O	2.19	0.43
1:e:501:GLY:C	1:e:503:ASN:N	2.75	0.43
1:e:549:ASN:HB3	1:e:553:HIS:H	1.84	0.43
1:f:95:ARG:HG3	1:g:421:VAL:HG11	2.00	0.43
1:f:339:TRP:HD1	1:g:415:ALA:O	2.01	0.43
1:g:85:ARG:NH2	1:g:96:ASP:OD2	2.52	0.43
1:g:396:GLN:OE1	1:g:448:GLN:NE2	2.52	0.43
1:i:40:GLY:HA3	1:i:147:ASP:OD2	2.19	0.43
1:i:59:CYS:HB2	1:i:517:LEU:CD1	2.48	0.43
1:j:40:GLY:HA3	1:j:147:ASP:OD2	2.19	0.43
1:k:357:SER:HB2	1:k:398:ASN:O	2.19	0.43
1:l:549:ASN:HB3	1:l:553:HIS:H	1.84	0.43
1:m:186:PRO:O	1:m:210:TYR:OH	2.34	0.43
1:m:501:GLY:C	1:m:503:ASN:N	2.75	0.43
1:m:549:ASN:HB2	1:m:553:HIS:O	2.18	0.43
1:n:57:ILE:HB	1:n:519:LEU:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:457:LYS:HD3	1:o:479:PRO:HG3	2.00	0.43
1:o:549:ASN:HB3	1:o:553:HIS:H	1.84	0.43
1:p:38:SER:HB2	1:p:148:ASN:HD21	1.84	0.43
1:q:283:SER:O	1:q:287:THR:OG1	2.30	0.43
1:q:339:TRP:HD1	1:s:415:ALA:O	2.02	0.43
1:r:314:TRP:CE2	1:r:327:VAL:HA	2.54	0.43
1:r:549:ASN:HB3	1:r:553:HIS:H	1.84	0.43
1:u:318:SER:HB2	1:v:393:GLN:NE2	2.34	0.43
1:u:326:ARG:NH2	1:v:192:MET:HG3	2.33	0.43
1:u:331:HIS:HE1	1:v:342:HIS:CD2	2.37	0.43
1:v:501:GLY:C	1:v:503:ASN:N	2.75	0.43
1:v:549:ASN:HB2	1:v:553:HIS:O	2.18	0.43
1:w:82:ARG:NH1	1:w:236:LYS:HD3	2.33	0.43
1:w:152:LYS:HA	1:w:169:ASN:HA	2.01	0.43
1:x:85:ARG:HG3	1:x:99:ASN:ND2	2.29	0.43
1:x:85:ARG:NH2	1:x:96:ASP:OD2	2.52	0.43
1:x:501:GLY:C	1:x:503:ASN:N	2.75	0.43
1:z:59:CYS:HB2	1:z:517:LEU:CD1	2.48	0.43
1:1:40:GLY:HA3	1:1:147:ASP:OD2	2.19	0.43
1:1:413:HIS:CE1	1:1:428:TRP:HB2	2.54	0.43
1:2:85:ARG:NH2	1:2:96:ASP:OD2	2.52	0.43
1:2:233:GLN:NE2	1:2:236:LYS:HB3	2.34	0.43
1:3:233:GLN:NE2	1:3:236:LYS:HB3	2.34	0.43
1:3:357:SER:HB2	1:3:398:ASN:O	2.19	0.43
1:4:40:GLY:HA3	1:4:147:ASP:OD2	2.19	0.43
1:4:357:SER:HB2	1:4:398:ASN:O	2.19	0.43
1:5:415:ALA:O	1:6:339:TRP:HD1	2.02	0.43
1:8:57:ILE:HB	1:8:519:LEU:HB2	2.01	0.43
1:A:501:GLY:C	1:A:503:ASN:N	2.75	0.42
1:C:73:GLU:OE1	1:C:486:LYS:NZ	2.41	0.42
1:C:396:GLN:OE1	1:C:448:GLN:NE2	2.52	0.42
1:D:57:ILE:HB	1:D:519:LEU:HB2	2.01	0.42
1:D:415:ALA:O	1:N:339:TRP:HD1	2.02	0.42
1:D:456:THR:OG1	1:P:329:ASN:ND2	2.52	0.42
1:E:314:TRP:CE2	1:E:327:VAL:HA	2.54	0.42
1:F:57:ILE:HB	1:F:519:LEU:HB2	2.01	0.42
1:F:549:ASN:HB2	1:F:553:HIS:O	2.18	0.42
1:F:549:ASN:HB3	1:F:553:HIS:H	1.84	0.42
1:G:40:GLY:HA3	1:G:147:ASP:OD2	2.19	0.42
1:G:396:GLN:OE1	1:G:448:GLN:NE2	2.52	0.42
1:G:549:ASN:HB3	1:G:553:HIS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:415:ALA:O	1:W:339:TRP:HD1	2.02	0.42
1:J:85:ARG:NH2	1:J:96:ASP:OD2	2.52	0.42
1:J:326:ARG:NH2	1:L:192:MET:HG3	2.33	0.42
1:K:357:SER:HB2	1:K:398:ASN:O	2.19	0.42
1:Q:152:LYS:HA	1:Q:169:ASN:HA	2.01	0.42
1:Q:314:TRP:CE2	1:Q:327:VAL:HA	2.54	0.42
1:R:413:HIS:CE1	1:R:428:TRP:HB2	2.54	0.42
1:S:457:LYS:HD3	1:S:479:PRO:HG3	2.00	0.42
1:S:549:ASN:HB3	1:S:553:HIS:H	1.84	0.42
1:T:396:GLN:OE1	1:T:448:GLN:NE2	2.52	0.42
1:U:396:GLN:OE1	1:U:448:GLN:NE2	2.52	0.42
1:V:38:SER:HB2	1:V:148:ASN:HD21	1.84	0.42
1:X:396:GLN:OE1	1:X:448:GLN:NE2	2.52	0.42
1:X:457:LYS:HD3	1:X:479:PRO:HG3	2.00	0.42
1:Z:40:GLY:HA3	1:Z:147:ASP:OD2	2.19	0.42
1:a:40:GLY:HA3	1:a:147:ASP:OD2	2.19	0.42
1:a:233:GLN:NE2	1:a:236:LYS:HB3	2.34	0.42
1:a:396:GLN:OE1	1:a:448:GLN:NE2	2.52	0.42
1:b:356:PHE:HE1	1:b:358:GLN:NE2	2.16	0.42
1:b:357:SER:HB2	1:b:398:ASN:O	2.19	0.42
1:c:85:ARG:NH2	1:c:96:ASP:OD2	2.52	0.42
1:c:152:LYS:HA	1:c:169:ASN:HA	2.01	0.42
1:c:357:SER:HB2	1:c:398:ASN:O	2.19	0.42
1:c:396:GLN:OE1	1:c:448:GLN:NE2	2.52	0.42
1:c:501:GLY:C	1:c:503:ASN:N	2.75	0.42
1:d:57:ILE:HB	1:d:519:LEU:HB2	2.01	0.42
1:e:396:GLN:OE1	1:e:448:GLN:NE2	2.52	0.42
1:f:85:ARG:NH2	1:f:96:ASP:OD2	2.52	0.42
1:f:314:TRP:CE2	1:f:327:VAL:HA	2.54	0.42
1:g:85:ARG:HG3	1:g:99:ASN:ND2	2.29	0.42
1:j:92:LEU:O	1:j:95:ARG:HG2	2.17	0.42
1:j:329:ASN:ND2	1:k:456:THR:OG1	2.52	0.42
1:j:549:ASN:HB3	1:j:553:HIS:H	1.84	0.42
1:k:233:GLN:NE2	1:k:236:LYS:HB3	2.34	0.42
1:l:92:LEU:O	1:l:95:ARG:HG2	2.17	0.42
1:m:233:GLN:NE2	1:m:236:LYS:HB3	2.33	0.42
1:m:314:TRP:CE2	1:m:327:VAL:HA	2.54	0.42
1:m:396:GLN:OE1	1:m:448:GLN:NE2	2.52	0.42
1:n:549:ASN:HB2	1:n:553:HIS:O	2.18	0.42
1:o:75:TYR:OH	1:o:249:GLU:OE1	2.22	0.42
1:o:396:GLN:OE1	1:o:448:GLN:NE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:413:HIS:CE1	1:q:428:TRP:HB2	2.54	0.42
1:r:57:ILE:HB	1:r:519:LEU:HB2	2.01	0.42
1:r:357:SER:HB2	1:r:398:ASN:O	2.19	0.42
1:u:356:PHE:HE1	1:u:358:GLN:NE2	2.16	0.42
1:v:187:TRP:CE2	1:v:189:ALA:HB3	2.54	0.42
1:w:314:TRP:CE2	1:w:327:VAL:HA	2.54	0.42
1:x:233:GLN:NE2	1:x:236:LYS:HB3	2.34	0.42
1:x:314:TRP:CE2	1:x:327:VAL:HA	2.54	0.42
1:y:57:ILE:HB	1:y:519:LEU:HB2	2.01	0.42
1:z:192:MET:HG3	1:2:326:ARG:NH2	2.33	0.42
1:2:57:ILE:HB	1:2:519:LEU:HB2	2.01	0.42
1:3:40:GLY:HA3	1:3:147:ASP:OD2	2.19	0.42
1:3:396:GLN:OE1	1:3:448:GLN:NE2	2.52	0.42
1:4:152:LYS:HA	1:4:169:ASN:HA	2.01	0.42
1:4:457:LYS:HD3	1:4:479:PRO:HG3	2.00	0.42
1:5:38:SER:HB2	1:5:148:ASN:HD21	1.84	0.42
1:6:59:CYS:HB2	1:6:517:LEU:CD1	2.48	0.42
1:7:357:SER:HB2	1:7:398:ASN:O	2.19	0.42
1:A:187:TRP:CE2	1:A:189:ALA:HB3	2.54	0.42
1:A:233:GLN:NE2	1:A:236:LYS:HB3	2.34	0.42
1:A:342:HIS:HE1	1:I:406:ASN:HA	1.85	0.42
1:A:413:HIS:CE1	1:A:428:TRP:HB2	2.54	0.42
1:B:40:GLY:HA3	1:B:147:ASP:OD2	2.19	0.42
1:B:312:TRP:HB3	1:B:327:VAL:CG1	2.50	0.42
1:B:413:HIS:CE1	1:B:428:TRP:HB2	2.55	0.42
1:D:313:GLN:CD	1:D:321:MET:HA	2.45	0.42
1:E:38:SER:HB2	1:E:148:ASN:HD21	1.84	0.42
1:E:82:ARG:NH1	1:E:236:LYS:HD3	2.33	0.42
1:E:396:GLN:OE1	1:E:448:GLN:NE2	2.52	0.42
1:F:85:ARG:NH2	1:F:96:ASP:OD2	2.52	0.42
1:G:85:ARG:NH2	1:G:96:ASP:OD2	2.52	0.42
1:I:37:HIS:C	1:J:258:ARG:HG3	2.44	0.42
1:I:312:TRP:HB3	1:I:327:VAL:CG1	2.49	0.42
1:I:396:GLN:OE1	1:I:448:GLN:NE2	2.52	0.42
1:J:413:HIS:CE1	1:J:428:TRP:HB2	2.54	0.42
1:J:415:ALA:O	1:L:339:TRP:HD1	2.02	0.42
1:K:152:LYS:HA	1:K:169:ASN:HA	2.01	0.42
1:L:501:GLY:C	1:L:503:ASN:N	2.75	0.42
1:M:549:ASN:HB3	1:M:553:HIS:H	1.84	0.42
1:O:85:ARG:NH2	1:O:96:ASP:OD2	2.52	0.42
1:O:95:ARG:HG3	1:n:421:VAL:HG11	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:339:TRP:HD1	1:n:415:ALA:O	2.02	0.42
1:O:396:GLN:OE1	1:O:448:GLN:NE2	2.52	0.42
1:P:92:LEU:O	1:P:95:ARG:HG2	2.17	0.42
1:Q:233:GLN:NE2	1:Q:236:LYS:HB3	2.34	0.42
1:R:85:ARG:NH2	1:R:96:ASP:OD2	2.52	0.42
1:R:339:TRP:HD1	1:U:415:ALA:O	2.02	0.42
1:S:57:ILE:HB	1:S:519:LEU:HB2	2.01	0.42
1:S:85:ARG:NH2	1:S:96:ASP:OD2	2.52	0.42
1:S:233:GLN:NE2	1:S:236:LYS:HB3	2.33	0.42
1:T:38:SER:HB2	1:T:148:ASN:HD21	1.84	0.42
1:T:82:ARG:NH1	1:T:236:LYS:HD3	2.33	0.42
1:T:233:GLN:NE2	1:T:236:LYS:HB3	2.33	0.42
1:T:549:ASN:HB2	1:T:553:HIS:O	2.18	0.42
1:U:57:ILE:HB	1:U:519:LEU:HB2	2.01	0.42
1:V:57:ILE:HB	1:V:519:LEU:HB2	2.01	0.42
1:V:312:TRP:HB3	1:V:327:VAL:CG1	2.50	0.42
1:Y:549:ASN:HB2	1:Y:553:HIS:O	2.18	0.42
1:Z:192:MET:HG3	1:3:326:ARG:NH2	2.32	0.42
1:a:152:LYS:HA	1:a:169:ASN:HA	2.01	0.42
1:a:378:ILE:HG13	1:a:393:GLN:HG2	1.99	0.42
1:b:38:SER:HB2	1:b:148:ASN:HD21	1.85	0.42
1:b:85:ARG:NH2	1:b:96:ASP:OD2	2.52	0.42
1:b:413:HIS:CE1	1:b:428:TRP:HB2	2.54	0.42
1:d:415:ALA:O	1:l:339:TRP:HD1	2.02	0.42
1:d:549:ASN:HB2	1:d:553:HIS:O	2.18	0.42
1:e:85:ARG:NH2	1:e:96:ASP:OD2	2.52	0.42
1:e:152:LYS:HA	1:e:169:ASN:HA	2.02	0.42
1:f:356:PHE:HE1	1:f:358:GLN:NE2	2.16	0.42
1:f:357:SER:HB2	1:f:398:ASN:O	2.19	0.42
1:f:413:HIS:CE1	1:f:428:TRP:HB2	2.54	0.42
1:g:357:SER:HB2	1:g:398:ASN:O	2.19	0.42
1:i:356:PHE:HE1	1:i:358:GLN:NE2	2.16	0.42
1:j:128:GLN:O	1:j:132:THR:HG23	2.20	0.42
1:k:57:ILE:HB	1:k:519:LEU:HB2	2.01	0.42
1:k:313:GLN:CD	1:k:321:MET:HA	2.45	0.42
1:m:82:ARG:NH1	1:m:236:LYS:HD3	2.33	0.42
1:n:38:SER:HB2	1:n:148:ASN:HD21	1.84	0.42
1:p:57:ILE:HB	1:p:519:LEU:HB2	2.01	0.42
1:p:312:TRP:HB3	1:p:327:VAL:CG1	2.50	0.42
1:q:85:ARG:NH2	1:q:96:ASP:OD2	2.52	0.42
1:r:187:TRP:CE2	1:r:189:ALA:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:57:ILE:HB	1:s:519:LEU:HB2	2.01	0.42
1:s:396:GLN:OE1	1:s:448:GLN:NE2	2.52	0.42
1:t:85:ARG:NH2	1:t:96:ASP:OD2	2.52	0.42
1:t:396:GLN:OE1	1:t:448:GLN:NE2	2.52	0.42
1:t:549:ASN:HB3	1:t:553:HIS:H	1.84	0.42
1:u:59:CYS:HB2	1:u:517:LEU:CD1	2.49	0.42
1:u:396:GLN:OE1	1:u:448:GLN:NE2	2.52	0.42
1:v:57:ILE:HB	1:v:519:LEU:HB2	2.01	0.42
1:v:85:ARG:NH2	1:v:96:ASP:OD2	2.52	0.42
1:w:396:GLN:OE1	1:w:448:GLN:NE2	2.52	0.42
1:x:279:TYR:OH	1:y:242:ASP:OD1	2.34	0.42
1:x:415:ALA:O	1:y:339:TRP:HD1	2.02	0.42
1:y:40:GLY:HA3	1:y:147:ASP:OD2	2.19	0.42
1:y:85:ARG:NH2	1:y:96:ASP:OD2	2.52	0.42
1:y:187:TRP:CE2	1:y:189:ALA:HB3	2.54	0.42
1:2:40:GLY:HA3	1:2:147:ASP:OD2	2.19	0.42
1:3:152:LYS:HA	1:3:169:ASN:HA	2.01	0.42
1:4:233:GLN:NE2	1:4:236:LYS:HB3	2.34	0.42
1:5:95:ARG:HG3	1:7:421:VAL:HG11	2.00	0.42
1:7:457:LYS:HD3	1:7:479:PRO:HG3	2.00	0.42
1:8:40:GLY:HA3	1:8:147:ASP:OD2	2.19	0.42
1:A:57:ILE:HB	1:A:519:LEU:HB2	2.01	0.42
1:A:85:ARG:NH2	1:A:96:ASP:OD2	2.52	0.42
1:A:314:TRP:CE2	1:A:327:VAL:HA	2.54	0.42
1:A:549:ASN:HB3	1:A:553:HIS:H	1.84	0.42
1:C:357:SER:HB2	1:C:398:ASN:O	2.19	0.42
1:C:393:GLN:NE2	1:M:318:SER:HB2	2.34	0.42
1:C:413:HIS:CE1	1:C:428:TRP:HB2	2.55	0.42
1:D:152:LYS:HA	1:D:169:ASN:HA	2.01	0.42
1:D:329:ASN:ND2	1:N:456:THR:OG1	2.52	0.42
1:E:59:CYS:HB2	1:E:517:LEU:CD1	2.49	0.42
1:E:152:LYS:HA	1:E:169:ASN:HA	2.02	0.42
1:F:40:GLY:HA3	1:F:147:ASP:OD2	2.19	0.42
1:F:187:TRP:CE2	1:F:189:ALA:HB3	2.54	0.42
1:F:396:GLN:OE1	1:F:448:GLN:NE2	2.52	0.42
1:H:85:ARG:NH2	1:H:96:ASP:OD2	2.52	0.42
1:H:187:TRP:CE2	1:H:189:ALA:HB3	2.55	0.42
1:J:40:GLY:HA3	1:J:147:ASP:OD2	2.19	0.42
1:K:233:GLN:NE2	1:K:236:LYS:HB3	2.33	0.42
1:K:313:GLN:CD	1:K:321:MET:HA	2.45	0.42
1:M:312:TRP:HB3	1:M:327:VAL:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:356:PHE:HE1	1:M:358:GLN:NE2	2.16	0.42
1:N:329:ASN:ND2	1:P:456:THR:OG1	2.52	0.42
1:N:356:PHE:HE1	1:N:358:GLN:NE2	2.16	0.42
1:O:40:GLY:HA3	1:O:147:ASP:OD2	2.19	0.42
1:P:549:ASN:HB3	1:P:553:HIS:H	1.84	0.42
1:Q:38:SER:HB2	1:Q:148:ASN:HD21	1.84	0.42
1:S:187:TRP:CE2	1:S:189:ALA:HB3	2.55	0.42
1:S:313:GLN:CD	1:S:321:MET:HA	2.45	0.42
1:T:357:SER:HB2	1:T:398:ASN:O	2.19	0.42
1:V:95:ARG:HG3	1:X:421:VAL:HG11	2.00	0.42
1:V:152:LYS:HA	1:V:169:ASN:HA	2.01	0.42
1:W:279:TYR:OH	1:Y:242:ASP:OD1	2.35	0.42
1:X:312:TRP:HB3	1:X:327:VAL:CG1	2.50	0.42
1:X:339:TRP:HD1	1:e:415:ALA:O	2.02	0.42
1:Y:187:TRP:CE2	1:Y:189:ALA:HB3	2.54	0.42
1:Y:357:SER:HB2	1:Y:398:ASN:O	2.19	0.42
1:Z:235:LYS:HZ1	1:3:363:THR:H	1.66	0.42
1:c:59:CYS:HB2	1:c:517:LEU:CD1	2.49	0.42
1:c:313:GLN:CD	1:c:321:MET:HA	2.45	0.42
1:d:38:SER:HB2	1:d:148:ASN:HD21	1.85	0.42
1:f:38:SER:HB2	1:f:148:ASN:HD21	1.85	0.42
1:f:456:THR:OG1	1:g:329:ASN:ND2	2.52	0.42
1:h:187:TRP:CE2	1:h:189:ALA:HB3	2.54	0.42
1:h:312:TRP:HB3	1:h:327:VAL:CG1	2.50	0.42
1:i:152:LYS:HA	1:i:169:ASN:HA	2.01	0.42
1:i:329:ASN:ND2	1:j:456:THR:OG1	2.52	0.42
1:i:456:THR:OG1	1:k:329:ASN:ND2	2.52	0.42
1:l:40:GLY:HA3	1:l:147:ASP:OD2	2.19	0.42
1:l:396:GLN:OE1	1:l:448:GLN:NE2	2.52	0.42
1:o:152:LYS:HA	1:o:169:ASN:HA	2.02	0.42
1:o:312:TRP:HB3	1:o:327:VAL:CG1	2.50	0.42
1:p:152:LYS:HA	1:p:169:ASN:HA	2.01	0.42
1:q:40:GLY:HA3	1:q:147:ASP:OD2	2.19	0.42
1:q:128:GLN:O	1:q:132:THR:HG23	2.20	0.42
1:r:85:ARG:NH2	1:r:96:ASP:OD2	2.52	0.42
1:r:233:GLN:NE2	1:r:236:LYS:HB3	2.34	0.42
1:s:59:CYS:HB2	1:s:517:LEU:CD1	2.49	0.42
1:t:40:GLY:HA3	1:t:147:ASP:OD2	2.19	0.42
1:u:85:ARG:NH2	1:u:96:ASP:OD2	2.52	0.42
1:v:38:SER:HB2	1:v:148:ASN:HD21	1.84	0.42
1:v:233:GLN:NE2	1:v:236:LYS:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:413:HIS:CE1	1:v:428:TRP:HB2	2.55	0.42
1:v:549:ASN:HB3	1:v:553:HIS:H	1.84	0.42
1:w:38:SER:HB2	1:w:148:ASN:HD21	1.85	0.42
1:w:59:CYS:HB2	1:w:517:LEU:CD1	2.48	0.42
1:w:393:GLN:NE2	1:y:318:SER:HB2	2.35	0.42
1:w:456:THR:OG1	1:y:329:ASN:ND2	2.52	0.42
1:x:312:TRP:HB3	1:x:327:VAL:CG1	2.49	0.42
1:x:313:GLN:CD	1:x:321:MET:HA	2.44	0.42
1:y:549:ASN:HB3	1:y:553:HIS:H	1.84	0.42
1:1:312:TRP:HB3	1:1:327:VAL:CG1	2.50	0.42
1:2:413:HIS:CE1	1:2:428:TRP:HB2	2.55	0.42
1:4:85:ARG:NH2	1:4:96:ASP:OD2	2.52	0.42
1:4:187:TRP:CE2	1:4:189:ALA:HB3	2.54	0.42
1:5:85:ARG:NH2	1:5:96:ASP:OD2	2.52	0.42
1:5:187:TRP:CE2	1:5:189:ALA:HB3	2.55	0.42
1:5:233:GLN:NE2	1:5:236:LYS:HB3	2.34	0.42
1:5:314:TRP:CE2	1:5:327:VAL:HA	2.54	0.42
1:7:187:TRP:CE2	1:7:189:ALA:HB3	2.54	0.42
1:8:396:GLN:OE1	1:8:448:GLN:NE2	2.52	0.42
1:8:549:ASN:HB3	1:8:553:HIS:H	1.84	0.42
1:A:40:GLY:HA3	1:A:147:ASP:OD2	2.19	0.42
1:A:82:ARG:NH1	1:A:236:LYS:HD3	2.33	0.42
1:A:128:GLN:O	1:A:132:THR:HG23	2.20	0.42
1:A:378:ILE:CD1	1:I:318:SER:HA	2.49	0.42
1:B:279:TYR:OH	1:J:242:ASP:OD1	2.35	0.42
1:C:85:ARG:HG3	1:C:99:ASN:ND2	2.28	0.42
1:D:187:TRP:CE2	1:D:189:ALA:HB3	2.54	0.42
1:E:128:GLN:O	1:E:132:THR:HG23	2.20	0.42
1:E:192:MET:HG3	1:F:326:ARG:NH2	2.32	0.42
1:F:314:TRP:CE2	1:F:327:VAL:HA	2.54	0.42
1:F:468:SER:OG	1:F:471:ALA:O	2.26	0.42
1:G:413:HIS:CE1	1:G:428:TRP:HB2	2.55	0.42
1:H:95:ARG:HG3	1:Y:421:VAL:HG11	2.01	0.42
1:H:313:GLN:CD	1:H:321:MET:HA	2.45	0.42
1:H:396:GLN:OE1	1:H:448:GLN:NE2	2.52	0.42
1:I:85:ARG:NH2	1:I:96:ASP:OD2	2.52	0.42
1:J:283:SER:O	1:J:287:THR:OG1	2.30	0.42
1:K:85:ARG:NH2	1:K:96:ASP:OD2	2.52	0.42
1:K:339:TRP:HD1	1:8:415:ALA:O	2.02	0.42
1:L:128:GLN:O	1:L:132:THR:HG23	2.20	0.42
1:L:549:ASN:HB3	1:L:553:HIS:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:38:SER:HB2	1:M:148:ASN:HD21	1.84	0.42
1:M:187:TRP:CE2	1:M:189:ALA:HB3	2.54	0.42
1:P:128:GLN:O	1:P:132:THR:HG23	2.20	0.42
1:P:396:GLN:OE1	1:P:448:GLN:NE2	2.52	0.42
1:P:501:GLY:C	1:P:503:ASN:N	2.75	0.42
1:Q:312:TRP:HB3	1:Q:327:VAL:CG1	2.50	0.42
1:Q:413:HIS:CE1	1:Q:428:TRP:HB2	2.55	0.42
1:Q:549:ASN:HB2	1:Q:553:HIS:O	2.18	0.42
1:R:40:GLY:HA3	1:R:147:ASP:OD2	2.19	0.42
1:R:57:ILE:HB	1:R:519:LEU:HB2	2.01	0.42
1:R:128:GLN:O	1:R:132:THR:HG23	2.20	0.42
1:S:40:GLY:HA3	1:S:147:ASP:OD2	2.19	0.42
1:S:415:ALA:O	1:U:339:TRP:HD1	2.02	0.42
1:T:40:GLY:HA3	1:T:147:ASP:OD2	2.19	0.42
1:T:501:GLY:C	1:T:503:ASN:N	2.75	0.42
1:U:40:GLY:HA3	1:U:147:ASP:OD2	2.19	0.42
1:U:59:CYS:HB2	1:U:517:LEU:CD1	2.49	0.42
1:U:233:GLN:NE2	1:U:236:LYS:HB3	2.34	0.42
1:X:59:CYS:HB2	1:X:517:LEU:CD1	2.48	0.42
1:X:128:GLN:O	1:X:132:THR:HG23	2.20	0.42
1:Y:128:GLN:O	1:Y:132:THR:HG23	2.20	0.42
1:Z:396:GLN:OE1	1:Z:448:GLN:NE2	2.52	0.42
1:a:85:ARG:NH2	1:a:96:ASP:OD2	2.52	0.42
1:b:549:ASN:HB2	1:b:553:HIS:O	2.18	0.42
1:c:415:ALA:O	1:o:339:TRP:HD1	2.02	0.42
1:d:421:VAL:HG11	1:l:95:ARG:HG3	2.01	0.42
1:e:59:CYS:HB2	1:e:517:LEU:CD1	2.48	0.42
1:e:313:GLN:CD	1:e:321:MET:HA	2.45	0.42
1:f:128:GLN:O	1:f:132:THR:HG23	2.20	0.42
1:f:549:ASN:HB2	1:f:553:HIS:O	2.18	0.42
1:g:192:MET:HG3	1:h:326:ARG:NH2	2.33	0.42
1:g:413:HIS:CE1	1:g:428:TRP:HB2	2.55	0.42
1:h:38:SER:HB2	1:h:148:ASN:HD21	1.85	0.42
1:h:314:TRP:CE2	1:h:327:VAL:HA	2.54	0.42
1:h:356:PHE:HE1	1:h:358:GLN:NE2	2.16	0.42
1:h:549:ASN:HB3	1:h:553:HIS:H	1.84	0.42
1:i:38:SER:HB2	1:i:148:ASN:HD21	1.85	0.42
1:i:283:SER:O	1:i:287:THR:OG1	2.30	0.42
1:j:152:LYS:HA	1:j:169:ASN:HA	2.01	0.42
1:j:396:GLN:OE1	1:j:448:GLN:NE2	2.52	0.42
1:j:501:GLY:C	1:j:503:ASN:N	2.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:152:LYS:HA	1:k:169:ASN:HA	2.01	0.42
1:k:187:TRP:CE2	1:k:189:ALA:HB3	2.55	0.42
1:k:549:ASN:HB3	1:k:553:HIS:H	1.84	0.42
1:l:85:ARG:NH2	1:l:96:ASP:OD2	2.52	0.42
1:l:357:SER:HB2	1:l:398:ASN:O	2.19	0.42
1:m:38:SER:HB2	1:m:148:ASN:HD21	1.85	0.42
1:m:357:SER:HB2	1:m:398:ASN:O	2.19	0.42
1:o:128:GLN:O	1:o:132:THR:HG23	2.20	0.42
1:p:85:ARG:NH2	1:p:96:ASP:OD2	2.52	0.42
1:p:396:GLN:OE1	1:p:448:GLN:NE2	2.52	0.42
1:q:59:CYS:HB2	1:q:517:LEU:CD1	2.48	0.42
1:r:313:GLN:CD	1:r:321:MET:HA	2.45	0.42
1:t:413:HIS:CE1	1:t:428:TRP:HB2	2.55	0.42
1:u:40:GLY:HA3	1:u:147:ASP:OD2	2.19	0.42
1:u:312:TRP:HB3	1:u:327:VAL:CG1	2.50	0.42
1:v:40:GLY:HA3	1:v:147:ASP:OD2	2.19	0.42
1:v:82:ARG:NH1	1:v:236:LYS:HD3	2.33	0.42
1:v:128:GLN:O	1:v:132:THR:HG23	2.20	0.42
1:w:128:GLN:O	1:w:132:THR:HG23	2.20	0.42
1:x:38:SER:HB2	1:x:148:ASN:HD21	1.85	0.42
1:x:152:LYS:HA	1:x:169:ASN:HA	2.02	0.42
1:x:187:TRP:CE2	1:x:189:ALA:HB3	2.54	0.42
1:y:233:GLN:NE2	1:y:236:LYS:HB3	2.34	0.42
1:y:314:TRP:CE2	1:y:327:VAL:HA	2.54	0.42
1:y:396:GLN:OE1	1:y:448:GLN:NE2	2.52	0.42
1:z:339:TRP:HD1	1:2:415:ALA:O	2.02	0.42
1:z:549:ASN:HB3	1:z:553:HIS:H	1.84	0.42
1:1:279:TYR:OH	1:2:242:ASP:OD1	2.35	0.42
1:1:363:THR:H	1:2:235:LYS:HZ1	1.67	0.42
1:3:378:ILE:HG13	1:3:393:GLN:HG2	1.99	0.42
1:4:313:GLN:CD	1:4:321:MET:HA	2.45	0.42
1:5:396:GLN:OE1	1:5:448:GLN:NE2	2.52	0.42
1:6:128:GLN:O	1:6:132:THR:HG23	2.20	0.42
1:7:549:ASN:HB2	1:7:553:HIS:O	2.18	0.42
1:A:38:SER:HB2	1:A:148:ASN:HD21	1.85	0.42
1:A:456:THR:OG1	1:I:329:ASN:ND2	2.50	0.42
1:B:363:THR:H	1:J:235:LYS:HZ1	1.68	0.42
1:D:549:ASN:HB3	1:D:553:HIS:H	1.84	0.42
1:E:357:SER:HB2	1:E:398:ASN:O	2.19	0.42
1:E:456:THR:OG1	1:F:329:ASN:ND2	2.52	0.42
1:F:233:GLN:NE2	1:F:236:LYS:HB3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:312:TRP:HB3	1:F:327:VAL:CG1	2.50	0.42
1:G:314:TRP:CE2	1:G:327:VAL:HA	2.54	0.42
1:G:415:ALA:O	1:I:339:TRP:HD1	2.02	0.42
1:H:233:GLN:NE2	1:H:236:LYS:HB3	2.34	0.42
1:H:314:TRP:CE2	1:H:327:VAL:HA	2.54	0.42
1:H:413:HIS:CE1	1:H:428:TRP:HB2	2.55	0.42
1:I:40:GLY:HA3	1:I:147:ASP:OD2	2.19	0.42
1:K:187:TRP:CE2	1:K:189:ALA:HB3	2.55	0.42
1:L:312:TRP:HB3	1:L:327:VAL:CG1	2.50	0.42
1:M:339:TRP:HD1	1:b:415:ALA:O	2.02	0.42
1:N:38:SER:HB2	1:N:148:ASN:HD21	1.85	0.42
1:N:152:LYS:HA	1:N:169:ASN:HA	2.01	0.42
1:N:326:ARG:NH2	1:P:192:MET:HG3	2.33	0.42
1:O:57:ILE:HB	1:O:519:LEU:HB2	2.01	0.42
1:O:128:GLN:O	1:O:132:THR:HG23	2.20	0.42
1:O:413:HIS:CE1	1:O:428:TRP:HB2	2.54	0.42
1:P:38:SER:HB2	1:P:148:ASN:HD21	1.84	0.42
1:P:152:LYS:HA	1:P:169:ASN:HA	2.01	0.42
1:Q:187:TRP:CE2	1:Q:189:ALA:HB3	2.55	0.42
1:R:312:TRP:HB3	1:R:327:VAL:CG1	2.49	0.42
1:R:393:GLN:NE2	1:U:318:SER:HB2	2.35	0.42
1:R:396:GLN:OE1	1:R:448:GLN:NE2	2.52	0.42
1:R:457:LYS:HD3	1:R:479:PRO:HG3	2.00	0.42
1:T:421:VAL:HG11	1:d:95:ARG:HG3	2.00	0.42
1:T:549:ASN:HB3	1:T:553:HIS:H	1.84	0.42
1:U:413:HIS:CE1	1:U:428:TRP:HB2	2.54	0.42
1:U:549:ASN:HB3	1:U:553:HIS:H	1.84	0.42
1:V:85:ARG:NH2	1:V:96:ASP:OD2	2.52	0.42
1:V:396:GLN:OE1	1:V:448:GLN:NE2	2.52	0.42
1:W:57:ILE:HB	1:W:519:LEU:HB2	2.01	0.42
1:W:413:HIS:CE1	1:W:428:TRP:HB2	2.55	0.42
1:Y:59:CYS:HB2	1:Y:517:LEU:CD1	2.48	0.42
1:Y:92:LEU:HB3	1:Y:95:ARG:HG2	2.02	0.42
1:Z:313:GLN:CD	1:Z:321:MET:HA	2.45	0.42
1:Z:393:GLN:NE2	1:3:318:SER:HB2	2.35	0.42
1:Z:415:ALA:O	1:4:339:TRP:HD1	2.02	0.42
1:Z:549:ASN:HB3	1:Z:553:HIS:H	1.84	0.42
1:a:413:HIS:CE1	1:a:428:TRP:HB2	2.54	0.42
1:b:128:GLN:O	1:b:132:THR:HG23	2.20	0.42
1:b:396:GLN:OE1	1:b:448:GLN:NE2	2.52	0.42
1:c:73:GLU:OE1	1:c:486:LYS:NZ	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:313:GLN:CD	1:d:321:MET:HA	2.45	0.42
1:d:331:HIS:HE1	1:l:342:HIS:CD2	2.36	0.42
1:d:396:GLN:OE1	1:d:448:GLN:NE2	2.52	0.42
1:f:396:GLN:OE1	1:f:448:GLN:NE2	2.52	0.42
1:g:40:GLY:HA3	1:g:147:ASP:OD2	2.19	0.42
1:g:132:THR:HG21	1:z:534:LEU:HD21	2.01	0.42
1:g:312:TRP:HB3	1:g:327:VAL:CG1	2.50	0.42
1:g:313:GLN:CD	1:g:321:MET:HA	2.45	0.42
1:h:413:HIS:CE1	1:h:428:TRP:HB2	2.55	0.42
1:i:318:SER:HB2	1:j:393:GLN:NE2	2.35	0.42
1:j:357:SER:HB2	1:j:398:ASN:O	2.19	0.42
1:k:92:LEU:HB3	1:k:95:ARG:HG2	2.02	0.42
1:l:57:ILE:HB	1:l:519:LEU:HB2	2.01	0.42
1:m:40:GLY:HA3	1:m:147:ASP:OD2	2.19	0.42
1:o:421:VAL:HG11	1:p:95:ARG:HG3	2.00	0.42
1:p:187:TRP:CE2	1:p:189:ALA:HB3	2.54	0.42
1:p:549:ASN:HB3	1:p:553:HIS:H	1.84	0.42
1:q:57:ILE:HB	1:q:519:LEU:HB2	2.01	0.42
1:q:187:TRP:CE2	1:q:189:ALA:HB3	2.54	0.42
1:q:329:ASN:ND2	1:r:456:THR:OG1	2.52	0.42
1:r:40:GLY:HA3	1:r:147:ASP:OD2	2.19	0.42
1:r:415:ALA:O	1:s:339:TRP:HD1	2.02	0.42
1:s:40:GLY:HA3	1:s:147:ASP:OD2	2.19	0.42
1:s:549:ASN:HB3	1:s:553:HIS:H	1.84	0.42
1:t:314:TRP:CE2	1:t:327:VAL:HA	2.54	0.42
1:t:435:THR:HG21	1:u:340:ARG:HE	1.84	0.42
1:u:125:ALA:HB2	1:1:530:ASN:O	2.19	0.42
1:v:314:TRP:CE2	1:v:327:VAL:HA	2.54	0.42
1:w:192:MET:HG3	1:y:326:ARG:NH2	2.32	0.42
1:x:413:HIS:CE1	1:x:428:TRP:HB2	2.54	0.42
1:x:549:ASN:HB2	1:x:553:HIS:O	2.18	0.42
1:y:312:TRP:HB3	1:y:327:VAL:CG1	2.50	0.42
1:z:128:GLN:O	1:z:132:THR:HG23	2.20	0.42
1:1:59:CYS:HB2	1:1:517:LEU:CD1	2.48	0.42
1:2:357:SER:HB2	1:2:398:ASN:O	2.19	0.42
1:3:85:ARG:NH2	1:3:96:ASP:OD2	2.52	0.42
1:3:312:TRP:HB3	1:3:327:VAL:CG1	2.50	0.42
1:3:413:HIS:CE1	1:3:428:TRP:HB2	2.54	0.42
1:4:128:GLN:O	1:4:132:THR:HG23	2.20	0.42
1:5:313:GLN:CD	1:5:321:MET:HA	2.45	0.42
1:6:57:ILE:HB	1:6:519:LEU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:38:SER:HB2	1:7:148:ASN:HD21	1.85	0.42
1:7:92:LEU:HB3	1:7:95:ARG:HG2	2.02	0.42
1:7:128:GLN:O	1:7:132:THR:HG23	2.20	0.42
1:8:313:GLN:CD	1:8:321:MET:HA	2.45	0.42
1:A:73:GLU:OE1	1:A:486:LYS:NZ	2.41	0.42
1:A:357:SER:HB2	1:A:398:ASN:O	2.19	0.42
1:C:40:GLY:HA3	1:C:147:ASP:OD2	2.19	0.42
1:C:57:ILE:HB	1:C:519:LEU:HB2	2.01	0.42
1:C:312:TRP:HB3	1:C:327:VAL:CG1	2.50	0.42
1:C:313:GLN:CD	1:C:321:MET:HA	2.45	0.42
1:D:38:SER:HB2	1:D:148:ASN:HD21	1.85	0.42
1:D:92:LEU:HB3	1:D:95:ARG:HG2	2.02	0.42
1:E:40:GLY:HA3	1:E:147:ASP:OD2	2.19	0.42
1:F:242:ASP:OD1	1:Q:279:TYR:OH	2.35	0.42
1:F:357:SER:HB2	1:F:398:ASN:O	2.19	0.42
1:G:38:SER:HB2	1:G:148:ASN:HD21	1.84	0.42
1:G:357:SER:HB2	1:G:398:ASN:O	2.19	0.42
1:H:312:TRP:HB3	1:H:327:VAL:CG1	2.50	0.42
1:I:413:HIS:CE1	1:I:428:TRP:HB2	2.55	0.42
1:K:128:GLN:O	1:K:132:THR:HG23	2.20	0.42
1:K:314:TRP:CE2	1:K:327:VAL:HA	2.54	0.42
1:M:233:GLN:NE2	1:M:236:LYS:HB3	2.34	0.42
1:M:314:TRP:CE2	1:M:327:VAL:HA	2.54	0.42
1:M:393:GLN:NE2	1:b:318:SER:HB2	2.34	0.42
1:M:396:GLN:OE1	1:M:448:GLN:NE2	2.52	0.42
1:M:413:HIS:CE1	1:M:428:TRP:HB2	2.55	0.42
1:N:73:GLU:OE1	1:N:486:LYS:NZ	2.41	0.42
1:N:312:TRP:HB3	1:N:327:VAL:CG1	2.50	0.42
1:O:233:GLN:NE2	1:O:236:LYS:HB3	2.34	0.42
1:O:342:HIS:CD2	1:n:331:HIS:HE1	2.36	0.42
1:O:357:SER:HB2	1:O:398:ASN:O	2.19	0.42
1:P:357:SER:HB2	1:P:398:ASN:O	2.19	0.42
1:Q:128:GLN:O	1:Q:132:THR:HG23	2.20	0.42
1:Q:313:GLN:CD	1:Q:321:MET:HA	2.45	0.42
1:R:329:ASN:ND2	1:S:456:THR:OG1	2.52	0.42
1:S:318:SER:HB2	1:U:393:GLN:NE2	2.35	0.42
1:T:152:LYS:HA	1:T:169:ASN:HA	2.01	0.42
1:T:313:GLN:CD	1:T:321:MET:HA	2.45	0.42
1:V:187:TRP:CE2	1:V:189:ALA:HB3	2.54	0.42
1:V:549:ASN:HB3	1:V:553:HIS:H	1.84	0.42
1:W:40:GLY:HA3	1:W:147:ASP:OD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:128:GLN:O	1:W:132:THR:HG23	2.20	0.42
1:X:82:ARG:NH1	1:X:236:LYS:HD3	2.33	0.42
1:X:85:ARG:NH2	1:X:96:ASP:OD2	2.52	0.42
1:Z:85:ARG:NH2	1:Z:96:ASP:OD2	2.52	0.42
1:Z:413:HIS:CE1	1:Z:428:TRP:HB2	2.54	0.42
1:a:59:CYS:HB2	1:a:517:LEU:CD1	2.48	0.42
1:a:312:TRP:HB3	1:a:327:VAL:CG1	2.50	0.42
1:a:318:SER:HB2	1:8:393:GLN:NE2	2.35	0.42
1:e:314:TRP:CE2	1:e:327:VAL:HA	2.54	0.42
1:h:57:ILE:HB	1:h:519:LEU:HB2	2.01	0.42
1:h:233:GLN:NE2	1:h:236:LYS:HB3	2.34	0.42
1:i:312:TRP:HB3	1:i:327:VAL:CG1	2.50	0.42
1:j:413:HIS:CE1	1:j:428:TRP:HB2	2.55	0.42
1:k:38:SER:HB2	1:k:148:ASN:HD21	1.84	0.42
1:l:233:GLN:NE2	1:l:236:LYS:HB3	2.34	0.42
1:m:57:ILE:HB	1:m:519:LEU:HB2	2.01	0.42
1:m:313:GLN:CD	1:m:321:MET:HA	2.45	0.42
1:n:187:TRP:CE2	1:n:189:ALA:HB3	2.54	0.42
1:n:396:GLN:OE1	1:n:448:GLN:NE2	2.52	0.42
1:o:59:CYS:HB2	1:o:517:LEU:CD1	2.49	0.42
1:o:82:ARG:NH1	1:o:236:LYS:HD3	2.33	0.42
1:o:85:ARG:NH2	1:o:96:ASP:OD2	2.52	0.42
1:o:357:SER:HB2	1:o:398:ASN:O	2.19	0.42
1:q:313:GLN:CD	1:q:321:MET:HA	2.45	0.42
1:q:314:TRP:CE2	1:q:327:VAL:HA	2.54	0.42
1:q:396:GLN:OE1	1:q:448:GLN:NE2	2.52	0.42
1:q:457:LYS:HD3	1:q:479:PRO:HG3	2.00	0.42
1:s:85:ARG:NH2	1:s:96:ASP:OD2	2.52	0.42
1:s:233:GLN:NE2	1:s:236:LYS:HB3	2.34	0.42
1:s:413:HIS:CE1	1:s:428:TRP:HB2	2.54	0.42
1:t:38:SER:HB2	1:t:148:ASN:HD21	1.84	0.42
1:t:233:GLN:NE2	1:t:236:LYS:HB3	2.34	0.42
1:t:312:TRP:HB3	1:t:327:VAL:CG1	2.50	0.42
1:t:339:TRP:HD1	1:v:415:ALA:O	2.02	0.42
1:t:357:SER:HB2	1:t:398:ASN:O	2.19	0.42
1:u:85:ARG:HG3	1:u:99:ASN:ND2	2.29	0.42
1:w:95:ARG:HG3	1:y:421:VAL:HG11	2.01	0.42
1:w:357:SER:HB2	1:w:398:ASN:O	2.19	0.42
1:w:421:VAL:HG11	1:x:95:ARG:HG3	2.01	0.42
1:y:357:SER:HB2	1:y:398:ASN:O	2.19	0.42
1:z:95:ARG:HG3	1:2:421:VAL:HG11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:187:TRP:CE2	1:z:189:ALA:HB3	2.54	0.42
1:z:312:TRP:HB3	1:z:327:VAL:CG1	2.50	0.42
1:2:396:GLN:OE1	1:2:448:GLN:NE2	2.52	0.42
1:2:549:ASN:HB3	1:2:553:HIS:H	1.84	0.42
1:4:314:TRP:CE2	1:4:327:VAL:HA	2.54	0.42
1:4:396:GLN:OE1	1:4:448:GLN:NE2	2.52	0.42
1:5:413:HIS:CE1	1:5:428:TRP:HB2	2.55	0.42
1:6:413:HIS:CE1	1:6:428:TRP:HB2	2.55	0.42
1:7:59:CYS:HB2	1:7:517:LEU:CD1	2.49	0.42
1:7:312:TRP:HB3	1:7:327:VAL:CG1	2.49	0.42
1:8:413:HIS:CE1	1:8:428:TRP:HB2	2.55	0.42
1:A:339:TRP:HD1	1:I:415:ALA:O	2.02	0.42
1:B:38:SER:HB2	1:B:148:ASN:HD21	1.84	0.42
1:B:128:GLN:O	1:B:132:THR:HG23	2.20	0.42
1:B:152:LYS:HA	1:B:169:ASN:HA	2.01	0.42
1:B:415:ALA:O	1:J:339:TRP:HD1	2.02	0.42
1:D:312:TRP:HB3	1:D:327:VAL:CG1	2.50	0.42
1:E:413:HIS:CE1	1:E:428:TRP:HB2	2.55	0.42
1:E:501:GLY:C	1:E:503:ASN:N	2.75	0.42
1:G:57:ILE:HB	1:G:519:LEU:HB2	2.01	0.42
1:G:233:GLN:NE2	1:G:236:LYS:HB3	2.34	0.42
1:G:318:SER:HB2	1:I:393:GLN:NE2	2.34	0.42
1:G:549:ASN:HB2	1:G:553:HIS:O	2.18	0.42
1:H:457:LYS:HD3	1:H:479:PRO:HG3	2.00	0.42
1:I:85:ARG:HG3	1:I:99:ASN:ND2	2.29	0.42
1:I:313:GLN:CD	1:I:321:MET:HA	2.45	0.42
1:I:457:LYS:HD3	1:I:479:PRO:HG3	2.00	0.42
1:J:128:GLN:O	1:J:132:THR:HG23	2.20	0.42
1:J:357:SER:HB2	1:J:398:ASN:O	2.19	0.42
1:J:549:ASN:HB3	1:J:553:HIS:H	1.84	0.42
1:K:396:GLN:OE1	1:K:448:GLN:NE2	2.52	0.42
1:L:187:TRP:CE2	1:L:189:ALA:HB3	2.54	0.42
1:M:59:CYS:HB2	1:M:517:LEU:CD1	2.49	0.42
1:M:495:LEU:HD12	1:M:503:ASN:CG	2.45	0.42
1:N:318:SER:HB2	1:P:393:GLN:NE2	2.35	0.42
1:P:413:HIS:CE1	1:P:428:TRP:HB2	2.55	0.42
1:Q:530:ASN:O	1:R:125:ALA:HB2	2.20	0.42
1:R:59:CYS:HB2	1:R:517:LEU:CD1	2.49	0.42
1:R:187:TRP:CE2	1:R:189:ALA:HB3	2.54	0.42
1:R:313:GLN:CD	1:R:321:MET:HA	2.45	0.42
1:R:314:TRP:CE2	1:R:327:VAL:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:456:THR:OG1	1:U:329:ASN:ND2	2.52	0.42
1:S:128:GLN:O	1:S:132:THR:HG23	2.20	0.42
1:T:57:ILE:HB	1:T:519:LEU:HB2	2.01	0.42
1:U:85:ARG:NH2	1:U:96:ASP:OD2	2.52	0.42
1:U:534:LEU:HD21	1:V:132:THR:HG21	2.02	0.42
1:V:82:ARG:NH1	1:V:236:LYS:HD3	2.33	0.42
1:X:357:SER:HB2	1:X:398:ASN:O	2.19	0.42
1:Y:38:SER:HB2	1:Y:148:ASN:HD21	1.85	0.42
1:Y:40:GLY:HA3	1:Y:147:ASP:OD2	2.19	0.42
1:Z:187:TRP:CE2	1:Z:189:ALA:HB3	2.54	0.42
1:Z:312:TRP:HB3	1:Z:327:VAL:CG1	2.50	0.42
1:Z:456:THR:OG1	1:3:329:ASN:ND2	2.52	0.42
1:a:57:ILE:HB	1:a:519:LEU:HB2	2.01	0.42
1:a:187:TRP:CE2	1:a:189:ALA:HB3	2.54	0.42
1:c:38:SER:HB2	1:c:148:ASN:HD21	1.85	0.42
1:c:40:GLY:HA3	1:c:147:ASP:OD2	2.19	0.42
1:c:314:TRP:CE2	1:c:327:VAL:HA	2.54	0.42
1:d:187:TRP:CE2	1:d:189:ALA:HB3	2.54	0.42
1:g:57:ILE:HB	1:g:519:LEU:HB2	2.01	0.42
1:h:59:CYS:HB2	1:h:517:LEU:CD1	2.49	0.42
1:h:495:LEU:HD12	1:h:503:ASN:CG	2.45	0.42
1:i:57:ILE:HB	1:i:519:LEU:HB2	2.01	0.42
1:i:82:ARG:NH1	1:i:236:LYS:HD3	2.33	0.42
1:i:326:ARG:NH2	1:j:192:MET:HG3	2.33	0.42
1:j:38:SER:HB2	1:j:148:ASN:HD21	1.84	0.42
1:k:312:TRP:HB3	1:k:327:VAL:CG1	2.50	0.42
1:l:413:HIS:CE1	1:l:428:TRP:HB2	2.55	0.42
1:m:421:VAL:HG11	1:n:95:ARG:HG3	2.00	0.42
1:m:549:ASN:HB3	1:m:553:HIS:H	1.84	0.42
1:n:313:GLN:CD	1:n:321:MET:HA	2.45	0.42
1:o:313:GLN:CD	1:o:321:MET:HA	2.45	0.42
1:q:125:ALA:HB2	1:x:530:ASN:O	2.20	0.42
1:q:312:TRP:HB3	1:q:327:VAL:CG1	2.50	0.42
1:q:393:GLN:NE2	1:s:318:SER:HB2	2.35	0.42
1:t:549:ASN:HB2	1:t:553:HIS:O	2.18	0.42
1:u:38:SER:HB2	1:u:148:ASN:HD21	1.84	0.42
1:u:313:GLN:CD	1:u:321:MET:HA	2.45	0.42
1:u:413:HIS:CE1	1:u:428:TRP:HB2	2.54	0.42
1:u:415:ALA:O	1:v:339:TRP:HD1	2.02	0.42
1:v:73:GLU:OE1	1:v:486:LYS:NZ	2.41	0.42
1:v:357:SER:HB2	1:v:398:ASN:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:413:HIS:CE1	1:w:428:TRP:HB2	2.55	0.42
1:w:495:LEU:HD12	1:w:503:ASN:CG	2.45	0.42
1:w:501:GLY:C	1:w:503:ASN:N	2.75	0.42
1:x:128:GLN:O	1:x:132:THR:HG23	2.20	0.42
1:z:38:SER:HB2	1:z:148:ASN:HD21	1.84	0.42
1:z:501:GLY:C	1:z:503:ASN:N	2.75	0.42
1:1:38:SER:HB2	1:1:148:ASN:HD21	1.84	0.42
1:1:128:GLN:O	1:1:132:THR:HG23	2.20	0.42
1:1:152:LYS:HA	1:1:169:ASN:HA	2.01	0.42
1:1:357:SER:HB2	1:1:398:ASN:O	2.19	0.42
1:2:128:GLN:O	1:2:132:THR:HG23	2.20	0.42
1:3:57:ILE:HB	1:3:519:LEU:HB2	2.01	0.42
1:3:59:CYS:HB2	1:3:517:LEU:CD1	2.48	0.42
1:3:187:TRP:CE2	1:3:189:ALA:HB3	2.55	0.42
1:5:40:GLY:HA3	1:5:147:ASP:OD2	2.19	0.42
1:5:312:TRP:HB3	1:5:327:VAL:CG1	2.50	0.42
1:5:339:TRP:HD1	1:7:415:ALA:O	2.02	0.42
1:5:457:LYS:HD3	1:5:479:PRO:HG3	2.00	0.42
1:6:40:GLY:HA3	1:6:147:ASP:OD2	2.19	0.42
1:6:82:ARG:NH1	1:6:236:LYS:HD3	2.33	0.42
1:6:312:TRP:HB3	1:6:327:VAL:CG1	2.49	0.42
1:7:40:GLY:HA3	1:7:147:ASP:OD2	2.19	0.42
1:8:85:ARG:NH2	1:8:96:ASP:OD2	2.52	0.42
1:B:59:CYS:HB2	1:B:517:LEU:CD1	2.49	0.42
1:B:85:ARG:NH2	1:B:96:ASP:OD2	2.52	0.42
1:B:192:MET:HG3	1:L:326:ARG:NH2	2.33	0.42
1:B:357:SER:HB2	1:B:398:ASN:O	2.19	0.42
1:C:125:ALA:HB2	1:L:530:ASN:O	2.19	0.42
1:C:223:ILE:HD13	1:M:430:GLN:HE21	1.84	0.42
1:C:326:ARG:HD3	1:b:193:TYR:CZ	2.55	0.42
1:E:95:ARG:HG3	1:F:421:VAL:HG11	2.01	0.42
1:E:233:GLN:NE2	1:E:236:LYS:HB3	2.34	0.42
1:E:339:TRP:HD1	1:F:415:ALA:O	2.02	0.42
1:E:549:ASN:HB3	1:E:553:HIS:H	1.84	0.42
1:F:313:GLN:CD	1:F:321:MET:HA	2.44	0.42
1:G:312:TRP:HB3	1:G:327:VAL:CG1	2.50	0.42
1:G:333:GLY:HA2	1:G:442:VAL:HG12	2.02	0.42
1:H:339:TRP:HD1	1:Y:415:ALA:O	2.02	0.42
1:I:549:ASN:HB3	1:I:553:HIS:H	1.84	0.42
1:J:396:GLN:OE1	1:J:448:GLN:NE2	2.52	0.42
1:K:38:SER:HB2	1:K:148:ASN:HD21	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:73:GLU:OE1	1:K:486:LYS:NZ	2.41	0.42
1:M:57:ILE:HB	1:M:519:LEU:HB2	2.01	0.42
1:N:57:ILE:HB	1:N:519:LEU:HB2	2.01	0.42
1:N:82:ARG:NH1	1:N:236:LYS:HD3	2.33	0.42
1:N:187:TRP:CE2	1:N:189:ALA:HB3	2.54	0.42
1:N:283:SER:O	1:N:287:THR:OG1	2.30	0.42
1:O:242:ASP:OD1	1:n:279:TYR:OH	2.34	0.42
1:P:187:TRP:CE2	1:P:189:ALA:HB3	2.54	0.42
1:R:318:SER:HB2	1:S:393:GLN:NE2	2.35	0.42
1:T:92:LEU:HB3	1:T:95:ARG:HG2	2.02	0.42
1:T:318:SER:HB2	1:d:393:GLN:NE2	2.35	0.42
1:T:333:GLY:HA2	1:T:442:VAL:HG12	2.02	0.42
1:V:128:GLN:O	1:V:132:THR:HG23	2.20	0.42
1:W:82:ARG:NH1	1:W:236:LYS:HD3	2.33	0.42
1:W:312:TRP:HB3	1:W:327:VAL:CG1	2.50	0.42
1:W:357:SER:HB2	1:W:398:ASN:O	2.19	0.42
1:Y:312:TRP:HB3	1:Y:327:VAL:CG1	2.50	0.42
1:Y:495:LEU:HD12	1:Y:503:ASN:CG	2.45	0.42
1:a:313:GLN:CD	1:a:321:MET:HA	2.45	0.42
1:a:329:ASN:ND2	1:8:456:THR:OG1	2.52	0.42
1:a:549:ASN:HB3	1:a:553:HIS:H	1.84	0.42
1:b:468:SER:OG	1:b:471:ALA:O	2.26	0.42
1:e:38:SER:HB2	1:e:148:ASN:HD21	1.85	0.42
1:f:415:ALA:O	1:h:339:TRP:HD1	2.02	0.42
1:f:468:SER:OG	1:f:471:ALA:O	2.26	0.42
1:g:339:TRP:HD1	1:h:415:ALA:O	2.02	0.42
1:h:396:GLN:OE1	1:h:448:GLN:NE2	2.52	0.42
1:i:187:TRP:CE2	1:i:189:ALA:HB3	2.54	0.42
1:i:396:GLN:OE1	1:i:448:GLN:NE2	2.52	0.42
1:j:187:TRP:CE2	1:j:189:ALA:HB3	2.54	0.42
1:j:312:TRP:HB3	1:j:327:VAL:CG1	2.50	0.42
1:l:128:GLN:O	1:l:132:THR:HG23	2.20	0.42
1:m:85:ARG:NH2	1:m:96:ASP:OD2	2.52	0.42
1:m:92:LEU:HB3	1:m:95:ARG:HG2	2.02	0.42
1:m:152:LYS:HA	1:m:169:ASN:HA	2.01	0.42
1:m:333:GLY:HA2	1:m:442:VAL:HG12	2.02	0.42
1:m:495:LEU:HD12	1:m:503:ASN:CG	2.45	0.42
1:n:128:GLN:O	1:n:132:THR:HG23	2.20	0.42
1:p:128:GLN:O	1:p:132:THR:HG23	2.20	0.42
1:p:132:THR:HG21	1:s:534:LEU:HD21	2.02	0.42
