Full wwPDB EM Validation Report

May 26, 2025 – 09:43 AM EDT

PDB ID	:	5IPK / pdb_00005ipk
EMDB ID	:	EMD-8100
Title	:	Structure of the R432A variant of Adeno-associated virus type 2 VLP
Authors	:	Drouin, L.M.; Lins, B.; Janssen, M.E.; Bennet, A.; Chipman, P.; McKenna, R.; Chen, W.; Muzyczka, N.; Cardone, G.; Baker, T.S.; Agbandje-McKenna, M.
Deposited on	:	2016-03-09
Resolution	:	3.70 Å(reported)

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

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

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

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

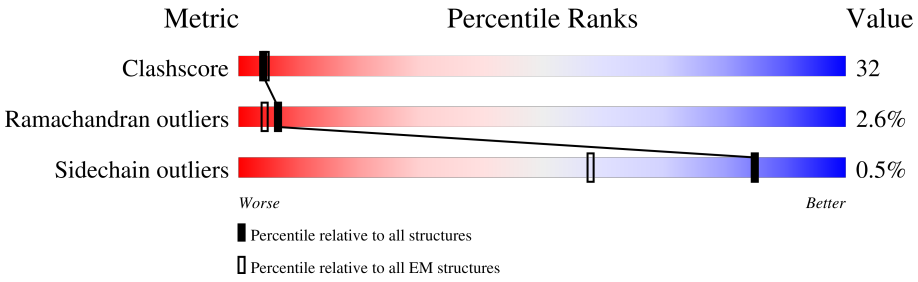
EMDB validation analysis	:	0.0.1.dev118
MolProbity	:	4-5-2 with Phenix2.0rc1
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline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

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.70 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	1	735	16% 29% 36% • 32%
1	2	735	16% 30% 35% • 32%
1	3	735	15% 30% 36% • 32%
1	4	735	16% 30% 36% • 32%
1	5	735	16% 30% 36% • 32%
1	6	735	16% 30% 36% • 32%
1	7	735	15% 30% 36% • 32%
1	8	735	16% 30% 36% • 32%

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Mol	Chain	Length	Quality of chain
1	A	735	16% 30% 36% 32%
1	B	735	16% 30% 36% 32%
1	C	735	16% 30% 36% 32%
1	D	735	16% 29% 36% 32%
1	E	735	15% 29% 36% 32%
1	F	735	16% 30% 36% 32%
1	G	735	16% 30% 36% 32%
1	H	735	16% 29% 36% 32%
1	I	735	16% 29% 36% 32%
1	J	735	15% 30% 36% 32%
1	K	735	16% 29% 36% 32%
1	L	735	16% 30% 36% 32%
1	M	735	15% 30% 36% 32%
1	N	735	16% 29% 36% 32%
1	O	735	15% 30% 36% 32%
1	P	735	16% 30% 36% 32%
1	Q	735	16% 30% 36% 32%
1	R	735	16% 30% 36% 32%
1	S	735	16% 30% 36% 32%
1	T	735	16% 30% 36% 32%
1	U	735	15% 30% 36% 32%
1	V	735	16% 30% 36% 32%
1	W	735	15% 30% 36% 32%
1	X	735	16% 30% 36% 32%
1	Y	735	15% 30% 36% 32%

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Mol	Chain	Length	Quality of chain
1	Z	735	16% 29% 36% 32%
1	a	735	16% 30% 36% 32%
1	b	735	16% 30% 36% 32%
1	c	735	16% 29% 37% 32%
1	d	735	16% 30% 35% 32%
1	e	735	16% 30% 35% 32%
1	f	735	15% 30% 36% 32%
1	g	735	16% 30% 36% 32%
1	h	735	15% 30% 36% 32%
1	i	735	16% 30% 36% 32%
1	j	735	15% 30% 36% 32%
1	k	735	15% 30% 36% 32%
1	l	735	16% 30% 36% 32%
1	m	735	16% 29% 36% 32%
1	n	735	16% 30% 36% 32%
1	o	735	16% 30% 35% 32%
1	p	735	15% 29% 36% 32%
1	q	735	15% 30% 36% 32%
1	r	735	16% 30% 36% 32%
1	s	735	16% 30% 36% 32%
1	t	735	16% 30% 36% 32%
1	u	735	16% 30% 36% 32%
1	v	735	15% 30% 36% 32%
1	w	735	16% 30% 35% 32%
1	x	735	16% 29% 36% 32%

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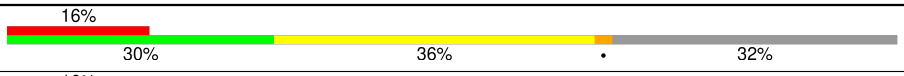
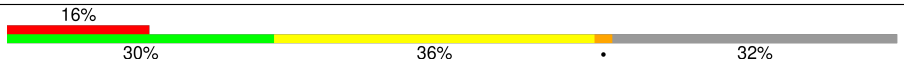
Mol	Chain	Length	Quality of chain
1	y	735	
1	z	735	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 240540 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 Capsid protein VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	B	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	C	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	D	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	E	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	F	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	G	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	H	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	I	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	J	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	K	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	L	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	M	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	N	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	O	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	P	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	Q	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	S	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	T	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	U	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	V	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	W	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	X	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	Y	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	Z	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	a	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	b	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	c	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	d	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	e	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	f	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	g	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	h	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	i	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	j	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	k	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	l	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	n	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	o	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	p	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	q	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	r	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	s	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	t	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	u	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	v	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	w	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	x	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	y	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	z	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	1	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	2	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	3	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	4	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	5	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	6	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		
1	7	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	500	Total	C	N	O	S	0	0
			4009	2528	697	773	11		

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	432	ALA	ARG	engineered mutation	UNP P03135
B	432	ALA	ARG	engineered mutation	UNP P03135
C	432	ALA	ARG	engineered mutation	UNP P03135
D	432	ALA	ARG	engineered mutation	UNP P03135
E	432	ALA	ARG	engineered mutation	UNP P03135
F	432	ALA	ARG	engineered mutation	UNP P03135
G	432	ALA	ARG	engineered mutation	UNP P03135
H	432	ALA	ARG	engineered mutation	UNP P03135
I	432	ALA	ARG	engineered mutation	UNP P03135
J	432	ALA	ARG	engineered mutation	UNP P03135
K	432	ALA	ARG	engineered mutation	UNP P03135
L	432	ALA	ARG	engineered mutation	UNP P03135
M	432	ALA	ARG	engineered mutation	UNP P03135
N	432	ALA	ARG	engineered mutation	UNP P03135
O	432	ALA	ARG	engineered mutation	UNP P03135
P	432	ALA	ARG	engineered mutation	UNP P03135
Q	432	ALA	ARG	engineered mutation	UNP P03135
R	432	ALA	ARG	engineered mutation	UNP P03135
S	432	ALA	ARG	engineered mutation	UNP P03135
T	432	ALA	ARG	engineered mutation	UNP P03135
U	432	ALA	ARG	engineered mutation	UNP P03135
V	432	ALA	ARG	engineered mutation	UNP P03135
W	432	ALA	ARG	engineered mutation	UNP P03135
X	432	ALA	ARG	engineered mutation	UNP P03135
Y	432	ALA	ARG	engineered mutation	UNP P03135
Z	432	ALA	ARG	engineered mutation	UNP P03135
a	432	ALA	ARG	engineered mutation	UNP P03135
b	432	ALA	ARG	engineered mutation	UNP P03135
c	432	ALA	ARG	engineered mutation	UNP P03135
d	432	ALA	ARG	engineered mutation	UNP P03135
e	432	ALA	ARG	engineered mutation	UNP P03135
f	432	ALA	ARG	engineered mutation	UNP P03135
g	432	ALA	ARG	engineered mutation	UNP P03135
h	432	ALA	ARG	engineered mutation	UNP P03135
i	432	ALA	ARG	engineered mutation	UNP P03135
j	432	ALA	ARG	engineered mutation	UNP P03135

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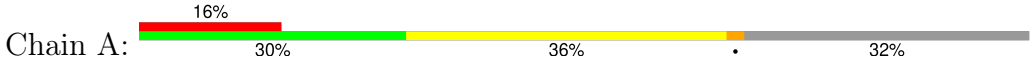
Chain	Residue	Modelled	Actual	Comment	Reference
k	432	ALA	ARG	engineered mutation	UNP P03135
l	432	ALA	ARG	engineered mutation	UNP P03135
m	432	ALA	ARG	engineered mutation	UNP P03135
n	432	ALA	ARG	engineered mutation	UNP P03135
o	432	ALA	ARG	engineered mutation	UNP P03135
p	432	ALA	ARG	engineered mutation	UNP P03135
q	432	ALA	ARG	engineered mutation	UNP P03135
r	432	ALA	ARG	engineered mutation	UNP P03135
s	432	ALA	ARG	engineered mutation	UNP P03135
t	432	ALA	ARG	engineered mutation	UNP P03135
u	432	ALA	ARG	engineered mutation	UNP P03135
v	432	ALA	ARG	engineered mutation	UNP P03135
w	432	ALA	ARG	engineered mutation	UNP P03135
x	432	ALA	ARG	engineered mutation	UNP P03135
y	432	ALA	ARG	engineered mutation	UNP P03135
z	432	ALA	ARG	engineered mutation	UNP P03135
1	432	ALA	ARG	engineered mutation	UNP P03135
2	432	ALA	ARG	engineered mutation	UNP P03135
3	432	ALA	ARG	engineered mutation	UNP P03135
4	432	ALA	ARG	engineered mutation	UNP P03135
5	432	ALA	ARG	engineered mutation	UNP P03135
6	432	ALA	ARG	engineered mutation	UNP P03135
7	432	ALA	ARG	engineered mutation	UNP P03135
8	432	ALA	ARG	engineered mutation	UNP P03135

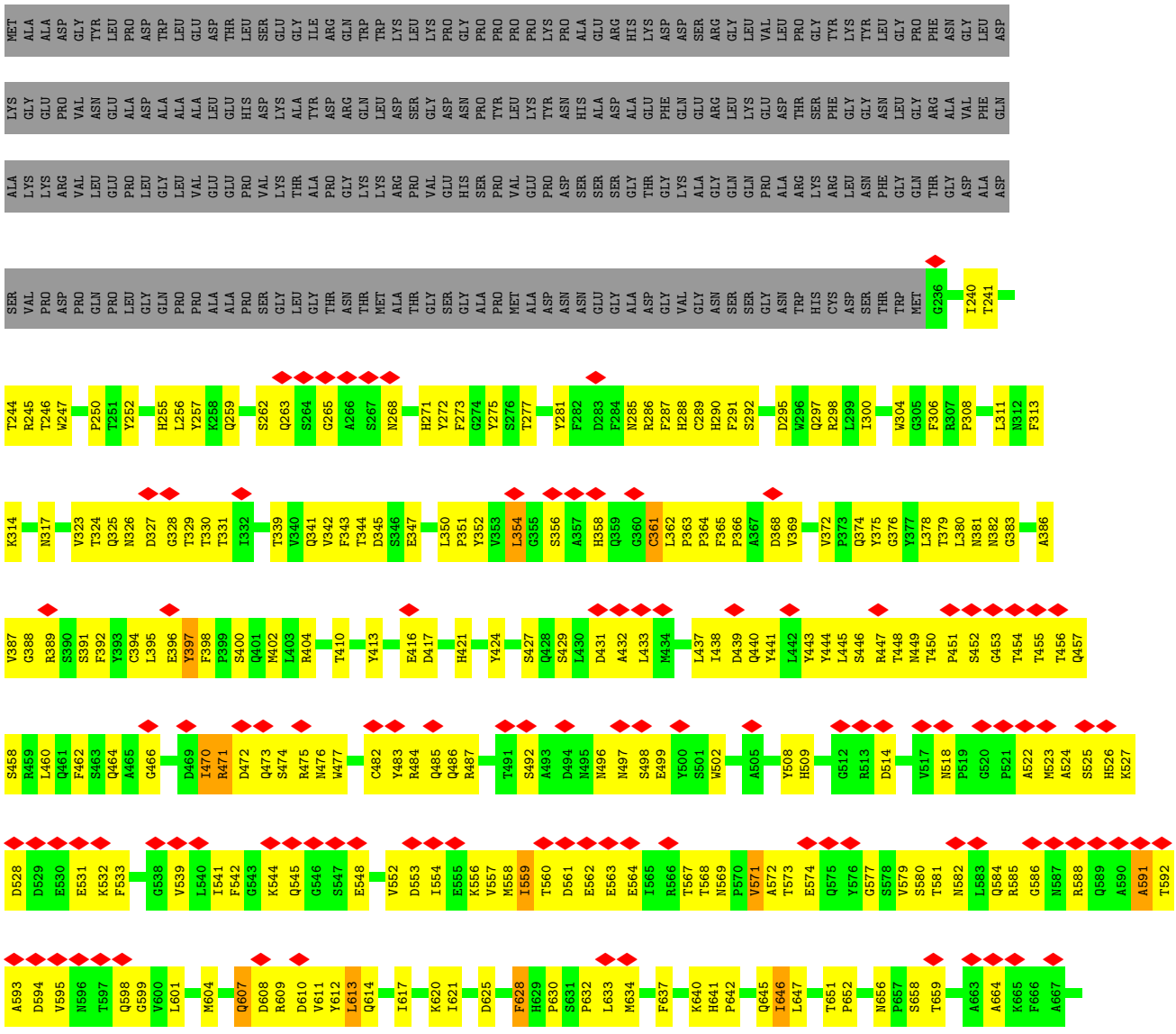
3 Residue-property plots (i)

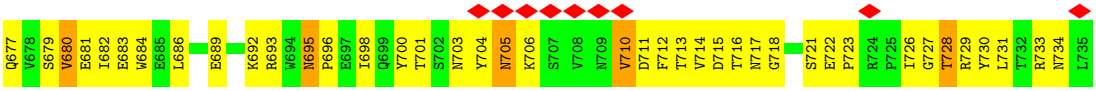
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Capsid protein VP1

Chain A:

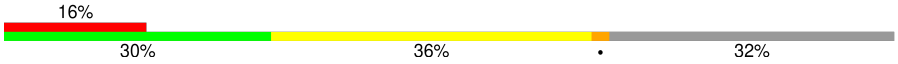


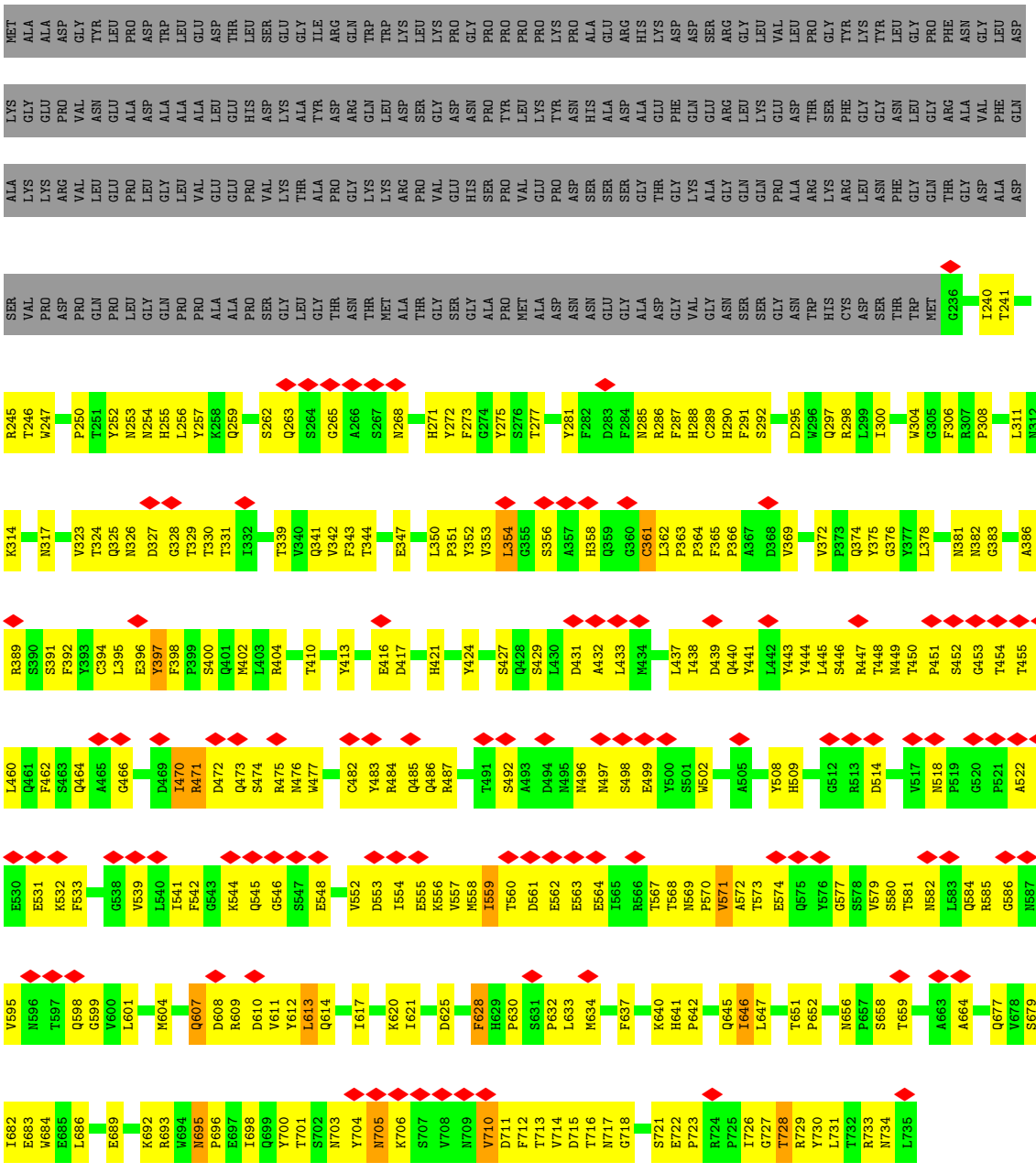




• Molecule 1: Capsid protein VP1

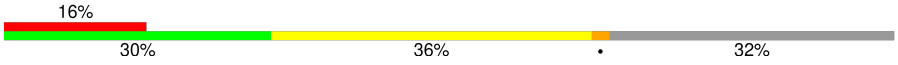
Chain B:

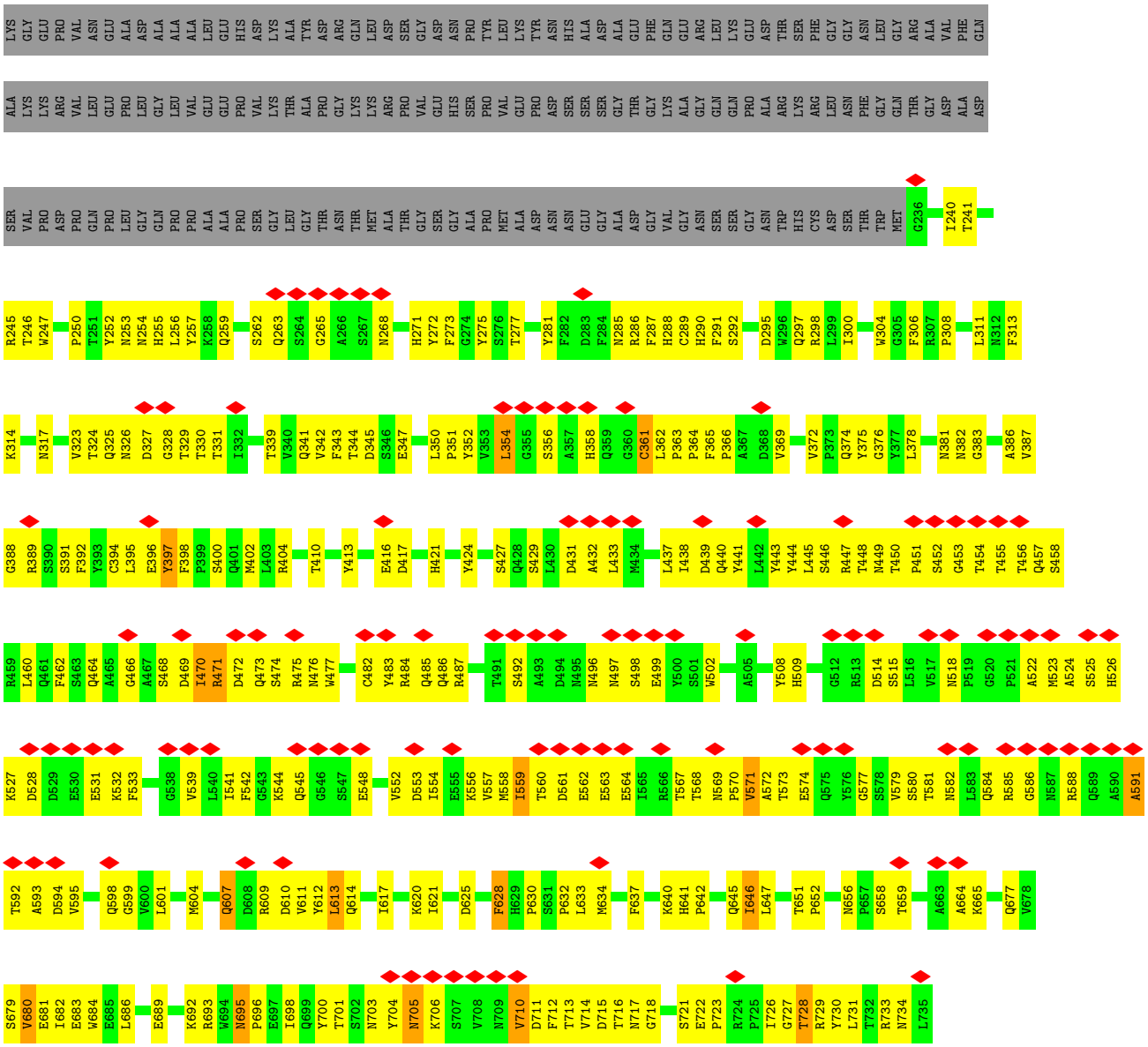




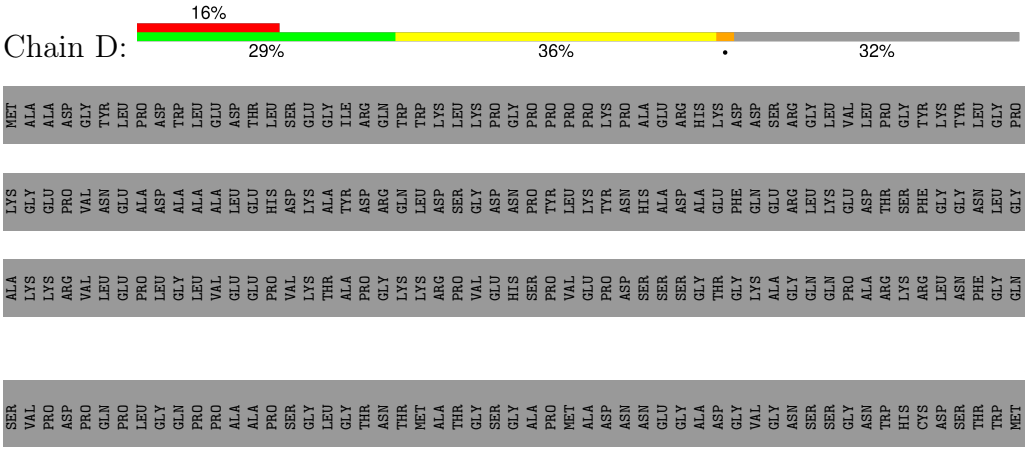
• Molecule 1: Capsid protein VP1

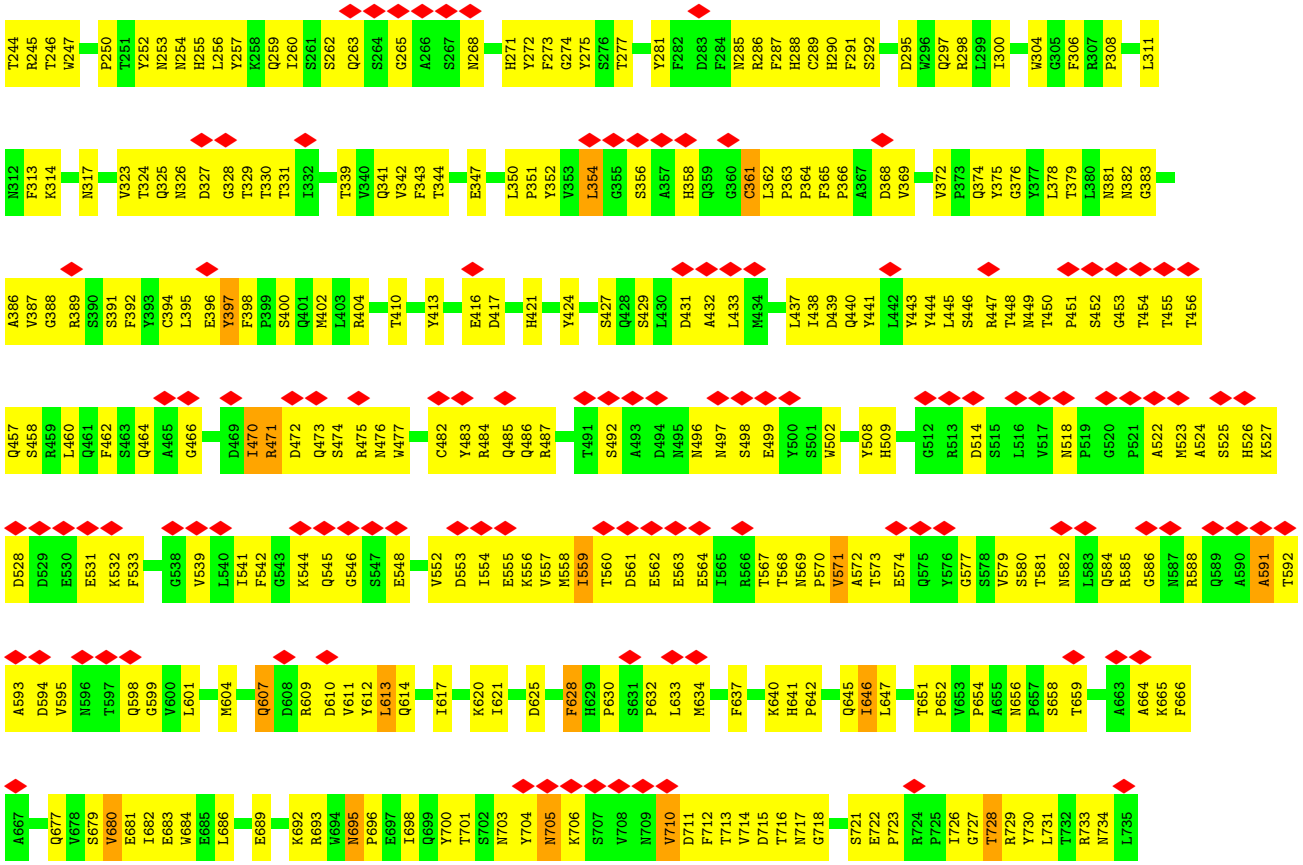
Chain C:





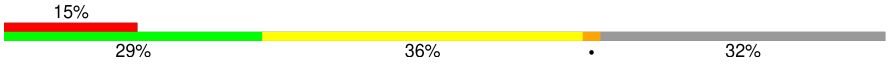
• Molecule 1: Capsid protein VP1

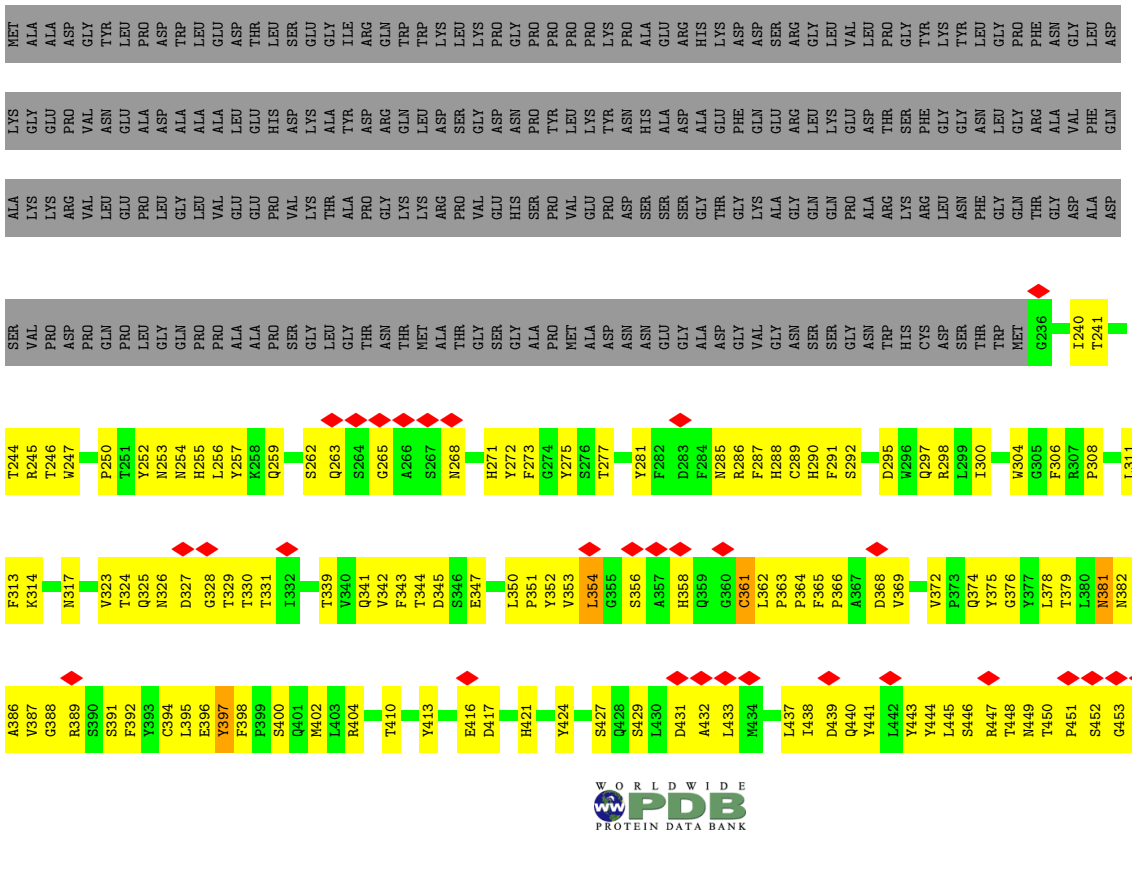


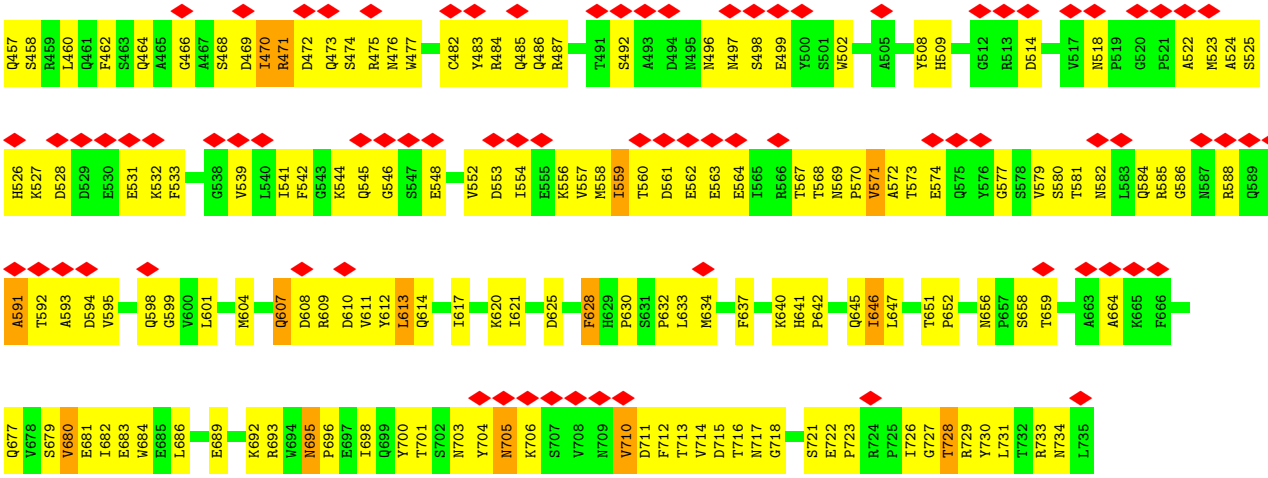


• Molecule 1: Capsid protein VP1

Chain E:

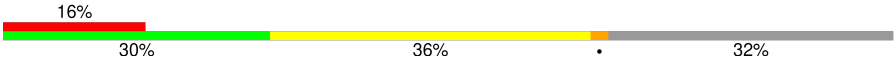


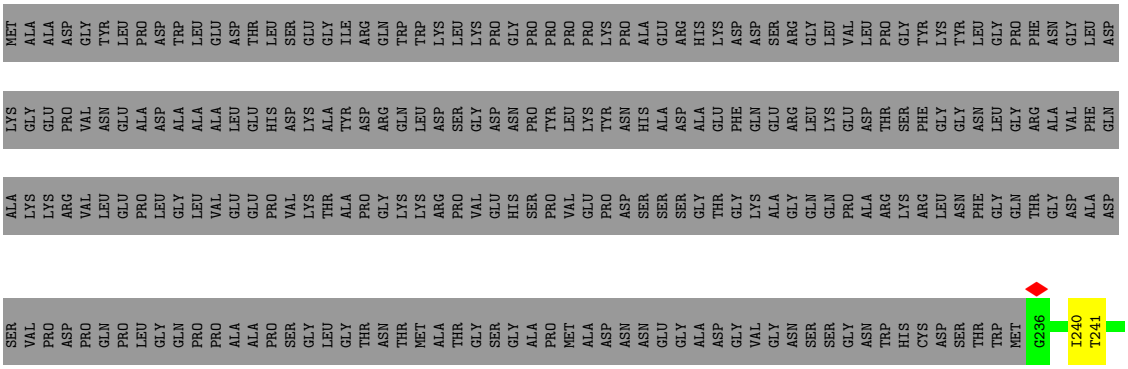


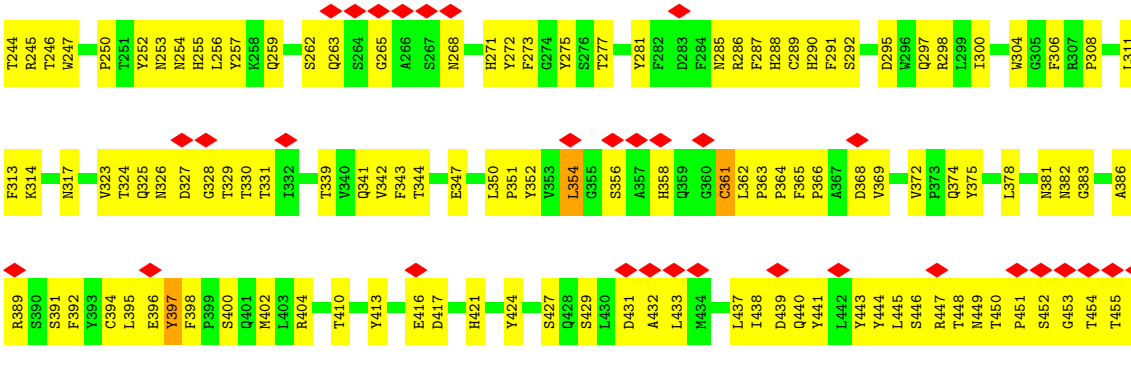


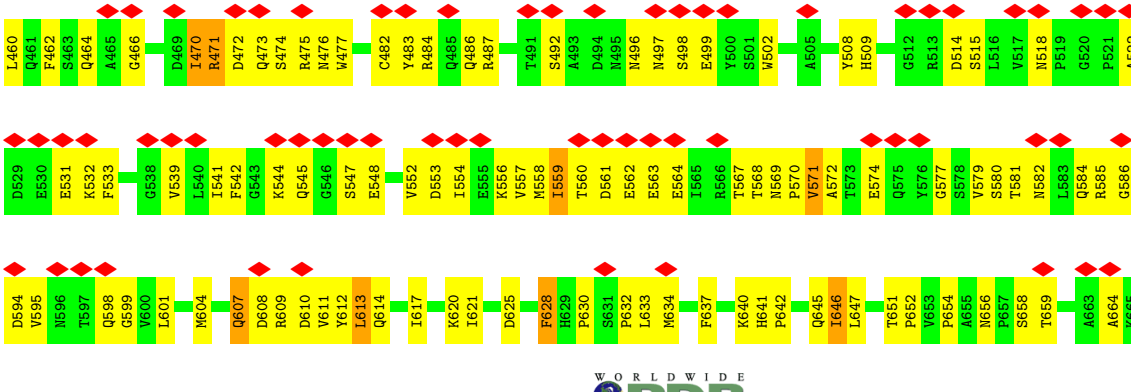
• Molecule 1: Capsid protein VP1

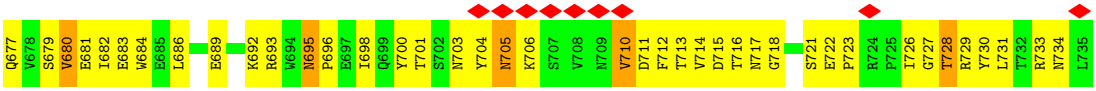
Chain F:





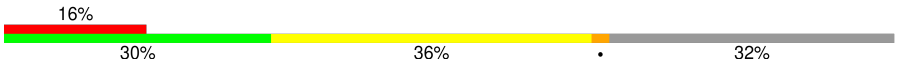


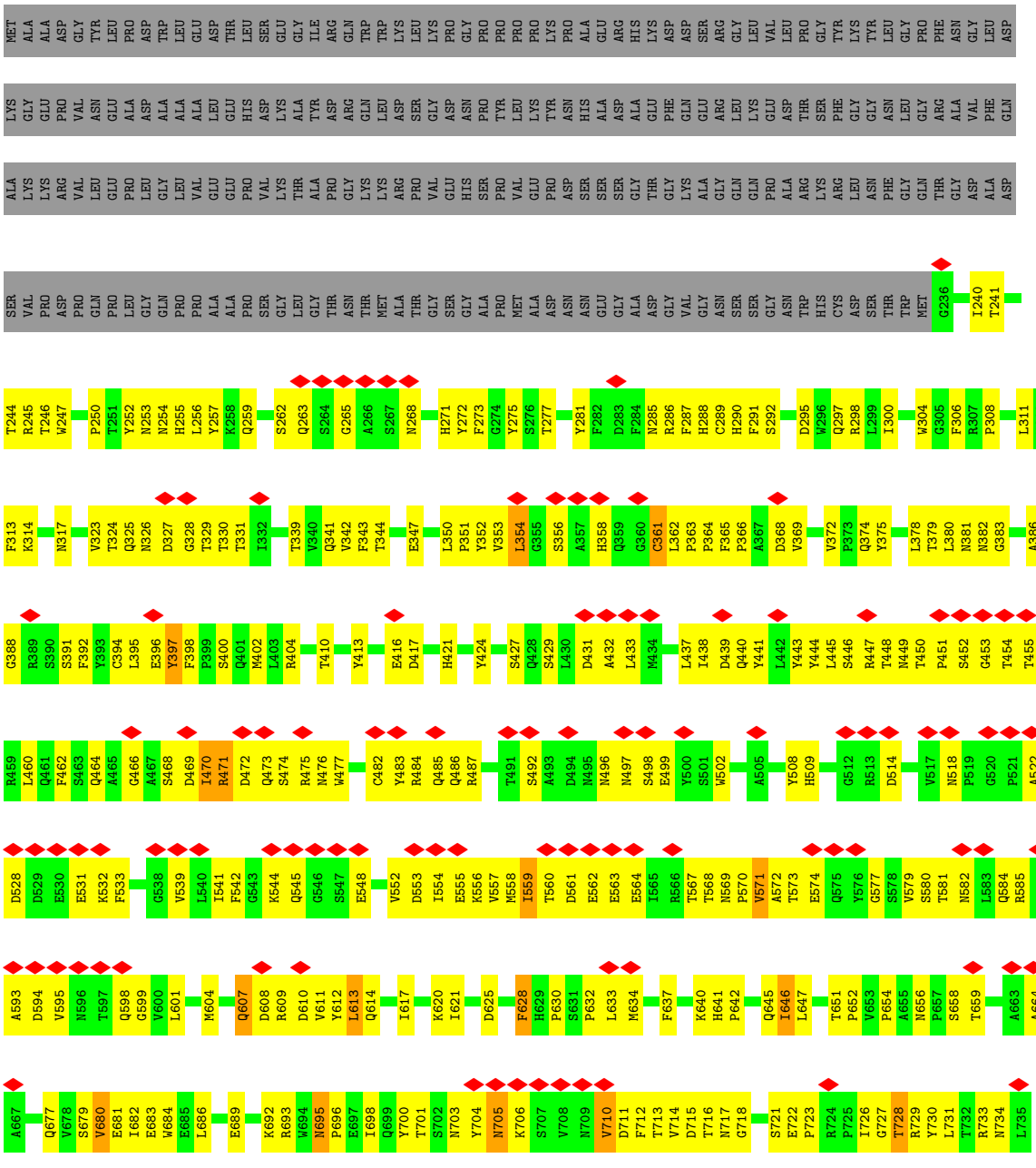




• Molecule 1: Capsid protein VP1

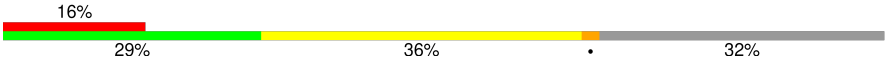
Chain G:

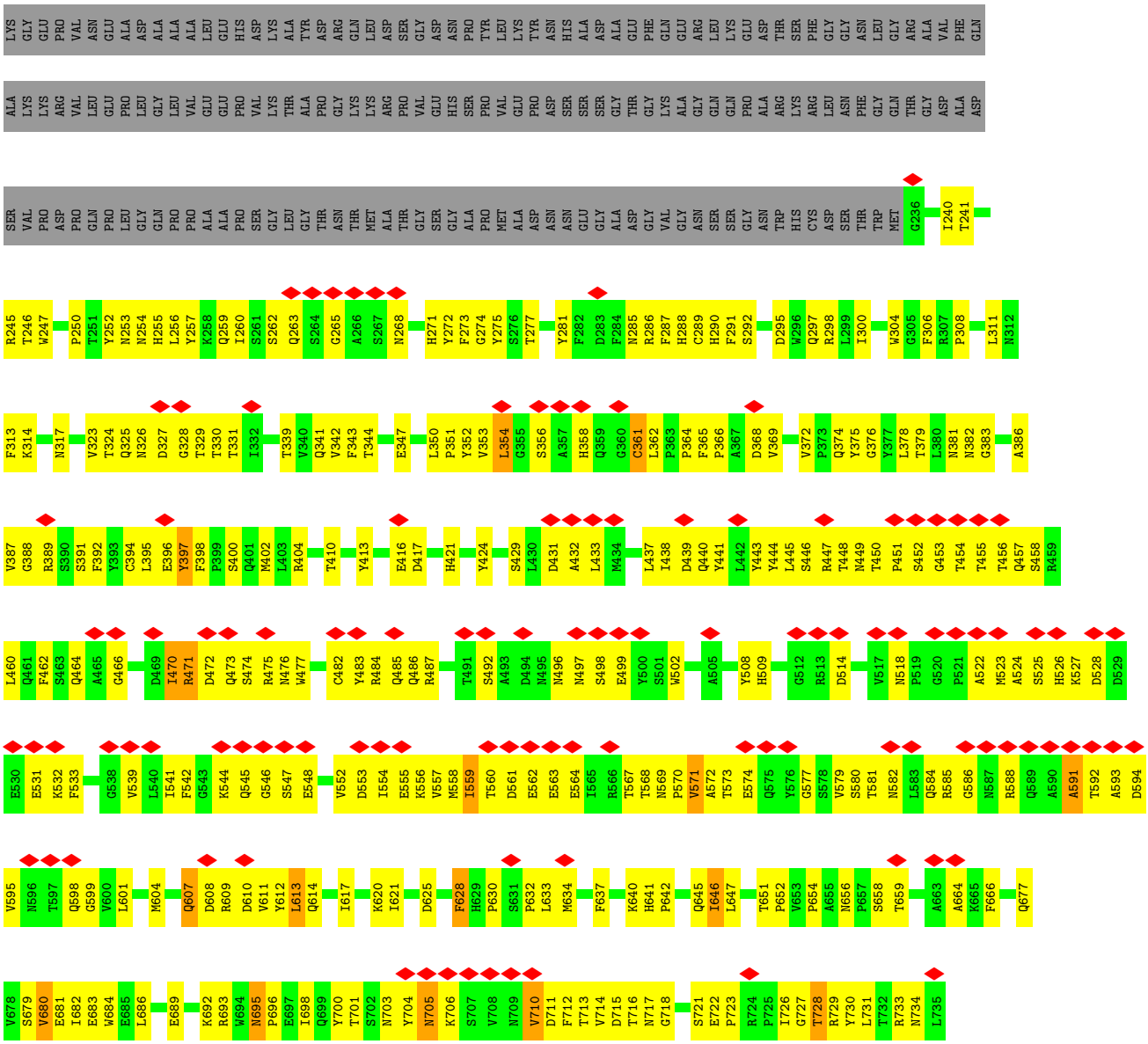




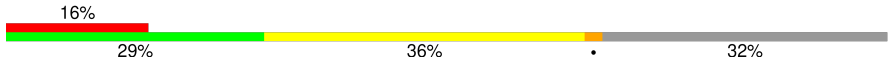
• Molecule 1: Capsid protein VP1

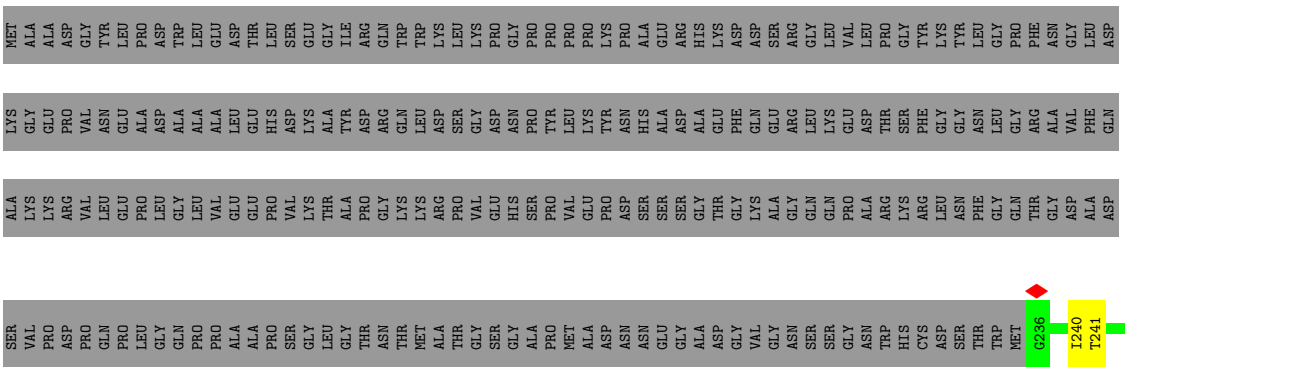
Chain H:

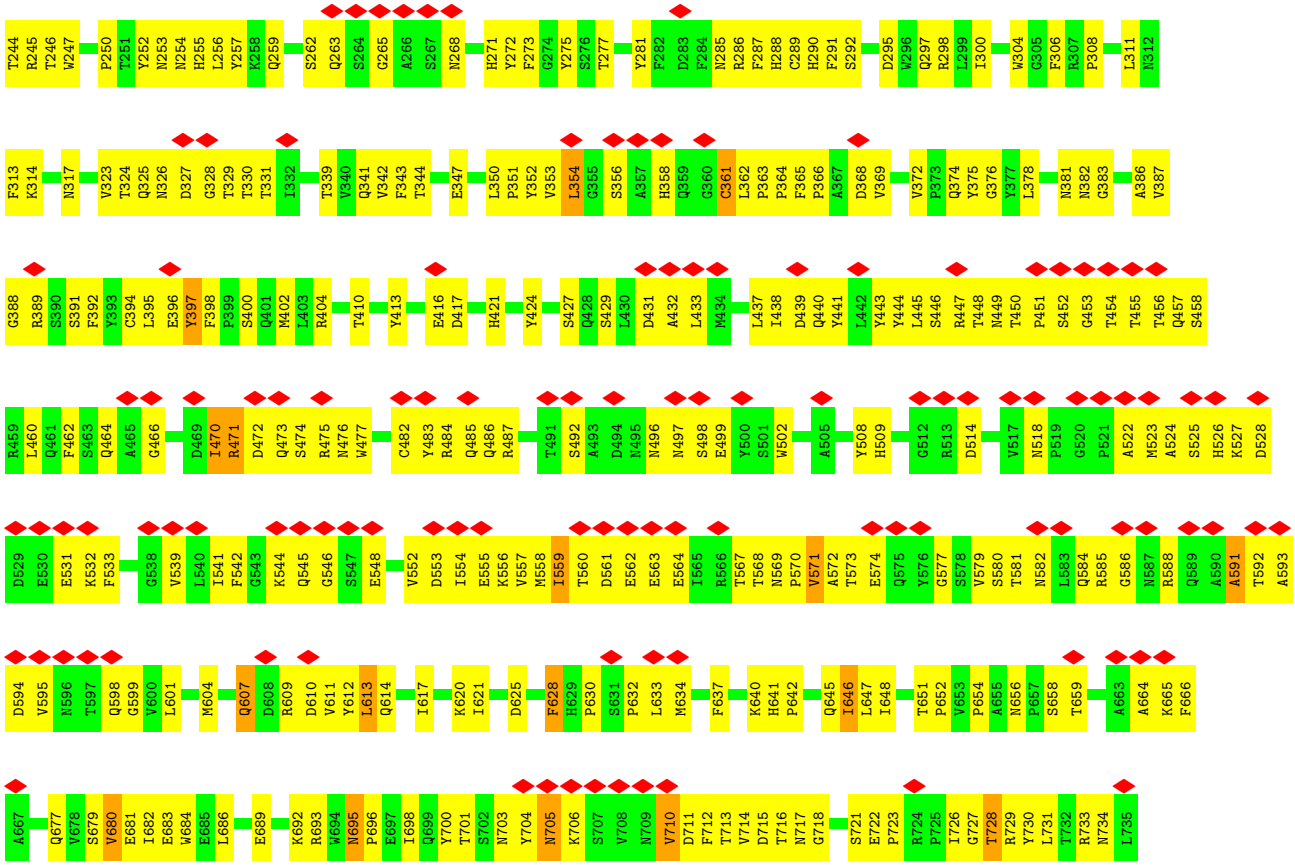




• Molecule 1: Capsid protein VP1

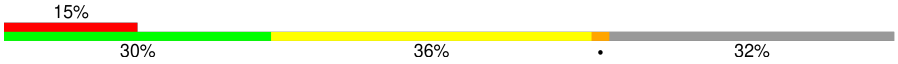


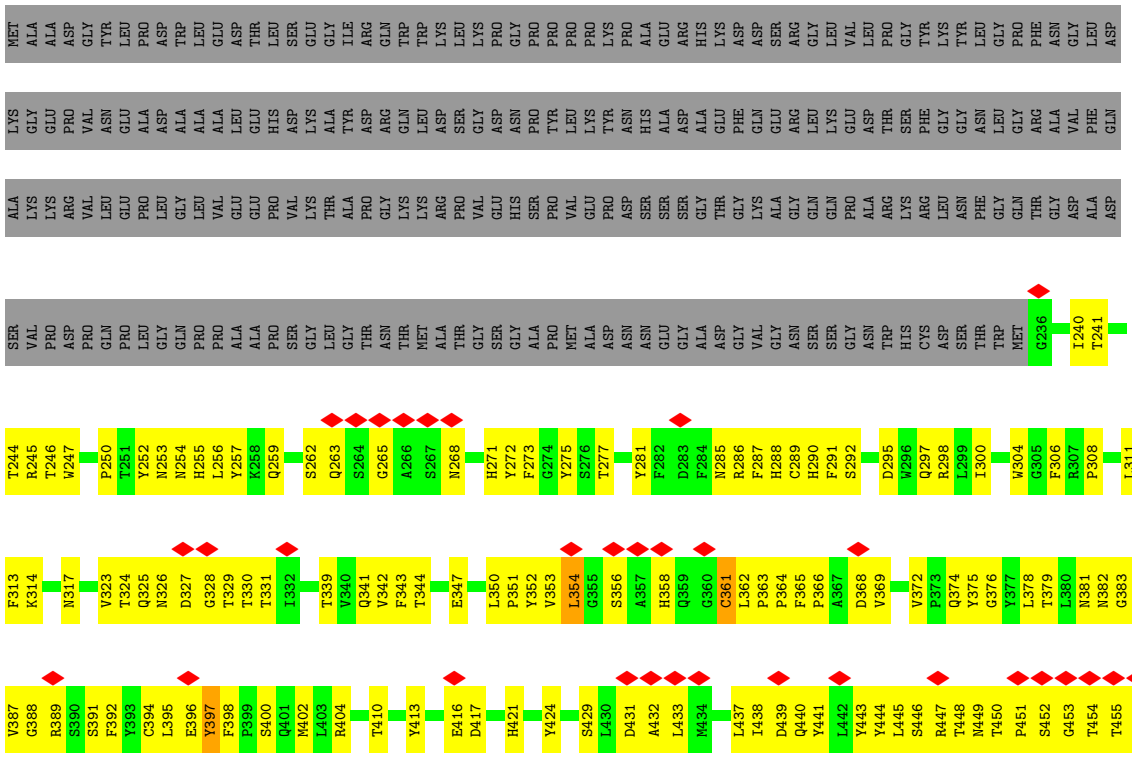


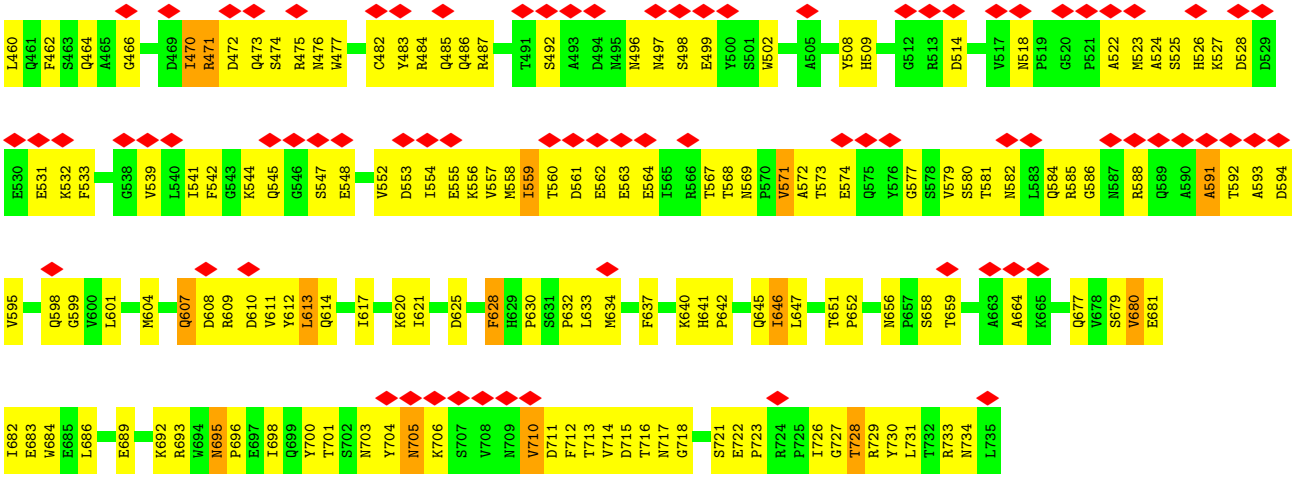


• Molecule 1: Capsid protein VP1

Chain J:

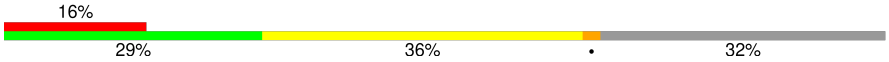


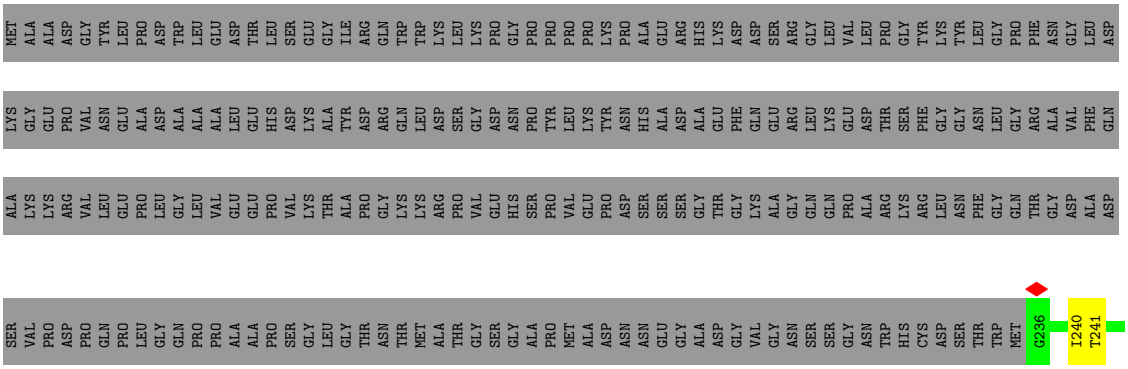


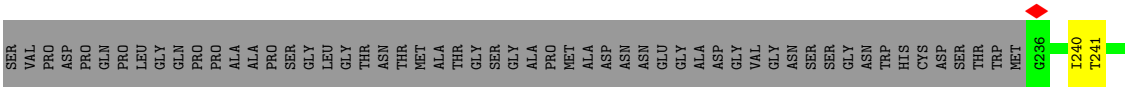


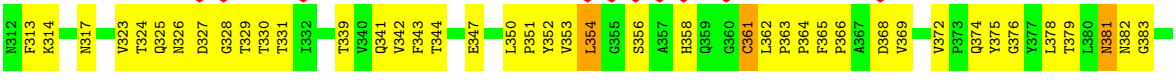
• Molecule 1: Capsid protein VP1

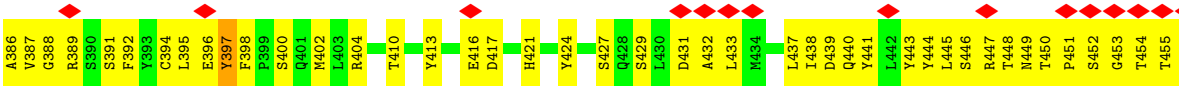
Chain K:

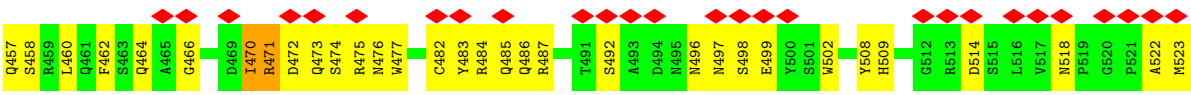


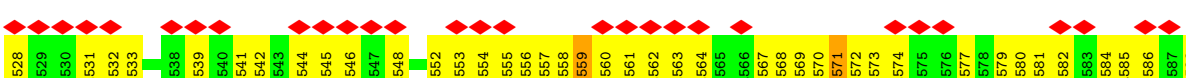


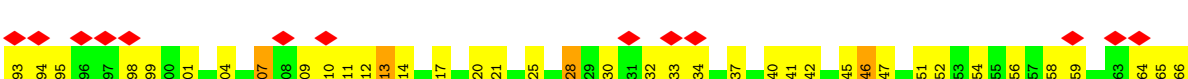


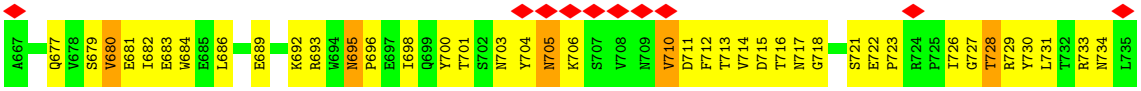




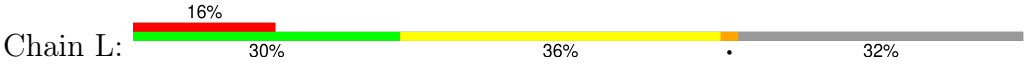


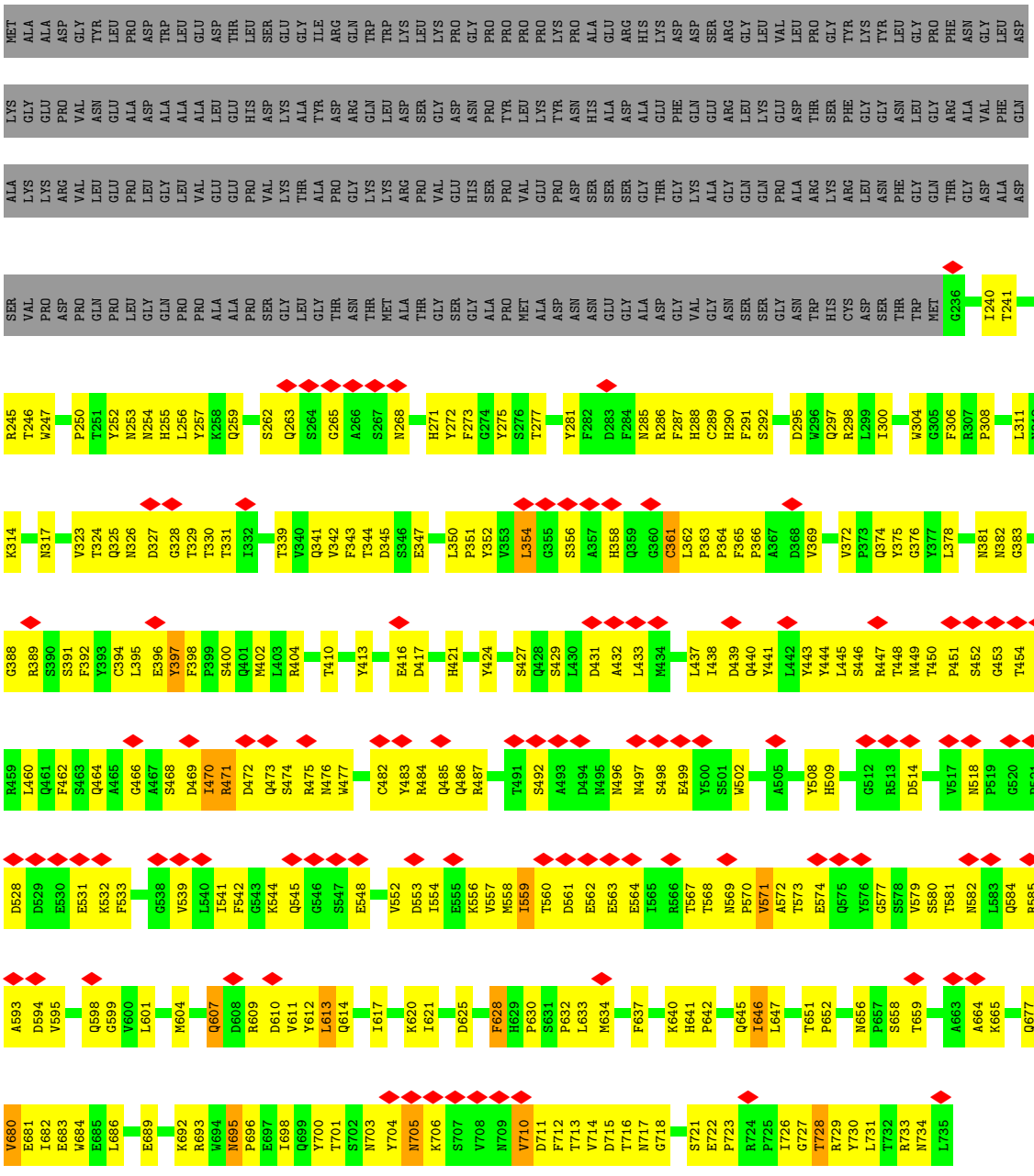




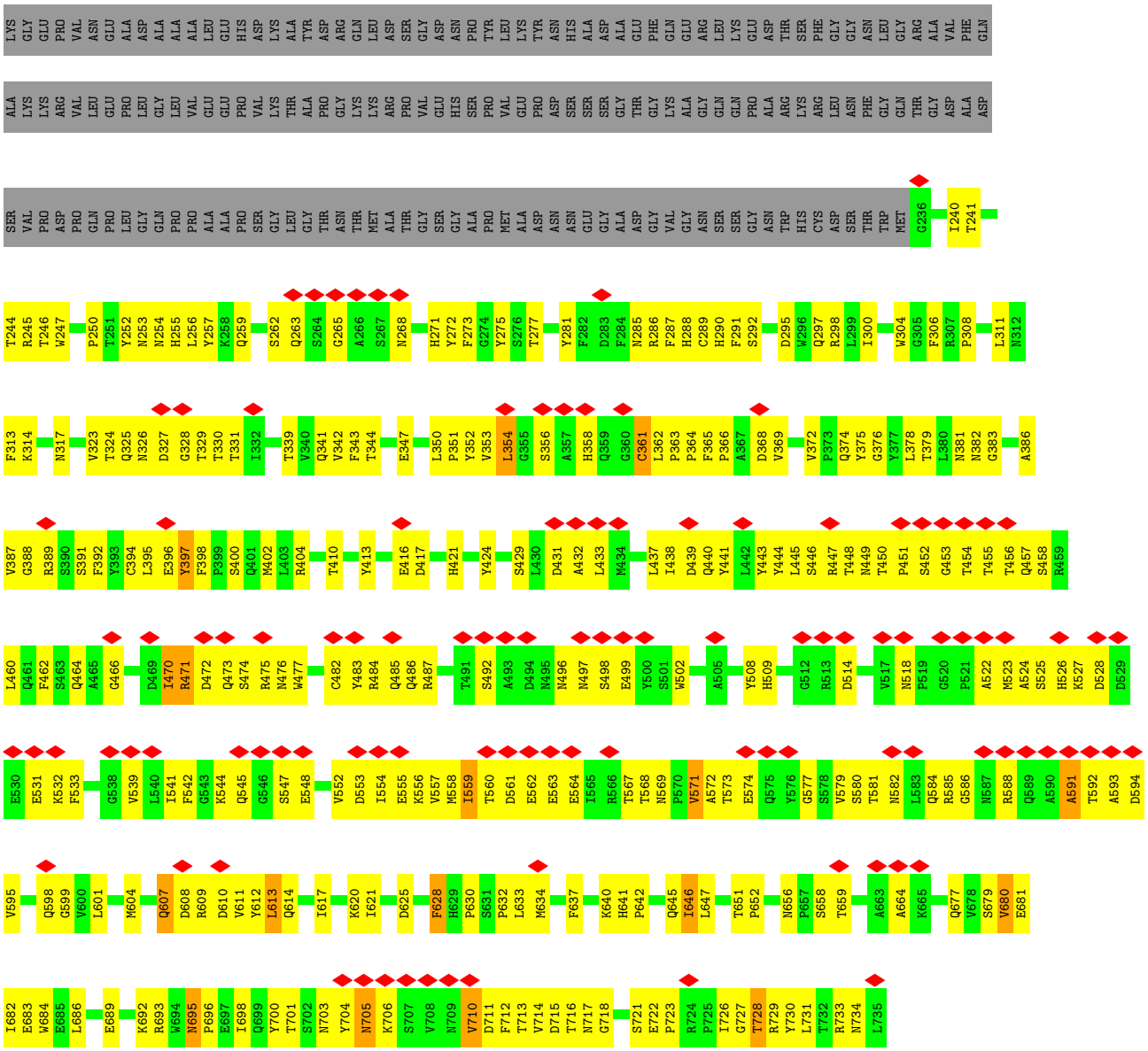


• Molecule 1: Capsid protein VP1

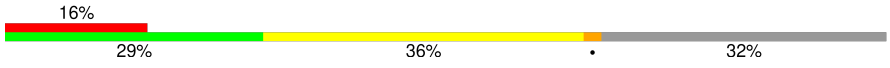


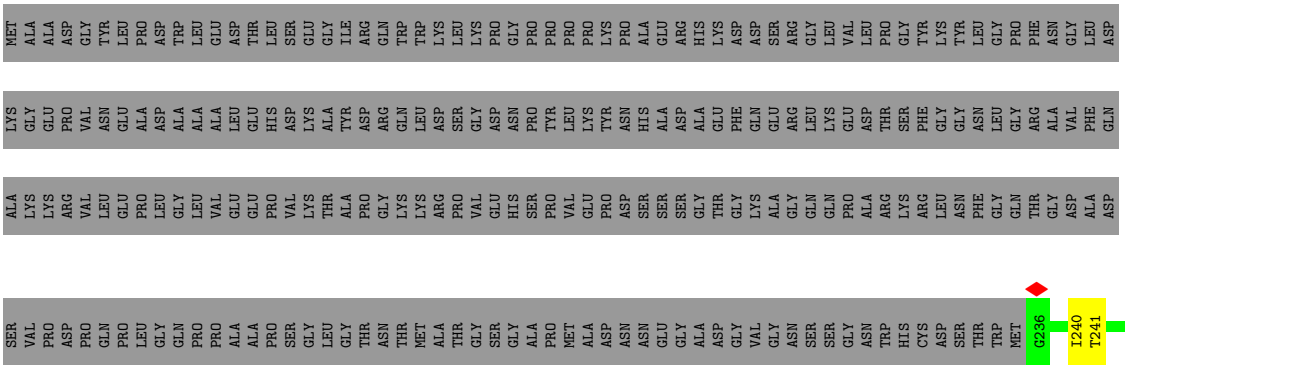


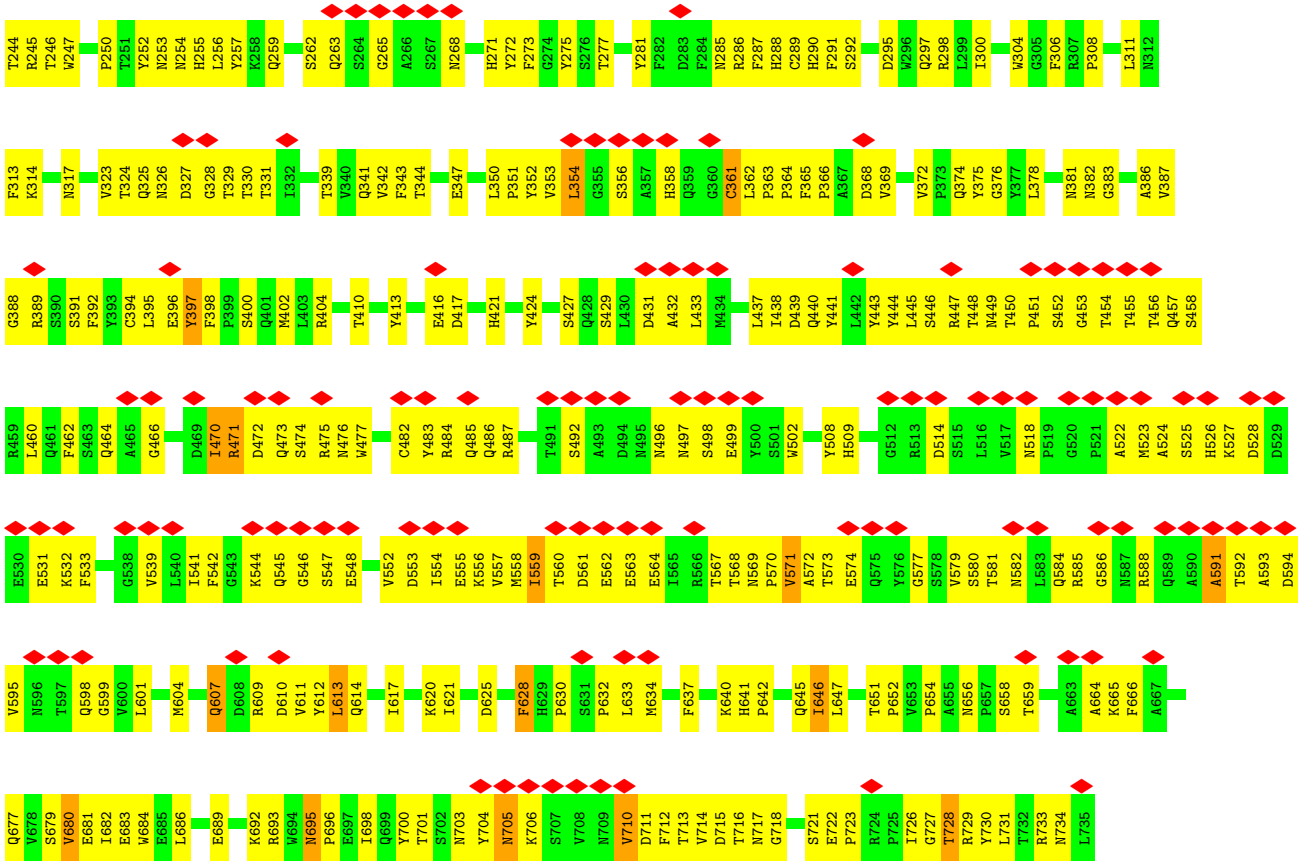
• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1

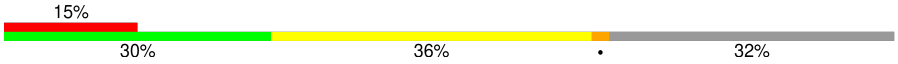


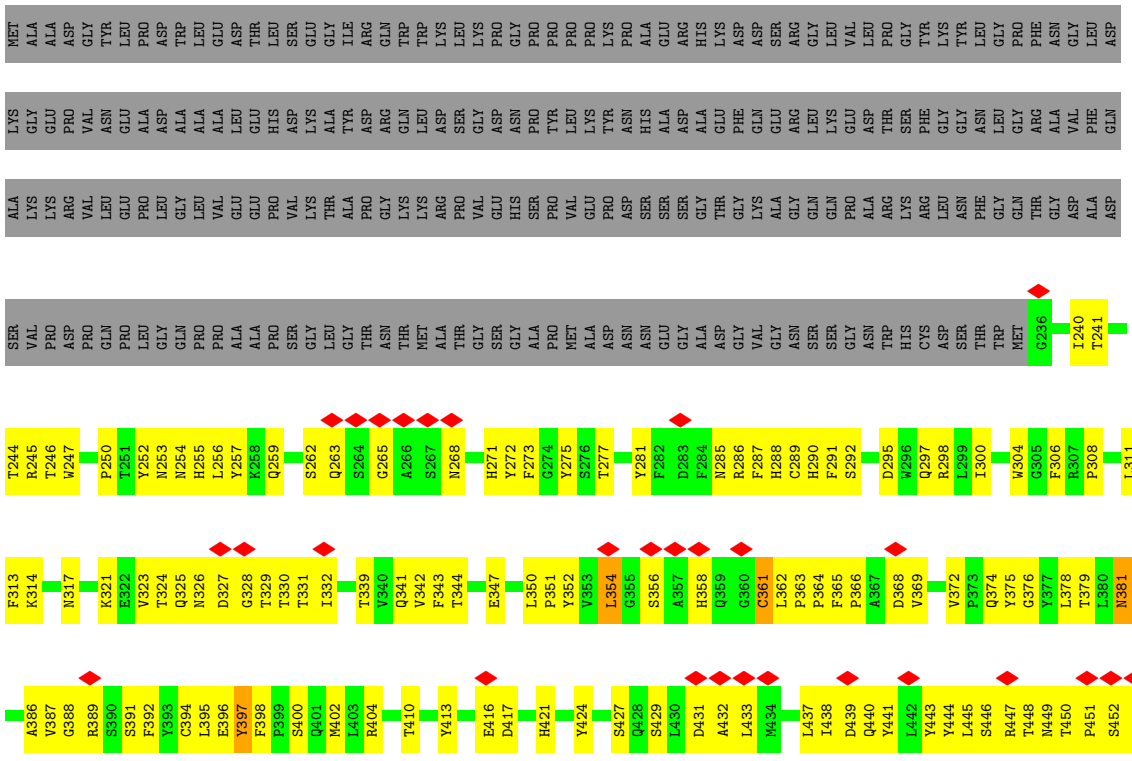


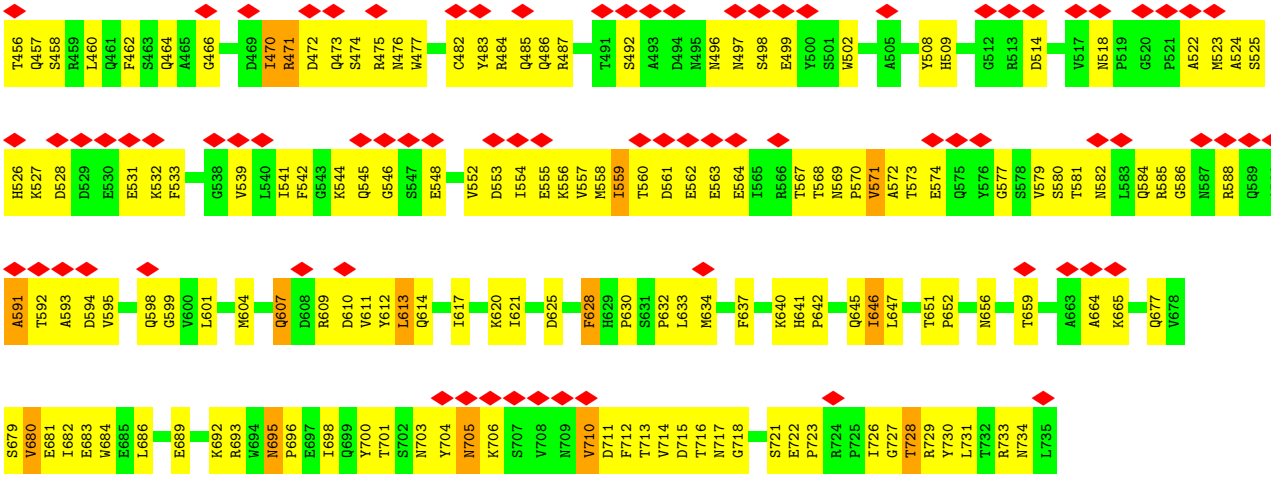


• Molecule 1: Capsid protein VP1

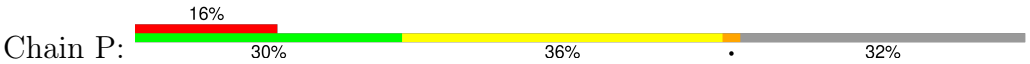
Chain O:

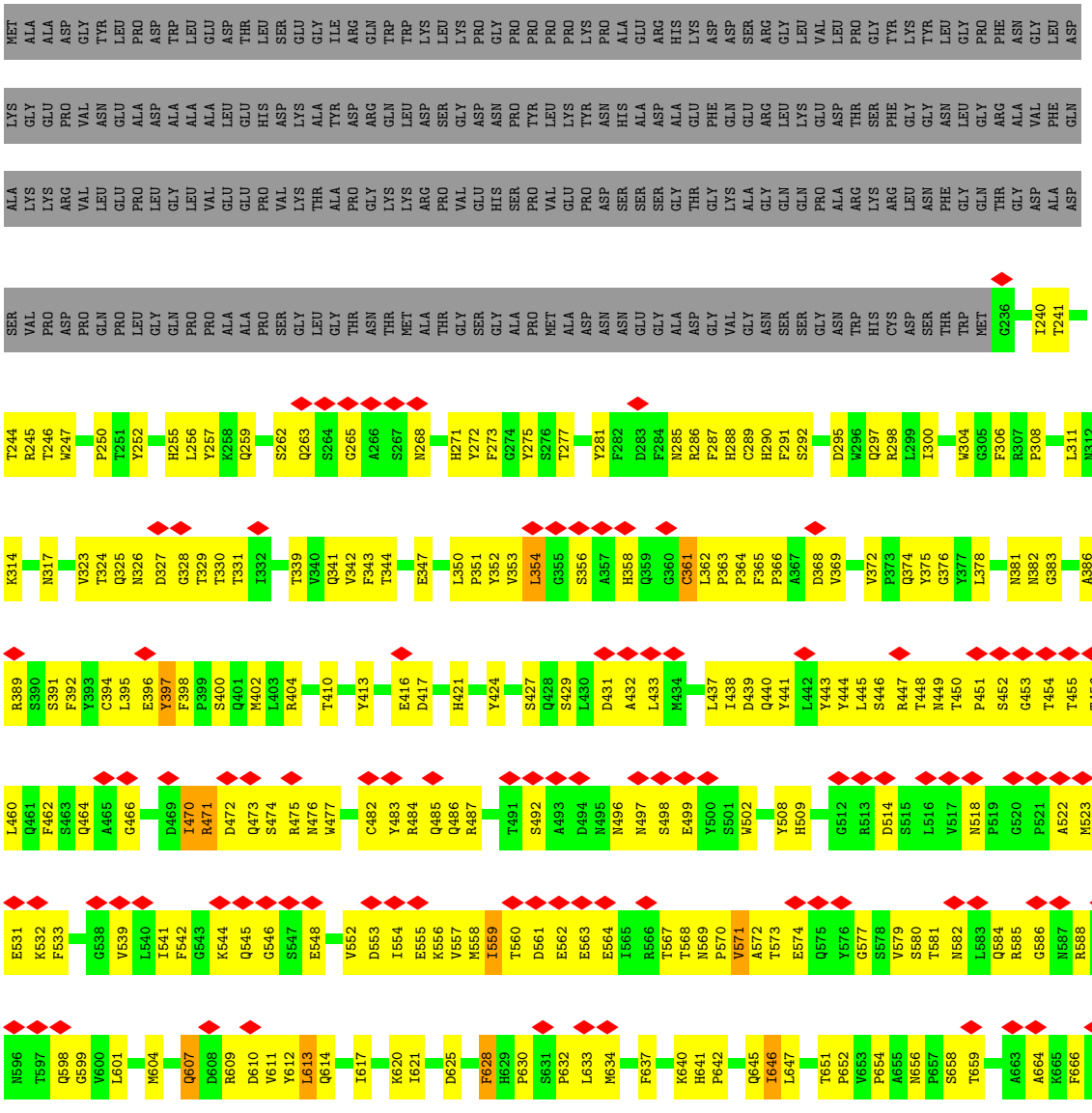


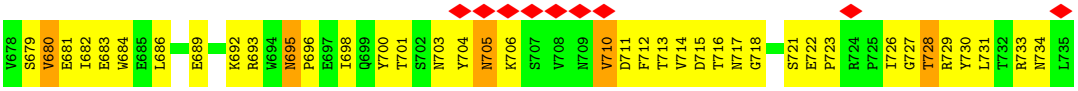




• Molecule 1: Capsid protein VP1

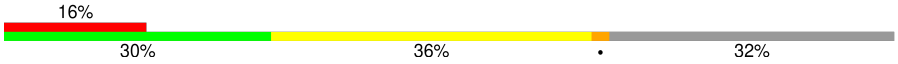


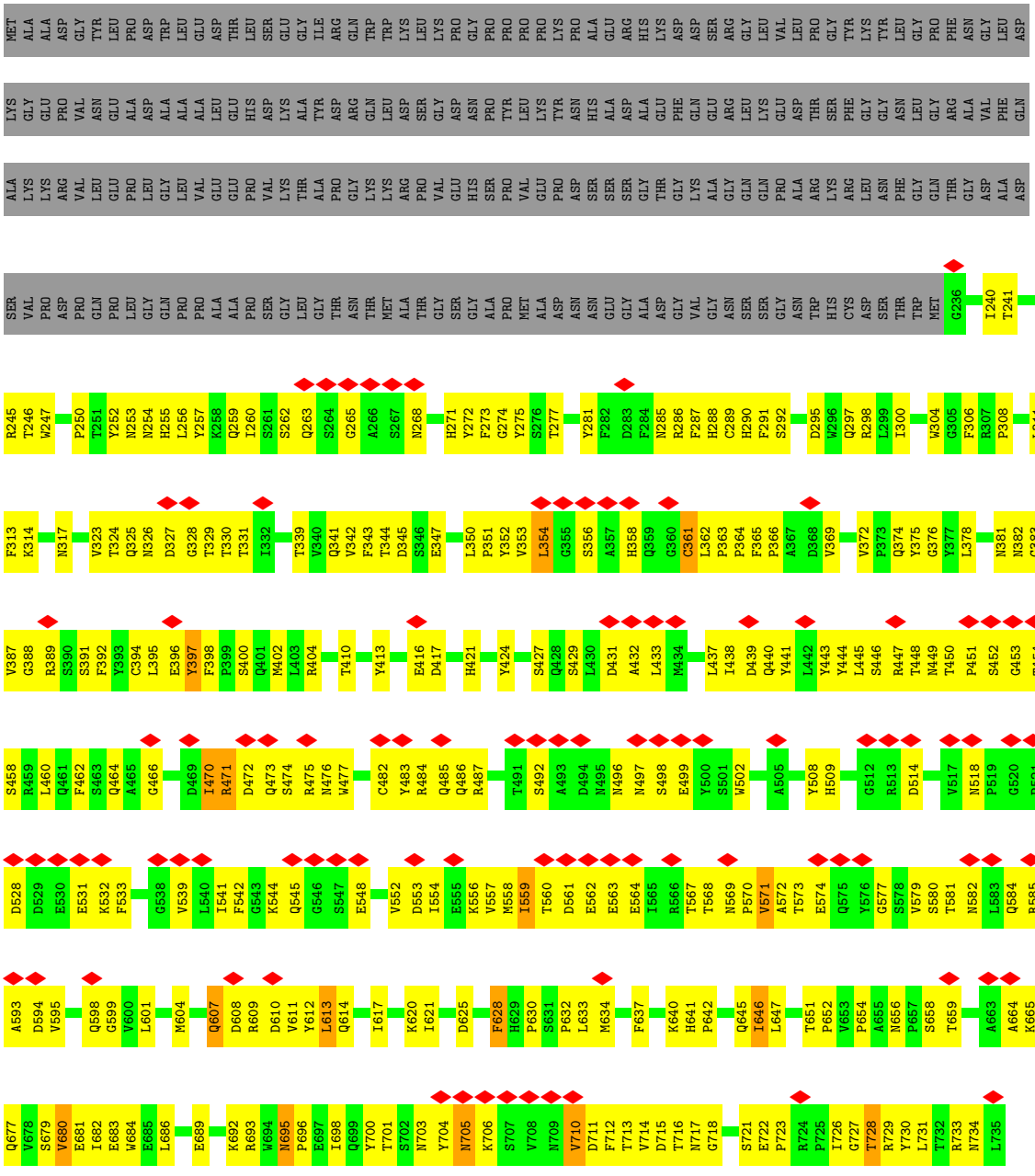




• Molecule 1: Capsid protein VP1

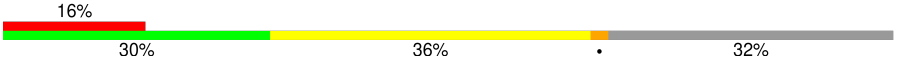
Chain Q:

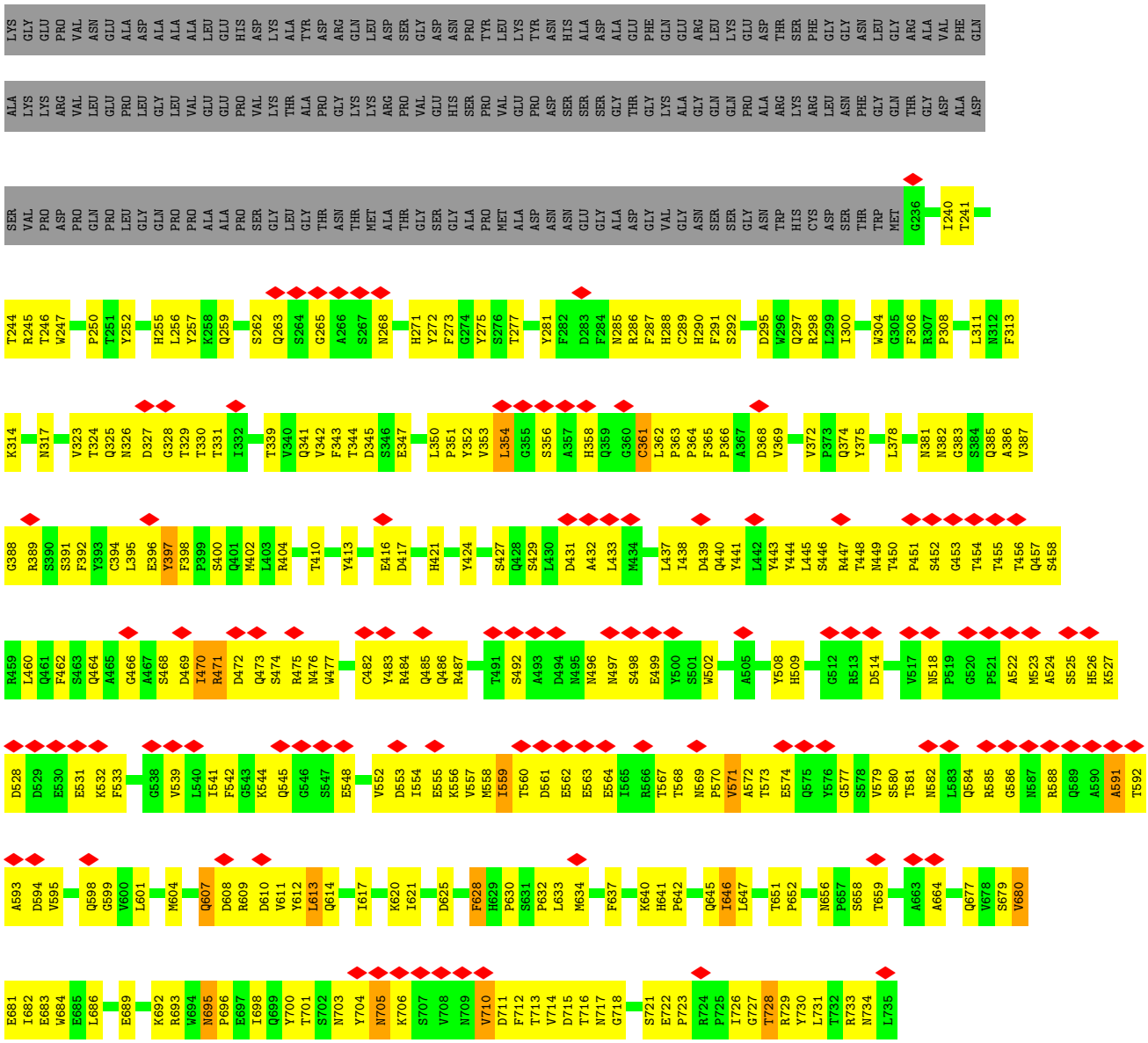




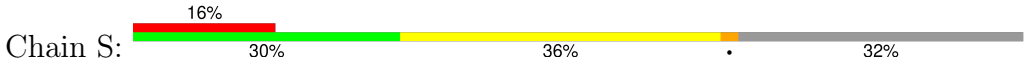
• Molecule 1: Capsid protein VP1

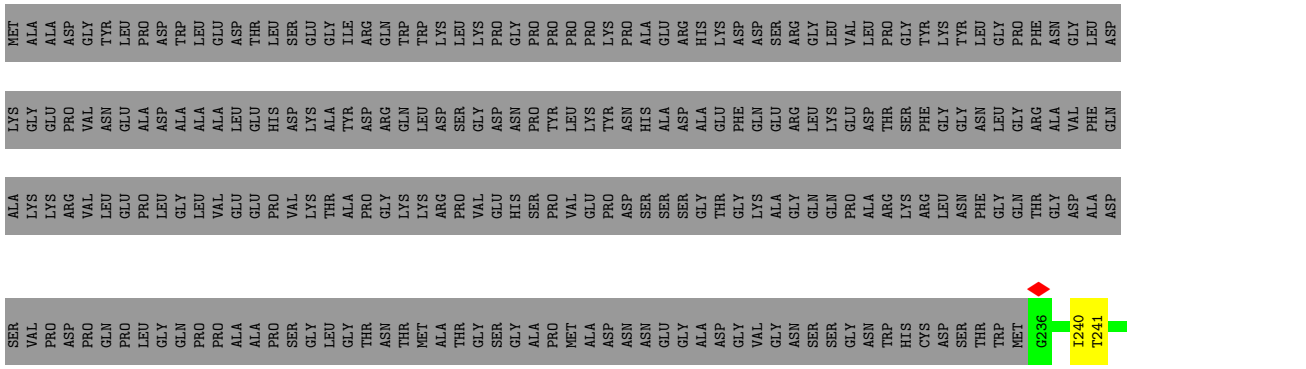
Chain R:

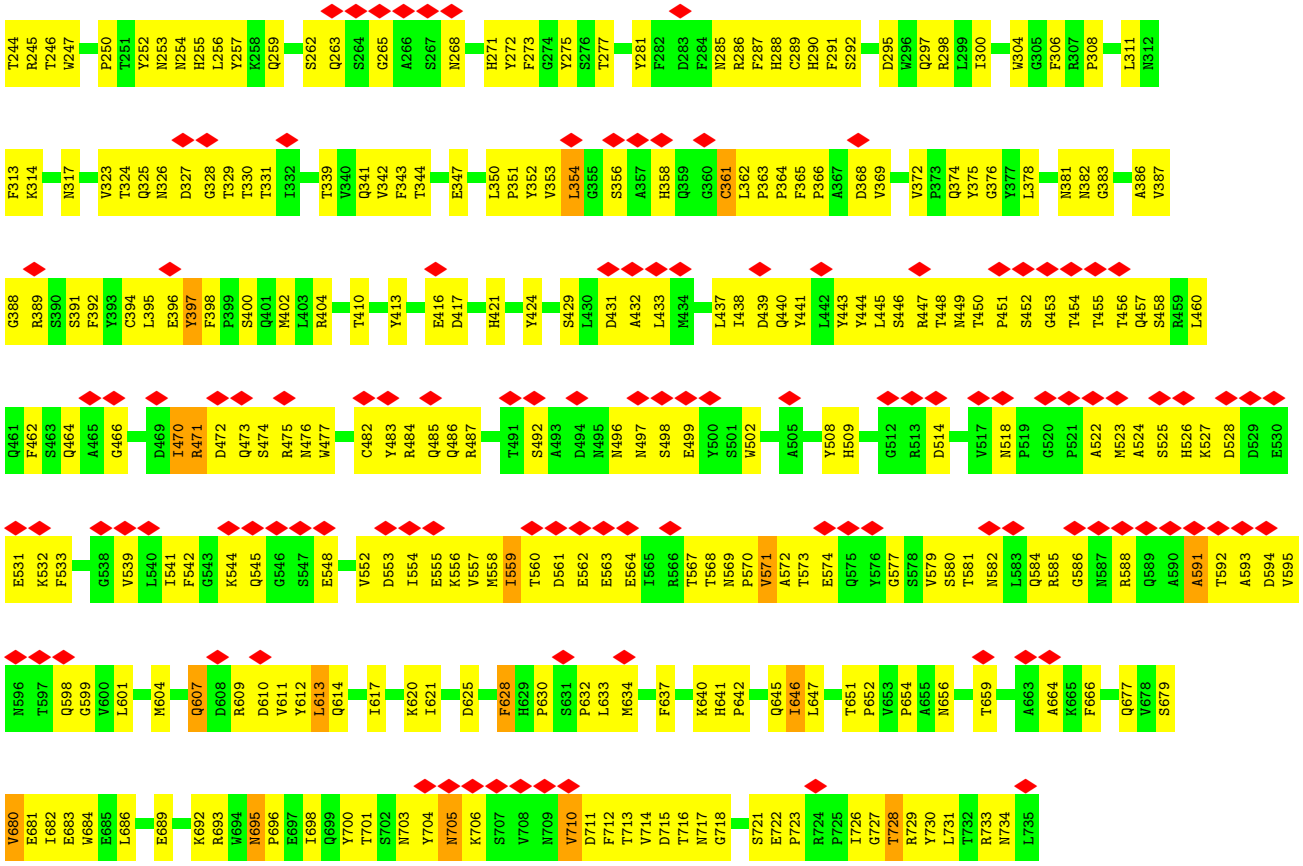




• Molecule 1: Capsid protein VP1

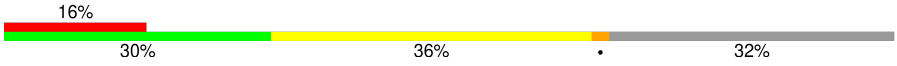


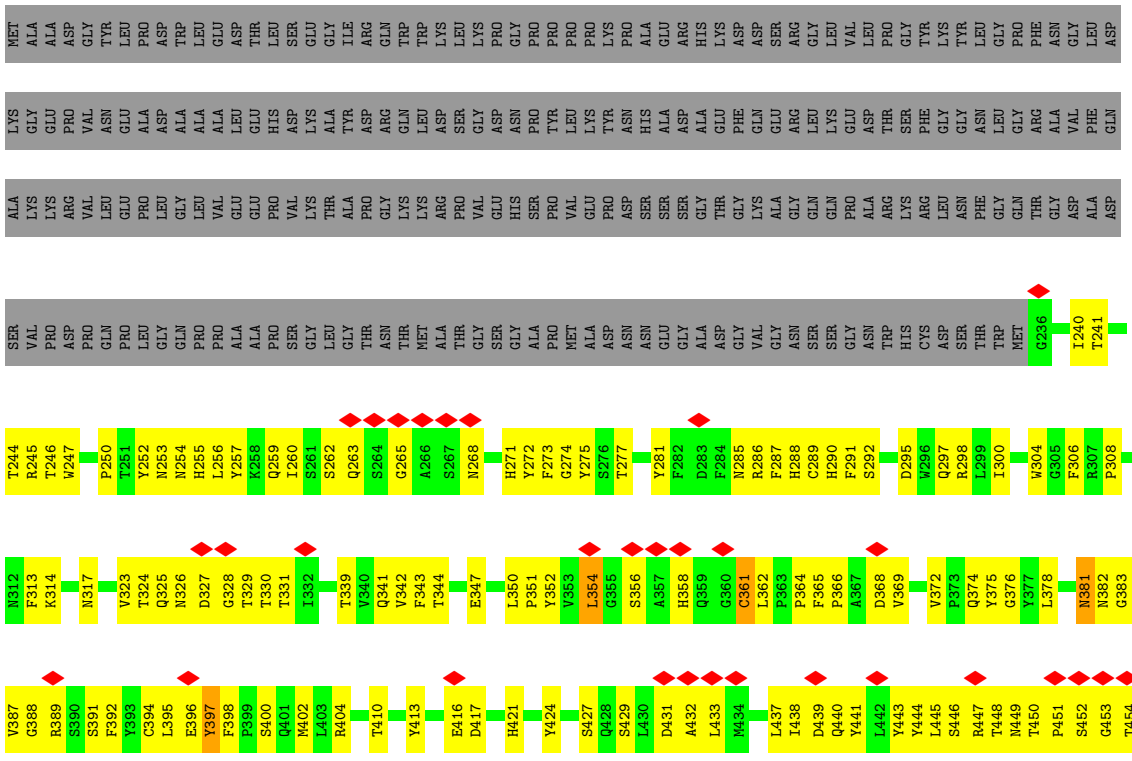


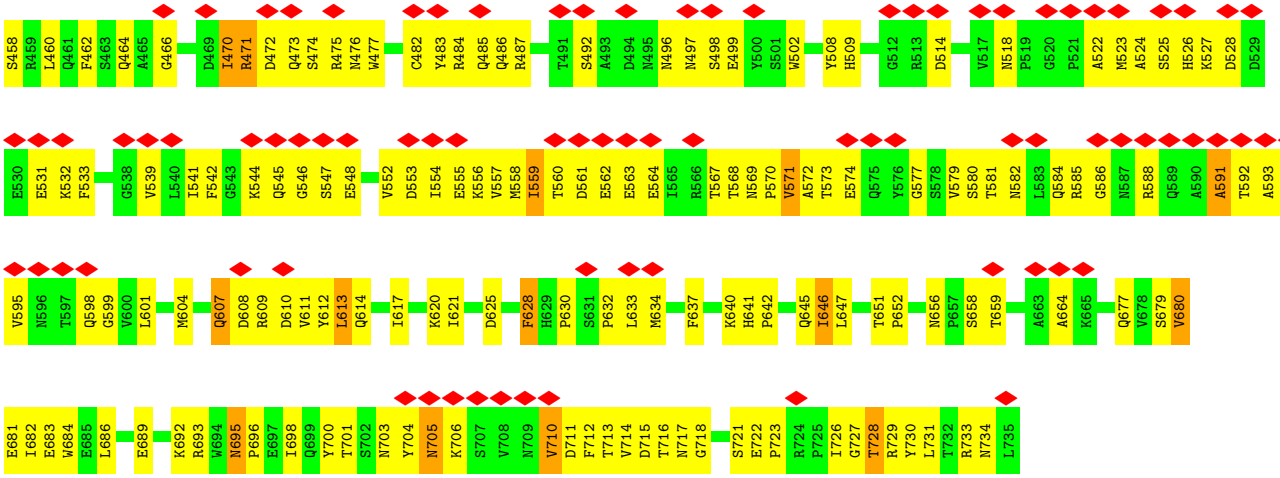


• Molecule 1: Capsid protein VP1

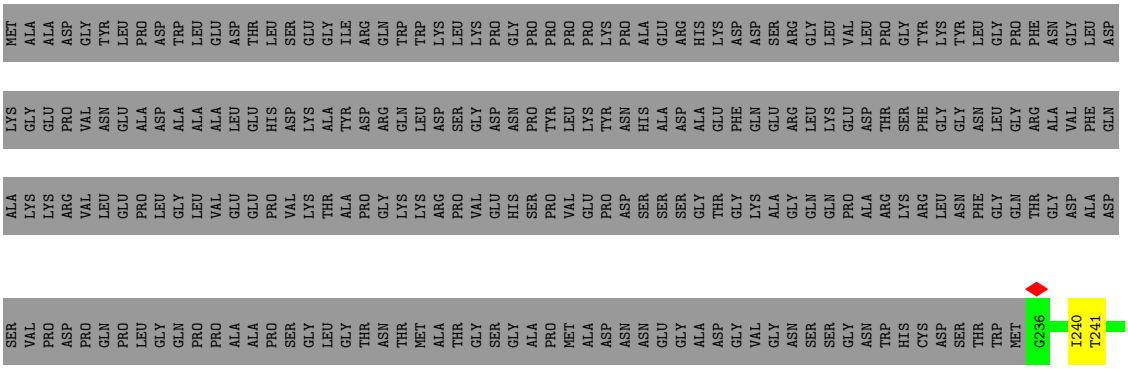
Chain T:

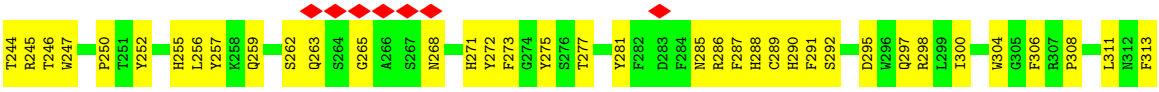


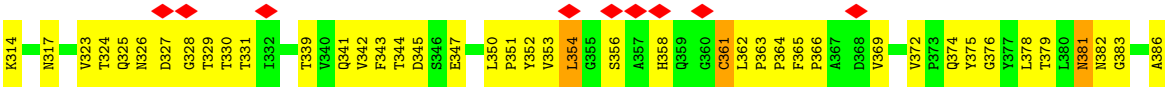


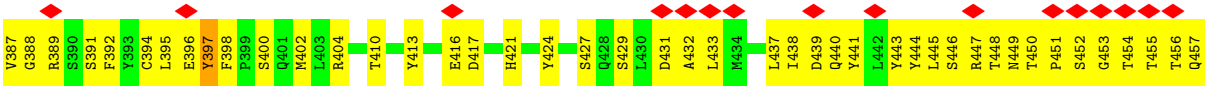


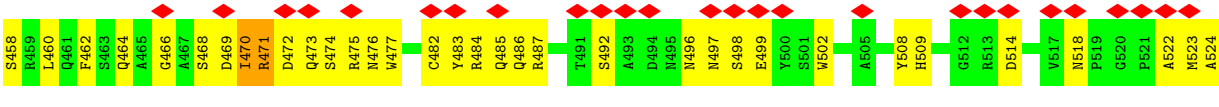
• Molecule 1: Capsid protein VP1

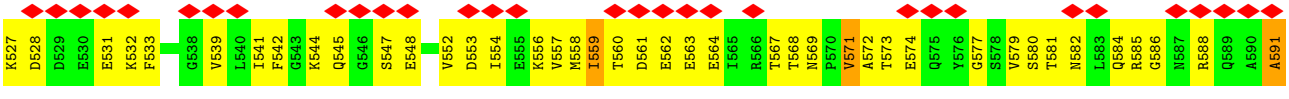


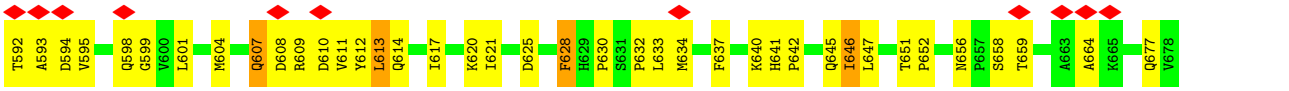


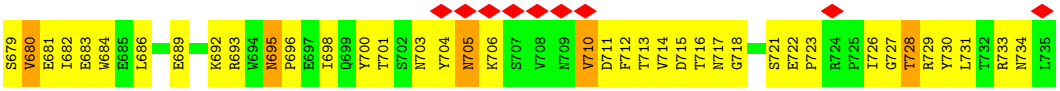






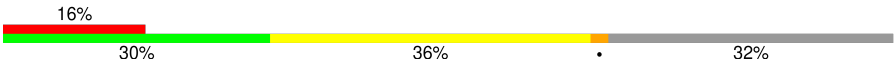


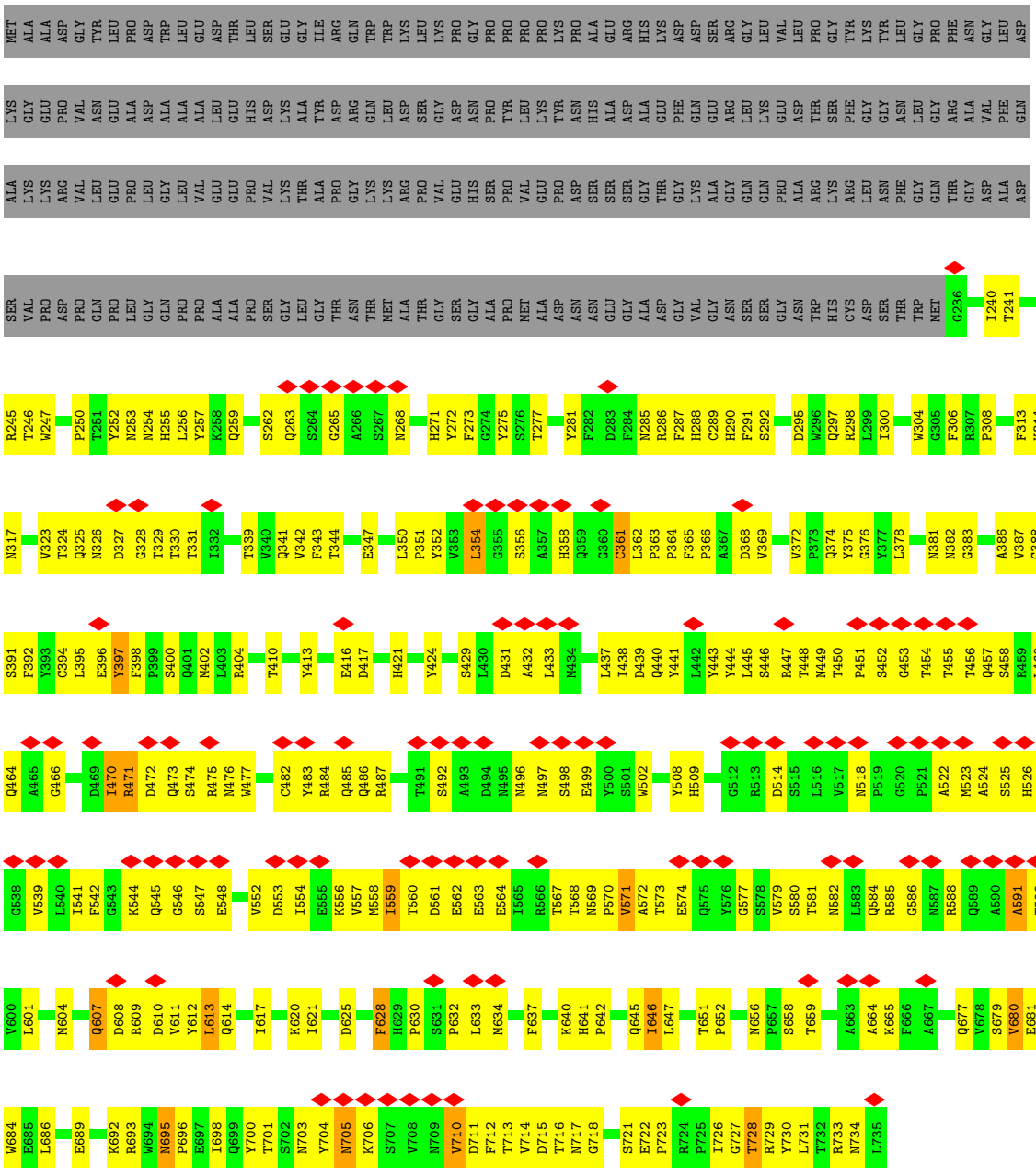




• Molecule 1: Capsid protein VP1

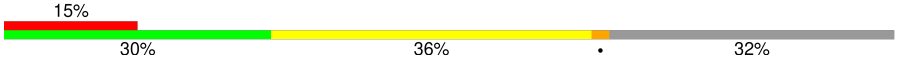
Chain V:

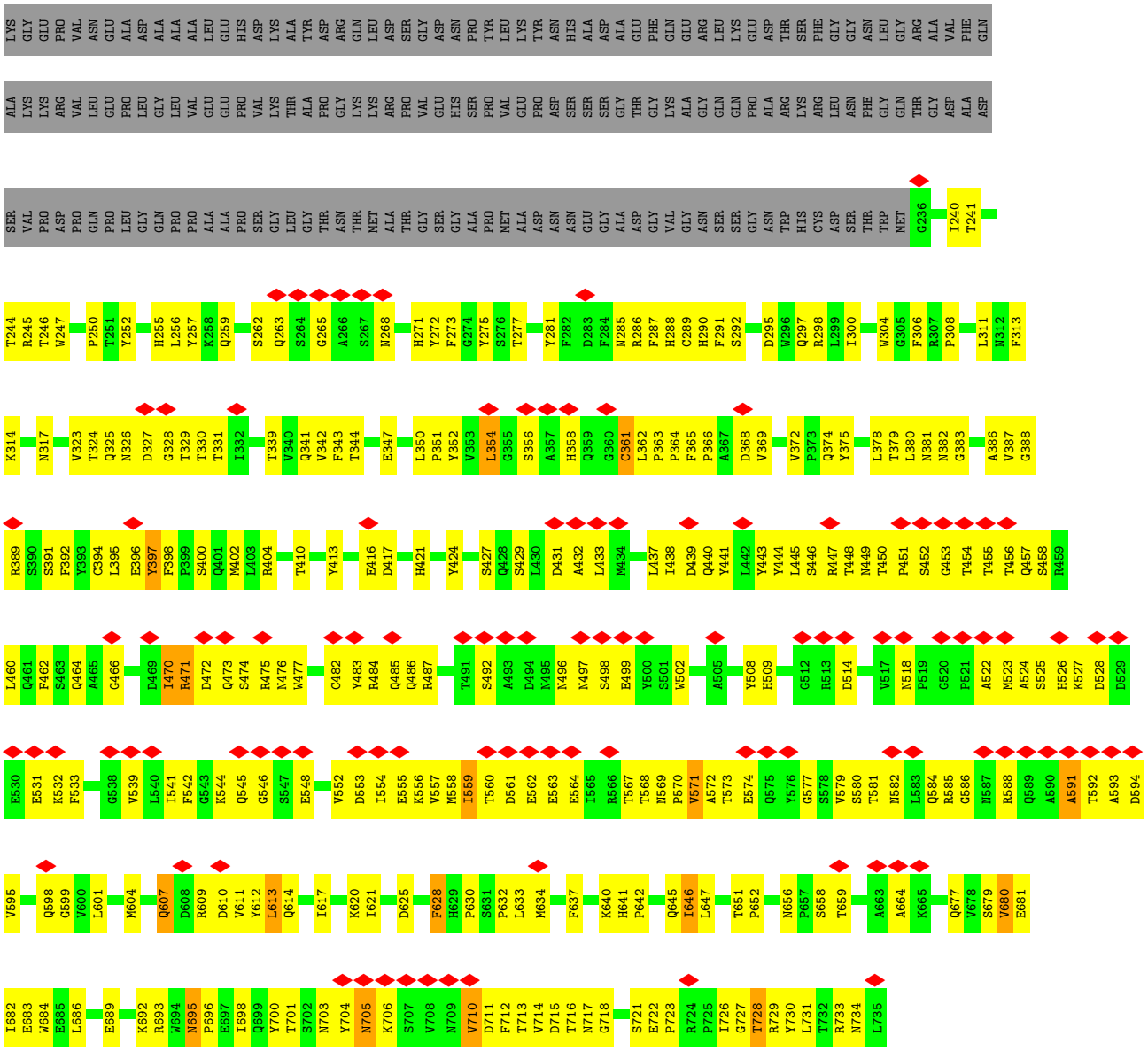




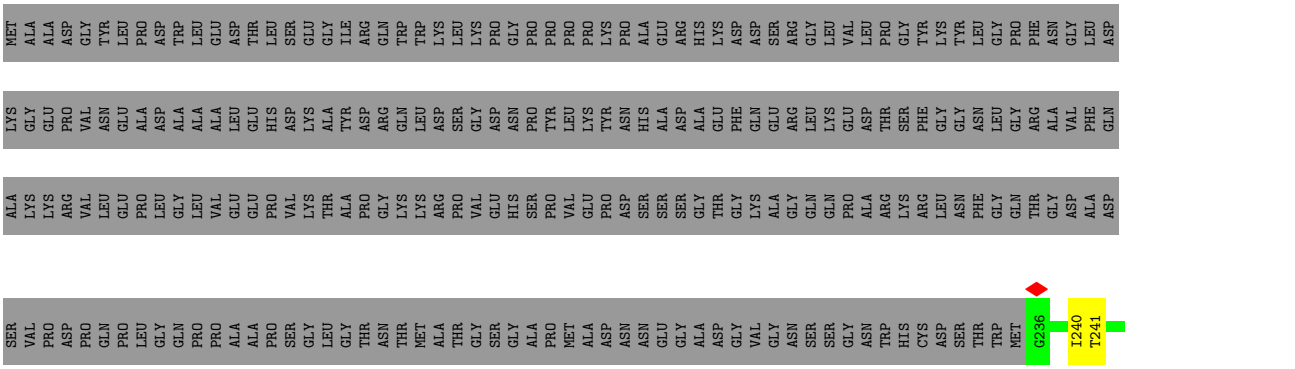
• Molecule 1: Capsid protein VP1

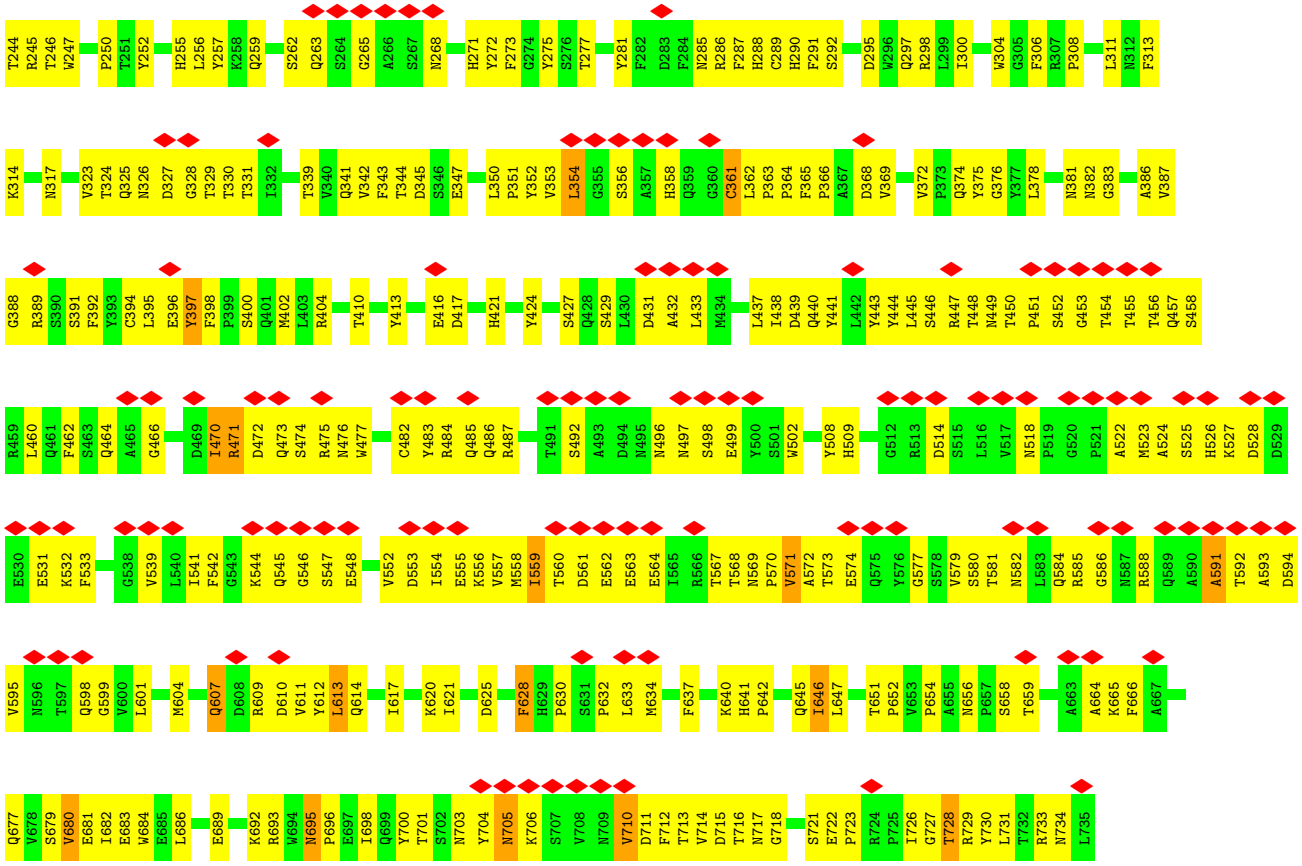
Chain W:





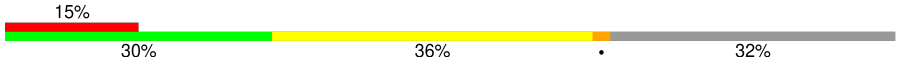
• Molecule 1: Capsid protein VP1

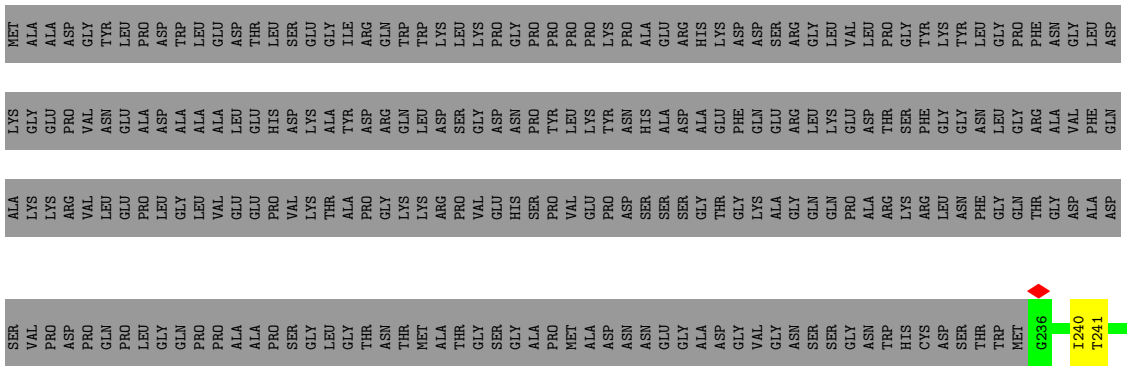


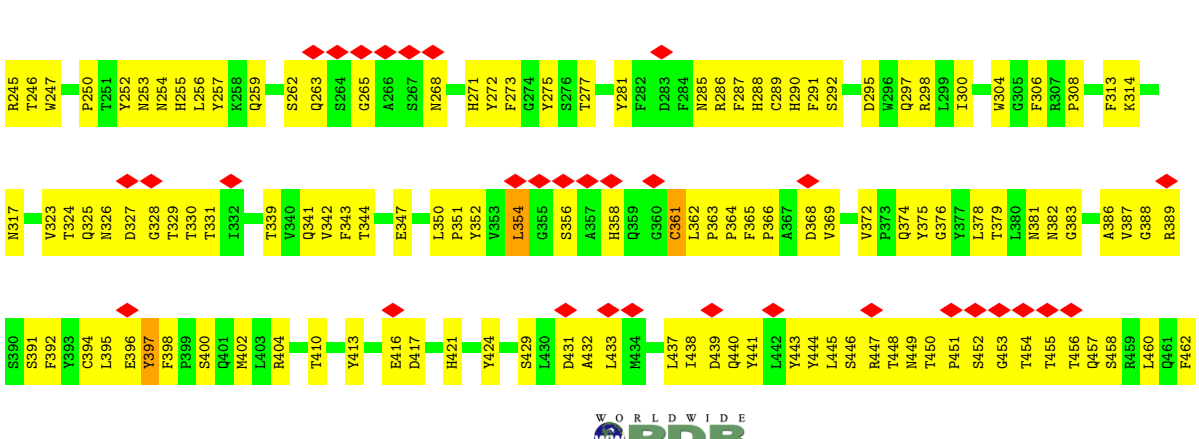


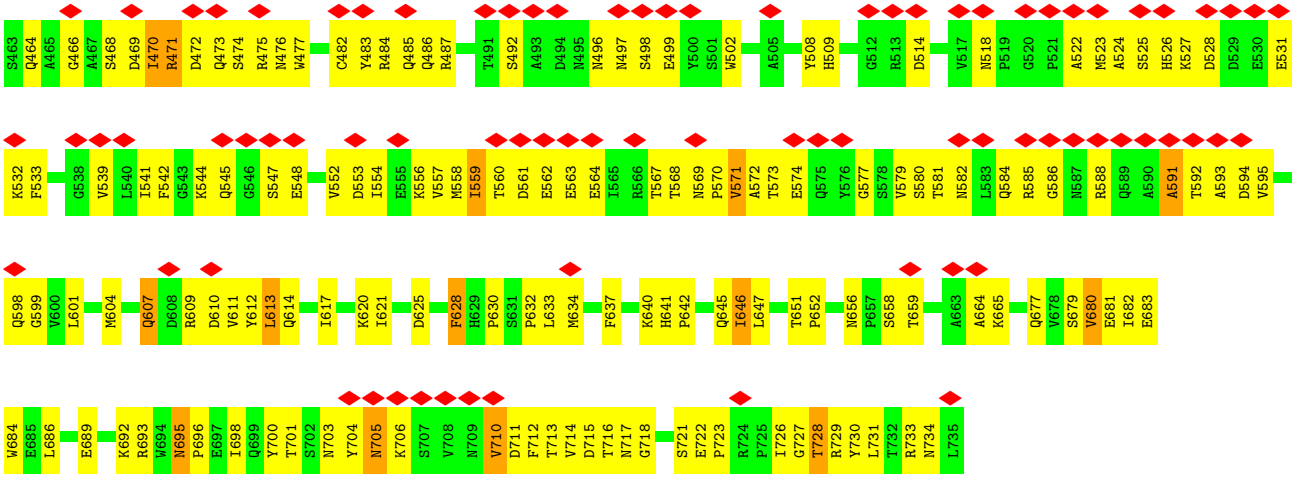
• Molecule 1: Capsid protein VP1

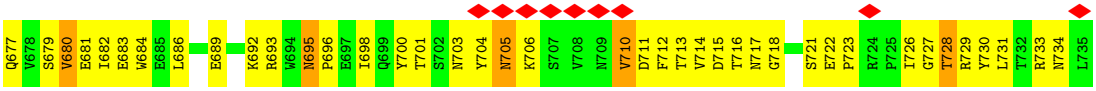
Chain Y:





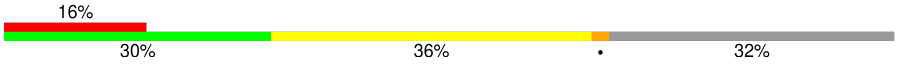


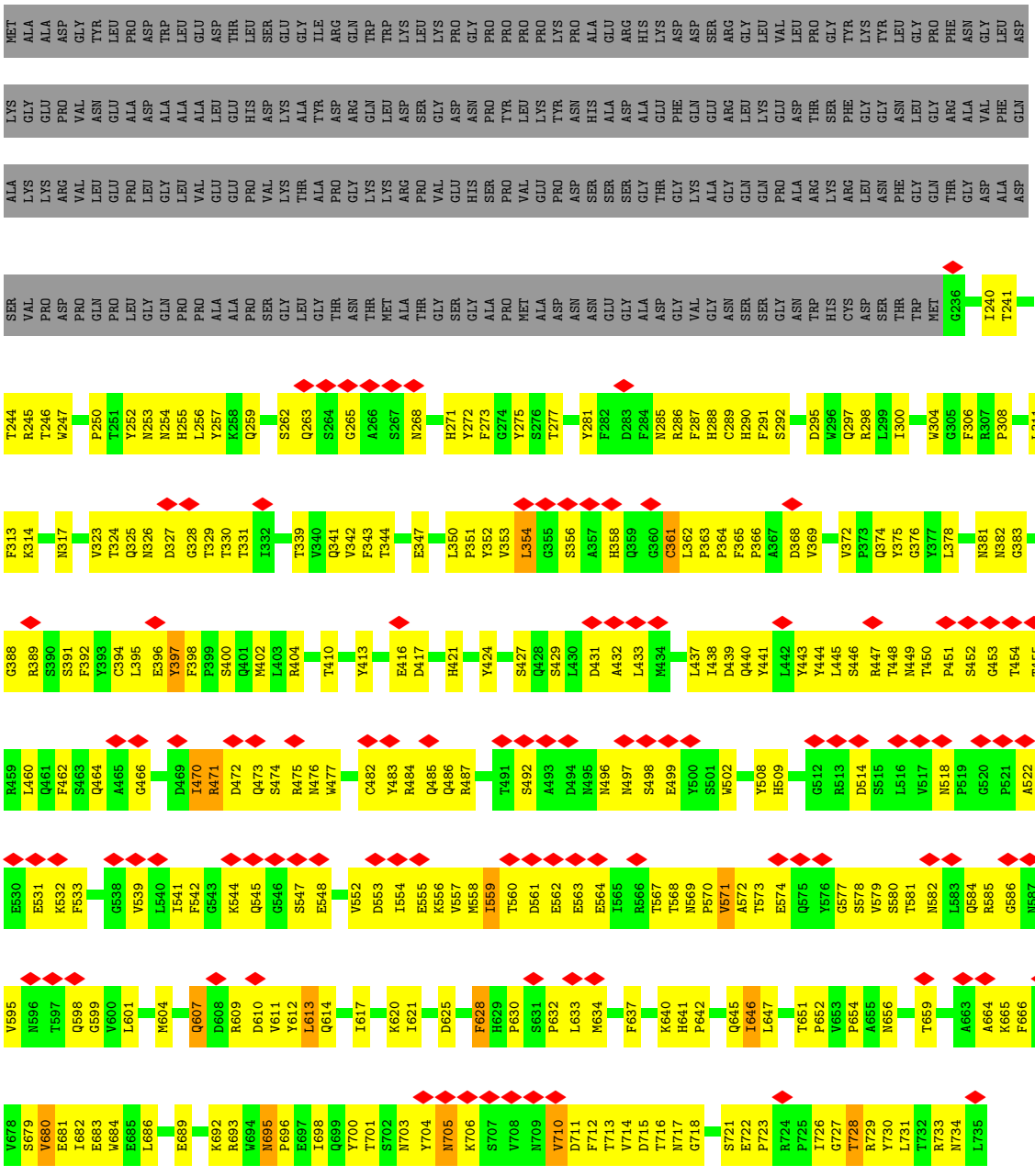




• Molecule 1: Capsid protein VP1

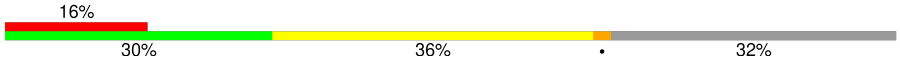
Chain a:

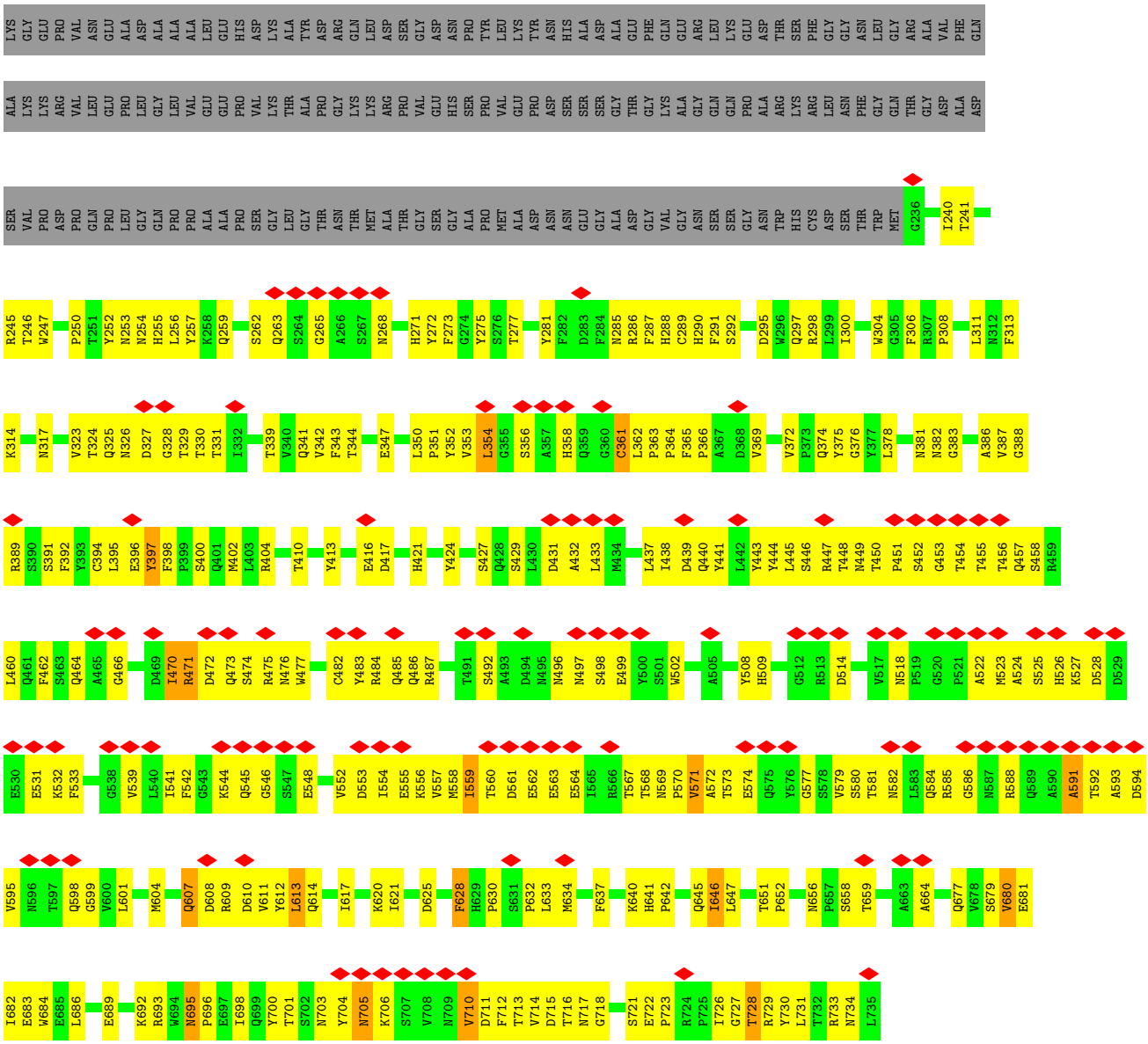




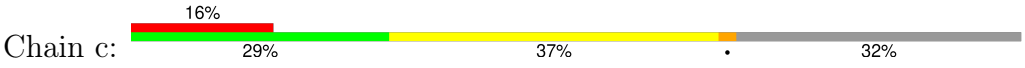
• Molecule 1: Capsid protein VP1

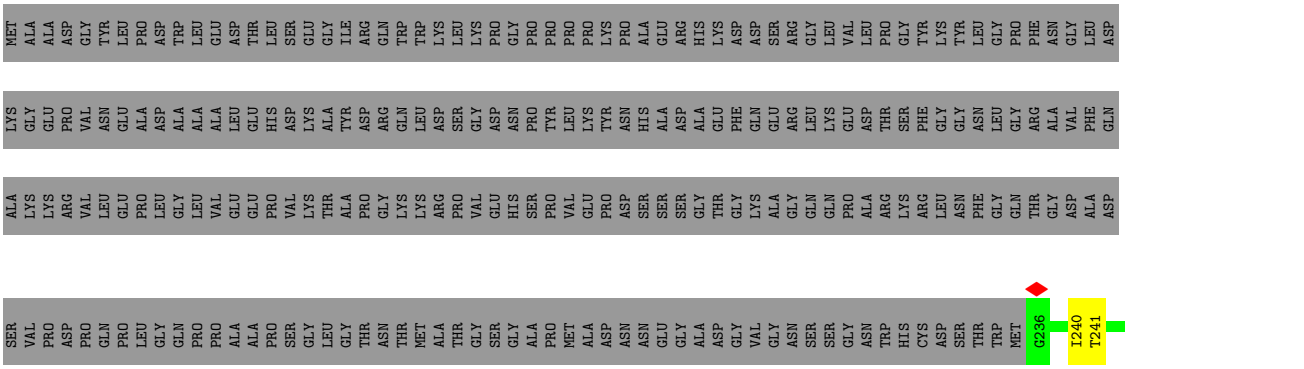
Chain b:

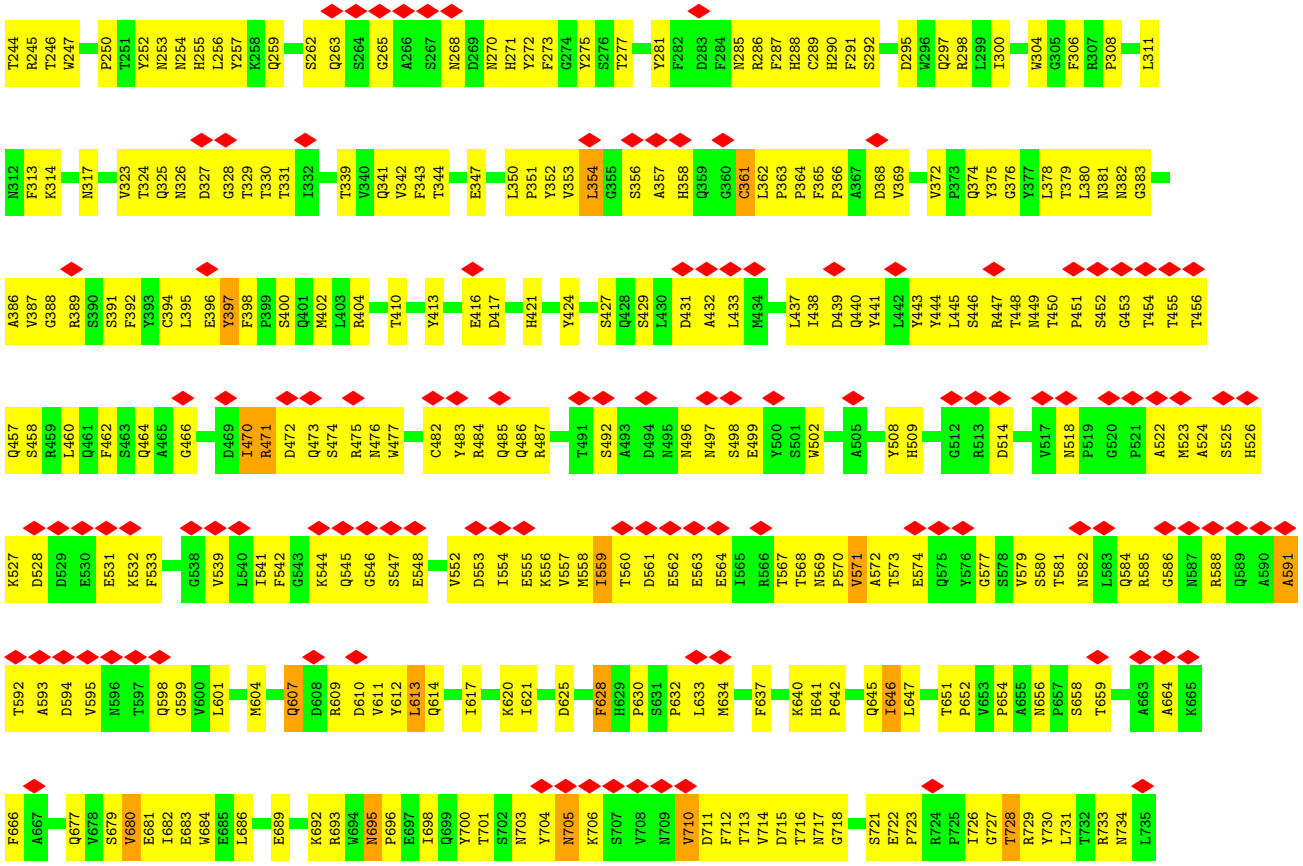




• Molecule 1: Capsid protein VP1

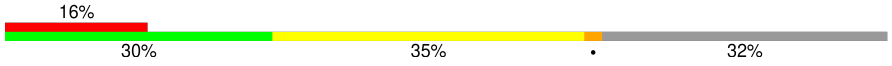


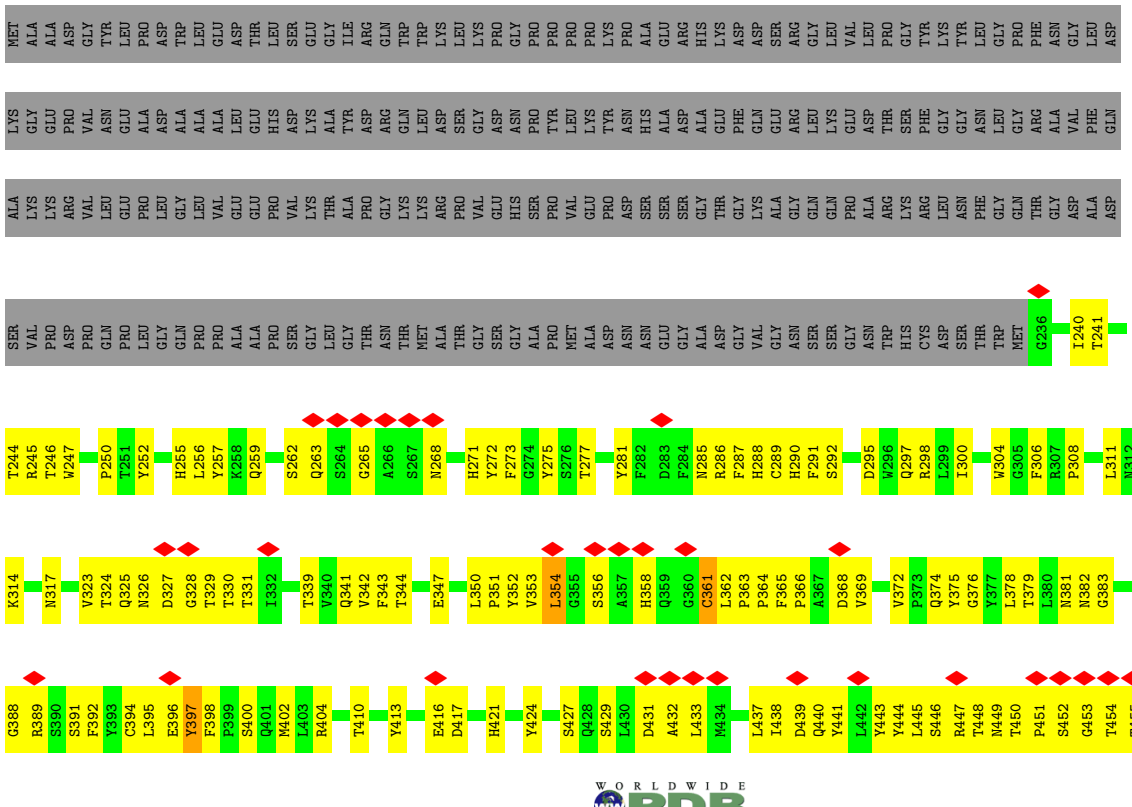


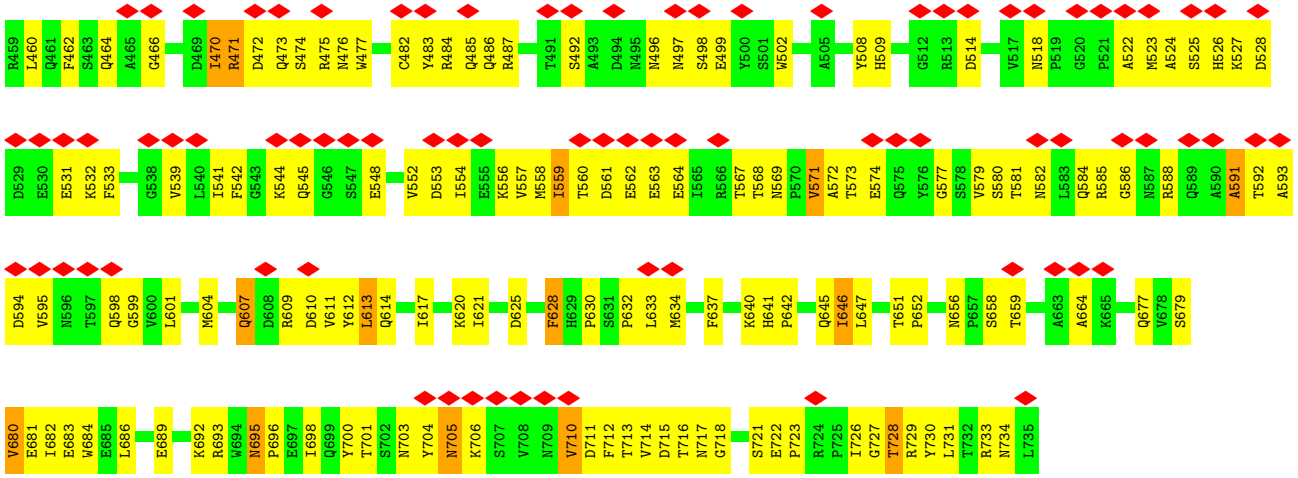


• Molecule 1: Capsid protein VP1

Chain d:

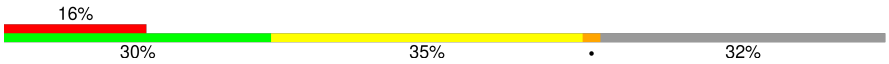


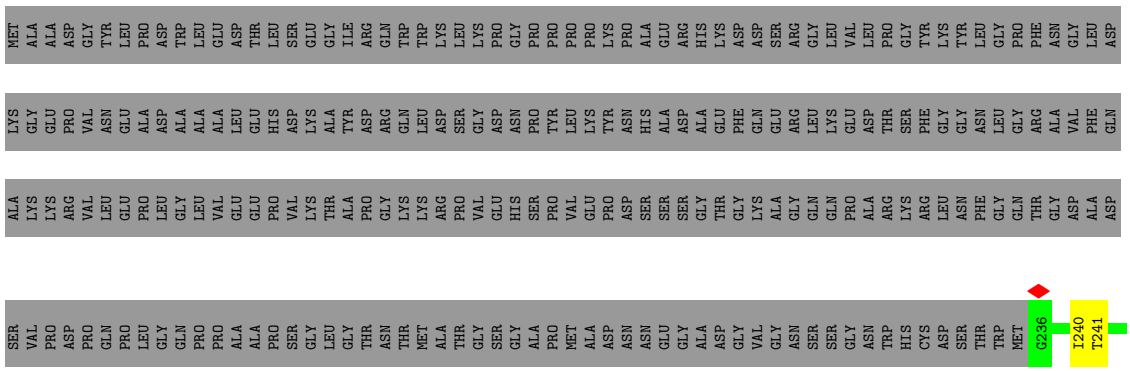


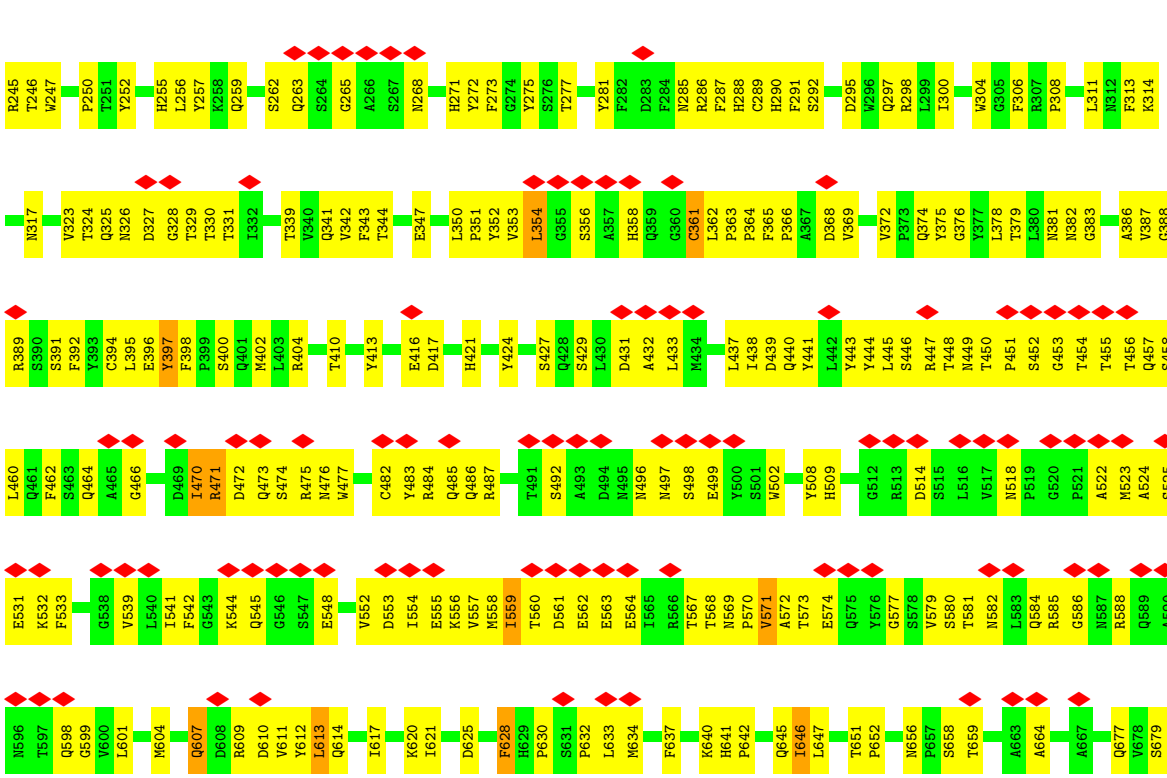


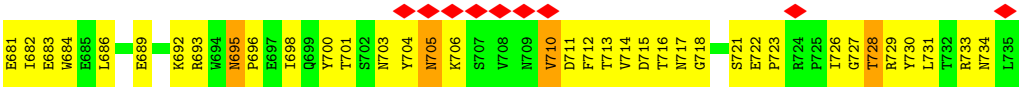
• Molecule 1: Capsid protein VP1

Chain e:



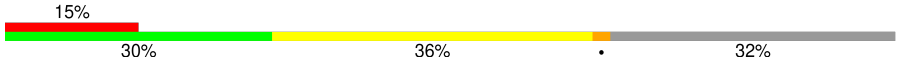


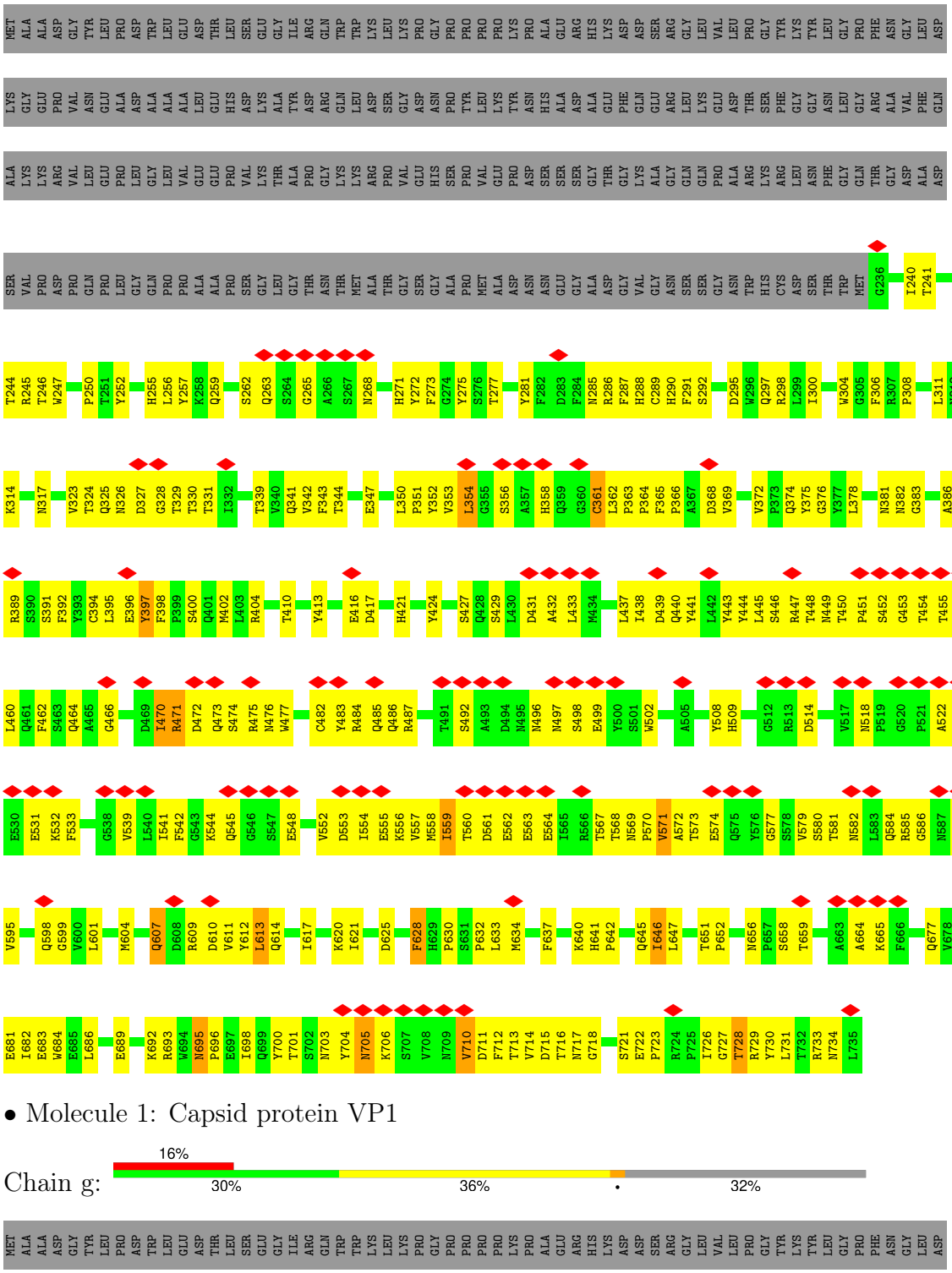




• Molecule 1: Capsid protein VP1

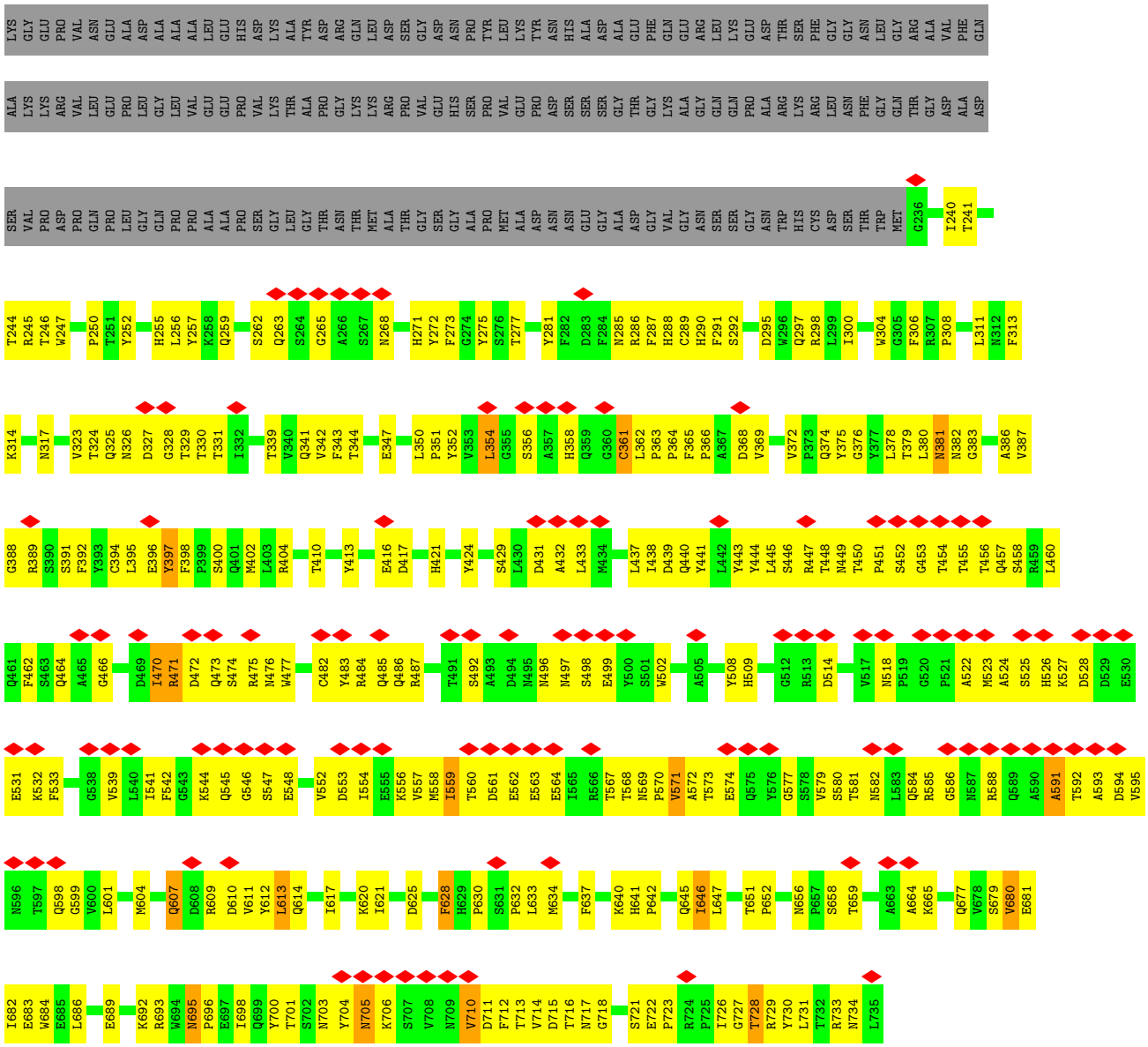
Chain f:





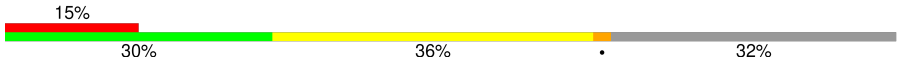
• Molecule 1: Capsid protein VP1

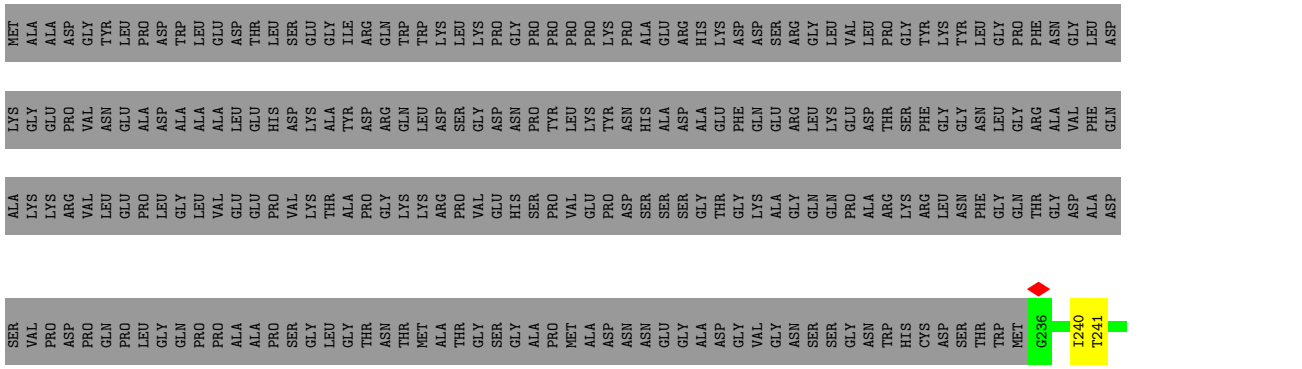
Chain g:

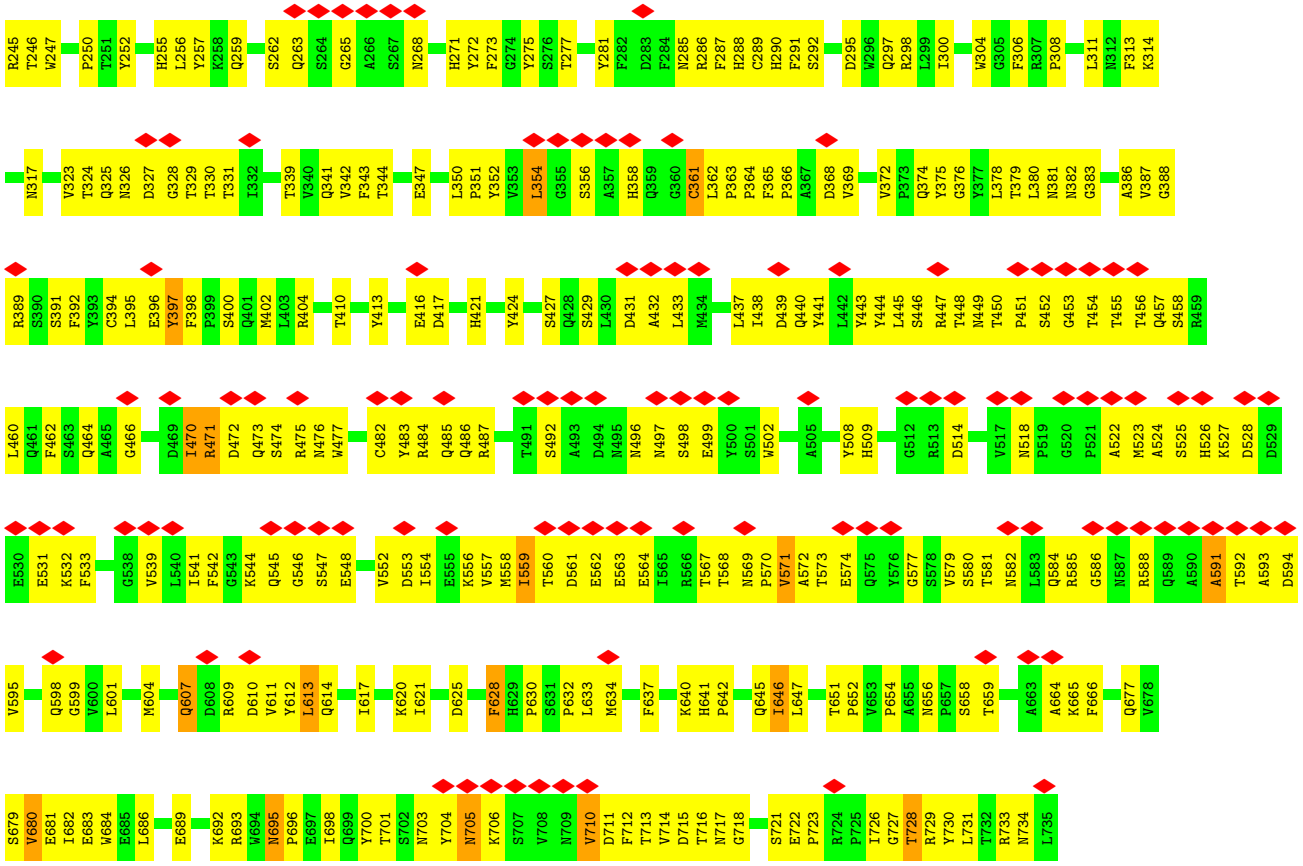


• Molecule 1: Capsid protein VP1

Chain h:

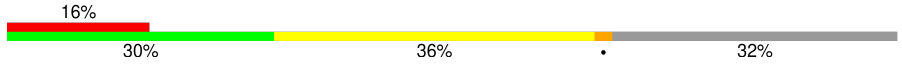


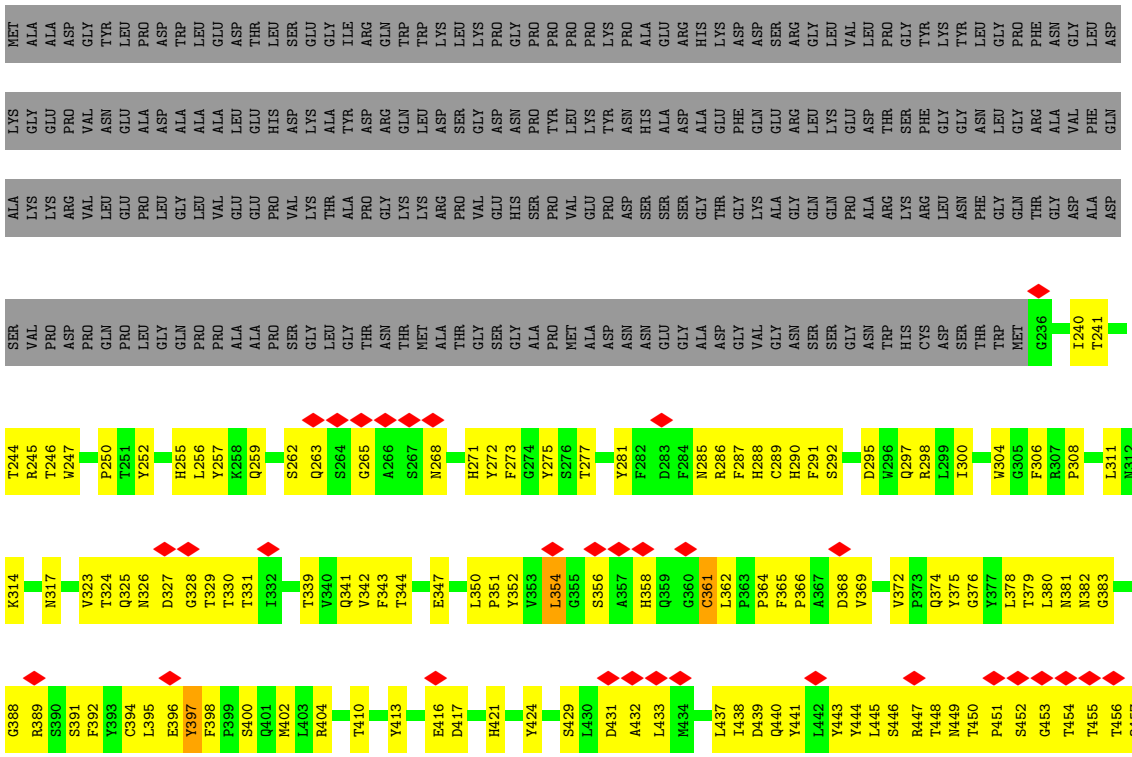


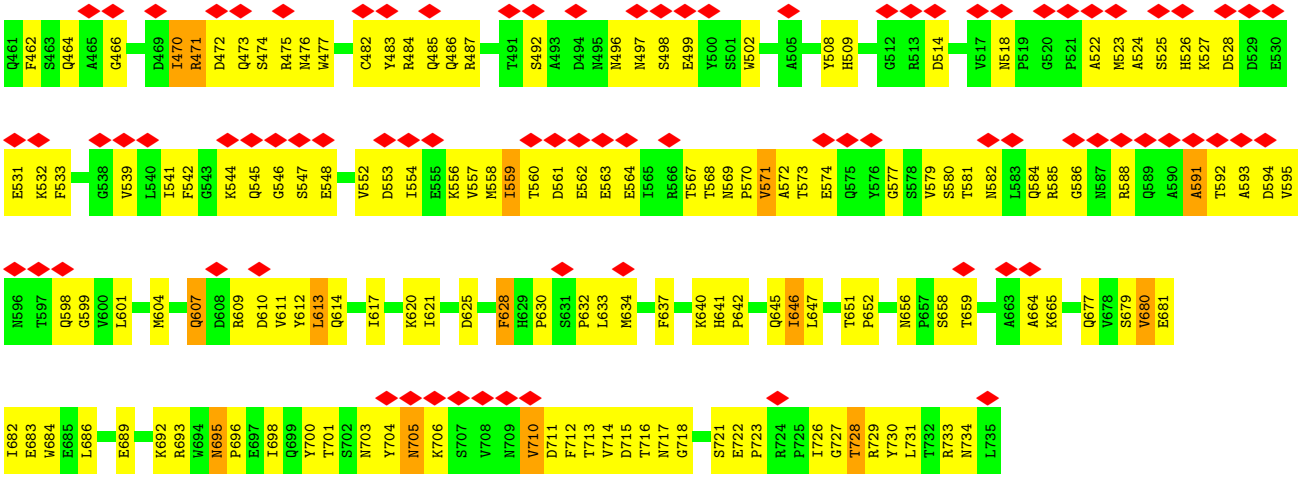


• Molecule 1: Capsid protein VP1

Chain i:

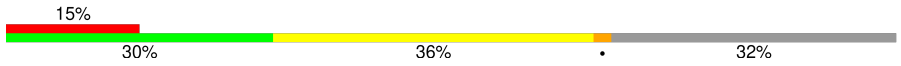


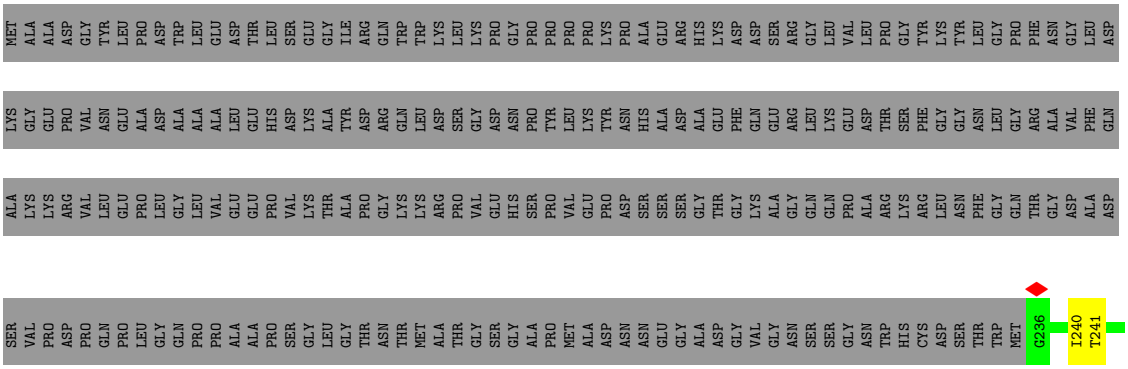


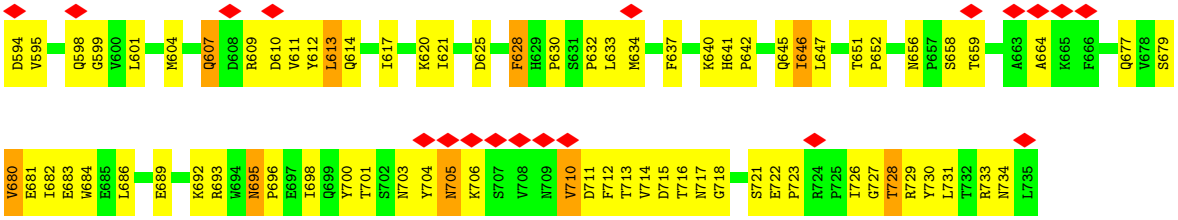


• Molecule 1: Capsid protein VP1

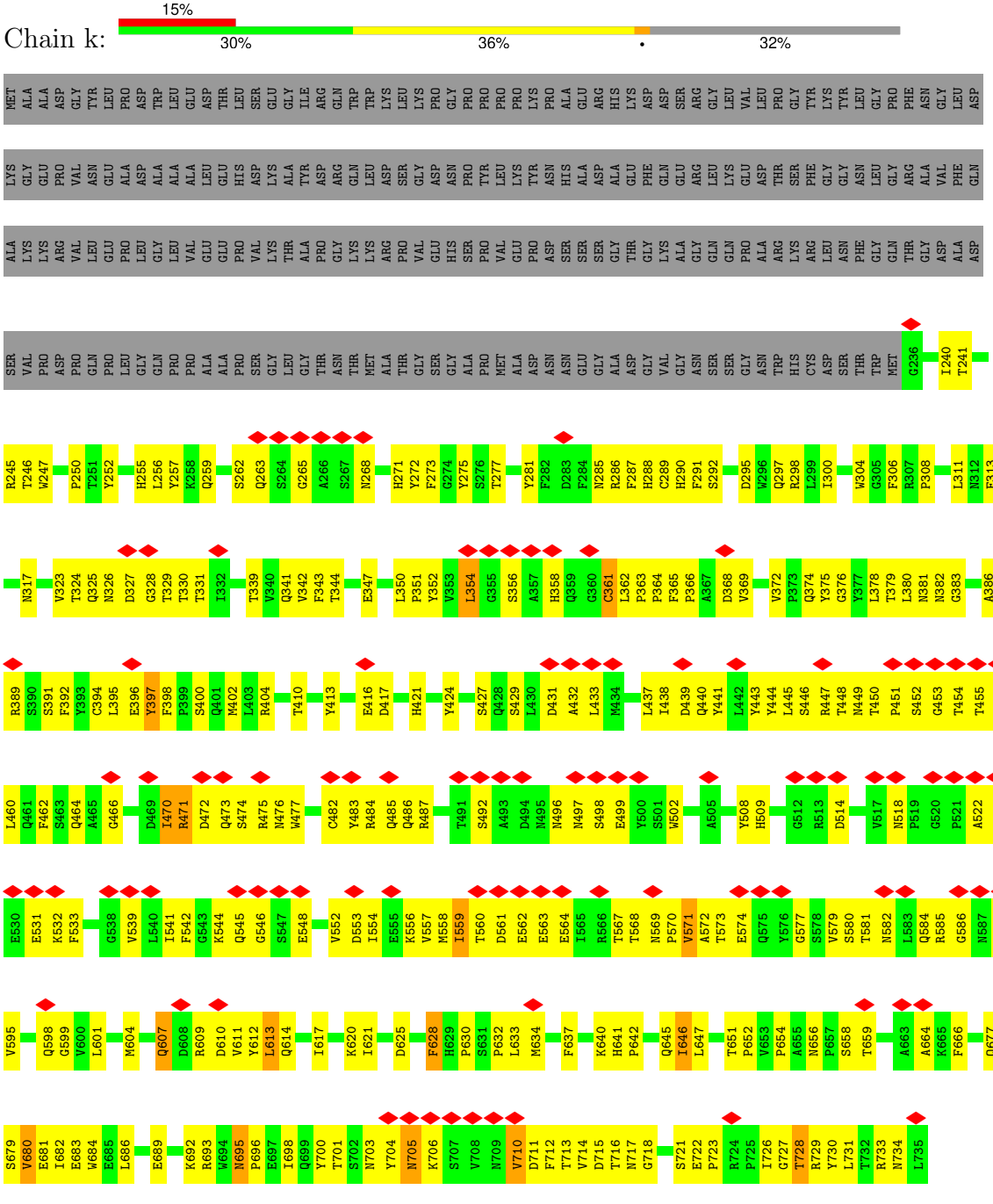
Chain j:





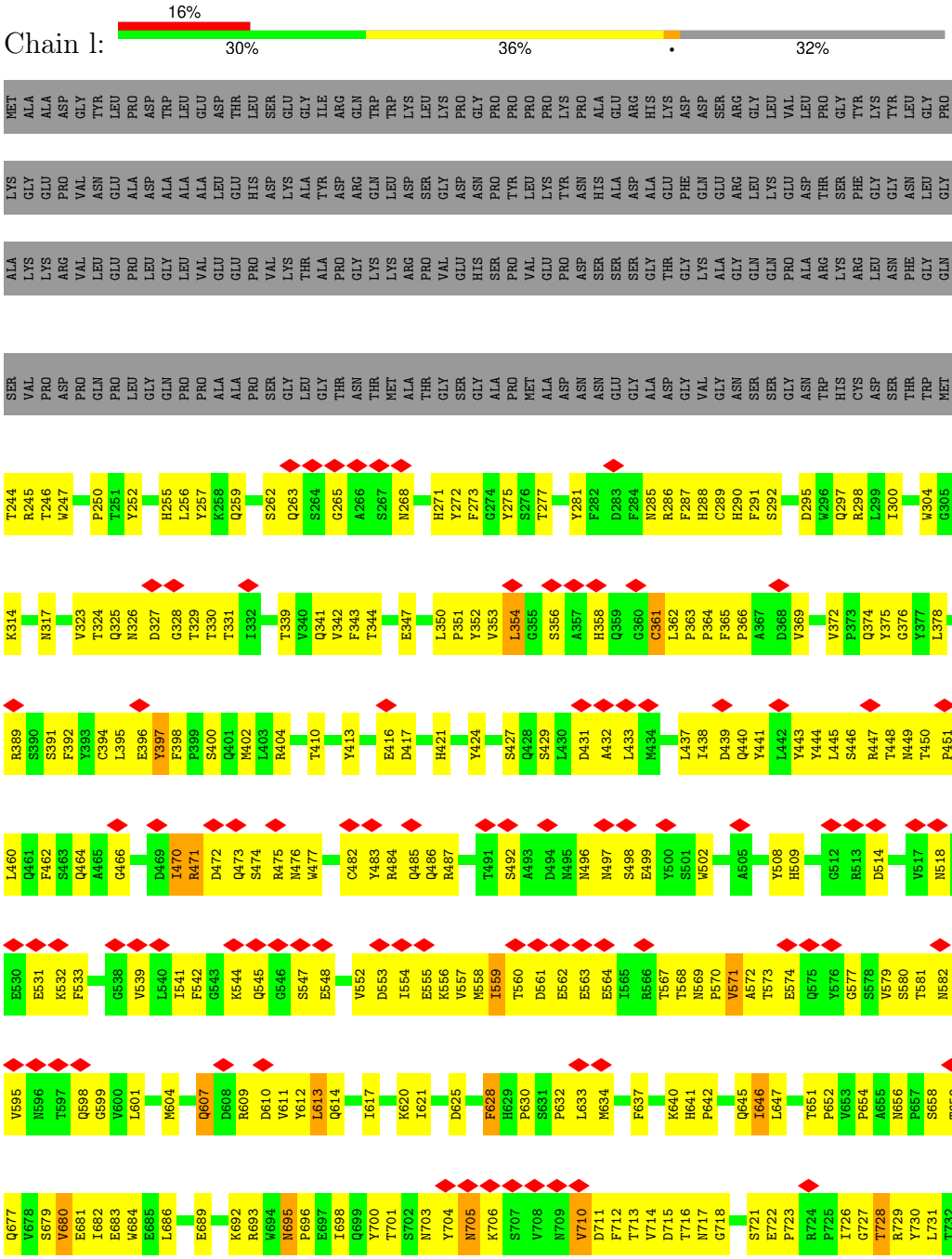


• Molecule 1: Capsid protein VP1



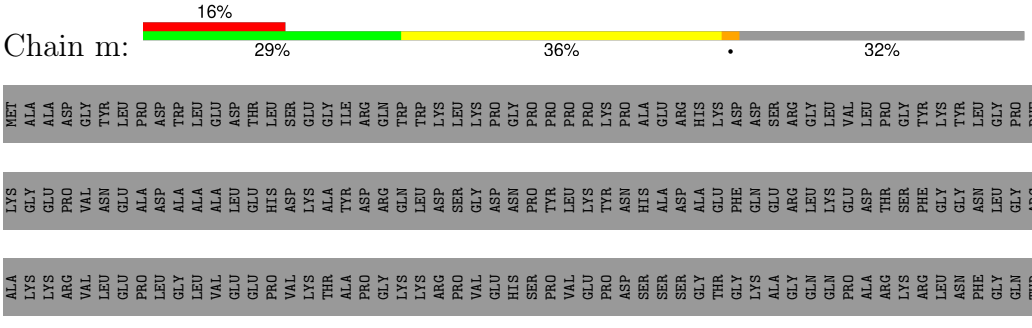
• Molecule 1: Capsid protein VP1

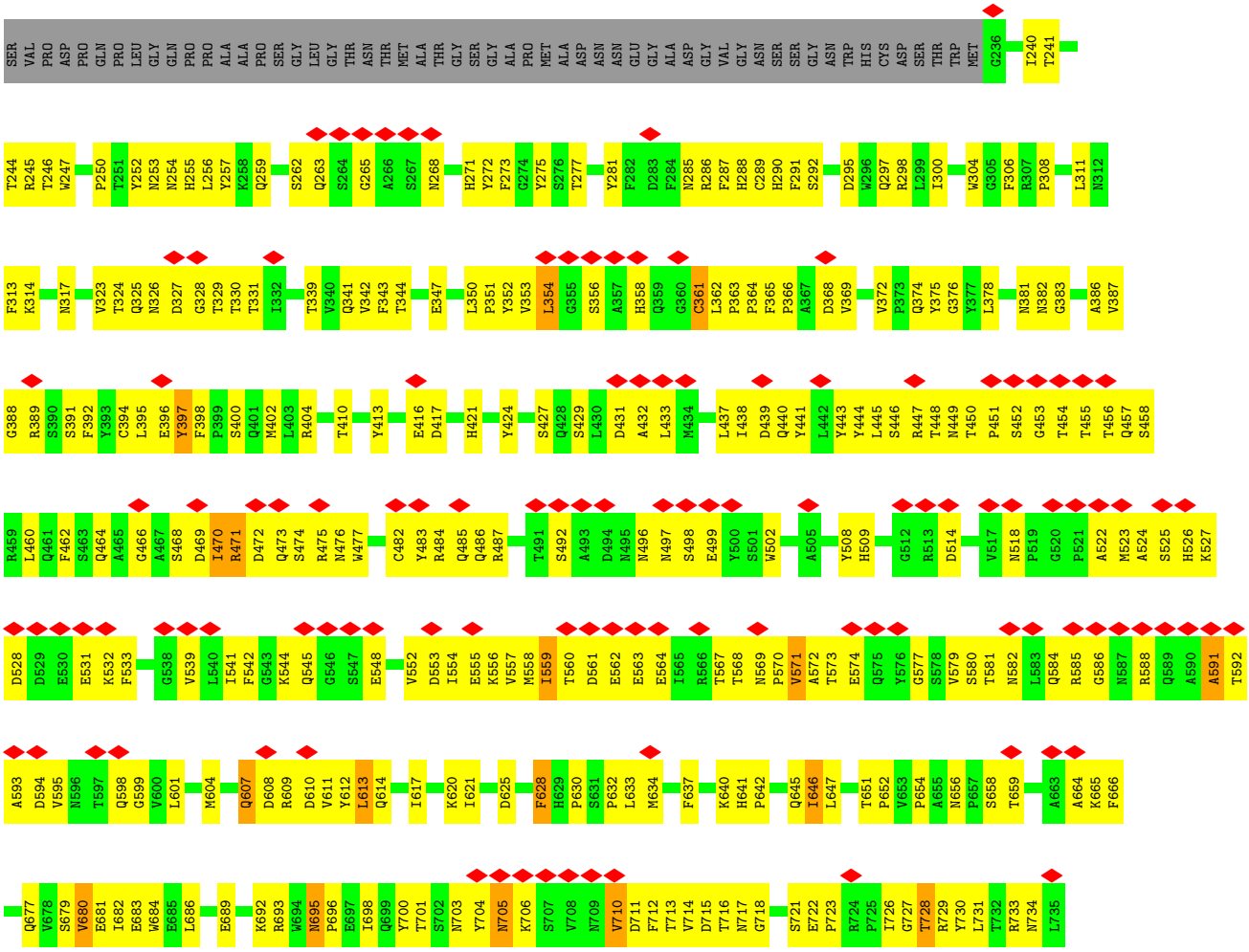
Chain l:



• Molecule 1: Capsid protein VP1

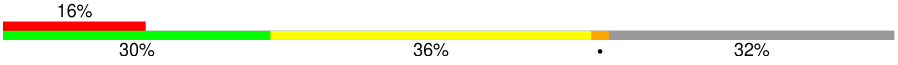
Chain m:

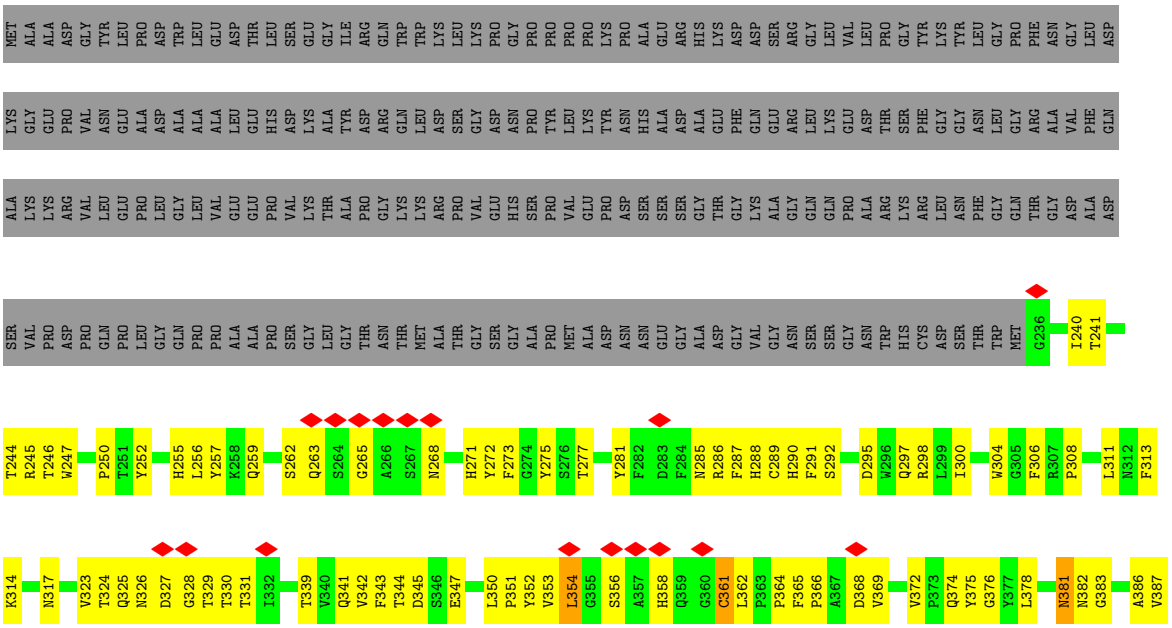


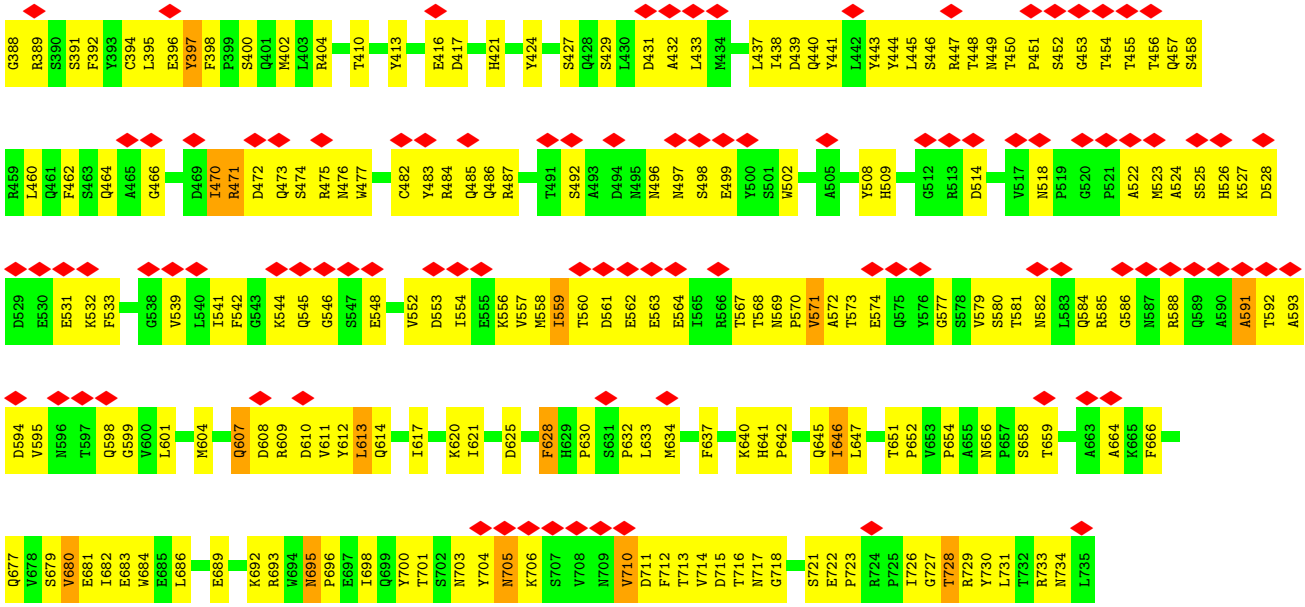


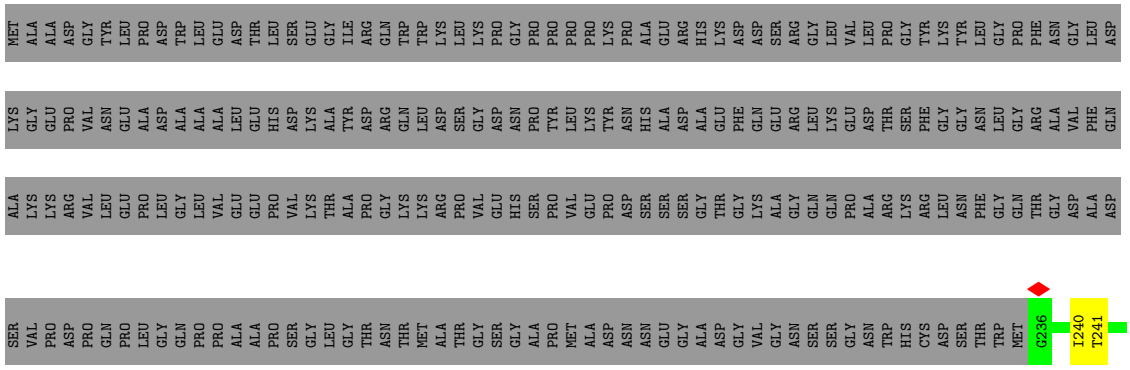
• Molecule 1: Capsid protein VP1

Chain n:



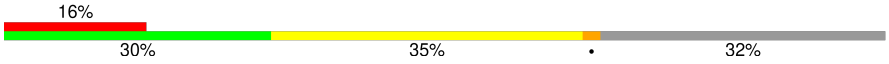


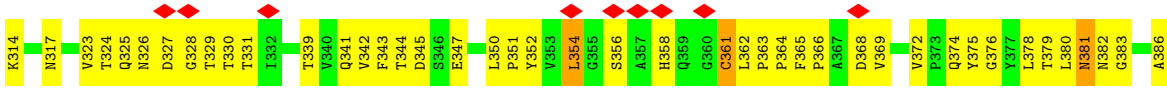


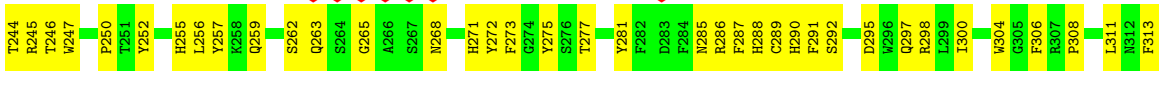


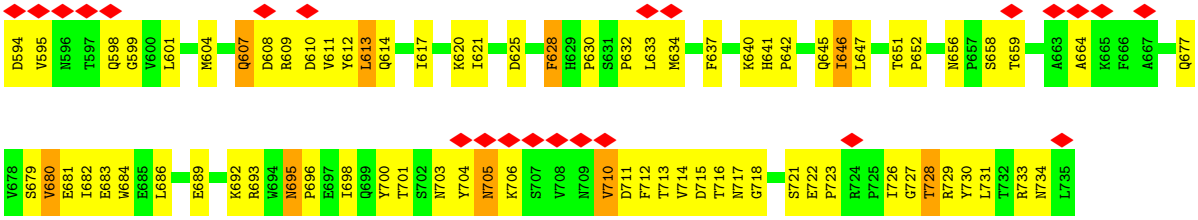
• Molecule 1: Capsid protein VP1

Chain o:

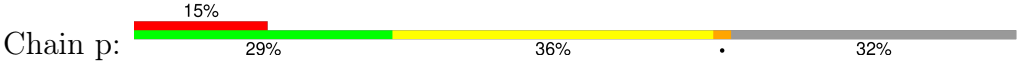


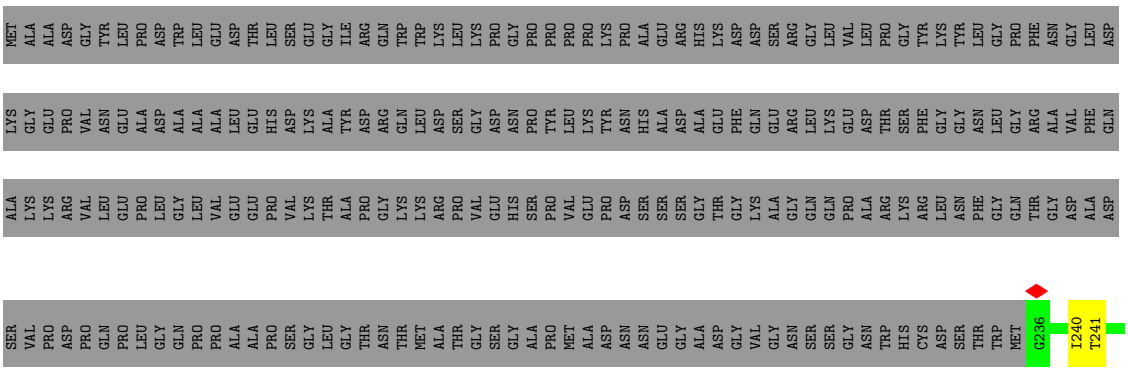


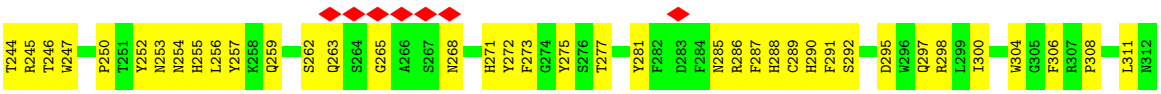


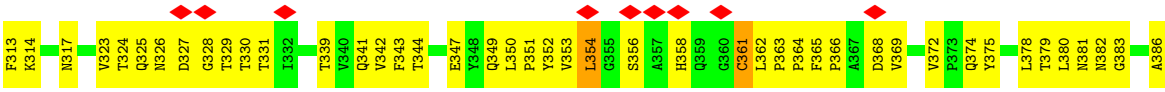


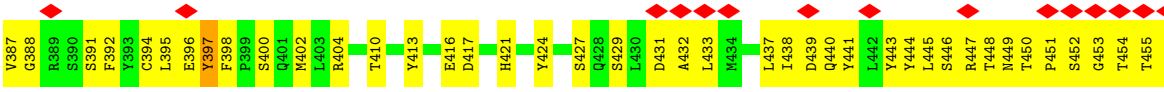
• Molecule 1: Capsid protein VP1

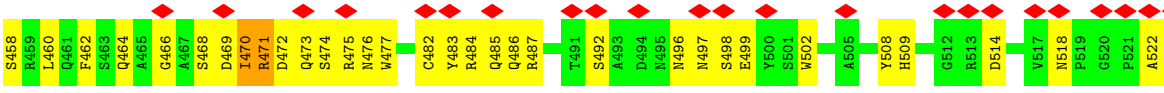


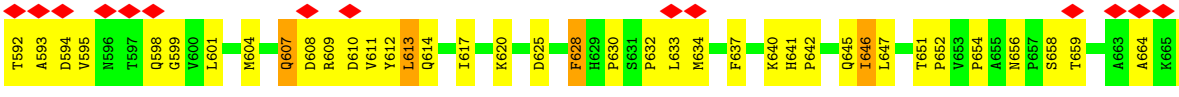


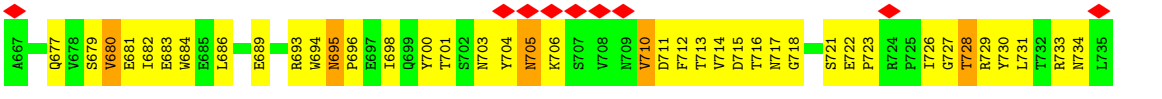






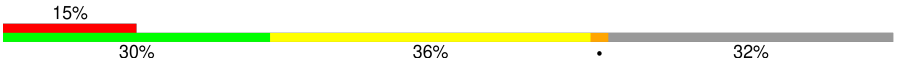


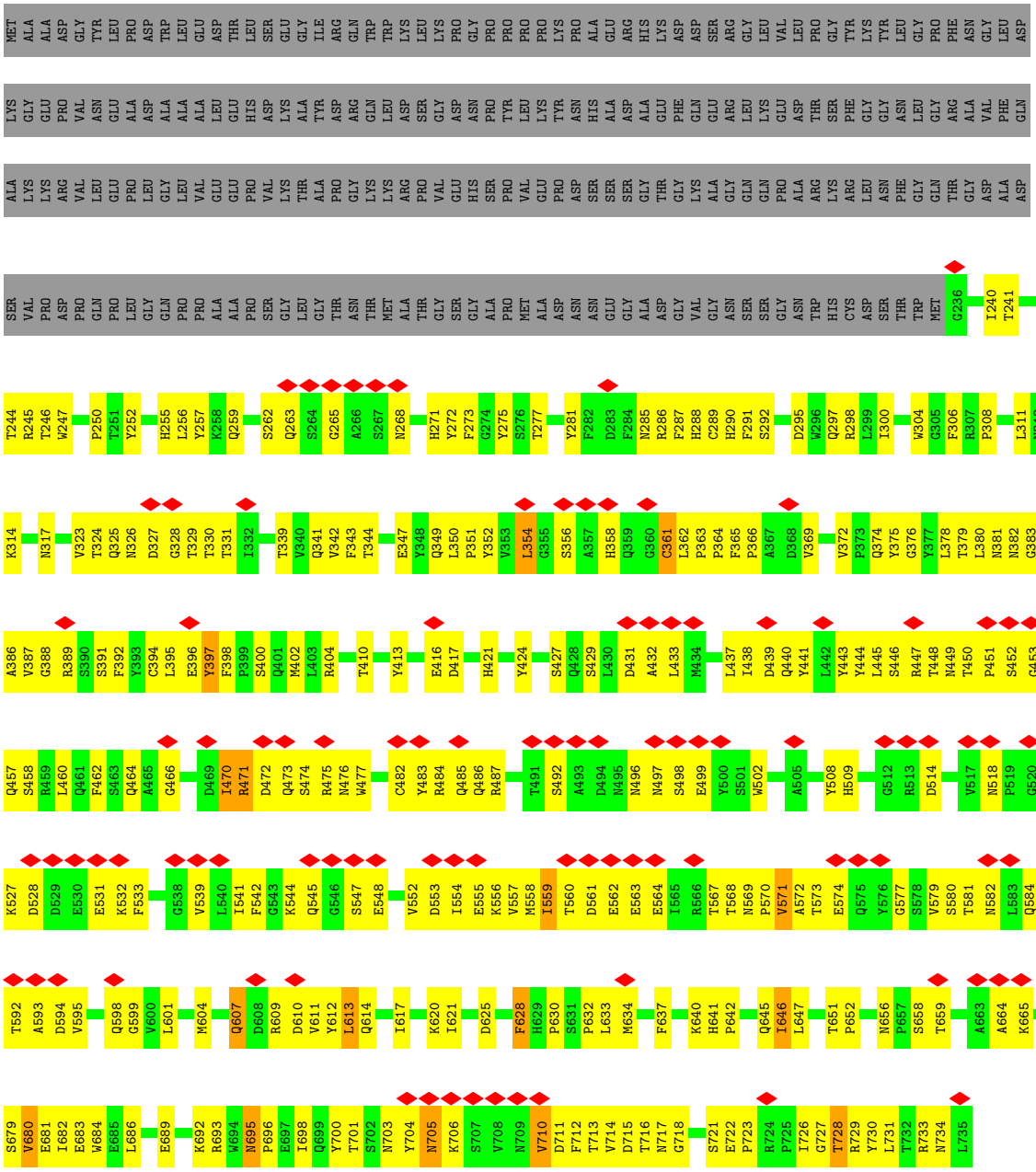




• Molecule 1: Capsid protein VP1

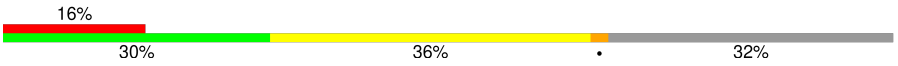
Chain q:

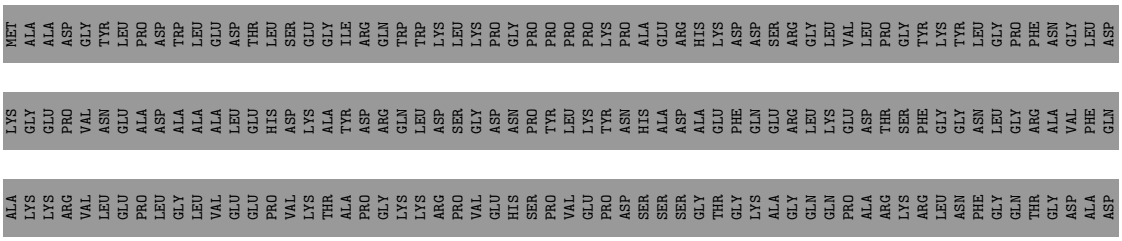


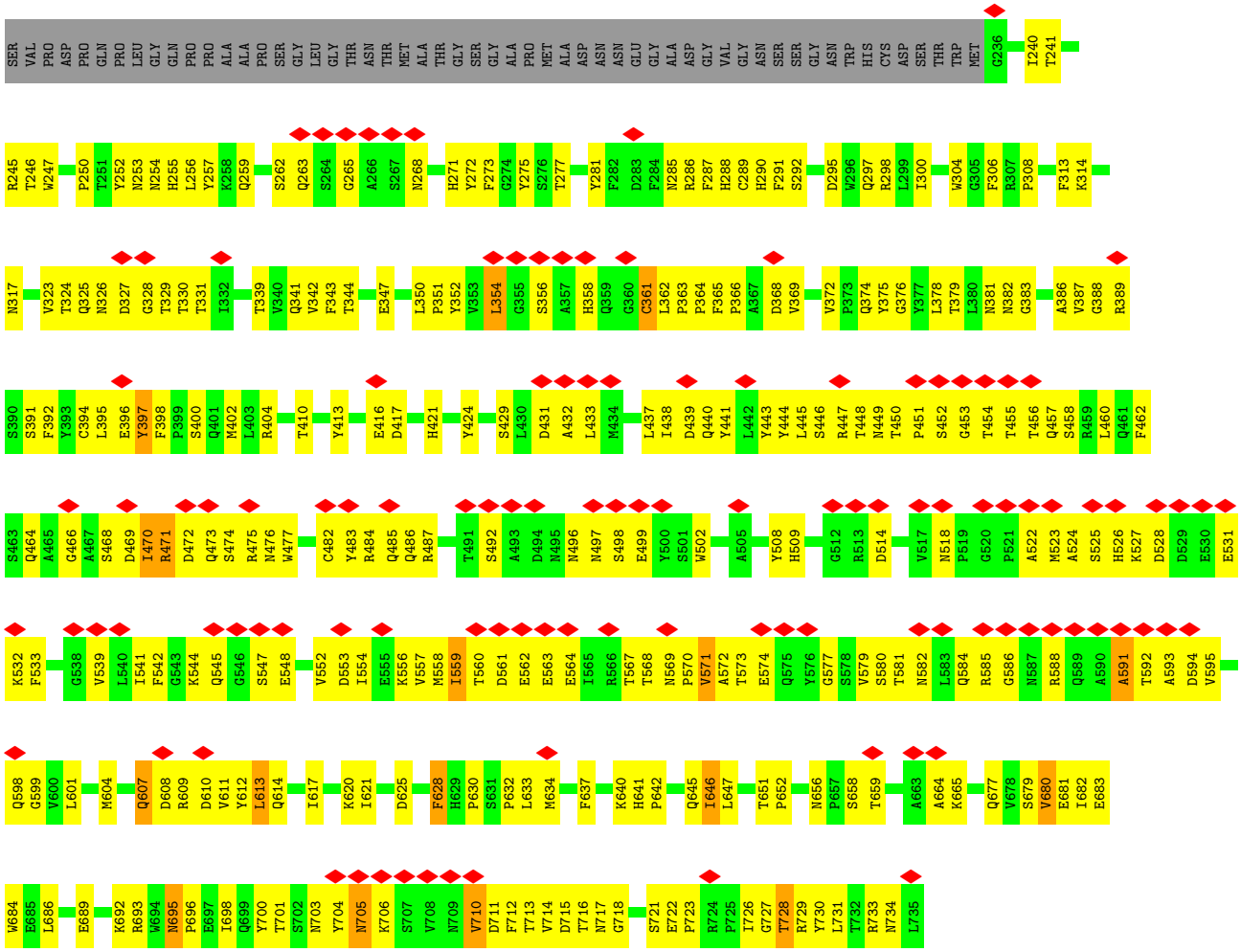


• Molecule 1: Capsid protein VP1

Chain r:

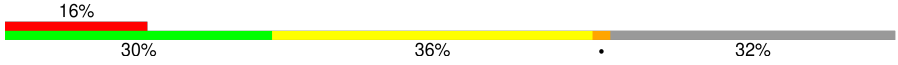


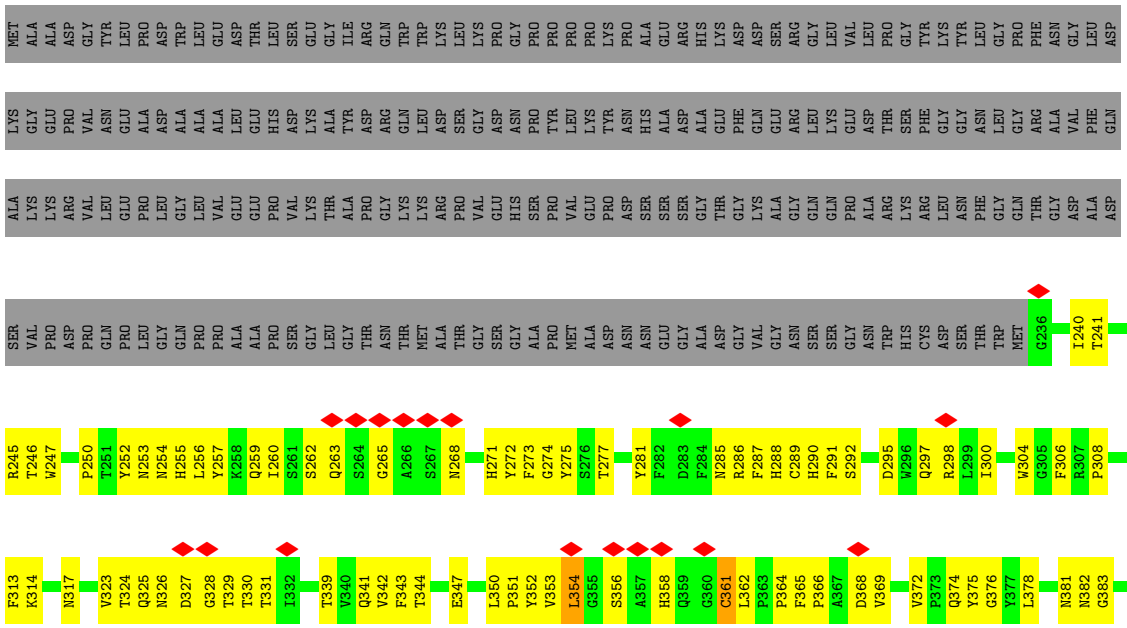


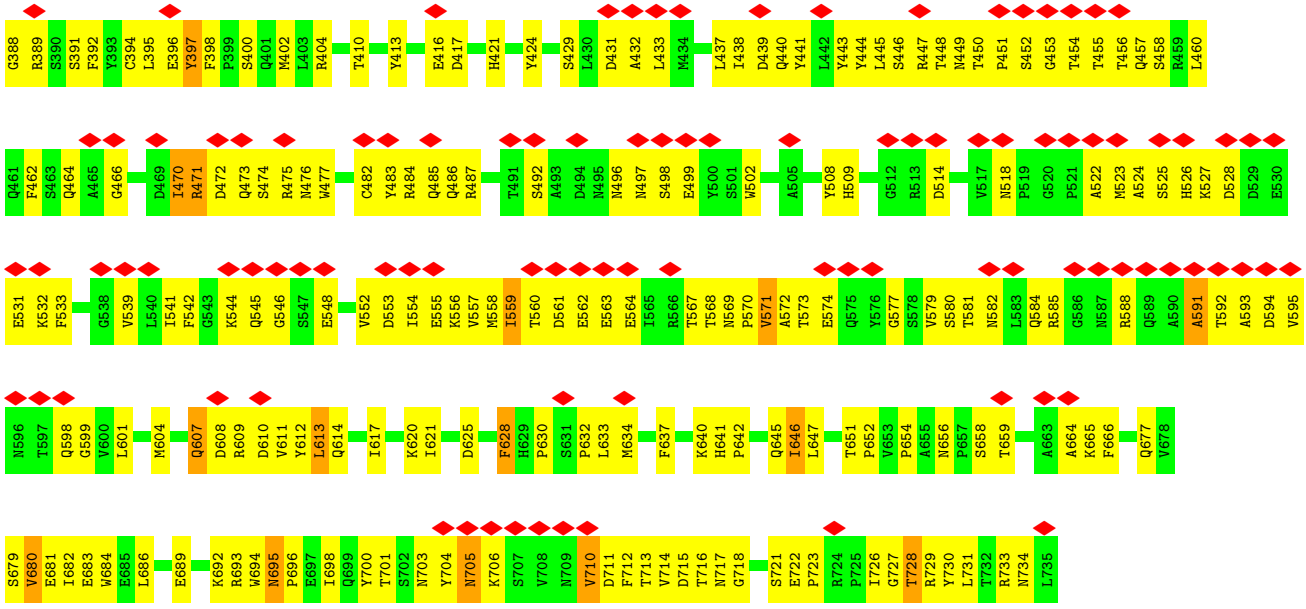


• Molecule 1: Capsid protein VP1

Chain s:

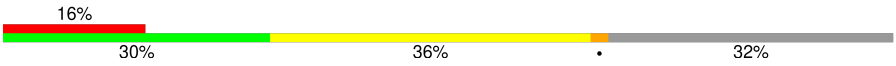


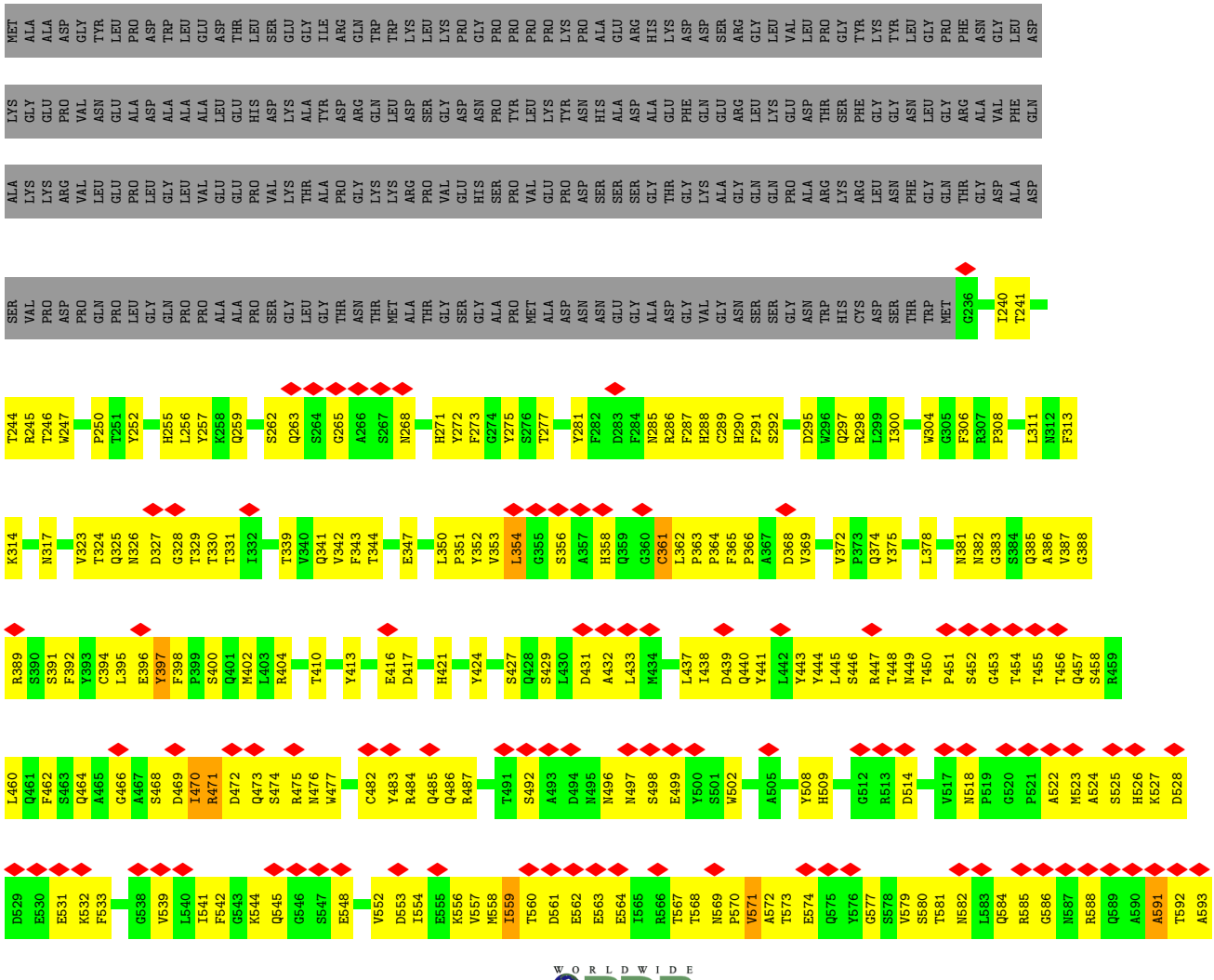


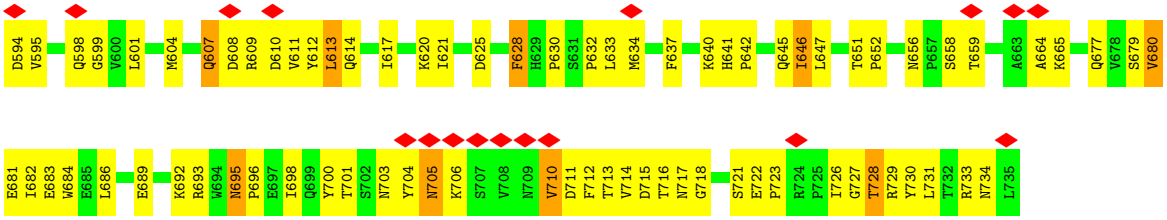


• Molecule 1: Capsid protein VP1

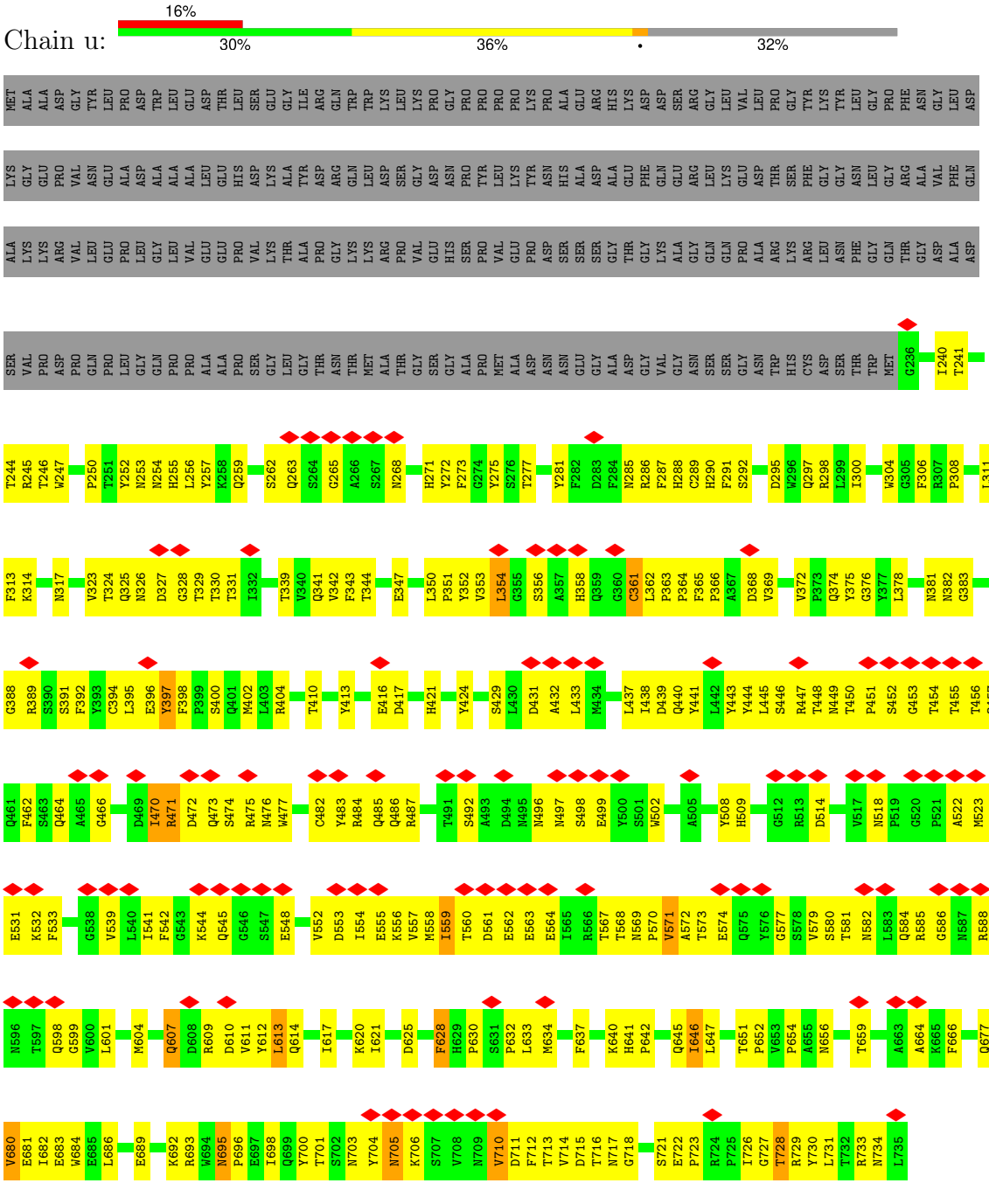
Chain t:





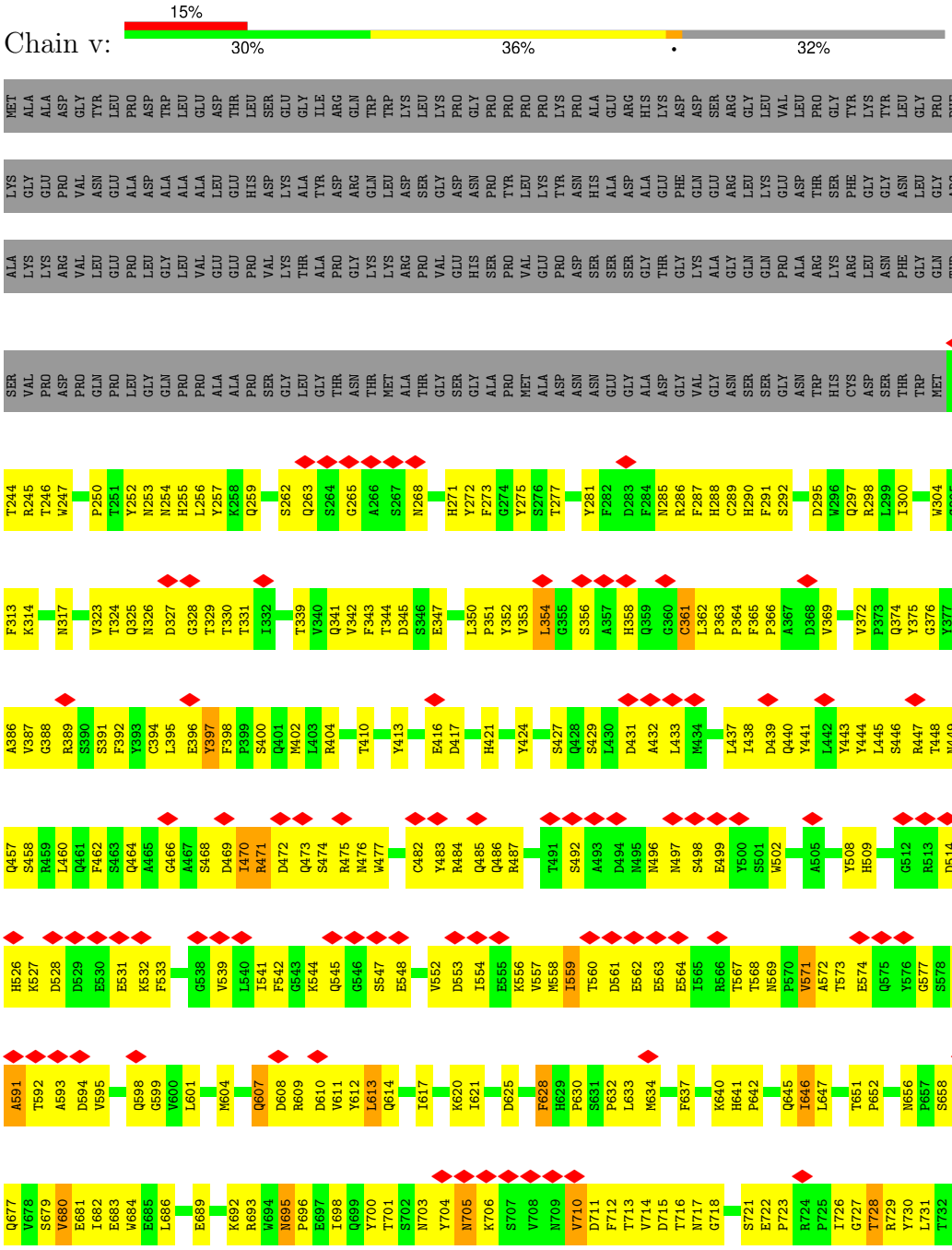


• Molecule 1: Capsid protein VP1



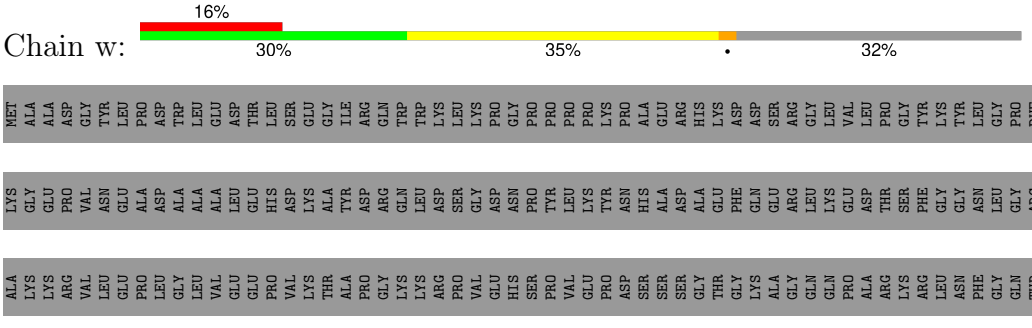
• Molecule 1: Capsid protein VP1

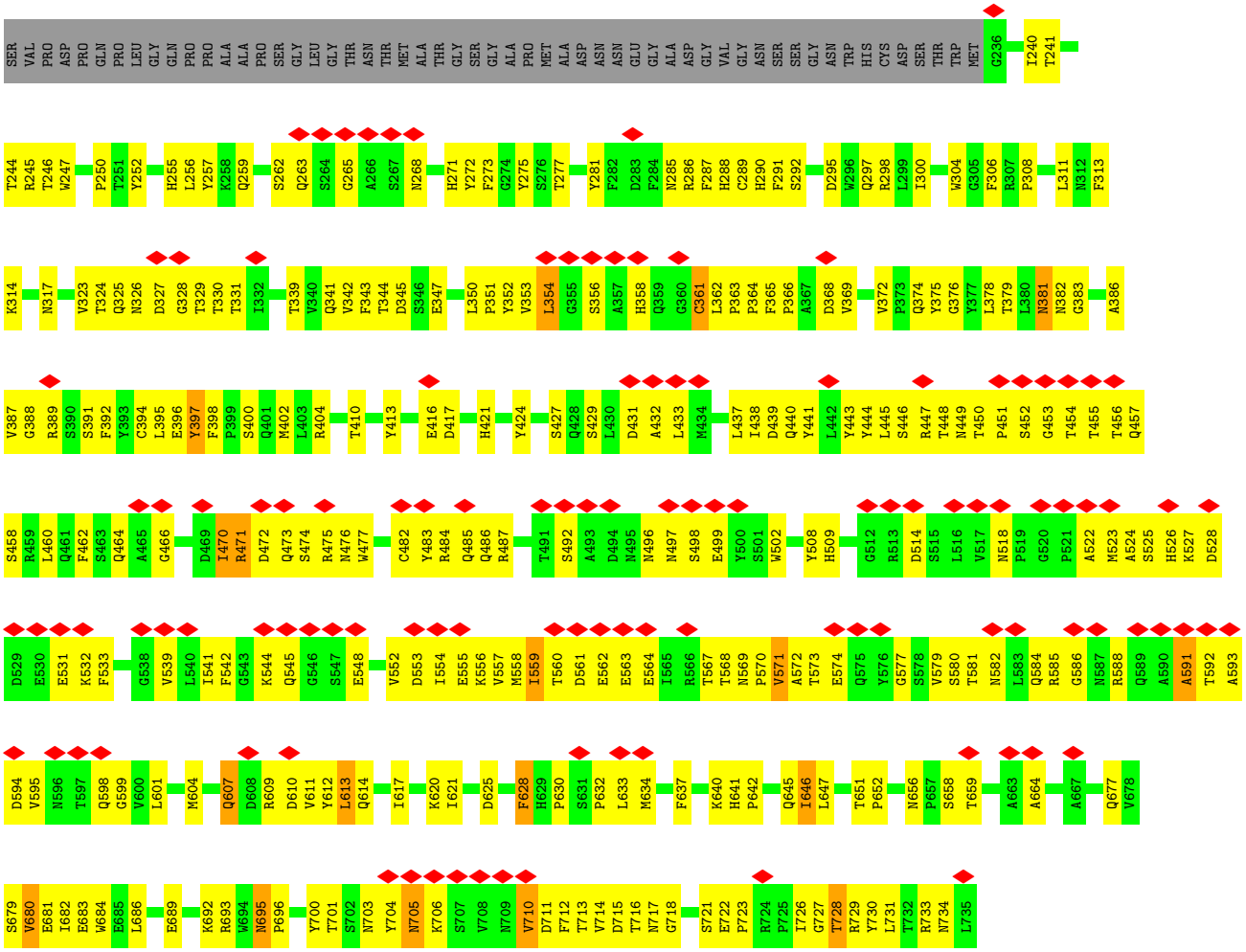
Chain v:



• Molecule 1: Capsid protein VP1

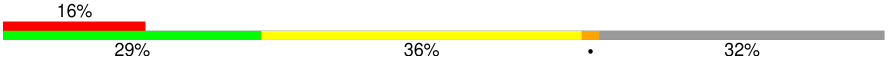
Chain w:

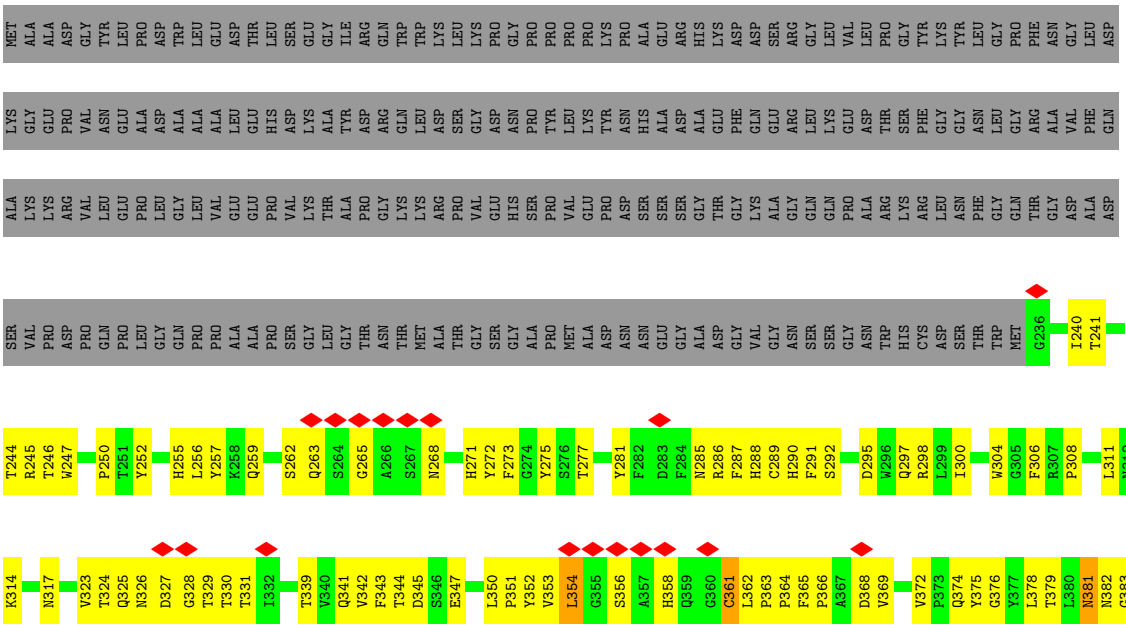


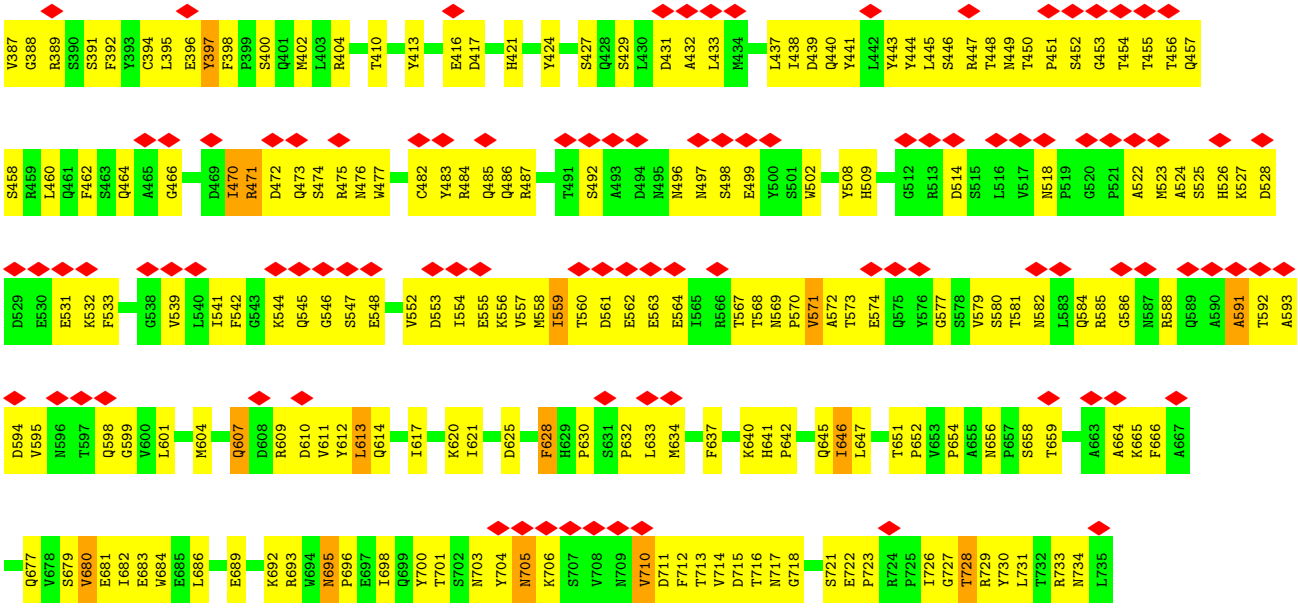


• Molecule 1: Capsid protein VP1

Chain x:

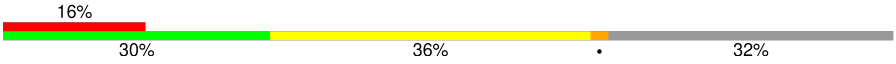


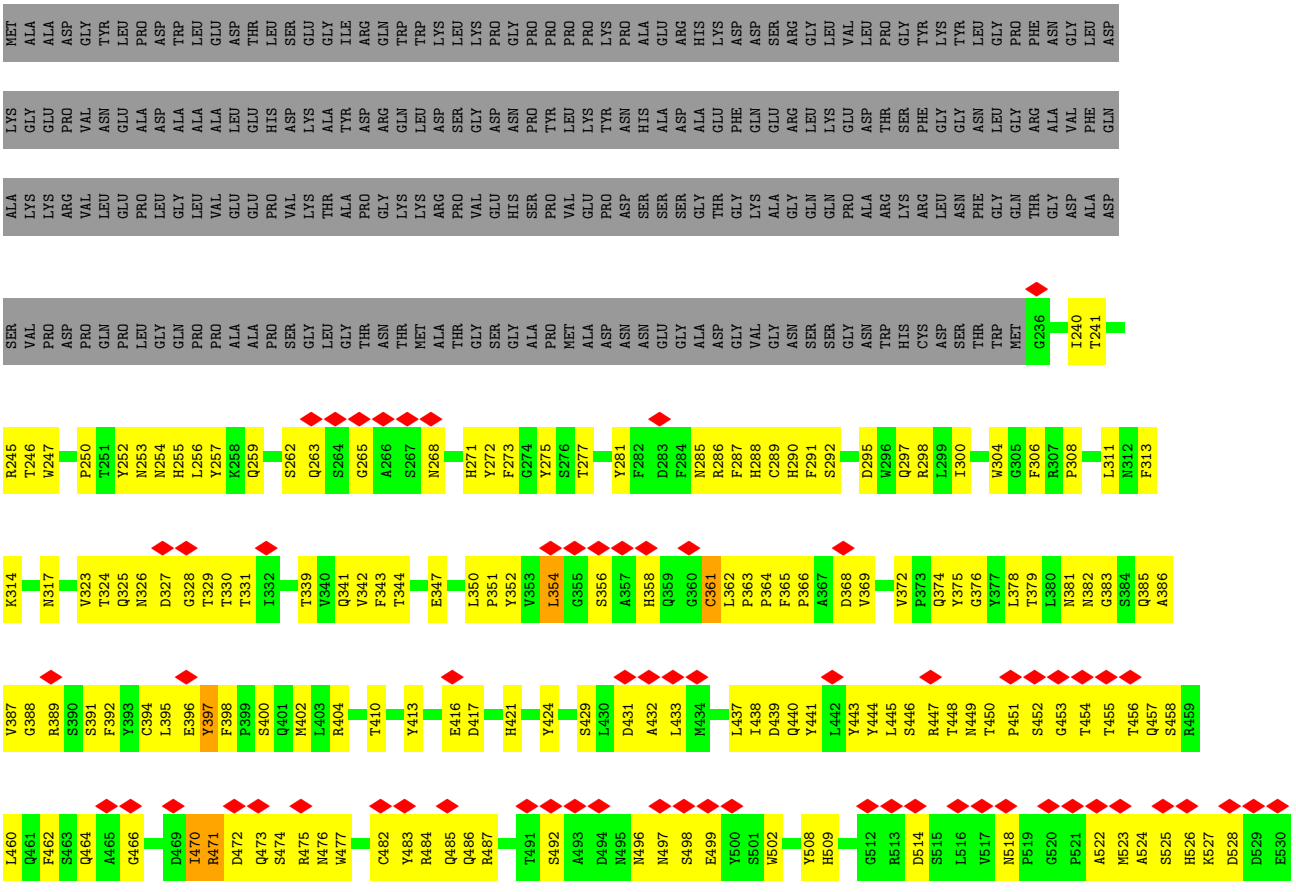


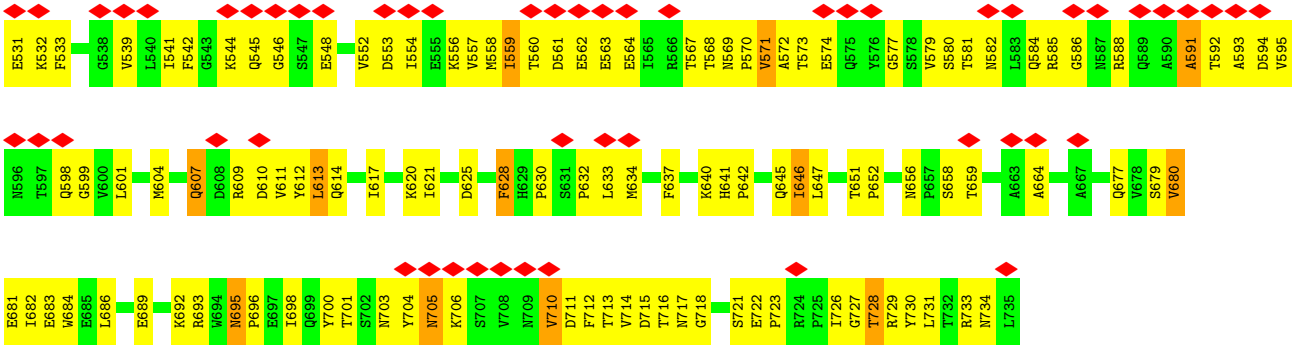


- Molecule 1: Capsid protein VP1

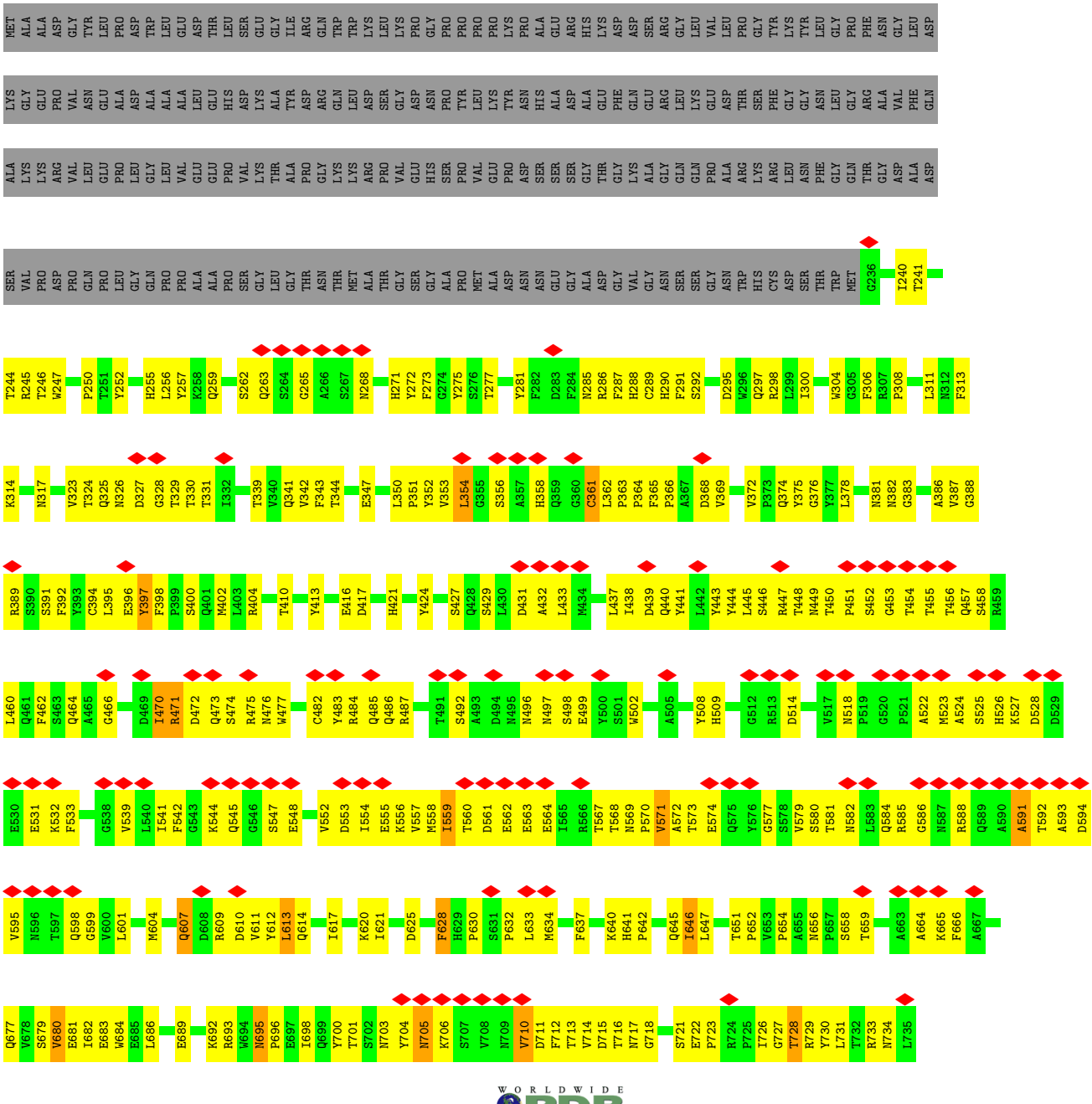
Chain y:





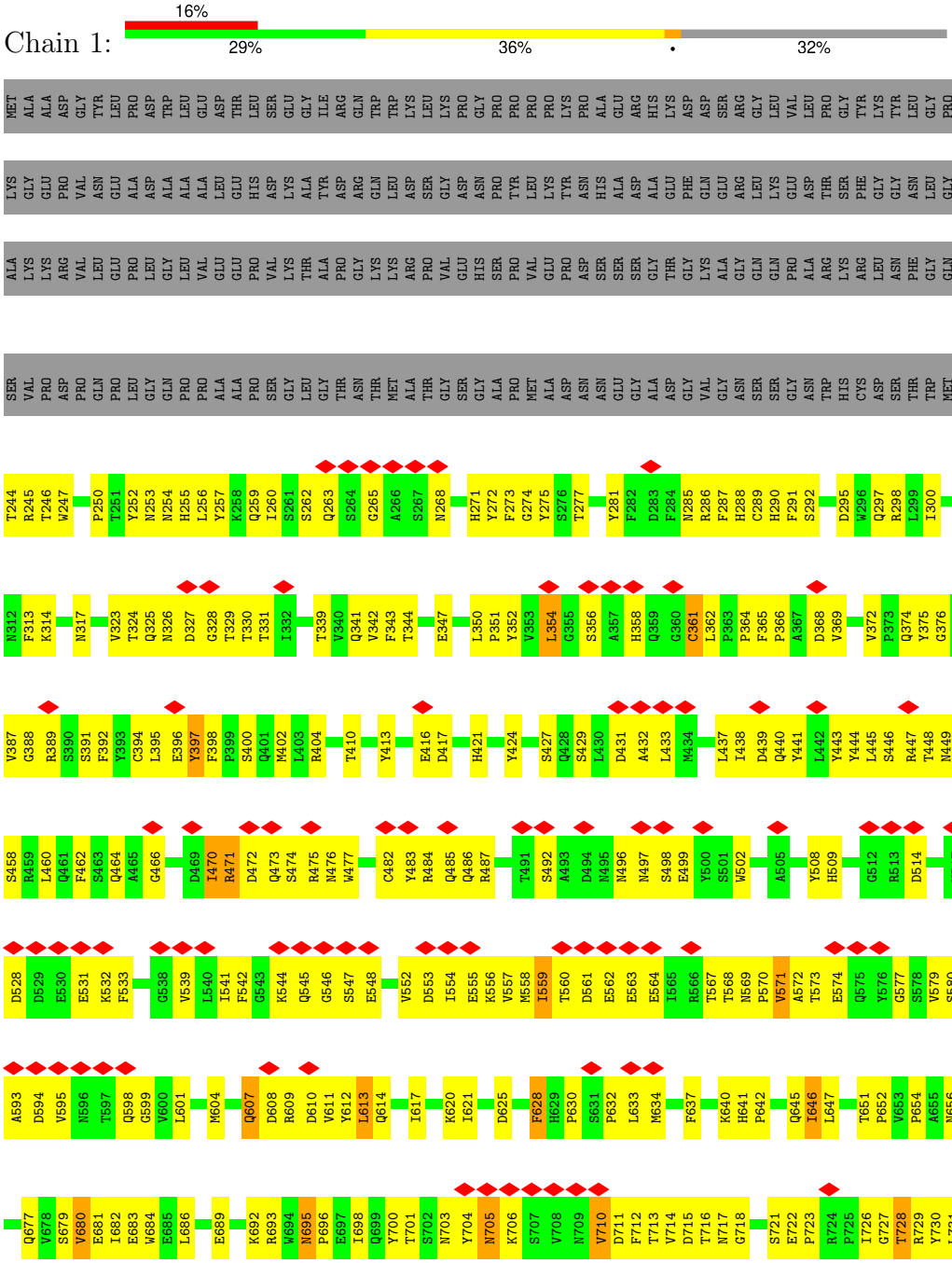


• Molecule 1: Capsid protein VP1



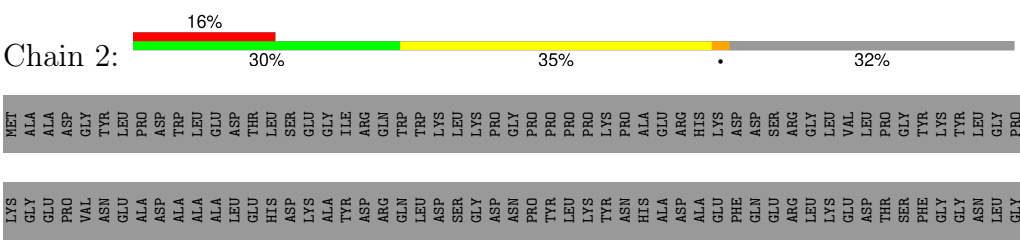
• Molecule 1: Capsid protein VP1

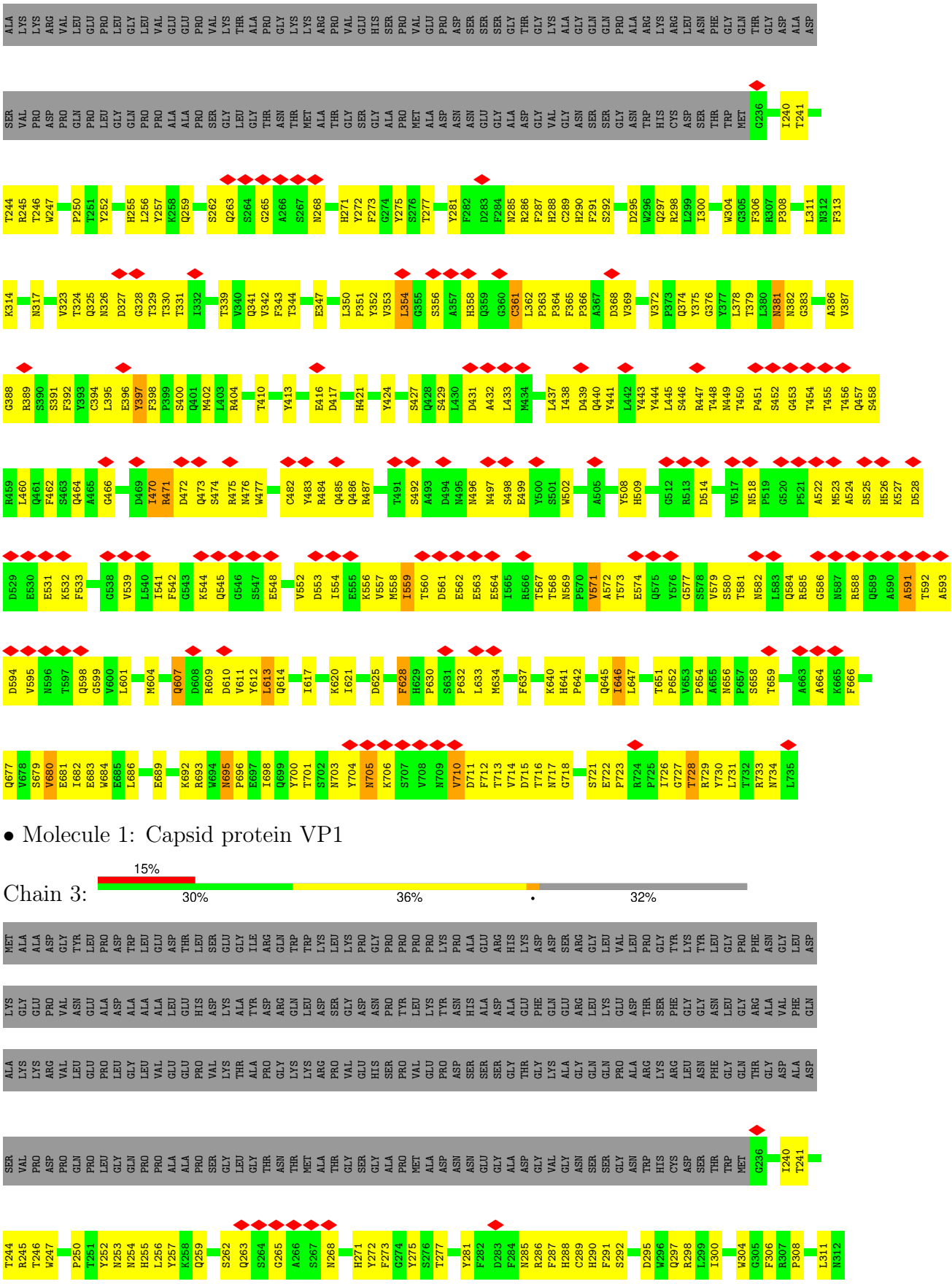
Chain 1:



• Molecule 1: Capsid protein VP1

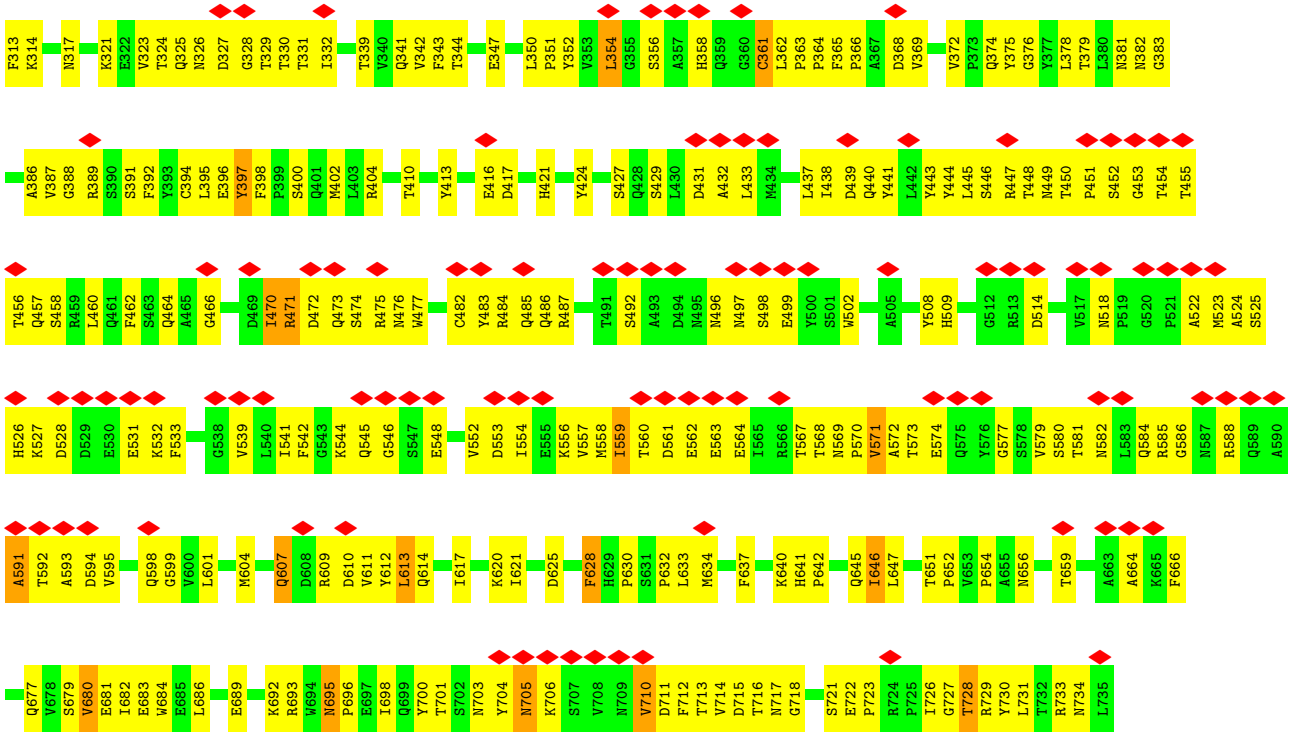
Chain 2:





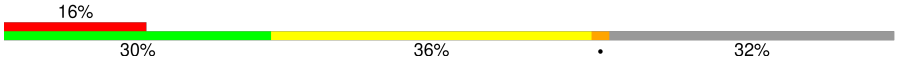
• Molecule 1: Capsid protein VP1

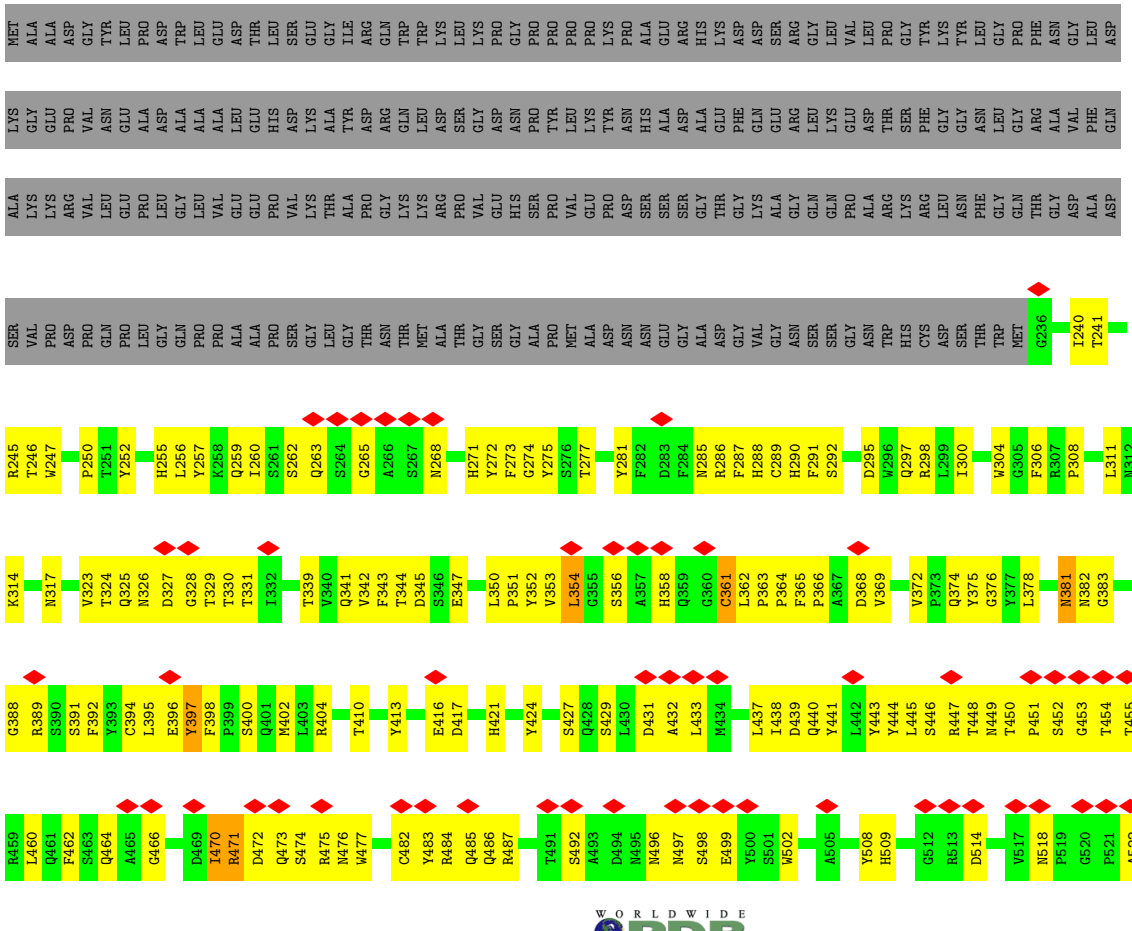
Chain 3:

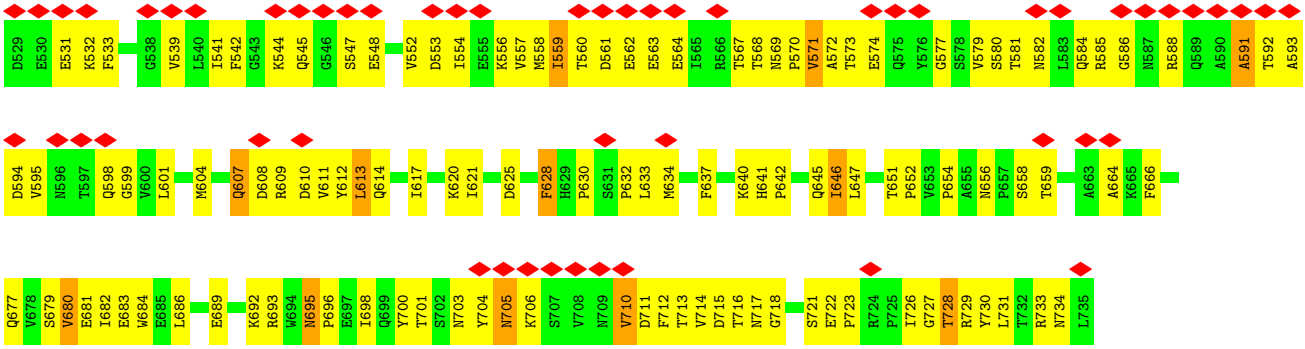


• Molecule 1: Capsid protein VP1

Chain 4:

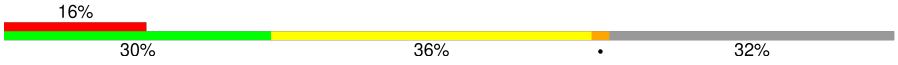


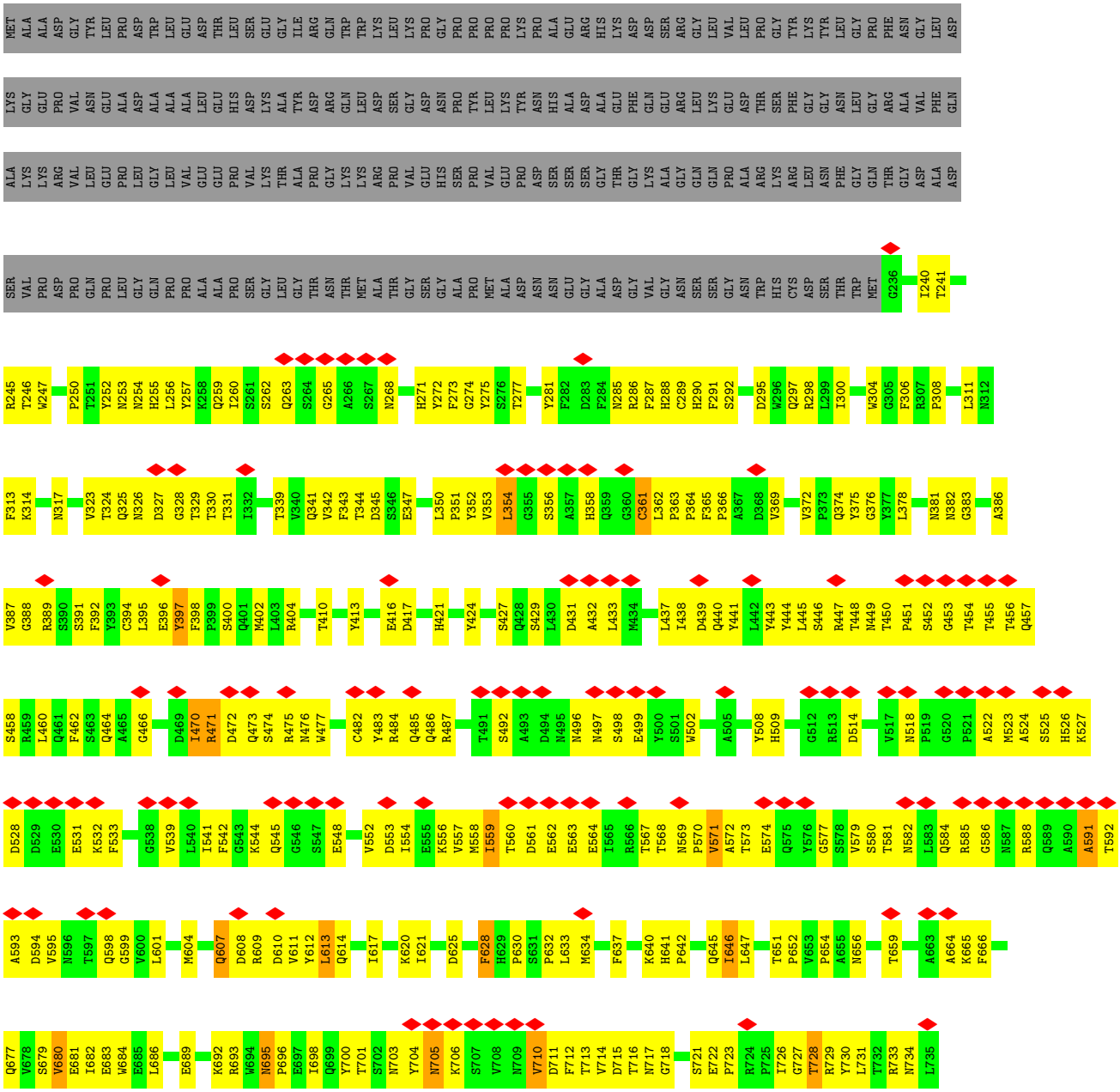




• Molecule 1: Capsid protein VP1

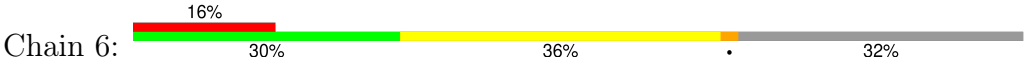
Chain 5:

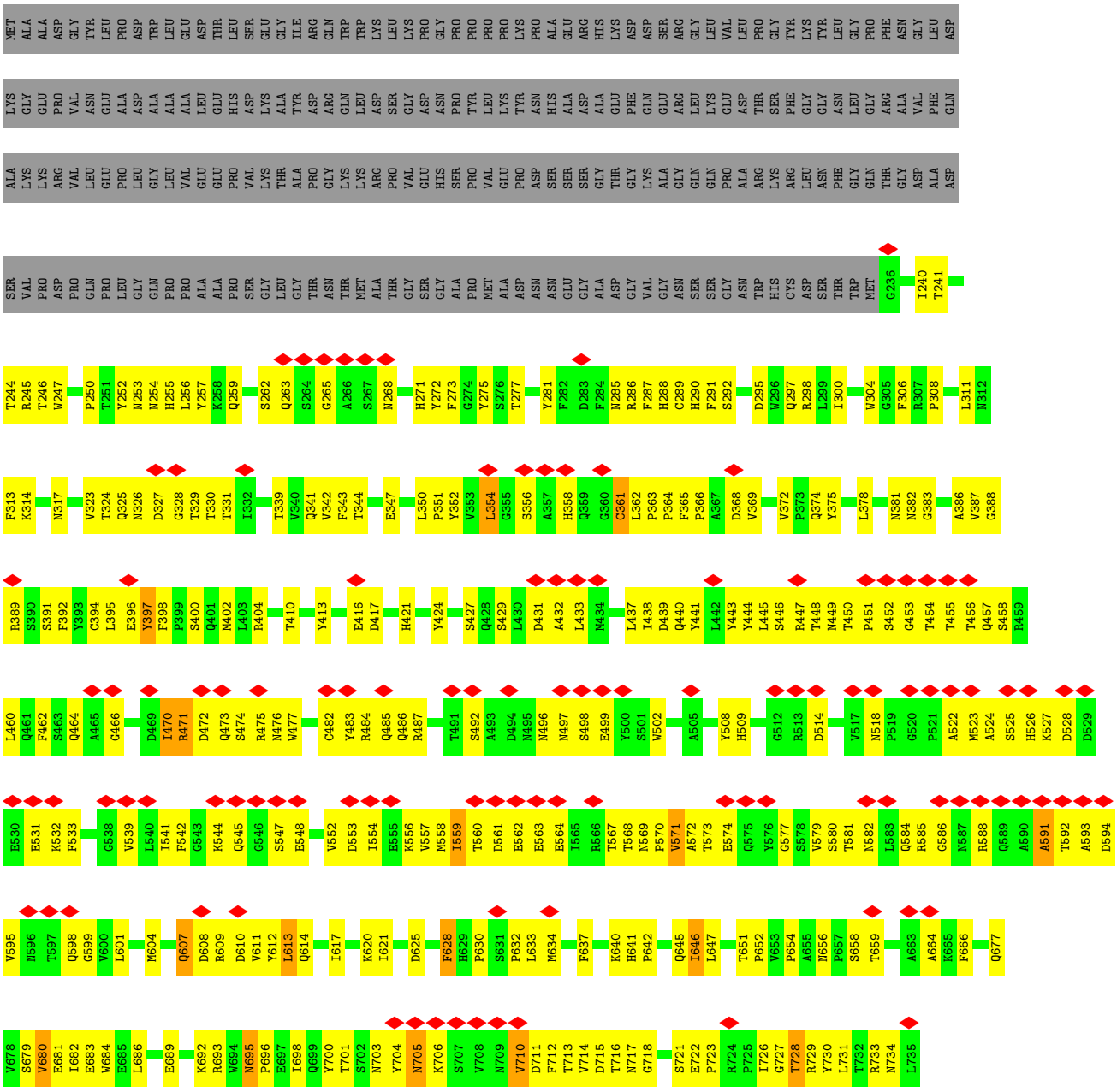




• Molecule 1: Capsid protein VP1

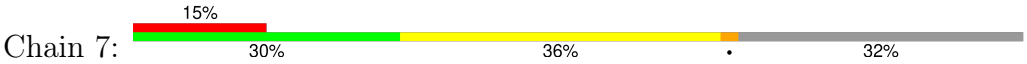
Chain 6:

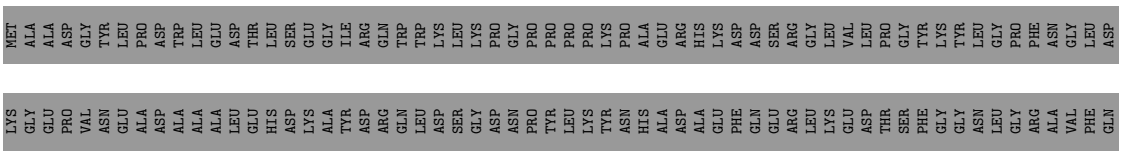


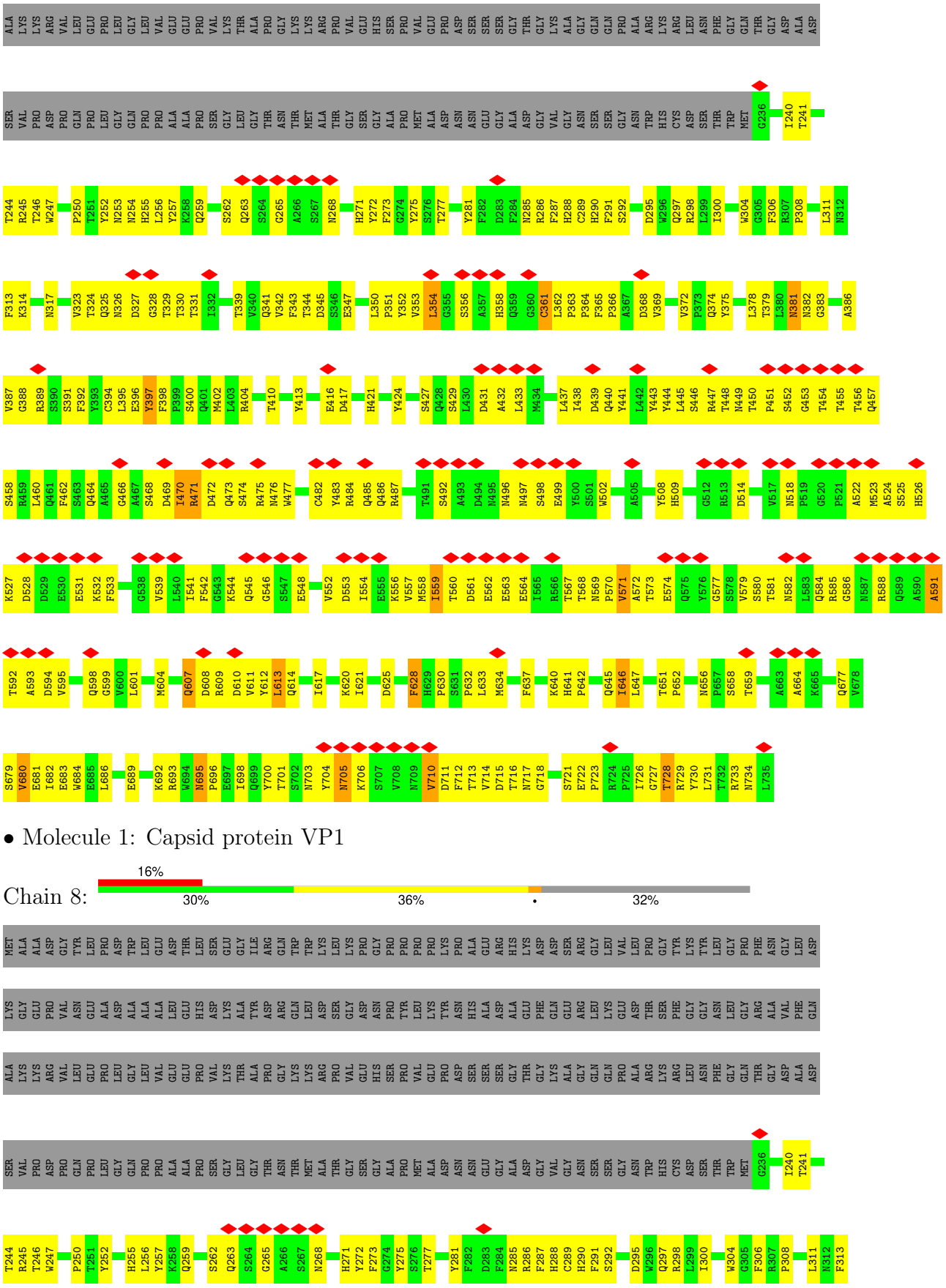


• Molecule 1: Capsid protein VP1

Chain 7:

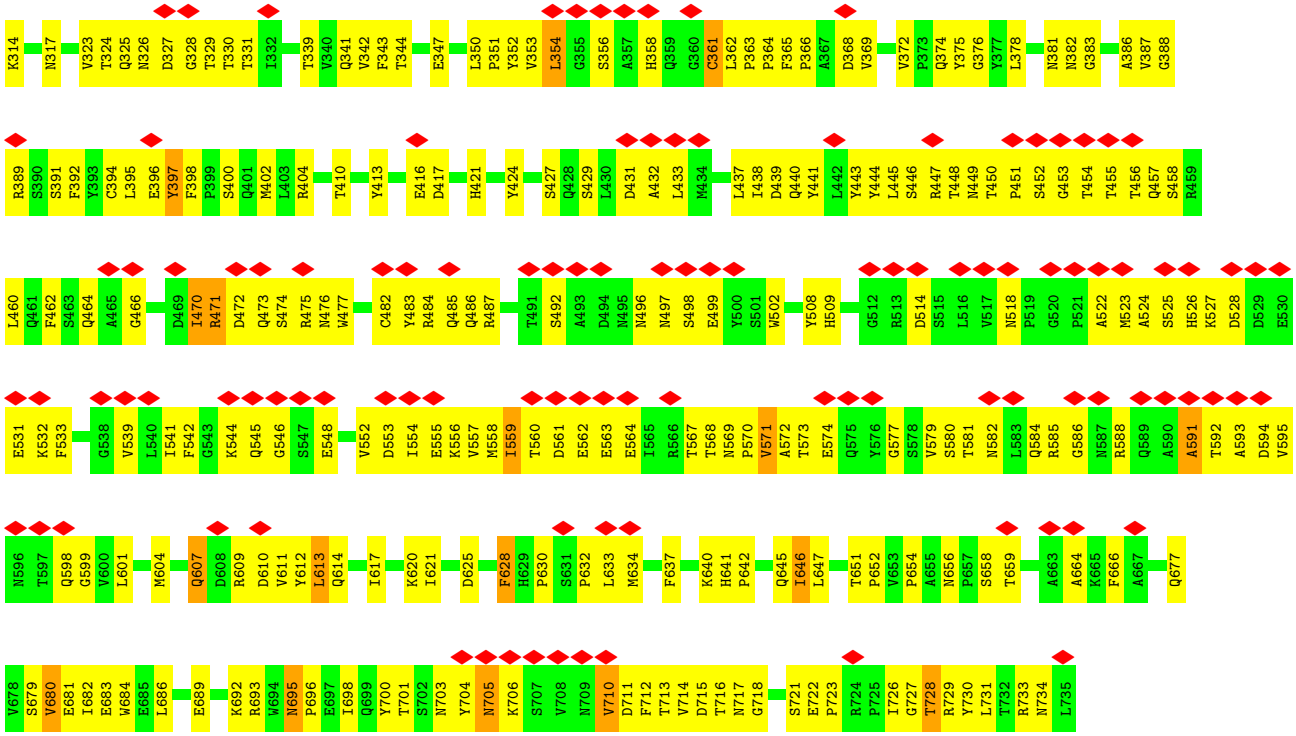






• Molecule 1: Capsid protein VP1

Chain 8: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R389 S390 S391 F392 Y393 C394 L395 E396 Y397 F398 P399 S400 Q401 M402 L403 R404 T410 Y413 E416 D417 H421 Y424 S427 Q428 S429 L430 D431 A432 L433 N434 L437 I438 D439 Q440 Y441 L442 Y443 Y444 L445 S446 R447 T448 N449 T450 P451 S452 G453 T454 T455 T456 Q457 S458 R459
L460 Q461 F462 S463 Q464 A465 G466 D469 I470 R471 D472 Q473 S474 R475 N476 W477 C482 Y483 R484 Q485 Q486 R487 T491 S492 A493 D494 N495 N496 N497 S498 E499 Y500 S501 W502 Y508 H509 G512 R513 D514 S515 L516 V517 N518 P519 G520 P521 A522 M523 A524 S525 H526 K527 D528 D529 E530
E531 K532 F533 G538 V539 L540 I541 F542 G543 K544 Q545 G546 S547 E548 V552 D553 I554 E555 K556 V557 M558 I559 T560 D561 E562 E563 E564 I565 R566 T567 T568 N569 P570 V571 A572 T573 E574 Q575 Y576 G577 S578 V579 S580 T581 N582 L583 Q584 R585 G586 N587 R588 Q589 A590 A591 T592 A593 D594 V595
N596 T597 Q598 G599 V600 L601 M604 Q607 D608 R609 D610 V611 Y612 L613 Q614 I617 K620 I621 D625 F628 H629 P630 S631 P632 L633 M634 F637 K640 H641 P642 Q645 I646 L647 T651 P652 V653 P654 A655 N656 P657 S658 T659 A663 A664 K665 F666 A667 Q677
V678 S679 V680 E681 I682 E683 W684 E685 L686 E689 K692 R693 W694 N695 P696 E697 I698 Q699 Y700 T701 S702 N703 Y704 N705 K706 S707 V708 N709 V710 D711 F712 T713 V714 D715 T716 N717 G718 S721 E722 P723 R724 P725 I726 G727 T728 R729 Y730 L731 T732 R733 N734 L735

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	19457	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	20	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3200	Depositor
Magnification	56924	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	14.966	Depositor
Minimum map value	-6.175	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.9	Depositor
Map size (Å)	361.9, 361.9, 361.9	wwPDB
Map dimensions	329, 329, 329	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.1, 1.1, 1.1	Depositor

5 Model quality

5.1 Standard geometry

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	0.51	0/4127	0.83	5/5626 (0.1%)
1	2	0.51	0/4127	0.83	5/5626 (0.1%)
1	3	0.51	0/4127	0.83	5/5626 (0.1%)
1	4	0.51	0/4127	0.83	5/5626 (0.1%)
1	5	0.51	0/4127	0.83	5/5626 (0.1%)
1	6	0.51	0/4127	0.83	5/5626 (0.1%)
1	7	0.51	0/4127	0.83	5/5626 (0.1%)
1	8	0.51	0/4127	0.83	5/5626 (0.1%)
1	A	0.51	0/4127	0.83	5/5626 (0.1%)
1	B	0.51	0/4127	0.83	5/5626 (0.1%)
1	C	0.51	0/4127	0.83	5/5626 (0.1%)
1	D	0.51	0/4127	0.83	5/5626 (0.1%)
1	E	0.51	0/4127	0.83	5/5626 (0.1%)
1	F	0.51	0/4127	0.83	5/5626 (0.1%)
1	G	0.51	0/4127	0.83	5/5626 (0.1%)
1	H	0.51	0/4127	0.83	5/5626 (0.1%)
1	I	0.51	0/4127	0.83	5/5626 (0.1%)
1	J	0.51	0/4127	0.83	5/5626 (0.1%)
1	K	0.51	0/4127	0.83	5/5626 (0.1%)
1	L	0.51	0/4127	0.83	5/5626 (0.1%)
1	M	0.51	0/4127	0.83	5/5626 (0.1%)
1	N	0.51	0/4127	0.83	5/5626 (0.1%)
1	O	0.51	0/4127	0.83	5/5626 (0.1%)
1	P	0.51	0/4127	0.83	5/5626 (0.1%)
1	Q	0.51	0/4127	0.83	5/5626 (0.1%)
1	R	0.51	0/4127	0.83	5/5626 (0.1%)
1	S	0.51	0/4127	0.83	5/5626 (0.1%)
1	T	0.51	0/4127	0.83	5/5626 (0.1%)
1	U	0.51	0/4127	0.83	5/5626 (0.1%)
1	V	0.51	0/4127	0.83	5/5626 (0.1%)
1	W	0.51	0/4127	0.83	5/5626 (0.1%)
1	X	0.51	0/4127	0.83	5/5626 (0.1%)
1	Y	0.51	0/4127	0.83	5/5626 (0.1%)
1	Z	0.51	0/4127	0.83	5/5626 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	a	0.51	0/4127	0.83	5/5626 (0.1%)
1	b	0.51	0/4127	0.83	5/5626 (0.1%)
1	c	0.51	0/4127	0.83	5/5626 (0.1%)
1	d	0.51	0/4127	0.83	5/5626 (0.1%)
1	e	0.51	0/4127	0.83	5/5626 (0.1%)
1	f	0.51	0/4127	0.83	5/5626 (0.1%)
1	g	0.51	0/4127	0.83	5/5626 (0.1%)
1	h	0.51	0/4127	0.83	5/5626 (0.1%)
1	i	0.51	0/4127	0.83	5/5626 (0.1%)
1	j	0.51	0/4127	0.83	5/5626 (0.1%)
1	k	0.51	0/4127	0.83	5/5626 (0.1%)
1	l	0.51	0/4127	0.83	5/5626 (0.1%)
1	m	0.51	0/4127	0.83	5/5626 (0.1%)
1	n	0.51	0/4127	0.83	5/5626 (0.1%)
1	o	0.51	0/4127	0.83	5/5626 (0.1%)
1	p	0.51	0/4127	0.83	5/5626 (0.1%)
1	q	0.51	0/4127	0.83	5/5626 (0.1%)
1	r	0.51	0/4127	0.83	5/5626 (0.1%)
1	s	0.51	0/4127	0.83	5/5626 (0.1%)
1	t	0.51	0/4127	0.83	5/5626 (0.1%)
1	u	0.51	0/4127	0.83	5/5626 (0.1%)
1	v	0.51	0/4127	0.83	5/5626 (0.1%)
1	w	0.51	0/4127	0.83	5/5626 (0.1%)
1	x	0.51	0/4127	0.83	5/5626 (0.1%)
1	y	0.51	0/4127	0.83	5/5626 (0.1%)
1	z	0.51	0/4127	0.83	5/5626 (0.1%)
All	All	0.51	0/247620	0.83	300/337560 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	1	0	5
1	2	0	6
1	3	0	5
1	4	0	6
1	5	0	5
1	6	0	5
1	7	0	6
1	8	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	B	0	5
1	C	0	5
1	D	0	5
1	E	0	6
1	F	0	5
1	G	0	5
1	H	0	5
1	I	0	5
1	J	0	5
1	K	0	6
1	L	0	5
1	M	0	5
1	N	0	5
1	O	0	6
1	P	0	5
1	Q	0	5
1	R	0	5
1	S	0	5
1	T	0	6
1	U	0	6
1	V	0	5
1	W	0	5
1	X	0	5
1	Y	0	5
1	Z	0	5
1	a	0	5
1	b	0	5
1	c	0	5
1	d	0	5
1	e	0	5
1	f	0	5
1	g	0	6
1	h	0	5
1	i	0	5
1	j	0	5
1	k	0	5
1	l	0	6
1	m	0	5
1	n	0	6
1	o	0	6
1	p	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	5
1	r	0	5
1	s	0	5
1	t	0	5
1	u	0	5
1	v	0	5
1	w	0	6
1	x	0	6
1	y	0	5
1	z	0	5
All	All	0	314

There are no bond length outliers.

All (300) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	X	397	TYR	CA-C-N	7.85	132.61	120.60
1	X	397	TYR	C-N-CA	7.85	132.61	120.60
1	x	397	TYR	CA-C-N	7.85	132.61	120.60
1	x	397	TYR	C-N-CA	7.85	132.61	120.60
1	O	397	TYR	CA-C-N	7.83	132.57	120.60
1	O	397	TYR	C-N-CA	7.83	132.57	120.60
1	S	397	TYR	CA-C-N	7.82	132.57	120.60
1	S	397	TYR	C-N-CA	7.82	132.57	120.60
1	G	397	TYR	CA-C-N	7.81	132.55	120.60
1	G	397	TYR	C-N-CA	7.81	132.55	120.60
1	d	397	TYR	CA-C-N	7.81	132.55	120.60
1	d	397	TYR	C-N-CA	7.81	132.55	120.60
1	p	397	TYR	CA-C-N	7.81	132.55	120.60
1	p	397	TYR	C-N-CA	7.81	132.55	120.60
1	y	397	TYR	CA-C-N	7.81	132.55	120.60
1	y	397	TYR	C-N-CA	7.81	132.55	120.60
1	I	397	TYR	CA-C-N	7.81	132.55	120.60
1	I	397	TYR	C-N-CA	7.81	132.55	120.60
1	k	397	TYR	CA-C-N	7.81	132.55	120.60
1	k	397	TYR	C-N-CA	7.81	132.55	120.60
1	s	397	TYR	CA-C-N	7.80	132.54	120.60
1	s	397	TYR	C-N-CA	7.80	132.54	120.60
1	w	397	TYR	CA-C-N	7.80	132.54	120.60
1	w	397	TYR	C-N-CA	7.80	132.54	120.60
1	D	397	TYR	CA-C-N	7.80	132.53	120.60
1	D	397	TYR	C-N-CA	7.80	132.53	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	397	TYR	CA-C-N	7.80	132.53	120.60
1	i	397	TYR	C-N-CA	7.80	132.53	120.60
1	4	397	TYR	CA-C-N	7.80	132.53	120.60
1	4	397	TYR	C-N-CA	7.80	132.53	120.60
1	F	397	TYR	CA-C-N	7.79	132.52	120.60
1	F	397	TYR	C-N-CA	7.79	132.52	120.60
1	U	397	TYR	CA-C-N	7.79	132.52	120.60
1	U	397	TYR	C-N-CA	7.79	132.52	120.60
1	L	397	TYR	CA-C-N	7.79	132.52	120.60
1	L	397	TYR	C-N-CA	7.79	132.52	120.60
1	N	397	TYR	CA-C-N	7.79	132.52	120.60
1	N	397	TYR	C-N-CA	7.79	132.52	120.60
1	R	397	TYR	CA-C-N	7.79	132.52	120.60
1	R	397	TYR	C-N-CA	7.79	132.52	120.60
1	Y	397	TYR	CA-C-N	7.79	132.52	120.60
1	Y	397	TYR	C-N-CA	7.79	132.52	120.60
1	Z	397	TYR	CA-C-N	7.79	132.52	120.60
1	Z	397	TYR	C-N-CA	7.79	132.52	120.60
1	a	397	TYR	CA-C-N	7.79	132.52	120.60
1	a	397	TYR	C-N-CA	7.79	132.52	120.60
1	c	397	TYR	CA-C-N	7.79	132.52	120.60
1	c	397	TYR	C-N-CA	7.79	132.52	120.60
1	q	397	TYR	CA-C-N	7.79	132.52	120.60
1	q	397	TYR	C-N-CA	7.79	132.52	120.60
1	b	397	TYR	CA-C-N	7.79	132.52	120.60
1	b	397	TYR	C-N-CA	7.79	132.52	120.60
1	1	397	TYR	CA-C-N	7.79	132.51	120.60
1	1	397	TYR	C-N-CA	7.79	132.51	120.60
1	Q	397	TYR	CA-C-N	7.79	132.51	120.60
1	Q	397	TYR	C-N-CA	7.79	132.51	120.60
1	m	397	TYR	CA-C-N	7.79	132.51	120.60
1	m	397	TYR	C-N-CA	7.79	132.51	120.60
1	r	397	TYR	CA-C-N	7.79	132.51	120.60
1	r	397	TYR	C-N-CA	7.79	132.51	120.60
1	t	397	TYR	CA-C-N	7.79	132.51	120.60
1	t	397	TYR	C-N-CA	7.79	132.51	120.60
1	5	397	TYR	CA-C-N	7.79	132.51	120.60
1	5	397	TYR	C-N-CA	7.79	132.51	120.60
1	A	397	TYR	CA-C-N	7.79	132.51	120.60
1	A	397	TYR	C-N-CA	7.79	132.51	120.60
1	g	397	TYR	CA-C-N	7.79	132.51	120.60
1	g	397	TYR	C-N-CA	7.79	132.51	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	397	TYR	CA-C-N	7.79	132.51	120.60
1	o	397	TYR	C-N-CA	7.79	132.51	120.60
1	J	397	TYR	CA-C-N	7.78	132.51	120.60
1	J	397	TYR	C-N-CA	7.78	132.51	120.60
1	f	397	TYR	CA-C-N	7.78	132.51	120.60
1	f	397	TYR	C-N-CA	7.78	132.51	120.60
1	K	397	TYR	CA-C-N	7.78	132.50	120.60
1	K	397	TYR	C-N-CA	7.78	132.50	120.60
1	P	397	TYR	CA-C-N	7.78	132.50	120.60
1	P	397	TYR	C-N-CA	7.78	132.50	120.60
1	8	397	TYR	CA-C-N	7.78	132.50	120.60
1	8	397	TYR	C-N-CA	7.78	132.50	120.60
1	C	397	TYR	CA-C-N	7.78	132.50	120.60
1	C	397	TYR	C-N-CA	7.78	132.50	120.60
1	h	397	TYR	CA-C-N	7.78	132.50	120.60
1	h	397	TYR	C-N-CA	7.78	132.50	120.60
1	n	397	TYR	CA-C-N	7.78	132.50	120.60
1	n	397	TYR	C-N-CA	7.78	132.50	120.60
1	z	397	TYR	CA-C-N	7.78	132.50	120.60
1	z	397	TYR	C-N-CA	7.78	132.50	120.60
1	2	397	TYR	CA-C-N	7.78	132.50	120.60
1	2	397	TYR	C-N-CA	7.78	132.50	120.60
1	T	397	TYR	CA-C-N	7.78	132.50	120.60
1	T	397	TYR	C-N-CA	7.78	132.50	120.60
1	V	397	TYR	CA-C-N	7.78	132.50	120.60
1	V	397	TYR	C-N-CA	7.78	132.50	120.60
1	l	397	TYR	CA-C-N	7.77	132.49	120.60
1	l	397	TYR	C-N-CA	7.77	132.49	120.60
1	E	397	TYR	CA-C-N	7.77	132.49	120.60
1	E	397	TYR	C-N-CA	7.77	132.49	120.60
1	e	397	TYR	CA-C-N	7.77	132.48	120.60
1	e	397	TYR	C-N-CA	7.77	132.48	120.60
1	j	397	TYR	CA-C-N	7.77	132.49	120.60
1	j	397	TYR	C-N-CA	7.77	132.49	120.60
1	v	397	TYR	CA-C-N	7.77	132.48	120.60
1	v	397	TYR	C-N-CA	7.77	132.48	120.60
1	3	397	TYR	CA-C-N	7.77	132.49	120.60
1	3	397	TYR	C-N-CA	7.77	132.49	120.60
1	B	397	TYR	CA-C-N	7.76	132.48	120.60
1	B	397	TYR	C-N-CA	7.76	132.48	120.60
1	6	397	TYR	CA-C-N	7.76	132.48	120.60
1	6	397	TYR	C-N-CA	7.76	132.48	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	397	TYR	CA-C-N	7.75	132.47	120.60
1	u	397	TYR	C-N-CA	7.75	132.47	120.60
1	H	397	TYR	CA-C-N	7.75	132.46	120.60
1	H	397	TYR	C-N-CA	7.75	132.46	120.60
1	M	397	TYR	CA-C-N	7.75	132.46	120.60
1	M	397	TYR	C-N-CA	7.75	132.46	120.60
1	W	397	TYR	CA-C-N	7.75	132.46	120.60
1	W	397	TYR	C-N-CA	7.75	132.46	120.60
1	7	397	TYR	CA-C-N	7.75	132.46	120.60
1	7	397	TYR	C-N-CA	7.75	132.46	120.60
1	q	591	ALA	CA-C-N	6.58	133.55	121.70
1	q	591	ALA	C-N-CA	6.58	133.55	121.70
1	n	591	ALA	CA-C-N	6.58	133.54	121.70
1	n	591	ALA	C-N-CA	6.58	133.54	121.70
1	v	591	ALA	CA-C-N	6.57	133.53	121.70
1	v	591	ALA	C-N-CA	6.57	133.53	121.70
1	h	591	ALA	CA-C-N	6.57	133.53	121.70
1	h	591	ALA	C-N-CA	6.57	133.53	121.70
1	S	591	ALA	CA-C-N	6.57	133.52	121.70
1	S	591	ALA	C-N-CA	6.57	133.52	121.70
1	8	591	ALA	CA-C-N	6.57	133.52	121.70
1	8	591	ALA	C-N-CA	6.57	133.52	121.70
1	l	591	ALA	CA-C-N	6.56	133.52	121.70
1	l	591	ALA	C-N-CA	6.56	133.52	121.70
1	A	591	ALA	CA-C-N	6.56	133.51	121.70
1	A	591	ALA	C-N-CA	6.56	133.51	121.70
1	Q	591	ALA	CA-C-N	6.56	133.51	121.70
1	Q	591	ALA	C-N-CA	6.56	133.51	121.70
1	i	591	ALA	CA-C-N	6.56	133.51	121.70
1	i	591	ALA	C-N-CA	6.56	133.51	121.70
1	r	591	ALA	CA-C-N	6.56	133.51	121.70
1	r	591	ALA	C-N-CA	6.56	133.51	121.70
1	4	591	ALA	CA-C-N	6.56	133.51	121.70
1	4	591	ALA	C-N-CA	6.56	133.51	121.70
1	5	591	ALA	CA-C-N	6.56	133.51	121.70
1	5	591	ALA	C-N-CA	6.56	133.51	121.70
1	K	591	ALA	CA-C-N	6.56	133.50	121.70
1	K	591	ALA	C-N-CA	6.56	133.50	121.70
1	y	591	ALA	CA-C-N	6.56	133.50	121.70
1	y	591	ALA	C-N-CA	6.56	133.50	121.70
1	j	591	ALA	CA-C-N	6.55	133.49	121.70
1	j	591	ALA	C-N-CA	6.55	133.49	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	X	591	ALA	CA-C-N	6.55	133.49	121.70
1	X	591	ALA	C-N-CA	6.55	133.49	121.70
1	c	591	ALA	CA-C-N	6.55	133.49	121.70
1	c	591	ALA	C-N-CA	6.55	133.49	121.70
1	x	591	ALA	CA-C-N	6.55	133.49	121.70
1	x	591	ALA	C-N-CA	6.55	133.49	121.70
1	T	591	ALA	CA-C-N	6.55	133.49	121.70
1	T	591	ALA	C-N-CA	6.55	133.49	121.70
1	d	591	ALA	CA-C-N	6.55	133.49	121.70
1	d	591	ALA	C-N-CA	6.55	133.49	121.70
1	2	591	ALA	CA-C-N	6.55	133.49	121.70
1	2	591	ALA	C-N-CA	6.55	133.49	121.70
1	G	591	ALA	CA-C-N	6.55	133.48	121.70
1	G	591	ALA	C-N-CA	6.55	133.48	121.70
1	U	591	ALA	CA-C-N	6.55	133.49	121.70
1	U	591	ALA	C-N-CA	6.55	133.49	121.70
1	f	591	ALA	CA-C-N	6.55	133.49	121.70
1	f	591	ALA	C-N-CA	6.55	133.49	121.70
1	p	591	ALA	CA-C-N	6.55	133.48	121.70
1	p	591	ALA	C-N-CA	6.55	133.48	121.70
1	s	591	ALA	CA-C-N	6.55	133.49	121.70
1	s	591	ALA	C-N-CA	6.55	133.49	121.70
1	w	591	ALA	CA-C-N	6.55	133.49	121.70
1	w	591	ALA	C-N-CA	6.55	133.49	121.70
1	3	591	ALA	CA-C-N	6.55	133.49	121.70
1	3	591	ALA	C-N-CA	6.55	133.49	121.70
1	7	591	ALA	CA-C-N	6.55	133.49	121.70
1	7	591	ALA	C-N-CA	6.55	133.49	121.70
1	Z	591	ALA	CA-C-N	6.54	133.48	121.70
1	Z	591	ALA	C-N-CA	6.54	133.48	121.70
1	k	591	ALA	CA-C-N	6.54	133.48	121.70
1	k	591	ALA	C-N-CA	6.54	133.48	121.70
1	t	591	ALA	CA-C-N	6.54	133.48	121.70
1	t	591	ALA	C-N-CA	6.54	133.48	121.70
1	a	591	ALA	CA-C-N	6.54	133.47	121.70
1	a	591	ALA	C-N-CA	6.54	133.47	121.70
1	u	591	ALA	CA-C-N	6.54	133.48	121.70
1	u	591	ALA	C-N-CA	6.54	133.48	121.70
1	6	591	ALA	CA-C-N	6.54	133.48	121.70
1	6	591	ALA	C-N-CA	6.54	133.48	121.70
1	I	591	ALA	CA-C-N	6.54	133.47	121.70
1	I	591	ALA	C-N-CA	6.54	133.47	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	591	ALA	CA-C-N	6.54	133.47	121.70
1	C	591	ALA	C-N-CA	6.54	133.47	121.70
1	D	591	ALA	CA-C-N	6.54	133.47	121.70
1	D	591	ALA	C-N-CA	6.54	133.47	121.70
1	Y	591	ALA	CA-C-N	6.54	133.47	121.70
1	Y	591	ALA	C-N-CA	6.54	133.47	121.70
1	L	591	ALA	CA-C-N	6.53	133.46	121.70
1	L	591	ALA	C-N-CA	6.53	133.46	121.70
1	m	591	ALA	CA-C-N	6.53	133.46	121.70
1	m	591	ALA	C-N-CA	6.53	133.46	121.70
1	z	591	ALA	CA-C-N	6.53	133.46	121.70
1	z	591	ALA	C-N-CA	6.53	133.46	121.70
1	o	591	ALA	CA-C-N	6.53	133.46	121.70
1	o	591	ALA	C-N-CA	6.53	133.46	121.70
1	1	591	ALA	CA-C-N	6.53	133.46	121.70
1	1	591	ALA	C-N-CA	6.53	133.46	121.70
1	g	591	ALA	CA-C-N	6.53	133.45	121.70
1	g	591	ALA	C-N-CA	6.53	133.45	121.70
1	b	591	ALA	CA-C-N	6.53	133.45	121.70
1	b	591	ALA	C-N-CA	6.53	133.45	121.70
1	B	591	ALA	CA-C-N	6.53	133.45	121.70
1	B	591	ALA	C-N-CA	6.53	133.45	121.70
1	E	591	ALA	CA-C-N	6.53	133.45	121.70
1	E	591	ALA	C-N-CA	6.53	133.45	121.70
1	F	591	ALA	CA-C-N	6.53	133.45	121.70
1	F	591	ALA	C-N-CA	6.53	133.45	121.70
1	H	591	ALA	CA-C-N	6.53	133.45	121.70
1	H	591	ALA	C-N-CA	6.53	133.45	121.70
1	J	591	ALA	CA-C-N	6.53	133.45	121.70
1	J	591	ALA	C-N-CA	6.53	133.45	121.70
1	M	591	ALA	CA-C-N	6.53	133.45	121.70
1	M	591	ALA	C-N-CA	6.53	133.45	121.70
1	N	591	ALA	CA-C-N	6.53	133.44	121.70
1	N	591	ALA	C-N-CA	6.53	133.44	121.70
1	O	591	ALA	CA-C-N	6.53	133.45	121.70
1	O	591	ALA	C-N-CA	6.53	133.45	121.70
1	P	591	ALA	CA-C-N	6.53	133.44	121.70
1	P	591	ALA	C-N-CA	6.53	133.44	121.70
1	V	591	ALA	CA-C-N	6.53	133.44	121.70
1	V	591	ALA	C-N-CA	6.53	133.44	121.70
1	W	591	ALA	CA-C-N	6.53	133.45	121.70
1	W	591	ALA	C-N-CA	6.53	133.45	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	591	ALA	CA-C-N	6.53	133.44	121.70
1	e	591	ALA	C-N-CA	6.53	133.44	121.70
1	R	591	ALA	CA-C-N	6.52	133.44	121.70
1	R	591	ALA	C-N-CA	6.52	133.44	121.70
1	6	664	ALA	CB-CA-C	-5.22	109.03	116.34
1	F	664	ALA	CB-CA-C	-5.22	109.03	116.34
1	o	664	ALA	CB-CA-C	-5.22	109.03	116.34
1	c	664	ALA	CB-CA-C	-5.21	109.04	116.34
1	T	664	ALA	CB-CA-C	-5.21	109.05	116.34
1	t	664	ALA	CB-CA-C	-5.21	109.05	116.34
1	M	664	ALA	CB-CA-C	-5.21	109.05	116.34
1	D	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	H	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	K	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	i	664	ALA	CB-CA-C	-5.20	109.05	116.34
1	n	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	w	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	y	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	C	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	Y	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	1	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	l	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	q	664	ALA	CB-CA-C	-5.20	109.06	116.34
1	G	664	ALA	CB-CA-C	-5.20	109.07	116.34
1	W	664	ALA	CB-CA-C	-5.19	109.07	116.34
1	p	664	ALA	CB-CA-C	-5.19	109.07	116.34
1	3	664	ALA	CB-CA-C	-5.19	109.07	116.34
1	R	664	ALA	CB-CA-C	-5.19	109.08	116.34
1	S	664	ALA	CB-CA-C	-5.19	109.08	116.34
1	g	664	ALA	CB-CA-C	-5.19	109.08	116.34
1	u	664	ALA	CB-CA-C	-5.19	109.08	116.34
1	4	664	ALA	CB-CA-C	-5.19	109.08	116.34
1	A	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	2	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	J	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	L	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	Q	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	k	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	m	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	r	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	v	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	5	664	ALA	CB-CA-C	-5.18	109.08	116.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	664	ALA	CB-CA-C	-5.18	109.08	116.34
1	E	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	I	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	N	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	O	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	P	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	V	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	X	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	a	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	e	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	f	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	x	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	8	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	d	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	h	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	z	664	ALA	CB-CA-C	-5.18	109.09	116.34
1	Z	664	ALA	CB-CA-C	-5.17	109.09	116.34
1	B	664	ALA	CB-CA-C	-5.17	109.10	116.34
1	U	664	ALA	CB-CA-C	-5.17	109.10	116.34
1	b	664	ALA	CB-CA-C	-5.17	109.10	116.34
1	j	664	ALA	CB-CA-C	-5.17	109.10	116.34
1	s	664	ALA	CB-CA-C	-5.17	109.11	116.34

There are no chirality outliers.

All (314) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	354	LEU	Peptide
1	1	607	GLN	Peptide
1	1	628	PHE	Peptide
1	1	705	ASN	Peptide
1	1	728	THR	Peptide
1	2	354	LEU	Peptide
1	2	381	ASN	Peptide
1	2	607	GLN	Peptide
1	2	628	PHE	Peptide
1	2	705	ASN	Peptide
1	2	728	THR	Peptide
1	3	354	LEU	Peptide
1	3	607	GLN	Peptide
1	3	628	PHE	Peptide
1	3	705	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	3	728	THR	Peptide
1	4	354	LEU	Peptide
1	4	381	ASN	Peptide
1	4	607	GLN	Peptide
1	4	628	PHE	Peptide
1	4	705	ASN	Peptide
1	4	728	THR	Peptide
1	5	354	LEU	Peptide
1	5	607	GLN	Peptide
1	5	628	PHE	Peptide
1	5	705	ASN	Peptide
1	5	728	THR	Peptide
1	6	354	LEU	Peptide
1	6	607	GLN	Peptide
1	6	628	PHE	Peptide
1	6	705	ASN	Peptide
1	6	728	THR	Peptide
1	7	354	LEU	Peptide
1	7	381	ASN	Peptide
1	7	607	GLN	Peptide
1	7	628	PHE	Peptide
1	7	705	ASN	Peptide
1	7	728	THR	Peptide
1	8	354	LEU	Peptide
1	8	607	GLN	Peptide
1	8	628	PHE	Peptide
1	8	705	ASN	Peptide
1	8	728	THR	Peptide
1	A	354	LEU	Peptide
1	A	607	GLN	Peptide
1	A	628	PHE	Peptide
1	A	705	ASN	Peptide
1	A	728	THR	Peptide
1	B	354	LEU	Peptide
1	B	607	GLN	Peptide
1	B	628	PHE	Peptide
1	B	705	ASN	Peptide
1	B	728	THR	Peptide
1	C	354	LEU	Peptide
1	C	607	GLN	Peptide
1	C	628	PHE	Peptide
1	C	705	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	C	728	THR	Peptide
1	D	354	LEU	Peptide
1	D	607	GLN	Peptide
1	D	628	PHE	Peptide
1	D	705	ASN	Peptide
1	D	728	THR	Peptide
1	E	354	LEU	Peptide
1	E	381	ASN	Peptide
1	E	607	GLN	Peptide
1	E	628	PHE	Peptide
1	E	705	ASN	Peptide
1	E	728	THR	Peptide
1	F	354	LEU	Peptide
1	F	607	GLN	Peptide
1	F	628	PHE	Peptide
1	F	705	ASN	Peptide
1	F	728	THR	Peptide
1	G	354	LEU	Peptide
1	G	607	GLN	Peptide
1	G	628	PHE	Peptide
1	G	705	ASN	Peptide
1	G	728	THR	Peptide
1	H	354	LEU	Peptide
1	H	607	GLN	Peptide
1	H	628	PHE	Peptide
1	H	705	ASN	Peptide
1	H	728	THR	Peptide
1	I	354	LEU	Peptide
1	I	607	GLN	Peptide
1	I	628	PHE	Peptide
1	I	705	ASN	Peptide
1	I	728	THR	Peptide
1	J	354	LEU	Peptide
1	J	607	GLN	Peptide
1	J	628	PHE	Peptide
1	J	705	ASN	Peptide
1	J	728	THR	Peptide
1	K	354	LEU	Peptide
1	K	381	ASN	Peptide
1	K	607	GLN	Peptide
1	K	628	PHE	Peptide
1	K	705	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	K	728	THR	Peptide
1	L	354	LEU	Peptide
1	L	607	GLN	Peptide
1	L	628	PHE	Peptide
1	L	705	ASN	Peptide
1	L	728	THR	Peptide
1	M	354	LEU	Peptide
1	M	607	GLN	Peptide
1	M	628	PHE	Peptide
1	M	705	ASN	Peptide
1	M	728	THR	Peptide
1	N	354	LEU	Peptide
1	N	607	GLN	Peptide
1	N	628	PHE	Peptide
1	N	705	ASN	Peptide
1	N	728	THR	Peptide
1	O	354	LEU	Peptide
1	O	381	ASN	Peptide
1	O	607	GLN	Peptide
1	O	628	PHE	Peptide
1	O	705	ASN	Peptide
1	O	728	THR	Peptide
1	P	354	LEU	Peptide
1	P	607	GLN	Peptide
1	P	628	PHE	Peptide
1	P	705	ASN	Peptide
1	P	728	THR	Peptide
1	Q	354	LEU	Peptide
1	Q	607	GLN	Peptide
1	Q	628	PHE	Peptide
1	Q	705	ASN	Peptide
1	Q	728	THR	Peptide
1	R	354	LEU	Peptide
1	R	607	GLN	Peptide
1	R	628	PHE	Peptide
1	R	705	ASN	Peptide
1	R	728	THR	Peptide
1	S	354	LEU	Peptide
1	S	607	GLN	Peptide
1	S	628	PHE	Peptide
1	S	705	ASN	Peptide
1	S	728	THR	Peptide

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Mol	Chain	Res	Type	Group
1	T	354	LEU	Peptide
1	T	381	ASN	Peptide
1	T	607	GLN	Peptide
1	T	628	PHE	Peptide
1	T	705	ASN	Peptide
1	T	728	THR	Peptide
1	U	354	LEU	Peptide
1	U	381	ASN	Peptide
1	U	607	GLN	Peptide
1	U	628	PHE	Peptide
1	U	705	ASN	Peptide
1	U	728	THR	Peptide
1	V	354	LEU	Peptide
1	V	607	GLN	Peptide
1	V	628	PHE	Peptide
1	V	705	ASN	Peptide
1	V	728	THR	Peptide
1	W	354	LEU	Peptide
1	W	607	GLN	Peptide
1	W	628	PHE	Peptide
1	W	705	ASN	Peptide
1	W	728	THR	Peptide
1	X	354	LEU	Peptide
1	X	607	GLN	Peptide
1	X	628	PHE	Peptide
1	X	705	ASN	Peptide
1	X	728	THR	Peptide
1	Y	354	LEU	Peptide
1	Y	607	GLN	Peptide
1	Y	628	PHE	Peptide
1	Y	705	ASN	Peptide
1	Y	728	THR	Peptide
1	Z	354	LEU	Peptide
1	Z	607	GLN	Peptide
1	Z	628	PHE	Peptide
1	Z	705	ASN	Peptide
1	Z	728	THR	Peptide
1	a	354	LEU	Peptide
1	a	607	GLN	Peptide
1	a	628	PHE	Peptide
1	a	705	ASN	Peptide
1	a	728	THR	Peptide

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Mol	Chain	Res	Type	Group
1	b	354	LEU	Peptide
1	b	607	GLN	Peptide
1	b	628	PHE	Peptide
1	b	705	ASN	Peptide
1	b	728	THR	Peptide
1	c	354	LEU	Peptide
1	c	607	GLN	Peptide
1	c	628	PHE	Peptide
1	c	705	ASN	Peptide
1	c	728	THR	Peptide
1	d	354	LEU	Peptide
1	d	607	GLN	Peptide
1	d	628	PHE	Peptide
1	d	705	ASN	Peptide
1	d	728	THR	Peptide
1	e	354	LEU	Peptide
1	e	607	GLN	Peptide
1	e	628	PHE	Peptide
1	e	705	ASN	Peptide
1	e	728	THR	Peptide
1	f	354	LEU	Peptide
1	f	607	GLN	Peptide
1	f	628	PHE	Peptide
1	f	705	ASN	Peptide
1	f	728	THR	Peptide
1	g	354	LEU	Peptide
1	g	381	ASN	Peptide
1	g	607	GLN	Peptide
1	g	628	PHE	Peptide
1	g	705	ASN	Peptide
1	g	728	THR	Peptide
1	h	354	LEU	Peptide
1	h	607	GLN	Peptide
1	h	628	PHE	Peptide
1	h	705	ASN	Peptide
1	h	728	THR	Peptide
1	i	354	LEU	Peptide
1	i	607	GLN	Peptide
1	i	628	PHE	Peptide
1	i	705	ASN	Peptide
1	i	728	THR	Peptide
1	j	354	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	j	607	GLN	Peptide
1	j	628	PHE	Peptide
1	j	705	ASN	Peptide
1	j	728	THR	Peptide
1	k	354	LEU	Peptide
1	k	607	GLN	Peptide
1	k	628	PHE	Peptide
1	k	705	ASN	Peptide
1	k	728	THR	Peptide
1	l	354	LEU	Peptide
1	l	381	ASN	Peptide
1	l	607	GLN	Peptide
1	l	628	PHE	Peptide
1	l	705	ASN	Peptide
1	l	728	THR	Peptide
1	m	354	LEU	Peptide
1	m	607	GLN	Peptide
1	m	628	PHE	Peptide
1	m	705	ASN	Peptide
1	m	728	THR	Peptide
1	n	354	LEU	Peptide
1	n	381	ASN	Peptide
1	n	607	GLN	Peptide
1	n	628	PHE	Peptide
1	n	705	ASN	Peptide
1	n	728	THR	Peptide
1	o	354	LEU	Peptide
1	o	381	ASN	Peptide
1	o	607	GLN	Peptide
1	o	628	PHE	Peptide
1	o	705	ASN	Peptide
1	o	728	THR	Peptide
1	p	354	LEU	Peptide
1	p	607	GLN	Peptide
1	p	628	PHE	Peptide
1	p	705	ASN	Peptide
1	p	728	THR	Peptide
1	q	354	LEU	Peptide
1	q	607	GLN	Peptide
1	q	628	PHE	Peptide
1	q	705	ASN	Peptide
1	q	728	THR	Peptide

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Mol	Chain	Res	Type	Group
1	r	354	LEU	Peptide
1	r	607	GLN	Peptide
1	r	628	PHE	Peptide
1	r	705	ASN	Peptide
1	r	728	THR	Peptide
1	s	354	LEU	Peptide
1	s	607	GLN	Peptide
1	s	628	PHE	Peptide
1	s	705	ASN	Peptide
1	s	728	THR	Peptide
1	t	354	LEU	Peptide
1	t	607	GLN	Peptide
1	t	628	PHE	Peptide
1	t	705	ASN	Peptide
1	t	728	THR	Peptide
1	u	354	LEU	Peptide
1	u	607	GLN	Peptide
1	u	628	PHE	Peptide
1	u	705	ASN	Peptide
1	u	728	THR	Peptide
1	v	354	LEU	Peptide
1	v	607	GLN	Peptide
1	v	628	PHE	Peptide
1	v	705	ASN	Peptide
1	v	728	THR	Peptide
1	w	354	LEU	Peptide
1	w	381	ASN	Peptide
1	w	607	GLN	Peptide
1	w	628	PHE	Peptide
1	w	705	ASN	Peptide
1	w	728	THR	Peptide
1	x	354	LEU	Peptide
1	x	381	ASN	Peptide
1	x	607	GLN	Peptide
1	x	628	PHE	Peptide
1	x	705	ASN	Peptide
1	x	728	THR	Peptide
1	y	354	LEU	Peptide
1	y	607	GLN	Peptide
1	y	628	PHE	Peptide
1	y	705	ASN	Peptide
1	y	728	THR	Peptide

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Mol	Chain	Res	Type	Group
1	z	354	LEU	Peptide
1	z	607	GLN	Peptide
1	z	628	PHE	Peptide
1	z	705	ASN	Peptide
1	z	728	THR	Peptide

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4009	0	3787	286	0
1	2	4009	0	3787	281	0
1	3	4009	0	3787	281	0
1	4	4009	0	3787	285	0
1	5	4009	0	3787	287	0
1	6	4009	0	3787	278	0
1	7	4009	0	3787	283	0
1	8	4009	0	3787	285	0
1	A	4009	0	3787	282	0
1	B	4009	0	3787	287	0
1	C	4009	0	3787	279	0
1	D	4009	0	3787	290	0
1	E	4009	0	3787	285	0
1	F	4009	0	3787	279	0
1	G	4009	0	3787	283	0
1	H	4009	0	3787	288	0
1	I	4009	0	3787	286	0
1	J	4009	0	3787	283	0
1	K	4009	0	3787	289	0
1	L	4009	0	3787	280	0
1	M	4009	0	3787	284	0
1	N	4009	0	3787	285	0
1	O	4009	0	3787	284	0
1	P	4009	0	3787	283	0
1	Q	4009	0	3787	288	0
1	R	4009	0	3787	283	0
1	S	4009	0	3787	281	0
1	T	4009	0	3787	284	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	U	4009	0	3787	284	0
1	V	4009	0	3787	283	0
1	W	4009	0	3787	284	0
1	X	4009	0	3787	287	0
1	Y	4009	0	3787	281	0
1	Z	4009	0	3787	289	0
1	a	4009	0	3787	285	0
1	b	4009	0	3787	284	0
1	c	4009	0	3787	290	0
1	d	4009	0	3787	282	0
1	e	4009	0	3787	283	0
1	f	4009	0	3787	285	0
1	g	4009	0	3787	281	0
1	h	4009	0	3787	286	0
1	i	4009	0	3787	279	0
1	j	4009	0	3787	283	0
1	k	4009	0	3787	286	0
1	l	4009	0	3787	282	0
1	m	4009	0	3787	288	0
1	n	4009	0	3787	280	0
1	o	4009	0	3787	282	0
1	p	4009	0	3787	293	0
1	q	4009	0	3787	289	0
1	r	4009	0	3787	281	0
1	s	4009	0	3787	289	0
1	t	4009	0	3787	281	0
1	u	4009	0	3787	282	0
1	v	4009	0	3787	285	0
1	w	4009	0	3787	283	0
1	x	4009	0	3787	287	0
1	y	4009	0	3787	284	0
1	z	4009	0	3787	284	0
All	All	240540	0	227220	15173	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 32.