1:q:95:ARG:HG3	1:s:421:VAL:HG11	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:318:SER:HB2	1:r:393:GLN:NE2	2.35	0.42
1:q:456:THR:OG1	1:s:329:ASN:ND2	2.52	0.42
1:r:128:GLN:O	1:r:132:THR:HG23	2.20	0.42
1:r:318:SER:HB2	1:s:393:GLN:NE2	2.35	0.42
1:s:333:GLY:HA2	1:s:442:VAL:HG12	2.02	0.42
1:t:333:GLY:HA2	1:t:442:VAL:HG12	2.02	0.42
1:u:457:LYS:HD3	1:u:479:PRO:HG3	2.00	0.42
1:w:40:GLY:HA3	1:w:147:ASP:OD2	2.19	0.42
1:w:233:GLN:NE2	1:w:236:LYS:HB3	2.34	0.42
1:w:339:TRP:HD1	1:y:415:ALA:O	2.02	0.42
1:w:549:ASN:HB3	1:w:553:HIS:H	1.84	0.42
1:y:313:GLN:CD	1:y:321:MET:HA	2.45	0.42
1:y:495:LEU:HD12	1:y:503:ASN:CG	2.45	0.42
1:1:187:TRP:CE2	1:1:189:ALA:HB3	2.54	0.42
1:3:549:ASN:HB3	1:3:553:HIS:H	1.84	0.42
1:4:73:GLU:OE1	1:4:486:LYS:NZ	2.41	0.42
1:6:73:GLU:OE1	1:6:486:LYS:NZ	2.41	0.42
1:7:495:LEU:HD12	1:7:503:ASN:CG	2.45	0.42
1:8:82:ARG:HD3	1:8:82:ARG:HA	1.91	0.42
1:8:312:TRP:HB3	1:8:327:VAL:CG1	2.50	0.42
1:A:415:ALA:O	1:G:339:TRP:HD1	2.02	0.42
1:B:187:TRP:CE2	1:B:189:ALA:HB3	2.54	0.42
1:C:132:THR:HG21	1:L:534:LEU:HD21	2.02	0.42
1:C:534:LEU:HD23	1:L:534:LEU:HD23	2.01	0.42
1:D:333:GLY:HA2	1:D:442:VAL:HG12	2.02	0.42
1:D:393:GLN:NE2	1:P:318:SER:HB2	2.35	0.42
1:E:187:TRP:CE2	1:E:189:ALA:HB3	2.54	0.42
1:E:495:LEU:HD12	1:E:503:ASN:CG	2.45	0.42
1:F:152:LYS:HA	1:F:169:ASN:HA	2.01	0.42
1:F:495:LEU:HD12	1:F:503:ASN:CG	2.45	0.42
1:H:40:GLY:HA3	1:H:147:ASP:OD2	2.19	0.42
1:H:333:GLY:HA2	1:H:442:VAL:HG12	2.02	0.42
1:I:38:SER:HB2	1:I:148:ASN:HD21	1.85	0.42
1:I:82:ARG:NH1	1:I:236:LYS:HD3	2.33	0.42
1:K:318:SER:HB2	1:a:393:GLN:NE2	2.35	0.42
1:K:333:GLY:HA2	1:K:442:VAL:HG12	2.02	0.42
1:L:38:SER:HB2	1:L:148:ASN:HD21	1.84	0.42
1:N:396:GLN:OE1	1:N:448:GLN:NE2	2.52	0.42
1:O:187:TRP:CE2	1:O:189:ALA:HB3	2.54	0.42
1:O:312:TRP:HB3	1:O:327:VAL:CG1	2.50	0.42
1:P:312:TRP:HB3	1:P:327:VAL:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:37:HIS:C	1:S:258:ARG:HG3	2.44	0.42
1:S:38:SER:HB2	1:S:148:ASN:HD21	1.84	0.42
1:T:85:ARG:NH2	1:T:96:ASP:OD2	2.52	0.42
1:T:495:LEU:HD12	1:T:503:ASN:CG	2.45	0.42
1:U:38:SER:HB2	1:U:148:ASN:HD21	1.84	0.42
1:U:92:LEU:HB3	1:U:95:ARG:HG2	2.02	0.42
1:U:333:GLY:HA2	1:U:442:VAL:HG12	2.02	0.42
1:U:495:LEU:HD12	1:U:503:ASN:CG	2.45	0.42
1:V:40:GLY:HA3	1:V:147:ASP:OD2	2.19	0.42
1:V:59:CYS:HB2	1:V:517:LEU:CD1	2.49	0.42
1:W:73:GLU:OE1	1:W:486:LYS:NZ	2.41	0.42
1:W:152:LYS:HA	1:W:169:ASN:HA	2.02	0.42
1:X:313:GLN:CD	1:X:321:MET:HA	2.45	0.42
1:a:38:SER:HB2	1:a:148:ASN:HD21	1.85	0.42
1:c:333:GLY:HA2	1:c:442:VAL:HG12	2.02	0.42
1:c:413:HIS:CE1	1:c:428:TRP:HB2	2.54	0.42
1:d:128:GLN:O	1:d:132:THR:HG23	2.20	0.42
1:d:413:HIS:CE1	1:d:428:TRP:HB2	2.55	0.42
1:e:40:GLY:HA3	1:e:147:ASP:OD2	2.19	0.42
1:e:333:GLY:HA2	1:e:442:VAL:HG12	2.02	0.42
1:f:457:LYS:HD3	1:f:479:PRO:HG3	2.00	0.42
1:g:534:LEU:HD21	1:z:132:THR:HG21	2.02	0.42
1:l:187:TRP:CE2	1:l:189:ALA:HB3	2.54	0.42
1:m:318:SER:HB2	1:n:393:GLN:NE2	2.35	0.42
1:n:413:HIS:CE1	1:n:428:TRP:HB2	2.55	0.42
1:p:82:ARG:NH1	1:p:236:LYS:HD3	2.33	0.42
1:r:38:SER:HB2	1:r:148:ASN:HD21	1.84	0.42
1:s:495:LEU:HD12	1:s:503:ASN:CG	2.45	0.42
1:t:57:ILE:HB	1:t:519:LEU:HB2	2.01	0.42
1:t:283:SER:O	1:t:287:THR:OG1	2.30	0.42
1:u:82:ARG:NH1	1:u:236:LYS:HD3	2.33	0.42
1:u:132:THR:HG21	1:1:534:LEU:HD21	2.01	0.42
1:u:534:LEU:HD23	1:1:534:LEU:HD23	2.02	0.42
1:u:549:ASN:HB3	1:u:553:HIS:H	1.84	0.42
1:w:57:ILE:HB	1:w:519:LEU:HB2	2.01	0.42
1:w:187:TRP:CE2	1:w:189:ALA:HB3	2.54	0.42
1:w:333:GLY:HA2	1:w:442:VAL:HG12	2.02	0.42
1:y:38:SER:HB2	1:y:148:ASN:HD21	1.84	0.42
1:z:326:ARG:NH2	1:1:192:MET:HG3	2.33	0.42
1:1:85:ARG:NH2	1:1:96:ASP:OD2	2.52	0.42
1:1:313:GLN:CD	1:1:321:MET:HA	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:318:SER:HB2	1:2:393:GLN:NE2	2.35	0.42
1:1:415:ALA:O	1:2:339:TRP:HD1	2.02	0.42
1:2:82:ARG:NH1	1:2:236:LYS:HD3	2.33	0.42
1:2:313:GLN:CD	1:2:321:MET:HA	2.45	0.42
1:3:38:SER:HB2	1:3:148:ASN:HD21	1.85	0.42
1:3:393:GLN:NE2	1:4:318:SER:HB2	2.35	0.42
1:4:38:SER:HB2	1:4:148:ASN:HD21	1.85	0.42
1:5:128:GLN:O	1:5:132:THR:HG23	2.20	0.42
1:5:283:SER:O	1:5:287:THR:OG1	2.30	0.42
1:5:333:GLY:HA2	1:5:442:VAL:HG12	2.02	0.42
1:6:38:SER:HB2	1:6:148:ASN:HD21	1.84	0.42
1:6:152:LYS:HA	1:6:169:ASN:HA	2.01	0.42
1:6:329:ASN:ND2	1:7:456:THR:OG1	2.52	0.42
1:6:357:SER:HB2	1:6:398:ASN:O	2.19	0.42
1:6:396:GLN:OE1	1:6:448:GLN:NE2	2.52	0.42
1:A:333:GLY:HA2	1:A:442:VAL:HG12	2.02	0.42
1:B:393:GLN:NE2	1:L:318:SER:HB2	2.35	0.42
1:C:342:HIS:CD2	1:M:331:HIS:HE1	2.37	0.42
1:D:82:ARG:HG2	1:D:86:PHE:CD2	2.55	0.42
1:E:57:ILE:HB	1:E:519:LEU:HB2	2.01	0.42
1:E:333:GLY:HA2	1:E:442:VAL:HG12	2.02	0.42
1:H:82:ARG:NH1	1:H:236:LYS:HD3	2.33	0.42
1:H:283:SER:O	1:H:287:THR:OG1	2.30	0.42
1:J:82:ARG:NH1	1:J:236:LYS:HD3	2.33	0.42
1:J:313:GLN:CD	1:J:321:MET:HA	2.45	0.42
1:J:318:SER:HB2	1:L:393:GLN:NE2	2.35	0.42
1:J:421:VAL:HG11	1:L:95:ARG:HG3	2.00	0.42
1:L:396:GLN:OE1	1:L:448:GLN:NE2	2.52	0.42
1:M:501:GLY:C	1:M:503:ASN:N	2.75	0.42
1:N:313:GLN:CD	1:N:321:MET:HA	2.45	0.42
1:N:314:TRP:CE2	1:N:327:VAL:HA	2.54	0.42
1:O:318:SER:HB2	1:m:393:GLN:NE2	2.35	0.42
1:R:82:ARG:HG2	1:R:86:PHE:CD2	2.55	0.42
1:R:95:ARG:HG3	1:U:421:VAL:HG11	2.00	0.42
1:R:152:LYS:HA	1:R:169:ASN:HA	2.01	0.42
1:S:396:GLN:OE1	1:S:448:GLN:NE2	2.52	0.42
1:T:312:TRP:HB3	1:T:327:VAL:CG1	2.50	0.42
1:T:413:HIS:CE1	1:T:428:TRP:HB2	2.55	0.42
1:U:187:TRP:CE2	1:U:189:ALA:HB3	2.54	0.42
1:V:192:MET:HG3	1:X:326:ARG:NH2	2.33	0.42
1:V:393:GLN:NE2	1:X:318:SER:HB2	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:413:HIS:CE1	1:V:428:TRP:HB2	2.55	0.42
1:W:396:GLN:OE1	1:W:448:GLN:NE2	2.52	0.42
1:W:501:GLY:C	1:W:503:ASN:N	2.75	0.42
1:W:549:ASN:HB3	1:W:553:HIS:H	1.84	0.42
1:X:95:ARG:HG3	1:e:421:VAL:HG11	2.00	0.42
1:X:187:TRP:CE2	1:X:189:ALA:HB3	2.54	0.42
1:Z:152:LYS:HA	1:Z:169:ASN:HA	2.01	0.42
1:b:40:GLY:HA3	1:b:147:ASP:OD2	2.19	0.42
1:b:82:ARG:HG2	1:b:86:PHE:CD2	2.55	0.42
1:b:457:LYS:HD3	1:b:479:PRO:HG3	2.00	0.42
1:c:312:TRP:HB3	1:c:327:VAL:CG1	2.50	0.42
1:c:421:VAL:HG11	1:o:95:ARG:HG3	2.01	0.42
1:d:279:TYR:OH	1:l:242:ASP:OD1	2.34	0.42
1:e:187:TRP:CE2	1:e:189:ALA:HB3	2.54	0.42
1:e:233:GLN:NE2	1:e:236:LYS:HB3	2.34	0.42
1:e:312:TRP:HB3	1:e:327:VAL:CG1	2.50	0.42
1:f:40:GLY:HA3	1:f:147:ASP:OD2	2.19	0.42
1:f:82:ARG:HG2	1:f:86:PHE:CD2	2.55	0.42
1:f:421:VAL:HG11	1:h:95:ARG:HG3	2.00	0.42
1:h:357:SER:HB2	1:h:398:ASN:O	2.19	0.42
1:i:313:GLN:CD	1:i:321:MET:HA	2.45	0.42
1:i:415:ALA:O	1:j:339:TRP:HD1	2.02	0.42
1:l:312:TRP:HB3	1:l:327:VAL:CG1	2.50	0.42
1:p:40:GLY:HA3	1:p:147:ASP:OD2	2.19	0.42
1:p:413:HIS:CE1	1:p:428:TRP:HB2	2.54	0.42
1:q:82:ARG:HG2	1:q:86:PHE:CD2	2.55	0.42
1:s:92:LEU:HB3	1:s:95:ARG:HG2	2.02	0.42
1:u:187:TRP:CE2	1:u:189:ALA:HB3	2.54	0.42
1:v:333:GLY:HA2	1:v:442:VAL:HG12	2.02	0.42
1:w:279:TYR:OH	1:x:242:ASP:OD1	2.37	0.42
1:w:289:SER:HA	1:x:188:VAL:HB	2.02	0.42
1:w:457:LYS:HD3	1:w:479:PRO:HG3	2.00	0.42
1:x:40:GLY:HA3	1:x:147:ASP:OD2	2.19	0.42
1:y:152:LYS:HA	1:y:169:ASN:HA	2.01	0.42
1:y:333:GLY:HA2	1:y:442:VAL:HG12	2.02	0.42
1:z:318:SER:HB2	1:1:393:GLN:NE2	2.35	0.42
1:z:396:GLN:OE1	1:z:448:GLN:NE2	2.52	0.42
1:1:549:ASN:HB3	1:1:553:HIS:H	1.84	0.42
1:3:313:GLN:CD	1:3:321:MET:HA	2.45	0.42
1:4:333:GLY:HA2	1:4:442:VAL:HG12	2.02	0.42
1:7:396:GLN:OE1	1:7:448:GLN:NE2	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:73:GLU:OE1	1:8:486:LYS:NZ	2.41	0.42
1:8:187:TRP:CE2	1:8:189:ALA:HB3	2.55	0.42
1:B:313:GLN:CD	1:B:321:MET:HA	2.45	0.41
1:B:318:SER:HB2	1:J:393:GLN:NE2	2.35	0.41
1:D:132:THR:HG21	1:M:534:LEU:HD21	2.02	0.41
1:E:457:LYS:HD3	1:E:479:PRO:HG3	2.00	0.41
1:F:38:SER:HB2	1:F:148:ASN:HD21	1.85	0.41
1:F:333:GLY:HA2	1:F:442:VAL:HG12	2.02	0.41
1:F:378:ILE:CD1	1:Q:318:SER:HA	2.50	0.41
1:I:152:LYS:HA	1:I:169:ASN:HA	2.01	0.41
1:I:357:SER:HB2	1:I:398:ASN:O	2.19	0.41
1:K:82:ARG:HG2	1:K:86:PHE:CD2	2.55	0.41
1:K:413:HIS:CE1	1:K:428:TRP:HB2	2.55	0.41
1:N:82:ARG:HG2	1:N:86:PHE:CD2	2.55	0.41
1:N:186:PRO:O	1:N:210:TYR:OH	2.34	0.41
1:N:415:ALA:O	1:P:339:TRP:HD1	2.02	0.41
1:O:313:GLN:CD	1:O:321:MET:HA	2.45	0.41
1:O:329:ASN:ND2	1:m:456:THR:OG1	2.53	0.41
1:O:333:GLY:HA2	1:O:442:VAL:HG12	2.02	0.41
1:P:333:GLY:HA2	1:P:442:VAL:HG12	2.02	0.41
1:Q:40:GLY:HA3	1:Q:147:ASP:OD2	2.19	0.41
1:Q:396:GLN:OE1	1:Q:448:GLN:NE2	2.52	0.41
1:Q:495:LEU:HD12	1:Q:503:ASN:CG	2.45	0.41
1:T:393:GLN:NE2	1:l:318:SER:HB2	2.35	0.41
1:U:357:SER:HB2	1:U:398:ASN:O	2.19	0.41
1:U:534:LEU:HD23	1:V:534:LEU:HD23	2.02	0.41
1:W:38:SER:HB2	1:W:148:ASN:HD21	1.85	0.41
1:W:329:ASN:ND2	1:Y:456:THR:OG1	2.52	0.41
1:Y:396:GLN:OE1	1:Y:448:GLN:NE2	2.52	0.41
1:b:501:GLY:C	1:b:503:ASN:N	2.75	0.41
1:c:233:GLN:NE2	1:c:236:LYS:HB3	2.34	0.41
1:d:40:GLY:HA3	1:d:147:ASP:OD2	2.19	0.41
1:e:82:ARG:HG2	1:e:86:PHE:CD2	2.55	0.41
1:e:413:HIS:CE1	1:e:428:TRP:HB2	2.54	0.41
1:f:313:GLN:CD	1:f:321:MET:HA	2.45	0.41
1:f:549:ASN:HB3	1:f:553:HIS:H	1.84	0.41
1:g:333:GLY:HA2	1:g:442:VAL:HG12	2.02	0.41
1:h:534:LEU:HD21	1:k:132:THR:HG21	2.02	0.41
1:j:333:GLY:HA2	1:j:442:VAL:HG12	2.02	0.41
1:k:333:GLY:HA2	1:k:442:VAL:HG12	2.02	0.41
1:l:38:SER:HB2	1:l:148:ASN:HD21	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:313:GLN:CD	1:l:321:MET:HA	2.45	0.41
1:m:413:HIS:CE1	1:m:428:TRP:HB2	2.55	0.41
1:n:40:GLY:HA3	1:n:147:ASP:OD2	2.19	0.41
1:o:413:HIS:CE1	1:o:428:TRP:HB2	2.55	0.41
1:p:59:CYS:HB2	1:p:517:LEU:CD1	2.49	0.41
1:p:534:LEU:HD23	1:s:534:LEU:HD23	2.02	0.41
1:q:152:LYS:HA	1:q:169:ASN:HA	2.02	0.41
1:r:396:GLN:OE1	1:r:448:GLN:NE2	2.52	0.41
1:s:38:SER:HB2	1:s:148:ASN:HD21	1.84	0.41
1:s:187:TRP:CE2	1:s:189:ALA:HB3	2.54	0.41
1:s:357:SER:HB2	1:s:398:ASN:O	2.19	0.41
1:u:37:HIS:C	1:2:258:ARG:HG3	2.45	0.41
1:u:357:SER:HB2	1:u:398:ASN:O	2.19	0.41
1:x:331:HIS:HE1	1:y:342:HIS:CD2	2.38	0.41
1:z:393:GLN:NE2	1:2:318:SER:HB2	2.35	0.41
1:1:57:ILE:HB	1:1:519:LEU:HB2	2.01	0.41
1:2:312:TRP:HB3	1:2:327:VAL:CG1	2.50	0.41
1:4:312:TRP:HB3	1:4:327:VAL:CG1	2.50	0.41
1:4:413:HIS:CE1	1:4:428:TRP:HB2	2.55	0.41
1:4:549:ASN:HB3	1:4:553:HIS:H	1.84	0.41
1:5:495:LEU:HD12	1:5:503:ASN:CG	2.45	0.41
1:6:549:ASN:HB3	1:6:553:HIS:H	1.84	0.41
1:7:283:SER:O	1:7:287:THR:OG1	2.30	0.41
1:B:57:ILE:HB	1:B:519:LEU:HB2	2.01	0.41
1:C:187:TRP:CE2	1:C:189:ALA:HB3	2.55	0.41
1:D:40:GLY:HA3	1:D:147:ASP:OD2	2.19	0.41
1:D:85:ARG:NH2	1:D:96:ASP:OD2	2.52	0.41
1:E:318:SER:HB2	1:Q:393:GLN:NE2	2.34	0.41
1:F:82:ARG:HG2	1:F:86:PHE:CD2	2.55	0.41
1:G:313:GLN:CD	1:G:321:MET:HA	2.45	0.41
1:G:435:THR:HG21	1:I:340:ARG:HE	1.85	0.41
1:H:128:GLN:O	1:H:132:THR:HG23	2.20	0.41
1:H:318:SER:HB2	1:W:393:GLN:NE2	2.35	0.41
1:I:187:TRP:CE2	1:I:189:ALA:HB3	2.54	0.41
1:K:312:TRP:HB3	1:K:327:VAL:CG1	2.50	0.41
1:M:82:ARG:HG2	1:M:86:PHE:CD2	2.55	0.41
1:M:313:GLN:CD	1:M:321:MET:HA	2.45	0.41
1:M:357:SER:HB2	1:M:398:ASN:O	2.19	0.41
1:O:393:GLN:NE2	1:n:318:SER:HB2	2.35	0.41
1:S:413:HIS:CE1	1:S:428:TRP:HB2	2.54	0.41
1:S:501:GLY:C	1:S:503:ASN:N	2.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:187:TRP:CE2	1:T:189:ALA:HB3	2.54	0.41
1:V:339:TRP:HD1	1:X:415:ALA:O	2.02	0.41
1:W:415:ALA:O	1:Y:339:TRP:HD1	2.02	0.41
1:X:38:SER:HB2	1:X:148:ASN:HD21	1.84	0.41
1:X:57:ILE:HB	1:X:519:LEU:HB2	2.01	0.41
1:X:413:HIS:CE1	1:X:428:TRP:HB2	2.55	0.41
1:X:495:LEU:HD12	1:X:503:ASN:CG	2.45	0.41
1:Z:38:SER:HB2	1:Z:148:ASN:HD21	1.84	0.41
1:b:57:ILE:HB	1:b:519:LEU:HB2	2.01	0.41
1:b:313:GLN:CD	1:b:321:MET:HA	2.45	0.41
1:c:82:ARG:HG2	1:c:86:PHE:CD2	2.55	0.41
1:c:187:TRP:CE2	1:c:189:ALA:HB3	2.54	0.41
1:d:318:SER:HB2	1:l:393:GLN:NE2	2.35	0.41
1:e:128:GLN:O	1:e:132:THR:HG23	2.20	0.41
1:f:57:ILE:HB	1:f:519:LEU:HB2	2.01	0.41
1:g:187:TRP:CE2	1:g:189:ALA:HB3	2.55	0.41
1:i:82:ARG:HG2	1:i:86:PHE:CD2	2.55	0.41
1:i:314:TRP:CE2	1:i:327:VAL:HA	2.54	0.41
1:i:393:GLN:NE2	1:k:318:SER:HB2	2.35	0.41
1:j:318:SER:HB2	1:k:393:GLN:NE2	2.35	0.41
1:k:40:GLY:HA3	1:k:147:ASP:OD2	2.19	0.41
1:k:82:ARG:HG2	1:k:86:PHE:CD2	2.55	0.41
1:l:333:GLY:HA2	1:l:442:VAL:HG12	2.02	0.41
1:l:495:LEU:HD12	1:l:503:ASN:CG	2.45	0.41
1:m:132:THR:HG21	1:r:534:LEU:HD21	2.02	0.41
1:n:314:TRP:CE2	1:n:327:VAL:HA	2.54	0.41
1:o:38:SER:HB2	1:o:148:ASN:HD21	1.84	0.41
1:o:57:ILE:HB	1:o:519:LEU:HB2	2.01	0.41
1:o:187:TRP:CE2	1:o:189:ALA:HB3	2.54	0.41
1:o:318:SER:HB2	1:p:393:GLN:NE2	2.35	0.41
1:o:326:ARG:NH2	1:p:192:MET:HG3	2.33	0.41
1:o:415:ALA:O	1:p:339:TRP:HD1	2.02	0.41
1:q:38:SER:HB2	1:q:148:ASN:HD21	1.85	0.41
1:u:152:LYS:HA	1:u:169:ASN:HA	2.01	0.41
1:u:283:SER:O	1:u:287:THR:OG1	2.30	0.41
1:u:406:ASN:HA	1:v:342:HIS:HE1	1.86	0.41
1:v:312:TRP:HB3	1:v:327:VAL:CG1	2.50	0.41
1:v:396:GLN:OE1	1:v:448:GLN:NE2	2.52	0.41
1:y:82:ARG:HG2	1:y:86:PHE:CD2	2.55	0.41
1:4:82:ARG:HG2	1:4:86:PHE:CD2	2.55	0.41
1:5:82:ARG:NH1	1:5:236:LYS:HD3	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:415:ALA:O	1:7:339:TRP:HD1	2.02	0.41
1:8:128:GLN:O	1:8:132:THR:HG23	2.20	0.41
1:8:152:LYS:HA	1:8:169:ASN:HA	2.01	0.41
1:A:396:GLN:OE1	1:A:448:GLN:NE2	2.52	0.41
1:B:82:ARG:HG2	1:B:86:PHE:CD2	2.55	0.41
1:B:396:GLN:OE1	1:B:448:GLN:NE2	2.52	0.41
1:B:549:ASN:HB3	1:B:553:HIS:H	1.84	0.41
1:C:333:GLY:HA2	1:C:442:VAL:HG12	2.02	0.41
1:E:313:GLN:CD	1:E:321:MET:HA	2.45	0.41
1:E:421:VAL:HG11	1:Q:95:ARG:HG3	2.02	0.41
1:F:128:GLN:O	1:F:132:THR:HG23	2.20	0.41
1:F:342:HIS:CD2	1:Q:331:HIS:HE1	2.38	0.41
1:G:128:GLN:O	1:G:132:THR:HG23	2.20	0.41
1:G:187:TRP:CE2	1:G:189:ALA:HB3	2.54	0.41
1:G:283:SER:O	1:G:287:THR:OG1	2.30	0.41
1:G:501:GLY:C	1:G:503:ASN:N	2.75	0.41
1:H:495:LEU:HD12	1:H:503:ASN:CG	2.45	0.41
1:J:312:TRP:HB3	1:J:327:VAL:CG1	2.50	0.41
1:J:495:LEU:HD12	1:J:503:ASN:CG	2.45	0.41
1:K:549:ASN:HB3	1:K:553:HIS:H	1.84	0.41
1:L:57:ILE:HB	1:L:519:LEU:HB2	2.01	0.41
1:L:92:LEU:HB3	1:L:95:ARG:HG2	2.02	0.41
1:L:413:HIS:CE1	1:L:428:TRP:HB2	2.54	0.41
1:O:495:LEU:HD12	1:O:503:ASN:CG	2.45	0.41
1:R:38:SER:HB2	1:R:148:ASN:HD21	1.84	0.41
1:S:534:LEU:HD21	1:T:132:THR:HG21	2.02	0.41
1:U:313:GLN:CD	1:U:321:MET:HA	2.45	0.41
1:V:333:GLY:HA2	1:V:442:VAL:HG12	2.02	0.41
1:X:82:ARG:HG2	1:X:86:PHE:CD2	2.55	0.41
1:Z:128:GLN:O	1:Z:132:THR:HG23	2.20	0.41
1:a:82:ARG:HG2	1:a:86:PHE:CD2	2.55	0.41
1:b:92:LEU:HB3	1:b:95:ARG:HG2	2.02	0.41
1:b:549:ASN:HB3	1:b:553:HIS:H	1.84	0.41
1:d:495:LEU:HD12	1:d:503:ASN:CG	2.45	0.41
1:f:92:LEU:HB3	1:f:95:ARG:HG2	2.02	0.41
1:f:318:SER:HB2	1:h:393:GLN:NE2	2.35	0.41
1:g:393:GLN:NE2	1:h:318:SER:HB2	2.35	0.41
1:i:128:GLN:O	1:i:132:THR:HG23	2.20	0.41
1:j:313:GLN:CD	1:j:321:MET:HA	2.45	0.41
1:k:396:GLN:OE1	1:k:448:GLN:NE2	2.52	0.41
1:m:312:TRP:HB3	1:m:327:VAL:CG1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:312:TRP:HB3	1:n:327:VAL:CG1	2.50	0.41
1:n:495:LEU:HD12	1:n:503:ASN:CG	2.45	0.41
1:p:333:GLY:HA2	1:p:442:VAL:HG12	2.02	0.41
1:r:413:HIS:CE1	1:r:428:TRP:HB2	2.54	0.41
1:t:313:GLN:CD	1:t:321:MET:HA	2.45	0.41
1:t:501:GLY:C	1:t:503:ASN:N	2.75	0.41
1:w:313:GLN:CD	1:w:321:MET:HA	2.45	0.41
1:x:396:GLN:OE1	1:x:448:GLN:NE2	2.52	0.41
1:x:495:LEU:HD12	1:x:503:ASN:CG	2.45	0.41
1:z:413:HIS:CE1	1:z:428:TRP:HB2	2.55	0.41
1:1:396:GLN:OE1	1:1:448:GLN:NE2	2.52	0.41
1:5:318:SER:HB2	1:6:393:GLN:NE2	2.35	0.41
1:5:393:GLN:NE2	1:7:318:SER:HB2	2.35	0.41
1:5:549:ASN:HB3	1:5:553:HIS:H	1.84	0.41
1:A:312:TRP:HB3	1:A:327:VAL:CG1	2.50	0.41
1:A:406:ASN:HA	1:G:342:HIS:HE1	1.86	0.41
1:D:318:SER:HB2	1:N:393:GLN:NE2	2.35	0.41
1:D:396:GLN:OE1	1:D:448:GLN:NE2	2.52	0.41
1:E:289:SER:HA	1:Q:188:VAL:HB	2.02	0.41
1:H:57:ILE:HB	1:H:519:LEU:HB2	2.01	0.41
1:H:82:ARG:HG2	1:H:86:PHE:CD2	2.55	0.41
1:H:549:ASN:HB3	1:H:553:HIS:H	1.84	0.41
1:J:38:SER:HB2	1:J:148:ASN:HD21	1.84	0.41
1:L:152:LYS:HA	1:L:169:ASN:HA	2.01	0.41
1:L:313:GLN:CD	1:L:321:MET:HA	2.45	0.41
1:M:40:GLY:HA3	1:M:147:ASP:OD2	2.19	0.41
1:M:152:LYS:HA	1:M:169:ASN:HA	2.01	0.41
1:N:128:GLN:O	1:N:132:THR:HG23	2.20	0.41
1:O:38:SER:HB2	1:O:148:ASN:HD21	1.84	0.41
1:O:82:ARG:HG2	1:O:86:PHE:CD2	2.55	0.41
1:P:313:GLN:CD	1:P:321:MET:HA	2.45	0.41
1:S:534:LEU:HD23	1:T:534:LEU:HD23	2.03	0.41
1:U:82:ARG:HG2	1:U:86:PHE:CD2	2.55	0.41
1:V:313:GLN:CD	1:V:321:MET:HA	2.45	0.41
1:W:82:ARG:HG2	1:W:86:PHE:CD2	2.55	0.41
1:X:92:LEU:HB3	1:X:95:ARG:HG2	2.02	0.41
1:Y:82:ARG:HG2	1:Y:86:PHE:CD2	2.55	0.41
1:Y:111:PHE:O	1:Y:484:LEU:HA	2.21	0.41
1:Z:73:GLU:OE1	1:Z:486:LYS:NZ	2.41	0.41
1:Z:333:GLY:HA2	1:Z:442:VAL:HG12	2.02	0.41
1:c:128:GLN:O	1:c:132:THR:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:393:GLN:NE2	1:p:318:SER:HB2	2.35	0.41
1:d:314:TRP:CE2	1:d:327:VAL:HA	2.54	0.41
1:e:534:LEU:HD23	1:f:534:LEU:HD23	2.03	0.41
1:h:82:ARG:HG2	1:h:86:PHE:CD2	2.55	0.41
1:i:186:PRO:O	1:i:210:TYR:OH	2.34	0.41
1:j:92:LEU:HB3	1:j:95:ARG:HG2	2.02	0.41
1:k:85:ARG:NH2	1:k:96:ASP:OD2	2.52	0.41
1:k:413:HIS:CE1	1:k:428:TRP:HB2	2.55	0.41
1:l:82:ARG:HG2	1:l:86:PHE:CD2	2.55	0.41
1:l:108:THR:HB	1:l:210:TYR:O	2.21	0.41
1:m:187:TRP:CE2	1:m:189:ALA:HB3	2.55	0.41
1:o:82:ARG:HG2	1:o:86:PHE:CD2	2.55	0.41
1:o:329:ASN:ND2	1:p:456:THR:OG1	2.53	0.41
1:o:495:LEU:HD12	1:o:503:ASN:CG	2.45	0.41
1:r:495:LEU:HD12	1:r:503:ASN:CG	2.45	0.41
1:s:82:ARG:HG2	1:s:86:PHE:CD2	2.55	0.41
1:s:128:GLN:O	1:s:132:THR:HG23	2.20	0.41
1:s:152:LYS:HA	1:s:169:ASN:HA	2.01	0.41
1:s:313:GLN:CD	1:s:321:MET:HA	2.45	0.41
1:t:92:LEU:HB3	1:t:95:ARG:HG2	2.02	0.41
1:t:534:LEU:HD21	1:5:132:THR:HG21	2.03	0.41
1:w:312:TRP:HB3	1:w:327:VAL:CG1	2.50	0.41
1:x:57:ILE:HB	1:x:519:LEU:HB2	2.01	0.41
1:x:108:THR:HB	1:x:210:TYR:O	2.21	0.41
1:x:356:PHE:HB2	1:x:405:THR:HG22	2.03	0.41
1:x:406:ASN:HA	1:y:342:HIS:HE1	1.85	0.41
1:y:92:LEU:HB3	1:y:95:ARG:HG2	2.02	0.41
1:y:128:GLN:O	1:y:132:THR:HG23	2.20	0.41
1:z:152:LYS:HA	1:z:169:ASN:HA	2.01	0.41
1:3:82:ARG:HG2	1:3:86:PHE:CD2	2.55	0.41
1:5:57:ILE:HB	1:5:519:LEU:HB2	2.01	0.41
1:5:82:ARG:HG2	1:5:86:PHE:CD2	2.55	0.41
1:6:82:ARG:HG2	1:6:86:PHE:CD2	2.55	0.41
1:7:111:PHE:O	1:7:484:LEU:HA	2.21	0.41
1:8:333:GLY:HA2	1:8:442:VAL:HG12	2.02	0.41
1:B:92:LEU:HB3	1:B:95:ARG:HG2	2.02	0.41
1:C:331:HIS:HE1	1:b:342:HIS:CD2	2.39	0.41
1:C:421:VAL:HG11	1:b:95:ARG:HG3	2.01	0.41
1:D:413:HIS:CE1	1:D:428:TRP:HB2	2.55	0.41
1:E:312:TRP:HB3	1:E:327:VAL:CG1	2.50	0.41
1:G:111:PHE:O	1:G:484:LEU:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:534:LEU:HD21	1:H:132:THR:HG21	2.03	0.41
1:H:393:GLN:NE2	1:Y:318:SER:HB2	2.35	0.41
1:I:128:GLN:O	1:I:132:THR:HG23	2.20	0.41
1:I:283:SER:O	1:I:287:THR:OG1	2.30	0.41
1:I:333:GLY:HA2	1:I:442:VAL:HG12	2.02	0.41
1:J:187:TRP:CE2	1:J:189:ALA:HB3	2.54	0.41
1:K:57:ILE:HB	1:K:519:LEU:HB2	2.01	0.41
1:K:82:ARG:HD3	1:K:82:ARG:HA	1.91	0.41
1:K:111:PHE:O	1:K:484:LEU:HA	2.21	0.41
1:K:393:GLN:NE2	1:8:318:SER:HB2	2.35	0.41
1:L:357:SER:HB2	1:L:398:ASN:O	2.19	0.41
1:M:333:GLY:HA2	1:M:442:VAL:HG12	2.02	0.41
1:N:92:LEU:HB3	1:N:95:ARG:HG2	2.02	0.41
1:N:534:LEU:HD23	1:O:534:LEU:HD23	2.03	0.41
1:O:152:LYS:HA	1:O:169:ASN:HA	2.01	0.41
1:O:415:ALA:O	1:m:339:TRP:HD1	2.02	0.41
1:P:92:LEU:HB3	1:P:95:ARG:HG2	2.02	0.41
1:S:82:ARG:HG2	1:S:86:PHE:CD2	2.55	0.41
1:S:329:ASN:ND2	1:U:456:THR:OG1	2.53	0.41
1:S:333:GLY:HA2	1:S:442:VAL:HG12	2.02	0.41
1:S:356:PHE:HB2	1:S:405:THR:HG22	2.03	0.41
1:S:495:LEU:HD12	1:S:503:ASN:CG	2.45	0.41
1:T:59:CYS:HB2	1:T:517:LEU:CD1	2.49	0.41
1:U:152:LYS:HA	1:U:169:ASN:HA	2.01	0.41
1:U:312:TRP:HB3	1:U:327:VAL:CG1	2.50	0.41
1:V:318:SER:HB2	1:e:393:GLN:NE2	2.35	0.41
1:V:329:ASN:ND2	1:e:456:THR:OG1	2.52	0.41
1:Y:152:LYS:HA	1:Y:169:ASN:HA	2.01	0.41
1:Y:283:SER:O	1:Y:287:THR:OG1	2.30	0.41
1:Z:116:ASN:O	1:Z:453:ALA:HA	2.21	0.41
1:Z:318:SER:HB2	1:4:393:GLN:NE2	2.35	0.41
1:b:312:TRP:HB3	1:b:327:VAL:CG1	2.50	0.41
1:c:82:ARG:NH1	1:c:236:LYS:HD3	2.33	0.41
1:c:456:THR:OG1	1:p:329:ASN:ND2	2.52	0.41
1:d:108:THR:HB	1:d:210:TYR:O	2.21	0.41
1:d:152:LYS:HA	1:d:169:ASN:HA	2.01	0.41
1:d:312:TRP:HB3	1:d:327:VAL:CG1	2.50	0.41
1:f:116:ASN:O	1:f:453:ALA:HA	2.21	0.41
1:f:152:LYS:HA	1:f:169:ASN:HA	2.01	0.41
1:g:128:GLN:O	1:g:132:THR:HG23	2.20	0.41
1:h:40:GLY:HA3	1:h:147:ASP:OD2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:152:LYS:HA	1:h:169:ASN:HA	2.01	0.41
1:h:313:GLN:CD	1:h:321:MET:HA	2.45	0.41
1:h:333:GLY:HA2	1:h:442:VAL:HG12	2.02	0.41
1:j:82:ARG:HD3	1:j:82:ARG:HA	1.91	0.41
1:l:152:LYS:HA	1:l:169:ASN:HA	2.01	0.41
1:n:152:LYS:HA	1:n:169:ASN:HA	2.01	0.41
1:p:313:GLN:CD	1:p:321:MET:HA	2.45	0.41
1:q:73:GLU:OE1	1:q:486:LYS:NZ	2.41	0.41
1:r:258:ARG:HG3	1:x:37:HIS:C	2.45	0.41
1:r:329:ASN:ND2	1:s:456:THR:OG1	2.53	0.41
1:s:283:SER:O	1:s:287:THR:OG1	2.30	0.41
1:s:312:TRP:HB3	1:s:327:VAL:CG1	2.50	0.41
1:t:111:PHE:O	1:t:484:LEU:HA	2.21	0.41
1:t:128:GLN:O	1:t:132:THR:HG23	2.20	0.41
1:t:187:TRP:CE2	1:t:189:ALA:HB3	2.55	0.41
1:t:415:ALA:O	1:u:339:TRP:HD1	2.03	0.41
1:v:108:THR:HB	1:v:210:TYR:O	2.21	0.41
1:w:318:SER:HB2	1:x:393:GLN:NE2	2.35	0.41
1:x:318:SER:HA	1:y:378:ILE:CD1	2.50	0.41
1:z:57:ILE:HB	1:z:519:LEU:HB2	2.01	0.41
1:z:92:LEU:HB3	1:z:95:ARG:HG2	2.02	0.41
1:z:357:SER:HB2	1:z:398:ASN:O	2.19	0.41
1:1:82:ARG:HG2	1:1:86:PHE:CD2	2.55	0.41
1:1:92:LEU:HB3	1:1:95:ARG:HG2	2.02	0.41
1:2:283:SER:O	1:2:287:THR:OG1	2.30	0.41
1:2:495:LEU:HD12	1:2:503:ASN:CG	2.45	0.41
1:4:108:THR:HB	1:4:210:TYR:O	2.21	0.41
1:7:152:LYS:HA	1:7:169:ASN:HA	2.02	0.41
1:8:111:PHE:O	1:8:484:LEU:HA	2.21	0.41
1:A:108:THR:HB	1:A:210:TYR:O	2.21	0.41
1:A:342:HIS:CD2	1:I:331:HIS:HE1	2.38	0.41
1:B:333:GLY:HA2	1:B:442:VAL:HG12	2.02	0.41
1:B:356:PHE:HB2	1:B:405:THR:HG22	2.03	0.41
1:C:128:GLN:O	1:C:132:THR:HG23	2.20	0.41
1:D:192:MET:HG3	1:P:326:ARG:NH2	2.33	0.41
1:D:334:TYR:CE2	1:D:354:ALA:HB2	2.56	0.41
1:D:356:PHE:HB2	1:D:405:THR:HG22	2.03	0.41
1:F:92:LEU:HB3	1:F:95:ARG:HG2	2.02	0.41
1:F:356:PHE:HB2	1:F:405:THR:HG22	2.03	0.41
1:F:413:HIS:CE1	1:F:428:TRP:HB2	2.55	0.41
1:G:116:ASN:O	1:G:453:ALA:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:111:PHE:O	1:J:484:LEU:HA	2.21	0.41
1:J:333:GLY:HA2	1:J:442:VAL:HG12	2.02	0.41
1:K:108:THR:HB	1:K:210:TYR:O	2.21	0.41
1:K:289:SER:HA	1:a:188:VAL:HB	2.03	0.41
1:L:82:ARG:HG2	1:L:86:PHE:CD2	2.55	0.41
1:M:128:GLN:O	1:M:132:THR:HG23	2.20	0.41
1:O:108:THR:HB	1:O:210:TYR:O	2.21	0.41
1:P:334:TYR:CE2	1:P:354:ALA:HB2	2.56	0.41
1:Q:57:ILE:HB	1:Q:519:LEU:HB2	2.01	0.41
1:Q:356:PHE:HB2	1:Q:405:THR:HG22	2.03	0.41
1:S:92:LEU:HB3	1:S:95:ARG:HG2	2.02	0.41
1:S:334:TYR:CE2	1:S:354:ALA:HB2	2.56	0.41
1:T:456:THR:OG1	1:l:329:ASN:ND2	2.53	0.41
1:U:111:PHE:O	1:U:484:LEU:HA	2.21	0.41
1:U:128:GLN:O	1:U:132:THR:HG23	2.20	0.41
1:V:92:LEU:HB3	1:V:95:ARG:HG2	2.02	0.41
1:V:456:THR:OG1	1:X:329:ASN:ND2	2.53	0.41
1:X:393:GLN:NE2	1:e:318:SER:HB2	2.35	0.41
1:Y:313:GLN:CD	1:Y:321:MET:HA	2.45	0.41
1:Y:413:HIS:CE1	1:Y:428:TRP:HB2	2.55	0.41
1:Z:111:PHE:O	1:Z:484:LEU:HA	2.21	0.41
1:a:128:GLN:O	1:a:132:THR:HG23	2.20	0.41
1:b:116:ASN:O	1:b:453:ALA:HA	2.21	0.41
1:b:152:LYS:HA	1:b:169:ASN:HA	2.01	0.41
1:b:187:TRP:CE2	1:b:189:ALA:HB3	2.54	0.41
1:d:334:TYR:CE2	1:d:354:ALA:HB2	2.56	0.41
1:f:187:TRP:CE2	1:f:189:ALA:HB3	2.54	0.41
1:f:312:TRP:HB3	1:f:327:VAL:CG1	2.50	0.41
1:i:92:LEU:HB3	1:i:95:ARG:HG2	2.02	0.41
1:i:413:HIS:CE1	1:i:428:TRP:HB2	2.55	0.41
1:j:132:THR:HG21	1:w:534:LEU:HD21	2.02	0.41
1:k:334:TYR:CE2	1:k:354:ALA:HB2	2.56	0.41
1:m:59:CYS:HB2	1:m:517:LEU:CD1	2.49	0.41
1:m:128:GLN:O	1:m:132:THR:HG23	2.20	0.41
1:m:534:LEU:HD23	1:r:534:LEU:HD23	2.03	0.41
1:n:108:THR:HB	1:n:210:TYR:O	2.21	0.41
1:n:334:TYR:CE2	1:n:354:ALA:HB2	2.56	0.41
1:o:92:LEU:HB3	1:o:95:ARG:HG2	2.02	0.41
1:q:333:GLY:HA2	1:q:442:VAL:HG12	2.02	0.41
1:r:356:PHE:HB2	1:r:405:THR:HG22	2.03	0.41
1:s:111:PHE:O	1:s:484:LEU:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:116:ASN:O	1:t:453:ALA:HA	2.21	0.41
1:t:188:VAL:HB	1:v:289:SER:HA	2.02	0.41
1:u:128:GLN:O	1:u:132:THR:HG23	2.20	0.41
1:u:333:GLY:HA2	1:u:442:VAL:HG12	2.02	0.41
1:u:421:VAL:HG11	1:v:95:ARG:HG3	2.02	0.41
1:v:152:LYS:HA	1:v:169:ASN:HA	2.01	0.41
1:x:82:ARG:HG2	1:x:86:PHE:CD2	2.55	0.41
1:y:413:HIS:CE1	1:y:428:TRP:HB2	2.55	0.41
1:z:313:GLN:CD	1:z:321:MET:HA	2.45	0.41
1:z:334:TYR:CE2	1:z:354:ALA:HB2	2.56	0.41
1:1:333:GLY:HA2	1:1:442:VAL:HG12	2.02	0.41
1:1:356:PHE:HB2	1:1:405:THR:HG22	2.03	0.41
1:2:152:LYS:HA	1:2:169:ASN:HA	2.01	0.41
1:2:333:GLY:HA2	1:2:442:VAL:HG12	2.02	0.41
1:4:57:ILE:HB	1:4:519:LEU:HB2	2.01	0.41
1:4:111:PHE:O	1:4:484:LEU:HA	2.21	0.41
1:5:152:LYS:HA	1:5:169:ASN:HA	2.01	0.41
1:6:187:TRP:CE2	1:6:189:ALA:HB3	2.54	0.41
1:6:501:GLY:C	1:6:503:ASN:N	2.75	0.41
1:7:82:ARG:HG2	1:7:86:PHE:CD2	2.55	0.41
1:7:313:GLN:CD	1:7:321:MET:HA	2.45	0.41
1:7:413:HIS:CE1	1:7:428:TRP:HB2	2.54	0.41
1:8:38:SER:HB2	1:8:148:ASN:HD21	1.84	0.41
1:8:116:ASN:O	1:8:453:ALA:HA	2.21	0.41
1:A:152:LYS:HA	1:A:169:ASN:HA	2.01	0.41
1:B:254:ILE:HD12	1:C:42:TYR:CD2	2.55	0.41
1:B:534:LEU:HD23	1:I:534:LEU:HD23	2.03	0.41
1:C:38:SER:HB2	1:C:148:ASN:HD21	1.85	0.41
1:C:92:LEU:HB3	1:C:95:ARG:HG2	2.02	0.41
1:C:111:PHE:O	1:C:484:LEU:HA	2.21	0.41
1:C:116:ASN:O	1:C:453:ALA:HA	2.21	0.41
1:C:340:ARG:HE	1:M:435:THR:HG21	1.86	0.41
1:E:188:VAL:HB	1:F:289:SER:HA	2.03	0.41
1:F:342:HIS:HE1	1:Q:406:ASN:HA	1.85	0.41
1:G:92:LEU:HB3	1:G:95:ARG:HG2	2.02	0.41
1:I:92:LEU:HB3	1:I:95:ARG:HG2	2.02	0.41
1:L:334:TYR:CE2	1:L:354:ALA:HB2	2.56	0.41
1:M:95:ARG:HG3	1:b:421:VAL:HG11	2.01	0.41
1:M:334:TYR:CE2	1:M:354:ALA:HB2	2.56	0.41
1:N:82:ARG:HD3	1:N:82:ARG:HA	1.91	0.41
1:N:111:PHE:O	1:N:484:LEU:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:289:SER:HA	1:P:188:VAL:HB	2.03	0.41
1:N:413:HIS:CE1	1:N:428:TRP:HB2	2.55	0.41
1:Q:82:ARG:HG2	1:Q:86:PHE:CD2	2.55	0.41
1:Q:108:THR:HB	1:Q:210:TYR:O	2.21	0.41
1:R:73:GLU:OE1	1:R:486:LYS:NZ	2.41	0.41
1:R:333:GLY:HA2	1:R:442:VAL:HG12	2.02	0.41
1:S:312:TRP:HB3	1:S:327:VAL:CG1	2.49	0.41
1:T:128:GLN:O	1:T:132:THR:HG23	2.20	0.41
1:T:289:SER:HA	1:d:188:VAL:HB	2.03	0.41
1:U:283:SER:O	1:U:287:THR:OG1	2.30	0.41
1:W:187:TRP:CE2	1:W:189:ALA:HB3	2.54	0.41
1:W:318:SER:HB2	1:Y:393:GLN:NE2	2.35	0.41
1:X:192:MET:HG3	1:e:326:ARG:NH2	2.32	0.41
1:X:356:PHE:HB2	1:X:405:THR:HG22	2.03	0.41
1:Y:73:GLU:OE1	1:Y:486:LYS:NZ	2.41	0.41
1:Y:132:THR:HG21	1:Z:534:LEU:HD21	2.03	0.41
1:a:495:LEU:HD12	1:a:503:ASN:CG	2.45	0.41
1:b:111:PHE:O	1:b:484:LEU:HA	2.21	0.41
1:c:192:MET:HG3	1:p:326:ARG:NH2	2.33	0.41
1:c:318:SER:HB2	1:o:393:GLN:NE2	2.35	0.41
1:d:289:SER:HA	1:l:188:VAL:HB	2.03	0.41
1:d:406:ASN:HA	1:l:342:HIS:HE1	1.86	0.41
1:d:534:LEU:HD21	1:n:132:THR:HG21	2.03	0.41
1:e:82:ARG:NH1	1:e:236:LYS:HD3	2.33	0.41
1:f:111:PHE:O	1:f:484:LEU:HA	2.21	0.41
1:f:501:GLY:C	1:f:503:ASN:N	2.75	0.41
1:g:111:PHE:O	1:g:484:LEU:HA	2.21	0.41
1:h:334:TYR:CE2	1:h:354:ALA:HB2	2.56	0.41
1:i:82:ARG:HD3	1:i:82:ARG:HA	1.92	0.41
1:i:534:LEU:HD23	1:l:534:LEU:HD23	2.03	0.41
1:j:334:TYR:CE2	1:j:354:ALA:HB2	2.56	0.41
1:k:111:PHE:O	1:k:484:LEU:HA	2.21	0.41
1:k:356:PHE:HB2	1:k:405:THR:HG22	2.03	0.41
1:l:111:PHE:O	1:l:484:LEU:HA	2.21	0.41
1:n:92:LEU:HB3	1:n:95:ARG:HG2	2.02	0.41
1:o:82:ARG:HD3	1:o:82:ARG:HA	1.91	0.41
1:o:145:THR:OG1	1:o:514:THR:OG1	2.27	0.41
1:p:92:LEU:HB3	1:p:95:ARG:HG2	2.02	0.41
1:p:111:PHE:O	1:p:484:LEU:HA	2.21	0.41
1:p:334:TYR:CE2	1:p:354:ALA:HB2	2.56	0.41
1:r:82:ARG:HG2	1:r:86:PHE:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:92:LEU:HB3	1:r:95:ARG:HG2	2.02	0.41
1:r:333:GLY:HA2	1:r:442:VAL:HG12	2.02	0.41
1:r:334:TYR:CE2	1:r:354:ALA:HB2	2.56	0.41
1:r:501:GLY:C	1:r:503:ASN:N	2.75	0.41
1:s:108:THR:HB	1:s:210:TYR:O	2.21	0.41
1:t:342:HIS:HE1	1:v:406:ASN:HA	1.86	0.41
1:u:154:VAL:CG2	1:u:167:TYR:HD1	2.27	0.41
1:u:279:TYR:OH	1:v:242:ASP:OD1	2.35	0.41
1:v:313:GLN:CD	1:v:321:MET:HA	2.44	0.41
1:w:188:VAL:HB	1:y:289:SER:HA	2.03	0.41
1:x:92:LEU:HB3	1:x:95:ARG:HG2	2.02	0.41
1:x:549:ASN:HB3	1:x:553:HIS:H	1.84	0.41
1:y:356:PHE:HB2	1:y:405:THR:HG22	2.03	0.41
1:z:82:ARG:HG2	1:z:86:PHE:CD2	2.55	0.41
1:1:495:LEU:HD12	1:1:503:ASN:CG	2.45	0.41
1:2:38:SER:HB2	1:2:148:ASN:HD21	1.85	0.41
1:2:187:TRP:CE2	1:2:189:ALA:HB3	2.54	0.41
1:3:82:ARG:NH1	1:3:236:LYS:HD3	2.33	0.41
1:6:111:PHE:O	1:6:484:LEU:HA	2.21	0.41
1:6:313:GLN:CD	1:6:321:MET:HA	2.45	0.41
1:A:313:GLN:CD	1:A:321:MET:HA	2.45	0.41
1:A:318:SER:HB2	1:G:393:GLN:NE2	2.34	0.41
1:B:334:TYR:CE2	1:B:354:ALA:HB2	2.56	0.41
1:B:495:LEU:HD12	1:B:503:ASN:CG	2.45	0.41
1:D:111:PHE:O	1:D:484:LEU:HA	2.21	0.41
1:D:188:VAL:HB	1:P:289:SER:HA	2.03	0.41
1:F:108:THR:HB	1:F:210:TYR:O	2.21	0.41
1:G:421:VAL:HG11	1:I:95:ARG:HG3	2.02	0.41
1:H:108:THR:HB	1:H:210:TYR:O	2.21	0.41
1:H:152:LYS:HA	1:H:169:ASN:HA	2.01	0.41
1:H:289:SER:HA	1:W:188:VAL:HB	2.03	0.41
1:I:82:ARG:HG2	1:I:86:PHE:CD2	2.55	0.41
1:L:108:THR:HB	1:L:210:TYR:O	2.21	0.41
1:O:111:PHE:O	1:O:484:LEU:HA	2.21	0.41
1:Q:92:LEU:HB3	1:Q:95:ARG:HG2	2.02	0.41
1:R:357:SER:HB2	1:R:398:ASN:O	2.19	0.41
1:S:116:ASN:O	1:S:453:ALA:HA	2.21	0.41
1:T:82:ARG:HG2	1:T:86:PHE:CD2	2.55	0.41
1:T:108:THR:HB	1:T:210:TYR:O	2.21	0.41
1:V:111:PHE:O	1:V:484:LEU:HA	2.21	0.41
1:V:334:TYR:CE2	1:V:354:ALA:HB2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:340:ARG:HE	1:X:435:THR:HG21	1.86	0.41
1:W:111:PHE:O	1:W:484:LEU:HA	2.21	0.41
1:W:313:GLN:CD	1:W:321:MET:HA	2.45	0.41
1:W:534:LEU:HD23	1:X:534:LEU:HD23	2.03	0.41
1:X:116:ASN:O	1:X:453:ALA:HA	2.21	0.41
1:Y:356:PHE:HB2	1:Y:405:THR:HG22	2.03	0.41
1:a:82:ARG:NH1	1:a:236:LYS:HD3	2.33	0.41
1:a:92:LEU:HB3	1:a:95:ARG:HG2	2.02	0.41
1:b:108:THR:HB	1:b:210:TYR:O	2.21	0.41
1:b:132:THR:HG21	1:c:534:LEU:HD21	2.03	0.41
1:d:92:LEU:HB3	1:d:95:ARG:HG2	2.02	0.41
1:f:356:PHE:HB2	1:f:405:THR:HG22	2.03	0.41
1:g:116:ASN:O	1:g:453:ALA:HA	2.21	0.41
1:g:152:LYS:HA	1:g:169:ASN:HA	2.01	0.41
1:h:128:GLN:O	1:h:132:THR:HG23	2.20	0.41
1:i:111:PHE:O	1:i:484:LEU:HA	2.21	0.41
1:i:132:THR:HG21	1:l:534:LEU:HD21	2.02	0.41
1:i:289:SER:HA	1:j:188:VAL:HB	2.03	0.41
1:j:326:ARG:NH2	1:k:192:MET:HG3	2.33	0.41
1:j:534:LEU:HD21	1:w:132:THR:HG21	2.03	0.41
1:l:356:PHE:HB2	1:l:405:THR:HG22	2.03	0.41
1:m:108:THR:HB	1:m:210:TYR:O	2.21	0.41
1:m:125:ALA:HB2	1:r:530:ASN:O	2.21	0.41
1:m:334:TYR:CE2	1:m:354:ALA:HB2	2.56	0.41
1:o:356:PHE:HB2	1:o:405:THR:HG22	2.03	0.41
1:r:116:ASN:O	1:r:453:ALA:HA	2.21	0.41
1:r:152:LYS:HA	1:r:169:ASN:HA	2.01	0.41
1:r:312:TRP:HB3	1:r:327:VAL:CG1	2.50	0.41
1:r:406:ASN:HA	1:s:342:HIS:HE1	1.86	0.41
1:t:152:LYS:HA	1:t:169:ASN:HA	2.01	0.41
1:t:334:TYR:CE2	1:t:354:ALA:HB2	2.56	0.41
1:x:111:PHE:O	1:x:484:LEU:HA	2.21	0.41
1:y:108:THR:HB	1:y:210:TYR:O	2.21	0.41
1:2:111:PHE:O	1:2:484:LEU:HA	2.21	0.41
1:3:92:LEU:HB3	1:3:95:ARG:HG2	2.02	0.41
1:3:128:GLN:O	1:3:132:THR:HG23	2.20	0.41
1:3:188:VAL:HB	1:4:289:SER:HA	2.03	0.41
1:3:495:LEU:HD12	1:3:503:ASN:CG	2.45	0.41
1:4:92:LEU:HB3	1:4:95:ARG:HG2	2.02	0.41
1:6:318:SER:HB2	1:7:393:GLN:NE2	2.35	0.41
1:6:406:ASN:HA	1:7:342:HIS:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:132:THR:HG21	1:8:534:LEU:HD21	2.03	0.41
1:A:111:PHE:O	1:A:484:LEU:HA	2.21	0.41
1:B:125:ALA:HB2	1:I:530:ASN:O	2.20	0.41
1:B:188:VAL:HB	1:L:289:SER:HA	2.03	0.41
1:B:530:ASN:O	1:I:125:ALA:HB2	2.21	0.41
1:C:95:ARG:HG3	1:M:421:VAL:HG11	2.02	0.41
1:C:152:LYS:HA	1:C:169:ASN:HA	2.02	0.41
1:C:334:TYR:CE2	1:C:354:ALA:HB2	2.56	0.41
1:D:128:GLN:O	1:D:132:THR:HG23	2.20	0.41
1:E:242:ASP:OD1	1:F:279:TYR:OH	2.35	0.41
1:E:435:THR:HG21	1:Q:340:ARG:HE	1.85	0.41
1:F:111:PHE:O	1:F:484:LEU:HA	2.21	0.41
1:G:152:LYS:HA	1:G:169:ASN:HA	2.01	0.41
1:G:334:TYR:CE2	1:G:354:ALA:HB2	2.56	0.41
1:G:534:LEU:HD23	1:H:534:LEU:HD23	2.03	0.41
1:I:116:ASN:O	1:I:453:ALA:HA	2.21	0.41
1:I:259:THR:HG21	1:J:172:THR:CG2	2.50	0.41
1:J:152:LYS:HA	1:J:169:ASN:HA	2.02	0.41
1:K:92:LEU:HB3	1:K:95:ARG:HG2	2.02	0.41
1:K:116:ASN:O	1:K:453:ALA:HA	2.21	0.41
1:K:235:LYS:HZ1	1:8:363:THR:H	1.68	0.41
1:L:333:GLY:HA2	1:L:442:VAL:HG12	2.02	0.41
1:M:92:LEU:HB3	1:M:95:ARG:HG2	2.02	0.41
1:M:116:ASN:O	1:M:453:ALA:HA	2.21	0.41
1:N:334:TYR:CE2	1:N:354:ALA:HB2	2.56	0.41
1:O:92:LEU:HB3	1:O:95:ARG:HG2	2.02	0.41
1:O:342:HIS:HE1	1:n:406:ASN:HA	1.86	0.41
1:O:356:PHE:HB2	1:O:405:THR:HG22	2.03	0.41
1:P:82:ARG:HG2	1:P:86:PHE:CD2	2.55	0.41
1:Q:111:PHE:O	1:Q:484:LEU:HA	2.21	0.41
1:Q:125:ALA:HB2	1:R:530:ASN:O	2.21	0.41
1:Q:534:LEU:HD21	1:R:132:THR:HG21	2.02	0.41
1:Q:549:ASN:HB3	1:Q:553:HIS:H	1.84	0.41
1:R:111:PHE:O	1:R:484:LEU:HA	2.21	0.41
1:R:116:ASN:O	1:R:453:ALA:HA	2.21	0.41
1:S:108:THR:HB	1:S:210:TYR:O	2.21	0.41
1:S:111:PHE:O	1:S:484:LEU:HA	2.21	0.41
1:S:152:LYS:HA	1:S:169:ASN:HA	2.01	0.41
1:S:154:VAL:CG2	1:S:167:TYR:HD1	2.27	0.41
1:S:279:TYR:OH	1:U:242:ASP:OD1	2.35	0.41
1:S:406:ASN:HA	1:U:342:HIS:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:334:TYR:CE2	1:T:354:ALA:HB2	2.56	0.41
1:U:108:THR:HB	1:U:210:TYR:O	2.21	0.41
1:V:82:ARG:HG2	1:V:86:PHE:CD2	2.55	0.41
1:V:326:ARG:NH2	1:e:192:MET:HG3	2.33	0.41
1:W:92:LEU:HB3	1:W:95:ARG:HG2	2.02	0.41
1:W:333:GLY:HA2	1:W:442:VAL:HG12	2.02	0.41
1:W:406:ASN:HA	1:Y:342:HIS:HE1	1.86	0.41
1:W:495:LEU:HD12	1:W:503:ASN:CG	2.45	0.41
1:Y:57:ILE:HB	1:Y:519:LEU:HB2	2.01	0.41
1:Z:495:LEU:HD12	1:Z:503:ASN:CG	2.45	0.41
1:a:116:ASN:O	1:a:453:ALA:HA	2.21	0.41
1:a:283:SER:O	1:a:287:THR:OG1	2.30	0.41
1:b:333:GLY:HA2	1:b:442:VAL:HG12	2.02	0.41
1:b:356:PHE:HB2	1:b:405:THR:HG22	2.03	0.41
1:b:534:LEU:HD21	1:c:132:THR:HG21	2.03	0.41
1:b:534:LEU:HD23	1:c:534:LEU:HD23	2.03	0.41
1:c:326:ARG:NH2	1:o:192:MET:HG3	2.32	0.41
1:d:82:ARG:HG2	1:d:86:PHE:CD2	2.55	0.41
1:e:132:THR:HG21	1:f:534:LEU:HD21	2.03	0.41
1:e:534:LEU:HD21	1:f:132:THR:HG21	2.03	0.41
1:f:108:THR:HB	1:f:210:TYR:O	2.21	0.41
1:f:393:GLN:NE2	1:g:318:SER:HB2	2.35	0.41
1:g:38:SER:HB2	1:g:148:ASN:HD21	1.84	0.41
1:g:92:LEU:HB3	1:g:95:ARG:HG2	2.02	0.41
1:g:334:TYR:CE2	1:g:354:ALA:HB2	2.56	0.41
1:h:92:LEU:HB3	1:h:95:ARG:HG2	2.02	0.41
1:h:116:ASN:O	1:h:453:ALA:HA	2.21	0.41
1:h:356:PHE:HB2	1:h:405:THR:HG22	2.03	0.41
1:h:530:ASN:O	1:k:125:ALA:HB2	2.21	0.41
1:i:116:ASN:O	1:i:453:ALA:HA	2.21	0.41
1:i:125:ALA:HB2	1:l:530:ASN:O	2.21	0.41
1:i:279:TYR:OH	1:j:242:ASP:OD1	2.35	0.41
1:i:334:TYR:CE2	1:i:354:ALA:HB2	2.56	0.41
1:j:289:SER:HA	1:k:188:VAL:HB	2.03	0.41
1:k:108:THR:HB	1:k:210:TYR:O	2.21	0.41
1:l:92:LEU:HB3	1:l:95:ARG:HG2	2.02	0.41
1:m:73:GLU:OE1	1:m:486:LYS:NZ	2.41	0.41
1:n:82:ARG:HG2	1:n:86:PHE:CD2	2.55	0.41
1:n:116:ASN:O	1:n:453:ALA:HA	2.21	0.41
1:o:108:THR:HB	1:o:210:TYR:O	2.21	0.41
1:o:111:PHE:O	1:o:484:LEU:HA	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:116:ASN:O	1:o:453:ALA:HA	2.21	0.41
1:o:435:THR:HG21	1:p:340:ARG:HE	1.86	0.41
1:o:534:LEU:HD23	1:6:534:LEU:HD23	2.03	0.41
1:q:111:PHE:O	1:q:484:LEU:HA	2.21	0.41
1:q:116:ASN:O	1:q:453:ALA:HA	2.21	0.41
1:q:132:THR:HG21	1:x:534:LEU:HD21	2.02	0.41
1:q:357:SER:HB2	1:q:398:ASN:O	2.19	0.41
1:q:530:ASN:O	1:x:125:ALA:HB2	2.21	0.41
1:r:108:THR:HB	1:r:210:TYR:O	2.21	0.41
1:r:111:PHE:O	1:r:484:LEU:HA	2.21	0.41
1:t:132:THR:HG21	1:5:534:LEU:HD21	2.03	0.41
1:t:393:GLN:NE2	1:v:318:SER:HB2	2.35	0.41
1:t:456:THR:OG1	1:v:329:ASN:ND2	2.52	0.41
1:t:534:LEU:HD23	1:5:534:LEU:HD23	2.03	0.41
1:u:57:ILE:HB	1:u:519:LEU:HB2	2.01	0.41
1:u:82:ARG:HG2	1:u:86:PHE:CD2	2.55	0.41
1:u:92:LEU:HB3	1:u:95:ARG:HG2	2.02	0.41
1:u:116:ASN:O	1:u:453:ALA:HA	2.21	0.41
1:u:329:ASN:ND2	1:v:456:THR:OG1	2.51	0.41
1:v:111:PHE:O	1:v:484:LEU:HA	2.21	0.41
1:w:242:ASP:OD1	1:y:279:TYR:OH	2.35	0.41
1:y:111:PHE:O	1:y:484:LEU:HA	2.21	0.41
1:z:108:THR:HB	1:z:210:TYR:O	2.21	0.41
1:z:242:ASP:OD1	1:2:279:TYR:OH	2.35	0.41
1:z:289:SER:HA	1:1:188:VAL:HB	2.03	0.41
1:z:333:GLY:HA2	1:z:442:VAL:HG12	2.02	0.41
1:1:334:TYR:CE2	1:1:354:ALA:HB2	2.56	0.41
1:3:116:ASN:O	1:3:453:ALA:HA	2.21	0.41
1:4:116:ASN:O	1:4:453:ALA:HA	2.21	0.41
1:5:108:THR:HB	1:5:210:TYR:O	2.21	0.41
1:6:495:LEU:HD12	1:6:503:ASN:CG	2.45	0.41
1:7:356:PHE:HB2	1:7:405:THR:HG22	2.03	0.41
1:A:289:SER:HA	1:G:188:VAL:HB	2.03	0.41
1:A:329:ASN:ND2	1:G:456:THR:OG1	2.52	0.41
1:B:289:SER:HA	1:J:188:VAL:HB	2.03	0.41
1:C:82:ARG:HG2	1:C:86:PHE:CD2	2.55	0.41
1:C:495:LEU:HD12	1:C:503:ASN:CG	2.45	0.41
1:D:108:THR:HB	1:D:210:TYR:O	2.21	0.41
1:D:534:LEU:HD23	1:M:534:LEU:HD23	2.03	0.41
1:E:116:ASN:O	1:E:453:ALA:HA	2.21	0.41
1:E:132:THR:HG21	1:P:534:LEU:HD21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:534:LEU:HD21	1:P:132:THR:HG21	2.03	0.41
1:H:192:MET:HG3	1:Y:326:ARG:NH2	2.33	0.41
1:H:342:HIS:HE1	1:Y:406:ASN:HA	1.86	0.41
1:I:111:PHE:O	1:I:484:LEU:HA	2.21	0.41
1:L:283:SER:O	1:L:287:THR:OG1	2.30	0.41
1:M:356:PHE:HB2	1:M:405:THR:HG22	2.03	0.41
1:N:116:ASN:O	1:N:453:ALA:HA	2.21	0.41
1:N:132:THR:HG21	1:O:534:LEU:HD21	2.03	0.41
1:N:279:TYR:OH	1:P:242:ASP:OD1	2.35	0.41
1:O:149:ILE:O	1:O:259:THR:HG23	2.21	0.41
1:O:188:VAL:HB	1:n:289:SER:HA	2.03	0.41
1:P:116:ASN:O	1:P:453:ALA:HA	2.21	0.41
1:Q:132:THR:HG21	1:R:534:LEU:HD21	2.03	0.41
1:Q:259:THR:HG21	1:S:172:THR:CG2	2.50	0.41
1:R:435:THR:HG21	1:S:340:ARG:HE	1.86	0.41
1:S:125:ALA:HB2	1:T:530:ASN:O	2.21	0.41
1:S:289:SER:HA	1:U:188:VAL:HB	2.03	0.41
1:S:530:ASN:O	1:T:125:ALA:HB2	2.22	0.41
1:T:149:ILE:O	1:T:259:THR:HG23	2.21	0.41
1:V:116:ASN:O	1:V:453:ALA:HA	2.21	0.41
1:V:356:PHE:HB2	1:V:405:THR:HG22	2.03	0.41
1:W:85:ARG:CG	1:W:99:ASN:HD22	2.32	0.41
1:X:111:PHE:O	1:X:484:LEU:HA	2.21	0.41
1:X:149:ILE:O	1:X:259:THR:HG23	2.21	0.41
1:X:188:VAL:HB	1:e:289:SER:HA	2.03	0.41
1:Z:363:THR:H	1:4:235:LYS:HZ1	1.67	0.41
1:a:149:ILE:O	1:a:259:THR:HG23	2.21	0.41
1:a:435:THR:HG21	1:8:340:ARG:HE	1.86	0.41
1:c:92:LEU:HB3	1:c:95:ARG:HG2	2.02	0.41
1:d:116:ASN:O	1:d:453:ALA:HA	2.21	0.41
1:d:132:THR:HG21	1:n:534:LEU:HD21	2.03	0.41
1:f:435:THR:HG21	1:h:340:ARG:HE	1.86	0.41
1:g:82:ARG:HG2	1:g:86:PHE:CD2	2.55	0.41
1:g:340:ARG:HE	1:h:435:THR:HG21	1.86	0.41
1:g:495:LEU:HD12	1:g:503:ASN:CG	2.45	0.41
1:g:534:LEU:HD23	1:z:534:LEU:HD23	2.02	0.41
1:j:116:ASN:O	1:j:453:ALA:HA	2.21	0.41
1:k:128:GLN:O	1:k:132:THR:HG23	2.20	0.41
1:m:76:LYS:HB2	1:m:107:GLU:HB3	2.03	0.41
1:m:82:ARG:HG2	1:m:86:PHE:CD2	2.55	0.41
1:m:149:ILE:O	1:m:259:THR:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:289:SER:HA	1:n:188:VAL:HB	2.03	0.41
1:o:149:ILE:O	1:o:259:THR:HG23	2.21	0.41
1:p:82:ARG:HG2	1:p:86:PHE:CD2	2.55	0.41
1:r:154:VAL:CG2	1:r:167:TYR:HD1	2.27	0.41
1:r:172:THR:CG2	1:x:259:THR:HG21	2.50	0.41
1:t:406:ASN:HA	1:u:342:HIS:HE1	1.85	0.41
1:v:334:TYR:CE2	1:v:354:ALA:HB2	2.56	0.41
1:w:329:ASN:ND2	1:x:456:THR:OG1	2.52	0.41
1:2:109:PRO:HB2	1:2:486:LYS:HE2	2.03	0.41
1:3:149:ILE:O	1:3:259:THR:HG23	2.21	0.41
1:4:109:PRO:HB2	1:4:486:LYS:HE2	2.03	0.41
1:5:59:CYS:HB2	1:5:517:LEU:CD1	2.48	0.41
1:5:92:LEU:HB3	1:5:95:ARG:HG2	2.02	0.41
1:5:289:SER:HA	1:6:188:VAL:HB	2.03	0.41
1:6:333:GLY:HA2	1:6:442:VAL:HG12	2.02	0.41
1:7:57:ILE:HB	1:7:519:LEU:HB2	2.01	0.41
1:7:73:GLU:OE1	1:7:486:LYS:NZ	2.41	0.41
1:7:530:ASN:O	1:8:125:ALA:HB2	2.21	0.41
1:8:334:TYR:CE2	1:8:354:ALA:HB2	2.56	0.41
1:8:495:LEU:HD12	1:8:503:ASN:CG	2.45	0.41
1:A:100:ASP:OD2	1:A:218:ASN:ND2	2.55	0.40
1:A:149:ILE:O	1:A:259:THR:HG23	2.21	0.40
1:A:334:TYR:CE2	1:A:354:ALA:HB2	2.56	0.40
1:B:132:THR:HG21	1:I:534:LEU:HD21	2.02	0.40
1:C:318:SER:HA	1:b:378:ILE:CD1	2.51	0.40
1:D:85:ARG:HG3	1:D:85:ARG:O	2.22	0.40
1:E:82:ARG:HG2	1:E:86:PHE:CD2	2.55	0.40
1:E:376:LYS:HE3	1:E:393:GLN:HB3	2.04	0.40
1:F:339:TRP:CD1	1:Q:415:ALA:O	2.74	0.40
1:G:132:THR:HG21	1:H:534:LEU:HD21	2.03	0.40
1:I:57:ILE:HB	1:I:519:LEU:HB2	2.01	0.40
1:I:149:ILE:O	1:I:259:THR:HG23	2.22	0.40
1:I:334:TYR:CE2	1:I:354:ALA:HB2	2.56	0.40
1:J:109:PRO:HB2	1:J:486:LYS:HE2	2.03	0.40
1:J:279:TYR:OH	1:L:242:ASP:OD1	2.35	0.40
1:K:334:TYR:CE2	1:K:354:ALA:HB2	2.56	0.40
1:L:85:ARG:HG3	1:L:85:ARG:O	2.22	0.40
1:M:85:ARG:HG3	1:M:85:ARG:O	2.22	0.40
1:N:85:ARG:HG3	1:N:85:ARG:O	2.22	0.40
1:O:116:ASN:O	1:O:453:ALA:HA	2.21	0.40
1:Q:85:ARG:HG3	1:Q:85:ARG:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:76:LYS:HB2	1:T:107:GLU:HB3	2.04	0.40
1:U:334:TYR:CE2	1:U:354:ALA:HB2	2.56	0.40
1:X:108:THR:HB	1:X:210:TYR:O	2.21	0.40
1:X:109:PRO:HB2	1:X:486:LYS:HE2	2.03	0.40
1:Y:85:ARG:HG3	1:Y:85:ARG:O	2.22	0.40
1:Z:82:ARG:HG2	1:Z:86:PHE:CD2	2.55	0.40
1:Z:149:ILE:O	1:Z:259:THR:HG23	2.21	0.40
1:Z:334:TYR:CE2	1:Z:354:ALA:HB2	2.56	0.40
1:Z:340:ARG:HE	1:3:435:THR:HG21	1.87	0.40
1:a:100:ASP:OD2	1:a:218:ASN:ND2	2.55	0.40
1:b:73:GLU:OE1	1:b:486:LYS:NZ	2.41	0.40
1:f:149:ILE:O	1:f:259:THR:HG23	2.21	0.40
1:f:333:GLY:HA2	1:f:442:VAL:HG12	2.02	0.40
1:h:501:GLY:C	1:h:503:ASN:N	2.75	0.40
1:i:376:LYS:HE3	1:i:393:GLN:HB3	2.04	0.40
1:j:82:ARG:HG2	1:j:86:PHE:CD2	2.55	0.40
1:j:100:ASP:OD2	1:j:218:ASN:ND2	2.54	0.40
1:l:149:ILE:O	1:l:259:THR:HG23	2.21	0.40
1:m:111:PHE:O	1:m:484:LEU:HA	2.21	0.40
1:p:116:ASN:O	1:p:453:ALA:HA	2.21	0.40
1:p:356:PHE:HB2	1:p:405:THR:HG22	2.03	0.40
1:q:376:LYS:HE3	1:q:393:GLN:HB3	2.04	0.40
1:q:534:LEU:HD21	1:x:132:THR:HG21	2.03	0.40
1:r:289:SER:HA	1:s:188:VAL:HB	2.03	0.40
1:s:334:TYR:CE2	1:s:354:ALA:HB2	2.56	0.40
1:u:111:PHE:O	1:u:484:LEU:HA	2.21	0.40
1:u:149:ILE:O	1:u:259:THR:HG23	2.22	0.40
1:v:149:ILE:O	1:v:259:THR:HG23	2.22	0.40
1:w:82:ARG:HD3	1:w:82:ARG:HA	1.92	0.40
1:w:82:ARG:HG2	1:w:86:PHE:CD2	2.55	0.40
1:w:116:ASN:O	1:w:453:ALA:HA	2.21	0.40
1:w:376:LYS:HE3	1:w:393:GLN:HB3	2.04	0.40
1:w:435:THR:HG21	1:x:340:ARG:HE	1.85	0.40
1:x:85:ARG:HG3	1:x:85:ARG:O	2.21	0.40
1:y:116:ASN:O	1:y:453:ALA:HA	2.21	0.40
1:z:85:ARG:HG3	1:z:85:ARG:O	2.22	0.40
1:z:116:ASN:O	1:z:453:ALA:HA	2.21	0.40
1:z:376:LYS:HE3	1:z:393:GLN:HB3	2.04	0.40
1:1:85:ARG:HG3	1:1:85:ARG:O	2.22	0.40
1:1:289:SER:HA	1:2:188:VAL:HB	2.03	0.40
1:4:334:TYR:CE2	1:4:354:ALA:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:456:THR:OG1	1:7:329:ASN:ND2	2.52	0.40
1:6:92:LEU:HB3	1:6:95:ARG:HG2	2.02	0.40
1:6:289:SER:HA	1:7:188:VAL:HB	2.03	0.40
1:7:82:ARG:NH1	1:7:236:LYS:HD3	2.33	0.40
1:7:85:ARG:HG3	1:7:85:ARG:O	2.22	0.40
1:8:82:ARG:HG2	1:8:86:PHE:CD2	2.55	0.40
1:8:85:ARG:HG3	1:8:85:ARG:O	2.21	0.40
1:A:534:LEU:HD23	1:F:534:LEU:HD23	2.03	0.40
1:B:85:ARG:HG3	1:B:85:ARG:O	2.22	0.40
1:B:100:ASP:OD2	1:B:218:ASN:ND2	2.55	0.40
1:B:342:HIS:HE1	1:L:406:ASN:HA	1.86	0.40
1:C:318:SER:HB2	1:b:393:GLN:NE2	2.36	0.40
1:D:125:ALA:HB2	1:M:530:ASN:O	2.21	0.40
1:E:406:ASN:HA	1:Q:342:HIS:HE1	1.86	0.40
1:G:289:SER:HA	1:I:188:VAL:HB	2.02	0.40
1:H:59:CYS:HB2	1:H:517:LEU:CD1	2.48	0.40
1:H:92:LEU:HB3	1:H:95:ARG:HG2	2.02	0.40
1:H:111:PHE:O	1:H:484:LEU:HA	2.21	0.40
1:H:334:TYR:CE2	1:H:354:ALA:HB2	2.56	0.40
1:K:109:PRO:HB2	1:K:486:LYS:HE2	2.04	0.40
1:K:340:ARG:HE	1:8:435:THR:HG21	1.86	0.40
1:L:116:ASN:O	1:L:453:ALA:HA	2.21	0.40
1:L:149:ILE:O	1:L:259:THR:HG23	2.21	0.40
1:L:376:LYS:HE3	1:L:393:GLN:HB3	2.04	0.40
1:M:340:ARG:HE	1:b:435:THR:HG21	1.87	0.40
1:N:125:ALA:HB2	1:O:530:ASN:O	2.22	0.40
1:N:333:GLY:HA2	1:N:442:VAL:HG12	2.02	0.40
1:N:376:LYS:HE3	1:N:393:GLN:HB3	2.04	0.40
1:O:406:ASN:HA	1:m:342:HIS:HE1	1.86	0.40
1:P:100:ASP:OD2	1:P:218:ASN:ND2	2.55	0.40
1:P:108:THR:HB	1:P:210:TYR:O	2.21	0.40
1:P:149:ILE:O	1:P:259:THR:HG23	2.21	0.40
1:Q:76:LYS:HB2	1:Q:107:GLU:HB3	2.04	0.40
1:R:76:LYS:HB2	1:R:107:GLU:HB3	2.04	0.40
1:R:188:VAL:HB	1:U:289:SER:HA	2.03	0.40
1:R:376:LYS:HE3	1:R:393:GLN:HB3	2.04	0.40
1:T:100:ASP:OD2	1:T:218:ASN:ND2	2.55	0.40
1:T:109:PRO:HB2	1:T:486:LYS:HE2	2.03	0.40
1:T:339:TRP:HD1	1:l:415:ALA:O	2.03	0.40
1:U:100:ASP:OD2	1:U:218:ASN:ND2	2.54	0.40
1:U:132:THR:HG21	1:V:534:LEU:HD21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:326:ARG:NH2	1:Y:192:MET:HG3	2.33	0.40
1:X:342:HIS:HE1	1:e:406:ASN:HA	1.86	0.40
1:Y:530:ASN:O	1:Z:125:ALA:HB2	2.22	0.40
1:Z:82:ARG:HD3	1:Z:82:ARG:HA	1.91	0.40
1:Z:85:ARG:HG3	1:Z:85:ARG:O	2.22	0.40
1:Z:92:LEU:HB3	1:Z:95:ARG:HG2	2.02	0.40
1:c:100:ASP:OD2	1:c:218:ASN:ND2	2.55	0.40
1:c:108:THR:HB	1:c:210:TYR:O	2.21	0.40
1:c:111:PHE:O	1:c:484:LEU:HA	2.21	0.40
1:c:149:ILE:O	1:c:259:THR:HG23	2.21	0.40
1:e:92:LEU:HB3	1:e:95:ARG:HG2	2.02	0.40
1:e:100:ASP:OD2	1:e:218:ASN:ND2	2.55	0.40
1:e:111:PHE:O	1:e:484:LEU:HA	2.21	0.40
1:f:73:GLU:OE1	1:f:486:LYS:NZ	2.41	0.40
1:g:188:VAL:HB	1:h:289:SER:HA	2.03	0.40
1:h:85:ARG:HG3	1:h:85:ARG:O	2.22	0.40
1:i:85:ARG:HG3	1:i:85:ARG:O	2.22	0.40
1:i:333:GLY:HA2	1:i:442:VAL:HG12	2.02	0.40
1:k:85:ARG:HG3	1:k:85:ARG:O	2.22	0.40
1:l:82:ARG:NH1	1:l:236:LYS:HD3	2.33	0.40
1:l:116:ASN:O	1:l:453:ALA:HA	2.21	0.40
1:m:100:ASP:OD2	1:m:218:ASN:ND2	2.55	0.40
1:m:109:PRO:HB2	1:m:486:LYS:HE2	2.04	0.40
1:o:109:PRO:HB2	1:o:486:LYS:HE2	2.03	0.40
1:o:125:ALA:HB2	1:6:530:ASN:O	2.22	0.40
1:p:85:ARG:HG3	1:p:85:ARG:O	2.21	0.40
1:p:534:LEU:HD21	1:s:132:THR:HG21	2.03	0.40
1:q:76:LYS:HB2	1:q:107:GLU:HB3	2.04	0.40
1:q:108:THR:HB	1:q:210:TYR:O	2.21	0.40
1:q:109:PRO:HB2	1:q:486:LYS:HE2	2.03	0.40
1:q:149:ILE:O	1:q:259:THR:HG23	2.21	0.40
1:q:188:VAL:HB	1:s:289:SER:HA	2.03	0.40
1:q:435:THR:HG21	1:r:340:ARG:HE	1.87	0.40
1:u:334:TYR:CE2	1:u:354:ALA:HB2	2.56	0.40
1:v:100:ASP:OD2	1:v:218:ASN:ND2	2.55	0.40
1:x:76:LYS:HB2	1:x:107:GLU:HB3	2.04	0.40
1:y:149:ILE:O	1:y:259:THR:HG23	2.22	0.40
1:2:82:ARG:HD3	1:2:82:ARG:HA	1.91	0.40
1:3:100:ASP:OD2	1:3:218:ASN:ND2	2.55	0.40
1:3:108:THR:HB	1:3:210:TYR:O	2.21	0.40
1:5:111:PHE:O	1:5:484:LEU:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:192:MET:HG3	1:7:326:ARG:NH2	2.33	0.40
1:5:334:TYR:CE2	1:5:354:ALA:HB2	2.56	0.40
1:5:342:HIS:HE1	1:7:406:ASN:HA	1.86	0.40
1:6:85:ARG:CG	1:6:99:ASN:HD22	2.32	0.40
1:6:100:ASP:OD2	1:6:218:ASN:ND2	2.54	0.40
1:8:149:ILE:O	1:8:259:THR:HG23	2.21	0.40
1:8:186:PRO:O	1:8:210:TYR:OH	2.34	0.40
1:A:109:PRO:HB2	1:A:486:LYS:HE2	2.03	0.40
1:A:116:ASN:O	1:A:453:ALA:HA	2.21	0.40
1:B:108:THR:HB	1:B:210:TYR:O	2.21	0.40
1:C:356:PHE:HB2	1:C:405:THR:HG22	2.03	0.40
1:D:154:VAL:HG22	1:D:167:TYR:CE1	2.48	0.40
1:D:342:HIS:HE1	1:P:406:ASN:HA	1.86	0.40
1:E:82:ARG:HD3	1:E:82:ARG:HA	1.92	0.40
1:E:108:THR:HB	1:E:210:TYR:O	2.21	0.40
1:F:100:ASP:OD2	1:F:218:ASN:ND2	2.55	0.40
1:F:116:ASN:O	1:F:453:ALA:HA	2.21	0.40
1:F:149:ILE:O	1:F:259:THR:HG23	2.22	0.40
1:G:109:PRO:HB2	1:G:486:LYS:HE2	2.03	0.40
1:G:329:ASN:ND2	1:I:456:THR:OG1	2.53	0.40
1:G:530:ASN:O	1:H:125:ALA:HB2	2.22	0.40
1:H:109:PRO:HB2	1:H:486:LYS:HE2	2.03	0.40
1:H:376:LYS:HE3	1:H:393:GLN:HB3	2.04	0.40
1:H:456:THR:OG1	1:Y:329:ASN:ND2	2.52	0.40
1:J:82:ARG:HG2	1:J:86:PHE:CD2	2.55	0.40
1:J:149:ILE:O	1:J:259:THR:HG23	2.21	0.40
1:J:334:TYR:CE2	1:J:354:ALA:HB2	2.56	0.40
1:J:356:PHE:HB2	1:J:405:THR:HG22	2.03	0.40
1:J:530:ASN:O	1:K:125:ALA:HB2	2.21	0.40
1:K:501:GLY:C	1:K:503:ASN:N	2.75	0.40
1:L:111:PHE:O	1:L:484:LEU:HA	2.21	0.40
1:M:100:ASP:OD2	1:M:218:ASN:ND2	2.55	0.40
1:M:149:ILE:O	1:M:259:THR:HG23	2.21	0.40
1:N:435:THR:HG21	1:P:340:ARG:HE	1.86	0.40
1:O:340:ARG:HE	1:n:435:THR:HG21	1.87	0.40
1:Q:333:GLY:HA2	1:Q:442:VAL:HG12	2.02	0.40
1:R:108:THR:HB	1:R:210:TYR:O	2.21	0.40
1:R:109:PRO:HB2	1:R:486:LYS:HE2	2.04	0.40
1:R:149:ILE:O	1:R:259:THR:HG23	2.22	0.40
1:R:342:HIS:HE1	1:U:406:ASN:HA	1.86	0.40
1:U:85:ARG:HG3	1:U:85:ARG:O	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:85:ARG:HG3	1:V:85:ARG:O	2.22	0.40
1:V:289:SER:HA	1:e:188:VAL:HB	2.03	0.40
1:V:322:SER:C	1:V:324:ALA:N	2.80	0.40
1:V:342:HIS:HE1	1:X:406:ASN:HA	1.86	0.40
1:V:501:GLY:C	1:V:503:ASN:N	2.75	0.40
1:W:100:ASP:OD2	1:W:218:ASN:ND2	2.55	0.40
1:X:334:TYR:CE2	1:X:354:ALA:HB2	2.56	0.40
1:Y:82:ARG:NH1	1:Y:236:LYS:HD3	2.33	0.40
1:Y:108:THR:HB	1:Y:210:TYR:O	2.21	0.40
1:Z:186:PRO:O	1:Z:210:TYR:OH	2.34	0.40
1:Z:326:ARG:NH2	1:4:192:MET:HG3	2.33	0.40
1:Z:435:THR:HG21	1:4:340:ARG:HE	1.86	0.40
1:a:333:GLY:HA2	1:a:442:VAL:HG12	2.02	0.40
1:a:415:ALA:O	1:8:339:TRP:HD1	2.02	0.40
1:b:149:ILE:O	1:b:259:THR:HG23	2.22	0.40
1:b:530:ASN:O	1:c:125:ALA:HB2	2.21	0.40
1:c:289:SER:HA	1:o:188:VAL:HB	2.03	0.40
1:c:406:ASN:HA	1:o:342:HIS:HE1	1.86	0.40
1:e:108:THR:HB	1:e:210:TYR:O	2.21	0.40
1:f:283:SER:O	1:f:287:THR:OG1	2.30	0.40
1:g:108:THR:HB	1:g:210:TYR:O	2.21	0.40
1:h:100:ASP:OD2	1:h:218:ASN:ND2	2.55	0.40
1:i:340:ARG:HE	1:k:435:THR:HG21	1.86	0.40
1:i:435:THR:HG21	1:j:340:ARG:HE	1.86	0.40
1:i:530:ASN:O	1:l:125:ALA:HB2	2.22	0.40
1:j:149:ILE:O	1:j:259:THR:HG23	2.22	0.40
1:n:85:ARG:HG3	1:n:85:ARG:O	2.21	0.40
1:o:334:TYR:CE2	1:o:354:ALA:HB2	2.56	0.40
1:q:534:LEU:HD23	1:x:534:LEU:HD23	2.03	0.40
1:r:435:THR:HG21	1:s:340:ARG:HE	1.86	0.40
1:s:73:GLU:OE1	1:s:486:LYS:NZ	2.41	0.40
1:s:100:ASP:OD2	1:s:218:ASN:ND2	2.55	0.40
1:t:530:ASN:O	1:5:125:ALA:HB2	2.22	0.40
1:u:534:LEU:HD21	1:1:132:THR:HG21	2.03	0.40
1:v:109:PRO:HB2	1:v:486:LYS:HE2	2.03	0.40
1:v:116:ASN:O	1:v:453:ALA:HA	2.21	0.40
1:w:92:LEU:HB3	1:w:95:ARG:HG2	2.02	0.40
1:w:334:TYR:CE2	1:w:354:ALA:HB2	2.56	0.40
1:y:100:ASP:OD2	1:y:218:ASN:ND2	2.55	0.40
1:z:149:ILE:O	1:z:259:THR:HG23	2.21	0.40
1:1:100:ASP:OD2	1:1:218:ASN:ND2	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:108:THR:HB	1:1:210:TYR:O	2.21	0.40
1:2:82:ARG:HG2	1:2:86:PHE:CD2	2.55	0.40
1:2:356:PHE:HB2	1:2:405:THR:HG22	2.03	0.40
1:5:85:ARG:HG3	1:5:85:ARG:O	2.22	0.40
1:5:109:PRO:HB2	1:5:486:LYS:HE2	2.03	0.40
1:5:376:LYS:HE3	1:5:393:GLN:HB3	2.04	0.40
1:6:108:THR:HB	1:6:210:TYR:O	2.21	0.40
1:6:326:ARG:NH2	1:7:192:MET:HG3	2.33	0.40
1:7:108:THR:HB	1:7:210:TYR:O	2.21	0.40
1:A:82:ARG:HG2	1:A:86:PHE:CD2	2.55	0.40
1:A:132:THR:HG21	1:F:534:LEU:HD21	2.03	0.40
1:A:339:TRP:CD1	1:I:415:ALA:O	2.74	0.40
1:B:116:ASN:O	1:B:453:ALA:HA	2.21	0.40
1:C:108:THR:HB	1:C:210:TYR:O	2.21	0.40
1:C:279:TYR:OH	1:b:242:ASP:OD1	2.36	0.40
1:D:242:ASP:OD1	1:P:279:TYR:OH	2.35	0.40
1:D:376:LYS:HE3	1:D:393:GLN:HB3	2.04	0.40
1:D:435:THR:HG21	1:N:340:ARG:HE	1.86	0.40
1:E:340:ARG:HE	1:F:435:THR:HG21	1.87	0.40
1:G:82:ARG:HG2	1:G:86:PHE:CD2	2.55	0.40
1:G:406:ASN:HA	1:I:342:HIS:HE1	1.86	0.40
1:H:85:ARG:HG3	1:H:85:ARG:O	2.22	0.40
1:J:85:ARG:CG	1:J:99:ASN:HD22	2.32	0.40
1:J:108:THR:HB	1:J:210:TYR:O	2.21	0.40
1:M:342:HIS:HE1	1:b:406:ASN:HA	1.85	0.40
1:N:109:PRO:HB2	1:N:486:LYS:HE2	2.03	0.40
1:N:356:PHE:HB2	1:N:405:THR:HG22	2.03	0.40
1:N:530:ASN:O	1:O:125:ALA:HB2	2.22	0.40
1:O:279:TYR:OH	1:m:242:ASP:OD1	2.35	0.40
1:O:456:THR:OG1	1:n:329:ASN:ND2	2.52	0.40
1:P:356:PHE:HB2	1:P:405:THR:HG22	2.03	0.40
1:Q:334:TYR:CE2	1:Q:354:ALA:HB2	2.56	0.40
1:R:289:SER:HA	1:S:188:VAL:HB	2.03	0.40
1:T:85:ARG:HG3	1:T:85:ARG:O	2.22	0.40
1:T:111:PHE:O	1:T:484:LEU:HA	2.21	0.40
1:U:376:LYS:HE3	1:U:393:GLN:HB3	2.04	0.40
1:W:108:THR:HB	1:W:210:TYR:O	2.21	0.40
1:W:132:THR:HG21	1:X:534:LEU:HD21	2.03	0.40
1:W:289:SER:HA	1:Y:188:VAL:HB	2.03	0.40
1:W:491:TYR:HA	1:W:504:ARG:HA	2.04	0.40
1:W:530:ASN:O	1:X:125:ALA:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:534:LEU:HD21	1:X:132:THR:HG21	2.03	0.40
1:X:82:ARG:HD3	1:X:82:ARG:HA	1.92	0.40
1:X:100:ASP:OD2	1:X:218:ASN:ND2	2.55	0.40
1:Y:333:GLY:HA2	1:Y:442:VAL:HG12	2.02	0.40
1:Z:100:ASP:OD2	1:Z:218:ASN:ND2	2.55	0.40
1:a:108:THR:HB	1:a:210:TYR:O	2.21	0.40
1:c:322:SER:C	1:c:324:ALA:N	2.80	0.40
1:c:376:LYS:HE3	1:c:393:GLN:HB3	2.04	0.40
1:d:85:ARG:HG3	1:d:85:ARG:O	2.22	0.40
1:d:333:GLY:HA2	1:d:442:VAL:HG12	2.02	0.40
1:d:435:THR:HG21	1:l:340:ARG:HE	1.86	0.40
1:e:116:ASN:O	1:e:453:ALA:HA	2.21	0.40
1:e:149:ILE:O	1:e:259:THR:HG23	2.21	0.40
1:e:334:TYR:CE2	1:e:354:ALA:HB2	2.56	0.40
1:e:376:LYS:HE3	1:e:393:GLN:HB3	2.04	0.40
1:g:356:PHE:HB2	1:g:405:THR:HG22	2.03	0.40
1:g:456:THR:OG1	1:h:329:ASN:ND2	2.52	0.40
1:h:149:ILE:O	1:h:259:THR:HG23	2.21	0.40
1:i:109:PRO:HB2	1:i:486:LYS:HE2	2.03	0.40
1:j:356:PHE:HB2	1:j:405:THR:HG22	2.03	0.40
1:j:530:ASN:O	1:w:125:ALA:HB2	2.22	0.40
1:k:154:VAL:HG22	1:k:167:TYR:CE1	2.48	0.40
1:k:376:LYS:HE3	1:k:393:GLN:HB3	2.04	0.40
1:m:85:ARG:HG3	1:m:85:ARG:O	2.22	0.40
1:n:333:GLY:HA2	1:n:442:VAL:HG12	2.02	0.40
1:o:132:THR:HG21	1:6:534:LEU:HD21	2.03	0.40
1:o:333:GLY:HA2	1:o:442:VAL:HG12	2.02	0.40
1:p:76:LYS:HB2	1:p:107:GLU:HB3	2.04	0.40
1:p:125:ALA:HB2	1:s:530:ASN:O	2.21	0.40
1:p:491:TYR:HA	1:p:504:ARG:HA	2.04	0.40
1:q:334:TYR:CE2	1:q:354:ALA:HB2	2.56	0.40
1:s:85:ARG:HG3	1:s:85:ARG:O	2.22	0.40
1:t:82:ARG:HG2	1:t:86:PHE:CD2	2.55	0.40
1:t:109:PRO:HB2	1:t:486:LYS:HE2	2.04	0.40
1:t:421:VAL:HG11	1:u:95:ARG:HG3	2.03	0.40
1:u:42:TYR:CD2	1:2:254:ILE:HD12	2.56	0.40
1:u:289:SER:HA	1:v:188:VAL:HB	2.02	0.40
1:v:92:LEU:HB3	1:v:95:ARG:HG2	2.02	0.40
1:v:530:ASN:O	1:y:125:ALA:HB2	2.21	0.40
1:v:534:LEU:HD21	1:y:132:THR:HG21	2.02	0.40
1:w:406:ASN:HA	1:x:342:HIS:HE1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:334:TYR:CE2	1:x:354:ALA:HB2	2.56	0.40
1:1:116:ASN:O	1:1:453:ALA:HA	2.21	0.40
1:2:85:ARG:CG	1:2:99:ASN:HD22	2.32	0.40
1:2:149:ILE:O	1:2:259:THR:HG23	2.22	0.40
1:2:334:TYR:CE2	1:2:354:ALA:HB2	2.56	0.40
1:2:530:ASN:O	1:4:125:ALA:HB2	2.21	0.40
1:3:333:GLY:HA2	1:3:442:VAL:HG12	2.02	0.40
1:5:149:ILE:O	1:5:259:THR:HG23	2.21	0.40
1:5:322:SER:C	1:5:324:ALA:N	2.80	0.40
1:7:100:ASP:OD2	1:7:218:ASN:ND2	2.55	0.40
1:7:333:GLY:HA2	1:7:442:VAL:HG12	2.02	0.40
1:8:92:LEU:HB3	1:8:95:ARG:HG2	2.02	0.40
1:8:100:ASP:OD2	1:8:218:ASN:ND2	2.55	0.40
1:B:456:THR:OG1	1:L:329:ASN:ND2	2.52	0.40
1:C:85:ARG:HG3	1:C:85:ARG:O	2.22	0.40
1:C:254:ILE:HD12	1:D:42:TYR:CD2	2.57	0.40
1:D:534:LEU:HD21	1:M:132:THR:HG21	2.03	0.40
1:E:92:LEU:HB3	1:E:95:ARG:HG2	2.02	0.40
1:F:334:TYR:CE2	1:F:354:ALA:HB2	2.56	0.40
1:H:116:ASN:O	1:H:453:ALA:HA	2.21	0.40
1:I:42:TYR:CD2	1:J:254:ILE:HD12	2.56	0.40
1:K:192:MET:HG3	1:8:326:ARG:NH2	2.33	0.40
1:P:186:PRO:O	1:P:210:TYR:OH	2.34	0.40
1:Q:534:LEU:HD23	1:R:534:LEU:HD23	2.03	0.40
1:R:82:ARG:HD3	1:R:82:ARG:HA	1.92	0.40
1:R:334:TYR:CE2	1:R:354:ALA:HB2	2.56	0.40
1:S:435:THR:HG21	1:U:340:ARG:HE	1.86	0.40
1:T:342:HIS:HE1	1:l:406:ASN:HA	1.87	0.40
1:U:530:ASN:O	1:V:125:ALA:HB2	2.21	0.40
1:V:76:LYS:HB2	1:V:107:GLU:HB3	2.04	0.40
1:V:100:ASP:OD2	1:V:218:ASN:ND2	2.55	0.40
1:V:491:TYR:HA	1:V:504:ARG:HA	2.04	0.40
1:W:334:TYR:CE2	1:W:354:ALA:HB2	2.56	0.40
1:W:435:THR:HG21	1:Y:340:ARG:HE	1.86	0.40
1:X:333:GLY:HA2	1:X:442:VAL:HG12	2.02	0.40
1:Y:100:ASP:OD2	1:Y:218:ASN:ND2	2.55	0.40
1:Z:109:PRO:HB2	1:Z:486:LYS:HE2	2.04	0.40
1:Z:339:TRP:HD1	1:3:415:ALA:O	2.02	0.40
1:a:111:PHE:O	1:a:484:LEU:HA	2.21	0.40
1:a:132:THR:HG21	1:3:534:LEU:HD21	2.03	0.40
1:a:334:TYR:CE2	1:a:354:ALA:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:85:ARG:HG3	1:b:85:ARG:O	2.22	0.40
1:b:125:ALA:HB2	1:c:530:ASN:O	2.22	0.40
1:c:116:ASN:O	1:c:453:ALA:HA	2.21	0.40
1:c:188:VAL:HB	1:p:289:SER:HA	2.03	0.40
1:c:334:TYR:CE2	1:c:354:ALA:HB2	2.56	0.40
1:e:322:SER:C	1:e:324:ALA:N	2.80	0.40
1:f:85:ARG:HG3	1:f:85:ARG:O	2.22	0.40
1:g:85:ARG:HG3	1:g:85:ARG:O	2.22	0.40
1:g:125:ALA:HB2	1:z:530:ASN:O	2.21	0.40
1:i:149:ILE:O	1:i:259:THR:HG23	2.21	0.40
1:i:356:PHE:HB2	1:i:405:THR:HG22	2.03	0.40
1:j:108:THR:HB	1:j:210:TYR:O	2.21	0.40
1:j:109:PRO:HB2	1:j:486:LYS:HE2	2.04	0.40
1:j:376:LYS:HE3	1:j:393:GLN:HB3	2.04	0.40
1:j:406:ASN:HA	1:k:342:HIS:HE1	1.86	0.40
1:k:109:PRO:HB2	1:k:486:LYS:HE2	2.03	0.40
1:m:435:THR:HG21	1:n:340:ARG:HE	1.86	0.40
1:m:530:ASN:O	1:r:125:ALA:HB2	2.22	0.40
1:n:111:PHE:O	1:n:484:LEU:HA	2.21	0.40
1:n:149:ILE:O	1:n:259:THR:HG23	2.21	0.40
1:o:100:ASP:OD2	1:o:218:ASN:ND2	2.55	0.40
1:o:534:LEU:HD21	1:6:132:THR:HG21	2.03	0.40
1:p:322:SER:C	1:p:324:ALA:N	2.80	0.40
1:p:501:GLY:C	1:p:503:ASN:N	2.75	0.40
1:q:85:ARG:HG3	1:q:85:ARG:O	2.22	0.40
1:q:289:SER:HA	1:r:188:VAL:HB	2.03	0.40
1:s:376:LYS:HE3	1:s:393:GLN:HB3	2.04	0.40
1:t:125:ALA:HB2	1:5:530:ASN:O	2.22	0.40
1:u:108:THR:HB	1:u:210:TYR:O	2.21	0.40
1:v:85:ARG:HG3	1:v:85:ARG:O	2.21	0.40
1:v:534:LEU:HD23	1:y:534:LEU:HD23	2.03	0.40
1:w:340:ARG:HE	1:y:435:THR:HG21	1.87	0.40
1:w:491:TYR:HA	1:w:504:ARG:HA	2.04	0.40
1:x:333:GLY:HA2	1:x:442:VAL:HG12	2.02	0.40
1:x:421:VAL:HG11	1:y:95:ARG:HG3	2.04	0.40
1:z:111:PHE:O	1:z:484:LEU:HA	2.21	0.40
1:z:406:ASN:HA	1:1:342:HIS:HE1	1.86	0.40
1:z:435:THR:HG21	1:1:340:ARG:HE	1.86	0.40
1:2:76:LYS:HB2	1:2:107:GLU:HB3	2.04	0.40
1:3:111:PHE:O	1:3:484:LEU:HA	2.21	0.40
1:5:82:ARG:HD3	1:5:82:ARG:HA	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:534:LEU:HD21	1:8:132:THR:HG21	2.03	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	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	2	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	3	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	4	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	5	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	6	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	7	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	8	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	A	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	B	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	C	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	D	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	E	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	F	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	G	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	H	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	I	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	J	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	K	535/707 (76%)	506 (95%)	29 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	L	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	M	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	N	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	O	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	P	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	Q	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	R	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	S	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	T	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	U	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	V	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	W	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	X	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	Y	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	Z	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	a	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	b	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	c	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	d	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	e	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	f	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	g	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	h	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	i	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	j	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	k	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	l	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	m	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	n	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	o	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	p	535/707 (76%)	506 (95%)	29 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	q	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	r	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	s	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	t	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	u	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	v	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	w	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	x	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	y	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
1	z	535/707 (76%)	506 (95%)	29 (5%)	0	100	100
All	All	32100/42420 (76%)	30360 (95%)	1740 (5%)	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	473/609 (78%)	473 (100%)	0	100	100
1	2	473/609 (78%)	473 (100%)	0	100	100
1	3	473/609 (78%)	473 (100%)	0	100	100
1	4	473/609 (78%)	473 (100%)	0	100	100
1	5	473/609 (78%)	473 (100%)	0	100	100
1	6	473/609 (78%)	473 (100%)	0	100	100
1	7	473/609 (78%)	473 (100%)	0	100	100
1	8	473/609 (78%)	473 (100%)	0	100	100
1	A	473/609 (78%)	473 (100%)	0	100	100
1	B	473/609 (78%)	473 (100%)	0	100	100
1	C	473/609 (78%)	473 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	473/609 (78%)	473 (100%)	0	100	100
1	E	473/609 (78%)	473 (100%)	0	100	100
1	F	473/609 (78%)	473 (100%)	0	100	100
1	G	473/609 (78%)	473 (100%)	0	100	100
1	H	473/609 (78%)	473 (100%)	0	100	100
1	I	473/609 (78%)	473 (100%)	0	100	100
1	J	473/609 (78%)	473 (100%)	0	100	100
1	K	473/609 (78%)	473 (100%)	0	100	100
1	L	473/609 (78%)	473 (100%)	0	100	100
1	M	473/609 (78%)	473 (100%)	0	100	100
1	N	473/609 (78%)	473 (100%)	0	100	100
1	O	473/609 (78%)	473 (100%)	0	100	100
1	P	473/609 (78%)	473 (100%)	0	100	100
1	Q	473/609 (78%)	473 (100%)	0	100	100
1	R	473/609 (78%)	473 (100%)	0	100	100
1	S	473/609 (78%)	473 (100%)	0	100	100
1	T	473/609 (78%)	473 (100%)	0	100	100
1	U	473/609 (78%)	473 (100%)	0	100	100
1	V	473/609 (78%)	473 (100%)	0	100	100
1	W	473/609 (78%)	473 (100%)	0	100	100
1	X	473/609 (78%)	473 (100%)	0	100	100
1	Y	473/609 (78%)	473 (100%)	0	100	100
1	Z	473/609 (78%)	473 (100%)	0	100	100
1	a	473/609 (78%)	473 (100%)	0	100	100
1	b	473/609 (78%)	473 (100%)	0	100	100
1	c	473/609 (78%)	473 (100%)	0	100	100
1	d	473/609 (78%)	473 (100%)	0	100	100
1	e	473/609 (78%)	473 (100%)	0	100	100
1	f	473/609 (78%)	473 (100%)	0	100	100
1	g	473/609 (78%)	473 (100%)	0	100	100
1	h	473/609 (78%)	473 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	i	473/609 (78%)	473 (100%)	0	100	100
1	j	473/609 (78%)	473 (100%)	0	100	100
1	k	473/609 (78%)	473 (100%)	0	100	100
1	l	473/609 (78%)	473 (100%)	0	100	100
1	m	473/609 (78%)	473 (100%)	0	100	100
1	n	473/609 (78%)	473 (100%)	0	100	100
1	o	473/609 (78%)	473 (100%)	0	100	100
1	p	473/609 (78%)	473 (100%)	0	100	100
1	q	473/609 (78%)	473 (100%)	0	100	100
1	r	473/609 (78%)	473 (100%)	0	100	100
1	s	473/609 (78%)	473 (100%)	0	100	100
1	t	473/609 (78%)	473 (100%)	0	100	100
1	u	473/609 (78%)	473 (100%)	0	100	100
1	v	473/609 (78%)	473 (100%)	0	100	100
1	w	473/609 (78%)	473 (100%)	0	100	100
1	x	473/609 (78%)	473 (100%)	0	100	100
1	y	473/609 (78%)	473 (100%)	0	100	100
1	z	473/609 (78%)	473 (100%)	0	100	100
All	All	28380/36540 (78%)	28380 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1370) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	44	ASN
1	A	51	HIS
1	A	60	HIS
1	A	66	HIS
1	A	103	HIS
1	A	105	GLN
1	A	129	GLN
1	A	148	ASN
1	A	157	GLN
1	A	280	HIS