All (15173) 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:W:585:ARG:H	1:W:588:ARG:HB3	1.37	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:585:ARG:H	1:q:588:ARG:HB3	1.37	0.90
1:j:585:ARG:H	1:j:588:ARG:HB3	1.37	0.90
1:D:585:ARG:H	1:D:588:ARG:HB3	1.36	0.90
1:I:585:ARG:H	1:I:588:ARG:HB3	1.37	0.90
1:c:585:ARG:H	1:c:588:ARG:HB3	1.37	0.90
1:f:585:ARG:H	1:f:588:ARG:HB3	1.37	0.90
1:K:585:ARG:H	1:K:588:ARG:HB3	1.37	0.90
1:J:585:ARG:H	1:J:588:ARG:HB3	1.37	0.90
1:R:585:ARG:H	1:R:588:ARG:HB3	1.37	0.90
1:X:585:ARG:H	1:X:588:ARG:HB3	1.37	0.90
1:C:585:ARG:H	1:C:588:ARG:HB3	1.37	0.90
1:M:585:ARG:H	1:M:588:ARG:HB3	1.37	0.90
1:t:585:ARG:H	1:t:588:ARG:HB3	1.37	0.90
1:x:585:ARG:H	1:x:588:ARG:HB3	1.37	0.90
1:2:585:ARG:H	1:2:588:ARG:HB3	1.37	0.90
1:N:585:ARG:H	1:N:588:ARG:HB3	1.36	0.90
1:d:585:ARG:H	1:d:588:ARG:HB3	1.37	0.90
1:5:585:ARG:H	1:5:588:ARG:HB3	1.37	0.90
1:8:585:ARG:H	1:8:588:ARG:HB3	1.37	0.90
1:B:585:ARG:H	1:B:588:ARG:HB3	1.37	0.89
1:L:585:ARG:H	1:L:588:ARG:HB3	1.37	0.89
1:P:585:ARG:H	1:P:588:ARG:HB3	1.37	0.89
1:a:585:ARG:H	1:a:588:ARG:HB3	1.37	0.89
1:b:585:ARG:H	1:b:588:ARG:HB3	1.37	0.89
1:h:585:ARG:H	1:h:588:ARG:HB3	1.37	0.89
1:s:585:ARG:H	1:s:588:ARG:HB3	1.37	0.89
1:H:585:ARG:H	1:H:588:ARG:HB3	1.37	0.89
1:A:585:ARG:H	1:A:588:ARG:HB3	1.37	0.89
1:k:585:ARG:H	1:k:588:ARG:HB3	1.37	0.89
1:o:585:ARG:H	1:o:588:ARG:HB3	1.37	0.89
1:Q:585:ARG:H	1:Q:588:ARG:HB3	1.37	0.89
1:Y:585:ARG:H	1:Y:588:ARG:HB3	1.37	0.89
1:U:585:ARG:H	1:U:588:ARG:HB3	1.37	0.89
1:l:585:ARG:H	1:l:588:ARG:HB3	1.37	0.89
1:z:585:ARG:H	1:z:588:ARG:HB3	1.37	0.89
1:F:585:ARG:H	1:F:588:ARG:HB3	1.37	0.89
1:v:585:ARG:H	1:v:588:ARG:HB3	1.37	0.89
1:S:585:ARG:H	1:S:588:ARG:HB3	1.37	0.89
1:r:585:ARG:H	1:r:588:ARG:HB3	1.37	0.89
1:3:585:ARG:H	1:3:588:ARG:HB3	1.37	0.89
1:O:585:ARG:H	1:O:588:ARG:HB3	1.37	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:585:ARG:H	1:u:588:ARG:HB3	1.37	0.88
1:6:585:ARG:H	1:6:588:ARG:HB3	1.37	0.88
1:g:585:ARG:H	1:g:588:ARG:HB3	1.37	0.88
1:i:585:ARG:H	1:i:588:ARG:HB3	1.37	0.88
1:m:585:ARG:H	1:m:588:ARG:HB3	1.37	0.88
1:n:585:ARG:H	1:n:588:ARG:HB3	1.37	0.88
1:4:585:ARG:H	1:4:588:ARG:HB3	1.37	0.88
1:Z:585:ARG:H	1:Z:588:ARG:HB3	1.37	0.87
1:V:585:ARG:H	1:V:588:ARG:HB3	1.37	0.87
1:7:585:ARG:H	1:7:588:ARG:HB3	1.37	0.87
1:E:585:ARG:H	1:E:588:ARG:HB3	1.37	0.87
1:T:585:ARG:H	1:T:588:ARG:HB3	1.37	0.87
1:y:585:ARG:H	1:y:588:ARG:HB3	1.37	0.87
1:G:585:ARG:H	1:G:588:ARG:HB3	1.37	0.87
1:o:472:ASP:O	1:p:518:ASN:ND2	2.07	0.87
1:1:585:ARG:H	1:1:588:ARG:HB3	1.37	0.86
1:p:585:ARG:H	1:p:588:ARG:HB3	1.37	0.86
1:B:472:ASP:O	1:J:518:ASN:ND2	2.09	0.86
1:j:472:ASP:O	1:k:518:ASN:ND2	2.09	0.86
1:M:518:ASN:ND2	1:b:472:ASP:O	2.09	0.86
1:T:472:ASP:O	1:d:518:ASN:ND2	2.09	0.86
1:e:585:ARG:H	1:e:588:ARG:HB3	1.37	0.86
1:f:472:ASP:O	1:h:518:ASN:ND2	2.09	0.86
1:w:585:ARG:H	1:w:588:ARG:HB3	1.37	0.86
1:D:472:ASP:O	1:N:518:ASN:ND2	2.09	0.86
1:K:472:ASP:O	1:a:518:ASN:ND2	2.09	0.86
1:V:472:ASP:O	1:e:518:ASN:ND2	2.09	0.86
1:5:518:ASN:ND2	1:7:472:ASP:O	2.09	0.86
1:E:472:ASP:O	1:Q:518:ASN:ND2	2.09	0.86
1:B:518:ASN:ND2	1:L:472:ASP:O	2.09	0.86
1:C:472:ASP:O	1:b:518:ASN:ND2	2.09	0.86
1:R:472:ASP:O	1:S:518:ASN:ND2	2.09	0.86
1:w:518:ASN:ND2	1:y:472:ASP:O	2.09	0.86
1:q:518:ASN:ND2	1:s:472:ASP:O	2.07	0.86
1:X:518:ASN:ND2	1:e:472:ASP:O	2.09	0.86
1:t:472:ASP:O	1:u:518:ASN:ND2	2.09	0.86
1:6:472:ASP:O	1:7:518:ASN:ND2	2.09	0.86
1:O:518:ASN:ND2	1:n:472:ASP:O	2.09	0.85
1:g:518:ASN:ND2	1:h:472:ASP:O	2.09	0.85
1:S:472:ASP:O	1:U:518:ASN:ND2	2.09	0.85
1:Z:472:ASP:O	1:4:518:ASN:ND2	2.09	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:518:ASN:ND2	1:v:472:ASP:O	2.09	0.85
1:w:472:ASP:O	1:x:518:ASN:ND2	2.09	0.85
1:Z:518:ASN:ND2	1:3:472:ASP:O	2.09	0.85
1:i:518:ASN:ND2	1:k:472:ASP:O	2.09	0.85
1:z:518:ASN:ND2	1:2:472:ASP:O	2.09	0.85
1:3:518:ASN:ND2	1:4:472:ASP:O	2.09	0.85
1:O:472:ASP:O	1:m:518:ASN:ND2	2.09	0.85
1:R:518:ASN:ND2	1:U:472:ASP:O	2.09	0.85
1:u:472:ASP:O	1:v:518:ASN:ND2	2.09	0.85
1:E:518:ASN:ND2	1:F:472:ASP:O	2.09	0.85
1:F:518:ASN:ND2	1:Q:472:ASP:O	2.09	0.85
1:5:472:ASP:O	1:6:518:ASN:ND2	2.09	0.85
1:1:472:ASP:O	1:2:518:ASN:ND2	2.10	0.85
1:H:518:ASN:ND2	1:Y:472:ASP:O	2.09	0.85
1:q:472:ASP:O	1:r:518:ASN:ND2	2.08	0.85
1:x:472:ASP:O	1:y:518:ASN:ND2	2.08	0.85
1:r:472:ASP:O	1:s:518:ASN:ND2	2.09	0.85
1:d:472:ASP:O	1:l:518:ASN:ND2	2.10	0.84
1:W:472:ASP:O	1:Y:518:ASN:ND2	2.09	0.84
1:G:472:ASP:O	1:I:518:ASN:ND2	2.09	0.84
1:N:472:ASP:O	1:P:518:ASN:ND2	2.09	0.84
1:V:518:ASN:ND2	1:X:472:ASP:O	2.09	0.84
1:m:472:ASP:O	1:n:518:ASN:ND2	2.10	0.84
1:i:472:ASP:O	1:j:518:ASN:ND2	2.09	0.84
1:a:472:ASP:O	1:8:518:ASN:ND2	2.09	0.84
1:J:472:ASP:O	1:L:518:ASN:ND2	2.09	0.84
1:C:518:ASN:ND2	1:M:472:ASP:O	2.09	0.84
1:f:518:ASN:ND2	1:g:472:ASP:O	2.09	0.84
1:A:472:ASP:O	1:G:518:ASN:ND2	2.09	0.84
1:T:518:ASN:ND2	1:l:472:ASP:O	2.09	0.84
1:H:472:ASP:O	1:W:518:ASN:ND2	2.09	0.83
1:c:472:ASP:O	1:o:518:ASN:ND2	2.10	0.83
1:K:518:ASN:ND2	1:8:472:ASP:O	2.09	0.83
1:D:518:ASN:ND2	1:P:472:ASP:O	2.09	0.83
1:z:472:ASP:O	1:1:518:ASN:ND2	2.10	0.83
1:c:487:ARG:O	1:p:584:GLN:NE2	2.10	0.83
1:W:526:HIS:NE2	1:W:563:GLU:OE2	2.12	0.82
1:q:526:HIS:NE2	1:q:563:GLU:OE2	2.12	0.82
1:6:526:HIS:NE2	1:6:563:GLU:OE2	2.12	0.82
1:F:526:HIS:NE2	1:F:563:GLU:OE2	2.13	0.82
1:M:526:HIS:NE2	1:M:563:GLU:OE2	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:526:HIS:NE2	1:7:563:GLU:OE2	2.12	0.82
1:E:526:HIS:NE2	1:E:563:GLU:OE2	2.12	0.82
1:J:526:HIS:NE2	1:J:563:GLU:OE2	2.13	0.82
1:m:526:HIS:NE2	1:m:563:GLU:OE2	2.12	0.82
1:V:526:HIS:NE2	1:V:563:GLU:OE2	2.12	0.82
1:y:526:HIS:NE2	1:y:563:GLU:OE2	2.12	0.82
1:H:526:HIS:NE2	1:H:563:GLU:OE2	2.12	0.82
1:Z:526:HIS:NE2	1:Z:563:GLU:OE2	2.13	0.82
1:s:526:HIS:NE2	1:s:563:GLU:OE2	2.13	0.82
1:X:526:HIS:NE2	1:X:563:GLU:OE2	2.13	0.82
1:x:526:HIS:NE2	1:x:563:GLU:OE2	2.12	0.82
1:D:526:HIS:NE2	1:D:563:GLU:OE2	2.12	0.82
1:K:526:HIS:NE2	1:K:563:GLU:OE2	2.12	0.82
1:d:526:HIS:NE2	1:d:563:GLU:OE2	2.13	0.82
1:e:526:HIS:NE2	1:e:563:GLU:OE2	2.12	0.82
1:f:526:HIS:NE2	1:f:563:GLU:OE2	2.12	0.82
1:j:526:HIS:NE2	1:j:563:GLU:OE2	2.13	0.82
1:g:526:HIS:NE2	1:g:563:GLU:OE2	2.12	0.81
1:i:526:HIS:NE2	1:i:563:GLU:OE2	2.13	0.81
1:l:526:HIS:NE2	1:l:563:GLU:OE2	2.13	0.81
1:w:526:HIS:NE2	1:w:563:GLU:OE2	2.12	0.81
1:z:526:HIS:NE2	1:z:563:GLU:OE2	2.12	0.81
1:2:526:HIS:NE2	1:2:563:GLU:OE2	2.12	0.81
1:Y:526:HIS:NE2	1:Y:563:GLU:OE2	2.13	0.81
1:r:526:HIS:NE2	1:r:563:GLU:OE2	2.12	0.81
1:a:526:HIS:NE2	1:a:563:GLU:OE2	2.12	0.81
1:N:526:HIS:NE2	1:N:563:GLU:OE2	2.13	0.81
1:O:526:HIS:NE2	1:O:563:GLU:OE2	2.13	0.81
1:4:526:HIS:NE2	1:4:563:GLU:OE2	2.12	0.81
1:Q:526:HIS:NE2	1:Q:563:GLU:OE2	2.12	0.81
1:n:526:HIS:NE2	1:n:563:GLU:OE2	2.12	0.81
1:3:526:HIS:NE2	1:3:563:GLU:OE2	2.12	0.81
1:I:526:HIS:NE2	1:I:563:GLU:OE2	2.12	0.81
1:y:416:GLU:HG2	1:y:417:ASP:H	1.46	0.81
1:C:416:GLU:HG2	1:C:417:ASP:H	1.46	0.81
1:R:526:HIS:NE2	1:R:563:GLU:OE2	2.12	0.81
1:X:416:GLU:HG2	1:X:417:ASP:H	1.46	0.81
1:c:526:HIS:NE2	1:c:563:GLU:OE2	2.12	0.81
1:f:416:GLU:HG2	1:f:417:ASP:H	1.46	0.81
1:j:416:GLU:HG2	1:j:417:ASP:H	1.46	0.81
1:t:526:HIS:NE2	1:t:563:GLU:OE2	2.12	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:416:GLU:HG2	1:1:417:ASP:H	1.46	0.81
1:A:518:ASN:ND2	1:I:472:ASP:O	2.13	0.81
1:T:416:GLU:HG2	1:T:417:ASP:H	1.46	0.81
1:T:526:HIS:NE2	1:T:563:GLU:OE2	2.12	0.81
1:V:416:GLU:HG2	1:V:417:ASP:H	1.46	0.81
1:b:526:HIS:NE2	1:b:563:GLU:OE2	2.12	0.81
1:p:526:HIS:NE2	1:p:563:GLU:OE2	2.12	0.81
1:x:416:GLU:HG2	1:x:417:ASP:H	1.46	0.81
1:5:526:HIS:NE2	1:5:563:GLU:OE2	2.12	0.81
1:B:526:HIS:NE2	1:B:563:GLU:OE2	2.12	0.81
1:G:526:HIS:NE2	1:G:563:GLU:OE2	2.13	0.81
1:L:416:GLU:HG2	1:L:417:ASP:H	1.46	0.81
1:A:526:HIS:NE2	1:A:563:GLU:OE2	2.12	0.81
1:G:416:GLU:HG2	1:G:417:ASP:H	1.46	0.81
1:P:526:HIS:NE2	1:P:563:GLU:OE2	2.12	0.81
1:U:416:GLU:HG2	1:U:417:ASP:H	1.46	0.81
1:Z:416:GLU:HG2	1:Z:417:ASP:H	1.46	0.81
1:h:526:HIS:NE2	1:h:563:GLU:OE2	2.12	0.81
1:k:526:HIS:NE2	1:k:563:GLU:OE2	2.13	0.81
1:m:416:GLU:HG2	1:m:417:ASP:H	1.46	0.81
1:p:416:GLU:HG2	1:p:417:ASP:H	1.46	0.81
1:1:526:HIS:NE2	1:1:563:GLU:OE2	2.13	0.81
1:C:526:HIS:NE2	1:C:563:GLU:OE2	2.12	0.80
1:U:526:HIS:NE2	1:U:563:GLU:OE2	2.13	0.80
1:8:526:HIS:NE2	1:8:563:GLU:OE2	2.13	0.80
1:L:526:HIS:NE2	1:L:563:GLU:OE2	2.12	0.80
1:S:526:HIS:NE2	1:S:563:GLU:OE2	2.12	0.80
1:u:526:HIS:NE2	1:u:563:GLU:OE2	2.12	0.80
1:v:416:GLU:HG2	1:v:417:ASP:H	1.46	0.80
1:v:526:HIS:NE2	1:v:563:GLU:OE2	2.12	0.80
1:o:526:HIS:NE2	1:o:563:GLU:OE2	2.13	0.80
1:I:416:GLU:HG2	1:I:417:ASP:H	1.46	0.80
1:a:416:GLU:HG2	1:a:417:ASP:H	1.46	0.80
1:J:416:GLU:HG2	1:J:417:ASP:H	1.46	0.80
1:N:416:GLU:HG2	1:N:417:ASP:H	1.46	0.80
1:c:416:GLU:HG2	1:c:417:ASP:H	1.46	0.80
1:g:416:GLU:HG2	1:g:417:ASP:H	1.46	0.80
1:M:416:GLU:HG2	1:M:417:ASP:H	1.46	0.80
1:i:416:GLU:HG2	1:i:417:ASP:H	1.46	0.80
1:6:416:GLU:HG2	1:6:417:ASP:H	1.46	0.80
1:E:416:GLU:HG2	1:E:417:ASP:H	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:416:GLU:HG2	1:7:417:ASP:H	1.46	0.80
1:F:416:GLU:HG2	1:F:417:ASP:H	1.46	0.80
1:c:518:ASN:ND2	1:p:472:ASP:O	2.15	0.80
1:3:416:GLU:HG2	1:3:417:ASP:H	1.46	0.80
1:O:416:GLU:HG2	1:O:417:ASP:H	1.46	0.79
1:b:416:GLU:HG2	1:b:417:ASP:H	1.46	0.79
1:n:416:GLU:HG2	1:n:417:ASP:H	1.46	0.79
1:2:416:GLU:HG2	1:2:417:ASP:H	1.46	0.79
1:o:416:GLU:HG2	1:o:417:ASP:H	1.46	0.79
1:4:416:GLU:HG2	1:4:417:ASP:H	1.46	0.79
1:8:416:GLU:HG2	1:8:417:ASP:H	1.46	0.79
1:s:416:GLU:HG2	1:s:417:ASP:H	1.46	0.79
1:A:416:GLU:HG2	1:A:417:ASP:H	1.46	0.79
1:P:416:GLU:HG2	1:P:417:ASP:H	1.46	0.79
1:Y:416:GLU:HG2	1:Y:417:ASP:H	1.46	0.79
1:B:416:GLU:HG2	1:B:417:ASP:H	1.46	0.79
1:D:416:GLU:HG2	1:D:417:ASP:H	1.46	0.79
1:d:416:GLU:HG2	1:d:417:ASP:H	1.46	0.79
1:e:416:GLU:HG2	1:e:417:ASP:H	1.46	0.79
1:h:416:GLU:HG2	1:h:417:ASP:H	1.46	0.79
1:w:416:GLU:HG2	1:w:417:ASP:H	1.46	0.79
1:H:416:GLU:HG2	1:H:417:ASP:H	1.46	0.79
1:W:416:GLU:HG2	1:W:417:ASP:H	1.46	0.79
1:K:416:GLU:HG2	1:K:417:ASP:H	1.46	0.79
1:Q:416:GLU:HG2	1:Q:417:ASP:H	1.46	0.79
1:k:416:GLU:HG2	1:k:417:ASP:H	1.46	0.79
1:q:634:MET:HG2	1:s:476:ASN:HB3	1.65	0.79
1:H:262:SER:HB2	1:H:272:TYR:H	1.48	0.79
1:p:262:SER:HB2	1:p:272:TYR:H	1.48	0.79
1:G:262:SER:HB2	1:G:272:TYR:H	1.48	0.79
1:S:262:SER:HB2	1:S:272:TYR:H	1.48	0.79
1:r:416:GLU:HG2	1:r:417:ASP:H	1.46	0.79
1:s:262:SER:HB2	1:s:272:TYR:H	1.48	0.79
1:u:262:SER:HB2	1:u:272:TYR:H	1.48	0.79
1:V:262:SER:HB2	1:V:272:TYR:H	1.48	0.79
1:l:416:GLU:HG2	1:l:417:ASP:H	1.46	0.79
1:q:416:GLU:HG2	1:q:417:ASP:H	1.46	0.79
1:5:416:GLU:HG2	1:5:417:ASP:H	1.46	0.79
1:J:262:SER:HB2	1:J:272:TYR:H	1.48	0.78
1:J:285:ASN:O	1:J:286:ARG:HG3	1.84	0.78
1:L:262:SER:HB2	1:L:272:TYR:H	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:285:ASN:O	1:M:286:ARG:HG3	1.84	0.78
1:S:416:GLU:HG2	1:S:417:ASP:H	1.46	0.78
1:q:262:SER:HB2	1:q:272:TYR:H	1.48	0.78
1:v:285:ASN:O	1:v:286:ARG:HG3	1.84	0.78
1:y:262:SER:HB2	1:y:272:TYR:H	1.48	0.78
1:U:285:ASN:O	1:U:286:ARG:HG3	1.84	0.78
1:W:262:SER:HB2	1:W:272:TYR:H	1.48	0.78
1:f:285:ASN:O	1:f:286:ARG:HG3	1.84	0.78
1:j:285:ASN:O	1:j:286:ARG:HG3	1.84	0.78
1:6:262:SER:HB2	1:6:272:TYR:H	1.48	0.78
1:C:262:SER:HB2	1:C:272:TYR:H	1.48	0.78
1:M:262:SER:HB2	1:M:272:TYR:H	1.48	0.78
1:Z:262:SER:HB2	1:Z:272:TYR:H	1.48	0.78
1:g:285:ASN:O	1:g:286:ARG:HG3	1.84	0.78
1:i:285:ASN:O	1:i:286:ARG:HG3	1.84	0.78
1:u:285:ASN:O	1:u:286:ARG:HG3	1.84	0.78
1:w:476:ASN:HB3	1:x:634:MET:HG2	1.65	0.78
1:z:416:GLU:HG2	1:z:417:ASP:H	1.46	0.78
1:5:285:ASN:O	1:5:286:ARG:HG3	1.84	0.78
1:B:285:ASN:O	1:B:286:ARG:HG3	1.84	0.78
1:S:285:ASN:O	1:S:286:ARG:HG3	1.84	0.78
1:Y:262:SER:HB2	1:Y:272:TYR:H	1.48	0.78
1:b:285:ASN:O	1:b:286:ARG:HG3	1.84	0.78
1:e:285:ASN:O	1:e:286:ARG:HG3	1.84	0.78
1:m:476:ASN:HB3	1:n:634:MET:HG2	1.65	0.78
1:r:262:SER:HB2	1:r:272:TYR:H	1.48	0.78
1:t:416:GLU:HG2	1:t:417:ASP:H	1.46	0.78
1:u:416:GLU:HG2	1:u:417:ASP:H	1.46	0.78
1:w:285:ASN:O	1:w:286:ARG:HG3	1.84	0.78
1:x:262:SER:HB2	1:x:272:TYR:H	1.48	0.78
1:B:262:SER:HB2	1:B:272:TYR:H	1.48	0.78
1:F:262:SER:HB2	1:F:272:TYR:H	1.48	0.78
1:P:285:ASN:O	1:P:286:ARG:HG3	1.84	0.78
1:Q:285:ASN:O	1:Q:286:ARG:HG3	1.84	0.78
1:X:262:SER:HB2	1:X:272:TYR:H	1.48	0.78
1:m:262:SER:HB2	1:m:272:TYR:H	1.48	0.78
1:s:285:ASN:O	1:s:286:ARG:HG3	1.83	0.78
1:6:285:ASN:O	1:6:286:ARG:HG3	1.84	0.78
1:7:285:ASN:O	1:7:286:ARG:HG3	1.84	0.78
1:8:285:ASN:O	1:8:286:ARG:HG3	1.84	0.78
1:F:285:ASN:O	1:F:286:ARG:HG3	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:285:ASN:O	1:H:286:ARG:HG3	1.84	0.78
1:J:476:ASN:HB3	1:L:634:MET:HG2	1.66	0.78
1:R:476:ASN:HB3	1:S:634:MET:HG2	1.66	0.78
1:X:634:MET:HG2	1:e:476:ASN:HB3	1.66	0.78
1:b:262:SER:HB2	1:b:272:TYR:H	1.48	0.78
1:C:634:MET:HG2	1:M:476:ASN:HB3	1.66	0.78
1:D:634:MET:HG2	1:P:476:ASN:HB3	1.66	0.78
1:E:285:ASN:O	1:E:286:ARG:HG3	1.84	0.78
1:H:476:ASN:HB3	1:W:634:MET:HG2	1.66	0.78
1:I:285:ASN:O	1:I:286:ARG:HG3	1.84	0.78
1:K:262:SER:HB2	1:K:272:TYR:H	1.48	0.78
1:N:262:SER:HB2	1:N:272:TYR:H	1.48	0.78
1:Q:262:SER:HB2	1:Q:272:TYR:H	1.48	0.78
1:R:416:GLU:HG2	1:R:417:ASP:H	1.46	0.78
1:a:262:SER:HB2	1:a:272:TYR:H	1.48	0.78
1:a:476:ASN:HB3	1:8:634:MET:HG2	1.66	0.78
1:c:285:ASN:O	1:c:286:ARG:HG3	1.84	0.78
1:e:262:SER:HB2	1:e:272:TYR:H	1.48	0.78
1:h:285:ASN:O	1:h:286:ARG:HG3	1.84	0.78
1:t:634:MET:HG2	1:v:476:ASN:HB3	1.66	0.78
1:u:476:ASN:HB3	1:v:634:MET:HG2	1.66	0.78
1:w:262:SER:HB2	1:w:272:TYR:H	1.48	0.78
1:K:634:MET:HG2	1:8:476:ASN:HB3	1.66	0.78
1:N:476:ASN:HB3	1:P:634:MET:HG2	1.66	0.78
1:Z:476:ASN:HB3	1:4:634:MET:HG2	1.66	0.78
1:n:262:SER:HB2	1:n:272:TYR:H	1.48	0.78
1:t:476:ASN:HB3	1:u:634:MET:HG2	1.66	0.78
1:5:262:SER:HB2	1:5:272:TYR:H	1.48	0.78
1:R:634:MET:HG2	1:U:476:ASN:HB3	1.66	0.78
1:S:476:ASN:HB3	1:U:634:MET:HG2	1.66	0.78
1:k:285:ASN:O	1:k:286:ARG:HG3	1.84	0.78
1:l:262:SER:HB2	1:l:272:TYR:H	1.48	0.78
1:t:285:ASN:O	1:t:286:ARG:HG3	1.84	0.78
1:A:476:ASN:HB3	1:G:634:MET:HG2	1.66	0.78
1:D:262:SER:HB2	1:D:272:TYR:H	1.48	0.78
1:T:262:SER:HB2	1:T:272:TYR:H	1.48	0.78
1:Z:634:MET:HG2	1:3:476:ASN:HB3	1.66	0.78
1:i:476:ASN:HB3	1:j:634:MET:HG2	1.66	0.78
1:r:476:ASN:HB3	1:s:634:MET:HG2	1.65	0.78
1:1:476:ASN:HB3	1:2:634:MET:HG2	1.66	0.78
1:4:262:SER:HB2	1:4:272:TYR:H	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:285:ASN:O	1:R:286:ARG:HG3	1.84	0.77
1:f:262:SER:HB2	1:f:272:TYR:H	1.48	0.77
1:o:443:TYR:HB2	1:p:541:ILE:HG21	1.67	0.77
1:y:285:ASN:O	1:y:286:ARG:HG3	1.84	0.77
1:A:285:ASN:O	1:A:286:ARG:HG3	1.84	0.77
1:T:285:ASN:O	1:T:286:ARG:HG3	1.84	0.77
1:z:262:SER:HB2	1:z:272:TYR:H	1.48	0.77
1:1:285:ASN:O	1:1:286:ARG:HG3	1.84	0.77
1:4:285:ASN:O	1:4:286:ARG:HG3	1.84	0.77
1:C:476:ASN:HB3	1:b:634:MET:HG2	1.66	0.77
1:L:285:ASN:O	1:L:286:ARG:HG3	1.83	0.77
1:O:476:ASN:HB3	1:m:634:MET:HG2	1.66	0.77
1:O:634:MET:HG2	1:n:476:ASN:HB3	1.65	0.77
1:V:285:ASN:O	1:V:286:ARG:HG3	1.84	0.77
1:j:262:SER:HB2	1:j:272:TYR:H	1.48	0.77
1:l:285:ASN:O	1:l:286:ARG:HG3	1.84	0.77
1:o:285:ASN:O	1:o:286:ARG:HG3	1.84	0.77
1:z:285:ASN:O	1:z:286:ARG:HG3	1.84	0.77
1:1:262:SER:HB2	1:1:272:TYR:H	1.48	0.77
1:C:285:ASN:O	1:C:286:ARG:HG3	1.84	0.77
1:O:285:ASN:O	1:O:286:ARG:HG3	1.84	0.77
1:W:285:ASN:O	1:W:286:ARG:HG3	1.84	0.77
1:W:476:ASN:HB3	1:Y:634:MET:HG2	1.66	0.77
1:Z:285:ASN:O	1:Z:286:ARG:HG3	1.84	0.77
1:a:285:ASN:O	1:a:286:ARG:HG3	1.83	0.77
1:f:634:MET:HG2	1:g:476:ASN:HB3	1.66	0.77
1:i:634:MET:HG2	1:k:476:ASN:HB3	1.66	0.77
1:n:285:ASN:O	1:n:286:ARG:HG3	1.84	0.77
1:q:476:ASN:HB3	1:r:634:MET:HG2	1.66	0.77
1:3:285:ASN:O	1:3:286:ARG:HG3	1.84	0.77
1:5:634:MET:HG2	1:7:476:ASN:HB3	1.66	0.77
1:B:634:MET:HG2	1:L:476:ASN:HB3	1.66	0.77
1:D:285:ASN:O	1:D:286:ARG:HG3	1.84	0.77
1:H:634:MET:HG2	1:Y:476:ASN:HB3	1.66	0.77
1:I:262:SER:HB2	1:I:272:TYR:H	1.48	0.77
1:T:476:ASN:HB3	1:d:634:MET:HG2	1.67	0.77
1:V:476:ASN:HB3	1:e:634:MET:HG2	1.65	0.77
1:c:262:SER:HB2	1:c:272:TYR:H	1.48	0.77
1:m:285:ASN:O	1:m:286:ARG:HG3	1.84	0.77
1:r:285:ASN:O	1:r:286:ARG:HG3	1.84	0.77
1:E:476:ASN:HB3	1:Q:634:MET:HG2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:285:ASN:O	1:N:286:ARG:HG3	1.84	0.77
1:g:634:MET:HG2	1:h:476:ASN:HB3	1.66	0.77
1:q:285:ASN:O	1:q:286:ARG:HG3	1.84	0.77
1:A:262:SER:HB2	1:A:272:TYR:H	1.48	0.77
1:K:285:ASN:O	1:K:286:ARG:HG3	1.84	0.77
1:O:594:ASP:OD1	1:O:595:VAL:N	2.18	0.77
1:R:594:ASP:OD1	1:R:595:VAL:N	2.18	0.77
1:S:594:ASP:OD1	1:S:595:VAL:N	2.18	0.77
1:m:594:ASP:OD1	1:m:595:VAL:N	2.18	0.77
1:n:594:ASP:OD1	1:n:595:VAL:N	2.18	0.77
1:t:594:ASP:OD1	1:t:595:VAL:N	2.18	0.77
1:u:594:ASP:OD1	1:u:595:VAL:N	2.18	0.77
1:z:634:MET:HG2	1:2:476:ASN:HB3	1.66	0.77
1:3:594:ASP:OD1	1:3:595:VAL:N	2.18	0.77
1:4:594:ASP:OD1	1:4:595:VAL:N	2.18	0.77
1:I:594:ASP:OD1	1:I:595:VAL:N	2.18	0.77
1:Y:285:ASN:O	1:Y:286:ARG:HG3	1.84	0.77
1:Z:594:ASP:OD1	1:Z:595:VAL:N	2.18	0.77
1:d:285:ASN:O	1:d:286:ARG:HG3	1.84	0.77
1:h:262:SER:HB2	1:h:272:TYR:H	1.48	0.77
1:w:634:MET:HG2	1:y:476:ASN:HB3	1.66	0.77
1:O:262:SER:HB2	1:O:272:TYR:H	1.48	0.77
1:c:594:ASP:OD1	1:c:595:VAL:N	2.18	0.77
1:d:262:SER:HB2	1:d:272:TYR:H	1.48	0.77
1:k:262:SER:HB2	1:k:272:TYR:H	1.48	0.77
1:x:285:ASN:O	1:x:286:ARG:HG3	1.83	0.77
1:2:285:ASN:O	1:2:286:ARG:HG3	1.84	0.77
1:3:634:MET:HG2	1:4:476:ASN:HB3	1.66	0.77
1:X:285:ASN:O	1:X:286:ARG:HG3	1.84	0.77
1:f:476:ASN:HB3	1:h:634:MET:HG2	1.66	0.77
1:o:262:SER:HB2	1:o:272:TYR:H	1.48	0.77
1:t:262:SER:HB2	1:t:272:TYR:H	1.48	0.77
1:K:476:ASN:HB3	1:a:634:MET:HG2	1.66	0.76
1:M:594:ASP:OD1	1:M:595:VAL:N	2.18	0.76
1:Q:594:ASP:OD1	1:Q:595:VAL:N	2.18	0.76
1:U:262:SER:HB2	1:U:272:TYR:H	1.48	0.76
1:g:594:ASP:OD1	1:g:595:VAL:N	2.18	0.76
1:h:594:ASP:OD1	1:h:595:VAL:N	2.18	0.76
1:i:594:ASP:OD1	1:i:595:VAL:N	2.18	0.76
1:3:262:SER:HB2	1:3:272:TYR:H	1.48	0.76
1:7:262:SER:HB2	1:7:272:TYR:H	1.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:476:ASN:HB3	1:N:634:MET:HG2	1.66	0.76
1:E:262:SER:HB2	1:E:272:TYR:H	1.48	0.76
1:G:476:ASN:HB3	1:I:634:MET:HG2	1.66	0.76
1:X:594:ASP:OD1	1:X:595:VAL:N	2.18	0.76
1:Y:594:ASP:OD1	1:Y:595:VAL:N	2.18	0.76
1:r:594:ASP:OD1	1:r:595:VAL:N	2.18	0.76
1:v:262:SER:HB2	1:v:272:TYR:H	1.48	0.76
1:v:594:ASP:OD1	1:v:595:VAL:N	2.18	0.76
1:2:262:SER:HB2	1:2:272:TYR:H	1.48	0.76
1:2:594:ASP:OD1	1:2:595:VAL:N	2.18	0.76
1:E:634:MET:HG2	1:F:476:ASN:HB3	1.66	0.76
1:J:594:ASP:OD1	1:J:595:VAL:N	2.18	0.76
1:R:262:SER:HB2	1:R:272:TYR:H	1.48	0.76
1:d:594:ASP:OD1	1:d:595:VAL:N	2.18	0.76
1:j:476:ASN:HB3	1:k:634:MET:HG2	1.66	0.76
1:k:594:ASP:OD1	1:k:595:VAL:N	2.18	0.76
1:x:594:ASP:OD1	1:x:595:VAL:N	2.18	0.76
1:5:594:ASP:OD1	1:5:595:VAL:N	2.18	0.76
1:6:476:ASN:HB3	1:7:634:MET:HG2	1.66	0.76
1:A:634:MET:HG2	1:I:476:ASN:HB3	1.67	0.76
1:C:594:ASP:OD1	1:C:595:VAL:N	2.18	0.76
1:L:594:ASP:OD1	1:L:595:VAL:N	2.18	0.76
1:R:584:GLN:NE2	1:S:487:ARG:O	2.15	0.76
1:U:594:ASP:OD1	1:U:595:VAL:N	2.18	0.76
1:5:476:ASN:HB3	1:6:634:MET:HG2	1.66	0.76
1:B:476:ASN:HB3	1:J:634:MET:HG2	1.66	0.76
1:F:634:MET:HG2	1:Q:476:ASN:HB3	1.66	0.76
1:G:285:ASN:O	1:G:286:ARG:HG3	1.84	0.76
1:P:262:SER:HB2	1:P:272:TYR:H	1.48	0.76
1:a:594:ASP:OD1	1:a:595:VAL:N	2.18	0.76
1:f:594:ASP:OD1	1:f:595:VAL:N	2.18	0.76
1:p:285:ASN:O	1:p:286:ARG:HG3	1.84	0.76
1:q:594:ASP:OD1	1:q:595:VAL:N	2.18	0.76
1:A:594:ASP:OD1	1:A:595:VAL:N	2.18	0.76
1:N:594:ASP:OD1	1:N:595:VAL:N	2.18	0.76
1:W:594:ASP:OD1	1:W:595:VAL:N	2.18	0.76
1:c:476:ASN:HB3	1:o:634:MET:HG2	1.67	0.76
1:j:594:ASP:OD1	1:j:595:VAL:N	2.18	0.76
1:M:634:MET:HG2	1:b:476:ASN:HB3	1.66	0.76
1:V:634:MET:HG2	1:X:476:ASN:HB3	1.66	0.76
1:d:476:ASN:HB3	1:l:634:MET:HG2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:594:ASP:OD1	1:o:595:VAL:N	2.18	0.76
1:p:594:ASP:OD1	1:p:595:VAL:N	2.18	0.76
1:x:584:GLN:NE2	1:y:487:ARG:O	2.15	0.76
1:G:594:ASP:OD1	1:G:595:VAL:N	2.18	0.76
1:l:594:ASP:OD1	1:l:595:VAL:N	2.18	0.76
1:x:476:ASN:HB3	1:y:634:MET:HG2	1.66	0.76
1:z:594:ASP:OD1	1:z:595:VAL:N	2.18	0.76
1:8:262:SER:HB2	1:8:272:TYR:H	1.48	0.76
1:T:634:MET:HG2	1:l:476:ASN:HB3	1.66	0.76
1:e:594:ASP:OD1	1:e:595:VAL:N	2.18	0.76
1:D:594:ASP:OD1	1:D:595:VAL:N	2.18	0.75
1:w:594:ASP:OD1	1:w:595:VAL:N	2.18	0.75
1:1:594:ASP:OD1	1:1:595:VAL:N	2.18	0.75
1:B:594:ASP:OD1	1:B:595:VAL:N	2.18	0.75
1:K:594:ASP:OD1	1:K:595:VAL:N	2.18	0.75
1:z:476:ASN:HB3	1:1:634:MET:HG2	1.66	0.75
1:T:594:ASP:OD1	1:T:595:VAL:N	2.18	0.75
1:V:487:ARG:O	1:X:584:GLN:NE2	2.15	0.75
1:b:594:ASP:OD1	1:b:595:VAL:N	2.18	0.75
1:g:262:SER:HB2	1:g:272:TYR:H	1.48	0.75
1:o:476:ASN:HB3	1:p:634:MET:HG2	1.69	0.75
1:z:497:ASN:HB3	1:z:498:SER:HA	1.69	0.75
1:2:701:THR:HG23	1:2:703:ASN:H	1.52	0.75
1:O:497:ASN:HB3	1:O:498:SER:HA	1.69	0.75
1:T:497:ASN:HB3	1:T:498:SER:HA	1.69	0.75
1:Y:497:ASN:HB3	1:Y:498:SER:HA	1.69	0.75
1:l:701:THR:HG23	1:l:703:ASN:H	1.52	0.75
1:t:497:ASN:HB3	1:t:498:SER:HA	1.69	0.75
1:3:497:ASN:HB3	1:3:498:SER:HA	1.69	0.75
1:D:701:THR:HG23	1:D:703:ASN:H	1.52	0.75
1:H:497:ASN:HB3	1:H:498:SER:HA	1.69	0.75
1:K:701:THR:HG23	1:K:703:ASN:H	1.52	0.75
1:R:497:ASN:HB3	1:R:498:SER:HA	1.69	0.75
1:g:497:ASN:HB3	1:g:498:SER:HA	1.69	0.75
1:i:262:SER:HB2	1:i:272:TYR:H	1.48	0.75
1:i:497:ASN:HB3	1:i:498:SER:HA	1.69	0.75
1:l:497:ASN:HB3	1:l:498:SER:HA	1.69	0.75
1:r:497:ASN:HB3	1:r:498:SER:HA	1.69	0.75
1:t:701:THR:HG23	1:t:703:ASN:H	1.52	0.75
1:y:594:ASP:OD1	1:y:595:VAL:N	2.18	0.75
1:z:701:THR:HG23	1:z:703:ASN:H	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:497:ASN:HB3	1:1:498:SER:HA	1.69	0.75
1:5:701:THR:HG23	1:5:703:ASN:H	1.52	0.75
1:6:594:ASP:OD1	1:6:595:VAL:N	2.18	0.75
1:Q:701:THR:HG23	1:Q:703:ASN:H	1.52	0.75
1:R:701:THR:HG23	1:R:703:ASN:H	1.52	0.75
1:V:497:ASN:HB3	1:V:498:SER:HA	1.69	0.75
1:b:497:ASN:HB3	1:b:498:SER:HA	1.69	0.75
1:r:701:THR:HG23	1:r:703:ASN:H	1.52	0.75
1:s:497:ASN:HB3	1:s:498:SER:HA	1.69	0.75
1:B:497:ASN:HB3	1:B:498:SER:HA	1.69	0.75
1:C:497:ASN:HB3	1:C:498:SER:HA	1.69	0.75
1:F:497:ASN:HB3	1:F:498:SER:HA	1.69	0.75
1:F:594:ASP:OD1	1:F:595:VAL:N	2.18	0.75
1:V:594:ASP:OD1	1:V:595:VAL:N	2.18	0.75
1:Y:701:THR:HG23	1:Y:703:ASN:H	1.52	0.75
1:c:486:GLN:NE2	1:p:584:GLN:OE1	2.19	0.75
1:e:701:THR:HG23	1:e:703:ASN:H	1.52	0.75
1:k:701:THR:HG23	1:k:703:ASN:H	1.52	0.75
1:w:701:THR:HG23	1:w:703:ASN:H	1.52	0.75
1:6:497:ASN:HB3	1:6:498:SER:HA	1.69	0.75
1:E:497:ASN:HB3	1:E:498:SER:HA	1.69	0.75
1:O:584:GLN:NE2	1:m:487:ARG:O	2.15	0.75
1:Z:487:ARG:O	1:3:584:GLN:NE2	2.15	0.75
1:d:701:THR:HG23	1:d:703:ASN:H	1.52	0.75
1:h:701:THR:HG23	1:h:703:ASN:H	1.52	0.75
1:y:497:ASN:HB3	1:y:498:SER:HA	1.69	0.75
1:7:594:ASP:OD1	1:7:595:VAL:N	2.18	0.75
1:E:594:ASP:OD1	1:E:595:VAL:N	2.18	0.74
1:L:497:ASN:HB3	1:L:498:SER:HA	1.69	0.74
1:P:594:ASP:OD1	1:P:595:VAL:N	2.18	0.74
1:k:497:ASN:HB3	1:k:498:SER:HA	1.69	0.74
1:q:701:THR:HG23	1:q:703:ASN:H	1.52	0.74
1:B:701:THR:HG23	1:B:703:ASN:H	1.52	0.74
1:H:594:ASP:OD1	1:H:595:VAL:N	2.18	0.74
1:W:701:THR:HG23	1:W:703:ASN:H	1.52	0.74
1:n:701:THR:HG23	1:n:703:ASN:H	1.52	0.74
1:s:594:ASP:OD1	1:s:595:VAL:N	2.18	0.74
1:7:497:ASN:HB3	1:7:498:SER:HA	1.69	0.74
1:E:701:THR:HG23	1:E:703:ASN:H	1.52	0.74
1:N:701:THR:HG23	1:N:703:ASN:H	1.52	0.74
1:b:701:THR:HG23	1:b:703:ASN:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:701:THR:HG23	1:f:703:ASN:H	1.52	0.74
1:h:497:ASN:HB3	1:h:498:SER:HA	1.69	0.74
1:q:541:ILE:HG21	1:s:443:TYR:HB2	1.69	0.74
1:7:701:THR:HG23	1:7:703:ASN:H	1.52	0.74
1:8:594:ASP:OD1	1:8:595:VAL:N	2.18	0.74
1:A:701:THR:HG23	1:A:703:ASN:H	1.52	0.74
1:G:701:THR:HG23	1:G:703:ASN:H	1.52	0.74
1:X:701:THR:HG23	1:X:703:ASN:H	1.52	0.74
1:a:701:THR:HG23	1:a:703:ASN:H	1.52	0.74
1:c:484:ARG:NH2	1:p:581:THR:O	2.20	0.74
1:j:701:THR:HG23	1:j:703:ASN:H	1.52	0.74
1:o:701:THR:HG23	1:o:703:ASN:H	1.52	0.74
1:p:701:THR:HG23	1:p:703:ASN:H	1.52	0.74
1:x:701:THR:HG23	1:x:703:ASN:H	1.52	0.74
1:2:497:ASN:HB3	1:2:498:SER:HA	1.69	0.74
1:4:701:THR:HG23	1:4:703:ASN:H	1.52	0.74
1:C:701:THR:HG23	1:C:703:ASN:H	1.52	0.74
1:I:497:ASN:HB3	1:I:498:SER:HA	1.69	0.74
1:Z:701:THR:HG23	1:Z:703:ASN:H	1.52	0.74
1:m:701:THR:HG23	1:m:703:ASN:H	1.52	0.74
1:6:701:THR:HG23	1:6:703:ASN:H	1.52	0.74
1:F:701:THR:HG23	1:F:703:ASN:H	1.52	0.74
1:L:701:THR:HG23	1:L:703:ASN:H	1.52	0.74
1:c:497:ASN:HB3	1:c:498:SER:HA	1.69	0.74
1:C:487:ARG:O	1:M:584:GLN:NE2	2.15	0.74
1:O:701:THR:HG23	1:O:703:ASN:H	1.52	0.74
1:U:701:THR:HG23	1:U:703:ASN:H	1.52	0.74
1:a:429:SER:HA	1:a:567:THR:HG23	1.70	0.74
1:d:497:ASN:HB3	1:d:498:SER:HA	1.69	0.74
1:1:701:THR:HG23	1:1:703:ASN:H	1.52	0.74
1:N:429:SER:HA	1:N:567:THR:HG23	1.70	0.74
1:O:429:SER:HA	1:O:567:THR:HG23	1.70	0.74
1:Q:497:ASN:HB3	1:Q:498:SER:HA	1.69	0.74
1:y:701:THR:HG23	1:y:703:ASN:H	1.52	0.74
1:3:701:THR:HG23	1:3:703:ASN:H	1.52	0.74
1:5:497:ASN:HB3	1:5:498:SER:HA	1.69	0.74
1:6:443:TYR:HB2	1:7:541:ILE:HG21	1.70	0.74
1:G:497:ASN:HB3	1:G:498:SER:HA	1.69	0.74
1:T:701:THR:HG23	1:T:703:ASN:H	1.52	0.74
1:V:701:THR:HG23	1:V:703:ASN:H	1.52	0.74
1:g:701:THR:HG23	1:g:703:ASN:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:497:ASN:HB3	1:p:498:SER:HA	1.69	0.74
1:v:701:THR:HG23	1:v:703:ASN:H	1.52	0.74
1:3:429:SER:HA	1:3:567:THR:HG23	1.70	0.74
1:H:429:SER:HA	1:H:567:THR:HG23	1.70	0.74
1:J:584:GLN:NE2	1:L:487:ARG:O	2.15	0.74
1:X:497:ASN:HB3	1:X:498:SER:HA	1.69	0.74
1:f:443:TYR:HB2	1:h:541:ILE:HG21	1.70	0.74
1:f:497:ASN:HB3	1:f:498:SER:HA	1.69	0.74
1:i:701:THR:HG23	1:i:703:ASN:H	1.52	0.74
1:j:497:ASN:HB3	1:j:498:SER:HA	1.69	0.74
1:o:497:ASN:HB3	1:o:498:SER:HA	1.69	0.74
1:q:497:ASN:HB3	1:q:498:SER:HA	1.69	0.74
1:y:429:SER:HA	1:y:567:THR:HG23	1.70	0.74
1:G:584:GLN:NE2	1:I:487:ARG:O	2.14	0.73
1:H:701:THR:HG23	1:H:703:ASN:H	1.52	0.73
1:I:429:SER:HA	1:I:567:THR:HG23	1.70	0.73
1:V:429:SER:HA	1:V:567:THR:HG23	1.70	0.73
1:V:443:TYR:HB2	1:e:541:ILE:HG21	1.70	0.73
1:W:429:SER:HA	1:W:567:THR:HG23	1.70	0.73
1:Z:429:SER:HA	1:Z:567:THR:HG23	1.70	0.73
1:Z:497:ASN:HB3	1:Z:498:SER:HA	1.69	0.73
1:c:429:SER:HA	1:c:567:THR:HG23	1.70	0.73
1:l:429:SER:HA	1:l:567:THR:HG23	1.70	0.73
1:m:497:ASN:HB3	1:m:498:SER:HA	1.69	0.73
1:p:326:ASN:HD21	1:6:329:THR:HG22	1.53	0.73
1:q:429:SER:HA	1:q:567:THR:HG23	1.70	0.73
1:s:429:SER:HA	1:s:567:THR:HG23	1.70	0.73
1:v:497:ASN:HB3	1:v:498:SER:HA	1.69	0.73
1:x:497:ASN:HB3	1:x:498:SER:HA	1.69	0.73
1:z:429:SER:HA	1:z:567:THR:HG23	1.70	0.73
1:4:429:SER:HA	1:4:567:THR:HG23	1.70	0.73
1:A:497:ASN:HB3	1:A:498:SER:HA	1.69	0.73
1:B:443:TYR:HB2	1:J:541:ILE:HG21	1.70	0.73
1:M:541:ILE:HG21	1:b:443:TYR:HB2	1.71	0.73
1:T:429:SER:HA	1:T:567:THR:HG23	1.70	0.73
1:U:497:ASN:HB3	1:U:498:SER:HA	1.69	0.73
1:W:497:ASN:HB3	1:W:498:SER:HA	1.69	0.73
1:W:584:GLN:NE2	1:Y:487:ARG:O	2.15	0.73
1:n:429:SER:HA	1:n:567:THR:HG23	1.70	0.73
1:q:584:GLN:NE2	1:r:487:ARG:O	2.15	0.73
1:w:584:GLN:NE2	1:x:487:ARG:O	2.15	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:443:TYR:HB2	1:k:541:ILE:HG21	1.71	0.73
1:m:429:SER:HA	1:m:567:THR:HG23	1.70	0.73
1:E:541:ILE:HG21	1:F:443:TYR:HB2	1.71	0.73
1:J:429:SER:HA	1:J:567:THR:HG23	1.70	0.73
1:K:429:SER:HA	1:K:567:THR:HG23	1.70	0.73
1:O:443:TYR:HB2	1:m:541:ILE:HG21	1.71	0.73
1:O:541:ILE:HG21	1:n:443:TYR:HB2	1.70	0.73
1:Z:541:ILE:HG21	1:3:443:TYR:HB2	1.71	0.73
1:b:429:SER:HA	1:b:567:THR:HG23	1.70	0.73
1:q:443:TYR:HB2	1:r:541:ILE:HG21	1.70	0.73
1:s:701:THR:HG23	1:s:703:ASN:H	1.52	0.73
1:w:497:ASN:HB3	1:w:498:SER:HA	1.69	0.73
1:w:541:ILE:HG21	1:y:443:TYR:HB2	1.71	0.73
1:3:541:ILE:HG21	1:4:443:TYR:HB2	1.70	0.73
1:B:429:SER:HA	1:B:567:THR:HG23	1.70	0.73
1:D:429:SER:HA	1:D:567:THR:HG23	1.70	0.73
1:J:497:ASN:HB3	1:J:498:SER:HA	1.69	0.73
1:P:429:SER:HA	1:P:567:THR:HG23	1.70	0.73
1:X:487:ARG:O	1:e:584:GLN:NE2	2.15	0.73
1:g:429:SER:HA	1:g:567:THR:HG23	1.70	0.73
1:i:429:SER:HA	1:i:567:THR:HG23	1.70	0.73
1:u:497:ASN:HB3	1:u:498:SER:HA	1.69	0.73
1:1:429:SER:HA	1:1:567:THR:HG23	1.70	0.73
1:5:487:ARG:O	1:7:584:GLN:NE2	2.15	0.73
1:8:429:SER:HA	1:8:567:THR:HG23	1.70	0.73
1:8:497:ASN:HB3	1:8:498:SER:HA	1.69	0.73
1:K:497:ASN:HB3	1:K:498:SER:HA	1.69	0.73
1:M:429:SER:HA	1:M:567:THR:HG23	1.70	0.73
1:M:497:ASN:HB3	1:M:498:SER:HA	1.69	0.73
1:P:497:ASN:HB3	1:P:498:SER:HA	1.69	0.73
1:S:497:ASN:HB3	1:S:498:SER:HA	1.69	0.73
1:T:584:GLN:NE2	1:d:487:ARG:O	2.15	0.73
1:e:497:ASN:HB3	1:e:498:SER:HA	1.69	0.73
1:z:541:ILE:HG21	1:2:443:TYR:HB2	1.70	0.73
1:C:443:TYR:HB2	1:b:541:ILE:HG21	1.71	0.73
1:E:584:GLN:NE2	1:Q:487:ARG:O	2.15	0.73
1:X:541:ILE:HG21	1:e:443:TYR:HB2	1.70	0.73
1:g:541:ILE:HG21	1:h:443:TYR:HB2	1.71	0.73
1:t:541:ILE:HG21	1:v:443:TYR:HB2	1.71	0.73
1:w:443:TYR:HB2	1:x:541:ILE:HG21	1.71	0.73
1:A:443:TYR:HB2	1:G:541:ILE:HG21	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:541:ILE:HG21	1:L:443:TYR:HB2	1.71	0.73
1:5:429:SER:HA	1:5:567:THR:HG23	1.70	0.73
1:D:497:ASN:HB3	1:D:498:SER:HA	1.69	0.73
1:I:701:THR:HG23	1:I:703:ASN:H	1.52	0.73
1:Q:429:SER:HA	1:Q:567:THR:HG23	1.70	0.73
1:R:541:ILE:HG21	1:U:443:TYR:HB2	1.71	0.73
1:S:443:TYR:HB2	1:U:541:ILE:HG21	1.70	0.73
1:W:443:TYR:HB2	1:Y:541:ILE:HG21	1.71	0.73
1:Y:429:SER:HA	1:Y:567:THR:HG23	1.70	0.73
1:u:443:TYR:HB2	1:v:541:ILE:HG21	1.71	0.73
1:J:701:THR:HG23	1:J:703:ASN:H	1.52	0.73
1:M:701:THR:HG23	1:M:703:ASN:H	1.52	0.73
1:c:701:THR:HG23	1:c:703:ASN:H	1.52	0.73
1:A:429:SER:HA	1:A:567:THR:HG23	1.70	0.72
1:N:443:TYR:HB2	1:P:541:ILE:HG21	1.70	0.72
1:S:701:THR:HG23	1:S:703:ASN:H	1.52	0.72
1:T:584:GLN:OE1	1:d:486:GLN:NE2	2.22	0.72
1:f:314:LYS:HG2	1:f:410:THR:HG22	1.71	0.72
1:r:429:SER:HA	1:r:567:THR:HG23	1.70	0.72
1:u:701:THR:HG23	1:u:703:ASN:H	1.52	0.72
1:H:443:TYR:HB2	1:W:541:ILE:HG21	1.71	0.72
1:N:497:ASN:HB3	1:N:498:SER:HA	1.69	0.72
1:X:314:LYS:HG2	1:X:410:THR:HG22	1.71	0.72
1:a:443:TYR:HB2	1:8:541:ILE:HG21	1.70	0.72
1:i:541:ILE:HG21	1:k:443:TYR:HB2	1.71	0.72
1:j:314:LYS:HG2	1:j:410:THR:HG22	1.71	0.72
1:o:429:SER:HA	1:o:567:THR:HG23	1.70	0.72
1:r:314:LYS:HG2	1:r:410:THR:HG22	1.71	0.72
1:v:429:SER:HA	1:v:567:THR:HG23	1.70	0.72
1:x:314:LYS:HG2	1:x:410:THR:HG22	1.71	0.72
1:1:584:GLN:OE1	1:2:486:GLN:NE2	2.22	0.72
1:5:584:GLN:NE2	1:6:487:ARG:O	2.15	0.72
1:E:443:TYR:HB2	1:Q:541:ILE:HG21	1.71	0.72
1:K:314:LYS:HG2	1:K:410:THR:HG22	1.71	0.72
1:K:541:ILE:HG21	1:8:443:TYR:HB2	1.70	0.72
1:a:497:ASN:HB3	1:a:498:SER:HA	1.69	0.72
1:n:497:ASN:HB3	1:n:498:SER:HA	1.69	0.72
1:o:314:LYS:HG2	1:o:410:THR:HG22	1.71	0.72
1:4:497:ASN:HB3	1:4:498:SER:HA	1.69	0.72
1:A:314:LYS:HG2	1:A:410:THR:HG22	1.71	0.72
1:D:314:LYS:HG2	1:D:410:THR:HG22	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:541:ILE:HG21	1:P:443:TYR:HB2	1.71	0.72
1:H:314:LYS:HG2	1:H:410:THR:HG22	1.71	0.72
1:L:314:LYS:HG2	1:L:410:THR:HG22	1.72	0.72
1:W:314:LYS:HG2	1:W:410:THR:HG22	1.71	0.72
1:Y:314:LYS:HG2	1:Y:410:THR:HG22	1.72	0.72
1:j:429:SER:HA	1:j:567:THR:HG23	1.70	0.72
1:s:314:LYS:HG2	1:s:410:THR:HG22	1.71	0.72
1:5:541:ILE:HG21	1:7:443:TYR:HB2	1.71	0.72
1:8:701:THR:HG23	1:8:703:ASN:H	1.52	0.72
1:C:314:LYS:HG2	1:C:410:THR:HG22	1.72	0.72
1:F:487:ARG:O	1:Q:584:GLN:NE2	2.15	0.72
1:G:314:LYS:HG2	1:G:410:THR:HG22	1.72	0.72
1:P:701:THR:HG23	1:P:703:ASN:H	1.52	0.72
1:U:429:SER:HA	1:U:567:THR:HG23	1.70	0.72
1:p:314:LYS:HG2	1:p:410:THR:HG22	1.72	0.72
1:u:429:SER:HA	1:u:567:THR:HG23	1.70	0.72
1:w:429:SER:HA	1:w:567:THR:HG23	1.70	0.72
1:S:429:SER:HA	1:S:567:THR:HG23	1.70	0.72
1:T:487:ARG:O	1:l:584:GLN:NE2	2.14	0.72
1:n:314:LYS:HG2	1:n:410:THR:HG22	1.71	0.72
1:q:314:LYS:HG2	1:q:410:THR:HG22	1.72	0.72
1:t:429:SER:HA	1:t:567:THR:HG23	1.70	0.72
1:1:584:GLN:NE2	1:2:487:ARG:O	2.16	0.72
1:4:314:LYS:HG2	1:4:410:THR:HG22	1.71	0.72
1:D:443:TYR:HB2	1:N:541:ILE:HG21	1.70	0.72
1:R:443:TYR:HB2	1:S:541:ILE:HG21	1.71	0.72
1:e:429:SER:HA	1:e:567:THR:HG23	1.70	0.72
1:f:429:SER:HA	1:f:567:THR:HG23	1.70	0.72
1:k:429:SER:HA	1:k:567:THR:HG23	1.70	0.72
1:m:314:LYS:HG2	1:m:410:THR:HG22	1.71	0.72
1:K:584:GLN:NE2	1:a:487:ARG:O	2.15	0.72
1:S:452:SER:HB2	1:S:453:GLY:HA3	1.72	0.72
1:T:443:TYR:HB2	1:d:541:ILE:HG21	1.71	0.72
1:V:584:GLN:NE2	1:e:487:ARG:O	2.15	0.72
1:Z:584:GLN:OE1	1:4:486:GLN:NE2	2.23	0.72
1:p:429:SER:HA	1:p:567:THR:HG23	1.70	0.72
1:w:487:ARG:O	1:y:584:GLN:NE2	2.15	0.72
1:z:487:ARG:O	1:2:584:GLN:NE2	2.15	0.72
1:2:429:SER:HA	1:2:567:THR:HG23	1.70	0.72
1:G:429:SER:HA	1:G:567:THR:HG23	1.70	0.72
1:K:443:TYR:HB2	1:a:541:ILE:HG21	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:429:SER:HA	1:R:567:THR:HG23	1.70	0.72
1:T:541:ILE:HG21	1:l:443:TYR:HB2	1.70	0.72
1:Z:443:TYR:HB2	1:4:541:ILE:HG21	1.71	0.72
1:h:429:SER:HA	1:h:567:THR:HG23	1.70	0.72
1:u:452:SER:HB2	1:u:453:GLY:HA3	1.72	0.72
1:6:452:SER:HB2	1:6:453:GLY:HA3	1.72	0.72
1:7:429:SER:HA	1:7:567:THR:HG23	1.70	0.72
1:C:452:SER:HB2	1:C:453:GLY:HA3	1.72	0.72
1:C:541:ILE:HG21	1:M:443:TYR:HB2	1.70	0.72
1:D:584:GLN:NE2	1:N:487:ARG:O	2.15	0.72
1:F:429:SER:HA	1:F:567:THR:HG23	1.70	0.72
1:J:443:TYR:HB2	1:L:541:ILE:HG21	1.70	0.72
1:R:452:SER:HB2	1:R:453:GLY:HA3	1.72	0.72
1:Z:314:LYS:HG2	1:Z:410:THR:HG22	1.72	0.72
1:m:584:GLN:OE1	1:n:486:GLN:NE2	2.23	0.72
1:t:443:TYR:HB2	1:u:541:ILE:HG21	1.71	0.72
1:t:452:SER:HB2	1:t:453:GLY:HA3	1.72	0.72
1:3:314:LYS:HG2	1:3:410:THR:HG22	1.71	0.72
1:6:429:SER:HA	1:6:567:THR:HG23	1.70	0.72
1:E:429:SER:HA	1:E:567:THR:HG23	1.70	0.71
1:F:452:SER:HB2	1:F:453:GLY:HA3	1.72	0.71
1:F:541:ILE:HG21	1:Q:443:TYR:HB2	1.71	0.71
1:G:443:TYR:HB2	1:I:541:ILE:HG21	1.70	0.71
1:L:452:SER:HB2	1:L:453:GLY:HA3	1.72	0.71
1:O:314:LYS:HG2	1:O:410:THR:HG22	1.71	0.71
1:X:429:SER:HA	1:X:567:THR:HG23	1.70	0.71
1:d:443:TYR:HB2	1:l:541:ILE:HG21	1.72	0.71
1:e:452:SER:HB2	1:e:453:GLY:HA3	1.72	0.71
1:g:487:ARG:O	1:h:584:GLN:NE2	2.15	0.71
1:w:452:SER:HB2	1:w:453:GLY:HA3	1.72	0.71
1:z:584:GLN:NE2	1:1:487:ARG:O	2.14	0.71
1:8:314:LYS:HG2	1:8:410:THR:HG22	1.71	0.71
1:G:584:GLN:OE1	1:I:486:GLN:NE2	2.23	0.71
1:K:452:SER:HB2	1:K:453:GLY:HA3	1.72	0.71
1:N:314:LYS:HG2	1:N:410:THR:HG22	1.71	0.71
1:O:584:GLN:OE1	1:m:486:GLN:NE2	2.23	0.71
1:R:314:LYS:HG2	1:R:410:THR:HG22	1.71	0.71
1:T:452:SER:HB2	1:T:453:GLY:HA3	1.72	0.71
1:a:314:LYS:HG2	1:a:410:THR:HG22	1.71	0.71
1:c:443:TYR:HB2	1:o:541:ILE:HG21	1.72	0.71
1:c:584:GLN:OE1	1:o:486:GLN:NE2	2.22	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:429:SER:HA	1:d:567:THR:HG23	1.70	0.71
1:i:443:TYR:HB2	1:j:541:ILE:HG21	1.70	0.71
1:l:314:LYS:HG2	1:l:410:THR:HG22	1.72	0.71
1:x:429:SER:HA	1:x:567:THR:HG23	1.70	0.71
1:5:443:TYR:HB2	1:6:541:ILE:HG21	1.71	0.71
1:7:314:LYS:HG2	1:7:410:THR:HG22	1.71	0.71
1:D:452:SER:HB2	1:D:453:GLY:HA3	1.72	0.71
1:P:314:LYS:HG2	1:P:410:THR:HG22	1.71	0.71
1:V:486:GLN:NE2	1:X:584:GLN:OE1	2.23	0.71
1:X:486:GLN:NE2	1:e:584:GLN:OE1	2.24	0.71
1:f:541:ILE:HG21	1:g:443:TYR:HB2	1.70	0.71
1:i:584:GLN:NE2	1:j:487:ARG:O	2.15	0.71
1:r:584:GLN:NE2	1:s:487:ARG:O	2.15	0.71
1:x:584:GLN:OE1	1:y:486:GLN:NE2	2.23	0.71
1:1:452:SER:HB2	1:1:453:GLY:HA3	1.72	0.71
1:C:429:SER:HA	1:C:567:THR:HG23	1.70	0.71
1:O:487:ARG:O	1:n:584:GLN:NE2	2.15	0.71
1:Z:486:GLN:NE2	1:3:584:GLN:OE1	2.23	0.71
1:h:452:SER:HB2	1:h:453:GLY:HA3	1.72	0.71
1:o:452:SER:HB2	1:o:453:GLY:HA3	1.72	0.71
1:p:452:SER:HB2	1:p:453:GLY:HA3	1.72	0.71
1:t:314:LYS:HG2	1:t:410:THR:HG22	1.72	0.71
1:z:314:LYS:HG2	1:z:410:THR:HG22	1.72	0.71
1:6:584:GLN:NE2	1:7:487:ARG:O	2.15	0.71
1:E:314:LYS:HG2	1:E:410:THR:HG22	1.72	0.71
1:G:452:SER:HB2	1:G:453:GLY:HA3	1.72	0.71
1:f:486:GLN:NE2	1:g:584:GLN:OE1	2.24	0.71
1:i:584:GLN:OE1	1:j:486:GLN:NE2	2.24	0.71
1:k:452:SER:HB2	1:k:453:GLY:HA3	1.72	0.71
1:w:486:GLN:NE2	1:y:584:GLN:OE1	2.24	0.71
1:x:443:TYR:HB2	1:y:541:ILE:HG21	1.70	0.71
1:3:625:ASP:OD1	1:3:625:ASP:N	2.23	0.71
1:6:314:LYS:HG2	1:6:410:THR:HG22	1.71	0.71
1:7:452:SER:HB2	1:7:453:GLY:HA3	1.72	0.71
1:A:452:SER:HB2	1:A:453:GLY:HA3	1.72	0.71
1:O:625:ASP:OD1	1:O:625:ASP:N	2.23	0.71
1:Q:452:SER:HB2	1:Q:453:GLY:HA3	1.72	0.71
1:T:484:ARG:NH2	1:l:581:THR:O	2.24	0.71
1:T:625:ASP:OD1	1:T:625:ASP:N	2.23	0.71
1:V:584:GLN:OE1	1:e:486:GLN:NE2	2.24	0.71
1:d:314:LYS:HG2	1:d:410:THR:HG22	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:584:GLN:OE1	1:u:486:GLN:NE2	2.23	0.71
1:w:584:GLN:OE1	1:x:486:GLN:NE2	2.24	0.71
1:2:314:LYS:HG2	1:2:410:THR:HG22	1.71	0.71
1:A:486:GLN:NE2	1:I:584:GLN:OE1	2.23	0.71
1:E:452:SER:HB2	1:E:453:GLY:HA3	1.72	0.71
1:F:314:LYS:HG2	1:F:410:THR:HG22	1.71	0.71
1:H:487:ARG:O	1:Y:584:GLN:NE2	2.15	0.71
1:f:584:GLN:OE1	1:h:486:GLN:NE2	2.23	0.71
1:j:584:GLN:OE1	1:k:486:GLN:NE2	2.23	0.71
1:m:443:TYR:HB2	1:n:541:ILE:HG21	1.72	0.71
1:1:625:ASP:OD1	1:1:625:ASP:N	2.23	0.71
1:4:452:SER:HB2	1:4:453:GLY:HA3	1.72	0.71
1:A:584:GLN:OE1	1:G:486:GLN:NE2	2.23	0.71
1:B:314:LYS:HG2	1:B:410:THR:HG22	1.71	0.71
1:D:486:GLN:NE2	1:P:584:GLN:OE1	2.24	0.71
1:J:314:LYS:HG2	1:J:410:THR:HG22	1.71	0.71
1:L:429:SER:HA	1:L:567:THR:HG23	1.70	0.71
1:R:584:GLN:OE1	1:S:486:GLN:NE2	2.23	0.71
1:S:584:GLN:OE1	1:U:486:GLN:NE2	2.24	0.71
1:V:314:LYS:HG2	1:V:410:THR:HG22	1.72	0.71
1:V:541:ILE:HG21	1:X:443:TYR:HB2	1.71	0.71
1:c:634:MET:HG2	1:p:476:ASN:HB3	1.71	0.71
1:e:625:ASP:OD1	1:e:625:ASP:N	2.23	0.71
1:i:452:SER:HB2	1:i:453:GLY:HA3	1.72	0.71
1:i:487:ARG:O	1:k:584:GLN:NE2	2.15	0.71
1:n:452:SER:HB2	1:n:453:GLY:HA3	1.72	0.71
1:u:584:GLN:OE1	1:v:486:GLN:NE2	2.24	0.71
1:y:314:LYS:HG2	1:y:410:THR:HG22	1.71	0.71
1:y:452:SER:HB2	1:y:453:GLY:HA3	1.72	0.71
1:1:443:TYR:HB2	1:2:541:ILE:HG21	1.72	0.71
1:F:486:GLN:NE2	1:Q:584:GLN:OE1	2.23	0.71
1:M:314:LYS:HG2	1:M:410:THR:HG22	1.71	0.71
1:N:584:GLN:NE2	1:P:487:ARG:O	2.15	0.71
1:a:584:GLN:NE2	1:8:487:ARG:O	2.15	0.71
1:e:314:LYS:HG2	1:e:410:THR:HG22	1.71	0.71
1:f:487:ARG:O	1:g:584:GLN:NE2	2.16	0.71
1:g:452:SER:HB2	1:g:453:GLY:HA3	1.72	0.71
1:r:584:GLN:OE1	1:s:486:GLN:NE2	2.22	0.71
1:w:314:LYS:HG2	1:w:410:THR:HG22	1.71	0.71
1:w:625:ASP:OD1	1:w:625:ASP:N	2.23	0.71
1:z:581:THR:O	1:1:484:ARG:NH2	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:486:GLN:NE2	1:4:584:GLN:OE1	2.23	0.71
1:5:452:SER:HB2	1:5:453:GLY:HA3	1.72	0.71
1:C:584:GLN:OE1	1:b:486:GLN:NE2	2.23	0.71
1:H:584:GLN:OE1	1:W:486:GLN:NE2	2.24	0.71
1:I:314:LYS:HG2	1:I:410:THR:HG22	1.72	0.71
1:K:486:GLN:NE2	1:8:584:GLN:OE1	2.24	0.71
1:N:584:GLN:OE1	1:P:486:GLN:NE2	2.23	0.71
1:V:452:SER:HB2	1:V:453:GLY:HA3	1.72	0.71
1:W:452:SER:HB2	1:W:453:GLY:HA3	1.72	0.71
1:W:584:GLN:OE1	1:Y:486:GLN:NE2	2.23	0.71
1:b:314:LYS:HG2	1:b:410:THR:HG22	1.71	0.71
1:c:314:LYS:HG2	1:c:410:THR:HG22	1.72	0.71
1:q:584:GLN:OE1	1:r:486:GLN:NE2	2.24	0.71
1:y:625:ASP:OD1	1:y:625:ASP:N	2.23	0.71
1:B:486:GLN:NE2	1:L:584:GLN:OE1	2.23	0.70
1:E:486:GLN:NE2	1:F:584:GLN:OE1	2.24	0.70
1:I:625:ASP:OD1	1:I:625:ASP:N	2.23	0.70
1:J:452:SER:HB2	1:J:453:GLY:HA3	1.72	0.70
1:S:584:GLN:NE2	1:U:487:ARG:O	2.15	0.70
1:V:625:ASP:OD1	1:V:625:ASP:N	2.23	0.70
1:a:584:GLN:OE1	1:8:486:GLN:NE2	2.23	0.70
1:c:625:ASP:OD1	1:c:625:ASP:N	2.23	0.70
1:d:584:GLN:OE1	1:l:486:GLN:NE2	2.24	0.70
1:6:584:GLN:OE1	1:7:486:GLN:NE2	2.24	0.70
1:R:487:ARG:O	1:U:584:GLN:NE2	2.15	0.70
1:t:487:ARG:O	1:v:584:GLN:NE2	2.15	0.70
1:u:314:LYS:HG2	1:u:410:THR:HG22	1.71	0.70
1:v:314:LYS:HG2	1:v:410:THR:HG22	1.71	0.70
1:8:452:SER:HB2	1:8:453:GLY:HA3	1.72	0.70
1:E:584:GLN:OE1	1:Q:486:GLN:NE2	2.23	0.70
1:F:625:ASP:OD1	1:F:625:ASP:N	2.23	0.70
1:H:486:GLN:NE2	1:Y:584:GLN:OE1	2.23	0.70
1:M:486:GLN:NE2	1:b:584:GLN:OE1	2.24	0.70
1:O:486:GLN:NE2	1:n:584:GLN:OE1	2.24	0.70
1:P:452:SER:HB2	1:P:453:GLY:HA3	1.72	0.70
1:R:486:GLN:NE2	1:U:584:GLN:OE1	2.23	0.70
1:T:486:GLN:NE2	1:l:584:GLN:OE1	2.23	0.70
1:U:314:LYS:HG2	1:U:410:THR:HG22	1.71	0.70
1:W:581:THR:O	1:Y:484:ARG:NH2	2.25	0.70
1:a:452:SER:HB2	1:a:453:GLY:HA3	1.72	0.70
1:g:486:GLN:NE2	1:h:584:GLN:OE1	2.23	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:486:GLN:NE2	1:k:584:GLN:OE1	2.24	0.70
1:q:452:SER:HB2	1:q:453:GLY:HA3	1.72	0.70
1:3:487:ARG:O	1:4:584:GLN:NE2	2.16	0.70
1:S:314:LYS:HG2	1:S:410:THR:HG22	1.71	0.70
1:W:252:TYR:OH	1:W:372:VAL:O	2.10	0.70
1:f:452:SER:HB2	1:f:453:GLY:HA3	1.72	0.70
1:f:581:THR:O	1:h:484:ARG:NH2	2.25	0.70
1:h:314:LYS:HG2	1:h:410:THR:HG22	1.71	0.70
1:q:252:TYR:OH	1:q:372:VAL:O	2.10	0.70
1:t:484:ARG:NH2	1:v:581:THR:O	2.24	0.70
1:t:486:GLN:NE2	1:v:584:GLN:OE1	2.23	0.70
1:t:584:GLN:NE2	1:u:487:ARG:O	2.15	0.70
1:z:443:TYR:HB2	1:1:541:ILE:HG21	1.72	0.70
1:z:584:GLN:OE1	1:1:486:GLN:NE2	2.23	0.70
1:B:584:GLN:OE1	1:J:486:GLN:NE2	2.24	0.70
1:C:486:GLN:NE2	1:M:584:GLN:OE1	2.23	0.70
1:J:584:GLN:OE1	1:L:486:GLN:NE2	2.23	0.70
1:M:452:SER:HB2	1:M:453:GLY:HA3	1.72	0.70
1:N:452:SER:HB2	1:N:453:GLY:HA3	1.72	0.70
1:T:314:LYS:HG2	1:T:410:THR:HG22	1.71	0.70
1:Z:452:SER:HB2	1:Z:453:GLY:HA3	1.72	0.70
1:Z:484:ARG:NH2	1:3:581:THR:O	2.25	0.70
1:j:581:THR:O	1:k:484:ARG:NH2	2.25	0.70
1:q:581:THR:O	1:r:484:ARG:NH2	2.25	0.70
1:5:486:GLN:NE2	1:7:584:GLN:OE1	2.23	0.70
1:5:584:GLN:OE1	1:6:486:GLN:NE2	2.23	0.70
1:6:625:ASP:OD1	1:6:625:ASP:N	2.23	0.70
1:B:452:SER:HB2	1:B:453:GLY:HA3	1.72	0.70
1:H:541:ILE:HG21	1:Y:443:TYR:HB2	1.71	0.70
1:Q:314:LYS:HG2	1:Q:410:THR:HG22	1.71	0.70
1:R:484:ARG:NH2	1:U:581:THR:O	2.25	0.70
1:c:326:ASN:HD21	1:s:329:THR:HG22	1.55	0.70
1:e:252:TYR:OH	1:e:372:VAL:O	2.10	0.70
1:g:454:THR:HG23	1:g:455:THR:HG23	1.74	0.70
1:i:454:THR:HG23	1:i:455:THR:HG23	1.74	0.70
1:k:314:LYS:HG2	1:k:410:THR:HG22	1.72	0.70
1:2:452:SER:HB2	1:2:453:GLY:HA3	1.72	0.70
1:3:252:TYR:OH	1:3:372:VAL:O	2.10	0.70
1:4:252:TYR:OH	1:4:372:VAL:O	2.10	0.70
1:A:454:THR:HG23	1:A:455:THR:HG23	1.74	0.70
1:B:584:GLN:NE2	1:J:487:ARG:O	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:252:TYR:OH	1:C:372:VAL:O	2.10	0.70
1:I:452:SER:HB2	1:I:453:GLY:HA3	1.72	0.70
1:O:252:TYR:OH	1:O:372:VAL:O	2.10	0.70
1:V:454:THR:HG23	1:V:455:THR:HG23	1.74	0.70
1:d:452:SER:HB2	1:d:453:GLY:HA3	1.72	0.70
1:j:452:SER:HB2	1:j:453:GLY:HA3	1.72	0.70
1:n:252:TYR:OH	1:n:372:VAL:O	2.10	0.70
1:w:252:TYR:OH	1:w:372:VAL:O	2.10	0.70
1:z:484:ARG:NH2	1:2:581:THR:O	2.24	0.70
1:1:314:LYS:HG2	1:1:410:THR:HG22	1.72	0.70
1:5:241:THR:HG21	1:5:290:HIS:HB3	1.74	0.70
1:5:314:LYS:HG2	1:5:410:THR:HG22	1.71	0.70
1:D:584:GLN:OE1	1:N:486:GLN:NE2	2.24	0.70
1:K:584:GLN:OE1	1:a:486:GLN:NE2	2.24	0.70
1:L:252:TYR:OH	1:L:372:VAL:O	2.10	0.70
1:O:484:ARG:NH2	1:n:581:THR:O	2.25	0.70
1:W:454:THR:HG23	1:W:455:THR:HG23	1.74	0.70
1:X:241:THR:HG21	1:X:290:HIS:HB3	1.74	0.70
1:b:452:SER:HB2	1:b:453:GLY:HA3	1.72	0.70
1:d:252:TYR:OH	1:d:372:VAL:O	2.10	0.70
1:e:263:GLN:HG3	1:e:265:GLY:H	1.57	0.70
1:o:454:THR:HG23	1:o:455:THR:HG23	1.74	0.70
1:q:454:THR:HG23	1:q:455:THR:HG23	1.74	0.70
1:u:584:GLN:NE2	1:v:487:ARG:O	2.16	0.70
1:x:241:THR:HG21	1:x:290:HIS:HB3	1.74	0.70
1:y:454:THR:HG23	1:y:455:THR:HG23	1.74	0.70
1:2:252:TYR:OH	1:2:372:VAL:O	2.10	0.70
1:B:484:ARG:NH2	1:L:581:THR:O	2.25	0.70
1:C:581:THR:O	1:b:484:ARG:NH2	2.25	0.70
1:C:584:GLN:NE2	1:b:487:ARG:O	2.15	0.70
1:D:484:ARG:NH2	1:P:581:THR:O	2.25	0.70
1:E:252:TYR:OH	1:E:372:VAL:O	2.10	0.70
1:G:263:GLN:HG3	1:G:265:GLY:H	1.57	0.70
1:K:484:ARG:NH2	1:8:581:THR:O	2.25	0.70
1:O:581:THR:O	1:m:484:ARG:NH2	2.25	0.70
1:P:454:THR:HG23	1:P:455:THR:HG23	1.74	0.70
1:Q:241:THR:HG21	1:Q:290:HIS:HB3	1.74	0.70
1:Q:263:GLN:HG3	1:Q:265:GLY:H	1.57	0.70
1:f:252:TYR:OH	1:f:372:VAL:O	2.10	0.70
1:m:452:SER:HB2	1:m:453:GLY:HA3	1.72	0.70
1:o:584:GLN:OE1	1:p:486:GLN:NE2	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:263:GLN:HG3	1:p:265:GLY:H	1.57	0.70
1:r:443:TYR:HB2	1:s:541:ILE:HG21	1.72	0.70
1:v:452:SER:HB2	1:v:453:GLY:HA3	1.72	0.70
1:w:263:GLN:HG3	1:w:265:GLY:H	1.57	0.70
1:2:470:ILE:HG22	1:2:471:ARG:H	1.57	0.70
1:5:263:GLN:HG3	1:5:265:GLY:H	1.57	0.70