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Mol	Chain	Res	Type
1	A	286	HIS
1	A	291	HIS
1	A	297	ASN
1	A	331	HIS
1	A	342	HIS
1	A	390	HIS
1	A	413	HIS
1	A	430	GLN
1	A	448	GLN
1	A	463	HIS
1	A	470	HIS
1	A	503	ASN
1	B	44	ASN
1	B	51	HIS
1	B	60	HIS
1	B	66	HIS
1	B	103	HIS
1	B	105	GLN
1	B	129	GLN
1	B	148	ASN
1	B	157	GLN
1	B	280	HIS
1	B	286	HIS
1	B	291	HIS
1	B	297	ASN
1	B	331	HIS
1	B	342	HIS
1	B	390	HIS
1	B	413	HIS
1	B	430	GLN
1	B	448	GLN
1	B	463	HIS
1	B	470	HIS
1	C	37	HIS
1	C	44	ASN
1	C	51	HIS
1	C	60	HIS
1	C	66	HIS
1	C	103	HIS
1	C	105	GLN
1	C	129	GLN
1	C	148	ASN

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Mol	Chain	Res	Type
1	C	157	GLN
1	C	280	HIS
1	C	286	HIS
1	C	291	HIS
1	C	297	ASN
1	C	305	ASN
1	C	331	HIS
1	C	342	HIS
1	C	390	HIS
1	C	413	HIS
1	C	448	GLN
1	C	463	HIS
1	C	470	HIS
1	C	503	ASN
1	D	44	ASN
1	D	51	HIS
1	D	60	HIS
1	D	66	HIS
1	D	103	HIS
1	D	105	GLN
1	D	129	GLN
1	D	148	ASN
1	D	157	GLN
1	D	280	HIS
1	D	286	HIS
1	D	291	HIS
1	D	297	ASN
1	D	331	HIS
1	D	342	HIS
1	D	390	HIS
1	D	413	HIS
1	D	430	GLN
1	D	433	HIS
1	D	448	GLN
1	D	463	HIS
1	D	470	HIS
1	D	503	ASN
1	E	44	ASN
1	E	51	HIS
1	E	60	HIS
1	E	66	HIS
1	E	103	HIS

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Mol	Chain	Res	Type
1	E	105	GLN
1	E	129	GLN
1	E	148	ASN
1	E	157	GLN
1	E	280	HIS
1	E	286	HIS
1	E	291	HIS
1	E	297	ASN
1	E	331	HIS
1	E	342	HIS
1	E	390	HIS
1	E	413	HIS
1	E	430	GLN
1	E	448	GLN
1	E	463	HIS
1	E	470	HIS
1	E	503	ASN
1	F	44	ASN
1	F	51	HIS
1	F	60	HIS
1	F	66	HIS
1	F	103	HIS
1	F	105	GLN
1	F	129	GLN
1	F	148	ASN
1	F	157	GLN
1	F	280	HIS
1	F	286	HIS
1	F	291	HIS
1	F	297	ASN
1	F	305	ASN
1	F	331	HIS
1	F	342	HIS
1	F	390	HIS
1	F	413	HIS
1	F	430	GLN
1	F	433	HIS
1	F	448	GLN
1	F	463	HIS
1	F	470	HIS
1	G	44	ASN
1	G	51	HIS

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Mol	Chain	Res	Type
1	G	60	HIS
1	G	66	HIS
1	G	103	HIS
1	G	105	GLN
1	G	129	GLN
1	G	148	ASN
1	G	157	GLN
1	G	280	HIS
1	G	286	HIS
1	G	291	HIS
1	G	297	ASN
1	G	331	HIS
1	G	342	HIS
1	G	390	HIS
1	G	413	HIS
1	G	430	GLN
1	G	433	HIS
1	G	448	GLN
1	G	463	HIS
1	G	470	HIS
1	G	503	ASN
1	H	44	ASN
1	H	51	HIS
1	H	60	HIS
1	H	66	HIS
1	H	103	HIS
1	H	105	GLN
1	H	129	GLN
1	H	148	ASN
1	H	157	GLN
1	H	280	HIS
1	H	286	HIS
1	H	291	HIS
1	H	297	ASN
1	H	331	HIS
1	H	342	HIS
1	H	390	HIS
1	H	413	HIS
1	H	430	GLN
1	H	448	GLN
1	H	463	HIS
1	H	470	HIS