1:7:252:TYR:OH	1:7:372:VAL:O	2.10	0.70
1:8:454:THR:HG23	1:8:455:THR:HG23	1.74	0.70
1:B:487:ARG:O	1:L:584:GLN:NE2	2.15	0.70
1:C:263:GLN:HG3	1:C:265:GLY:H	1.57	0.70
1:D:252:TYR:OH	1:D:372:VAL:O	2.10	0.70
1:E:241:THR:HG21	1:E:290:HIS:HB3	1.74	0.70
1:I:470:ILE:HG22	1:I:471:ARG:H	1.57	0.70
1:J:252:TYR:OH	1:J:372:VAL:O	2.10	0.70
1:V:470:ILE:HG22	1:V:471:ARG:H	1.57	0.70
1:Z:581:THR:O	1:4:484:ARG:NH2	2.25	0.70
1:i:314:LYS:HG2	1:i:410:THR:HG22	1.71	0.70
1:j:252:TYR:OH	1:j:372:VAL:O	2.10	0.70
1:m:252:TYR:OH	1:m:372:VAL:O	2.10	0.70
1:n:454:THR:HG23	1:n:455:THR:HG23	1.74	0.70
1:r:241:THR:HG21	1:r:290:HIS:HB3	1.74	0.70
1:x:581:THR:O	1:y:484:ARG:NH2	2.25	0.70
1:y:470:ILE:HG22	1:y:471:ARG:H	1.57	0.70
1:3:452:SER:HB2	1:3:453:GLY:HA3	1.72	0.70
1:6:581:THR:O	1:7:484:ARG:NH2	2.25	0.70
1:7:241:THR:HG21	1:7:290:HIS:HB3	1.74	0.70
1:C:470:ILE:HG22	1:C:471:ARG:H	1.57	0.69
1:K:252:TYR:OH	1:K:372:VAL:O	2.10	0.69
1:L:263:GLN:HG3	1:L:265:GLY:H	1.57	0.69
1:L:470:ILE:HG22	1:L:471:ARG:H	1.57	0.69
1:M:252:TYR:OH	1:M:372:VAL:O	2.10	0.69
1:M:487:ARG:O	1:b:584:GLN:NE2	2.16	0.69
1:O:452:SER:HB2	1:O:453:GLY:HA3	1.72	0.69
1:O:454:THR:HG23	1:O:455:THR:HG23	1.74	0.69
1:R:470:ILE:HG22	1:R:471:ARG:H	1.57	0.69
1:T:454:THR:HG23	1:T:455:THR:HG23	1.74	0.69
1:U:452:SER:HB2	1:U:453:GLY:HA3	1.72	0.69
1:W:263:GLN:HG3	1:W:265:GLY:H	1.57	0.69
1:Y:241:THR:HG21	1:Y:290:HIS:HB3	1.74	0.69
1:Z:252:TYR:OH	1:Z:372:VAL:O	2.10	0.69
1:c:452:SER:HB2	1:c:453:GLY:HA3	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:470:ILE:HG22	1:c:471:ARG:H	1.57	0.69
1:d:470:ILE:HG22	1:d:471:ARG:H	1.57	0.69
1:g:314:LYS:HG2	1:g:410:THR:HG22	1.71	0.69
1:h:470:ILE:HG22	1:h:471:ARG:H	1.57	0.69
1:r:252:TYR:OH	1:r:372:VAL:O	2.10	0.69
1:3:454:THR:HG23	1:3:455:THR:HG23	1.74	0.69
1:4:454:THR:HG23	1:4:455:THR:HG23	1.74	0.69
1:D:454:THR:HG23	1:D:455:THR:HG23	1.74	0.69
1:G:581:THR:O	1:I:484:ARG:NH2	2.25	0.69
1:H:252:TYR:OH	1:H:372:VAL:O	2.10	0.69
1:K:454:THR:HG23	1:K:455:THR:HG23	1.74	0.69
1:L:454:THR:HG23	1:L:455:THR:HG23	1.74	0.69
1:M:484:ARG:NH2	1:b:581:THR:O	2.25	0.69
1:R:645:GLN:O	1:R:646:ILE:HG13	1.93	0.69
1:U:241:THR:HG21	1:U:290:HIS:HB3	1.74	0.69
1:U:263:GLN:HG3	1:U:265:GLY:H	1.57	0.69
1:X:452:SER:HB2	1:X:453:GLY:HA3	1.72	0.69
1:Y:252:TYR:OH	1:Y:372:VAL:O	2.10	0.69
1:a:581:THR:O	1:8:484:ARG:NH2	2.25	0.69
1:g:484:ARG:NH2	1:h:581:THR:O	2.25	0.69
1:l:241:THR:HG21	1:l:290:HIS:HB3	1.74	0.69
1:q:486:GLN:NE2	1:s:584:GLN:OE1	2.24	0.69
1:s:252:TYR:OH	1:s:372:VAL:O	2.10	0.69
1:t:645:GLN:O	1:t:646:ILE:HG13	1.93	0.69
1:v:241:THR:HG21	1:v:290:HIS:HB3	1.74	0.69
1:v:263:GLN:HG3	1:v:265:GLY:H	1.57	0.69
1:x:452:SER:HB2	1:x:453:GLY:HA3	1.72	0.69
1:z:241:THR:HG21	1:z:290:HIS:HB3	1.74	0.69
1:1:454:THR:HG23	1:1:455:THR:HG23	1.74	0.69
1:2:263:GLN:HG3	1:2:265:GLY:H	1.57	0.69
1:6:645:GLN:O	1:6:646:ILE:HG13	1.93	0.69
1:A:470:ILE:HG22	1:A:471:ARG:H	1.57	0.69
1:C:454:THR:HG23	1:C:455:THR:HG23	1.74	0.69
1:F:241:THR:HG21	1:F:290:HIS:HB3	1.74	0.69
1:F:645:GLN:O	1:F:646:ILE:HG13	1.93	0.69
1:I:252:TYR:OH	1:I:372:VAL:O	2.10	0.69
1:N:291:PHE:O	1:N:292:SER:OG	2.09	0.69
1:Y:645:GLN:O	1:Y:646:ILE:HG13	1.93	0.69
1:d:263:GLN:HG3	1:d:265:GLY:H	1.57	0.69
1:e:241:THR:HG21	1:e:290:HIS:HB3	1.74	0.69
1:k:470:ILE:HG22	1:k:471:ARG:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:581:THR:O	1:n:484:ARG:NH2	2.26	0.69
1:r:454:THR:HG23	1:r:455:THR:HG23	1.74	0.69
1:r:645:GLN:O	1:r:646:ILE:HG13	1.93	0.69
1:v:252:TYR:OH	1:v:372:VAL:O	2.10	0.69
1:z:470:ILE:HG22	1:z:471:ARG:H	1.57	0.69
1:5:484:ARG:NH2	1:7:581:THR:O	2.25	0.69
1:B:581:THR:O	1:J:484:ARG:NH2	2.26	0.69
1:E:581:THR:O	1:Q:484:ARG:NH2	2.25	0.69
1:F:470:ILE:HG22	1:F:471:ARG:H	1.57	0.69
1:G:437:LEU:HD13	1:I:374:GLN:HE21	1.57	0.69
1:G:454:THR:HG23	1:G:455:THR:HG23	1.74	0.69
1:H:645:GLN:O	1:H:646:ILE:HG13	1.93	0.69
1:K:241:THR:HG21	1:K:290:HIS:HB3	1.74	0.69
1:N:263:GLN:HG3	1:N:265:GLY:H	1.57	0.69
1:N:571:VAL:HG12	1:N:572:ALA:H	1.58	0.69
1:N:581:THR:O	1:P:484:ARG:NH2	2.25	0.69
1:U:645:GLN:O	1:U:646:ILE:HG13	1.93	0.69
1:W:291:PHE:O	1:W:292:SER:OG	2.09	0.69
1:g:470:ILE:HG22	1:g:471:ARG:H	1.57	0.69
1:h:645:GLN:O	1:h:646:ILE:HG13	1.93	0.69
1:l:452:SER:HB2	1:l:453:GLY:HA3	1.72	0.69
1:l:454:THR:HG23	1:l:455:THR:HG23	1.74	0.69
1:l:470:ILE:HG22	1:l:471:ARG:H	1.57	0.69
1:o:470:ILE:HG22	1:o:471:ARG:H	1.57	0.69
1:p:454:THR:HG23	1:p:455:THR:HG23	1.74	0.69
1:q:263:GLN:HG3	1:q:265:GLY:H	1.57	0.69
1:r:581:THR:O	1:s:484:ARG:NH2	2.24	0.69
1:s:645:GLN:O	1:s:646:ILE:HG13	1.93	0.69
1:t:470:ILE:HG22	1:t:471:ARG:H	1.57	0.69
1:v:645:GLN:O	1:v:646:ILE:HG13	1.93	0.69
1:w:241:THR:HG21	1:w:290:HIS:HB3	1.74	0.69
1:w:470:ILE:HG22	1:w:471:ARG:H	1.57	0.69
1:1:252:TYR:OH	1:1:372:VAL:O	2.10	0.69
1:2:291:PHE:O	1:2:292:SER:OG	2.09	0.69
1:6:470:ILE:HG22	1:6:471:ARG:H	1.57	0.69
1:A:252:TYR:OH	1:A:372:VAL:O	2.10	0.69
1:D:241:THR:HG21	1:D:290:HIS:HB3	1.74	0.69
1:I:645:GLN:O	1:I:646:ILE:HG13	1.93	0.69
1:R:241:THR:HG21	1:R:290:HIS:HB3	1.74	0.69
1:U:252:TYR:OH	1:U:372:VAL:O	2.10	0.69
1:Y:452:SER:HB2	1:Y:453:GLY:HA3	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:454:THR:HG23	1:Y:455:THR:HG23	1.74	0.69
1:a:263:GLN:HG3	1:a:265:GLY:H	1.57	0.69
1:b:645:GLN:O	1:b:646:ILE:HG13	1.93	0.69
1:c:252:TYR:OH	1:c:372:VAL:O	2.10	0.69
1:e:454:THR:HG23	1:e:455:THR:HG23	1.74	0.69
1:e:470:ILE:HG22	1:e:471:ARG:H	1.57	0.69
1:i:470:ILE:HG22	1:i:471:ARG:H	1.57	0.69
1:n:645:GLN:O	1:n:646:ILE:HG13	1.93	0.69
1:p:252:TYR:OH	1:p:372:VAL:O	2.10	0.69
1:q:291:PHE:O	1:q:292:SER:OG	2.09	0.69
1:r:452:SER:HB2	1:r:453:GLY:HA3	1.72	0.69
1:w:581:THR:O	1:x:484:ARG:NH2	2.25	0.69
1:z:374:GLN:HE21	1:2:437:LEU:HD13	1.58	0.69
1:z:454:THR:HG23	1:z:455:THR:HG23	1.74	0.69
1:4:645:GLN:O	1:4:646:ILE:HG13	1.93	0.69
1:6:241:THR:HG21	1:6:290:HIS:HB3	1.74	0.69
1:7:454:THR:HG23	1:7:455:THR:HG23	1.74	0.69
1:B:645:GLN:O	1:B:646:ILE:HG13	1.93	0.69
1:D:581:THR:O	1:N:484:ARG:NH2	2.25	0.69
1:G:252:TYR:OH	1:G:372:VAL:O	2.10	0.69
1:Q:252:TYR:OH	1:Q:372:VAL:O	2.10	0.69
1:R:581:THR:O	1:S:484:ARG:NH2	2.25	0.69
1:T:252:TYR:OH	1:T:372:VAL:O	2.10	0.69
1:V:484:ARG:NH2	1:X:581:THR:O	2.25	0.69
1:a:571:VAL:HG12	1:a:572:ALA:H	1.58	0.69
1:c:645:GLN:O	1:c:646:ILE:HG13	1.93	0.69
1:d:241:THR:HG21	1:d:290:HIS:HB3	1.74	0.69
1:d:291:PHE:O	1:d:292:SER:OG	2.09	0.69
1:g:252:TYR:OH	1:g:372:VAL:O	2.10	0.69
1:i:252:TYR:OH	1:i:372:VAL:O	2.10	0.69
1:k:645:GLN:O	1:k:646:ILE:HG13	1.93	0.69
1:m:241:THR:HG21	1:m:290:HIS:HB3	1.74	0.69
1:t:241:THR:HG21	1:t:290:HIS:HB3	1.74	0.69
1:1:263:GLN:HG3	1:1:265:GLY:H	1.57	0.69
1:1:571:VAL:HG12	1:1:572:ALA:H	1.58	0.69
1:B:252:TYR:OH	1:B:372:VAL:O	2.10	0.69
1:E:263:GLN:HG3	1:E:265:GLY:H	1.57	0.69
1:H:452:SER:HB2	1:H:453:GLY:HA3	1.72	0.69
1:M:645:GLN:O	1:M:646:ILE:HG13	1.93	0.69
1:O:374:GLN:HE21	1:n:437:LEU:HD13	1.58	0.69
1:S:581:THR:O	1:U:484:ARG:NH2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:263:GLN:HG3	1:T:265:GLY:H	1.57	0.69
1:T:470:ILE:HG22	1:T:471:ARG:H	1.57	0.69
1:X:252:TYR:OH	1:X:372:VAL:O	2.10	0.69
1:Z:241:THR:HG21	1:Z:290:HIS:HB3	1.74	0.69
1:Z:625:ASP:OD1	1:Z:625:ASP:N	2.23	0.69
1:b:252:TYR:OH	1:b:372:VAL:O	2.10	0.69
1:i:581:THR:O	1:j:484:ARG:NH2	2.25	0.69
1:o:252:TYR:OH	1:o:372:VAL:O	2.10	0.69
1:q:645:GLN:O	1:q:646:ILE:HG13	1.93	0.69
1:s:263:GLN:HG3	1:s:265:GLY:H	1.57	0.69
1:u:470:ILE:HG22	1:u:471:ARG:H	1.57	0.69
1:w:454:THR:HG23	1:w:455:THR:HG23	1.74	0.69
1:2:241:THR:HG21	1:2:290:HIS:HB3	1.74	0.69
1:3:484:ARG:NH2	1:4:581:THR:O	2.26	0.69
1:5:252:TYR:OH	1:5:372:VAL:O	2.10	0.69
1:8:252:TYR:OH	1:8:372:VAL:O	2.10	0.69
1:A:241:THR:HG21	1:A:290:HIS:HB3	1.74	0.69
1:B:241:THR:HG21	1:B:290:HIS:HB3	1.74	0.69
1:C:241:THR:HG21	1:C:290:HIS:HB3	1.74	0.69
1:C:484:ARG:NH2	1:M:581:THR:O	2.25	0.69
1:C:571:VAL:HG12	1:C:572:ALA:H	1.58	0.69
1:E:454:THR:HG23	1:E:455:THR:HG23	1.74	0.69
1:E:484:ARG:NH2	1:F:581:THR:O	2.26	0.69
1:F:252:TYR:OH	1:F:372:VAL:O	2.10	0.69
1:H:581:THR:O	1:W:484:ARG:NH2	2.26	0.69
1:J:571:VAL:HG12	1:J:572:ALA:H	1.58	0.69
1:J:581:THR:O	1:L:484:ARG:NH2	2.25	0.69
1:J:645:GLN:O	1:J:646:ILE:HG13	1.93	0.69
1:K:581:THR:O	1:a:484:ARG:NH2	2.25	0.69
1:L:571:VAL:HG12	1:L:572:ALA:H	1.58	0.69
1:M:571:VAL:HG12	1:M:572:ALA:H	1.58	0.69
1:N:241:THR:HG21	1:N:290:HIS:HB3	1.74	0.69
1:P:252:TYR:OH	1:P:372:VAL:O	2.10	0.69
1:P:263:GLN:HG3	1:P:265:GLY:H	1.57	0.69
1:Q:645:GLN:O	1:Q:646:ILE:HG13	1.93	0.69
1:R:291:PHE:O	1:R:292:SER:OG	2.09	0.69
1:R:454:THR:HG23	1:R:455:THR:HG23	1.74	0.69
1:S:470:ILE:HG22	1:S:471:ARG:H	1.57	0.69
1:S:571:VAL:HG12	1:S:572:ALA:H	1.58	0.69
1:T:571:VAL:HG12	1:T:572:ALA:H	1.58	0.69
1:U:571:VAL:HG12	1:U:572:ALA:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:263:GLN:HG3	1:V:265:GLY:H	1.57	0.69
1:W:645:GLN:O	1:W:646:ILE:HG13	1.93	0.69
1:X:484:ARG:NH2	1:e:581:THR:O	2.25	0.69
1:Y:263:GLN:HG3	1:Y:265:GLY:H	1.57	0.69
1:Y:571:VAL:HG12	1:Y:572:ALA:H	1.58	0.69
1:Z:470:ILE:HG22	1:Z:471:ARG:H	1.57	0.69
1:a:241:THR:HG21	1:a:290:HIS:HB3	1.74	0.69
1:b:241:THR:HG21	1:b:290:HIS:HB3	1.74	0.69
1:d:454:THR:HG23	1:d:455:THR:HG23	1.74	0.69
1:d:584:GLN:NE2	1:l:487:ARG:O	2.17	0.69
1:e:645:GLN:O	1:e:646:ILE:HG13	1.93	0.69
1:l:252:TYR:OH	1:l:372:VAL:O	2.10	0.69
1:l:645:GLN:O	1:l:646:ILE:HG13	1.93	0.69
1:m:625:ASP:OD1	1:m:625:ASP:N	2.23	0.69
1:o:241:THR:HG21	1:o:290:HIS:HB3	1.74	0.69
1:q:571:VAL:HG12	1:q:572:ALA:H	1.58	0.69
1:s:452:SER:HB2	1:s:453:GLY:HA3	1.72	0.69
1:t:581:THR:O	1:u:484:ARG:NH2	2.25	0.69
1:u:571:VAL:HG12	1:u:572:ALA:H	1.58	0.69
1:v:571:VAL:HG12	1:v:572:ALA:H	1.58	0.69
1:w:645:GLN:O	1:w:646:ILE:HG13	1.93	0.69
1:x:252:TYR:OH	1:x:372:VAL:O	2.10	0.69
1:z:252:TYR:OH	1:z:372:VAL:O	2.10	0.69
1:z:452:SER:HB2	1:z:453:GLY:HA3	1.72	0.69
1:z:486:GLN:NE2	1:2:584:GLN:OE1	2.25	0.69
1:1:470:ILE:HG22	1:1:471:ARG:H	1.57	0.69
1:2:454:THR:HG23	1:2:455:THR:HG23	1.74	0.69
1:5:581:THR:O	1:6:484:ARG:NH2	2.25	0.69
1:5:645:GLN:O	1:5:646:ILE:HG13	1.93	0.69
1:8:263:GLN:HG3	1:8:265:GLY:H	1.57	0.69
1:8:470:ILE:HG22	1:8:471:ARG:H	1.57	0.69
1:8:645:GLN:O	1:8:646:ILE:HG13	1.93	0.69
1:H:263:GLN:HG3	1:H:265:GLY:H	1.57	0.69
1:H:470:ILE:HG22	1:H:471:ARG:H	1.57	0.69
1:L:241:THR:HG21	1:L:290:HIS:HB3	1.74	0.69
1:M:374:GLN:HE21	1:b:437:LEU:HD13	1.58	0.69
1:O:263:GLN:HG3	1:O:265:GLY:H	1.57	0.69
1:V:241:THR:HG21	1:V:290:HIS:HB3	1.74	0.69
1:W:571:VAL:HG12	1:W:572:ALA:H	1.58	0.69
1:c:581:THR:O	1:o:484:ARG:NH2	2.26	0.69
1:h:571:VAL:HG12	1:h:572:ALA:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:484:ARG:NH2	1:k:581:THR:O	2.25	0.69
1:j:645:GLN:O	1:j:646:ILE:HG13	1.93	0.69
1:k:571:VAL:HG12	1:k:572:ALA:H	1.58	0.69
1:n:263:GLN:HG3	1:n:265:GLY:H	1.57	0.69
1:u:581:THR:O	1:v:484:ARG:NH2	2.26	0.69
1:y:241:THR:HG21	1:y:290:HIS:HB3	1.74	0.69
1:3:263:GLN:HG3	1:3:265:GLY:H	1.57	0.69
1:4:263:GLN:HG3	1:4:265:GLY:H	1.57	0.69
1:6:263:GLN:HG3	1:6:265:GLY:H	1.57	0.69
1:A:581:THR:O	1:G:484:ARG:NH2	2.26	0.69
1:F:263:GLN:HG3	1:F:265:GLY:H	1.57	0.69
1:P:470:ILE:HG22	1:P:471:ARG:H	1.57	0.69
1:P:645:GLN:O	1:P:646:ILE:HG13	1.93	0.69
1:T:645:GLN:O	1:T:646:ILE:HG13	1.93	0.69
1:X:470:ILE:HG22	1:X:471:ARG:H	1.57	0.69
1:b:454:THR:HG23	1:b:455:THR:HG23	1.74	0.69
1:b:571:VAL:HG12	1:b:572:ALA:H	1.58	0.69
1:f:645:GLN:O	1:f:646:ILE:HG13	1.93	0.69
1:m:470:ILE:HG22	1:m:471:ARG:H	1.57	0.69
1:r:263:GLN:HG3	1:r:265:GLY:H	1.57	0.69
1:r:571:VAL:HG12	1:r:572:ALA:H	1.58	0.69
1:t:454:THR:HG23	1:t:455:THR:HG23	1.74	0.69
1:y:263:GLN:HG3	1:y:265:GLY:H	1.57	0.69
1:z:645:GLN:O	1:z:646:ILE:HG13	1.93	0.69
1:3:571:VAL:HG12	1:3:572:ALA:H	1.58	0.69
1:4:571:VAL:HG12	1:4:572:ALA:H	1.58	0.69
1:6:252:TYR:OH	1:6:372:VAL:O	2.10	0.69
1:7:263:GLN:HG3	1:7:265:GLY:H	1.57	0.69
1:B:437:LEU:HD13	1:J:374:GLN:HE21	1.58	0.68
1:H:454:THR:HG23	1:H:455:THR:HG23	1.74	0.68
1:O:571:VAL:HG12	1:O:572:ALA:H	1.58	0.68
1:S:329:THR:HG22	1:d:326:ASN:HD21	1.58	0.68
1:U:470:ILE:HG22	1:U:471:ARG:H	1.57	0.68
1:Z:584:GLN:NE2	1:4:487:ARG:O	2.15	0.68
1:a:454:THR:HG23	1:a:455:THR:HG23	1.74	0.68
1:f:241:THR:HG21	1:f:290:HIS:HB3	1.74	0.68
1:h:252:TYR:OH	1:h:372:VAL:O	2.10	0.68
1:i:571:VAL:HG12	1:i:572:ALA:H	1.58	0.68
1:j:241:THR:HG21	1:j:290:HIS:HB3	1.74	0.68
1:s:454:THR:HG23	1:s:455:THR:HG23	1.74	0.68
1:s:470:ILE:HG22	1:s:471:ARG:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:437:LEU:HD13	1:x:374:GLN:HE21	1.58	0.68
1:x:470:ILE:HG22	1:x:471:ARG:H	1.57	0.68
1:1:645:GLN:O	1:1:646:ILE:HG13	1.93	0.68
1:B:454:THR:HG23	1:B:455:THR:HG23	1.74	0.68
1:B:470:ILE:HG22	1:B:471:ARG:H	1.57	0.68
1:C:437:LEU:HD13	1:b:374:GLN:HE21	1.59	0.68
1:F:484:ARG:NH2	1:Q:581:THR:O	2.25	0.68
1:N:437:LEU:HD13	1:P:374:GLN:HE21	1.59	0.68
1:R:252:TYR:OH	1:R:372:VAL:O	2.10	0.68
1:V:437:LEU:HD13	1:e:374:GLN:HE21	1.58	0.68
1:V:581:THR:O	1:e:484:ARG:NH2	2.25	0.68
1:a:437:LEU:HD13	1:8:374:GLN:HE21	1.59	0.68
1:d:645:GLN:O	1:d:646:ILE:HG13	1.93	0.68
1:f:484:ARG:NH2	1:g:581:THR:O	2.26	0.68
1:g:571:VAL:HG12	1:g:572:ALA:H	1.58	0.68
1:h:454:THR:HG23	1:h:455:THR:HG23	1.74	0.68
1:k:252:TYR:OH	1:k:372:VAL:O	2.10	0.68
1:l:571:VAL:HG12	1:l:572:ALA:H	1.58	0.68
1:t:374:GLN:HE21	1:v:437:LEU:HD13	1.58	0.68
1:u:437:LEU:HD13	1:v:374:GLN:HE21	1.58	0.68
1:y:571:VAL:HG12	1:y:572:ALA:H	1.58	0.68
1:y:645:GLN:O	1:y:646:ILE:HG13	1.93	0.68
1:A:374:GLN:HE21	1:I:437:LEU:HD13	1.59	0.68
1:A:571:VAL:HG12	1:A:572:ALA:H	1.58	0.68
1:B:374:GLN:HE21	1:L:437:LEU:HD13	1.59	0.68
1:B:571:VAL:HG12	1:B:572:ALA:H	1.58	0.68
1:E:470:ILE:HG22	1:E:471:ARG:H	1.57	0.68
1:H:241:THR:HG21	1:H:290:HIS:HB3	1.74	0.68
1:I:454:THR:HG23	1:I:455:THR:HG23	1.74	0.68
1:O:470:ILE:HG22	1:O:471:ARG:H	1.57	0.68
1:V:645:GLN:O	1:V:646:ILE:HG13	1.93	0.68
1:n:571:VAL:HG12	1:n:572:ALA:H	1.58	0.68
1:s:241:THR:HG21	1:s:290:HIS:HB3	1.74	0.68
1:t:252:TYR:OH	1:t:372:VAL:O	2.10	0.68
1:x:454:THR:HG23	1:x:455:THR:HG23	1.74	0.68
1:z:571:VAL:HG12	1:z:572:ALA:H	1.58	0.68
1:2:645:GLN:O	1:2:646:ILE:HG13	1.93	0.68
1:A:541:ILE:HG21	1:I:443:TYR:HB2	1.75	0.68
1:A:645:GLN:O	1:A:646:ILE:HG13	1.93	0.68
1:K:374:GLN:HE21	1:8:437:LEU:HD13	1.58	0.68
1:N:454:THR:HG23	1:N:455:THR:HG23	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:374:GLN:HE21	1:U:437:LEU:HD13	1.58	0.68
1:S:437:LEU:HD13	1:U:374:GLN:HE21	1.58	0.68
1:V:571:VAL:HG12	1:V:572:ALA:H	1.58	0.68
1:Z:263:GLN:HG3	1:Z:265:GLY:H	1.57	0.68
1:a:252:TYR:OH	1:a:372:VAL:O	2.10	0.68
1:b:470:ILE:HG22	1:b:471:ARG:H	1.57	0.68
1:f:454:THR:HG23	1:f:455:THR:HG23	1.74	0.68
1:o:571:VAL:HG12	1:o:572:ALA:H	1.58	0.68
1:w:374:GLN:HE21	1:y:437:LEU:HD13	1.58	0.68
1:x:571:VAL:HG12	1:x:572:ALA:H	1.58	0.68
1:1:437:LEU:HD13	1:2:374:GLN:HE21	1.59	0.68
1:3:470:ILE:HG22	1:3:471:ARG:H	1.57	0.68
1:4:241:THR:HG21	1:4:290:HIS:HB3	1.74	0.68
1:5:454:THR:HG23	1:5:455:THR:HG23	1.74	0.68
1:7:470:ILE:HG22	1:7:471:ARG:H	1.57	0.68
1:D:374:GLN:HE21	1:P:437:LEU:HD13	1.59	0.68
1:D:571:VAL:HG12	1:D:572:ALA:H	1.58	0.68
1:D:645:GLN:O	1:D:646:ILE:HG13	1.93	0.68
1:H:584:GLN:NE2	1:W:487:ARG:O	2.16	0.68
1:K:437:LEU:HD13	1:a:374:GLN:HE21	1.59	0.68
1:K:571:VAL:HG12	1:K:572:ALA:H	1.58	0.68
1:Q:470:ILE:HG22	1:Q:471:ARG:H	1.57	0.68
1:i:645:GLN:O	1:i:646:ILE:HG13	1.93	0.68
1:k:454:THR:HG23	1:k:455:THR:HG23	1.74	0.68
1:o:645:GLN:O	1:o:646:ILE:HG13	1.93	0.68
1:q:470:ILE:HG22	1:q:471:ARG:H	1.57	0.68
1:t:437:LEU:HD13	1:u:374:GLN:HE21	1.59	0.68
1:v:470:ILE:HG22	1:v:471:ARG:H	1.57	0.68
1:w:484:ARG:NH2	1:y:581:THR:O	2.25	0.68
1:z:263:GLN:HG3	1:z:265:GLY:H	1.57	0.68
1:3:374:GLN:HE21	1:4:437:LEU:HD13	1.59	0.68
1:7:645:GLN:O	1:7:646:ILE:HG13	1.93	0.68
1:D:437:LEU:HD13	1:N:374:GLN:HE21	1.58	0.68
1:E:645:GLN:O	1:E:646:ILE:HG13	1.93	0.68
1:F:454:THR:HG23	1:F:455:THR:HG23	1.74	0.68
1:F:571:VAL:HG12	1:F:572:ALA:H	1.58	0.68
1:H:484:ARG:NH2	1:Y:581:THR:O	2.25	0.68
1:I:263:GLN:HG3	1:I:265:GLY:H	1.57	0.68
1:J:241:THR:HG21	1:J:290:HIS:HB3	1.74	0.68
1:K:645:GLN:O	1:K:646:ILE:HG13	1.93	0.68
1:M:241:THR:HG21	1:M:290:HIS:HB3	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:252:TYR:OH	1:N:372:VAL:O	2.10	0.68
1:R:437:LEU:HD13	1:S:374:GLN:HE21	1.59	0.68
1:W:470:ILE:HG22	1:W:471:ARG:H	1.57	0.68
1:X:454:THR:HG23	1:X:455:THR:HG23	1.74	0.68
1:c:437:LEU:HD13	1:o:374:GLN:HE21	1.59	0.68
1:c:454:THR:HG23	1:c:455:THR:HG23	1.74	0.68
1:g:645:GLN:O	1:g:646:ILE:HG13	1.93	0.68
1:m:584:GLN:NE2	1:n:487:ARG:O	2.16	0.68
1:t:263:GLN:HG3	1:t:265:GLY:H	1.57	0.68
1:x:645:GLN:O	1:x:646:ILE:HG13	1.93	0.68
1:5:437:LEU:HD13	1:6:374:GLN:HE21	1.59	0.68
1:B:625:ASP:OD1	1:B:625:ASP:N	2.23	0.68
1:C:645:GLN:O	1:C:646:ILE:HG13	1.93	0.68
1:G:571:VAL:HG12	1:G:572:ALA:H	1.58	0.68
1:N:470:ILE:HG22	1:N:471:ARG:H	1.57	0.68
1:Q:454:THR:HG23	1:Q:455:THR:HG23	1.74	0.68
1:S:241:THR:HG21	1:S:290:HIS:HB3	1.74	0.68
1:T:374:GLN:HE21	1:l:437:LEU:HD13	1.58	0.68
1:W:437:LEU:HD13	1:Y:374:GLN:HE21	1.58	0.68
1:X:374:GLN:HE21	1:e:437:LEU:HD13	1.59	0.68
1:X:571:VAL:HG12	1:X:572:ALA:H	1.58	0.68
1:X:645:GLN:O	1:X:646:ILE:HG13	1.93	0.68
1:a:470:ILE:HG22	1:a:471:ARG:H	1.57	0.68
1:c:263:GLN:HG3	1:c:265:GLY:H	1.57	0.68
1:e:571:VAL:HG12	1:e:572:ALA:H	1.58	0.68
1:j:454:THR:HG23	1:j:455:THR:HG23	1.74	0.68
1:m:263:GLN:HG3	1:m:265:GLY:H	1.57	0.68
1:n:241:THR:HG21	1:n:290:HIS:HB3	1.74	0.68
1:u:263:GLN:HG3	1:u:265:GLY:H	1.57	0.68
1:u:454:THR:HG23	1:u:455:THR:HG23	1.74	0.68
1:5:470:ILE:HG22	1:5:471:ARG:H	1.57	0.68
1:6:454:THR:HG23	1:6:455:THR:HG23	1.74	0.68
1:6:571:VAL:HG12	1:6:572:ALA:H	1.58	0.68
1:F:329:THR:HG22	1:G:326:ASN:HD21	1.59	0.68
1:I:580:SER:HA	1:I:592:THR:H	1.59	0.68
1:S:263:GLN:HG3	1:S:265:GLY:H	1.57	0.68
1:T:581:THR:O	1:d:484:ARG:NH2	2.26	0.68
1:Y:580:SER:HA	1:Y:592:THR:H	1.59	0.68
1:a:580:SER:HA	1:a:592:THR:H	1.59	0.68
1:b:625:ASP:OD1	1:b:625:ASP:N	2.23	0.68
1:d:580:SER:HA	1:d:592:THR:H	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:437:LEU:HD13	1:j:374:GLN:HE21	1.58	0.68
1:j:470:ILE:HG22	1:j:471:ARG:H	1.57	0.68
1:l:263:GLN:HG3	1:l:265:GLY:H	1.57	0.68
1:o:263:GLN:HG3	1:o:265:GLY:H	1.57	0.68
1:p:571:VAL:HG12	1:p:572:ALA:H	1.58	0.68
1:w:571:VAL:HG12	1:w:572:ALA:H	1.58	0.68
1:2:580:SER:HA	1:2:592:THR:H	1.59	0.68
1:3:645:GLN:O	1:3:646:ILE:HG13	1.93	0.68
1:D:470:ILE:HG22	1:D:471:ARG:H	1.57	0.68
1:F:374:GLN:HE21	1:Q:437:LEU:HD13	1.59	0.68
1:J:437:LEU:HD13	1:L:374:GLN:HE21	1.59	0.68
1:K:263:GLN:HG3	1:K:265:GLY:H	1.57	0.68
1:L:645:GLN:O	1:L:646:ILE:HG13	1.93	0.68
1:N:580:SER:HA	1:N:592:THR:H	1.59	0.68
1:R:263:GLN:HG3	1:R:265:GLY:H	1.57	0.68
1:S:454:THR:HG23	1:S:455:THR:HG23	1.74	0.68
1:Z:645:GLN:O	1:Z:646:ILE:HG13	1.93	0.68
1:c:580:SER:HA	1:c:592:THR:H	1.59	0.68
1:d:437:LEU:HD13	1:l:374:GLN:HE21	1.59	0.68
1:d:571:VAL:HG12	1:d:572:ALA:H	1.58	0.68
1:f:263:GLN:HG3	1:f:265:GLY:H	1.57	0.68
1:f:470:ILE:HG22	1:f:471:ARG:H	1.57	0.68
1:i:263:GLN:HG3	1:i:265:GLY:H	1.57	0.68
1:j:584:GLN:NE2	1:k:487:ARG:O	2.15	0.68
1:l:326:ASN:HD21	1:n:329:THR:HG22	1.59	0.68
1:u:241:THR:HG21	1:u:290:HIS:HB3	1.74	0.68
1:u:645:GLN:O	1:u:646:ILE:HG13	1.93	0.68
1:8:291:PHE:O	1:8:292:SER:OG	2.09	0.68
1:B:263:GLN:HG3	1:B:265:GLY:H	1.57	0.68
1:D:263:GLN:HG3	1:D:265:GLY:H	1.57	0.68
1:J:454:THR:HG23	1:J:455:THR:HG23	1.74	0.68
1:K:470:ILE:HG22	1:K:471:ARG:H	1.57	0.68
1:L:562:GLU:OE2	1:L:612:TYR:OH	2.12	0.68
1:M:454:THR:HG23	1:M:455:THR:HG23	1.74	0.68
1:O:562:GLU:OE2	1:O:612:TYR:OH	2.12	0.68
1:O:645:GLN:O	1:O:646:ILE:HG13	1.93	0.68
1:P:571:VAL:HG12	1:P:572:ALA:H	1.58	0.68
1:Q:580:SER:HA	1:Q:592:THR:H	1.59	0.68
1:T:241:THR:HG21	1:T:290:HIS:HB3	1.74	0.68
1:U:625:ASP:OD1	1:U:625:ASP:N	2.23	0.68
1:V:252:TYR:OH	1:V:372:VAL:O	2.10	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:241:THR:HG21	1:W:290:HIS:HB3	1.74	0.68
1:X:263:GLN:HG3	1:X:265:GLY:H	1.57	0.68
1:Y:470:ILE:HG22	1:Y:471:ARG:H	1.57	0.68
1:a:645:GLN:O	1:a:646:ILE:HG13	1.93	0.68
1:c:241:THR:HG21	1:c:290:HIS:HB3	1.74	0.68
1:g:263:GLN:HG3	1:g:265:GLY:H	1.57	0.68
1:i:241:THR:HG21	1:i:290:HIS:HB3	1.74	0.68
1:m:454:THR:HG23	1:m:455:THR:HG23	1.74	0.68
1:q:437:LEU:HD13	1:r:374:GLN:HE21	1.59	0.68
1:q:580:SER:HA	1:q:592:THR:H	1.59	0.68
1:t:580:SER:HA	1:t:592:THR:H	1.59	0.68
1:u:252:TYR:OH	1:u:372:VAL:O	2.10	0.68
1:y:580:SER:HA	1:y:592:THR:H	1.59	0.68
1:z:326:ASN:HD21	1:4:329:THR:HG22	1.59	0.68
1:z:437:LEU:HD13	1:1:374:GLN:HE21	1.59	0.68
1:2:571:VAL:HG12	1:2:572:ALA:H	1.58	0.68
1:3:562:GLU:OE2	1:3:612:TYR:OH	2.12	0.68
1:4:470:ILE:HG22	1:4:471:ARG:H	1.57	0.68
1:5:571:VAL:HG12	1:5:572:ALA:H	1.58	0.68
1:5:580:SER:HA	1:5:592:THR:H	1.59	0.68
1:8:571:VAL:HG12	1:8:572:ALA:H	1.58	0.68
1:C:562:GLU:OE2	1:C:612:TYR:OH	2.12	0.67
1:E:487:ARG:O	1:F:584:GLN:NE2	2.16	0.67
1:G:241:THR:HG21	1:G:290:HIS:HB3	1.74	0.67
1:H:571:VAL:HG12	1:H:572:ALA:H	1.58	0.67
1:I:241:THR:HG21	1:I:290:HIS:HB3	1.74	0.67
1:M:470:ILE:HG22	1:M:471:ARG:H	1.57	0.67
1:N:645:GLN:O	1:N:646:ILE:HG13	1.93	0.67
1:O:241:THR:HG21	1:O:290:HIS:HB3	1.74	0.67
1:Q:571:VAL:HG12	1:Q:572:ALA:H	1.58	0.67
1:R:580:SER:HA	1:R:592:THR:H	1.59	0.67
1:S:252:TYR:OH	1:S:372:VAL:O	2.10	0.67
1:S:645:GLN:O	1:S:646:ILE:HG13	1.93	0.67
1:T:329:THR:HG22	1:U:326:ASN:HD21	1.59	0.67
1:V:580:SER:HA	1:V:592:THR:H	1.59	0.67
1:Z:454:THR:HG23	1:Z:455:THR:HG23	1.74	0.67
1:p:470:ILE:HG22	1:p:471:ARG:H	1.57	0.67
1:p:580:SER:HA	1:p:592:THR:H	1.59	0.67
1:r:580:SER:HA	1:r:592:THR:H	1.59	0.67
1:v:625:ASP:OD1	1:v:625:ASP:N	2.23	0.67
1:x:263:GLN:HG3	1:x:265:GLY:H	1.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:252:TYR:OH	1:y:372:VAL:O	2.10	0.67
1:3:241:THR:HG21	1:3:290:HIS:HB3	1.74	0.67
1:4:580:SER:HA	1:4:592:THR:H	1.59	0.67
1:A:263:GLN:HG3	1:A:265:GLY:H	1.57	0.67
1:C:374:GLN:HE21	1:M:437:LEU:HD13	1.59	0.67
1:E:580:SER:HA	1:E:592:THR:H	1.59	0.67
1:F:580:SER:HA	1:F:592:THR:H	1.59	0.67
1:G:580:SER:HA	1:G:592:THR:H	1.59	0.67
1:G:625:ASP:OD1	1:G:625:ASP:N	2.23	0.67
1:G:645:GLN:O	1:G:646:ILE:HG13	1.93	0.67
1:J:263:GLN:HG3	1:J:265:GLY:H	1.57	0.67
1:M:263:GLN:HG3	1:M:265:GLY:H	1.57	0.67
1:W:580:SER:HA	1:W:592:THR:H	1.59	0.67
1:c:571:VAL:HG12	1:c:572:ALA:H	1.58	0.67
1:f:374:GLN:HE21	1:g:437:LEU:HD13	1.59	0.67
1:g:241:THR:HG21	1:g:290:HIS:HB3	1.74	0.67
1:j:263:GLN:HG3	1:j:265:GLY:H	1.57	0.67
1:p:241:THR:HG21	1:p:290:HIS:HB3	1.74	0.67
1:r:470:ILE:HG22	1:r:471:ARG:H	1.57	0.67
1:s:562:GLU:OE2	1:s:612:TYR:OH	2.12	0.67
1:s:571:VAL:HG12	1:s:572:ALA:H	1.58	0.67
1:2:562:GLU:OE2	1:2:612:TYR:OH	2.12	0.67
1:6:580:SER:HA	1:6:592:THR:H	1.59	0.67
1:7:580:SER:HA	1:7:592:THR:H	1.59	0.67
1:J:470:ILE:HG22	1:J:471:ARG:H	1.57	0.67
1:Z:571:VAL:HG12	1:Z:572:ALA:H	1.58	0.67
1:j:571:VAL:HG12	1:j:572:ALA:H	1.58	0.67
1:k:263:GLN:HG3	1:k:265:GLY:H	1.57	0.67
1:m:645:GLN:O	1:m:646:ILE:HG13	1.93	0.67
1:n:470:ILE:HG22	1:n:471:ARG:H	1.57	0.67
1:n:580:SER:HA	1:n:592:THR:H	1.59	0.67
1:p:645:GLN:O	1:p:646:ILE:HG13	1.93	0.67
1:q:241:THR:HG21	1:q:290:HIS:HB3	1.74	0.67
1:t:571:VAL:HG12	1:t:572:ALA:H	1.58	0.67
1:u:329:THR:HG22	1:2:326:ASN:HD21	1.59	0.67
1:u:580:SER:HA	1:u:592:THR:H	1.59	0.67
1:1:241:THR:HG21	1:1:290:HIS:HB3	1.74	0.67
1:A:484:ARG:NH2	1:I:581:THR:O	2.27	0.67
1:G:470:ILE:HG22	1:G:471:ARG:H	1.57	0.67
1:H:562:GLU:OE2	1:H:612:TYR:OH	2.12	0.67
1:O:437:LEU:HD13	1:m:374:GLN:HE21	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:580:SER:HA	1:S:592:THR:H	1.59	0.67
1:T:437:LEU:HD13	1:d:374:GLN:HE21	1.60	0.67
1:a:562:GLU:OE2	1:a:612:TYR:OH	2.12	0.67
1:b:263:GLN:HG3	1:b:265:GLY:H	1.57	0.67
1:d:581:THR:O	1:l:484:ARG:NH2	2.27	0.67
1:f:571:VAL:HG12	1:f:572:ALA:H	1.58	0.67
1:f:584:GLN:NE2	1:h:487:ARG:O	2.15	0.67
1:g:625:ASP:OD1	1:g:625:ASP:N	2.23	0.67
1:h:263:GLN:HG3	1:h:265:GLY:H	1.57	0.67
1:i:625:ASP:OD1	1:i:625:ASP:N	2.23	0.67
1:m:437:LEU:HD13	1:n:374:GLN:HE21	1.58	0.67
1:8:241:THR:HG21	1:8:290:HIS:HB3	1.74	0.67
1:H:329:THR:HG22	1:I:326:ASN:HD21	1.58	0.67
1:I:571:VAL:HG12	1:I:572:ALA:H	1.58	0.67
1:M:580:SER:HA	1:M:592:THR:H	1.59	0.67
1:P:241:THR:HG21	1:P:290:HIS:HB3	1.74	0.67
1:P:580:SER:HA	1:P:592:THR:H	1.59	0.67
1:o:458:SER:OG	1:p:492:SER:O	2.12	0.67
1:p:250:PRO:HB2	1:q:659:THR:HG22	1.77	0.67
1:p:625:ASP:OD1	1:p:625:ASP:N	2.23	0.67
1:q:374:GLN:HE21	1:s:437:LEU:HD13	1.59	0.67
1:8:580:SER:HA	1:8:592:THR:H	1.59	0.67
1:B:580:SER:HA	1:B:592:THR:H	1.59	0.67
1:E:374:GLN:HE21	1:F:437:LEU:HD13	1.58	0.67
1:E:571:VAL:HG12	1:E:572:ALA:H	1.58	0.67
1:R:571:VAL:HG12	1:R:572:ALA:H	1.58	0.67
1:Z:326:ASN:HD21	1:a:329:THR:HG22	1.60	0.67
1:Z:374:GLN:HE21	1:3:437:LEU:HD13	1.59	0.67
1:m:571:VAL:HG12	1:m:572:ALA:H	1.58	0.67
1:o:584:GLN:NE2	1:p:487:ARG:O	2.16	0.67
1:q:484:ARG:NH2	1:s:581:THR:O	2.27	0.67
1:1:581:THR:O	1:2:484:ARG:NH2	2.27	0.67
1:6:437:LEU:HD13	1:7:374:GLN:HE21	1.58	0.67
1:A:580:SER:HA	1:A:592:THR:H	1.59	0.67
1:N:329:THR:HG22	1:m:326:ASN:HD21	1.60	0.67
1:S:562:GLU:OE2	1:S:612:TYR:OH	2.12	0.67
1:X:329:THR:HG22	1:Y:326:ASN:HD21	1.60	0.67
1:b:580:SER:HA	1:b:592:THR:H	1.59	0.67
1:f:437:LEU:HD13	1:h:374:GLN:HE21	1.58	0.67
1:i:374:GLN:HE21	1:k:437:LEU:HD13	1.59	0.67
1:j:562:GLU:OE2	1:j:612:TYR:OH	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:241:THR:HG21	1:k:290:HIS:HB3	1.74	0.67
1:l:594:ASP:CG	1:l:595:VAL:H	2.03	0.67
1:m:562:GLU:OE2	1:m:612:TYR:OH	2.12	0.67
1:n:291:PHE:O	1:n:292:SER:OG	2.09	0.67
1:o:580:SER:HA	1:o:592:THR:H	1.59	0.67
1:7:571:VAL:HG12	1:7:572:ALA:H	1.58	0.67
1:J:580:SER:HA	1:J:592:THR:H	1.59	0.67
1:O:329:THR:HG22	1:P:326:ASN:HD21	1.60	0.67
1:U:454:THR:HG23	1:U:455:THR:HG23	1.74	0.67
1:Z:562:GLU:OE2	1:Z:612:TYR:OH	2.12	0.67
1:f:562:GLU:OE2	1:f:612:TYR:OH	2.12	0.67
1:r:326:ASN:HD21	1:x:329:THR:HG22	1.60	0.67
1:s:580:SER:HA	1:s:592:THR:H	1.59	0.67
1:v:326:ASN:HD21	1:1:329:THR:HG22	1.60	0.67
1:z:594:ASP:CG	1:z:595:VAL:H	2.03	0.67
1:4:291:PHE:O	1:4:292:SER:OG	2.09	0.67
1:D:487:ARG:O	1:P:584:GLN:NE2	2.15	0.67
1:H:580:SER:HA	1:H:592:THR:H	1.59	0.67
1:N:594:ASP:CG	1:N:595:VAL:H	2.03	0.67
1:X:594:ASP:CG	1:X:595:VAL:H	2.03	0.67
1:e:562:GLU:OE2	1:e:612:TYR:OH	2.12	0.67
1:h:241:THR:HG21	1:h:290:HIS:HB3	1.74	0.67
1:j:437:LEU:HD13	1:k:374:GLN:HE21	1.58	0.67
1:n:594:ASP:CG	1:n:595:VAL:H	2.03	0.67
1:u:562:GLU:OE2	1:u:612:TYR:OH	2.12	0.67
1:v:454:THR:HG23	1:v:455:THR:HG23	1.74	0.67
1:x:594:ASP:CG	1:x:595:VAL:H	2.03	0.67
1:4:594:ASP:CG	1:4:595:VAL:H	2.03	0.67
1:A:437:LEU:HD13	1:G:374:GLN:HE21	1.59	0.67
1:H:437:LEU:HD13	1:W:374:GLN:HE21	1.58	0.67
1:I:594:ASP:CG	1:I:595:VAL:H	2.03	0.67
1:Q:562:GLU:OE2	1:Q:612:TYR:OH	2.12	0.67
1:a:594:ASP:CG	1:a:595:VAL:H	2.03	0.67
1:c:594:ASP:CG	1:c:595:VAL:H	2.03	0.67
1:g:374:GLN:HE21	1:h:437:LEU:HD13	1.59	0.67
1:l:562:GLU:OE2	1:l:612:TYR:OH	2.12	0.67
1:p:562:GLU:OE2	1:p:612:TYR:OH	2.12	0.67
1:1:594:ASP:CG	1:1:595:VAL:H	2.03	0.67
1:5:326:ASN:HD21	1:8:329:THR:HG22	1.60	0.67
1:5:562:GLU:OE2	1:5:612:TYR:OH	2.12	0.67
1:E:437:LEU:HD13	1:Q:374:GLN:HE21	1.58	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:562:GLU:OE2	1:G:612:TYR:OH	2.12	0.66
1:H:625:ASP:OD1	1:H:625:ASP:N	2.23	0.66
1:K:487:ARG:O	1:8:584:GLN:NE2	2.15	0.66
1:f:594:ASP:CG	1:f:595:VAL:H	2.03	0.66
1:g:562:GLU:OE2	1:g:612:TYR:OH	2.12	0.66
1:i:562:GLU:OE2	1:i:612:TYR:OH	2.12	0.66
1:j:594:ASP:CG	1:j:595:VAL:H	2.03	0.66
1:q:329:THR:HG22	1:y:326:ASN:HD21	1.60	0.66
1:q:518:ASN:HB2	1:s:474:SER:HA	1.77	0.66
1:w:562:GLU:OE2	1:w:612:TYR:OH	2.12	0.66
1:z:562:GLU:OE2	1:z:612:TYR:OH	2.12	0.66
1:5:594:ASP:CG	1:5:595:VAL:H	2.03	0.66
1:B:326:ASN:HD21	1:C:329:THR:HG22	1.60	0.66
1:C:326:ASN:HD21	1:D:329:THR:HG22	1.60	0.66
1:C:594:ASP:CG	1:C:595:VAL:H	2.03	0.66
1:D:594:ASP:CG	1:D:595:VAL:H	2.03	0.66
1:L:329:THR:HG22	1:b:326:ASN:HD21	1.60	0.66
1:P:329:THR:HG22	1:Q:326:ASN:HD21	1.60	0.66
1:Q:594:ASP:CG	1:Q:595:VAL:H	2.03	0.66
1:T:594:ASP:CG	1:T:595:VAL:H	2.03	0.66
1:g:580:SER:HA	1:g:592:THR:H	1.59	0.66
1:o:437:LEU:HD13	1:p:374:GLN:HE21	1.59	0.66
1:q:594:ASP:CG	1:q:595:VAL:H	2.03	0.66
1:r:594:ASP:CG	1:r:595:VAL:H	2.03	0.66
1:A:584:GLN:NE2	1:G:487:ARG:O	2.16	0.66
1:B:594:ASP:CG	1:B:595:VAL:H	2.03	0.66
1:e:329:THR:HG22	1:h:326:ASN:HD21	1.60	0.66
1:k:326:ASN:HD21	1:w:329:THR:HG22	1.60	0.66
1:l:580:SER:HA	1:l:592:THR:H	1.59	0.66
1:3:329:THR:HG22	1:8:326:ASN:HD21	1.61	0.66
1:F:594:ASP:CG	1:F:595:VAL:H	2.03	0.66
1:K:329:THR:HG22	1:L:326:ASN:HD21	1.60	0.66
1:K:594:ASP:CG	1:K:595:VAL:H	2.03	0.66
1:L:594:ASP:CG	1:L:595:VAL:H	2.03	0.66
1:U:580:SER:HA	1:U:592:THR:H	1.59	0.66
1:Y:329:THR:HG22	1:4:326:ASN:HD21	1.60	0.66
1:Y:594:ASP:CG	1:Y:595:VAL:H	2.03	0.66
1:Z:580:SER:HA	1:Z:592:THR:H	1.59	0.66
1:b:594:ASP:CG	1:b:595:VAL:H	2.03	0.66
1:g:326:ASN:HD21	1:k:329:THR:HG22	1.60	0.66
1:h:329:THR:HG22	1:i:326:ASN:HD21	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:580:SER:HA	1:i:592:THR:H	1.59	0.66
1:m:594:ASP:CG	1:m:595:VAL:H	2.03	0.66
1:o:581:THR:O	1:p:484:ARG:NH2	2.29	0.66
1:s:625:ASP:OD1	1:s:625:ASP:N	2.23	0.66
1:t:329:THR:HG22	1:6:326:ASN:HD21	1.60	0.66
1:x:437:LEU:HD13	1:y:374:GLN:HE21	1.59	0.66
1:z:580:SER:HA	1:z:592:THR:H	1.59	0.66
1:3:580:SER:HA	1:3:592:THR:H	1.59	0.66
1:5:374:GLN:HE21	1:7:437:LEU:HD13	1.59	0.66
1:K:326:ASN:HD21	1:7:329:THR:HG22	1.60	0.66
1:L:580:SER:HA	1:L:592:THR:H	1.59	0.66
1:O:580:SER:HA	1:O:592:THR:H	1.59	0.66
1:q:487:ARG:O	1:s:584:GLN:NE2	2.17	0.66
1:v:580:SER:HA	1:v:592:THR:H	1.59	0.66
1:1:580:SER:HA	1:1:592:THR:H	1.59	0.66
1:6:594:ASP:CG	1:6:595:VAL:H	2.03	0.66
1:D:625:ASP:OD1	1:D:625:ASP:N	2.23	0.66
1:F:326:ASN:HD21	1:R:329:THR:HG22	1.60	0.66
1:G:329:THR:HG22	1:W:326:ASN:HD21	1.60	0.66
1:H:326:ASN:HD21	1:Z:329:THR:HG22	1.60	0.66
1:V:374:GLN:HE21	1:X:437:LEU:HD13	1.59	0.66
1:V:594:ASP:CG	1:V:595:VAL:H	2.03	0.66
1:Z:437:LEU:HD13	1:4:374:GLN:HE21	1.59	0.66
1:Z:594:ASP:CG	1:Z:595:VAL:H	2.03	0.66
1:e:580:SER:HA	1:e:592:THR:H	1.59	0.66
1:k:580:SER:HA	1:k:592:THR:H	1.59	0.66
1:G:458:SER:OG	1:I:492:SER:O	2.14	0.66
1:T:580:SER:HA	1:T:592:THR:H	1.59	0.66
1:U:440:GLN:HE22	1:U:474:SER:H	1.44	0.66
1:V:326:ASN:HD21	1:W:329:THR:HG22	1.61	0.66
1:b:329:THR:HG22	1:o:326:ASN:HD21	1.59	0.66
1:g:329:THR:HG22	1:1:326:ASN:HD21	1.59	0.66
1:m:580:SER:HA	1:m:592:THR:H	1.59	0.66
1:y:594:ASP:CG	1:y:595:VAL:H	2.03	0.66
1:A:329:THR:HG22	1:E:326:ASN:HD21	1.60	0.66
1:C:580:SER:HA	1:C:592:THR:H	1.59	0.66
1:D:580:SER:HA	1:D:592:THR:H	1.59	0.66
1:K:625:ASP:OD1	1:K:625:ASP:N	2.23	0.66
1:h:580:SER:HA	1:h:592:THR:H	1.59	0.66
1:h:594:ASP:CG	1:h:595:VAL:H	2.03	0.66
1:D:326:ASN:HD21	1:E:329:THR:HG22	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:594:ASP:CG	1:J:595:VAL:H	2.03	0.66
1:M:594:ASP:CG	1:M:595:VAL:H	2.03	0.66
1:g:594:ASP:CG	1:g:595:VAL:H	2.03	0.66
1:j:580:SER:HA	1:j:592:THR:H	1.59	0.66
1:o:474:SER:HA	1:p:518:ASN:HB2	1.78	0.66
1:u:343:PHE:HB3	1:u:400:SER:HA	1.78	0.66
1:v:440:GLN:HE22	1:v:474:SER:H	1.44	0.66
1:w:580:SER:HA	1:w:592:THR:H	1.59	0.66
1:7:291:PHE:O	1:7:292:SER:OG	2.09	0.66
1:A:594:ASP:CG	1:A:595:VAL:H	2.03	0.66
1:H:374:GLN:HE21	1:Y:437:LEU:HD13	1.59	0.66
1:I:440:GLN:HE22	1:I:474:SER:H	1.44	0.66
1:I:609:ARG:HG2	1:I:610:ASP:H	1.61	0.66
1:K:580:SER:HA	1:K:592:THR:H	1.59	0.66
1:S:343:PHE:HB3	1:S:400:SER:HA	1.79	0.66
1:W:609:ARG:HG2	1:W:610:ASP:H	1.61	0.66
1:h:609:ARG:HG2	1:h:610:ASP:H	1.61	0.66
1:k:594:ASP:CG	1:k:595:VAL:H	2.03	0.66
1:o:594:ASP:CG	1:o:595:VAL:H	2.03	0.66
1:x:562:GLU:OE2	1:x:612:TYR:OH	2.12	0.66
1:x:580:SER:HA	1:x:592:THR:H	1.59	0.66
1:A:326:ASN:HD21	1:B:329:THR:HG22	1.59	0.65
1:C:440:GLN:HE22	1:C:474:SER:H	1.44	0.65
1:G:343:PHE:HB3	1:G:400:SER:HA	1.79	0.65
1:J:343:PHE:HB3	1:J:400:SER:HA	1.78	0.65
1:L:440:GLN:HE22	1:L:474:SER:H	1.44	0.65
1:M:343:PHE:HB3	1:M:400:SER:HA	1.79	0.65
1:T:609:ARG:HG2	1:T:610:ASP:H	1.61	0.65
1:X:562:GLU:OE2	1:X:612:TYR:OH	2.12	0.65
1:Y:609:ARG:HG2	1:Y:610:ASP:H	1.61	0.65
1:c:440:GLN:HE22	1:c:474:SER:H	1.44	0.65
1:e:343:PHE:HB3	1:e:400:SER:HA	1.78	0.65
1:f:580:SER:HA	1:f:592:THR:H	1.59	0.65
1:f:625:ASP:OD1	1:f:625:ASP:N	2.23	0.65
1:g:609:ARG:HG2	1:g:610:ASP:H	1.61	0.65
1:k:609:ARG:HG2	1:k:610:ASP:H	1.61	0.65
1:p:343:PHE:HB3	1:p:400:SER:HA	1.78	0.65
1:q:609:ARG:HG2	1:q:610:ASP:H	1.61	0.65
1:w:343:PHE:HB3	1:w:400:SER:HA	1.78	0.65
1:1:609:ARG:HG2	1:1:610:ASP:H	1.61	0.65
1:2:329:THR:HG22	1:3:326:ASN:HD21	1.60	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:291:PHE:O	1:E:292:SER:OG	2.09	0.65
1:V:470:ILE:O	1:V:472:ASP:N	2.29	0.65
1:V:609:ARG:HG2	1:V:610:ASP:H	1.61	0.65
1:X:326:ASN:HD21	1:f:329:THR:HG22	1.61	0.65
1:Y:343:PHE:HB3	1:Y:400:SER:HA	1.78	0.65
1:c:609:ARG:HG2	1:c:610:ASP:H	1.61	0.65
1:d:343:PHE:HB3	1:d:400:SER:HA	1.78	0.65
1:i:609:ARG:HG2	1:i:610:ASP:H	1.61	0.65
1:o:625:ASP:OD1	1:o:625:ASP:N	2.23	0.65
1:p:594:ASP:CG	1:p:595:VAL:H	2.03	0.65
1:r:343:PHE:HB3	1:r:400:SER:HA	1.78	0.65
1:r:437:LEU:HD13	1:s:374:GLN:HE21	1.59	0.65
1:s:609:ARG:HG2	1:s:610:ASP:H	1.61	0.65
1:y:470:ILE:O	1:y:472:ASP:N	2.29	0.65
1:1:440:GLN:HE22	1:1:474:SER:H	1.44	0.65
1:B:544:LYS:HD2	1:B:556:LYS:HA	1.79	0.65
1:G:594:ASP:CG	1:G:595:VAL:H	2.03	0.65
1:O:326:ASN:HD21	1:d:329:THR:HG22	1.61	0.65
1:O:343:PHE:HB3	1:O:400:SER:HA	1.79	0.65
1:T:326:ASN:HD21	1:i:329:THR:HG22	1.60	0.65
1:T:440:GLN:HE22	1:T:474:SER:H	1.44	0.65
1:X:580:SER:HA	1:X:592:THR:H	1.59	0.65
1:b:544:LYS:HD2	1:b:556:LYS:HA	1.79	0.65
1:f:343:PHE:HB3	1:f:400:SER:HA	1.79	0.65
1:i:594:ASP:CG	1:i:595:VAL:H	2.03	0.65
1:r:609:ARG:HG2	1:r:610:ASP:H	1.61	0.65
1:y:609:ARG:HG2	1:y:610:ASP:H	1.61	0.65
1:z:625:ASP:OD1	1:z:625:ASP:N	2.23	0.65
1:2:343:PHE:HB3	1:2:400:SER:HA	1.79	0.65
1:3:343:PHE:HB3	1:3:400:SER:HA	1.79	0.65
1:6:343:PHE:HB3	1:6:400:SER:HA	1.79	0.65
1:F:343:PHE:HB3	1:F:400:SER:HA	1.79	0.65
1:F:440:GLN:HE22	1:F:474:SER:H	1.44	0.65
1:J:562:GLU:OE2	1:J:612:TYR:OH	2.12	0.65
1:K:343:PHE:HB3	1:K:400:SER:HA	1.78	0.65
1:K:609:ARG:HG2	1:K:610:ASP:H	1.61	0.65
1:M:562:GLU:OE2	1:M:612:TYR:OH	2.12	0.65
1:O:544:LYS:HD2	1:O:556:LYS:HA	1.79	0.65
1:R:544:LYS:HD2	1:R:556:LYS:HA	1.79	0.65
1:W:544:LYS:HD2	1:W:556:LYS:HA	1.79	0.65
1:j:343:PHE:HB3	1:j:400:SER:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:625:ASP:OD1	1:j:625:ASP:N	2.23	0.65
1:l:625:ASP:OD1	1:l:625:ASP:N	2.23	0.65
1:n:326:ASN:HD21	1:r:329:THR:HG22	1.61	0.65
1:n:440:GLN:HE22	1:n:474:SER:H	1.44	0.65
1:o:544:LYS:HD2	1:o:556:LYS:HA	1.79	0.65
1:u:326:ASN:HD21	1:5:329:THR:HG22	1.60	0.65
1:3:544:LYS:HD2	1:3:556:LYS:HA	1.79	0.65
1:4:440:GLN:HE22	1:4:474:SER:H	1.44	0.65
1:C:343:PHE:HB3	1:C:400:SER:HA	1.78	0.65
1:H:609:ARG:HG2	1:H:610:ASP:H	1.61	0.65
1:L:343:PHE:HB3	1:L:400:SER:HA	1.78	0.65
1:R:594:ASP:CG	1:R:595:VAL:H	2.03	0.65
1:Y:470:ILE:O	1:Y:472:ASP:N	2.29	0.65
1:e:594:ASP:CG	1:e:595:VAL:H	2.03	0.65
1:g:440:GLN:HE22	1:g:474:SER:H	1.44	0.65
1:g:544:LYS:HD2	1:g:556:LYS:HA	1.79	0.65
1:h:544:LYS:HD2	1:h:556:LYS:HA	1.79	0.65
1:m:343:PHE:HB3	1:m:400:SER:HA	1.79	0.65
1:p:440:GLN:HE22	1:p:474:SER:H	1.44	0.65
1:r:470:ILE:O	1:r:472:ASP:N	2.29	0.65
1:t:544:LYS:HD2	1:t:556:LYS:HA	1.79	0.65
1:z:544:LYS:HD2	1:z:556:LYS:HA	1.79	0.65
1:1:544:LYS:HD2	1:1:556:LYS:HA	1.79	0.65
1:A:544:LYS:HD2	1:A:556:LYS:HA	1.79	0.65
1:D:343:PHE:HB3	1:D:400:SER:HA	1.78	0.65
1:D:609:ARG:HG2	1:D:610:ASP:H	1.61	0.65
1:G:440:GLN:HE22	1:G:474:SER:H	1.44	0.65
1:J:625:ASP:OD1	1:J:625:ASP:N	2.23	0.65
1:T:544:LYS:HD2	1:T:556:LYS:HA	1.79	0.65
1:V:544:LYS:HD2	1:V:556:LYS:HA	1.79	0.65
1:X:440:GLN:HE22	1:X:474:SER:H	1.44	0.65
1:Z:343:PHE:HB3	1:Z:400:SER:HA	1.78	0.65
1:j:291:PHE:O	1:j:292:SER:OG	2.09	0.65
1:l:291:PHE:O	1:l:292:SER:OG	2.09	0.65
1:l:544:LYS:HD2	1:l:556:LYS:HA	1.79	0.65
1:q:544:LYS:HD2	1:q:556:LYS:HA	1.79	0.65
1:w:594:ASP:CG	1:w:595:VAL:H	2.03	0.65
1:x:440:GLN:HE22	1:x:474:SER:H	1.44	0.65
1:y:544:LYS:HD2	1:y:556:LYS:HA	1.79	0.65
1:6:440:GLN:HE22	1:6:474:SER:H	1.44	0.65
1:A:625:ASP:OD1	1:A:625:ASP:N	2.23	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:609:ARG:HG2	1:C:610:ASP:H	1.61	0.65
1:E:440:GLN:HE22	1:E:474:SER:H	1.44	0.65
1:H:544:LYS:HD2	1:H:556:LYS:HA	1.79	0.65
1:N:440:GLN:HE22	1:N:474:SER:H	1.44	0.65
1:R:326:ASN:HD21	1:V:329:THR:HG22	1.60	0.65
1:b:609:ARG:HG2	1:b:610:ASP:H	1.61	0.65
1:i:544:LYS:HD2	1:i:556:LYS:HA	1.79	0.65
1:j:326:ASN:HD21	1:l:329:THR:HG22	1.61	0.65
1:k:544:LYS:HD2	1:k:556:LYS:HA	1.79	0.65
1:t:594:ASP:CG	1:t:595:VAL:H	2.03	0.65
1:v:609:ARG:HG2	1:v:610:ASP:H	1.61	0.65
1:2:594:ASP:CG	1:2:595:VAL:H	2.03	0.65
1:5:440:GLN:HE22	1:5:474:SER:H	1.44	0.65
1:5:544:LYS:HD2	1:5:556:LYS:HA	1.79	0.65
1:7:544:LYS:HD2	1:7:556:LYS:HA	1.79	0.65
1:B:609:ARG:HG2	1:B:610:ASP:H	1.61	0.65
1:E:544:LYS:HD2	1:E:556:LYS:HA	1.79	0.65
1:E:594:ASP:CG	1:E:595:VAL:H	2.03	0.65
1:F:609:ARG:HG2	1:F:610:ASP:H	1.61	0.65
1:L:609:ARG:HG2	1:L:610:ASP:H	1.61	0.65
1:N:343:PHE:HB3	1:N:400:SER:HA	1.78	0.65
1:P:544:LYS:HD2	1:P:556:LYS:HA	1.79	0.65
1:P:609:ARG:HG2	1:P:610:ASP:H	1.61	0.65
1:Q:329:THR:HG22	1:S:326:ASN:HD21	1.60	0.65
1:Q:440:GLN:HE22	1:Q:474:SER:H	1.44	0.65
1:Q:544:LYS:HD2	1:Q:556:LYS:HA	1.79	0.65
1:R:440:GLN:HE22	1:R:474:SER:H	1.44	0.65
1:U:609:ARG:HG2	1:U:610:ASP:H	1.61	0.65
1:a:343:PHE:HB3	1:a:400:SER:HA	1.78	0.65
1:i:440:GLN:HE22	1:i:474:SER:H	1.44	0.65
1:j:329:THR:HG22	1:x:326:ASN:HD21	1.61	0.65
1:o:329:THR:HG22	1:7:326:ASN:HD21	1.61	0.65
1:v:544:LYS:HD2	1:v:556:LYS:HA	1.79	0.65
1:5:609:ARG:HG2	1:5:610:ASP:H	1.61	0.65
1:7:440:GLN:HE22	1:7:474:SER:H	1.44	0.65
1:H:594:ASP:CG	1:H:595:VAL:H	2.03	0.65
1:M:625:ASP:OD1	1:M:625:ASP:N	2.23	0.65
1:R:562:GLU:OE2	1:R:612:TYR:OH	2.12	0.65
1:d:594:ASP:CG	1:d:595:VAL:H	2.03	0.65
1:g:291:PHE:O	1:g:292:SER:OG	2.09	0.65
1:n:544:LYS:HD2	1:n:556:LYS:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:326:ASN:HD21	1:y:329:THR:HG22	1.60	0.65
1:t:343:PHE:HB3	1:t:400:SER:HA	1.78	0.65
1:t:440:GLN:HE22	1:t:474:SER:H	1.44	0.65
1:t:562:GLU:OE2	1:t:612:TYR:OH	2.12	0.65
1:t:609:ARG:HG2	1:t:610:ASP:H	1.61	0.65
1:4:544:LYS:HD2	1:4:556:LYS:HA	1.79	0.65
1:8:544:LYS:HD2	1:8:556:LYS:HA	1.79	0.65
1:L:544:LYS:HD2	1:L:556:LYS:HA	1.79	0.65
1:P:594:ASP:CG	1:P:595:VAL:H	2.03	0.65
1:Q:609:ARG:HG2	1:Q:610:ASP:H	1.61	0.65
1:R:609:ARG:HG2	1:R:610:ASP:H	1.61	0.65
1:T:492:SER:O	1:l:458:SER:OG	2.15	0.65
1:U:544:LYS:HD2	1:U:556:LYS:HA	1.79	0.65
1:X:343:PHE:HB3	1:X:400:SER:HA	1.79	0.65
1:a:440:GLN:HE22	1:a:474:SER:H	1.44	0.65
1:c:544:LYS:HD2	1:c:556:LYS:HA	1.79	0.65
1:c:584:GLN:NE2	1:o:487:ARG:O	2.16	0.65
1:d:562:GLU:OE2	1:d:612:TYR:OH	2.12	0.65
1:e:544:LYS:HD2	1:e:556:LYS:HA	1.79	0.65
1:f:291:PHE:O	1:f:292:SER:OG	2.09	0.65
1:g:343:PHE:HB3	1:g:400:SER:HA	1.79	0.65
1:i:343:PHE:HB3	1:i:400:SER:HA	1.79	0.65
1:s:544:LYS:HD2	1:s:556:LYS:HA	1.79	0.65
1:w:544:LYS:HD2	1:w:556:LYS:HA	1.79	0.65
1:z:291:PHE:O	1:z:292:SER:OG	2.09	0.65
1:3:594:ASP:CG	1:3:595:VAL:H	2.03	0.65
1:7:343:PHE:HB3	1:7:400:SER:HA	1.78	0.65
1:8:609:ARG:HG2	1:8:610:ASP:H	1.61	0.65
1:A:609:ARG:HG2	1:A:610:ASP:H	1.61	0.64
1:B:562:GLU:OE2	1:B:612:TYR:OH	2.12	0.64
1:F:562:GLU:OE2	1:F:612:TYR:OH	2.12	0.64
1:I:544:LYS:HD2	1:I:556:LYS:HA	1.79	0.64
1:O:594:ASP:CG	1:O:595:VAL:H	2.03	0.64
1:O:609:ARG:HG2	1:O:610:ASP:H	1.61	0.64
1:R:343:PHE:HB3	1:R:400:SER:HA	1.79	0.64
1:U:329:THR:HG22	1:e:326:ASN:HD21	1.61	0.64
1:b:562:GLU:OE2	1:b:612:TYR:OH	2.12	0.64
1:f:326:ASN:HD21	1:z:329:THR:HG22	1.62	0.64
1:f:440:GLN:HE22	1:f:474:SER:H	1.44	0.64
1:i:291:PHE:O	1:i:292:SER:OG	2.09	0.64
1:j:440:GLN:HE22	1:j:474:SER:H	1.44	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:609:ARG:HG2	1:l:610:ASP:H	1.61	0.64
1:o:609:ARG:HG2	1:o:610:ASP:H	1.61	0.64
1:s:594:ASP:CG	1:s:595:VAL:H	2.03	0.64
1:x:343:PHE:HB3	1:x:400:SER:HA	1.79	0.64
1:3:609:ARG:HG2	1:3:610:ASP:H	1.61	0.64
1:6:609:ARG:HG2	1:6:610:ASP:H	1.61	0.64
1:7:594:ASP:CG	1:7:595:VAL:H	2.03	0.64
1:C:544:LYS:HD2	1:C:556:LYS:HA	1.79	0.64
1:E:343:PHE:HB3	1:E:400:SER:HA	1.79	0.64
1:G:609:ARG:HG2	1:G:610:ASP:H	1.61	0.64
1:H:250:PRO:HB2	1:I:659:THR:HG22	1.77	0.64
1:f:458:SER:OG	1:h:492:SER:O	2.16	0.64
1:j:458:SER:OG	1:k:492:SER:O	2.16	0.64
1:l:343:PHE:HB3	1:l:400:SER:HA	1.78	0.64
1:p:609:ARG:HG2	1:p:610:ASP:H	1.61	0.64
1:v:329:THR:HG22	1:w:326:ASN:HD21	1.61	0.64
1:3:440:GLN:HE22	1:3:474:SER:H	1.44	0.64
1:6:562:GLU:OE2	1:6:612:TYR:OH	2.12	0.64
1:8:594:ASP:CG	1:8:595:VAL:H	2.03	0.64
1:J:329:THR:HG22	1:a:326:ASN:HD21	1.60	0.64
1:J:609:ARG:HG2	1:J:610:ASP:H	1.61	0.64
1:M:544:LYS:HD2	1:M:556:LYS:HA	1.79	0.64
1:R:492:SER:O	1:U:458:SER:OG	2.16	0.64
1:V:343:PHE:HB3	1:V:400:SER:HA	1.79	0.64
1:d:470:ILE:O	1:d:472:ASP:N	2.29	0.64
1:s:440:GLN:HE22	1:s:474:SER:H	1.44	0.64
1:z:609:ARG:HG2	1:z:610:ASP:H	1.61	0.64
1:C:470:ILE:O	1:C:472:ASP:N	2.29	0.64
1:M:609:ARG:HG2	1:M:610:ASP:H	1.61	0.64
1:O:440:GLN:HE22	1:O:474:SER:H	1.44	0.64
1:O:710:VAL:HG23	1:O:711:ASP:H	1.63	0.64
1:U:594:ASP:CG	1:U:595:VAL:H	2.03	0.64
1:V:562:GLU:OE2	1:V:612:TYR:OH	2.12	0.64
1:Z:609:ARG:HG2	1:Z:610:ASP:H	1.61	0.64
1:y:343:PHE:HB3	1:y:400:SER:HA	1.79	0.64
1:z:343:PHE:HB3	1:z:400:SER:HA	1.79	0.64
1:2:470:ILE:O	1:2:472:ASP:N	2.29	0.64
1:2:609:ARG:HG2	1:2:610:ASP:H	1.61	0.64
1:B:701:THR:OG1	1:I:698:ILE:O	2.15	0.64
1:H:440:GLN:HE22	1:H:474:SER:H	1.44	0.64
1:M:329:THR:HG22	1:N:326:ASN:HD21	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:710:VAL:HG23	1:R:711:ASP:H	1.63	0.64
1:d:544:LYS:HD2	1:d:556:LYS:HA	1.79	0.64
1:d:609:ARG:HG2	1:d:610:ASP:H	1.61	0.64
1:e:609:ARG:HG2	1:e:610:ASP:H	1.61	0.64
1:i:470:ILE:O	1:i:472:ASP:N	2.29	0.64
1:m:323:VAL:HG21	1:s:656:ASN:HD22	1.62	0.64
1:m:329:THR:HG22	1:s:326:ASN:HD21	1.62	0.64
1:m:609:ARG:HG2	1:m:610:ASP:H	1.61	0.64
1:t:291:PHE:O	1:t:292:SER:OG	2.09	0.64
1:t:710:VAL:HG23	1:t:711:ASP:H	1.63	0.64
1:u:440:GLN:HE22	1:u:474:SER:H	1.44	0.64
1:z:458:SER:OG	1:1:492:SER:O	2.15	0.64
1:3:710:VAL:HG23	1:3:711:ASP:H	1.63	0.64
1:4:343:PHE:HB3	1:4:400:SER:HA	1.78	0.64
1:4:609:ARG:HG2	1:4:610:ASP:H	1.61	0.64
1:5:492:SER:O	1:7:458:SER:OG	2.16	0.64
1:6:710:VAL:HG23	1:6:711:ASP:H	1.63	0.64
1:B:343:PHE:HB3	1:B:400:SER:HA	1.78	0.64
1:F:710:VAL:HG23	1:F:711:ASP:H	1.63	0.64
1:J:544:LYS:HD2	1:J:556:LYS:HA	1.79	0.64
1:L:470:ILE:O	1:L:472:ASP:N	2.29	0.64
1:T:474:SER:HA	1:d:518:ASN:HB2	1.80	0.64
1:Z:440:GLN:HE22	1:Z:474:SER:H	1.44	0.64
1:b:343:PHE:HB3	1:b:400:SER:HA	1.78	0.64
1:c:291:PHE:O	1:c:292:SER:OG	2.09	0.64
1:c:343:PHE:HB3	1:c:400:SER:HA	1.78	0.64
1:e:710:VAL:HG23	1:e:711:ASP:H	1.63	0.64
1:g:470:ILE:O	1:g:472:ASP:N	2.29	0.64
1:m:470:ILE:O	1:m:472:ASP:N	2.29	0.64
1:o:343:PHE:HB3	1:o:400:SER:HA	1.79	0.64
1:v:594:ASP:CG	1:v:595:VAL:H	2.03	0.64
1:6:458:SER:OG	1:7:492:SER:O	2.15	0.64
1:A:343:PHE:HB3	1:A:400:SER:HA	1.78	0.64
1:D:544:LYS:HD2	1:D:556:LYS:HA	1.79	0.64
1:K:544:LYS:HD2	1:K:556:LYS:HA	1.79	0.64
1:M:326:ASN:HD21	1:c:329:THR:HG22	1.62	0.64
1:S:440:GLN:HE22	1:S:474:SER:H	1.44	0.64
1:Z:470:ILE:O	1:Z:472:ASP:N	2.29	0.64
1:c:710:VAL:HG23	1:c:711:ASP:H	1.63	0.64
1:e:440:GLN:HE22	1:e:474:SER:H	1.44	0.64
1:g:701:THR:OG1	1:z:698:ILE:O	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:594:ASP:CG	1:u:595:VAL:H	2.03	0.64
1:w:609:ARG:HG2	1:w:610:ASP:H	1.61	0.64
1:y:562:GLU:OE2	1:y:612:TYR:OH	2.12	0.64
1:1:710:VAL:HG23	1:1:711:ASP:H	1.63	0.64
1:2:544:LYS:HD2	1:2:556:LYS:HA	1.79	0.64
1:7:470:ILE:O	1:7:472:ASP:N	2.29	0.64
1:B:440:GLN:HE22	1:B:474:SER:H	1.44	0.64
1:M:440:GLN:HE22	1:M:474:SER:H	1.44	0.64
1:T:710:VAL:HG23	1:T:711:ASP:H	1.63	0.64
1:W:343:PHE:HB3	1:W:400:SER:HA	1.78	0.64
1:b:440:GLN:HE22	1:b:474:SER:H	1.44	0.64
1:m:440:GLN:HE22	1:m:474:SER:H	1.44	0.64
1:n:343:PHE:HB3	1:n:400:SER:HA	1.79	0.64
1:n:609:ARG:HG2	1:n:610:ASP:H	1.61	0.64
1:o:440:GLN:HE22	1:o:474:SER:H	1.44	0.64
1:s:343:PHE:HB3	1:s:400:SER:HA	1.78	0.64
1:w:710:VAL:HG23	1:w:711:ASP:H	1.63	0.64
1:1:474:SER:HA	1:2:518:ASN:HB2	1.80	0.64