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Mol	Chain	Res	Type
1	I	51	HIS
1	I	60	HIS
1	I	66	HIS
1	I	103	HIS
1	I	105	GLN
1	I	129	GLN
1	I	148	ASN
1	I	157	GLN
1	I	280	HIS
1	I	286	HIS
1	I	291	HIS
1	I	297	ASN
1	I	331	HIS
1	I	342	HIS
1	I	390	HIS
1	I	413	HIS
1	I	430	GLN
1	I	433	HIS
1	I	448	GLN
1	I	463	HIS
1	I	470	HIS
1	J	44	ASN
1	J	51	HIS
1	J	60	HIS
1	J	66	HIS
1	J	103	HIS
1	J	105	GLN
1	J	129	GLN
1	J	148	ASN
1	J	157	GLN
1	J	280	HIS
1	J	286	HIS
1	J	291	HIS
1	J	297	ASN
1	J	331	HIS
1	J	342	HIS
1	J	390	HIS
1	J	413	HIS
1	J	430	GLN
1	J	433	HIS
1	J	448	GLN
1	J	463	HIS

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Mol	Chain	Res	Type
1	J	470	HIS
1	K	44	ASN
1	K	51	HIS
1	K	60	HIS
1	K	66	HIS
1	K	103	HIS
1	K	105	GLN
1	K	129	GLN
1	K	148	ASN
1	K	157	GLN
1	K	280	HIS
1	K	286	HIS
1	K	291	HIS
1	K	297	ASN
1	K	305	ASN
1	K	331	HIS
1	K	342	HIS
1	K	390	HIS
1	K	413	HIS
1	K	430	GLN
1	K	433	HIS
1	K	448	GLN
1	K	463	HIS
1	K	470	HIS
1	K	503	ASN
1	L	44	ASN
1	L	51	HIS
1	L	60	HIS
1	L	66	HIS
1	L	103	HIS
1	L	105	GLN
1	L	129	GLN
1	L	148	ASN
1	L	157	GLN
1	L	280	HIS
1	L	286	HIS
1	L	291	HIS
1	L	297	ASN
1	L	305	ASN
1	L	331	HIS
1	L	342	HIS
1	L	390	HIS

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Mol	Chain	Res	Type
1	L	413	HIS
1	L	430	GLN
1	L	433	HIS
1	L	448	GLN
1	L	463	HIS
1	L	470	HIS
1	L	503	ASN
1	M	44	ASN
1	M	51	HIS
1	M	60	HIS
1	M	66	HIS
1	M	103	HIS
1	M	105	GLN
1	M	129	GLN
1	M	148	ASN
1	M	157	GLN
1	M	280	HIS
1	M	286	HIS
1	M	291	HIS
1	M	297	ASN
1	M	331	HIS
1	M	342	HIS
1	M	390	HIS
1	M	413	HIS
1	M	430	GLN
1	M	433	HIS
1	M	448	GLN
1	M	463	HIS
1	M	470	HIS
1	N	44	ASN
1	N	51	HIS
1	N	60	HIS
1	N	66	HIS
1	N	103	HIS
1	N	105	GLN
1	N	129	GLN
1	N	148	ASN
1	N	157	GLN
1	N	280	HIS
1	N	286	HIS
1	N	291	HIS
1	N	297	ASN

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Mol	Chain	Res	Type
1	N	305	ASN
1	N	331	HIS
1	N	342	HIS
1	N	390	HIS
1	N	413	HIS
1	N	430	GLN
1	N	448	GLN
1	N	463	HIS
1	N	470	HIS
1	N	503	ASN
1	O	44	ASN
1	O	51	HIS
1	O	60	HIS
1	O	66	HIS
1	O	103	HIS
1	O	105	GLN
1	O	129	GLN
1	O	148	ASN
1	O	157	GLN
1	O	280	HIS
1	O	286	HIS
1	O	291	HIS
1	O	297	ASN
1	O	331	HIS
1	O	342	HIS
1	O	390	HIS
1	O	413	HIS
1	O	430	GLN
1	O	448	GLN
1	O	463	HIS
1	O	470	HIS
1	O	503	ASN
1	P	44	ASN
1	P	51	HIS
1	P	60	HIS
1	P	66	HIS
1	P	103	HIS
1	P	105	GLN
1	P	129	GLN
1	P	148	ASN
1	P	157	GLN
1	P	280	HIS

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Mol	Chain	Res	Type
1	P	286	HIS
1	P	291	HIS
1	P	297	ASN
1	P	305	ASN
1	P	331	HIS
1	P	342	HIS
1	P	390	HIS
1	P	413	HIS
1	P	430	GLN
1	P	433	HIS
1	P	448	GLN
1	P	463	HIS
1	P	470	HIS
1	P	503	ASN
1	Q	37	HIS
1	Q	44	ASN
1	Q	51	HIS
1	Q	60	HIS
1	Q	66	HIS
1	Q	103	HIS
1	Q	105	GLN
1	Q	129	GLN
1	Q	148	ASN
1	Q	157	GLN
1	Q	280	HIS
1	Q	286	HIS
1	Q	291	HIS
1	Q	297	ASN
1	Q	331	HIS
1	Q	342	HIS
1	Q	390	HIS
1	Q	413	HIS
1	Q	430	GLN
1	Q	433	HIS
1	Q	448	GLN
1	Q	463	HIS
1	Q	470	HIS
1	Q	503	ASN
1	R	44	ASN
1	R	51	HIS
1	R	60	HIS
1	R	66	HIS

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Mol	Chain	Res	Type
1	R	103	HIS
1	R	105	GLN
1	R	129	GLN
1	R	148	ASN
1	R	157	GLN
1	R	280	HIS
1	R	286	HIS
1	R	291	HIS
1	R	297	ASN
1	R	305	ASN
1	R	331	HIS
1	R	342	HIS
1	R	390	HIS
1	R	413	HIS
1	R	430	GLN
1	R	433	HIS
1	R	448	GLN
1	R	463	HIS
1	R	470	HIS
1	S	44	ASN
1	S	51	HIS
1	S	60	HIS
1	S	66	HIS
1	S	103	HIS
1	S	105	GLN
1	S	129	GLN
1	S	148	ASN
1	S	157	GLN
1	S	280	HIS
1	S	286	HIS
1	S	291	HIS
1	S	297	ASN
1	S	305	ASN
1	S	331	HIS
1	S	342	HIS
1	S	390	HIS
1	S	413	HIS
1	S	430	GLN
1	S	448	GLN
1	S	463	HIS
1	S	470	HIS
1	S	503	ASN