1:3:470:ILE:O	1:3:472:ASP:N	2.29	0.64
1:6:544:LYS:HD2	1:6:556:LYS:HA	1.79	0.64
1:8:343:PHE:HB3	1:8:400:SER:HA	1.78	0.64
1:A:440:GLN:HE22	1:A:474:SER:H	1.44	0.64
1:B:474:SER:HA	1:J:518:ASN:HB2	1.80	0.64
1:E:470:ILE:O	1:E:472:ASP:N	2.29	0.64
1:H:474:SER:HA	1:W:518:ASN:HB2	1.80	0.64
1:I:291:PHE:O	1:I:292:SER:OG	2.09	0.64
1:I:343:PHE:HB3	1:I:400:SER:HA	1.79	0.64
1:I:470:ILE:O	1:I:472:ASP:N	2.29	0.64
1:I:562:GLU:OE2	1:I:612:TYR:OH	2.12	0.64
1:I:710:VAL:HG23	1:I:711:ASP:H	1.63	0.64
1:J:440:GLN:HE22	1:J:474:SER:H	1.44	0.64
1:M:518:ASN:HB2	1:b:474:SER:HA	1.80	0.64
1:N:474:SER:HA	1:P:518:ASN:HB2	1.80	0.64
1:N:483:TYR:O	1:N:484:ARG:HG2	1.98	0.64
1:O:470:ILE:O	1:O:472:ASP:N	2.29	0.64
1:P:343:PHE:HB3	1:P:400:SER:HA	1.79	0.64
1:P:470:ILE:O	1:P:472:ASP:N	2.29	0.64
1:S:594:ASP:CG	1:S:595:VAL:H	2.03	0.64
1:S:710:VAL:HG23	1:S:711:ASP:H	1.63	0.64
1:V:291:PHE:O	1:V:292:SER:OG	2.09	0.64
1:W:470:ILE:O	1:W:472:ASP:N	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:474:SER:HA	1:8:518:ASN:HB2	1.80	0.64
1:a:544:LYS:HD2	1:a:556:LYS:HA	1.79	0.64
1:j:544:LYS:HD2	1:j:556:LYS:HA	1.79	0.64
1:m:544:LYS:HD2	1:m:556:LYS:HA	1.79	0.64
1:q:343:PHE:HB3	1:q:400:SER:HA	1.78	0.64
1:q:470:ILE:O	1:q:472:ASP:N	2.29	0.64
1:q:562:GLU:OE2	1:q:612:TYR:OH	2.12	0.64
1:r:440:GLN:HE22	1:r:474:SER:H	1.44	0.64
1:y:291:PHE:O	1:y:292:SER:OG	2.09	0.64
1:1:343:PHE:HB3	1:1:400:SER:HA	1.78	0.64
1:5:343:PHE:HB3	1:5:400:SER:HA	1.79	0.64
1:6:291:PHE:O	1:6:292:SER:OG	2.09	0.64
1:7:609:ARG:HG2	1:7:610:ASP:H	1.61	0.64
1:8:470:ILE:O	1:8:472:ASP:N	2.29	0.64
1:F:544:LYS:HD2	1:F:556:LYS:HA	1.79	0.64
1:H:710:VAL:HG23	1:H:711:ASP:H	1.63	0.64
1:M:492:SER:O	1:b:458:SER:OG	2.16	0.64
1:N:544:LYS:HD2	1:N:556:LYS:HA	1.79	0.64
1:N:609:ARG:HG2	1:N:610:ASP:H	1.61	0.64
1:O:518:ASN:HB2	1:n:474:SER:HA	1.80	0.64
1:T:343:PHE:HB3	1:T:400:SER:HA	1.79	0.64
1:Y:440:GLN:HE22	1:Y:474:SER:H	1.44	0.64
1:a:483:TYR:O	1:a:484:ARG:HG2	1.98	0.64
1:c:474:SER:HA	1:o:518:ASN:HB2	1.80	0.64
1:c:562:GLU:OE2	1:c:612:TYR:OH	2.12	0.64
1:f:544:LYS:HD2	1:f:556:LYS:HA	1.79	0.64
1:g:710:VAL:HG23	1:g:711:ASP:H	1.63	0.64
1:i:483:TYR:O	1:i:484:ARG:HG2	1.98	0.64
1:k:440:GLN:HE22	1:k:474:SER:H	1.44	0.64
1:n:483:TYR:O	1:n:484:ARG:HG2	1.98	0.64
1:3:518:ASN:HB2	1:4:474:SER:HA	1.80	0.64
1:4:483:TYR:O	1:4:484:ARG:HG2	1.98	0.64
1:A:518:ASN:HB2	1:I:474:SER:HA	1.80	0.63
1:A:710:VAL:HG23	1:A:711:ASP:H	1.63	0.63
1:B:458:SER:OG	1:J:492:SER:O	2.16	0.63
1:D:710:VAL:HG23	1:D:711:ASP:H	1.63	0.63
1:H:343:PHE:HB3	1:H:400:SER:HA	1.78	0.63
1:K:710:VAL:HG23	1:K:711:ASP:H	1.63	0.63
1:Q:710:VAL:HG23	1:Q:711:ASP:H	1.63	0.63
1:S:609:ARG:HG2	1:S:610:ASP:H	1.61	0.63
1:U:483:TYR:O	1:U:484:ARG:HG2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:544:LYS:HD2	1:Z:556:LYS:HA	1.79	0.63
1:d:474:SER:HA	1:l:518:ASN:HB2	1.79	0.63
1:f:483:TYR:O	1:f:484:ARG:HG2	1.99	0.63
1:g:483:TYR:O	1:g:484:ARG:HG2	1.99	0.63
1:h:440:GLN:HE22	1:h:474:SER:H	1.44	0.63
1:i:710:VAL:HG23	1:i:711:ASP:H	1.63	0.63
1:j:483:TYR:O	1:j:484:ARG:HG2	1.98	0.63
1:k:343:PHE:HB3	1:k:400:SER:HA	1.79	0.63
1:q:710:VAL:HG23	1:q:711:ASP:H	1.63	0.63
1:s:710:VAL:HG23	1:s:711:ASP:H	1.63	0.63
1:z:440:GLN:HE22	1:z:474:SER:H	1.44	0.63
1:z:492:SER:O	1:2:458:SER:OG	2.13	0.63
1:5:710:VAL:HG23	1:5:711:ASP:H	1.63	0.63
1:F:483:TYR:O	1:F:484:ARG:HG2	1.98	0.63
1:K:440:GLN:HE22	1:K:474:SER:H	1.44	0.63
1:Q:343:PHE:HB3	1:Q:400:SER:HA	1.79	0.63
1:U:343:PHE:HB3	1:U:400:SER:HA	1.79	0.63
1:V:518:ASN:HB2	1:X:474:SER:HA	1.80	0.63
1:X:544:LYS:HD2	1:X:556:LYS:HA	1.79	0.63
1:X:609:ARG:HG2	1:X:610:ASP:H	1.61	0.63
1:a:609:ARG:HG2	1:a:610:ASP:H	1.61	0.63
1:c:470:ILE:O	1:c:472:ASP:N	2.29	0.63
1:c:541:ILE:HG21	1:p:443:TYR:HB2	1.79	0.63
1:s:291:PHE:O	1:s:292:SER:OG	2.09	0.63
1:u:474:SER:HA	1:v:518:ASN:HB2	1.80	0.63
1:u:483:TYR:O	1:u:484:ARG:HG2	1.98	0.63
1:u:710:VAL:HG23	1:u:711:ASP:H	1.63	0.63
1:v:483:TYR:O	1:v:484:ARG:HG2	1.98	0.63
1:w:440:GLN:HE22	1:w:474:SER:H	1.44	0.63
1:x:291:PHE:O	1:x:292:SER:OG	2.09	0.63
1:x:474:SER:HA	1:y:518:ASN:HB2	1.80	0.63
1:x:544:LYS:HD2	1:x:556:LYS:HA	1.79	0.63
1:A:474:SER:HA	1:G:518:ASN:HB2	1.80	0.63
1:D:518:ASN:HB2	1:P:474:SER:HA	1.80	0.63
1:D:562:GLU:OE2	1:D:612:TYR:OH	2.12	0.63
1:H:470:ILE:O	1:H:472:ASP:N	2.29	0.63
1:K:562:GLU:OE2	1:K:612:TYR:OH	2.12	0.63
1:M:470:ILE:O	1:M:472:ASP:N	2.29	0.63
1:M:483:TYR:O	1:M:484:ARG:HG2	1.98	0.63
1:S:474:SER:HA	1:U:518:ASN:HB2	1.80	0.63
1:S:483:TYR:O	1:S:484:ARG:HG2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:544:LYS:HD2	1:S:556:LYS:HA	1.79	0.63
1:W:562:GLU:OE2	1:W:612:TYR:OH	2.12	0.63
1:W:710:VAL:HG23	1:W:711:ASP:H	1.63	0.63
1:h:343:PHE:HB3	1:h:400:SER:HA	1.79	0.63
1:h:483:TYR:O	1:h:484:ARG:HG2	1.98	0.63
1:j:609:ARG:HG2	1:j:610:ASP:H	1.61	0.63
1:l:440:GLN:HE22	1:l:474:SER:H	1.44	0.63
1:o:710:VAL:HG23	1:o:711:ASP:H	1.63	0.63
1:r:483:TYR:O	1:r:484:ARG:HG2	1.98	0.63
1:r:562:GLU:OE2	1:r:612:TYR:OH	2.12	0.63
1:s:470:ILE:O	1:s:472:ASP:N	2.29	0.63
1:v:343:PHE:HB3	1:v:400:SER:HA	1.78	0.63
1:x:609:ARG:HG2	1:x:610:ASP:H	1.61	0.63
1:1:562:GLU:OE2	1:1:612:TYR:OH	2.12	0.63
1:6:483:TYR:O	1:6:484:ARG:HG2	1.98	0.63
1:C:474:SER:HA	1:b:518:ASN:HB2	1.80	0.63
1:E:492:SER:O	1:F:458:SER:OG	2.16	0.63
1:E:609:ARG:HG2	1:E:610:ASP:H	1.61	0.63
1:F:291:PHE:O	1:F:292:SER:OG	2.09	0.63
1:G:291:PHE:O	1:G:292:SER:OG	2.09	0.63
1:H:291:PHE:O	1:H:292:SER:OG	2.09	0.63
1:J:483:TYR:O	1:J:484:ARG:HG2	1.98	0.63
1:P:440:GLN:HE22	1:P:474:SER:H	1.44	0.63
1:Q:470:ILE:O	1:Q:472:ASP:N	2.29	0.63
1:R:483:TYR:O	1:R:484:ARG:HG2	1.98	0.63
1:V:440:GLN:HE22	1:V:474:SER:H	1.44	0.63
1:Y:483:TYR:O	1:Y:484:ARG:HG2	1.98	0.63
1:b:291:PHE:O	1:b:292:SER:OG	2.09	0.63
1:c:374:GLN:HE21	1:p:437:LEU:HD13	1.62	0.63
1:f:470:ILE:O	1:f:472:ASP:N	2.29	0.63
1:h:562:GLU:OE2	1:h:612:TYR:OH	2.12	0.63
1:l:710:VAL:HG23	1:l:711:ASP:H	1.63	0.63
1:t:483:TYR:O	1:t:484:ARG:HG2	1.98	0.63
1:u:609:ARG:HG2	1:u:610:ASP:H	1.61	0.63
1:v:562:GLU:OE2	1:v:612:TYR:OH	2.12	0.63
1:y:440:GLN:HE22	1:y:474:SER:H	1.44	0.63
1:5:474:SER:HA	1:6:518:ASN:HB2	1.81	0.63
1:D:440:GLN:HE22	1:D:474:SER:H	1.44	0.63
1:G:544:LYS:HD2	1:G:556:LYS:HA	1.79	0.63
1:K:518:ASN:HB2	1:8:474:SER:HA	1.80	0.63
1:O:361:CYS:SG	1:O:362:LEU:N	2.72	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:474:SER:HA	1:S:518:ASN:HB2	1.81	0.63
1:W:483:TYR:O	1:W:484:ARG:HG2	1.98	0.63
1:Y:544:LYS:HD2	1:Y:556:LYS:HA	1.79	0.63
1:f:609:ARG:HG2	1:f:610:ASP:H	1.61	0.63
1:j:470:ILE:O	1:j:472:ASP:N	2.29	0.63
1:k:483:TYR:O	1:k:484:ARG:HG2	1.98	0.63
1:l:483:TYR:O	1:l:484:ARG:HG2	1.98	0.63
1:p:544:LYS:HD2	1:p:556:LYS:HA	1.79	0.63
1:t:474:SER:HA	1:u:518:ASN:HB2	1.81	0.63
1:t:656:ASN:HD22	1:y:323:VAL:HG21	1.64	0.63
1:u:544:LYS:HD2	1:u:556:LYS:HA	1.79	0.63
1:z:518:ASN:HB2	1:2:474:SER:HA	1.80	0.63
1:3:361:CYS:SG	1:3:362:LEU:N	2.72	0.63
1:B:518:ASN:HB2	1:L:474:SER:HA	1.80	0.63
1:B:656:ASN:HD22	1:C:323:VAL:HG21	1.64	0.63
1:C:518:ASN:HB2	1:M:474:SER:HA	1.81	0.63
1:F:518:ASN:HB2	1:Q:474:SER:HA	1.81	0.63
1:N:361:CYS:SG	1:N:362:LEU:N	2.72	0.63
1:R:656:ASN:HD22	1:V:323:VAL:HG21	1.64	0.63
1:T:562:GLU:OE2	1:T:612:TYR:OH	2.12	0.63
1:X:291:PHE:O	1:X:292:SER:OG	2.09	0.63
1:X:361:CYS:SG	1:X:362:LEU:N	2.72	0.63
1:Y:562:GLU:OE2	1:Y:612:TYR:OH	2.12	0.63
1:Z:483:TYR:O	1:Z:484:ARG:HG2	1.98	0.63
1:a:361:CYS:SG	1:a:362:LEU:N	2.72	0.63
1:h:710:VAL:HG23	1:h:711:ASP:H	1.63	0.63
1:j:710:VAL:HG23	1:j:711:ASP:H	1.63	0.63
1:k:361:CYS:SG	1:k:362:LEU:N	2.72	0.63
1:m:483:TYR:O	1:m:484:ARG:HG2	1.98	0.63
1:p:710:VAL:HG23	1:p:711:ASP:H	1.63	0.63
1:w:470:ILE:O	1:w:472:ASP:N	2.29	0.63
1:x:361:CYS:SG	1:x:362:LEU:N	2.72	0.63
1:x:483:TYR:O	1:x:484:ARG:HG2	1.98	0.63
1:x:710:VAL:HG23	1:x:711:ASP:H	1.63	0.63
1:z:483:TYR:O	1:z:484:ARG:HG2	1.99	0.63
1:z:710:VAL:HG23	1:z:711:ASP:H	1.63	0.63
1:3:483:TYR:O	1:3:484:ARG:HG2	1.98	0.63
1:7:710:VAL:HG23	1:7:711:ASP:H	1.63	0.63
1:E:562:GLU:OE2	1:E:612:TYR:OH	2.12	0.63
1:E:710:VAL:HG23	1:E:711:ASP:H	1.63	0.63
1:G:710:VAL:HG23	1:G:711:ASP:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:474:SER:HA	1:L:518:ASN:HB2	1.81	0.63
1:L:323:VAL:HG21	1:b:656:ASN:HD22	1.64	0.63
1:M:710:VAL:HG23	1:M:711:ASP:H	1.63	0.63
1:O:483:TYR:O	1:O:484:ARG:HG2	1.99	0.63
1:P:483:TYR:O	1:P:484:ARG:HG2	1.99	0.63
1:U:470:ILE:O	1:U:472:ASP:N	2.29	0.63
1:U:562:GLU:OE2	1:U:612:TYR:OH	2.12	0.63
1:V:483:TYR:O	1:V:484:ARG:HG2	1.99	0.63
1:a:625:ASP:OD1	1:a:625:ASP:N	2.23	0.63
1:b:470:ILE:O	1:b:472:ASP:N	2.29	0.63
1:e:361:CYS:SG	1:e:362:LEU:N	2.72	0.63
1:f:710:VAL:HG23	1:f:711:ASP:H	1.63	0.63
1:h:361:CYS:SG	1:h:362:LEU:N	2.72	0.63
1:k:562:GLU:OE2	1:k:612:TYR:OH	2.12	0.63
1:k:710:VAL:HG23	1:k:711:ASP:H	1.63	0.63
1:n:710:VAL:HG23	1:n:711:ASP:H	1.63	0.63
1:q:483:TYR:O	1:q:484:ARG:HG2	1.98	0.63
1:7:562:GLU:OE2	1:7:612:TYR:OH	2.12	0.63
1:8:440:GLN:HE22	1:8:474:SER:H	1.44	0.63
1:8:483:TYR:O	1:8:484:ARG:HG2	1.98	0.63
1:J:710:VAL:HG23	1:J:711:ASP:H	1.63	0.63
1:P:710:VAL:HG23	1:P:711:ASP:H	1.63	0.63
1:V:458:SER:OG	1:e:492:SER:O	2.16	0.63
1:f:518:ASN:HB2	1:g:474:SER:HA	1.80	0.63
1:n:562:GLU:OE2	1:n:612:TYR:OH	2.12	0.63
1:p:291:PHE:O	1:p:292:SER:OG	2.09	0.63
1:7:361:CYS:SG	1:7:362:LEU:N	2.72	0.63
1:8:710:VAL:HG23	1:8:711:ASP:H	1.63	0.63
1:A:291:PHE:O	1:A:292:SER:OG	2.09	0.63
1:A:483:TYR:O	1:A:484:ARG:HG2	1.98	0.63
1:K:483:TYR:O	1:K:484:ARG:HG2	1.99	0.63
1:L:483:TYR:O	1:L:484:ARG:HG2	1.98	0.63
1:V:474:SER:HA	1:e:518:ASN:HB2	1.80	0.63
1:W:440:GLN:HE22	1:W:474:SER:H	1.44	0.63
1:X:483:TYR:O	1:X:484:ARG:HG2	1.98	0.63
1:X:710:VAL:HG23	1:X:711:ASP:H	1.63	0.63
1:d:361:CYS:SG	1:d:362:LEU:N	2.72	0.63
1:d:440:GLN:HE22	1:d:474:SER:H	1.44	0.63
1:e:470:ILE:O	1:e:472:ASP:N	2.29	0.63
1:i:458:SER:OG	1:j:492:SER:O	2.16	0.63
1:m:710:VAL:HG23	1:m:711:ASP:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:440:GLN:HE22	1:q:474:SER:H	1.44	0.63
1:r:544:LYS:HD2	1:r:556:LYS:HA	1.79	0.63
1:w:361:CYS:SG	1:w:362:LEU:N	2.72	0.63
1:y:483:TYR:O	1:y:484:ARG:HG2	1.99	0.63
1:2:361:CYS:SG	1:2:362:LEU:N	2.72	0.63
1:4:710:VAL:HG23	1:4:711:ASP:H	1.63	0.63
1:A:499:GLU:HA	1:I:448:THR:HG23	1.80	0.62
1:D:483:TYR:O	1:D:484:ARG:HG2	1.99	0.62
1:E:342:VAL:HG13	1:E:343:PHE:H	1.64	0.62
1:I:329:THR:HG22	1:J:326:ASN:HD21	1.63	0.62
1:K:474:SER:HA	1:a:518:ASN:HB2	1.80	0.62
1:P:323:VAL:HG21	1:Q:656:ASN:HD22	1.64	0.62
1:X:656:ASN:HD22	1:f:323:VAL:HG21	1.64	0.62
1:Z:710:VAL:HG23	1:Z:711:ASP:H	1.63	0.62
1:b:483:TYR:O	1:b:484:ARG:HG2	1.98	0.62
1:c:483:TYR:O	1:c:484:ARG:HG2	1.98	0.62
1:o:483:TYR:O	1:o:484:ARG:HG2	1.98	0.62
1:p:361:CYS:SG	1:p:362:LEU:N	2.72	0.62
1:q:323:VAL:HG21	1:y:656:ASN:HD22	1.64	0.62
1:q:492:SER:O	1:s:458:SER:OG	2.16	0.62
1:v:470:ILE:O	1:v:472:ASP:N	2.29	0.62
1:z:659:THR:HG22	1:4:250:PRO:HB2	1.80	0.62
1:2:440:GLN:HE22	1:2:474:SER:H	1.44	0.62
1:5:656:ASN:HD22	1:8:323:VAL:HG21	1.64	0.62
1:B:470:ILE:O	1:B:472:ASP:N	2.29	0.62
1:C:483:TYR:O	1:C:484:ARG:HG2	1.98	0.62
1:C:710:VAL:HG23	1:C:711:ASP:H	1.63	0.62
1:D:474:SER:HA	1:N:518:ASN:HB2	1.80	0.62
1:E:361:CYS:SG	1:E:362:LEU:N	2.72	0.62
1:E:518:ASN:HB2	1:F:474:SER:HA	1.80	0.62
1:G:483:TYR:O	1:G:484:ARG:HG2	1.98	0.62
1:T:483:TYR:O	1:T:484:ARG:HG2	1.98	0.62
1:b:701:THR:OG1	1:c:698:ILE:O	2.17	0.62
1:e:323:VAL:HG21	1:h:656:ASN:HD22	1.64	0.62
1:t:342:VAL:HG13	1:t:343:PHE:H	1.64	0.62
1:w:483:TYR:O	1:w:484:ARG:HG2	1.98	0.62
1:w:518:ASN:HB2	1:y:474:SER:HA	1.80	0.62
1:5:342:VAL:HG13	1:5:343:PHE:H	1.64	0.62
1:6:474:SER:HA	1:7:518:ASN:HB2	1.80	0.62
1:7:342:VAL:HG13	1:7:343:PHE:H	1.64	0.62
1:A:458:SER:OG	1:G:492:SER:O	2.17	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:483:TYR:O	1:B:484:ARG:HG2	1.98	0.62
1:G:361:CYS:SG	1:G:362:LEU:N	2.72	0.62
1:H:458:SER:OG	1:W:492:SER:O	2.16	0.62
1:H:483:TYR:O	1:H:484:ARG:HG2	1.98	0.62
1:I:483:TYR:O	1:I:484:ARG:HG2	1.99	0.62
1:J:361:CYS:SG	1:J:362:LEU:N	2.72	0.62
1:K:656:ASN:HD22	1:7:323:VAL:HG21	1.64	0.62
1:L:710:VAL:HG23	1:L:711:ASP:H	1.63	0.62
1:N:342:VAL:HG13	1:N:343:PHE:H	1.64	0.62
1:N:625:ASP:OD1	1:N:625:ASP:N	2.23	0.62
1:Q:342:VAL:HG13	1:Q:343:PHE:H	1.65	0.62
1:S:342:VAL:HG13	1:S:343:PHE:H	1.64	0.62
1:a:342:VAL:HG13	1:a:343:PHE:H	1.64	0.62
1:c:656:ASN:HD22	1:s:323:VAL:HG21	1.64	0.62
1:g:518:ASN:HB2	1:h:474:SER:HA	1.81	0.62
1:i:518:ASN:HB2	1:k:474:SER:HA	1.81	0.62
1:j:323:VAL:HG21	1:x:656:ASN:HD22	1.65	0.62
1:j:416:GLU:HG2	1:j:417:ASP:N	2.15	0.62
1:w:492:SER:O	1:y:458:SER:OG	2.16	0.62
1:z:656:ASN:HD22	1:4:323:VAL:HG21	1.64	0.62
1:1:483:TYR:O	1:1:484:ARG:HG2	1.98	0.62
1:4:562:GLU:OE2	1:4:612:TYR:OH	2.12	0.62
1:A:416:GLU:HG2	1:A:417:ASP:N	2.15	0.62
1:A:656:ASN:HD22	1:B:323:VAL:HG21	1.65	0.62
1:F:656:ASN:HD22	1:R:323:VAL:HG21	1.64	0.62
1:K:416:GLU:HG2	1:K:417:ASP:N	2.15	0.62
1:O:416:GLU:HG2	1:O:417:ASP:N	2.15	0.62
1:O:492:SER:O	1:n:458:SER:OG	2.16	0.62
1:R:342:VAL:HG13	1:R:343:PHE:H	1.65	0.62
1:V:416:GLU:HG2	1:V:417:ASP:N	2.15	0.62
1:X:470:ILE:O	1:X:472:ASP:N	2.29	0.62
1:d:483:TYR:O	1:d:484:ARG:HG2	1.98	0.62
1:e:483:TYR:O	1:e:484:ARG:HG2	1.98	0.62
1:f:416:GLU:HG2	1:f:417:ASP:N	2.15	0.62
1:j:342:VAL:HG13	1:j:343:PHE:H	1.64	0.62
1:o:291:PHE:O	1:o:292:SER:OG	2.09	0.62
1:o:416:GLU:HG2	1:o:417:ASP:N	2.15	0.62
1:p:483:TYR:O	1:p:484:ARG:HG2	1.99	0.62
1:r:342:VAL:HG13	1:r:343:PHE:H	1.64	0.62
1:t:323:VAL:HG21	1:6:656:ASN:HD22	1.64	0.62
1:x:470:ILE:O	1:x:472:ASP:N	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:416:GLU:HG2	1:y:417:ASP:N	2.15	0.62
1:3:416:GLU:HG2	1:3:417:ASP:N	2.15	0.62
1:B:710:VAL:HG23	1:B:711:ASP:H	1.63	0.62
1:D:416:GLU:HG2	1:D:417:ASP:N	2.15	0.62
1:F:342:VAL:HG13	1:F:343:PHE:H	1.65	0.62
1:G:342:VAL:HG13	1:G:343:PHE:H	1.65	0.62
1:M:342:VAL:HG13	1:M:343:PHE:H	1.64	0.62
1:M:361:CYS:SG	1:M:362:LEU:N	2.72	0.62
1:P:250:PRO:HB2	1:Q:659:THR:HG22	1.82	0.62
1:Q:483:TYR:O	1:Q:484:ARG:HG2	1.98	0.62
1:R:458:SER:OG	1:S:492:SER:O	2.16	0.62
1:W:594:ASP:CG	1:W:595:VAL:H	2.03	0.62
1:Y:291:PHE:O	1:Y:292:SER:OG	2.09	0.62
1:f:492:SER:O	1:g:458:SER:OG	2.16	0.62
1:i:474:SER:HA	1:j:518:ASN:HB2	1.80	0.62
1:k:656:ASN:HD22	1:w:323:VAL:HG21	1.65	0.62
1:l:297:GLN:HA	1:l:300:ILE:HG22	1.82	0.62
1:l:656:ASN:HD22	1:n:323:VAL:HG21	1.64	0.62
1:u:342:VAL:HG13	1:u:343:PHE:H	1.64	0.62
1:z:341:GLN:HG2	1:z:402:MET:HG2	1.82	0.62
1:3:492:SER:O	1:4:458:SER:OG	2.16	0.62
1:6:342:VAL:HG13	1:6:343:PHE:H	1.64	0.62
1:C:342:VAL:HG13	1:C:343:PHE:H	1.65	0.62
1:D:342:VAL:HG13	1:D:343:PHE:H	1.64	0.62
1:D:656:ASN:HD22	1:E:323:VAL:HG21	1.65	0.62
1:J:342:VAL:HG13	1:J:343:PHE:H	1.65	0.62
1:R:518:ASN:HB2	1:U:474:SER:HA	1.81	0.62
1:V:656:ASN:HD22	1:W:323:VAL:HG21	1.64	0.62
1:W:416:GLU:HG2	1:W:417:ASP:N	2.15	0.62
1:X:518:ASN:HB2	1:e:474:SER:HA	1.80	0.62
1:Z:474:SER:HA	1:4:518:ASN:HB2	1.80	0.62
1:a:710:VAL:HG23	1:a:711:ASP:H	1.63	0.62
1:b:710:VAL:HG23	1:b:711:ASP:H	1.63	0.62
1:d:710:VAL:HG23	1:d:711:ASP:H	1.63	0.62
1:f:342:VAL:HG13	1:f:343:PHE:H	1.65	0.62
1:i:297:GLN:HA	1:i:300:ILE:HG22	1.82	0.62
1:k:297:GLN:HA	1:k:300:ILE:HG22	1.82	0.62
1:l:341:GLN:HG2	1:l:402:MET:HG2	1.82	0.62
1:p:342:VAL:HG13	1:p:343:PHE:H	1.65	0.62
1:q:416:GLU:HG2	1:q:417:ASP:N	2.15	0.62
1:q:458:SER:OG	1:r:492:SER:O	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:483:TYR:O	1:s:484:ARG:HG2	1.99	0.62
1:z:297:GLN:HA	1:z:300:ILE:HG22	1.82	0.62
1:1:291:PHE:O	1:1:292:SER:OG	2.09	0.62
1:2:483:TYR:O	1:2:484:ARG:HG2	1.98	0.62
1:5:483:TYR:O	1:5:484:ARG:HG2	1.98	0.62
1:A:698:ILE:O	1:F:701:THR:OG1	2.17	0.62
1:H:518:ASN:HB2	1:Y:474:SER:HA	1.81	0.62
1:K:297:GLN:HA	1:K:300:ILE:HG22	1.82	0.62
1:K:492:SER:O	1:8:458:SER:OG	2.16	0.62
1:L:342:VAL:HG13	1:L:343:PHE:H	1.65	0.62
1:N:710:VAL:HG23	1:N:711:ASP:H	1.63	0.62
1:R:416:GLU:HG2	1:R:417:ASP:N	2.15	0.62
1:T:291:PHE:O	1:T:292:SER:OG	2.09	0.62
1:V:361:CYS:SG	1:V:362:LEU:N	2.72	0.62
1:Y:342:VAL:HG13	1:Y:343:PHE:H	1.65	0.62
1:Z:342:VAL:HG13	1:Z:343:PHE:H	1.65	0.62
1:d:297:GLN:HA	1:d:300:ILE:HG22	1.82	0.62
1:g:297:GLN:HA	1:g:300:ILE:HG22	1.82	0.62
1:g:656:ASN:HD22	1:k:323:VAL:HG21	1.64	0.62
1:h:297:GLN:HA	1:h:300:ILE:HG22	1.82	0.62
1:i:701:THR:OG1	1:l:698:ILE:O	2.17	0.62
1:l:416:GLU:HG2	1:l:417:ASP:N	2.15	0.62
1:m:342:VAL:HG13	1:m:343:PHE:H	1.65	0.62
1:n:341:GLN:HG2	1:n:402:MET:HG2	1.82	0.62
1:u:656:ASN:HD22	1:5:323:VAL:HG21	1.64	0.62
1:v:323:VAL:HG21	1:w:656:ASN:HD22	1.64	0.62
1:w:341:GLN:HG2	1:w:402:MET:HG2	1.82	0.62
1:y:710:VAL:HG23	1:y:711:ASP:H	1.63	0.62
1:1:342:VAL:HG13	1:1:343:PHE:H	1.64	0.62
1:3:291:PHE:O	1:3:292:SER:OG	2.09	0.62
1:4:341:GLN:HG2	1:4:402:MET:HG2	1.82	0.62
1:4:342:VAL:HG13	1:4:343:PHE:H	1.64	0.62
1:5:518:ASN:HB2	1:7:474:SER:HA	1.81	0.62
1:5:659:THR:HG22	1:8:250:PRO:HB2	1.82	0.62
1:D:492:SER:O	1:P:458:SER:OG	2.16	0.62
1:E:341:GLN:HG2	1:E:402:MET:HG2	1.82	0.62
1:G:470:ILE:O	1:G:472:ASP:N	2.29	0.62
1:H:297:GLN:HA	1:H:300:ILE:HG22	1.82	0.62
1:Q:323:VAL:HG21	1:S:656:ASN:HD22	1.64	0.62
1:Q:341:GLN:HG2	1:Q:402:MET:HG2	1.82	0.62
1:U:710:VAL:HG23	1:U:711:ASP:H	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:710:VAL:HG23	1:V:711:ASP:H	1.63	0.62
1:W:458:SER:OG	1:Y:492:SER:O	2.16	0.62
1:X:341:GLN:HG2	1:X:402:MET:HG2	1.82	0.62
1:Y:416:GLU:HG2	1:Y:417:ASP:N	2.15	0.62
1:c:361:CYS:SG	1:c:362:LEU:N	2.72	0.62
1:e:297:GLN:HA	1:e:300:ILE:HG22	1.82	0.62
1:e:341:GLN:HG2	1:e:402:MET:HG2	1.82	0.62
1:e:342:VAL:HG13	1:e:343:PHE:H	1.64	0.62
1:f:523:MET:HG3	1:f:524:ALA:HB2	1.82	0.62
1:h:323:VAL:HG21	1:i:656:ASN:HD22	1.64	0.62
1:h:416:GLU:HG2	1:h:417:ASP:N	2.15	0.62
1:j:523:MET:HG3	1:j:524:ALA:HB2	1.82	0.62
1:k:416:GLU:HG2	1:k:417:ASP:N	2.15	0.62
1:q:633:LEU:HB2	1:s:476:ASN:HA	1.81	0.62
1:r:341:GLN:HG2	1:r:402:MET:HG2	1.82	0.62
1:v:710:VAL:HG23	1:v:711:ASP:H	1.63	0.62
1:w:342:VAL:HG13	1:w:343:PHE:H	1.64	0.62
1:z:416:GLU:HG2	1:z:417:ASP:N	2.15	0.62
1:2:342:VAL:HG13	1:2:343:PHE:H	1.65	0.62
1:2:710:VAL:HG23	1:2:711:ASP:H	1.63	0.62
1:5:341:GLN:HG2	1:5:402:MET:HG2	1.82	0.62
1:7:341:GLN:HG2	1:7:402:MET:HG2	1.82	0.62
1:E:474:SER:HA	1:Q:518:ASN:HB2	1.81	0.62
1:G:297:GLN:HA	1:G:300:ILE:HG22	1.82	0.62
1:G:474:SER:HA	1:I:518:ASN:HB2	1.80	0.62
1:H:656:ASN:HD22	1:Z:323:VAL:HG21	1.64	0.62
1:I:361:CYS:SG	1:I:362:LEU:N	2.72	0.62
1:K:342:VAL:HG13	1:K:343:PHE:H	1.65	0.62
1:M:323:VAL:HG21	1:N:656:ASN:HD22	1.64	0.62
1:O:291:PHE:O	1:O:292:SER:OG	2.09	0.62
1:S:323:VAL:HG21	1:d:656:ASN:HD22	1.64	0.62
1:T:341:GLN:HG2	1:T:402:MET:HG2	1.82	0.62
1:T:342:VAL:HG13	1:T:343:PHE:H	1.65	0.62
1:W:625:ASP:OD1	1:W:625:ASP:N	2.23	0.62
1:Y:341:GLN:HG2	1:Y:402:MET:HG2	1.82	0.62
1:b:416:GLU:HG2	1:b:417:ASP:N	2.15	0.62
1:i:361:CYS:SG	1:i:362:LEU:N	2.72	0.62
1:j:474:SER:HA	1:k:518:ASN:HB2	1.81	0.62
1:l:342:VAL:HG13	1:l:343:PHE:H	1.65	0.62
1:m:250:PRO:HB2	1:s:659:THR:HG22	1.82	0.62
1:n:297:GLN:HA	1:n:300:ILE:HG22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:476:ASN:HA	1:p:633:LEU:HB2	1.82	0.62
1:q:474:SER:HA	1:r:518:ASN:HB2	1.80	0.62
1:r:291:PHE:O	1:r:292:SER:OG	2.09	0.62
1:s:297:GLN:HA	1:s:300:ILE:HG22	1.82	0.62
1:t:416:GLU:HG2	1:t:417:ASP:N	2.15	0.62
1:z:474:SER:HA	1:1:518:ASN:HB2	1.81	0.62
1:1:341:GLN:HG2	1:1:402:MET:HG2	1.82	0.62
1:2:297:GLN:HA	1:2:300:ILE:HG22	1.82	0.62
1:4:297:GLN:HA	1:4:300:ILE:HG22	1.82	0.62
1:7:625:ASP:OD1	1:7:625:ASP:N	2.23	0.62
1:D:297:GLN:HA	1:D:300:ILE:HG22	1.82	0.62
1:E:625:ASP:OD1	1:E:625:ASP:N	2.23	0.62
1:N:297:GLN:HA	1:N:300:ILE:HG22	1.82	0.62
1:N:323:VAL:HG21	1:m:656:ASN:HD22	1.64	0.62
1:O:323:VAL:HG21	1:P:656:ASN:HD22	1.64	0.62
1:S:361:CYS:SG	1:S:362:LEU:N	2.72	0.62
1:T:323:VAL:HG21	1:U:656:ASN:HD22	1.64	0.62
1:U:323:VAL:HG21	1:e:656:ASN:HD22	1.65	0.62
1:W:474:SER:HA	1:Y:518:ASN:HB2	1.81	0.62
1:b:323:VAL:HG21	1:o:656:ASN:HD22	1.65	0.62
1:b:342:VAL:HG13	1:b:343:PHE:H	1.64	0.62
1:d:342:VAL:HG13	1:d:343:PHE:H	1.65	0.62
1:f:474:SER:HA	1:h:518:ASN:HB2	1.81	0.62
1:n:342:VAL:HG13	1:n:343:PHE:H	1.65	0.62
1:n:416:GLU:HG2	1:n:417:ASP:N	2.15	0.62
1:p:297:GLN:HA	1:p:300:ILE:HG22	1.82	0.62
1:p:470:ILE:O	1:p:472:ASP:N	2.29	0.62
1:r:710:VAL:HG23	1:r:711:ASP:H	1.63	0.62
1:w:297:GLN:HA	1:w:300:ILE:HG22	1.82	0.62
1:w:474:SER:HA	1:x:518:ASN:HB2	1.80	0.62
1:x:341:GLN:HG2	1:x:402:MET:HG2	1.82	0.62
1:z:342:VAL:HG13	1:z:343:PHE:H	1.64	0.62
1:3:323:VAL:HG21	1:8:656:ASN:HD22	1.64	0.62
1:7:297:GLN:HA	1:7:300:ILE:HG22	1.82	0.62
1:B:416:GLU:HG2	1:B:417:ASP:N	2.15	0.61
1:C:492:SER:O	1:M:458:SER:OG	2.16	0.61
1:D:341:GLN:HG2	1:D:402:MET:HG2	1.82	0.61
1:G:523:MET:HG3	1:G:524:ALA:HB2	1.82	0.61
1:I:341:GLN:HG2	1:I:402:MET:HG2	1.82	0.61
1:I:523:MET:HG3	1:I:524:ALA:HB2	1.82	0.61
1:J:323:VAL:HG21	1:a:656:ASN:HD22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:341:GLN:HG2	1:R:402:MET:HG2	1.82	0.61
1:V:297:GLN:HA	1:V:300:ILE:HG22	1.82	0.61
1:W:297:GLN:HA	1:W:300:ILE:HG22	1.82	0.61
1:a:297:GLN:HA	1:a:300:ILE:HG22	1.82	0.61
1:a:698:ILE:O	1:3:701:THR:OG1	2.18	0.61
1:g:323:VAL:HG21	1:1:656:ASN:HD22	1.65	0.61
1:g:361:CYS:SG	1:g:362:LEU:N	2.72	0.61
1:g:523:MET:HG3	1:g:524:ALA:HB2	1.82	0.61
1:i:523:MET:HG3	1:i:524:ALA:HB2	1.82	0.61
1:j:656:ASN:HD22	1:l:323:VAL:HG21	1.64	0.61
1:k:356:SER:HB2	1:k:358:HIS:CE1	2.35	0.61
1:p:523:MET:HG3	1:p:524:ALA:HB2	1.82	0.61
1:q:297:GLN:HA	1:q:300:ILE:HG22	1.82	0.61
1:r:416:GLU:HG2	1:r:417:ASP:N	2.15	0.61
1:t:341:GLN:HG2	1:t:402:MET:HG2	1.82	0.61
1:t:518:ASN:HB2	1:v:474:SER:HA	1.81	0.61
1:t:523:MET:HG3	1:t:524:ALA:HB2	1.82	0.61
1:y:361:CYS:SG	1:y:362:LEU:N	2.72	0.61
1:4:416:GLU:HG2	1:4:417:ASP:N	2.15	0.61
1:8:342:VAL:HG13	1:8:343:PHE:H	1.64	0.61
1:B:342:VAL:HG13	1:B:343:PHE:H	1.64	0.61
1:C:523:MET:HG3	1:C:524:ALA:HB2	1.82	0.61
1:F:341:GLN:HG2	1:F:402:MET:HG2	1.82	0.61
1:F:470:ILE:O	1:F:472:ASP:N	2.29	0.61
1:I:356:SER:HB2	1:I:358:HIS:CE1	2.36	0.61
1:K:341:GLN:HG2	1:K:402:MET:HG2	1.82	0.61
1:K:523:MET:HG3	1:K:524:ALA:HB2	1.82	0.61
1:L:523:MET:HG3	1:L:524:ALA:HB2	1.82	0.61
1:N:356:SER:HB2	1:N:358:HIS:CE1	2.35	0.61
1:R:356:SER:HB2	1:R:358:HIS:CE1	2.36	0.61
1:T:656:ASN:HD22	1:i:323:VAL:HG21	1.65	0.61
1:V:356:SER:HB2	1:V:358:HIS:CE1	2.36	0.61
1:W:523:MET:HG3	1:W:524:ALA:HB2	1.82	0.61
1:Y:323:VAL:HG21	1:4:656:ASN:HD22	1.64	0.61
1:Y:710:VAL:HG23	1:Y:711:ASP:H	1.63	0.61
1:Z:297:GLN:HA	1:Z:300:ILE:HG22	1.82	0.61
1:Z:656:ASN:HD22	1:a:323:VAL:HG21	1.64	0.61
1:c:341:GLN:HG2	1:c:402:MET:HG2	1.82	0.61
1:c:356:SER:HB2	1:c:358:HIS:CE1	2.36	0.61
1:c:523:MET:HG3	1:c:524:ALA:HB2	1.82	0.61
1:e:523:MET:HG3	1:e:524:ALA:HB2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:297:GLN:HA	1:f:300:ILE:HG22	1.82	0.61
1:h:356:SER:HB2	1:h:358:HIS:CE1	2.36	0.61
1:m:297:GLN:HA	1:m:300:ILE:HG22	1.82	0.61
1:m:523:MET:HG3	1:m:524:ALA:HB2	1.82	0.61
1:p:356:SER:HB2	1:p:358:HIS:CE1	2.35	0.61
1:q:625:ASP:OD1	1:q:625:ASP:N	2.23	0.61
1:t:356:SER:HB2	1:t:358:HIS:CE1	2.36	0.61
1:t:458:SER:OG	1:u:492:SER:O	2.16	0.61
1:u:361:CYS:SG	1:u:362:LEU:N	2.72	0.61
1:w:523:MET:HG3	1:w:524:ALA:HB2	1.82	0.61
1:y:297:GLN:HA	1:y:300:ILE:HG22	1.82	0.61
1:y:356:SER:HB2	1:y:358:HIS:CE1	2.36	0.61
1:5:458:SER:OG	1:6:492:SER:O	2.16	0.61
1:8:361:CYS:SG	1:8:362:LEU:N	2.72	0.61
1:E:297:GLN:HA	1:E:300:ILE:HG22	1.82	0.61
1:G:356:SER:HB2	1:G:358:HIS:CE1	2.36	0.61
1:R:523:MET:HG3	1:R:524:ALA:HB2	1.82	0.61
1:T:297:GLN:HA	1:T:300:ILE:HG22	1.82	0.61
1:T:518:ASN:HB2	1:l:474:SER:HA	1.81	0.61
1:U:523:MET:HG3	1:U:524:ALA:HB2	1.82	0.61
1:X:342:VAL:HG13	1:X:343:PHE:H	1.64	0.61
1:Z:523:MET:HG3	1:Z:524:ALA:HB2	1.82	0.61
1:g:342:VAL:HG13	1:g:343:PHE:H	1.65	0.61
1:q:523:MET:HG3	1:q:524:ALA:HB2	1.82	0.61
1:r:474:SER:HA	1:s:518:ASN:HB2	1.81	0.61
1:v:656:ASN:HD22	1:1:323:VAL:HG21	1.65	0.61
1:y:342:VAL:HG13	1:y:343:PHE:H	1.64	0.61
1:2:323:VAL:HG21	1:3:656:ASN:HD22	1.65	0.61
1:A:487:ARG:O	1:I:584:GLN:NE2	2.19	0.61
1:C:416:GLU:HG2	1:C:417:ASP:N	2.15	0.61
1:D:356:SER:HB2	1:D:358:HIS:CE1	2.36	0.61
1:H:492:SER:O	1:Y:458:SER:OG	2.17	0.61
1:K:250:PRO:HB2	1:L:659:THR:HG22	1.82	0.61
1:K:323:VAL:HG21	1:L:656:ASN:HD22	1.64	0.61
1:K:356:SER:HB2	1:K:358:HIS:CE1	2.35	0.61
1:P:341:GLN:HG2	1:P:402:MET:HG2	1.82	0.61
1:P:342:VAL:HG13	1:P:343:PHE:H	1.65	0.61
1:S:297:GLN:HA	1:S:300:ILE:HG22	1.82	0.61
1:S:458:SER:OG	1:U:492:SER:O	2.16	0.61
1:S:523:MET:HG3	1:S:524:ALA:HB2	1.82	0.61
1:S:701:THR:OG1	1:T:698:ILE:O	2.17	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:659:THR:HG22	1:i:250:PRO:HB2	1.82	0.61
1:U:341:GLN:HG2	1:U:402:MET:HG2	1.82	0.61
1:a:356:SER:HB2	1:a:358:HIS:CE1	2.36	0.61
1:b:356:SER:HB2	1:b:358:HIS:CE1	2.35	0.61
1:m:474:SER:HA	1:n:518:ASN:HB2	1.81	0.61
1:u:523:MET:HG3	1:u:524:ALA:HB2	1.82	0.61
1:v:341:GLN:HG2	1:v:402:MET:HG2	1.82	0.61
1:v:701:THR:OG1	1:y:698:ILE:O	2.18	0.61
1:1:297:GLN:HA	1:1:300:ILE:HG22	1.82	0.61
1:1:523:MET:HG3	1:1:524:ALA:HB2	1.82	0.61
1:5:356:SER:HB2	1:5:358:HIS:CE1	2.35	0.61
1:5:416:GLU:HG2	1:5:417:ASP:N	2.15	0.61
1:5:470:ILE:O	1:5:472:ASP:N	2.29	0.61
1:6:523:MET:HG3	1:6:524:ALA:HB2	1.82	0.61
1:7:483:TYR:O	1:7:484:ARG:HG2	1.98	0.61
1:8:341:GLN:HG2	1:8:402:MET:HG2	1.82	0.61
1:A:297:GLN:HA	1:A:300:ILE:HG22	1.82	0.61
1:B:356:SER:HB2	1:B:358:HIS:CE1	2.36	0.61
1:C:659:THR:HG22	1:D:250:PRO:HB2	1.82	0.61
1:D:523:MET:HG3	1:D:524:ALA:HB2	1.82	0.61
1:E:483:TYR:O	1:E:484:ARG:HG2	1.98	0.61
1:F:356:SER:HB2	1:F:358:HIS:CE1	2.36	0.61
1:F:523:MET:HG3	1:F:524:ALA:HB2	1.82	0.61
1:J:250:PRO:HB2	1:a:659:THR:HG22	1.83	0.61
1:J:341:GLN:HG2	1:J:402:MET:HG2	1.82	0.61
1:M:341:GLN:HG2	1:M:402:MET:HG2	1.82	0.61
1:O:250:PRO:HB2	1:P:659:THR:HG22	1.83	0.61
1:O:474:SER:HA	1:m:518:ASN:HB2	1.81	0.61
1:U:342:VAL:HG13	1:U:343:PHE:H	1.64	0.61
1:X:492:SER:O	1:e:458:SER:OG	2.16	0.61
1:Z:356:SER:HB2	1:Z:358:HIS:CE1	2.35	0.61
1:Z:518:ASN:HB2	1:3:474:SER:HA	1.80	0.61
1:h:701:THR:OG1	1:k:698:ILE:O	2.18	0.61
1:i:342:VAL:HG13	1:i:343:PHE:H	1.65	0.61
1:l:356:SER:HB2	1:l:358:HIS:CE1	2.36	0.61
1:r:297:GLN:HA	1:r:300:ILE:HG22	1.82	0.61
1:u:297:GLN:HA	1:u:300:ILE:HG22	1.82	0.61
1:x:342:VAL:HG13	1:x:343:PHE:H	1.65	0.61
1:z:356:SER:HB2	1:z:358:HIS:CE1	2.36	0.61
1:6:341:GLN:HG2	1:6:402:MET:HG2	1.82	0.61
1:6:356:SER:HB2	1:6:358:HIS:CE1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:470:ILE:O	1:6:472:ASP:N	2.29	0.61
1:C:656:ASN:HD22	1:D:323:VAL:HG21	1.64	0.61
1:G:250:PRO:HB2	1:W:659:THR:HG22	1.83	0.61
1:H:342:VAL:HG13	1:H:343:PHE:H	1.64	0.61
1:H:523:MET:HG3	1:H:524:ALA:HB2	1.82	0.61
1:J:523:MET:HG3	1:J:524:ALA:HB2	1.82	0.61
1:L:416:GLU:HG2	1:L:417:ASP:N	2.15	0.61
1:M:250:PRO:HB2	1:N:659:THR:HG22	1.83	0.61
1:N:470:ILE:O	1:N:472:ASP:N	2.29	0.61
1:Q:356:SER:HB2	1:Q:358:HIS:CE1	2.36	0.61
1:Q:416:GLU:HG2	1:Q:417:ASP:N	2.15	0.61
1:T:416:GLU:HG2	1:T:417:ASP:N	2.15	0.61
1:T:523:MET:HG3	1:T:524:ALA:HB2	1.82	0.61
1:U:470:ILE:C	1:U:472:ASP:H	2.09	0.61
1:U:698:ILE:O	1:V:701:THR:OG1	2.18	0.61
1:V:342:VAL:HG13	1:V:343:PHE:H	1.65	0.61
1:W:342:VAL:HG13	1:W:343:PHE:H	1.64	0.61
1:Y:297:GLN:HA	1:Y:300:ILE:HG22	1.82	0.61
1:Y:523:MET:HG3	1:Y:524:ALA:HB2	1.82	0.61
1:a:470:ILE:O	1:a:472:ASP:N	2.29	0.61
1:g:341:GLN:HG2	1:g:402:MET:HG2	1.82	0.61
1:j:297:GLN:HA	1:j:300:ILE:HG22	1.82	0.61
1:p:341:GLN:HG2	1:p:402:MET:HG2	1.82	0.61
1:p:416:GLU:HG2	1:p:417:ASP:N	2.15	0.61
1:r:523:MET:HG3	1:r:524:ALA:HB2	1.82	0.61
1:s:342:VAL:HG13	1:s:343:PHE:H	1.65	0.61
1:s:523:MET:HG3	1:s:524:ALA:HB2	1.82	0.61
1:u:458:SER:OG	1:v:492:SER:O	2.16	0.61
1:v:470:ILE:C	1:v:472:ASP:H	2.09	0.61
1:v:523:MET:HG3	1:v:524:ALA:HB2	1.82	0.61
1:w:356:SER:HB2	1:w:358:HIS:CE1	2.35	0.61
1:3:297:GLN:HA	1:3:300:ILE:HG22	1.82	0.61
1:A:342:VAL:HG13	1:A:343:PHE:H	1.65	0.61
1:B:297:GLN:HA	1:B:300:ILE:HG22	1.82	0.61
1:B:341:GLN:HG2	1:B:402:MET:HG2	1.82	0.61
1:C:470:ILE:C	1:C:472:ASP:H	2.09	0.61
1:G:323:VAL:HG21	1:W:656:ASN:HD22	1.65	0.61
1:G:341:GLN:HG2	1:G:402:MET:HG2	1.82	0.61
1:G:416:GLU:HG2	1:G:417:ASP:N	2.15	0.61
1:H:288:HIS:NE2	1:H:614:GLN:HB3	2.16	0.61
1:H:659:THR:HG22	1:Z:250:PRO:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:250:PRO:HB2	1:b:659:THR:HG22	1.83	0.61
1:M:523:MET:HG3	1:M:524:ALA:HB2	1.82	0.61
1:O:297:GLN:HA	1:O:300:ILE:HG22	1.82	0.61
1:P:356:SER:HB2	1:P:358:HIS:CE1	2.36	0.61
1:P:361:CYS:SG	1:P:362:LEU:N	2.72	0.61
1:Q:297:GLN:HA	1:Q:300:ILE:HG22	1.82	0.61
1:R:288:HIS:NE2	1:R:614:GLN:HB3	2.16	0.61
1:U:701:THR:OG1	1:V:698:ILE:O	2.19	0.61
1:b:297:GLN:HA	1:b:300:ILE:HG22	1.82	0.61
1:b:341:GLN:HG2	1:b:402:MET:HG2	1.82	0.61
1:f:341:GLN:HG2	1:f:402:MET:HG2	1.82	0.61
1:f:470:ILE:C	1:f:472:ASP:H	2.09	0.61
1:f:656:ASN:HD22	1:z:323:VAL:HG21	1.65	0.61
1:h:523:MET:HG3	1:h:524:ALA:HB2	1.82	0.61
1:i:341:GLN:HG2	1:i:402:MET:HG2	1.82	0.61
1:j:341:GLN:HG2	1:j:402:MET:HG2	1.82	0.61
1:j:470:ILE:C	1:j:472:ASP:H	2.09	0.61
1:l:523:MET:HG3	1:l:524:ALA:HB2	1.82	0.61
1:m:356:SER:HB2	1:m:358:HIS:CE1	2.36	0.61
1:o:470:ILE:C	1:o:472:ASP:H	2.09	0.61
1:q:342:VAL:HG13	1:q:343:PHE:H	1.64	0.61
1:q:356:SER:HB2	1:q:358:HIS:CE1	2.35	0.61
1:s:288:HIS:NE2	1:s:614:GLN:HB3	2.16	0.61
1:t:288:HIS:NE2	1:t:614:GLN:HB3	2.16	0.61
1:t:361:CYS:SG	1:t:362:LEU:N	2.72	0.61
1:z:288:HIS:NE2	1:z:614:GLN:HB3	2.16	0.61
1:1:416:GLU:HG2	1:1:417:ASP:N	2.15	0.61
1:3:250:PRO:HB2	1:8:659:THR:HG22	1.83	0.61
1:7:356:SER:HB2	1:7:358:HIS:CE1	2.36	0.61
1:8:356:SER:HB2	1:8:358:HIS:CE1	2.35	0.61
1:A:323:VAL:HG21	1:E:656:ASN:HD22	1.65	0.61
1:A:470:ILE:C	1:A:472:ASP:H	2.09	0.61
1:E:356:SER:HB2	1:E:358:HIS:CE1	2.36	0.61
1:F:416:GLU:HG2	1:F:417:ASP:N	2.15	0.61
1:F:470:ILE:C	1:F:472:ASP:H	2.09	0.61
1:H:356:SER:HB2	1:H:358:HIS:CE1	2.36	0.61
1:I:470:ILE:C	1:I:472:ASP:H	2.09	0.61
1:J:458:SER:OG	1:L:492:SER:O	2.16	0.61
1:L:470:ILE:C	1:L:472:ASP:H	2.09	0.61
1:O:656:ASN:HD22	1:d:323:VAL:HG21	1.65	0.61
1:R:361:CYS:SG	1:R:362:LEU:N	2.72	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:458:SER:OG	1:o:492:SER:O	2.17	0.61
1:c:470:ILE:C	1:c:472:ASP:H	2.09	0.61
1:d:448:THR:HG23	1:l:499:GLU:HA	1.83	0.61
1:e:356:SER:HB2	1:e:358:HIS:CE1	2.36	0.61
1:g:250:PRO:HB2	1:1:659:THR:HG22	1.83	0.61
1:h:698:ILE:O	1:k:701:THR:OG1	2.19	0.61
1:j:250:PRO:HB2	1:x:659:THR:HG22	1.82	0.61
1:l:288:HIS:NE2	1:l:614:GLN:HB3	2.16	0.61
1:n:656:ASN:HD22	1:r:323:VAL:HG21	1.65	0.61
1:o:297:GLN:HA	1:o:300:ILE:HG22	1.82	0.61
1:o:342:VAL:HG13	1:o:343:PHE:H	1.64	0.61
1:q:499:GLU:HA	1:s:448:THR:HG23	1.83	0.61
1:r:656:ASN:HD22	1:x:323:VAL:HG21	1.64	0.61
1:s:341:GLN:HG2	1:s:402:MET:HG2	1.82	0.61
1:s:356:SER:HB2	1:s:358:HIS:CE1	2.36	0.61
1:w:470:ILE:C	1:w:472:ASP:H	2.09	0.61
1:z:523:MET:HG3	1:z:524:ALA:HB2	1.82	0.61
1:1:448:THR:HG23	1:2:499:GLU:HA	1.83	0.61
1:4:356:SER:HB2	1:4:358:HIS:CE1	2.36	0.61
1:6:470:ILE:C	1:6:472:ASP:H	2.09	0.61
1:A:562:GLU:OE2	1:A:612:TYR:OH	2.12	0.61
1:B:288:HIS:NE2	1:B:614:GLN:HB3	2.16	0.61
1:B:659:THR:HG22	1:C:250:PRO:HB2	1.83	0.61
1:F:250:PRO:HB2	1:G:659:THR:HG22	1.82	0.61
1:F:323:VAL:HG21	1:G:656:ASN:HD22	1.65	0.61
1:F:492:SER:O	1:Q:458:SER:OG	2.17	0.61
1:G:429:SER:OG	1:G:431:ASP:OD1	2.18	0.61
1:H:323:VAL:HG21	1:I:656:ASN:HD22	1.66	0.61
1:H:341:GLN:HG2	1:H:402:MET:HG2	1.82	0.61
1:L:356:SER:HB2	1:L:358:HIS:CE1	2.36	0.61
1:M:356:SER:HB2	1:M:358:HIS:CE1	2.35	0.61
1:R:297:GLN:HA	1:R:300:ILE:HG22	1.82	0.61
1:U:297:GLN:HA	1:U:300:ILE:HG22	1.82	0.61
1:W:356:SER:HB2	1:W:358:HIS:CE1	2.35	0.61
1:X:288:HIS:NE2	1:X:614:GLN:HB3	2.16	0.61
1:Y:356:SER:HB2	1:Y:358:HIS:CE1	2.36	0.61
1:Y:470:ILE:C	1:Y:472:ASP:H	2.09	0.61
1:g:356:SER:HB2	1:g:358:HIS:CE1	2.36	0.61
1:h:341:GLN:HG2	1:h:402:MET:HG2	1.82	0.61
1:h:470:ILE:C	1:h:472:ASP:H	2.09	0.61
1:i:356:SER:HB2	1:i:358:HIS:CE1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:341:GLN:HG2	1:k:402:MET:HG2	1.82	0.61
1:k:523:MET:HG3	1:k:524:ALA:HB2	1.82	0.61
1:k:625:ASP:OD1	1:k:625:ASP:N	2.23	0.61
1:n:356:SER:HB2	1:n:358:HIS:CE1	2.36	0.61
1:n:659:THR:HG22	1:r:250:PRO:HB2	1.82	0.61
1:o:562:GLU:OE2	1:o:612:TYR:OH	2.12	0.61
1:p:429:SER:OG	1:p:431:ASP:OD1	2.18	0.61
1:r:356:SER:HB2	1:r:358:HIS:CE1	2.35	0.61
1:r:458:SER:OG	1:s:492:SER:O	2.17	0.61
1:t:297:GLN:HA	1:t:300:ILE:HG22	1.82	0.61
1:t:326:ASN:O	1:t:329:THR:OG1	2.19	0.61
1:v:342:VAL:HG13	1:v:343:PHE:H	1.64	0.61
1:v:698:ILE:O	1:y:701:THR:OG1	2.19	0.61
1:w:416:GLU:HG2	1:w:417:ASP:N	2.15	0.61
1:4:625:ASP:OD1	1:4:625:ASP:N	2.23	0.61
1:B:492:SER:O	1:L:458:SER:OG	2.16	0.61
1:D:659:THR:HG22	1:E:250:PRO:HB2	1.83	0.61
1:J:356:SER:HB2	1:J:358:HIS:CE1	2.36	0.61
1:O:341:GLN:HG2	1:O:402:MET:HG2	1.82	0.61
1:T:356:SER:HB2	1:T:358:HIS:CE1	2.36	0.61
1:T:448:THR:HG23	1:d:499:GLU:HA	1.83	0.61
1:U:288:HIS:NE2	1:U:614:GLN:HB3	2.16	0.61
1:W:288:HIS:NE2	1:W:614:GLN:HB3	2.16	0.61
1:b:288:HIS:NE2	1:b:614:GLN:HB3	2.16	0.61
1:c:342:VAL:HG13	1:c:343:PHE:H	1.65	0.61
1:d:356:SER:HB2	1:d:358:HIS:CE1	2.35	0.61
1:d:429:SER:OG	1:d:431:ASP:OD1	2.18	0.61
1:e:416:GLU:HG2	1:e:417:ASP:N	2.15	0.61
1:e:470:ILE:C	1:e:472:ASP:H	2.09	0.61
1:i:288:HIS:NE2	1:i:614:GLN:HB3	2.16	0.61
1:l:429:SER:OG	1:l:431:ASP:OD1	2.18	0.61
1:o:323:VAL:HG21	1:7:656:ASN:HD22	1.65	0.61
1:r:470:ILE:C	1:r:472:ASP:H	2.09	0.61
1:u:323:VAL:HG21	1:2:656:ASN:HD22	1.65	0.61
1:v:288:HIS:NE2	1:v:614:GLN:HB3	2.16	0.61
1:v:297:GLN:HA	1:v:300:ILE:HG22	1.82	0.61
1:v:659:THR:HG22	1:1:250:PRO:HB2	1.82	0.61
1:w:288:HIS:NE2	1:w:614:GLN:HB3	2.16	0.61
1:x:288:HIS:NE2	1:x:614:GLN:HB3	2.16	0.61
1:1:356:SER:HB2	1:1:358:HIS:CE1	2.35	0.61
1:2:288:HIS:NE2	1:2:614:GLN:HB3	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:429:SER:OG	1:2:431:ASP:OD1	2.18	0.61
1:3:341:GLN:HG2	1:3:402:MET:HG2	1.82	0.61
1:5:297:GLN:HA	1:5:300:ILE:HG22	1.82	0.61
1:6:416:GLU:HG2	1:6:417:ASP:N	2.15	0.61
1:8:416:GLU:HG2	1:8:417:ASP:N	2.15	0.61
1:A:341:GLN:HG2	1:A:402:MET:HG2	1.82	0.60
1:A:448:THR:HG23	1:G:499:GLU:HA	1.83	0.60
1:C:458:SER:OG	1:b:492:SER:O	2.16	0.60
1:E:325:GLN:HE22	1:E:330:THR:HG22	1.66	0.60
1:F:659:THR:HG22	1:R:250:PRO:HB2	1.83	0.60
1:G:470:ILE:C	1:G:472:ASP:H	2.09	0.60
1:I:342:VAL:HG13	1:I:343:PHE:H	1.65	0.60
1:J:470:ILE:O	1:J:472:ASP:N	2.29	0.60
1:K:659:THR:HG22	1:7:250:PRO:HB2	1.83	0.60
1:N:250:PRO:HB2	1:m:659:THR:HG22	1.82	0.60
1:P:416:GLU:HG2	1:P:417:ASP:N	2.15	0.60
1:X:250:PRO:HB2	1:Y:659:THR:HG22	1.82	0.60
1:X:297:GLN:HA	1:X:300:ILE:HG22	1.82	0.60
1:X:323:VAL:HG21	1:Y:656:ASN:HD22	1.64	0.60
1:X:356:SER:HB2	1:X:358:HIS:CE1	2.35	0.60
1:Z:288:HIS:NE2	1:Z:614:GLN:HB3	2.16	0.60
1:b:470:ILE:C	1:b:472:ASP:H	2.09	0.60
1:d:288:HIS:NE2	1:d:614:GLN:HB3	2.16	0.60
1:e:288:HIS:NE2	1:e:614:GLN:HB3	2.16	0.60
1:g:288:HIS:NE2	1:g:614:GLN:HB3	2.16	0.60
1:h:625:ASP:OD1	1:h:625:ASP:N	2.23	0.60
1:j:659:THR:HG22	1:l:250:PRO:HB2	1.83	0.60
1:k:470:ILE:C	1:k:472:ASP:H	2.09	0.60
1:m:288:HIS:NE2	1:m:614:GLN:HB3	2.16	0.60
1:p:470:ILE:C	1:p:472:ASP:H	2.09	0.60
1:q:288:HIS:NE2	1:q:614:GLN:HB3	2.16	0.60
1:s:470:ILE:C	1:s:472:ASP:H	2.09	0.60
1:y:288:HIS:NE2	1:y:614:GLN:HB3	2.16	0.60
1:2:356:SER:HB2	1:2:358:HIS:CE1	2.36	0.60
1:A:288:HIS:NE2	1:A:614:GLN:HB3	2.16	0.60
1:A:356:SER:HB2	1:A:358:HIS:CE1	2.35	0.60
1:B:470:ILE:C	1:B:472:ASP:H	2.09	0.60
1:C:272:TYR:HB2	1:C:378:LEU:HD22	1.84	0.60
1:C:356:SER:HB2	1:C:358:HIS:CE1	2.36	0.60
1:E:470:ILE:C	1:E:472:ASP:H	2.09	0.60
1:E:523:MET:HG3	1:E:524:ALA:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:272:TYR:HB2	1:L:378:LEU:HD22	1.84	0.60
1:Q:523:MET:HG3	1:Q:524:ALA:HB2	1.82	0.60
1:S:288:HIS:NE2	1:S:614:GLN:HB3	2.16	0.60
1:S:470:ILE:O	1:S:472:ASP:N	2.29	0.60
1:U:356:SER:HB2	1:U:358:HIS:CE1	2.35	0.60
1:V:288:HIS:NE2	1:V:614:GLN:HB3	2.16	0.60
1:Y:625:ASP:OD1	1:Y:625:ASP:N	2.23	0.60
1:Z:659:THR:HG22	1:a:250:PRO:HB2	1.82	0.60
1:c:416:GLU:HG2	1:c:417:ASP:N	2.15	0.60
1:f:326:ASN:O	1:f:329:THR:OG1	2.19	0.60
1:h:342:VAL:HG13	1:h:343:PHE:H	1.65	0.60
1:n:625:ASP:OD1	1:n:625:ASP:N	2.23	0.60
1:o:288:HIS:NE2	1:o:614:GLN:HB3	2.16	0.60
1:o:341:GLN:HG2	1:o:402:MET:HG2	1.82	0.60
1:r:361:CYS:SG	1:r:362:LEU:N	2.72	0.60
1:r:659:THR:HG22	1:x:250:PRO:HB2	1.82	0.60
1:t:250:PRO:HB2	1:6:659:THR:HG22	1.83	0.60
1:u:272:TYR:HB2	1:u:378:LEU:HD22	1.84	0.60
1:u:470:ILE:O	1:u:472:ASP:N	2.29	0.60
1:x:356:SER:HB2	1:x:358:HIS:CE1	2.36	0.60
1:3:633:LEU:HB2	1:4:476:ASN:HA	1.83	0.60
1:5:325:GLN:HE22	1:5:330:THR:HG22	1.67	0.60
1:7:470:ILE:C	1:7:472:ASP:H	2.09	0.60
1:7:523:MET:HG3	1:7:524:ALA:HB2	1.82	0.60
1:E:416:GLU:HG2	1:E:417:ASP:N	2.15	0.60
1:G:288:HIS:NE2	1:G:614:GLN:HB3	2.16	0.60
1:H:470:ILE:C	1:H:472:ASP:H	2.09	0.60
1:K:470:ILE:C	1:K:472:ASP:H	2.09	0.60
1:M:297:GLN:HA	1:M:300:ILE:HG22	1.82	0.60
1:O:633:LEU:HB2	1:n:476:ASN:HA	1.83	0.60
1:P:523:MET:HG3	1:P:524:ALA:HB2	1.82	0.60
1:Q:325:GLN:HE22	1:Q:330:THR:HG22	1.67	0.60
1:S:272:TYR:HB2	1:S:378:LEU:HD22	1.84	0.60
1:W:325:GLN:HE22	1:W:330:THR:HG22	1.67	0.60
1:X:523:MET:HG3	1:X:524:ALA:HB2	1.82	0.60
1:Y:361:CYS:SG	1:Y:362:LEU:N	2.72	0.60
1:h:272:TYR:HB2	1:h:378:LEU:HD22	1.84	0.60
1:k:272:TYR:HB2	1:k:378:LEU:HD22	1.84	0.60
1:k:470:ILE:O	1:k:472:ASP:N	2.29	0.60
1:l:325:GLN:HE22	1:l:330:THR:HG22	1.67	0.60
1:o:250:PRO:HB2	1:7:659:THR:HG22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:288:HIS:NE2	1:p:614:GLN:HB3	2.16	0.60
1:q:325:GLN:HE22	1:q:330:THR:HG22	1.67	0.60
1:u:288:HIS:NE2	1:u:614:GLN:HB3	2.16	0.60
1:u:341:GLN:HG2	1:u:402:MET:HG2	1.82	0.60
1:u:356:SER:HB2	1:u:358:HIS:CE1	2.36	0.60
1:v:356:SER:HB2	1:v:358:HIS:CE1	2.35	0.60
1:y:341:GLN:HG2	1:y:402:MET:HG2	1.82	0.60
1:z:325:GLN:HE22	1:z:330:THR:HG22	1.67	0.60
1:z:429:SER:OG	1:z:431:ASP:OD1	2.18	0.60
1:5:523:MET:HG3	1:5:524:ALA:HB2	1.82	0.60
1:7:325:GLN:HE22	1:7:330:THR:HG22	1.67	0.60
1:8:523:MET:HG3	1:8:524:ALA:HB2	1.82	0.60
1:C:297:GLN:HA	1:C:300:ILE:HG22	1.82	0.60
1:D:470:ILE:C	1:D:472:ASP:H	2.09	0.60
1:I:297:GLN:HA	1:I:300:ILE:HG22	1.82	0.60
1:I:416:GLU:HG2	1:I:417:ASP:N	2.15	0.60
1:J:297:GLN:HA	1:J:300:ILE:HG22	1.82	0.60
1:K:361:CYS:SG	1:K:362:LEU:N	2.72	0.60
1:N:288:HIS:NE2	1:N:614:GLN:HB3	2.16	0.60
1:O:288:HIS:NE2	1:O:614:GLN:HB3	2.16	0.60
1:P:297:GLN:HA	1:P:300:ILE:HG22	1.82	0.60
1:R:470:ILE:C	1:R:472:ASP:H	2.09	0.60
1:S:341:GLN:HG2	1:S:402:MET:HG2	1.82	0.60
1:S:356:SER:HB2	1:S:358:HIS:CE1	2.36	0.60
1:V:272:TYR:HB2	1:V:378:LEU:HD22	1.84	0.60
1:V:341:GLN:HG2	1:V:402:MET:HG2	1.82	0.60
1:W:272:TYR:HB2	1:W:378:LEU:HD22	1.84	0.60
1:e:250:PRO:HB2	1:h:659:THR:HG22	1.82	0.60
1:e:272:TYR:HB2	1:e:378:LEU:HD22	1.83	0.60
1:f:356:SER:HB2	1:f:358:HIS:CE1	2.35	0.60
1:g:492:SER:O	1:h:458:SER:OG	2.16	0.60
1:h:250:PRO:HB2	1:i:659:THR:HG22	1.82	0.60
1:h:288:HIS:NE2	1:h:614:GLN:HB3	2.16	0.60
1:i:416:GLU:HG2	1:i:417:ASP:N	2.15	0.60
1:k:342:VAL:HG13	1:k:343:PHE:H	1.65	0.60
1:n:523:MET:HG3	1:n:524:ALA:HB2	1.82	0.60
1:o:356:SER:HB2	1:o:358:HIS:CE1	2.36	0.60
1:o:361:CYS:SG	1:o:362:LEU:N	2.72	0.60
1:r:448:THR:HG23	1:s:499:GLU:HA	1.84	0.60
1:t:470:ILE:C	1:t:472:ASP:H	2.09	0.60
1:t:659:THR:HG22	1:y:250:PRO:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:272:TYR:HB2	1:w:378:LEU:HD22	1.84	0.60
1:x:297:GLN:HA	1:x:300:ILE:HG22	1.82	0.60
1:4:325:GLN:HE22	1:4:330:THR:HG22	1.67	0.60
1:4:361:CYS:SG	1:4:362:LEU:N	2.72	0.60
1:4:523:MET:HG3	1:4:524:ALA:HB2	1.82	0.60
1:6:297:GLN:HA	1:6:300:ILE:HG22	1.82	0.60
1:7:272:TYR:HB2	1:7:378:LEU:HD22	1.84	0.60
1:8:325:GLN:HE22	1:8:330:THR:HG22	1.67	0.60
1:A:361:CYS:SG	1:A:362:LEU:N	2.72	0.60
1:A:523:MET:HG3	1:A:524:ALA:HB2	1.82	0.60
1:C:429:SER:OG	1:C:431:ASP:OD1	2.18	0.60
1:E:272:TYR:HB2	1:E:378:LEU:HD22	1.84	0.60
1:F:297:GLN:HA	1:F:300:ILE:HG22	1.82	0.60
1:J:288:HIS:NE2	1:J:614:GLN:HB3	2.16	0.60
1:J:416:GLU:HG2	1:J:417:ASP:N	2.15	0.60
1:L:297:GLN:HA	1:L:300:ILE:HG22	1.82	0.60
1:L:429:SER:OG	1:L:431:ASP:OD1	2.18	0.60
1:N:325:GLN:HE22	1:N:330:THR:HG22	1.67	0.60
1:O:342:VAL:HG13	1:O:343:PHE:H	1.65	0.60
1:R:659:THR:HG22	1:V:250:PRO:HB2	1.82	0.60
1:V:659:THR:HG22	1:W:250:PRO:HB2	1.82	0.60
1:W:341:GLN:HG2	1:W:402:MET:HG2	1.82	0.60
1:X:325:GLN:HE22	1:X:330:THR:HG22	1.67	0.60
1:X:659:THR:HG22	1:f:250:PRO:HB2	1.83	0.60
1:a:325:GLN:HE22	1:a:330:THR:HG22	1.67	0.60
1:a:523:MET:HG3	1:a:524:ALA:HB2	1.82	0.60
1:b:250:PRO:HB2	1:o:659:THR:HG22	1.82	0.60
1:c:297:GLN:HA	1:c:300:ILE:HG22	1.82	0.60
1:c:448:THR:HG23	1:o:499:GLU:HA	1.82	0.60
1:d:470:ILE:C	1:d:472:ASP:H	2.09	0.60
1:f:659:THR:HG22	1:z:250:PRO:HB2	1.84	0.60
1:k:288:HIS:NE2	1:k:614:GLN:HB3	2.16	0.60
1:o:272:TYR:HB2	1:o:378:LEU:HD22	1.83	0.60
1:q:272:TYR:HB2	1:q:378:LEU:HD22	1.84	0.60
1:u:250:PRO:HB2	1:2:659:THR:HG22	1.82	0.60
1:x:325:GLN:HE22	1:x:330:THR:HG22	1.67	0.60
1:y:272:TYR:HB2	1:y:378:LEU:HD22	1.84	0.60
1:y:470:ILE:C	1:y:472:ASP:H	2.09	0.60
1:3:288:HIS:NE2	1:3:614:GLN:HB3	2.16	0.60
1:A:250:PRO:HB2	1:E:659:THR:HG22	1.83	0.60
1:A:325:GLN:HE22	1:A:330:THR:HG22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:325:GLN:HE22	1:C:330:THR:HG22	1.67	0.60
1:H:325:GLN:HE22	1:H:330:THR:HG22	1.67	0.60
1:L:325:GLN:HE22	1:L:330:THR:HG22	1.67	0.60
1:M:325:GLN:HE22	1:M:330:THR:HG22	1.67	0.60
1:N:523:MET:HG3	1:N:524:ALA:HB2	1.82	0.60
1:O:659:THR:HG22	1:d:250:PRO:HB2	1.82	0.60
1:P:325:GLN:HE22	1:P:330:THR:HG22	1.67	0.60
1:T:458:SER:OG	1:d:492:SER:O	2.16	0.60
1:U:250:PRO:HB2	1:e:659:THR:HG22	1.83	0.60
1:U:325:GLN:HE22	1:U:330:THR:HG22	1.67	0.60
1:V:470:ILE:C	1:V:472:ASP:H	2.09	0.60
1:a:288:HIS:NE2	1:a:614:GLN:HB3	2.16	0.60
1:b:325:GLN:HE22	1:b:330:THR:HG22	1.67	0.60
1:d:458:SER:OG	1:l:492:SER:O	2.17	0.60
1:d:523:MET:HG3	1:d:524:ALA:HB2	1.82	0.60
1:h:470:ILE:O	1:h:472:ASP:N	2.29	0.60
1:j:356:SER:HB2	1:j:358:HIS:CE1	2.35	0.60
1:n:325:GLN:HE22	1:n:330:THR:HG22	1.67	0.60
1:n:470:ILE:O	1:n:472:ASP:N	2.29	0.60
1:o:325:GLN:HE22	1:o:330:THR:HG22	1.67	0.60
1:o:523:MET:HG3	1:o:524:ALA:HB2	1.82	0.60
1:q:250:PRO:HB2	1:y:659:THR:HG22	1.83	0.60
1:q:341:GLN:HG2	1:q:402:MET:HG2	1.82	0.60
1:s:272:TYR:HB2	1:s:378:LEU:HD22	1.84	0.60
1:s:325:GLN:HE22	1:s:330:THR:HG22	1.67	0.60
1:v:325:GLN:HE22	1:v:330:THR:HG22	1.67	0.60
1:2:341:GLN:HG2	1:2:402:MET:HG2	1.82	0.60
1:3:342:VAL:HG13	1:3:343:PHE:H	1.65	0.60
1:3:356:SER:HB2	1:3:358:HIS:CE1	2.35	0.60
1:4:470:ILE:O	1:4:472:ASP:N	2.29	0.60
1:7:416:GLU:HG2	1:7:417:ASP:N	2.15	0.60
1:A:272:TYR:HB2	1:A:378:LEU:HD22	1.84	0.60
1:B:325:GLN:HE22	1:B:330:THR:HG22	1.67	0.60
1:B:476:ASN:HA	1:J:633:LEU:HB2	1.83	0.60
1:D:361:CYS:SG	1:D:362:LEU:N	2.72	0.60
1:H:272:TYR:HB2	1:H:378:LEU:HD22	1.84	0.60
1:J:325:GLN:HE22	1:J:330:THR:HG22	1.67	0.60
1:J:476:ASN:HA	1:L:633:LEU:HB2	1.84	0.60
1:M:288:HIS:NE2	1:M:614:GLN:HB3	2.16	0.60
1:M:416:GLU:HG2	1:M:417:ASP:N	2.15	0.60
1:N:341:GLN:HG2	1:N:402:MET:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:562:GLU:OE2	1:N:612:TYR:OH	2.12	0.60
1:O:523:MET:HG3	1:O:524:ALA:HB2	1.82	0.60
1:P:470:ILE:C	1:P:472:ASP:H	2.09	0.60
1:P:562:GLU:OE2	1:P:612:TYR:OH	2.12	0.60
1:S:476:ASN:HA	1:U:633:LEU:HB2	1.84	0.60
1:T:476:ASN:HA	1:d:633:LEU:HB2	1.83	0.60
1:a:341:GLN:HG2	1:a:402:MET:HG2	1.82	0.60
1:d:341:GLN:HG2	1:d:402:MET:HG2	1.82	0.60
1:f:633:LEU:HB2	1:g:476:ASN:HA	1.83	0.60
1:g:416:GLU:HG2	1:g:417:ASP:N	2.15	0.60
1:i:492:SER:O	1:k:458:SER:OG	2.16	0.60
1:n:361:CYS:SG	1:n:362:LEU:N	2.72	0.60
1:q:476:ASN:HA	1:r:633:LEU:HB2	1.83	0.60
1:r:625:ASP:OD1	1:r:625:ASP:N	2.23	0.60
1:u:476:ASN:HA	1:v:633:LEU:HB2	1.84	0.60
1:w:325:GLN:HE22	1:w:330:THR:HG22	1.67	0.60
1:x:523:MET:HG3	1:x:524:ALA:HB2	1.82	0.60
1:2:470:ILE:C	1:2:472:ASP:H	2.09	0.60
1:3:523:MET:HG3	1:3:524:ALA:HB2	1.82	0.60
1:4:470:ILE:C	1:4:472:ASP:H	2.09	0.60
1:8:297:GLN:HA	1:8:300:ILE:HG22	1.82	0.60
1:8:470:ILE:C	1:8:472:ASP:H	2.09	0.60
1:8:562:GLU:OE2	1:8:612:TYR:OH	2.12	0.60
1:A:659:THR:HG22	1:B:250:PRO:HB2	1.82	0.60
1:C:341:GLN:HG2	1:C:402:MET:HG2	1.82	0.60
1:C:633:LEU:HB2	1:M:476:ASN:HA	1.84	0.60
1:H:499:GLU:HA	1:Y:448:THR:HG23	1.84	0.60
1:K:633:LEU:HB2	1:8:476:ASN:HA	1.83	0.60