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Mol	Chain	Res	Type
1	T	44	ASN
1	T	51	HIS
1	T	60	HIS
1	T	66	HIS
1	T	103	HIS
1	T	105	GLN
1	T	129	GLN
1	T	148	ASN
1	T	157	GLN
1	T	280	HIS
1	T	286	HIS
1	T	291	HIS
1	T	297	ASN
1	T	305	ASN
1	T	331	HIS
1	T	342	HIS
1	T	390	HIS
1	T	413	HIS
1	T	430	GLN
1	T	433	HIS
1	T	448	GLN
1	T	463	HIS
1	T	470	HIS
1	U	44	ASN
1	U	51	HIS
1	U	60	HIS
1	U	66	HIS
1	U	103	HIS
1	U	105	GLN
1	U	129	GLN
1	U	148	ASN
1	U	157	GLN
1	U	280	HIS
1	U	286	HIS
1	U	291	HIS
1	U	297	ASN
1	U	305	ASN
1	U	331	HIS
1	U	342	HIS
1	U	390	HIS
1	U	413	HIS
1	U	430	GLN

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Mol	Chain	Res	Type
1	U	433	HIS
1	U	448	GLN
1	U	463	HIS
1	U	470	HIS
1	U	503	ASN
1	V	44	ASN
1	V	51	HIS
1	V	60	HIS
1	V	66	HIS
1	V	103	HIS
1	V	105	GLN
1	V	129	GLN
1	V	148	ASN
1	V	157	GLN
1	V	280	HIS
1	V	286	HIS
1	V	291	HIS
1	V	297	ASN
1	V	305	ASN
1	V	331	HIS
1	V	342	HIS
1	V	390	HIS
1	V	413	HIS
1	V	430	GLN
1	V	433	HIS
1	V	448	GLN
1	V	463	HIS
1	V	470	HIS
1	V	503	ASN
1	W	44	ASN
1	W	51	HIS
1	W	60	HIS
1	W	66	HIS
1	W	103	HIS
1	W	105	GLN
1	W	129	GLN
1	W	148	ASN
1	W	157	GLN
1	W	280	HIS
1	W	286	HIS
1	W	291	HIS
1	W	297	ASN

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Mol	Chain	Res	Type
1	W	331	HIS
1	W	342	HIS
1	W	390	HIS
1	W	413	HIS
1	W	430	GLN
1	W	433	HIS
1	W	448	GLN
1	W	463	HIS
1	W	470	HIS
1	X	44	ASN
1	X	51	HIS
1	X	60	HIS
1	X	66	HIS
1	X	103	HIS
1	X	105	GLN
1	X	129	GLN
1	X	148	ASN
1	X	157	GLN
1	X	280	HIS
1	X	286	HIS
1	X	291	HIS
1	X	297	ASN
1	X	331	HIS
1	X	342	HIS
1	X	390	HIS
1	X	393	GLN
1	X	413	HIS
1	X	430	GLN
1	X	448	GLN
1	X	463	HIS
1	X	470	HIS
1	Y	44	ASN
1	Y	51	HIS
1	Y	60	HIS
1	Y	66	HIS
1	Y	103	HIS
1	Y	105	GLN
1	Y	129	GLN
1	Y	148	ASN
1	Y	157	GLN
1	Y	280	HIS
1	Y	286	HIS

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Mol	Chain	Res	Type
1	Y	291	HIS
1	Y	297	ASN
1	Y	331	HIS
1	Y	342	HIS
1	Y	390	HIS
1	Y	413	HIS
1	Y	430	GLN
1	Y	433	HIS
1	Y	448	GLN
1	Y	463	HIS
1	Y	470	HIS
1	Z	44	ASN
1	Z	51	HIS
1	Z	60	HIS
1	Z	66	HIS
1	Z	103	HIS
1	Z	105	GLN
1	Z	129	GLN
1	Z	148	ASN
1	Z	157	GLN
1	Z	280	HIS
1	Z	286	HIS
1	Z	291	HIS
1	Z	297	ASN
1	Z	305	ASN
1	Z	331	HIS
1	Z	342	HIS
1	Z	390	HIS
1	Z	413	HIS
1	Z	430	GLN
1	Z	433	HIS
1	Z	448	GLN
1	Z	463	HIS
1	Z	470	HIS
1	a	44	ASN
1	a	51	HIS
1	a	60	HIS
1	a	66	HIS
1	a	103	HIS
1	a	105	GLN
1	a	129	GLN
1	a	148	ASN

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Mol	Chain	Res	Type
1	a	157	GLN
1	a	280	HIS
1	a	286	HIS
1	a	291	HIS
1	a	297	ASN
1	a	305	ASN
1	a	331	HIS
1	a	342	HIS
1	a	390	HIS
1	a	413	HIS
1	a	430	GLN
1	a	448	GLN
1	a	463	HIS
1	a	470	HIS
1	b	44	ASN
1	b	51	HIS
1	b	60	HIS
1	b	66	HIS
1	b	103	HIS
1	b	105	GLN
1	b	129	GLN
1	b	148	ASN
1	b	157	GLN
1	b	280	HIS
1	b	286	HIS
1	b	291	HIS
1	b	297	ASN
1	b	331	HIS
1	b	342	HIS
1	b	390	HIS
1	b	413	HIS
1	b	430	GLN
1	b	433	HIS
1	b	448	GLN
1	b	463	HIS
1	b	470	HIS
1	c	44	ASN
1	c	51	HIS
1	c	60	HIS
1	c	66	HIS
1	c	103	HIS
1	c	105	GLN

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Mol	Chain	Res	Type
1	c	129	GLN
1	c	148	ASN
1	c	157	GLN
1	c	280	HIS
1	c	286	HIS
1	c	291	HIS
1	c	297	ASN
1	c	305	ASN
1	c	331	HIS
1	c	342	HIS
1	c	390	HIS
1	c	413	HIS
1	c	430	GLN
1	c	433	HIS
1	c	448	GLN
1	c	463	HIS
1	c	470	HIS
1	d	44	ASN
1	d	51	HIS
1	d	60	HIS
1	d	66	HIS
1	d	103	HIS
1	d	105	GLN
1	d	129	GLN
1	d	148	ASN
1	d	157	GLN
1	d	280	HIS
1	d	286	HIS
1	d	291	HIS
1	d	297	ASN
1	d	305	ASN
1	d	331	HIS
1	d	342	HIS
1	d	390	HIS
1	d	413	HIS
1	d	430	GLN
1	d	433	HIS
1	d	448	GLN
1	d	463	HIS
1	d	470	HIS
1	e	44	ASN
1	e	51	HIS

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Mol	Chain	Res	Type
1	e	60	HIS
1	e	66	HIS
1	e	103	HIS
1	e	105	GLN
1	e	129	GLN
1	e	148	ASN
1	e	157	GLN
1	e	280	HIS
1	e	286	HIS
1	e	291	HIS
1	e	297	ASN
1	e	305	ASN
1	e	331	HIS
1	e	342	HIS
1	e	390	HIS
1	e	413	HIS
1	e	430	GLN
1	e	433	HIS
1	e	448	GLN
1	e	463	HIS
1	e	470	HIS
1	f	44	ASN
1	f	51	HIS
1	f	60	HIS
1	f	66	HIS
1	f	103	HIS
1	f	105	GLN
1	f	129	GLN
1	f	148	ASN
1	f	157	GLN
1	f	280	HIS
1	f	286	HIS
1	f	291	HIS
1	f	297	ASN
1	f	305	ASN
1	f	331	HIS
1	f	342	HIS
1	f	390	HIS
1	f	413	HIS
1	f	430	GLN
1	f	433	HIS
1	f	448	GLN

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Mol	Chain	Res	Type
1	f	463	HIS
1	f	470	HIS
1	g	44	ASN
1	g	51	HIS
1	g	60	HIS
1	g	66	HIS
1	g	103	HIS
1	g	105	GLN
1	g	129	GLN
1	g	148	ASN
1	g	157	GLN
1	g	280	HIS
1	g	286	HIS
1	g	291	HIS
1	g	297	ASN
1	g	305	ASN
1	g	331	HIS
1	g	342	HIS
1	g	390	HIS
1	g	413	HIS
1	g	430	GLN
1	g	448	GLN
1	g	463	HIS
1	g	470	HIS
1	g	503	ASN
1	h	44	ASN
1	h	51	HIS
1	h	60	HIS
1	h	66	HIS
1	h	103	HIS
1	h	105	GLN
1	h	129	GLN
1	h	148	ASN
1	h	157	GLN
1	h	280	HIS
1	h	286	HIS
1	h	291	HIS
1	h	297	ASN
1	h	305	ASN
1	h	331	HIS
1	h	342	HIS
1	h	390	HIS

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Mol	Chain	Res	Type
1	h	413	HIS
1	h	430	GLN
1	h	433	HIS
1	h	448	GLN
1	h	463	HIS
1	h	470	HIS
1	h	503	ASN
1	i	44	ASN
1	i	51	HIS
1	i	60	HIS
1	i	66	HIS
1	i	103	HIS
1	i	105	GLN
1	i	129	GLN
1	i	148	ASN
1	i	157	GLN
1	i	280	HIS
1	i	286	HIS
1	i	291	HIS
1	i	297	ASN
1	i	305	ASN
1	i	331	HIS
1	i	342	HIS
1	i	390	HIS
1	i	413	HIS
1	i	430	GLN
1	i	433	HIS
1	i	448	GLN
1	i	463	HIS
1	i	470	HIS
1	i	503	ASN
1	j	44	ASN
1	j	51	HIS
1	j	60	HIS
1	j	66	HIS
1	j	103	HIS
1	j	105	GLN
1	j	129	GLN
1	j	148	ASN
1	j	157	GLN
1	j	280	HIS
1	j	286	HIS

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Mol	Chain	Res	Type
1	j	291	HIS
1	j	297	ASN
1	j	305	ASN
1	j	331	HIS
1	j	342	HIS
1	j	390	HIS
1	j	413	HIS
1	j	430	GLN
1	j	433	HIS
1	j	448	GLN
1	j	463	HIS
1	j	470	HIS
1	j	503	ASN
1	k	44	ASN
1	k	51	HIS
1	k	60	HIS
1	k	66	HIS
1	k	103	HIS
1	k	105	GLN
1	k	129	GLN
1	k	148	ASN
1	k	157	GLN
1	k	280	HIS
1	k	286	HIS
1	k	291	HIS
1	k	297	ASN
1	k	305	ASN
1	k	331	HIS
1	k	342	HIS
1	k	390	HIS
1	k	413	HIS
1	k	430	GLN
1	k	448	GLN
1	k	463	HIS
1	k	470	HIS
1	k	503	ASN
1	l	44	ASN
1	l	51	HIS
1	l	60	HIS
1	l	66	HIS
1	l	103	HIS
1	l	105	GLN

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Mol	Chain	Res	Type
1	l	129	GLN
1	l	148	ASN
1	l	157	GLN
1	l	280	HIS
1	l	286	HIS
1	l	291	HIS
1	l	297	ASN
1	l	305	ASN
1	l	331	HIS
1	l	342	HIS
1	l	390	HIS
1	l	413	HIS
1	l	430	GLN
1	l	448	GLN
1	l	463	HIS
1	l	470	HIS
1	l	503	ASN
1	m	44	ASN
1	m	51	HIS
1	m	60	HIS
1	m	66	HIS
1	m	103	HIS
1	m	105	GLN
1	m	129	GLN
1	m	148	ASN
1	m	157	GLN
1	m	280	HIS
1	m	286	HIS
1	m	291	HIS
1	m	297	ASN
1	m	305	ASN
1	m	331	HIS
1	m	342	HIS
1	m	390	HIS
1	m	413	HIS
1	m	430	GLN
1	m	433	HIS
1	m	448	GLN
1	m	463	HIS
1	m	470	HIS
1	n	44	ASN
1	n	51	HIS

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Mol	Chain	Res	Type
1	n	60	HIS
1	n	66	HIS
1	n	103	HIS
1	n	105	GLN
1	n	129	GLN
1	n	148	ASN
1	n	157	GLN
1	n	280	HIS
1	n	286	HIS
1	n	291	HIS
1	n	297	ASN
1	n	305	ASN
1	n	331	HIS
1	n	342	HIS
1	n	390	HIS
1	n	413	HIS
1	n	430	GLN
1	n	433	HIS
1	n	448	GLN
1	n	463	HIS
1	n	470	HIS
1	o	44	ASN
1	o	51	HIS
1	o	60	HIS
1	o	66	HIS
1	o	103	HIS
1	o	105	GLN
1	o	129	GLN
1	o	148	ASN
1	o	157	GLN
1	o	280	HIS
1	o	286	HIS
1	o	291	HIS
1	o	297	ASN
1	o	305	ASN
1	o	331	HIS
1	o	342	HIS
1	o	390	HIS
1	o	413	HIS
1	o	430	GLN
1	o	448	GLN
1	o	463	HIS

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Mol	Chain	Res	Type
1	o	470	HIS
1	p	44	ASN
1	p	51	HIS
1	p	60	HIS
1	p	66	HIS
1	p	103	HIS
1	p	105	GLN
1	p	129	GLN
1	p	148	ASN
1	p	157	GLN
1	p	280	HIS
1	p	286	HIS
1	p	291	HIS
1	p	297	ASN
1	p	305	ASN
1	p	331	HIS
1	p	342	HIS
1	p	390	HIS
1	p	413	HIS
1	p	430	GLN
1	p	433	HIS
1	p	448	GLN
1	p	463	HIS
1	p	470	HIS
1	q	44	ASN
1	q	51	HIS
1	q	60	HIS
1	q	66	HIS
1	q	103	HIS
1	q	105	GLN
1	q	129	GLN
1	q	148	ASN
1	q	157	GLN
1	q	280	HIS
1	q	286	HIS
1	q	291	HIS
1	q	297	ASN
1	q	331	HIS
1	q	342	HIS
1	q	390	HIS
1	q	413	HIS
1	q	430	GLN

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Mol	Chain	Res	Type
1	q	433	HIS
1	q	448	GLN
1	q	463	HIS
1	q	470	HIS
1	r	44	ASN
1	r	51	HIS
1	r	60	HIS
1	r	66	HIS
1	r	103	HIS
1	r	105	GLN
1	r	129	GLN
1	r	148	ASN
1	r	157	GLN
1	r	280	HIS
1	r	286	HIS
1	r	291	HIS
1	r	297	ASN
1	r	305	ASN
1	r	331	HIS
1	r	342	HIS
1	r	390	HIS
1	r	413	HIS
1	r	430	GLN
1	r	448	GLN
1	r	463	HIS
1	r	470	HIS
1	r	503	ASN
1	s	44	ASN
1	s	51	HIS
1	s	60	HIS
1	s	66	HIS
1	s	103	HIS
1	s	105	GLN
1	s	129	GLN
1	s	148	ASN
1	s	157	GLN
1	s	280	HIS
1	s	286	HIS
1	s	291	HIS
1	s	297	ASN
1	s	331	HIS
1	s	342	HIS

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Mol	Chain	Res	Type
1	s	390	HIS
1	s	413	HIS
1	s	430	GLN
1	s	433	HIS
1	s	448	GLN
1	s	463	HIS
1	s	470	HIS
1	s	503	ASN
1	t	44	ASN
1	t	51	HIS
1	t	60	HIS
1	t	66	HIS
1	t	103	HIS
1	t	105	GLN
1	t	129	GLN
1	t	148	ASN
1	t	157	GLN
1	t	280	HIS
1	t	286	HIS
1	t	291	HIS
1	t	297	ASN
1	t	331	HIS
1	t	342	HIS
1	t	390	HIS
1	t	413	HIS
1	t	430	GLN
1	t	433	HIS
1	t	448	GLN
1	t	463	HIS
1	t	470	HIS
1	t	503	ASN
1	u	44	ASN
1	u	51	HIS
1	u	60	HIS
1	u	66	HIS
1	u	103	HIS
1	u	105	GLN
1	u	129	GLN
1	u	148	ASN
1	u	157	GLN
1	u	280	HIS
1	u	286	HIS

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Mol	Chain	Res	Type
1	u	291	HIS
1	u	297	ASN
1	u	305	ASN
1	u	331	HIS
1	u	342	HIS
1	u	390	HIS
1	u	413	HIS
1	u	430	GLN
1	u	433	HIS
1	u	448	GLN
1	u	463	HIS
1	u	470	HIS
1	v	44	ASN
1	v	51	HIS
1	v	60	HIS
1	v	66	HIS
1	v	103	HIS
1	v	105	GLN
1	v	129	GLN
1	v	148	ASN
1	v	157	GLN
1	v	280	HIS
1	v	286	HIS
1	v	291	HIS
1	v	297	ASN
1	v	331	HIS
1	v	342	HIS
1	v	390	HIS
1	v	413	HIS
1	v	430	GLN
1	v	448	GLN
1	v	463	HIS
1	v	470	HIS
1	v	503	ASN
1	w	44	ASN
1	w	51	HIS
1	w	60	HIS
1	w	66	HIS
1	w	103	HIS
1	w	105	GLN
1	w	129	GLN
1	w	148	ASN

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Mol	Chain	Res	Type
1	w	157	GLN
1	w	280	HIS
1	w	286	HIS
1	w	291	HIS
1	w	297	ASN
1	w	305	ASN
1	w	331	HIS
1	w	342	HIS
1	w	390	HIS
1	w	413	HIS
1	w	430	GLN
1	w	448	GLN
1	w	463	HIS
1	w	470	HIS
1	w	503	ASN
1	x	37	HIS
1	x	44	ASN
1	x	51	HIS
1	x	60	HIS
1	x	66	HIS
1	x	103	HIS
1	x	105	GLN
1	x	129	GLN
1	x	148	ASN
1	x	157	GLN
1	x	280	HIS
1	x	286	HIS
1	x	291	HIS
1	x	297	ASN
1	x	331	HIS
1	x	342	HIS
1	x	390	HIS
1	x	413	HIS
1	x	430	GLN
1	x	433	HIS
1	x	448	GLN
1	x	463	HIS
1	x	470	HIS
1	x	503	ASN
1	y	44	ASN
1	y	51	HIS
1	y	60	HIS

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Mol	Chain	Res	Type
1	y	66	HIS
1	y	103	HIS
1	y	105	GLN
1	y	129	GLN
1	y	148	ASN
1	y	157	GLN
1	y	280	HIS
1	y	286	HIS
1	y	291	HIS
1	y	297	ASN
1	y	305	ASN
1	y	331	HIS
1	y	342	HIS
1	y	390	HIS
1	y	413	HIS
1	y	430	GLN
1	y	433	HIS
1	y	448	GLN
1	y	463	HIS
1	y	470	HIS
1	y	503	ASN
1	z	44	ASN
1	z	51	HIS
1	z	60	HIS
1	z	66	HIS
1	z	103	HIS
1	z	105	GLN
1	z	129	GLN
1	z	148	ASN
1	z	157	GLN
1	z	280	HIS
1	z	286	HIS
1	z	291	HIS
1	z	297	ASN
1	z	331	HIS
1	z	342	HIS
1	z	390	HIS
1	z	413	HIS
1	z	430	GLN
1	z	448	GLN
1	z	463	HIS
1	z	470	HIS

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Mol	Chain	Res	Type
1	z	503	ASN
1	1	44	ASN
1	1	51	HIS
1	1	60	HIS
1	1	66	HIS
1	1	103	HIS
1	1	105	GLN
1	1	129	GLN
1	1	148	ASN
1	1	157	GLN
1	1	280	HIS
1	1	286	HIS
1	1	291	HIS
1	1	297	ASN
1	1	305	ASN
1	1	331	HIS
1	1	342	HIS
1	1	390	HIS
1	1	413	HIS
1	1	430	GLN
1	1	433	HIS
1	1	448	GLN
1	1	463	HIS
1	1	470	HIS
1	2	44	ASN
1	2	51	HIS
1	2	60	HIS
1	2	66	HIS
1	2	103	HIS
1	2	105	GLN
1	2	129	GLN
1	2	148	ASN
1	2	157	GLN
1	2	280	HIS
1	2	286	HIS
1	2	291	HIS
1	2	297	ASN
1	2	331	HIS
1	2	342	HIS
1	2	390	HIS
1	2	413	HIS
1	2	430	GLN

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Mol	Chain	Res	Type
1	2	433	HIS
1	2	448	GLN
1	2	463	HIS
1	2	470	HIS
1	2	503	ASN
1	3	44	ASN
1	3	51	HIS
1	3	60	HIS
1	3	66	HIS
1	3	103	HIS
1	3	105	GLN
1	3	129	GLN
1	3	148	ASN
1	3	157	GLN
1	3	280	HIS
1	3	286	HIS
1	3	291	HIS
1	3	297	ASN
1	3	305	ASN
1	3	331	HIS
1	3	342	HIS
1	3	390	HIS
1	3	413	HIS
1	3	430	GLN
1	3	448	GLN
1	3	463	HIS
1	3	470	HIS
1	3	503	ASN
1	4	44	ASN
1	4	51	HIS
1	4	60	HIS
1	4	66	HIS
1	4	103	HIS
1	4	105	GLN
1	4	129	GLN
1	4	148	ASN
1	4	157	GLN
1	4	280	HIS
1	4	286	HIS
1	4	291	HIS
1	4	297	ASN
1	4	305	ASN

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Mol	Chain	Res	Type
1	4	331	HIS
1	4	342	HIS
1	4	390	HIS
1	4	413	HIS
1	4	430	GLN
1	4	433	HIS
1	4	448	GLN
1	4	463	HIS
1	4	470	HIS
1	4	503	ASN
1	5	44	ASN
1	5	51	HIS
1	5	60	HIS
1	5	66	HIS
1	5	103	HIS
1	5	105	GLN
1	5	129	GLN
1	5	148	ASN
1	5	157	GLN
1	5	280	HIS
1	5	286	HIS
1	5	291	HIS
1	5	297	ASN
1	5	331	HIS
1	5	342	HIS
1	5	390	HIS
1	5	413	HIS
1	5	430	GLN
1	5	448	GLN
1	5	463	HIS
1	5	470	HIS
1	6	44	ASN
1	6	51	HIS
1	6	60	HIS
1	6	66	HIS
1	6	103	HIS
1	6	105	GLN
1	6	129	GLN
1	6	148	ASN
1	6	157	GLN
1	6	280	HIS
1	6	286	HIS

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Mol	Chain	Res	Type
1	6	291	HIS
1	6	297	ASN
1	6	331	HIS
1	6	342	HIS
1	6	390	HIS
1	6	413	HIS
1	6	430	GLN
1	6	433	HIS
1	6	448	GLN
1	6	463	HIS
1	6	470	HIS
1	7	44	ASN
1	7	51	HIS
1	7	60	HIS
1	7	66	HIS
1	7	103	HIS
1	7	105	GLN
1	7	129	GLN
1	7	148	ASN
1	7	157	GLN
1	7	280	HIS
1	7	286	HIS
1	7	291	HIS
1	7	297	ASN
1	7	305	ASN
1	7	331	HIS
1	7	342	HIS
1	7	390	HIS
1	7	413	HIS
1	7	430	GLN
1	7	433	HIS
1	7	448	GLN
1	7	463	HIS
1	7	470	HIS
1	7	503	ASN
1	8	44	ASN
1	8	51	HIS
1	8	60	HIS
1	8	66	HIS
1	8	103	HIS
1	8	105	GLN
1	8	129	GLN

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Mol	Chain	Res	Type
1	8	148	ASN
1	8	157	GLN
1	8	280	HIS
1	8	286	HIS
1	8	291	HIS
1	8	297	ASN
1	8	305	ASN
1	8	331	HIS
1	8	342	HIS
1	8	390	HIS
1	8	413	HIS
1	8	430	GLN
1	8	433	HIS
1	8	448	GLN
1	8	463	HIS
1	8	470	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

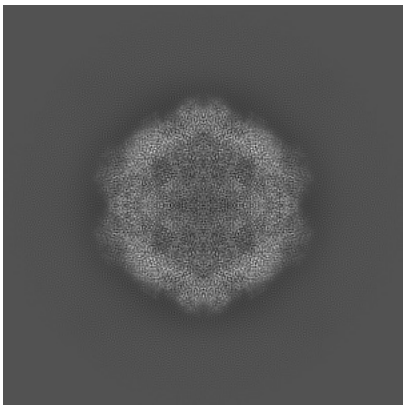
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-45955. These allow visual inspection of the internal detail of the map and identification of artifacts.

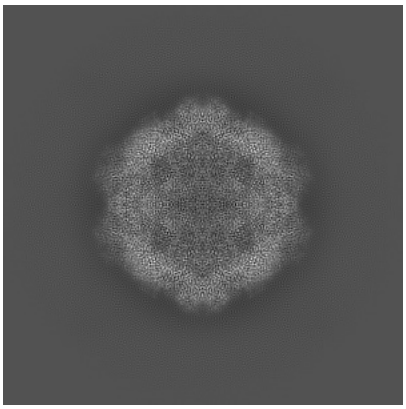
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

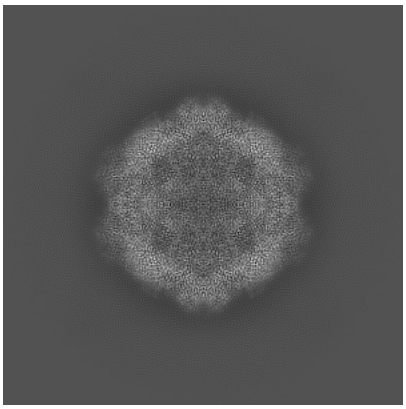
6.1.1 Primary map



X

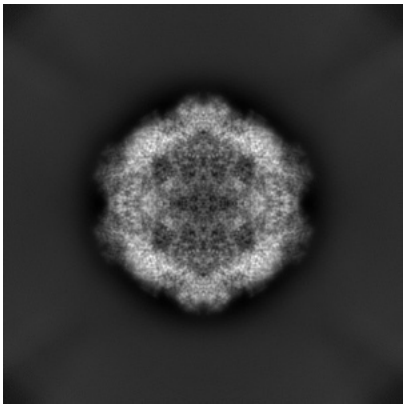


Y

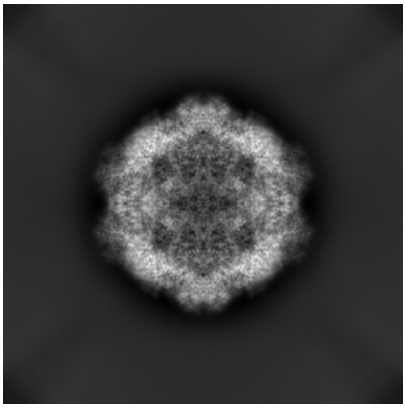


Z

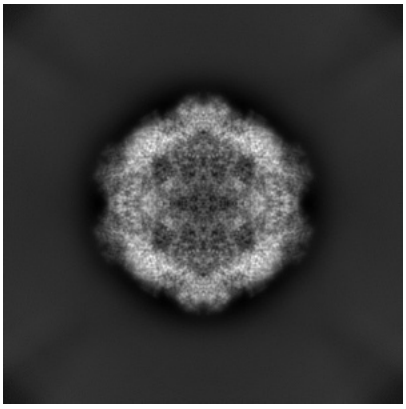
6.1.2 Raw map



X



Y

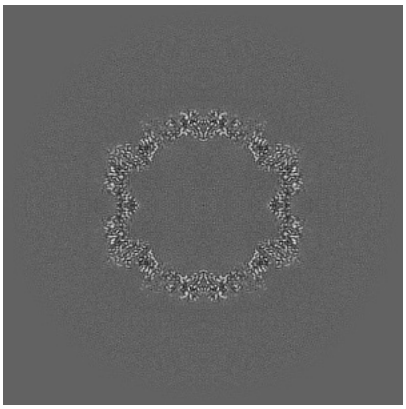


Z

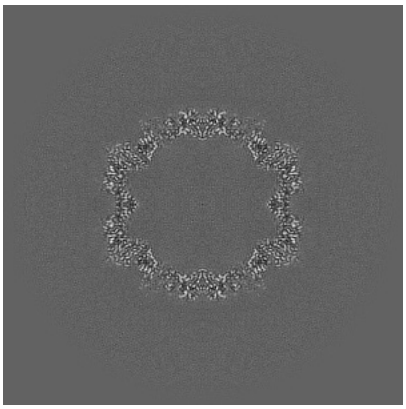
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

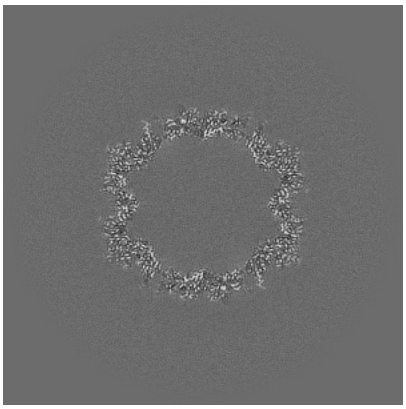
6.2.1 Primary map



X Index: 235

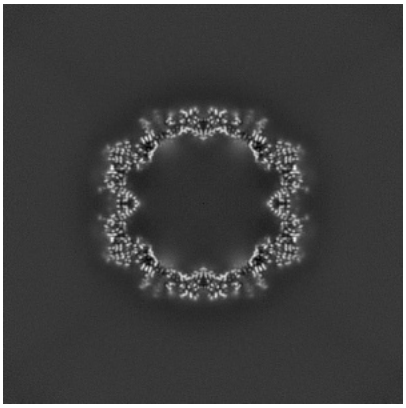


Y Index: 235

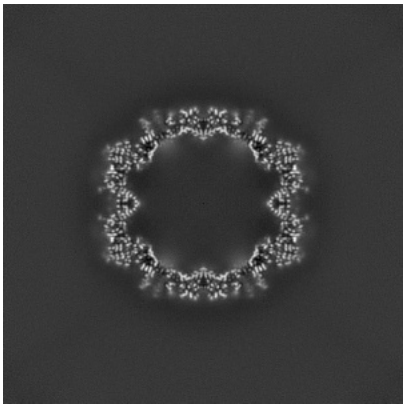


Z Index: 235

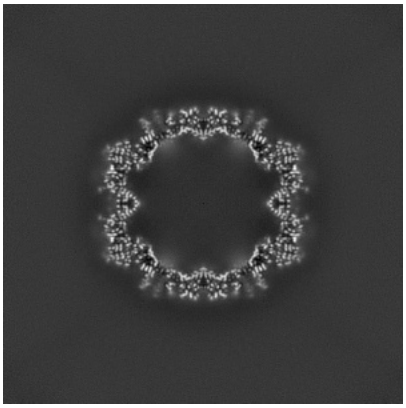
6.2.2 Raw map



X Index: 235



Y Index: 235

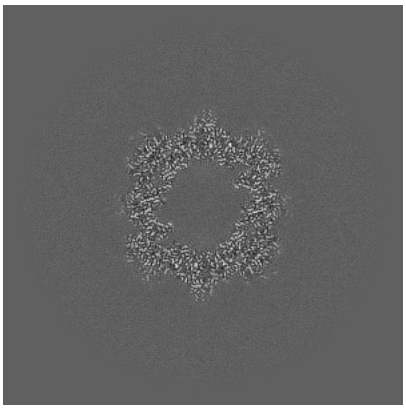


Z Index: 235

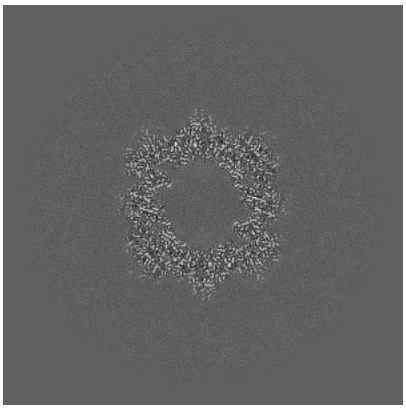
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

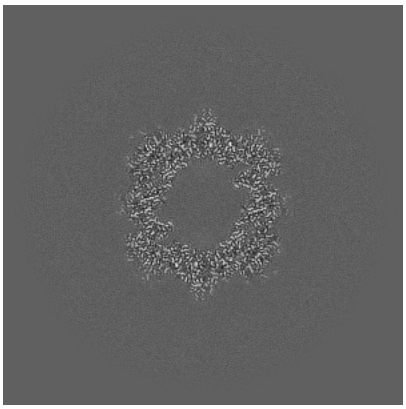
6.3.1 Primary map



X Index: 170

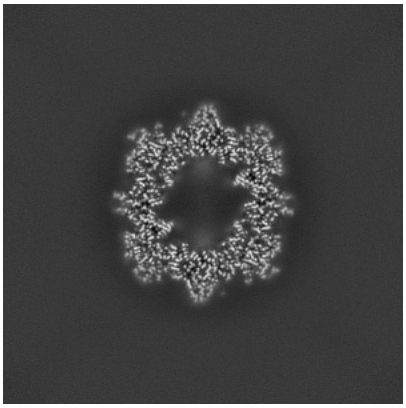


Y Index: 300

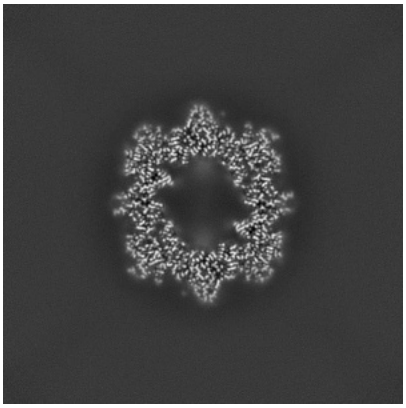


Z Index: 169

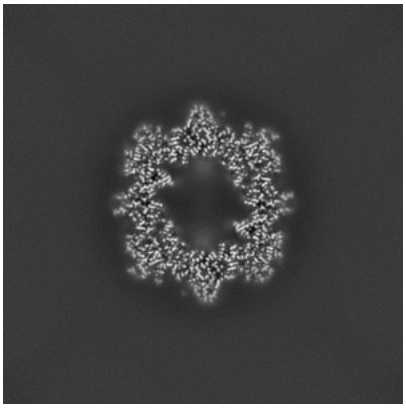
6.3.2 Raw map



X Index: 298



Y Index: 172

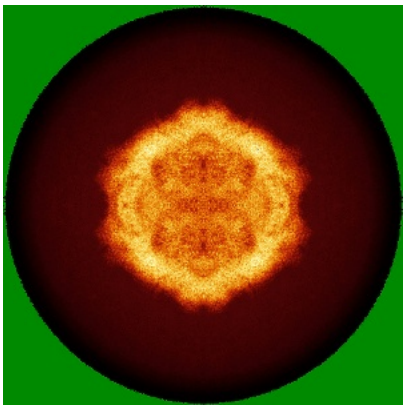


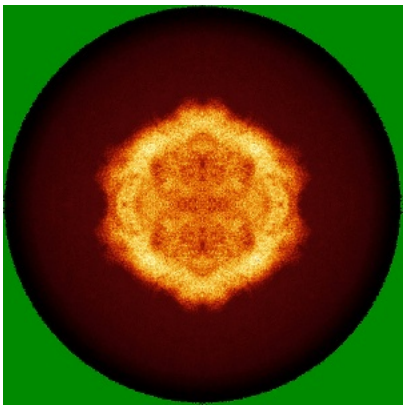
Z Index: 172

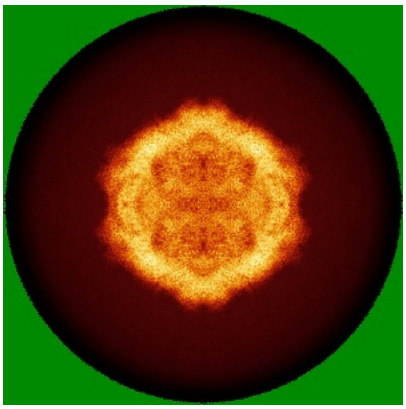
The images above show the largest variance slices of the map in three orthogonal directions.

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

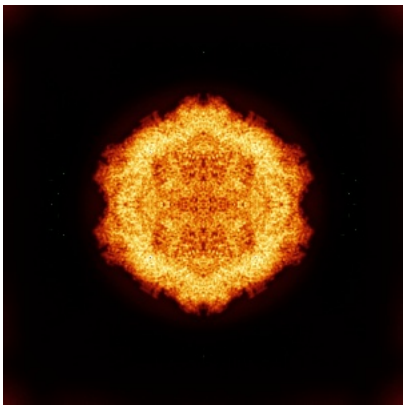
6.4.1 Primary map

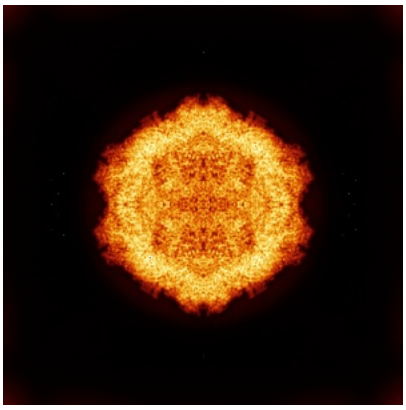

X

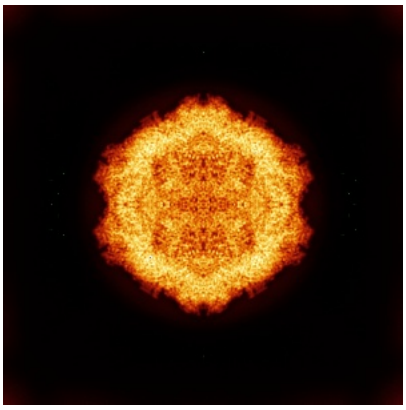

Y


Z

6.4.2 Raw map


X


Y


Z

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

6.5 Orthogonal surface views (i)

This section was not generated.

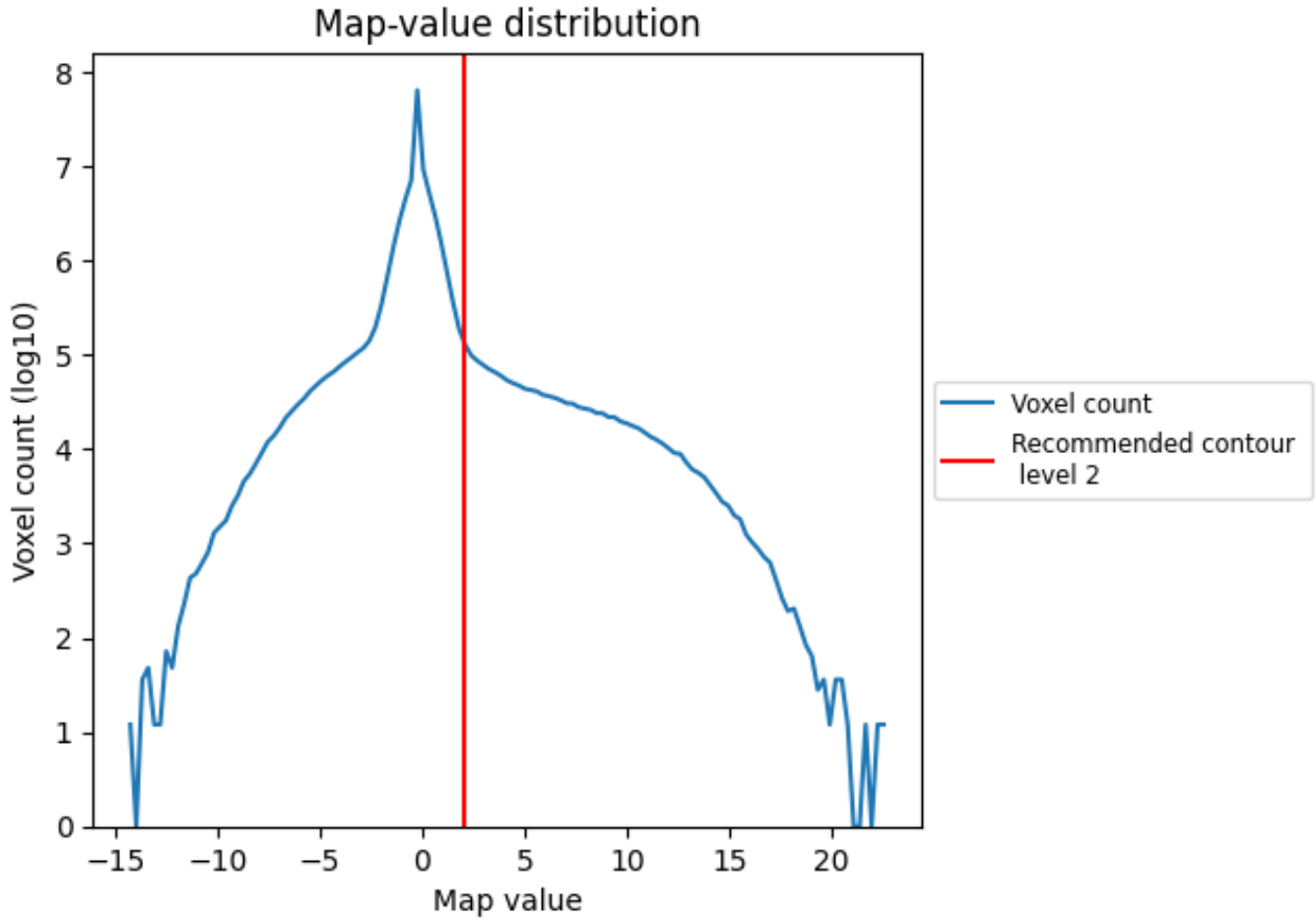
6.6 Mask visualisation (i)

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

7 Map analysis

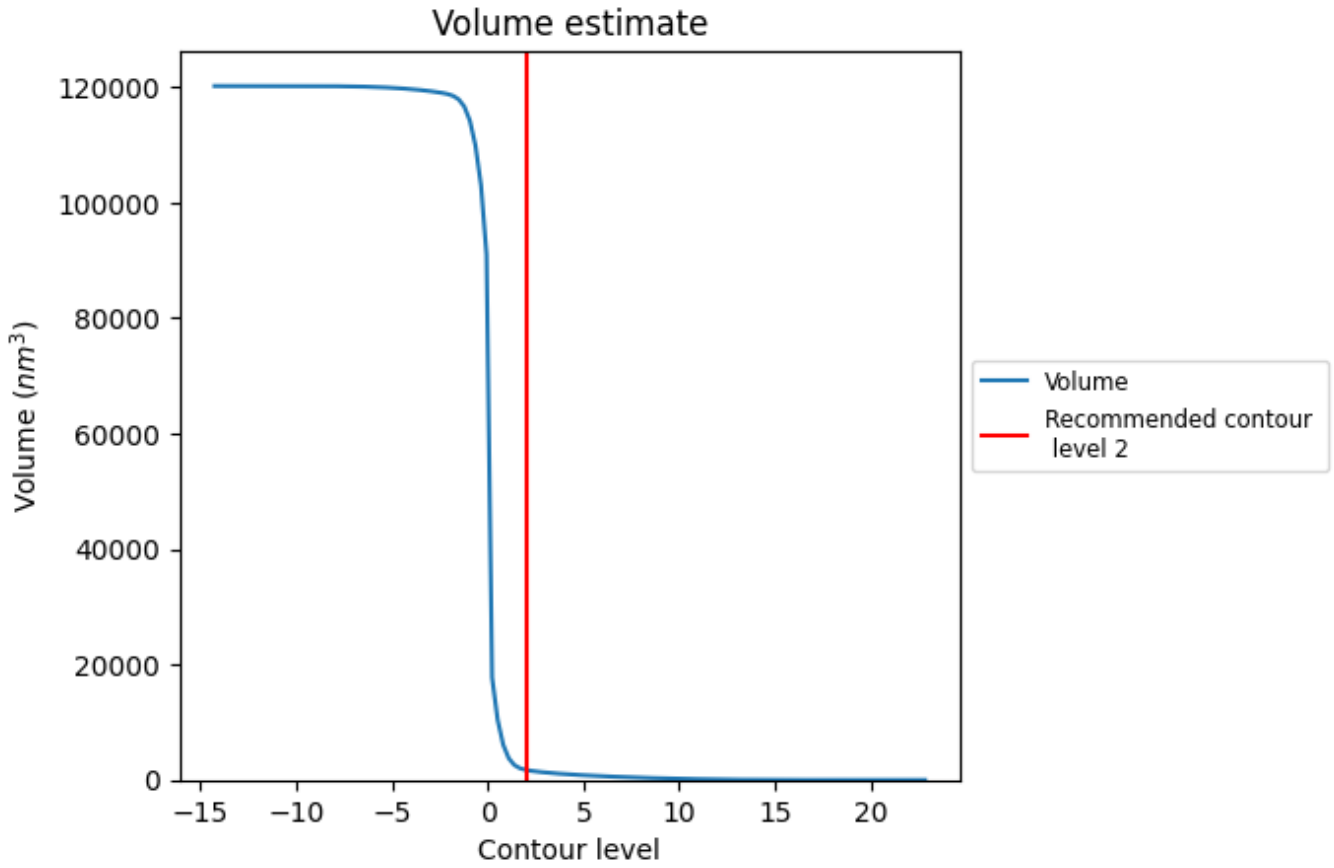
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

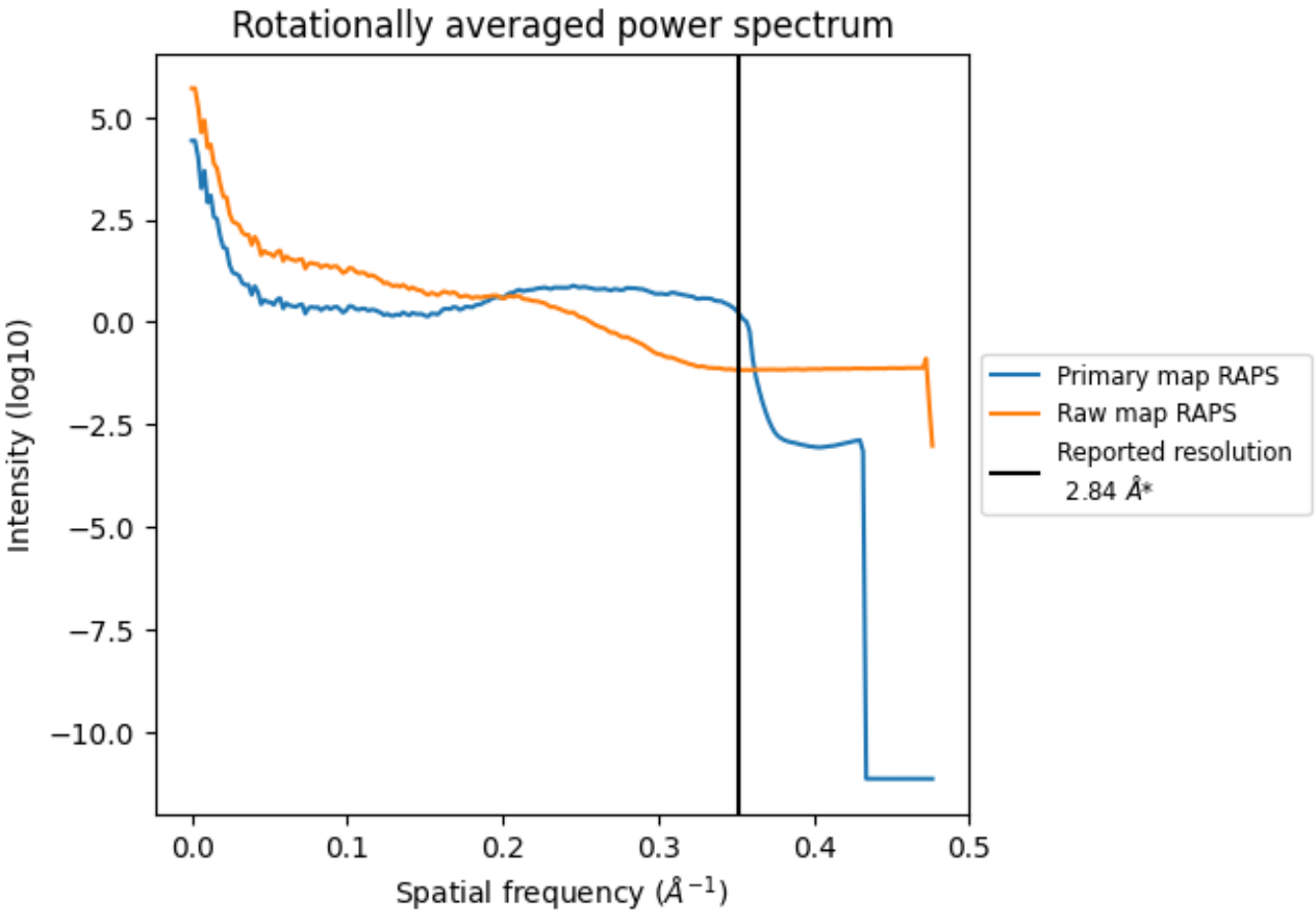
7.2 Volume estimate



The volume at the recommended contour level is 1736 nm^3; this corresponds to an approximate mass of 1569 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)

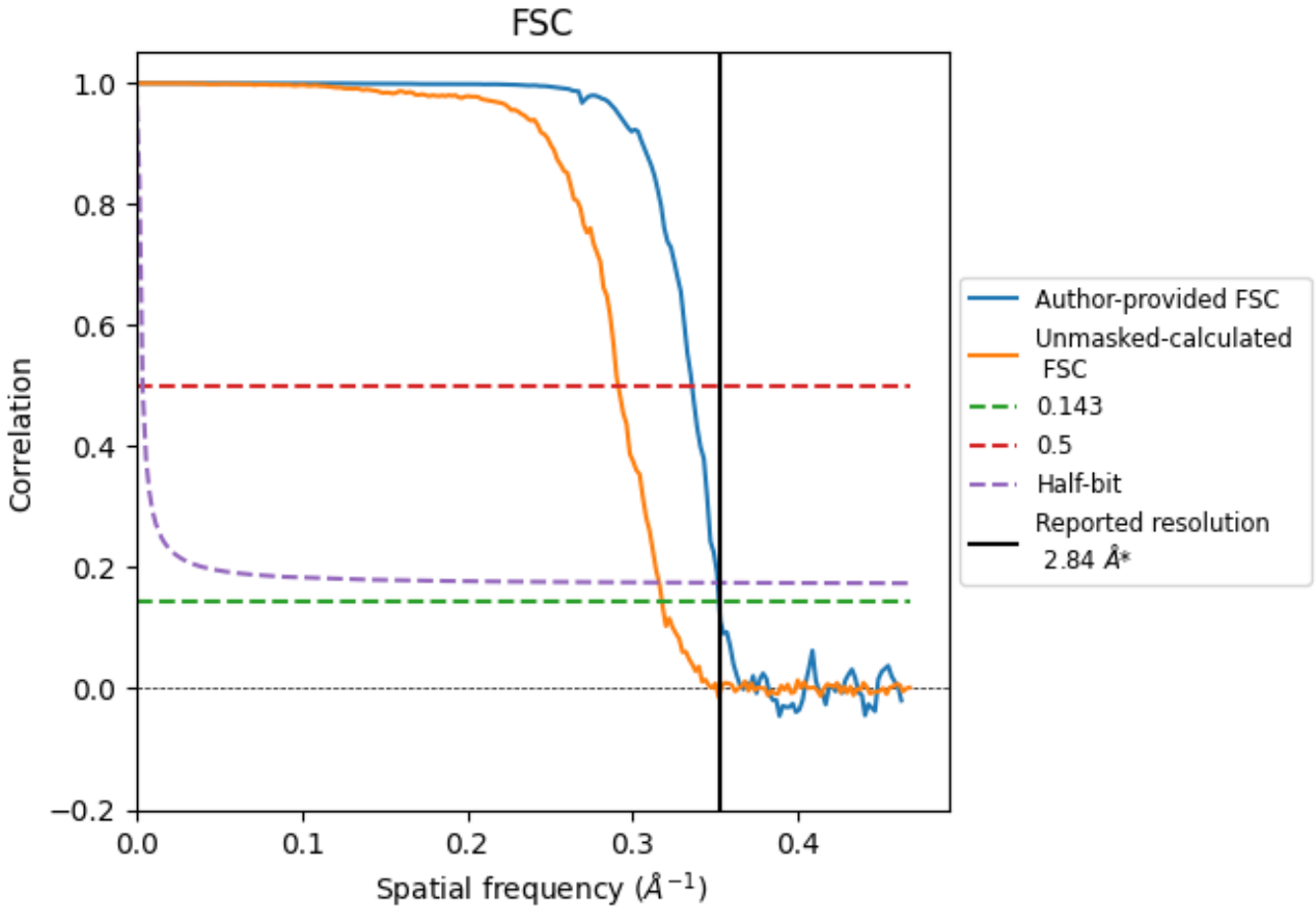


*Reported resolution corresponds to spatial frequency of 0.352 $Å^{-1}$

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.352 Å^{-1}

8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.84	-	-
Author-provided FSC curve	2.84	2.98	2.85
Unmasked-calculated*	3.15	3.43	3.17

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.15 differs from the reported value 2.84 by more than 10 %

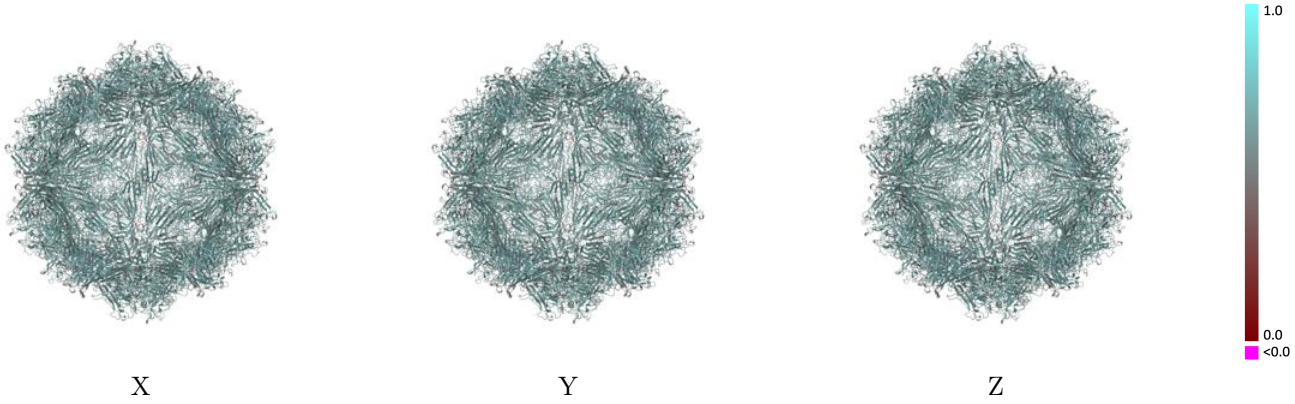
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-45955 and PDB model 9CV0. Per-residue inclusion information can be found in section 3 on page 11.

9.1 Map-model overlay

This section was not generated.

9.2 Q-score mapped to coordinate model

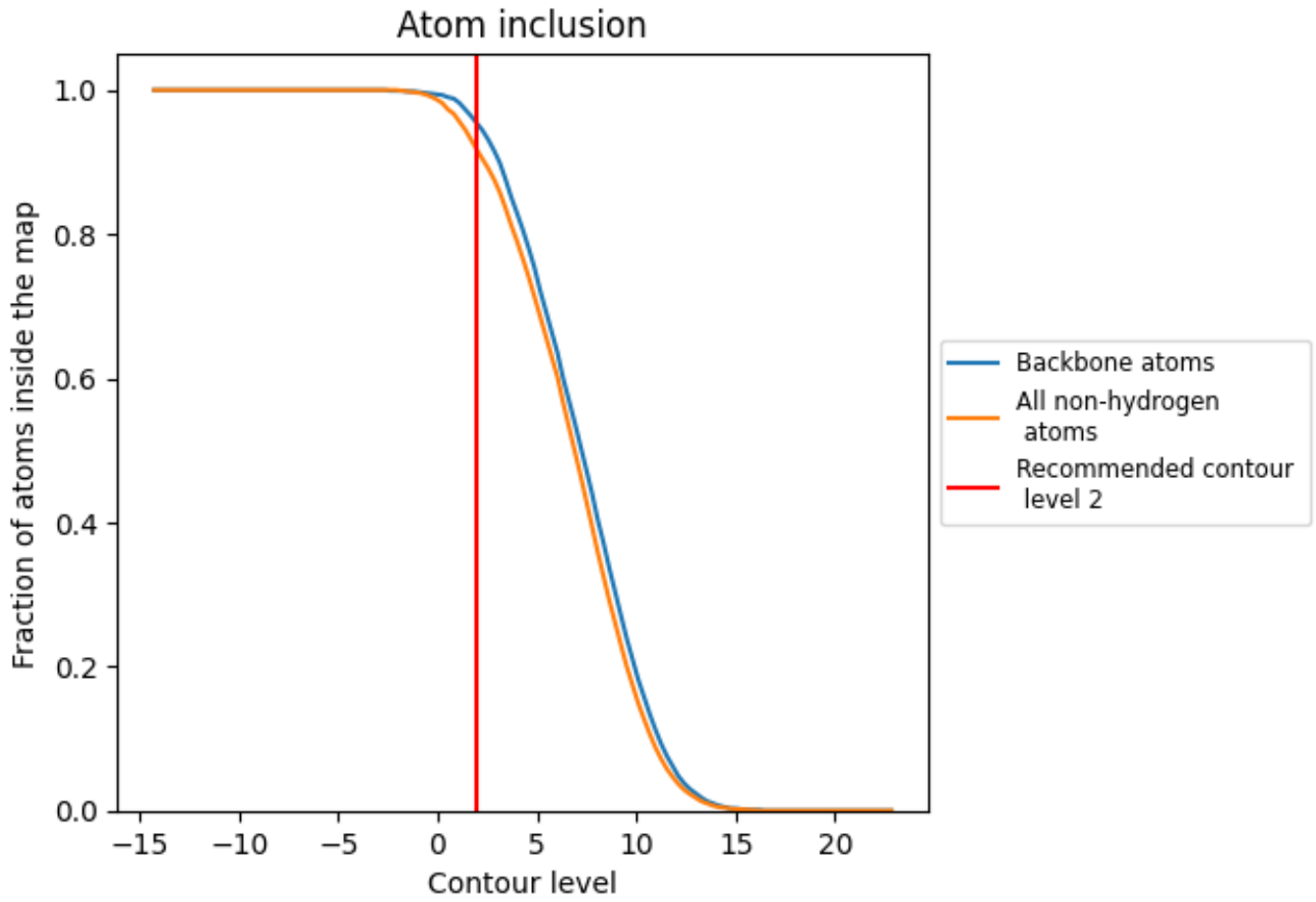


The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 95% of all backbone atoms, 92% 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 (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9160	0.6170
1	0.9160	0.6180
2	0.9160	0.6170
3	0.9160	0.6180
4	0.9130	0.6150
5	0.9170	0.6160
6	0.9170	0.6160
7	0.9170	0.6150
8	0.9160	0.6170
A	0.9160	0.6170
B	0.9160	0.6170
C	0.9150	0.6150
D	0.9170	0.6170
E	0.9160	0.6180
F	0.9160	0.6170
G	0.9160	0.6160
H	0.9170	0.6160
I	0.9130	0.6150
J	0.9160	0.6160
K	0.9130	0.6160
L	0.9160	0.6170
M	0.9160	0.6170
N	0.9170	0.6170
O	0.9160	0.6170
P	0.9170	0.6170
Q	0.9130	0.6150
R	0.9160	0.6170
S	0.9160	0.6180
T	0.9130	0.6150
U	0.9160	0.6180
V	0.9130	0.6150
W	0.9170	0.6160
X	0.9160	0.6170
Y	0.9170	0.6170
Z	0.9160	0.6170

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Chain	Atom inclusion	Q-score
a	0.9160	0.6170
b	0.9160	0.6180
c	0.9160	0.6170
d	0.9160	0.6180
e	0.9160	0.6170
f	0.9160	0.6170
g	0.9130	0.6160
h	0.9160	0.6170
i	0.9170	0.6160
j	0.9170	0.6150
k	0.9170	0.6170
l	0.9160	0.6170
m	0.9130	0.6160
n	0.9160	0.6180
o	0.9160	0.6170
p	0.9130	0.6150
q	0.9160	0.6160
r	0.9160	0.6180
s	0.9160	0.6170
t	0.9160	0.6160
u	0.9130	0.6150
v	0.9160	0.6170
w	0.9160	0.6170
x	0.9130	0.6140
y	0.9160	0.6170
z	0.9160	0.6180