1:L:341:GLN:HG2	1:L:402:MET:HG2	1.82	0.60
1:M:470:ILE:C	1:M:472:ASP:H	2.09	0.60
1:M:633:LEU:HB2	1:b:476:ASN:HA	1.83	0.60
1:N:470:ILE:C	1:N:472:ASP:H	2.09	0.60
1:O:356:SER:HB2	1:O:358:HIS:CE1	2.36	0.60
1:P:429:SER:OG	1:P:431:ASP:OD1	2.18	0.60
1:S:429:SER:OG	1:S:431:ASP:OD1	2.18	0.60
1:S:470:ILE:C	1:S:472:ASP:H	2.09	0.60
1:T:470:ILE:O	1:T:472:ASP:N	2.29	0.60
1:Y:272:TYR:HB2	1:Y:378:LEU:HD22	1.84	0.60
1:Z:341:GLN:HG2	1:Z:402:MET:HG2	1.82	0.60
1:Z:458:SER:OG	1:4:492:SER:O	2.16	0.60
1:e:325:GLN:HE22	1:e:330:THR:HG22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:659:THR:HG22	1:k:250:PRO:HB2	1.83	0.60
1:i:470:ILE:C	1:i:472:ASP:H	2.09	0.60
1:k:659:THR:HG22	1:w:250:PRO:HB2	1.82	0.60
1:m:341:GLN:HG2	1:m:402:MET:HG2	1.82	0.60
1:n:288:HIS:NE2	1:n:614:GLN:HB3	2.16	0.60
1:n:470:ILE:C	1:n:472:ASP:H	2.09	0.60
1:p:325:GLN:HE22	1:p:330:THR:HG22	1.67	0.60
1:v:250:PRO:HB2	1:w:659:THR:HG22	1.83	0.60
1:y:523:MET:HG3	1:y:524:ALA:HB2	1.82	0.60
1:2:523:MET:HG3	1:2:524:ALA:HB2	1.82	0.60
1:5:288:HIS:NE2	1:5:614:GLN:HB3	2.16	0.60
1:8:416:GLU:OE1	1:8:416:GLU:N	2.28	0.60
1:C:625:ASP:OD1	1:C:625:ASP:N	2.23	0.60
1:D:633:LEU:HB2	1:P:476:ASN:HA	1.83	0.60
1:G:325:GLN:HE22	1:G:330:THR:HG22	1.67	0.60
1:J:470:ILE:C	1:J:472:ASP:H	2.09	0.60
1:Q:288:HIS:NE2	1:Q:614:GLN:HB3	2.16	0.60
1:R:470:ILE:O	1:R:472:ASP:N	2.29	0.60
1:T:250:PRO:HB2	1:U:659:THR:HG22	1.83	0.60
1:T:288:HIS:NE2	1:T:614:GLN:HB3	2.16	0.60
1:a:470:ILE:C	1:a:472:ASP:H	2.09	0.60
1:c:659:THR:HG22	1:s:250:PRO:HB2	1.82	0.60
1:d:272:TYR:HB2	1:d:378:LEU:HD22	1.84	0.60
1:e:620:LYS:HD3	1:e:642:PRO:HD3	1.84	0.60
1:g:470:ILE:C	1:g:472:ASP:H	2.09	0.60
1:h:325:GLN:HE22	1:h:330:THR:HG22	1.67	0.60
1:l:659:THR:HG22	1:n:250:PRO:HB2	1.82	0.60
1:r:272:TYR:HB2	1:r:378:LEU:HD22	1.84	0.60
1:u:429:SER:OG	1:u:431:ASP:OD1	2.18	0.60
1:u:470:ILE:C	1:u:472:ASP:H	2.09	0.60
1:3:272:TYR:HB2	1:3:378:LEU:HD22	1.84	0.60
1:3:499:GLU:HA	1:4:448:THR:HG23	1.84	0.60
1:8:288:HIS:NE2	1:8:614:GLN:HB3	2.16	0.60
1:8:429:SER:OG	1:8:431:ASP:OD1	2.18	0.60
1:C:288:HIS:NE2	1:C:614:GLN:HB3	2.16	0.60
1:D:458:SER:OG	1:N:492:SER:O	2.16	0.60
1:D:476:ASN:HA	1:N:633:LEU:HB2	1.84	0.60
1:E:458:SER:OG	1:Q:492:SER:O	2.16	0.60
1:F:288:HIS:NE2	1:F:614:GLN:HB3	2.16	0.60
1:H:633:LEU:HB2	1:Y:476:ASN:HA	1.84	0.60
1:I:272:TYR:HB2	1:I:378:LEU:HD22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:291:PHE:O	1:K:292:SER:OG	2.09	0.60
1:K:476:ASN:HA	1:a:633:LEU:HB2	1.83	0.60
1:L:288:HIS:NE2	1:L:614:GLN:HB3	2.16	0.60
1:M:656:ASN:HD22	1:c:323:VAL:HG21	1.66	0.60
1:Q:620:LYS:HD3	1:Q:642:PRO:HD3	1.84	0.60
1:V:327:ASP:OD1	1:V:328:GLY:N	2.35	0.60
1:X:633:LEU:HB2	1:e:476:ASN:HA	1.83	0.60
1:Y:325:GLN:HE22	1:Y:330:THR:HG22	1.67	0.60
1:Z:291:PHE:O	1:Z:292:SER:OG	2.09	0.60
1:Z:470:ILE:C	1:Z:472:ASP:H	2.09	0.60
1:a:416:GLU:HG2	1:a:417:ASP:N	2.15	0.60
1:n:327:ASP:OD1	1:n:328:GLY:N	2.35	0.60
1:x:458:SER:OG	1:y:492:SER:O	2.15	0.60
1:1:288:HIS:NE2	1:1:614:GLN:HB3	2.16	0.60
1:1:327:ASP:OD1	1:1:328:GLY:N	2.35	0.60
1:1:470:ILE:O	1:1:472:ASP:N	2.29	0.60
1:2:272:TYR:HB2	1:2:378:LEU:HD22	1.84	0.60
1:3:325:GLN:HE22	1:3:330:THR:HG22	1.66	0.60
1:4:288:HIS:NE2	1:4:614:GLN:HB3	2.16	0.60
1:5:272:TYR:HB2	1:5:378:LEU:HD22	1.84	0.60
1:5:620:LYS:HD3	1:5:642:PRO:HD3	1.84	0.60
1:6:288:HIS:NE2	1:6:614:GLN:HB3	2.16	0.60
1:B:448:THR:HG23	1:J:499:GLU:HA	1.84	0.59
1:N:416:GLU:HG2	1:N:417:ASP:N	2.15	0.59
1:O:272:TYR:HB2	1:O:378:LEU:HD22	1.84	0.59
1:P:288:HIS:NE2	1:P:614:GLN:HB3	2.16	0.59
1:Q:272:TYR:HB2	1:Q:378:LEU:HD22	1.84	0.59
1:S:620:LYS:HD3	1:S:642:PRO:HD3	1.84	0.59
1:T:327:ASP:OD1	1:T:328:GLY:N	2.35	0.59
1:V:476:ASN:HA	1:e:633:LEU:HB2	1.84	0.59
1:V:523:MET:HG3	1:V:524:ALA:HB2	1.82	0.59
1:X:416:GLU:HG2	1:X:417:ASP:N	2.15	0.59
1:Y:250:PRO:HB2	1:4:659:THR:HG22	1.83	0.59
1:Z:448:THR:HG23	1:4:499:GLU:HA	1.84	0.59
1:a:272:TYR:HB2	1:a:378:LEU:HD22	1.84	0.59
1:h:327:ASP:OD1	1:h:328:GLY:N	2.35	0.59
1:k:325:GLN:HE22	1:k:330:THR:HG22	1.67	0.59
1:k:327:ASP:OD1	1:k:328:GLY:N	2.35	0.59
1:o:470:ILE:O	1:o:472:ASP:N	2.29	0.59
1:r:476:ASN:HA	1:s:633:LEU:HB2	1.84	0.59
1:u:416:GLU:HG2	1:u:417:ASP:N	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:476:ASN:HA	1:x:633:LEU:HB2	1.84	0.59
1:w:620:LYS:HD3	1:w:642:PRO:HD3	1.84	0.59
1:w:633:LEU:HB2	1:y:476:ASN:HA	1.84	0.59
1:y:327:ASP:OD1	1:y:328:GLY:N	2.35	0.59
1:B:523:MET:HG3	1:B:524:ALA:HB2	1.82	0.59
1:C:701:THR:OG1	1:L:698:ILE:O	2.18	0.59
1:D:288:HIS:NE2	1:D:614:GLN:HB3	2.16	0.59
1:D:470:ILE:O	1:D:472:ASP:N	2.29	0.59
1:G:257:TYR:OH	1:G:394:CYS:O	2.21	0.59
1:I:327:ASP:OD1	1:I:328:GLY:N	2.35	0.59
1:K:288:HIS:NE2	1:K:614:GLN:HB3	2.16	0.59
1:M:499:GLU:HA	1:b:448:THR:HG23	1.85	0.59
1:N:458:SER:OG	1:P:492:SER:O	2.16	0.59
1:P:416:GLU:OE1	1:P:416:GLU:N	2.28	0.59
1:Q:250:PRO:HB2	1:S:659:THR:HG22	1.83	0.59
1:U:291:PHE:O	1:U:292:SER:OG	2.09	0.59
1:Y:288:HIS:NE2	1:Y:614:GLN:HB3	2.16	0.59
1:a:458:SER:OG	1:8:492:SER:O	2.16	0.59
1:c:257:TYR:OH	1:c:394:CYS:O	2.21	0.59
1:c:272:TYR:HB2	1:c:378:LEU:HD22	1.84	0.59
1:c:327:ASP:OD1	1:c:328:GLY:N	2.35	0.59
1:c:476:ASN:HA	1:o:633:LEU:HB2	1.84	0.59
1:d:327:ASP:OD1	1:d:328:GLY:N	2.35	0.59
1:f:499:GLU:HA	1:g:448:THR:HG23	1.84	0.59
1:g:272:TYR:HB2	1:g:378:LEU:HD22	1.84	0.59
1:g:416:GLU:OE1	1:g:416:GLU:N	2.28	0.59
1:i:272:TYR:HB2	1:i:378:LEU:HD22	1.84	0.59
1:i:499:GLU:HA	1:k:448:THR:HG23	1.84	0.59
1:m:291:PHE:O	1:m:292:SER:OG	2.09	0.59
1:m:448:THR:HG23	1:n:499:GLU:HA	1.84	0.59
1:m:470:ILE:C	1:m:472:ASP:H	2.09	0.59
1:p:257:TYR:OH	1:p:394:CYS:O	2.21	0.59
1:u:620:LYS:HD3	1:u:642:PRO:HD3	1.84	0.59
1:v:291:PHE:O	1:v:292:SER:OG	2.09	0.59
1:w:458:SER:OG	1:x:492:SER:O	2.16	0.59
1:z:327:ASP:OD1	1:z:328:GLY:N	2.35	0.59
1:z:620:LYS:HD3	1:z:642:PRO:HD3	1.84	0.59
1:2:327:ASP:OD1	1:2:328:GLY:N	2.35	0.59
1:4:327:ASP:OD1	1:4:328:GLY:N	2.35	0.59
1:7:288:HIS:NE2	1:7:614:GLN:HB3	2.16	0.59
1:E:257:TYR:OH	1:E:394:CYS:O	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:288:HIS:NE2	1:E:614:GLN:HB3	2.16	0.59
1:E:327:ASP:OD1	1:E:328:GLY:N	2.35	0.59
1:F:327:ASP:OD1	1:F:328:GLY:N	2.35	0.59
1:I:257:TYR:OH	1:I:394:CYS:O	2.21	0.59
1:I:288:HIS:NE2	1:I:614:GLN:HB3	2.16	0.59
1:L:625:ASP:OD1	1:L:625:ASP:N	2.23	0.59
1:N:272:TYR:HB2	1:N:378:LEU:HD22	1.84	0.59
1:P:326:ASN:O	1:P:329:THR:OG1	2.19	0.59
1:W:476:ASN:HA	1:Y:633:LEU:HB2	1.84	0.59
1:f:288:HIS:NE2	1:f:614:GLN:HB3	2.16	0.59
1:i:257:TYR:OH	1:i:394:CYS:O	2.21	0.59
1:i:476:ASN:HA	1:j:633:LEU:HB2	1.83	0.59
1:j:288:HIS:NE2	1:j:614:GLN:HB3	2.16	0.59
1:l:327:ASP:OD1	1:l:328:GLY:N	2.35	0.59
1:l:361:CYS:SG	1:l:362:LEU:N	2.72	0.59
1:o:327:ASP:OD1	1:o:328:GLY:N	2.35	0.59
1:r:325:GLN:HE22	1:r:330:THR:HG22	1.67	0.59
1:t:470:ILE:O	1:t:472:ASP:N	2.29	0.59
1:u:659:THR:HG22	1:5:250:PRO:HB2	1.83	0.59
1:x:327:ASP:OD1	1:x:328:GLY:N	2.35	0.59
1:1:272:TYR:HB2	1:1:378:LEU:HD22	1.84	0.59
1:2:701:THR:OG1	1:4:698:ILE:O	2.19	0.59
1:7:327:ASP:OD1	1:7:328:GLY:N	2.35	0.59
1:A:327:ASP:OD1	1:A:328:GLY:N	2.35	0.59
1:B:272:TYR:HB2	1:B:378:LEU:HD22	1.84	0.59
1:C:698:ILE:O	1:L:701:THR:OG1	2.18	0.59
1:D:448:THR:HG23	1:N:499:GLU:HA	1.85	0.59
1:E:620:LYS:HD3	1:E:642:PRO:HD3	1.84	0.59
1:F:325:GLN:HE22	1:F:330:THR:HG22	1.67	0.59
1:G:327:ASP:OD1	1:G:328:GLY:N	2.35	0.59
1:H:448:THR:HG23	1:W:499:GLU:HA	1.84	0.59
1:K:448:THR:HG23	1:a:499:GLU:HA	1.85	0.59
1:K:458:SER:OG	1:a:492:SER:O	2.16	0.59
1:O:325:GLN:HE22	1:O:330:THR:HG22	1.67	0.59
1:O:449:ASN:O	1:O:450:THR:OG1	2.20	0.59
1:O:458:SER:OG	1:m:492:SER:O	2.16	0.59
1:T:272:TYR:HB2	1:T:378:LEU:HD22	1.84	0.59
1:X:499:GLU:HA	1:e:448:THR:HG23	1.85	0.59
1:Z:492:SER:O	1:3:458:SER:OG	2.16	0.59
1:a:291:PHE:O	1:a:292:SER:OG	2.09	0.59
1:b:416:GLU:OE1	1:b:416:GLU:N	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:523:MET:HG3	1:b:524:ALA:HB2	1.82	0.59
1:c:288:HIS:NE2	1:c:614:GLN:HB3	2.16	0.59
1:d:476:ASN:HA	1:l:633:LEU:HB2	1.84	0.59
1:g:257:TYR:OH	1:g:394:CYS:O	2.21	0.59
1:g:499:GLU:HA	1:h:448:THR:HG23	1.85	0.59
1:i:327:ASP:OD1	1:i:328:GLY:N	2.35	0.59
1:l:620:LYS:HD3	1:l:642:PRO:HD3	1.84	0.59
1:n:257:TYR:OH	1:n:394:CYS:O	2.21	0.59
1:p:327:ASP:OD1	1:p:328:GLY:N	2.35	0.59
1:q:620:LYS:HD3	1:q:642:PRO:HD3	1.84	0.59
1:r:288:HIS:NE2	1:r:614:GLN:HB3	2.16	0.59
1:x:416:GLU:HG2	1:x:417:ASP:N	2.15	0.59
1:z:633:LEU:HB2	1:2:476:ASN:HA	1.84	0.59
1:3:257:TYR:OH	1:3:394:CYS:O	2.21	0.59
1:6:327:ASP:OD1	1:6:328:GLY:N	2.35	0.59
1:7:620:LYS:HD3	1:7:642:PRO:HD3	1.84	0.59
1:A:470:ILE:O	1:A:472:ASP:N	2.29	0.59
1:D:416:GLU:OE1	1:D:416:GLU:N	2.28	0.59
1:J:327:ASP:OD1	1:J:328:GLY:N	2.35	0.59
1:K:470:ILE:O	1:K:472:ASP:N	2.29	0.59
1:O:257:TYR:OH	1:O:394:CYS:O	2.21	0.59
1:R:476:ASN:HA	1:S:633:LEU:HB2	1.84	0.59
1:V:620:LYS:HD3	1:V:642:PRO:HD3	1.84	0.59
1:X:327:ASP:OD1	1:X:328:GLY:N	2.35	0.59
1:Z:327:ASP:OD1	1:Z:328:GLY:N	2.35	0.59
1:Z:476:ASN:HA	1:4:633:LEU:HB2	1.84	0.59
1:Z:620:LYS:HD3	1:Z:642:PRO:HD3	1.84	0.59
1:b:272:TYR:HB2	1:b:378:LEU:HD22	1.84	0.59
1:d:620:LYS:HD3	1:d:642:PRO:HD3	1.84	0.59
1:g:325:GLN:HE22	1:g:330:THR:HG22	1.67	0.59
1:g:327:ASP:OD1	1:g:328:GLY:N	2.35	0.59
1:i:325:GLN:HE22	1:i:330:THR:HG22	1.67	0.59
1:m:620:LYS:HD3	1:m:642:PRO:HD3	1.84	0.59
1:s:327:ASP:OD1	1:s:328:GLY:N	2.35	0.59
1:t:327:ASP:OD1	1:t:328:GLY:N	2.35	0.59
1:t:476:ASN:HA	1:u:633:LEU:HB2	1.84	0.59
1:3:449:ASN:O	1:3:450:THR:OG1	2.20	0.59
1:6:325:GLN:HE22	1:6:330:THR:HG22	1.67	0.59
1:7:257:TYR:OH	1:7:394:CYS:O	2.21	0.59
1:A:476:ASN:HA	1:G:633:LEU:HB2	1.84	0.59
1:C:327:ASP:OD1	1:C:328:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:620:LYS:HD3	1:C:642:PRO:HD3	1.84	0.59
1:D:291:PHE:O	1:D:292:SER:OG	2.09	0.59
1:F:499:GLU:HA	1:Q:448:THR:HG23	1.84	0.59
1:H:327:ASP:OD1	1:H:328:GLY:N	2.35	0.59
1:H:476:ASN:HA	1:W:633:LEU:HB2	1.84	0.59
1:J:272:TYR:HB2	1:J:378:LEU:HD22	1.84	0.59
1:L:327:ASP:OD1	1:L:328:GLY:N	2.35	0.59
1:M:327:ASP:OD1	1:M:328:GLY:N	2.35	0.59
1:M:659:THR:HG22	1:c:250:PRO:HB2	1.83	0.59
1:O:620:LYS:HD3	1:O:642:PRO:HD3	1.84	0.59
1:V:492:SER:O	1:X:458:SER:OG	2.16	0.59
1:W:620:LYS:HD3	1:W:642:PRO:HD3	1.84	0.59
1:f:257:TYR:OH	1:f:394:CYS:O	2.21	0.59
1:f:476:ASN:HA	1:h:633:LEU:HB2	1.84	0.59
1:g:633:LEU:HB2	1:h:476:ASN:HA	1.84	0.59
1:j:448:THR:HG23	1:k:499:GLU:HA	1.85	0.59
1:m:327:ASP:OD1	1:m:328:GLY:N	2.35	0.59
1:t:257:TYR:OH	1:t:394:CYS:O	2.21	0.59
1:v:327:ASP:OD1	1:v:328:GLY:N	2.35	0.59
1:x:476:ASN:HA	1:y:633:LEU:HB2	1.83	0.59
1:y:620:LYS:HD3	1:y:642:PRO:HD3	1.84	0.59
1:2:620:LYS:HD3	1:2:642:PRO:HD3	1.84	0.59
1:3:620:LYS:HD3	1:3:642:PRO:HD3	1.84	0.59
1:B:416:GLU:OE1	1:B:416:GLU:N	2.28	0.59
1:C:257:TYR:OH	1:C:394:CYS:O	2.21	0.59
1:L:620:LYS:HD3	1:L:642:PRO:HD3	1.84	0.59
1:M:272:TYR:HB2	1:M:378:LEU:HD22	1.84	0.59
1:N:327:ASP:OD1	1:N:328:GLY:N	2.35	0.59
1:N:476:ASN:HA	1:P:633:LEU:HB2	1.83	0.59
1:O:499:GLU:HA	1:n:448:THR:HG23	1.85	0.59
1:R:257:TYR:OH	1:R:394:CYS:O	2.21	0.59
1:R:272:TYR:HB2	1:R:378:LEU:HD22	1.84	0.59
1:R:327:ASP:OD1	1:R:328:GLY:N	2.35	0.59
1:S:250:PRO:HB2	1:d:659:THR:HG22	1.84	0.59
1:S:325:GLN:HE22	1:S:330:THR:HG22	1.67	0.59
1:S:448:THR:HG23	1:U:499:GLU:HA	1.85	0.59
1:T:325:GLN:HE22	1:T:330:THR:HG22	1.67	0.59
1:U:327:ASP:OD1	1:U:328:GLY:N	2.35	0.59
1:U:429:SER:OG	1:U:431:ASP:OD1	2.18	0.59
1:Z:325:GLN:HE22	1:Z:330:THR:HG22	1.67	0.59
1:a:327:ASP:OD1	1:a:328:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:416:GLU:HG2	1:d:417:ASP:N	2.15	0.59
1:f:448:THR:HG23	1:h:499:GLU:HA	1.85	0.59
1:j:325:GLN:HE22	1:j:330:THR:HG22	1.67	0.59
1:j:476:ASN:HA	1:k:633:LEU:HB2	1.84	0.59
1:l:470:ILE:C	1:l:472:ASP:H	2.09	0.59
1:m:257:TYR:OH	1:m:394:CYS:O	2.21	0.59
1:m:458:SER:OG	1:n:492:SER:O	2.17	0.59
1:u:325:GLN:HE22	1:u:330:THR:HG22	1.67	0.59
1:1:458:SER:OG	1:2:492:SER:O	2.17	0.59
1:1:476:ASN:HA	1:2:633:LEU:HB2	1.84	0.59
1:3:470:ILE:C	1:3:472:ASP:H	2.09	0.59
1:D:257:TYR:OH	1:D:394:CYS:O	2.21	0.59
1:E:476:ASN:HA	1:Q:633:LEU:HB2	1.84	0.59
1:F:620:LYS:HD3	1:F:642:PRO:HD3	1.84	0.59
1:I:323:VAL:HG21	1:J:656:ASN:HD22	1.67	0.59
1:I:325:GLN:HE22	1:I:330:THR:HG22	1.67	0.59
1:K:257:TYR:OH	1:K:394:CYS:O	2.21	0.59
1:K:325:GLN:HE22	1:K:330:THR:HG22	1.67	0.59
1:K:416:GLU:OE1	1:K:416:GLU:N	2.28	0.59
1:O:448:THR:HG23	1:m:499:GLU:HA	1.85	0.59
1:O:470:ILE:C	1:O:472:ASP:H	2.09	0.59
1:P:327:ASP:OD1	1:P:328:GLY:N	2.35	0.59
1:R:449:ASN:O	1:R:450:THR:OG1	2.20	0.59
1:X:620:LYS:HD3	1:X:642:PRO:HD3	1.84	0.59
1:Z:257:TYR:OH	1:Z:394:CYS:O	2.21	0.59
1:c:325:GLN:HE22	1:c:330:THR:HG22	1.67	0.59
1:f:325:GLN:HE22	1:f:330:THR:HG22	1.67	0.59
1:i:620:LYS:HD3	1:i:642:PRO:HD3	1.84	0.59
1:i:633:LEU:HB2	1:k:476:ASN:HA	1.84	0.59
1:j:281:TYR:HB3	1:j:647:LEU:HG	1.85	0.59
1:n:272:TYR:HB2	1:n:378:LEU:HD22	1.84	0.59
1:t:325:GLN:HE22	1:t:330:THR:HG22	1.67	0.59
1:t:698:ILE:O	1:5:701:THR:OG1	2.18	0.59
1:u:448:THR:HG23	1:v:499:GLU:HA	1.85	0.59
1:v:429:SER:OG	1:v:431:ASP:OD1	2.18	0.59
1:w:448:THR:HG23	1:x:499:GLU:HA	1.85	0.59
1:w:499:GLU:HA	1:y:448:THR:HG23	1.85	0.59
1:y:257:TYR:OH	1:y:394:CYS:O	2.21	0.59
1:z:470:ILE:C	1:z:472:ASP:H	2.09	0.59
1:2:416:GLU:HG2	1:2:417:ASP:N	2.15	0.59
1:6:272:TYR:HB2	1:6:378:LEU:HD22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:620:LYS:HD3	1:6:642:PRO:HD3	1.84	0.59
1:F:272:TYR:HB2	1:F:378:LEU:HD22	1.84	0.59
1:J:257:TYR:OH	1:J:394:CYS:O	2.21	0.59
1:J:448:THR:HG23	1:L:499:GLU:HA	1.85	0.59
1:K:281:TYR:HB3	1:K:647:LEU:HG	1.85	0.59
1:L:257:TYR:OH	1:L:394:CYS:O	2.21	0.59
1:M:257:TYR:OH	1:M:394:CYS:O	2.21	0.59
1:N:257:TYR:OH	1:N:394:CYS:O	2.21	0.59
1:O:416:GLU:OE1	1:O:416:GLU:N	2.27	0.59
1:T:470:ILE:C	1:T:472:ASP:H	2.09	0.59
1:U:257:TYR:OH	1:U:394:CYS:O	2.21	0.59
1:V:257:TYR:OH	1:V:394:CYS:O	2.21	0.59
1:V:633:LEU:HB2	1:X:476:ASN:HA	1.84	0.59
1:Y:281:TYR:HB3	1:Y:647:LEU:HG	1.85	0.59
1:Y:620:LYS:HD3	1:Y:642:PRO:HD3	1.84	0.59
1:Z:499:GLU:HA	1:3:448:THR:HG23	1.85	0.59
1:a:449:ASN:O	1:a:450:THR:OG1	2.20	0.59
1:a:476:ASN:HA	1:8:633:LEU:HB2	1.83	0.59
1:f:327:ASP:OD1	1:f:328:GLY:N	2.35	0.59
1:g:620:LYS:HD3	1:g:642:PRO:HD3	1.84	0.59
1:i:448:THR:HG23	1:j:499:GLU:HA	1.85	0.59
1:j:272:TYR:HB2	1:j:378:LEU:HD22	1.84	0.59
1:m:325:GLN:HE22	1:m:330:THR:HG22	1.67	0.59
1:m:416:GLU:HG2	1:m:417:ASP:N	2.15	0.59
1:p:416:GLU:OE1	1:p:416:GLU:N	2.28	0.59
1:r:281:TYR:HB3	1:r:647:LEU:HG	1.85	0.59
1:r:620:LYS:HD3	1:r:642:PRO:HD3	1.84	0.59
1:s:416:GLU:HG2	1:s:417:ASP:N	2.15	0.59
1:t:272:TYR:HB2	1:t:378:LEU:HD22	1.84	0.59
1:t:449:ASN:O	1:t:450:THR:OG1	2.20	0.59
1:u:257:TYR:OH	1:u:394:CYS:O	2.21	0.59
1:v:257:TYR:OH	1:v:394:CYS:O	2.21	0.59
1:x:281:TYR:HB3	1:x:647:LEU:HG	1.85	0.59
1:x:620:LYS:HD3	1:x:642:PRO:HD3	1.84	0.59
1:z:448:THR:HG23	1:1:499:GLU:HA	1.83	0.59
1:2:250:PRO:HB2	1:3:659:THR:HG22	1.83	0.59
1:5:448:THR:HG23	1:6:499:GLU:HA	1.85	0.59
1:6:476:ASN:HA	1:7:633:LEU:HB2	1.83	0.59
1:C:499:GLU:HA	1:M:448:THR:HG23	1.85	0.59
1:D:281:TYR:HB3	1:D:647:LEU:HG	1.85	0.59
1:D:325:GLN:HE22	1:D:330:THR:HG22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:416:GLU:HG2	1:H:417:ASP:N	2.15	0.59
1:H:620:LYS:HD3	1:H:642:PRO:HD3	1.84	0.59
1:J:620:LYS:HD3	1:J:642:PRO:HD3	1.84	0.59
1:J:701:THR:OG1	1:K:698:ILE:O	2.18	0.59
1:M:620:LYS:HD3	1:M:642:PRO:HD3	1.84	0.59
1:O:476:ASN:HA	1:m:633:LEU:HB2	1.84	0.59
1:Q:327:ASP:OD1	1:Q:328:GLY:N	2.35	0.59
1:R:325:GLN:HE22	1:R:330:THR:HG22	1.67	0.59
1:R:429:SER:OG	1:R:431:ASP:OD1	2.18	0.59
1:U:272:TYR:HB2	1:U:378:LEU:HD22	1.84	0.59
1:U:620:LYS:HD3	1:U:642:PRO:HD3	1.84	0.59
1:V:448:THR:HG23	1:e:499:GLU:HA	1.85	0.59
1:X:272:TYR:HB2	1:X:378:LEU:HD22	1.84	0.59
1:X:281:TYR:HB3	1:X:647:LEU:HG	1.85	0.59
1:Z:416:GLU:HG2	1:Z:417:ASP:N	2.15	0.59
1:Z:633:LEU:HB2	1:3:476:ASN:HA	1.84	0.59
1:a:257:TYR:OH	1:a:394:CYS:O	2.21	0.59
1:d:325:GLN:HE22	1:d:330:THR:HG22	1.66	0.59
1:e:257:TYR:OH	1:e:394:CYS:O	2.21	0.59
1:e:291:PHE:O	1:e:292:SER:OG	2.09	0.59
1:f:272:TYR:HB2	1:f:378:LEU:HD22	1.84	0.59
1:f:281:TYR:HB3	1:f:647:LEU:HG	1.85	0.59
1:j:327:ASP:OD1	1:j:328:GLY:N	2.35	0.59
1:p:272:TYR:HB2	1:p:378:LEU:HD22	1.84	0.59
1:r:327:ASP:OD1	1:r:328:GLY:N	2.35	0.59
1:w:257:TYR:OH	1:w:394:CYS:O	2.21	0.59
1:1:325:GLN:HE22	1:1:330:THR:HG22	1.67	0.59
1:1:470:ILE:C	1:1:472:ASP:H	2.09	0.59
1:4:272:TYR:HB2	1:4:378:LEU:HD22	1.84	0.59
1:4:281:TYR:HB3	1:4:647:LEU:HG	1.85	0.59
1:5:633:LEU:HB2	1:7:476:ASN:HA	1.84	0.59
1:8:327:ASP:OD1	1:8:328:GLY:N	2.35	0.59
1:A:416:GLU:OE1	1:A:416:GLU:N	2.28	0.58
1:C:448:THR:HG23	1:b:499:GLU:HA	1.84	0.58
1:E:499:GLU:HA	1:F:448:THR:HG23	1.85	0.58
1:E:633:LEU:HB2	1:F:476:ASN:HA	1.84	0.58
1:F:286:ARG:HH12	1:F:288:HIS:CE1	2.21	0.58
1:G:272:TYR:HB2	1:G:378:LEU:HD22	1.84	0.58
1:G:448:THR:HG23	1:I:499:GLU:HA	1.84	0.58
1:K:499:GLU:HA	1:8:448:THR:HG23	1.85	0.58
1:N:449:ASN:O	1:N:450:THR:OG1	2.20	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:701:THR:OG1	1:R:698:ILE:O	2.18	0.58
1:R:620:LYS:HD3	1:R:642:PRO:HD3	1.84	0.58
1:S:257:TYR:OH	1:S:394:CYS:O	2.21	0.58
1:S:327:ASP:OD1	1:S:328:GLY:N	2.35	0.58
1:T:429:SER:OG	1:T:431:ASP:OD1	2.18	0.58
1:T:633:LEU:HB2	1:l:476:ASN:HA	1.84	0.58
1:Y:327:ASP:OD1	1:Y:328:GLY:N	2.35	0.58
1:a:701:THR:OG1	1:3:698:ILE:O	2.19	0.58
1:b:257:TYR:OH	1:b:394:CYS:O	2.21	0.58
1:b:620:LYS:HD3	1:b:642:PRO:HD3	1.84	0.58
1:e:327:ASP:OD1	1:e:328:GLY:N	2.35	0.58
1:n:281:TYR:HB3	1:n:647:LEU:HG	1.85	0.58
1:o:281:TYR:HB3	1:o:647:LEU:HG	1.85	0.58
1:o:416:GLU:OE1	1:o:416:GLU:N	2.28	0.58
1:q:327:ASP:OD1	1:q:328:GLY:N	2.35	0.58
1:t:281:TYR:HB3	1:t:647:LEU:HG	1.85	0.58
1:t:492:SER:O	1:v:458:SER:OG	2.16	0.58
1:t:620:LYS:HD3	1:t:642:PRO:HD3	1.84	0.58
1:v:272:TYR:HB2	1:v:378:LEU:HD22	1.84	0.58
1:v:286:ARG:HH12	1:v:288:HIS:CE1	2.21	0.58
1:v:620:LYS:HD3	1:v:642:PRO:HD3	1.84	0.58
1:1:429:SER:OG	1:1:431:ASP:OD1	2.18	0.58
1:5:327:ASP:OD1	1:5:328:GLY:N	2.35	0.58
1:5:476:ASN:HA	1:6:633:LEU:HB2	1.84	0.58
1:A:281:TYR:HB3	1:A:647:LEU:HG	1.85	0.58
1:B:257:TYR:OH	1:B:394:CYS:O	2.21	0.58
1:B:499:GLU:HA	1:L:448:THR:HG23	1.84	0.58
1:B:620:LYS:HD3	1:B:642:PRO:HD3	1.84	0.58
1:D:499:GLU:HA	1:P:448:THR:HG23	1.85	0.58
1:D:620:LYS:HD3	1:D:642:PRO:HD3	1.84	0.58
1:F:633:LEU:HB2	1:Q:476:ASN:HA	1.84	0.58
1:G:416:GLU:OE1	1:G:416:GLU:N	2.28	0.58
1:K:272:TYR:HB2	1:K:378:LEU:HD22	1.84	0.58
1:K:327:ASP:OD1	1:K:328:GLY:N	2.35	0.58
1:K:620:LYS:HD3	1:K:642:PRO:HD3	1.84	0.58
1:N:448:THR:HG23	1:P:499:GLU:HA	1.85	0.58
1:N:701:THR:OG1	1:O:698:ILE:O	2.19	0.58
1:O:327:ASP:OD1	1:O:328:GLY:N	2.35	0.58
1:P:272:TYR:HB2	1:P:378:LEU:HD22	1.84	0.58
1:R:281:TYR:HB3	1:R:647:LEU:HG	1.85	0.58
1:R:499:GLU:HA	1:U:448:THR:HG23	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:286:ARG:HH12	1:U:288:HIS:CE1	2.21	0.58
1:b:286:ARG:HH12	1:b:288:HIS:CE1	2.21	0.58
1:b:327:ASP:OD1	1:b:328:GLY:N	2.35	0.58
1:e:429:SER:OG	1:e:431:ASP:OD1	2.18	0.58
1:m:476:ASN:HA	1:n:633:LEU:HB2	1.84	0.58
1:r:286:ARG:HH12	1:r:288:HIS:CE1	2.21	0.58
1:s:620:LYS:HD3	1:s:642:PRO:HD3	1.84	0.58
1:u:327:ASP:OD1	1:u:328:GLY:N	2.35	0.58
1:w:327:ASP:OD1	1:w:328:GLY:N	2.35	0.58
1:x:272:TYR:HB2	1:x:378:LEU:HD22	1.84	0.58
1:y:281:TYR:HB3	1:y:647:LEU:HG	1.85	0.58
1:2:325:GLN:HE22	1:2:330:THR:HG22	1.67	0.58
1:6:286:ARG:HH12	1:6:288:HIS:CE1	2.22	0.58
1:8:272:TYR:HB2	1:8:378:LEU:HD22	1.84	0.58
1:B:286:ARG:HH12	1:B:288:HIS:CE1	2.21	0.58
1:B:327:ASP:OD1	1:B:328:GLY:N	2.35	0.58
1:D:272:TYR:HB2	1:D:378:LEU:HD22	1.84	0.58
1:I:250:PRO:HB2	1:J:659:THR:HG22	1.84	0.58
1:I:286:ARG:HH12	1:I:288:HIS:CE1	2.21	0.58
1:P:281:TYR:HB3	1:P:647:LEU:HG	1.85	0.58
1:Q:361:CYS:SG	1:Q:362:LEU:N	2.72	0.58
1:R:286:ARG:HH12	1:R:288:HIS:CE1	2.21	0.58
1:T:286:ARG:HH12	1:T:288:HIS:CE1	2.21	0.58
1:V:286:ARG:HH12	1:V:288:HIS:CE1	2.21	0.58
1:W:327:ASP:OD1	1:W:328:GLY:N	2.35	0.58
1:Y:286:ARG:HH12	1:Y:288:HIS:CE1	2.21	0.58
1:a:448:THR:HG23	1:8:499:GLU:HA	1.85	0.58
1:c:286:ARG:HH12	1:c:288:HIS:CE1	2.21	0.58
1:e:281:TYR:HB3	1:e:647:LEU:HG	1.85	0.58
1:t:286:ARG:HH12	1:t:288:HIS:CE1	2.21	0.58
1:t:448:THR:HG23	1:u:499:GLU:HA	1.84	0.58
1:3:327:ASP:OD1	1:3:328:GLY:N	2.35	0.58
1:5:286:ARG:HH12	1:5:288:HIS:CE1	2.21	0.58
1:8:522:ALA:HB1	1:8:609:ARG:HB2	1.86	0.58
1:A:522:ALA:HB1	1:A:609:ARG:HB2	1.86	0.58
1:D:698:ILE:O	1:M:701:THR:OG1	2.18	0.58
1:H:281:TYR:HB3	1:H:647:LEU:HG	1.85	0.58
1:L:449:ASN:O	1:L:450:THR:OG1	2.20	0.58
1:P:522:ALA:HB1	1:P:609:ARG:HB2	1.86	0.58
1:Q:286:ARG:HH12	1:Q:288:HIS:CE1	2.21	0.58
1:Q:291:PHE:O	1:Q:292:SER:OG	2.09	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:620:LYS:HD3	1:T:642:PRO:HD3	1.84	0.58
1:V:281:TYR:HB3	1:V:647:LEU:HG	1.85	0.58
1:V:325:GLN:HE22	1:V:330:THR:HG22	1.67	0.58
1:V:449:ASN:O	1:V:450:THR:OG1	2.20	0.58
1:d:698:ILE:O	1:n:701:THR:OG1	2.16	0.58
1:f:522:ALA:HB1	1:f:609:ARG:HB2	1.86	0.58
1:j:522:ALA:HB1	1:j:609:ARG:HB2	1.86	0.58
1:n:522:ALA:HB1	1:n:609:ARG:HB2	1.86	0.58
1:o:286:ARG:HH12	1:o:288:HIS:CE1	2.21	0.58
1:o:522:ALA:HB1	1:o:609:ARG:HB2	1.86	0.58
1:t:499:GLU:HA	1:v:448:THR:HG23	1.85	0.58
1:w:281:TYR:HB3	1:w:647:LEU:HG	1.85	0.58
1:y:286:ARG:HH12	1:y:288:HIS:CE1	2.22	0.58
1:y:449:ASN:O	1:y:450:THR:OG1	2.20	0.58
1:1:286:ARG:HH12	1:1:288:HIS:CE1	2.21	0.58
1:3:416:GLU:OE1	1:3:416:GLU:N	2.28	0.58
1:8:281:TYR:HB3	1:8:647:LEU:HG	1.85	0.58
1:A:286:ARG:HH12	1:A:288:HIS:CE1	2.21	0.58
1:C:476:ASN:HA	1:b:633:LEU:HB2	1.84	0.58
1:D:327:ASP:OD1	1:D:328:GLY:N	2.35	0.58
1:G:281:TYR:HB3	1:G:647:LEU:HG	1.85	0.58
1:H:286:ARG:HH12	1:H:288:HIS:CE1	2.21	0.58
1:K:286:ARG:HH12	1:K:288:HIS:CE1	2.22	0.58
1:O:522:ALA:HB1	1:O:609:ARG:HB2	1.86	0.58
1:R:448:THR:HG23	1:S:499:GLU:HA	1.84	0.58
1:V:499:GLU:HA	1:X:448:THR:HG23	1.85	0.58
1:X:449:ASN:O	1:X:450:THR:OG1	2.20	0.58
1:g:286:ARG:HH12	1:g:288:HIS:CE1	2.21	0.58
1:i:286:ARG:HH12	1:i:288:HIS:CE1	2.21	0.58
1:i:416:GLU:OE1	1:i:416:GLU:N	2.28	0.58
1:l:449:ASN:O	1:l:450:THR:OG1	2.20	0.58
1:o:448:THR:HG23	1:p:499:GLU:HA	1.85	0.58
1:p:281:TYR:HB3	1:p:647:LEU:HG	1.85	0.58
1:s:281:TYR:HB3	1:s:647:LEU:HG	1.85	0.58
1:s:286:ARG:HH12	1:s:288:HIS:CE1	2.21	0.58
1:u:625:ASP:OD1	1:u:625:ASP:N	2.23	0.58
1:x:286:ARG:HH12	1:x:288:HIS:CE1	2.21	0.58
1:y:429:SER:OG	1:y:431:ASP:OD1	2.18	0.58
1:z:449:ASN:O	1:z:450:THR:OG1	2.20	0.58
1:1:620:LYS:HD3	1:1:642:PRO:HD3	1.84	0.58
1:3:522:ALA:HB1	1:3:609:ARG:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:522:ALA:HB1	1:4:609:ARG:HB2	1.86	0.58
1:6:281:TYR:HB3	1:6:647:LEU:HG	1.85	0.58
1:7:286:ARG:HH12	1:7:288:HIS:CE1	2.21	0.58
1:B:633:LEU:HB2	1:L:476:ASN:HA	1.84	0.58
1:D:286:ARG:HH12	1:D:288:HIS:CE1	2.22	0.58
1:E:281:TYR:HB3	1:E:647:LEU:HG	1.85	0.58
1:E:286:ARG:HH12	1:E:288:HIS:CE1	2.21	0.58
1:F:281:TYR:HB3	1:F:647:LEU:HG	1.85	0.58
1:G:620:LYS:HD3	1:G:642:PRO:HD3	1.84	0.58
1:O:429:SER:OG	1:O:431:ASP:OD1	2.18	0.58
1:S:281:TYR:HB3	1:S:647:LEU:HG	1.85	0.58
1:S:522:ALA:HB1	1:S:609:ARG:HB2	1.86	0.58
1:V:522:ALA:HB1	1:V:609:ARG:HB2	1.86	0.58
1:W:448:THR:HG23	1:Y:499:GLU:HA	1.85	0.58
1:X:286:ARG:HH12	1:X:288:HIS:CE1	2.22	0.58
1:m:281:TYR:HB3	1:m:647:LEU:HG	1.85	0.58
1:p:620:LYS:HD3	1:p:642:PRO:HD3	1.84	0.58
1:u:281:TYR:HB3	1:u:647:LEU:HG	1.85	0.58
1:u:522:ALA:HB1	1:u:609:ARG:HB2	1.86	0.58
1:w:291:PHE:O	1:w:292:SER:OG	2.09	0.58
1:y:325:GLN:HE22	1:y:330:THR:HG22	1.67	0.58
1:y:522:ALA:HB1	1:y:609:ARG:HB2	1.86	0.58
1:G:522:ALA:HB1	1:G:609:ARG:HB2	1.86	0.58
1:M:291:PHE:O	1:M:292:SER:OG	2.09	0.58
1:Z:281:TYR:HB3	1:Z:647:LEU:HG	1.85	0.58
1:h:522:ALA:HB1	1:h:609:ARG:HB2	1.86	0.58
1:p:522:ALA:HB1	1:p:609:ARG:HB2	1.86	0.58
1:q:470:ILE:C	1:q:472:ASP:H	2.09	0.58
1:v:416:GLU:HG2	1:v:417:ASP:N	2.15	0.58
1:x:449:ASN:O	1:x:450:THR:OG1	2.20	0.58
1:5:291:PHE:O	1:5:292:SER:OG	2.09	0.58
1:5:361:CYS:SG	1:5:362:LEU:N	2.72	0.58
1:5:470:ILE:C	1:5:472:ASP:H	2.09	0.58
1:6:361:CYS:SG	1:6:362:LEU:N	2.72	0.58
1:7:281:TYR:HB3	1:7:647:LEU:HG	1.85	0.58
1:8:625:ASP:OD1	1:8:625:ASP:N	2.23	0.58
1:E:698:ILE:O	1:P:701:THR:OG1	2.19	0.58
1:I:522:ALA:HB1	1:I:609:ARG:HB2	1.86	0.58
1:I:620:LYS:HD3	1:I:642:PRO:HD3	1.84	0.58
1:J:281:TYR:HB3	1:J:647:LEU:HG	1.85	0.58
1:J:522:ALA:HB1	1:J:609:ARG:HB2	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:522:ALA:HB1	1:M:609:ARG:HB2	1.86	0.58
1:P:625:ASP:OD1	1:P:625:ASP:N	2.23	0.58
1:Q:470:ILE:C	1:Q:472:ASP:H	2.09	0.58
1:R:522:ALA:HB1	1:R:609:ARG:HB2	1.86	0.58
1:U:416:GLU:HG2	1:U:417:ASP:N	2.15	0.58
1:Z:286:ARG:HH12	1:Z:288:HIS:CE1	2.21	0.58
1:c:522:ALA:HB1	1:c:609:ARG:HB2	1.86	0.58
1:c:620:LYS:HD3	1:c:642:PRO:HD3	1.84	0.58
1:f:620:LYS:HD3	1:f:642:PRO:HD3	1.84	0.58
1:i:698:ILE:O	1:l:701:THR:OG1	2.20	0.58
1:m:286:ARG:HH12	1:m:288:HIS:CE1	2.21	0.58
1:q:448:THR:HG23	1:r:499:GLU:HA	1.85	0.58
1:t:522:ALA:HB1	1:t:609:ARG:HB2	1.86	0.58
1:t:633:LEU:HB2	1:v:476:ASN:HA	1.84	0.58
1:z:272:TYR:HB2	1:z:378:LEU:HD22	1.84	0.58
1:z:476:ASN:HA	1:1:633:LEU:HB2	1.85	0.58
1:4:620:LYS:HD3	1:4:642:PRO:HD3	1.84	0.58
1:7:698:ILE:O	1:8:701:THR:OG1	2.19	0.58
1:C:281:TYR:HB3	1:C:647:LEU:HG	1.85	0.58
1:G:286:ARG:HH12	1:G:288:HIS:CE1	2.21	0.58
1:M:281:TYR:HB3	1:M:647:LEU:HG	1.85	0.58
1:N:281:TYR:HB3	1:N:647:LEU:HG	1.85	0.58
1:Q:257:TYR:OH	1:Q:394:CYS:O	2.21	0.58
1:Q:281:TYR:HB3	1:Q:647:LEU:HG	1.85	0.58
1:T:326:ASN:O	1:T:329:THR:OG1	2.19	0.58
1:f:286:ARG:HH12	1:f:288:HIS:CE1	2.22	0.58
1:j:286:ARG:HH12	1:j:288:HIS:CE1	2.21	0.58
1:k:522:ALA:HB1	1:k:609:ARG:HB2	1.86	0.58
1:m:272:TYR:HB2	1:m:378:LEU:HD22	1.84	0.58
1:n:286:ARG:HH12	1:n:288:HIS:CE1	2.21	0.58
1:p:286:ARG:HH12	1:p:288:HIS:CE1	2.21	0.58
1:x:448:THR:HG23	1:y:499:GLU:HA	1.85	0.58
1:2:286:ARG:HH12	1:2:288:HIS:CE1	2.21	0.58
1:3:429:SER:OG	1:3:431:ASP:OD1	2.18	0.58
1:4:286:ARG:HH12	1:4:288:HIS:CE1	2.21	0.58
1:5:257:TYR:OH	1:5:394:CYS:O	2.21	0.58
1:6:448:THR:HG23	1:7:499:GLU:HA	1.85	0.58
1:8:286:ARG:HH12	1:8:288:HIS:CE1	2.21	0.58
1:A:620:LYS:HD3	1:A:642:PRO:HD3	1.84	0.58
1:B:522:ALA:HB1	1:B:609:ARG:HB2	1.86	0.58
1:L:281:TYR:HB3	1:L:647:LEU:HG	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:625:ASP:OD1	1:S:625:ASP:N	2.23	0.58
1:W:470:ILE:C	1:W:472:ASP:H	2.09	0.58
1:X:470:ILE:C	1:X:472:ASP:H	2.09	0.58
1:Y:522:ALA:HB1	1:Y:609:ARG:HB2	1.86	0.58
1:a:281:TYR:HB3	1:a:647:LEU:HG	1.85	0.58
1:d:286:ARG:HH12	1:d:288:HIS:CE1	2.21	0.58
1:f:449:ASN:O	1:f:450:THR:OG1	2.20	0.58
1:j:620:LYS:HD3	1:j:642:PRO:HD3	1.84	0.58
1:k:281:TYR:HB3	1:k:647:LEU:HG	1.85	0.58
1:k:286:ARG:HH12	1:k:288:HIS:CE1	2.21	0.58
1:l:272:TYR:HB2	1:l:378:LEU:HD22	1.83	0.58
1:m:679:SER:O	1:m:680:VAL:HG22	2.04	0.58
1:n:620:LYS:HD3	1:n:642:PRO:HD3	1.84	0.58
1:r:522:ALA:HB1	1:r:609:ARG:HB2	1.86	0.58
1:s:429:SER:OG	1:s:431:ASP:OD1	2.18	0.58
1:1:326:ASN:O	1:1:329:THR:OG1	2.19	0.58
1:5:281:TYR:HB3	1:5:647:LEU:HG	1.85	0.58
1:A:492:SER:O	1:I:458:SER:OG	2.20	0.57
1:A:633:LEU:HB2	1:I:476:ASN:HA	1.86	0.57
1:E:448:THR:HG23	1:Q:499:GLU:HA	1.85	0.57
1:F:361:CYS:SG	1:F:362:LEU:N	2.72	0.57
1:G:449:ASN:O	1:G:450:THR:OG1	2.20	0.57
1:G:476:ASN:HA	1:I:633:LEU:HB2	1.85	0.57
1:J:286:ARG:HH12	1:J:288:HIS:CE1	2.21	0.57
1:L:291:PHE:O	1:L:292:SER:OG	2.09	0.57
1:M:286:ARG:HH12	1:M:288:HIS:CE1	2.21	0.57
1:O:286:ARG:HH12	1:O:288:HIS:CE1	2.21	0.57
1:P:257:TYR:OH	1:P:394:CYS:O	2.21	0.57
1:P:286:ARG:HH12	1:P:288:HIS:CE1	2.21	0.57
1:R:633:LEU:HB2	1:U:476:ASN:HA	1.84	0.57
1:W:281:TYR:HB3	1:W:647:LEU:HG	1.85	0.57
1:Z:272:TYR:HB2	1:Z:378:LEU:HD22	1.84	0.57
1:a:620:LYS:HD3	1:a:642:PRO:HD3	1.84	0.57
1:b:522:ALA:HB1	1:b:609:ARG:HB2	1.86	0.57
1:c:374:GLN:NE2	1:p:437:LEU:HD13	2.19	0.57
1:h:281:TYR:HB3	1:h:647:LEU:HG	1.85	0.57
1:h:620:LYS:HD3	1:h:642:PRO:HD3	1.84	0.57
1:j:449:ASN:O	1:j:450:THR:OG1	2.20	0.57
1:k:620:LYS:HD3	1:k:642:PRO:HD3	1.84	0.57
1:m:437:LEU:HD13	1:n:374:GLN:NE2	2.19	0.57
1:o:620:LYS:HD3	1:o:642:PRO:HD3	1.84	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:257:TYR:OH	1:s:394:CYS:O	2.21	0.57
1:z:499:GLU:HA	1:2:448:THR:HG23	1.86	0.57
1:C:286:ARG:HH12	1:C:288:HIS:CE1	2.21	0.57
1:C:291:PHE:O	1:C:292:SER:OG	2.09	0.57
1:E:679:SER:O	1:E:680:VAL:HG22	2.04	0.57
1:F:679:SER:O	1:F:680:VAL:HG22	2.04	0.57
1:G:704:TYR:CG	1:G:705:ASN:N	2.73	0.57
1:H:429:SER:OG	1:H:431:ASP:OD1	2.18	0.57
1:L:704:TYR:CG	1:L:705:ASN:N	2.73	0.57
1:N:620:LYS:HD3	1:N:642:PRO:HD3	1.84	0.57
1:S:291:PHE:O	1:S:292:SER:OG	2.09	0.57
1:W:257:TYR:OH	1:W:394:CYS:O	2.21	0.57
1:e:286:ARG:HH12	1:e:288:HIS:CE1	2.21	0.57
1:g:449:ASN:O	1:g:450:THR:OG1	2.20	0.57
1:h:286:ARG:HH12	1:h:288:HIS:CE1	2.21	0.57
1:l:281:TYR:HB3	1:l:647:LEU:HG	1.85	0.57
1:n:704:TYR:CG	1:n:705:ASN:N	2.73	0.57
1:p:704:TYR:CG	1:p:705:ASN:N	2.73	0.57
1:q:257:TYR:OH	1:q:394:CYS:O	2.21	0.57
1:u:286:ARG:HH12	1:u:288:HIS:CE1	2.21	0.57
1:v:704:TYR:CG	1:v:705:ASN:N	2.73	0.57
1:3:286:ARG:HH12	1:3:288:HIS:CE1	2.21	0.57
1:4:704:TYR:CG	1:4:705:ASN:N	2.73	0.57
1:5:499:GLU:HA	1:7:448:THR:HG23	1.85	0.57
1:6:704:TYR:CG	1:6:705:ASN:N	2.73	0.57
1:7:679:SER:O	1:7:680:VAL:HG22	2.04	0.57
1:8:257:TYR:OH	1:8:394:CYS:O	2.21	0.57
1:8:326:ASN:O	1:8:329:THR:OG1	2.19	0.57
1:D:704:TYR:CG	1:D:705:ASN:N	2.73	0.57
1:E:522:ALA:HB1	1:E:609:ARG:HB2	1.86	0.57
1:F:704:TYR:CG	1:F:705:ASN:N	2.73	0.57
1:H:257:TYR:OH	1:H:394:CYS:O	2.21	0.57
1:I:416:GLU:OE1	1:I:416:GLU:N	2.27	0.57
1:I:704:TYR:CG	1:I:705:ASN:N	2.73	0.57
1:J:291:PHE:O	1:J:292:SER:OG	2.09	0.57
1:J:679:SER:O	1:J:680:VAL:HG22	2.04	0.57
1:K:704:TYR:CG	1:K:705:ASN:N	2.73	0.57
1:L:286:ARG:HH12	1:L:288:HIS:CE1	2.21	0.57
1:M:679:SER:O	1:M:680:VAL:HG22	2.05	0.57
1:P:620:LYS:HD3	1:P:642:PRO:HD3	1.84	0.57
1:P:679:SER:O	1:P:680:VAL:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:257:TYR:OH	1:T:394:CYS:O	2.21	0.57
1:U:704:TYR:CG	1:U:705:ASN:N	2.73	0.57
1:Z:679:SER:O	1:Z:680:VAL:HG22	2.05	0.57
1:c:704:TYR:CG	1:c:705:ASN:N	2.73	0.57
1:i:281:TYR:HB3	1:i:647:LEU:HG	1.85	0.57
1:p:449:ASN:O	1:p:450:THR:OG1	2.20	0.57
1:q:281:TYR:HB3	1:q:647:LEU:HG	1.85	0.57
1:w:286:ARG:HH12	1:w:288:HIS:CE1	2.21	0.57
1:x:470:ILE:C	1:x:472:ASP:H	2.09	0.57
1:2:522:ALA:HB1	1:2:609:ARG:HB2	1.86	0.57
1:6:679:SER:O	1:6:680:VAL:HG22	2.04	0.57
1:7:522:ALA:HB1	1:7:609:ARG:HB2	1.86	0.57
1:8:679:SER:O	1:8:680:VAL:HG22	2.04	0.57
1:C:704:TYR:CG	1:C:705:ASN:N	2.73	0.57
1:E:704:TYR:CG	1:E:705:ASN:N	2.73	0.57
1:H:704:TYR:CG	1:H:705:ASN:N	2.73	0.57
1:I:679:SER:O	1:I:680:VAL:HG22	2.05	0.57
1:K:679:SER:O	1:K:680:VAL:HG22	2.04	0.57
1:S:286:ARG:HH12	1:S:288:HIS:CE1	2.22	0.57
1:T:522:ALA:HB1	1:T:609:ARG:HB2	1.86	0.57
1:U:522:ALA:HB1	1:U:609:ARG:HB2	1.86	0.57
1:X:257:TYR:OH	1:X:394:CYS:O	2.21	0.57
1:a:704:TYR:CG	1:a:705:ASN:N	2.73	0.57
1:b:449:ASN:O	1:b:450:THR:OG1	2.20	0.57
1:c:679:SER:O	1:c:680:VAL:HG22	2.04	0.57
1:d:522:ALA:HB1	1:d:609:ARG:HB2	1.86	0.57
1:g:281:TYR:HB3	1:g:647:LEU:HG	1.85	0.57
1:g:704:TYR:CG	1:g:705:ASN:N	2.73	0.57
1:i:704:TYR:CG	1:i:705:ASN:N	2.73	0.57
1:k:308:PRO:HD3	1:k:637:PHE:CE2	2.40	0.57
1:v:281:TYR:HB3	1:v:647:LEU:HG	1.85	0.57
1:w:437:LEU:HD13	1:x:374:GLN:NE2	2.20	0.57
1:x:257:TYR:OH	1:x:394:CYS:O	2.21	0.57
1:z:281:TYR:HB3	1:z:647:LEU:HG	1.85	0.57
1:z:470:ILE:O	1:z:472:ASP:N	2.29	0.57
1:z:522:ALA:HB1	1:z:609:ARG:HB2	1.86	0.57
1:5:308:PRO:HD3	1:5:637:PHE:CE2	2.40	0.57
1:5:704:TYR:CG	1:5:705:ASN:N	2.73	0.57
1:8:620:LYS:HD3	1:8:642:PRO:HD3	1.84	0.57
1:8:704:TYR:CG	1:8:705:ASN:N	2.73	0.57
1:A:704:TYR:CG	1:A:705:ASN:N	2.73	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:449:ASN:O	1:B:450:THR:OG1	2.20	0.57
1:D:679:SER:O	1:D:680:VAL:HG22	2.04	0.57
1:H:679:SER:O	1:H:680:VAL:HG22	2.04	0.57
1:N:522:ALA:HB1	1:N:609:ARG:HB2	1.86	0.57
1:N:704:TYR:CG	1:N:705:ASN:N	2.73	0.57
1:O:308:PRO:HD3	1:O:637:PHE:CE2	2.40	0.57
1:P:308:PRO:HD3	1:P:637:PHE:CE2	2.40	0.57
1:P:704:TYR:CG	1:P:705:ASN:N	2.73	0.57
1:Q:308:PRO:HD3	1:Q:637:PHE:CE2	2.40	0.57
1:Q:704:TYR:CG	1:Q:705:ASN:N	2.73	0.57
1:S:704:TYR:CG	1:S:705:ASN:N	2.73	0.57
1:U:281:TYR:HB3	1:U:647:LEU:HG	1.85	0.57
1:U:361:CYS:SG	1:U:362:LEU:N	2.72	0.57
1:X:524:ALA:HB1	1:X:572:ALA:HB2	1.87	0.57
1:X:704:TYR:CG	1:X:705:ASN:N	2.73	0.57
1:Z:447:ARG:HH12	1:Z:450:THR:HG22	1.70	0.57
1:a:447:ARG:HH12	1:a:450:THR:HG22	1.70	0.57
1:a:522:ALA:HB1	1:a:609:ARG:HB2	1.86	0.57
1:d:679:SER:O	1:d:680:VAL:HG22	2.05	0.57
1:f:679:SER:O	1:f:680:VAL:HG22	2.04	0.57
1:h:447:ARG:HH12	1:h:450:THR:HG22	1.70	0.57
1:h:679:SER:O	1:h:680:VAL:HG22	2.04	0.57
1:k:679:SER:O	1:k:680:VAL:HG22	2.05	0.57
1:l:286:ARG:HH12	1:l:288:HIS:CE1	2.21	0.57
1:l:522:ALA:HB1	1:l:609:ARG:HB2	1.86	0.57
1:m:447:ARG:HH12	1:m:450:THR:HG22	1.70	0.57
1:n:308:PRO:HD3	1:n:637:PHE:CE2	2.40	0.57
1:o:449:ASN:O	1:o:450:THR:OG1	2.20	0.57
1:o:704:TYR:CG	1:o:705:ASN:N	2.73	0.57
1:p:323:VAL:HG21	1:q:656:ASN:HD22	1.68	0.57
1:s:522:ALA:HB1	1:s:609:ARG:HB2	1.86	0.57
1:s:679:SER:O	1:s:680:VAL:HG22	2.05	0.57
1:u:704:TYR:CG	1:u:705:ASN:N	2.73	0.57
1:v:361:CYS:SG	1:v:362:LEU:N	2.72	0.57
1:x:704:TYR:CG	1:x:705:ASN:N	2.73	0.57
1:z:286:ARG:HH12	1:z:288:HIS:CE1	2.21	0.57
1:1:257:TYR:OH	1:1:394:CYS:O	2.21	0.57
1:3:524:ALA:HB1	1:3:572:ALA:HB2	1.87	0.57
1:7:704:TYR:CG	1:7:705:ASN:N	2.73	0.57
1:D:522:ALA:HB1	1:D:609:ARG:HB2	1.86	0.57
1:E:437:LEU:HD13	1:Q:374:GLN:NE2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:449:ASN:O	1:F:450:THR:OG1	2.20	0.57
1:H:522:ALA:HB1	1:H:609:ARG:HB2	1.86	0.57
1:I:281:TYR:HB3	1:I:647:LEU:HG	1.85	0.57
1:N:447:ARG:HH12	1:N:450:THR:HG22	1.70	0.57
1:T:704:TYR:CG	1:T:705:ASN:N	2.73	0.57
1:U:308:PRO:HD3	1:U:637:PHE:CE2	2.40	0.57
1:b:679:SER:O	1:b:680:VAL:HG22	2.04	0.57
1:c:281:TYR:HB3	1:c:647:LEU:HG	1.85	0.57
1:f:704:TYR:CG	1:f:705:ASN:N	2.73	0.57
1:g:522:ALA:HB1	1:g:609:ARG:HB2	1.86	0.57
1:h:308:PRO:HD3	1:h:637:PHE:CE2	2.40	0.57
1:j:679:SER:O	1:j:680:VAL:HG22	2.05	0.57
1:j:704:TYR:CG	1:j:705:ASN:N	2.73	0.57
1:l:470:ILE:O	1:l:472:ASP:N	2.29	0.57
1:u:679:SER:O	1:u:680:VAL:HG22	2.04	0.57
1:v:308:PRO:HD3	1:v:637:PHE:CE2	2.40	0.57
1:v:447:ARG:HH12	1:v:450:THR:HG22	1.70	0.57
1:v:522:ALA:HB1	1:v:609:ARG:HB2	1.86	0.57
1:w:715:ASP:CG	1:w:716:THR:H	2.13	0.57
1:y:326:ASN:O	1:y:329:THR:OG1	2.19	0.57
1:1:704:TYR:CG	1:1:705:ASN:N	2.73	0.57
1:2:679:SER:O	1:2:680:VAL:HG22	2.05	0.57
1:3:308:PRO:HD3	1:3:637:PHE:CE2	2.40	0.57
1:3:704:TYR:CG	1:3:705:ASN:N	2.73	0.57
1:4:308:PRO:HD3	1:4:637:PHE:CE2	2.40	0.57
1:8:308:PRO:HD3	1:8:637:PHE:CE2	2.40	0.57
1:B:679:SER:O	1:B:680:VAL:HG22	2.04	0.57
1:F:524:ALA:HB1	1:F:572:ALA:HB2	1.87	0.57
1:H:524:ALA:HB1	1:H:572:ALA:HB2	1.87	0.57
1:I:308:PRO:HD3	1:I:637:PHE:CE2	2.40	0.57
1:O:524:ALA:HB1	1:O:572:ALA:HB2	1.87	0.57
1:O:704:TYR:CG	1:O:705:ASN:N	2.73	0.57
1:S:679:SER:O	1:S:680:VAL:HG22	2.05	0.57
1:T:416:GLU:OE1	1:T:416:GLU:N	2.28	0.57
1:T:499:GLU:HA	1:l:448:THR:HG23	1.85	0.57
1:U:447:ARG:HH12	1:U:450:THR:HG22	1.70	0.57
1:V:524:ALA:HB1	1:V:572:ALA:HB2	1.87	0.57
1:W:437:LEU:HD13	1:Y:374:GLN:NE2	2.20	0.57
1:X:374:GLN:NE2	1:e:437:LEU:HD13	2.20	0.57
1:Y:308:PRO:HD3	1:Y:637:PHE:CE2	2.40	0.57
1:Y:447:ARG:HH12	1:Y:450:THR:HG22	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:308:PRO:HD3	1:d:637:PHE:CE2	2.40	0.57
1:d:524:ALA:HB1	1:d:572:ALA:HB2	1.87	0.57
1:e:715:ASP:CG	1:e:716:THR:H	2.13	0.57
1:k:447:ARG:HH12	1:k:450:THR:HG22	1.70	0.57
1:m:715:ASP:CG	1:m:716:THR:H	2.13	0.57
1:n:715:ASP:CG	1:n:716:THR:H	2.13	0.57
1:q:308:PRO:HD3	1:q:637:PHE:CE2	2.40	0.57
1:s:524:ALA:HB1	1:s:572:ALA:HB2	1.87	0.57
1:t:701:THR:OG1	1:5:698:ILE:O	2.18	0.57
1:u:291:PHE:O	1:u:292:SER:OG	2.09	0.57
1:x:524:ALA:HB1	1:x:572:ALA:HB2	1.87	0.57
1:1:416:GLU:OE1	1:1:416:GLU:N	2.28	0.57
1:1:522:ALA:HB1	1:1:609:ARG:HB2	1.86	0.57
1:2:281:TYR:HB3	1:2:647:LEU:HG	1.85	0.57
1:4:447:ARG:HH12	1:4:450:THR:HG22	1.70	0.57
1:6:524:ALA:HB1	1:6:572:ALA:HB2	1.87	0.57
1:E:715:ASP:CG	1:E:716:THR:H	2.13	0.57
1:F:416:GLU:CG	1:F:417:ASP:H	2.17	0.57
1:I:447:ARG:HH12	1:I:450:THR:HG22	1.70	0.57
1:K:429:SER:OG	1:K:431:ASP:OD1	2.18	0.57
1:K:447:ARG:HH12	1:K:450:THR:HG22	1.70	0.57
1:K:522:ALA:HB1	1:K:609:ARG:HB2	1.86	0.57
1:L:522:ALA:HB1	1:L:609:ARG:HB2	1.86	0.57
1:Q:522:ALA:HB1	1:Q:609:ARG:HB2	1.86	0.57
1:Q:698:ILE:O	1:R:701:THR:OG1	2.18	0.57
1:V:308:PRO:HD3	1:V:637:PHE:CE2	2.40	0.57
1:V:374:GLN:NE2	1:X:437:LEU:HD13	2.20	0.57
1:W:308:PRO:HD3	1:W:637:PHE:CE2	2.40	0.57
1:Z:715:ASP:CG	1:Z:716:THR:H	2.13	0.57
1:a:286:ARG:HH12	1:a:288:HIS:CE1	2.21	0.57
1:c:308:PRO:HD3	1:c:637:PHE:CE2	2.40	0.57
1:c:416:GLU:OE1	1:c:416:GLU:N	2.28	0.57
1:c:447:ARG:HH12	1:c:450:THR:HG22	1.70	0.57
1:i:308:PRO:HD3	1:i:637:PHE:CE2	2.40	0.57
1:k:257:TYR:OH	1:k:394:CYS:O	2.21	0.57
1:l:715:ASP:CG	1:l:716:THR:H	2.13	0.57
1:m:704:TYR:CG	1:m:705:ASN:N	2.73	0.57
1:n:447:ARG:HH12	1:n:450:THR:HG22	1.70	0.57
1:p:679:SER:O	1:p:680:VAL:HG22	2.04	0.57
1:r:308:PRO:HD3	1:r:637:PHE:CE2	2.40	0.57
1:r:447:ARG:HH12	1:r:450:THR:HG22	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:308:PRO:HD3	1:s:637:PHE:CE2	2.40	0.57
1:x:447:ARG:HH12	1:x:450:THR:HG22	1.70	0.57
1:y:308:PRO:HD3	1:y:637:PHE:CE2	2.40	0.57
1:y:524:ALA:HB1	1:y:572:ALA:HB2	1.87	0.57
1:z:704:TYR:CG	1:z:705:ASN:N	2.73	0.57
1:1:524:ALA:HB1	1:1:572:ALA:HB2	1.87	0.57
1:2:308:PRO:HD3	1:2:637:PHE:CE2	2.40	0.57
1:2:524:ALA:HB1	1:2:572:ALA:HB2	1.87	0.57
1:2:625:ASP:OD1	1:2:625:ASP:N	2.23	0.57
1:4:715:ASP:CG	1:4:716:THR:H	2.13	0.57
1:5:374:GLN:NE2	1:7:437:LEU:HD13	2.20	0.57
1:6:449:ASN:O	1:6:450:THR:OG1	2.20	0.57
1:7:545:GLN:OE1	1:7:545:GLN:N	2.34	0.57
1:C:447:ARG:HH12	1:C:450:THR:HG22	1.70	0.57
1:C:522:ALA:HB1	1:C:609:ARG:HB2	1.86	0.57
1:D:447:ARG:HH12	1:D:450:THR:HG22	1.70	0.57
1:G:679:SER:O	1:G:680:VAL:HG22	2.05	0.57
1:N:286:ARG:HH12	1:N:288:HIS:CE1	2.22	0.57
1:S:308:PRO:HD3	1:S:637:PHE:CE2	2.40	0.57
1:T:281:TYR:HB3	1:T:647:LEU:HG	1.85	0.57
1:T:374:GLN:NE2	1:l:437:LEU:HD13	2.20	0.57
1:T:524:ALA:HB1	1:T:572:ALA:HB2	1.87	0.57
1:U:715:ASP:CG	1:U:716:THR:H	2.13	0.57
1:W:286:ARG:HH12	1:W:288:HIS:CE1	2.21	0.57
1:X:522:ALA:HB1	1:X:609:ARG:HB2	1.86	0.57
1:Z:704:TYR:CG	1:Z:705:ASN:N	2.73	0.57
1:a:679:SER:O	1:a:680:VAL:HG22	2.04	0.57
1:d:447:ARG:HH12	1:d:450:THR:HG22	1.70	0.57
1:g:308:PRO:HD3	1:g:637:PHE:CE2	2.40	0.57
1:g:374:GLN:NE2	1:h:437:LEU:HD13	2.20	0.57
1:i:374:GLN:NE2	1:k:437:LEU:HD13	2.20	0.57
1:i:437:LEU:HD13	1:j:374:GLN:NE2	2.20	0.57
1:i:522:ALA:HB1	1:i:609:ARG:HB2	1.86	0.57
1:i:679:SER:O	1:i:680:VAL:HG22	2.04	0.57
1:l:308:PRO:HD3	1:l:637:PHE:CE2	2.40	0.57
1:o:257:TYR:OH	1:o:394:CYS:O	2.21	0.57
1:o:715:ASP:CG	1:o:716:THR:H	2.13	0.57
1:q:286:ARG:HH12	1:q:288:HIS:CE1	2.21	0.57
1:v:715:ASP:CG	1:v:716:THR:H	2.13	0.57
1:x:522:ALA:HB1	1:x:609:ARG:HB2	1.86	0.57
1:5:437:LEU:HD13	1:6:374:GLN:NE2	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:522:ALA:HB1	1:5:609:ARG:HB2	1.86	0.57
1:6:416:GLU:CG	1:6:417:ASP:H	2.17	0.57
1:7:715:ASP:CG	1:7:716:THR:H	2.13	0.57
1:A:308:PRO:HD3	1:A:637:PHE:CE2	2.40	0.57
1:A:715:ASP:CG	1:A:716:THR:H	2.13	0.57
1:F:308:PRO:HD3	1:F:637:PHE:CE2	2.40	0.57
1:H:308:PRO:HD3	1:H:637:PHE:CE2	2.40	0.57
1:H:361:CYS:SG	1:H:362:LEU:N	2.72	0.57
1:J:437:LEU:HD13	1:L:374:GLN:NE2	2.20	0.57
1:K:308:PRO:HD3	1:K:637:PHE:CE2	2.40	0.57
1:K:374:GLN:NE2	1:8:437:LEU:HD13	2.20	0.57
1:L:447:ARG:HH12	1:L:450:THR:HG22	1.70	0.57
1:L:679:SER:O	1:L:680:VAL:HG22	2.04	0.57
1:O:715:ASP:CG	1:O:716:THR:H	2.13	0.57
1:Q:524:ALA:HB1	1:Q:572:ALA:HB2	1.87	0.57
1:T:447:ARG:HH12	1:T:450:THR:HG22	1.70	0.57
1:V:679:SER:O	1:V:680:VAL:HG22	2.04	0.57
1:W:679:SER:O	1:W:680:VAL:HG22	2.04	0.57
1:X:447:ARG:HH12	1:X:450:THR:HG22	1.70	0.57
1:X:679:SER:O	1:X:680:VAL:HG22	2.04	0.57
1:b:308:PRO:HD3	1:b:637:PHE:CE2	2.40	0.57
1:d:704:TYR:CG	1:d:705:ASN:N	2.73	0.57
1:h:257:TYR:OH	1:h:394:CYS:O	2.21	0.57
1:h:416:GLU:OE1	1:h:416:GLU:N	2.28	0.57
1:k:416:GLU:OE1	1:k:416:GLU:N	2.28	0.57
1:l:257:TYR:OH	1:l:394:CYS:O	2.21	0.57
1:l:704:TYR:CG	1:l:705:ASN:N	2.73	0.57
1:q:447:ARG:HH12	1:q:450:THR:HG22	1.70	0.57
1:q:679:SER:O	1:q:680:VAL:HG22	2.05	0.57
1:r:704:TYR:CG	1:r:705:ASN:N	2.73	0.57
1:s:361:CYS:SG	1:s:362:LEU:N	2.72	0.57
1:t:374:GLN:NE2	1:v:437:LEU:HD13	2.20	0.57
1:u:308:PRO:HD3	1:u:637:PHE:CE2	2.40	0.57
1:w:522:ALA:HB1	1:w:609:ARG:HB2	1.86	0.57
1:x:437:LEU:HD13	1:y:374:GLN:NE2	2.20	0.57
1:y:679:SER:O	1:y:680:VAL:HG22	2.04	0.57
1:z:308:PRO:HD3	1:z:637:PHE:CE2	2.40	0.57
1:z:715:ASP:CG	1:z:716:THR:H	2.13	0.57
1:1:361:CYS:SG	1:1:362:LEU:N	2.72	0.57
1:1:447:ARG:HH12	1:1:450:THR:HG22	1.70	0.57
1:2:447:ARG:HH12	1:2:450:THR:HG22	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:704:TYR:CG	1:2:705:ASN:N	2.73	0.57
1:5:524:ALA:HB1	1:5:572:ALA:HB2	1.87	0.57
1:6:308:PRO:HD3	1:6:637:PHE:CE2	2.40	0.57
1:8:449:ASN:O	1:8:450:THR:OG1	2.20	0.57
1:A:257:TYR:OH	1:A:394:CYS:O	2.21	0.56
1:B:308:PRO:HD3	1:B:637:PHE:CE2	2.40	0.56
1:B:704:TYR:CG	1:B:705:ASN:N	2.73	0.56
1:C:308:PRO:HD3	1:C:637:PHE:CE2	2.40	0.56
1:C:374:GLN:NE2	1:M:437:LEU:HD13	2.20	0.56
1:C:416:GLU:CG	1:C:417:ASP:H	2.17	0.56
1:C:679:SER:O	1:C:680:VAL:HG22	2.04	0.56
1:D:308:PRO:HD3	1:D:637:PHE:CE2	2.40	0.56
1:D:374:GLN:NE2	1:P:437:LEU:HD13	2.20	0.56
1:D:429:SER:OG	1:D:431:ASP:OD1	2.18	0.56
1:D:524:ALA:HB1	1:D:572:ALA:HB2	1.87	0.56
1:E:524:ALA:HB1	1:E:572:ALA:HB2	1.87	0.56
1:F:374:GLN:NE2	1:Q:437:LEU:HD13	2.20	0.56
1:G:437:LEU:HD13	1:I:374:GLN:NE2	2.19	0.56
1:H:374:GLN:NE2	1:Y:437:LEU:HD13	2.20	0.56
1:H:413:TYR:OH	1:H:641:HIS:O	2.23	0.56
1:I:413:TYR:OH	1:I:641:HIS:O	2.23	0.56
1:K:524:ALA:HB1	1:K:572:ALA:HB2	1.87	0.56
1:N:679:SER:O	1:N:680:VAL:HG22	2.05	0.56
1:R:625:ASP:OD1	1:R:625:ASP:N	2.23	0.56
1:R:679:SER:O	1:R:680:VAL:HG22	2.04	0.56
1:W:447:ARG:HH12	1:W:450:THR:HG22	1.70	0.56
1:X:413:TYR:OH	1:X:641:HIS:O	2.23	0.56
1:Y:679:SER:O	1:Y:680:VAL:HG22	2.04	0.56
1:Y:704:TYR:CG	1:Y:705:ASN:N	2.73	0.56
1:c:413:TYR:OH	1:c:641:HIS:O	2.23	0.56
1:d:281:TYR:HB3	1:d:647:LEU:HG	1.85	0.56
1:d:625:ASP:OD1	1:d:625:ASP:N	2.23	0.56
1:e:679:SER:O	1:e:680:VAL:HG22	2.04	0.56
1:e:704:TYR:CG	1:e:705:ASN:N	2.73	0.56
1:g:679:SER:O	1:g:680:VAL:HG22	2.04	0.56
1:j:447:ARG:HH12	1:j:450:THR:HG22	1.70	0.56
1:o:308:PRO:HD3	1:o:637:PHE:CE2	2.40	0.56
1:q:437:LEU:HD13	1:r:374:GLN:NE2	2.20	0.56
1:s:413:TYR:OH	1:s:641:HIS:O	2.23	0.56
1:t:308:PRO:HD3	1:t:637:PHE:CE2	2.40	0.56
1:t:679:SER:O	1:t:680:VAL:HG22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:704:TYR:CG	1:w:705:ASN:N	2.73	0.56
1:x:679:SER:O	1:x:680:VAL:HG22	2.04	0.56
1:1:281:TYR:HB3	1:1:647:LEU:HG	1.85	0.56
1:5:679:SER:O	1:5:680:VAL:HG22	2.05	0.56
1:7:524:ALA:HB1	1:7:572:ALA:HB2	1.87	0.56
1:7:701:THR:OG1	1:8:698:ILE:O	2.18	0.56
1:B:281:TYR:HB3	1:B:647:LEU:HG	1.85	0.56
1:E:374:GLN:NE2	1:F:437:LEU:HD13	2.20	0.56
1:F:287:PHE:CE1	1:F:684:TRP:HH2	2.24	0.56
1:F:447:ARG:HH12	1:F:450:THR:HG22	1.70	0.56
1:G:701:THR:OG1	1:H:698:ILE:O	2.19	0.56
1:H:447:ARG:HH12	1:H:450:THR:HG22	1.70	0.56
1:L:308:PRO:HD3	1:L:637:PHE:CE2	2.40	0.56
1:P:449:ASN:O	1:P:450:THR:OG1	2.20	0.56
1:Q:679:SER:O	1:Q:680:VAL:HG22	2.04	0.56
1:R:374:GLN:NE2	1:U:437:LEU:HD13	2.20	0.56
1:S:287:PHE:CE1	1:S:684:TRP:HH2	2.24	0.56
1:U:416:GLU:CG	1:U:417:ASP:H	2.17	0.56
1:V:447:ARG:HH12	1:V:450:THR:HG22	1.70	0.56
1:W:522:ALA:HB1	1:W:609:ARG:HB2	1.86	0.56
1:Z:522:ALA:HB1	1:Z:609:ARG:HB2	1.86	0.56
1:d:413:TYR:OH	1:d:641:HIS:O	2.24	0.56
1:f:287:PHE:CE1	1:f:684:TRP:HH2	2.24	0.56
1:f:447:ARG:HH12	1:f:450:THR:HG22	1.70	0.56
1:j:287:PHE:CE1	1:j:684:TRP:HH2	2.24	0.56
1:u:287:PHE:CE1	1:u:684:TRP:HH2	2.24	0.56
1:v:416:GLU:CG	1:v:417:ASP:H	2.18	0.56
1:y:447:ARG:HH12	1:y:450:THR:HG22	1.70	0.56
1:z:257:TYR:OH	1:z:394:CYS:O	2.21	0.56
1:2:413:TYR:OH	1:2:641:HIS:O	2.23	0.56
1:3:281:TYR:HB3	1:3:647:LEU:HG	1.85	0.56
1:3:715:ASP:CG	1:3:716:THR:H	2.13	0.56
1:6:287:PHE:CE1	1:6:684:TRP:HH2	2.24	0.56
1:6:437:LEU:HD13	1:7:374:GLN:NE2	2.20	0.56
1:6:447:ARG:HH12	1:6:450:THR:HG22	1.70	0.56
1:8:287:PHE:CE1	1:8:684:TRP:HH2	2.24	0.56
1:A:287:PHE:HB2	1:A:613:LEU:HA	1.88	0.56
1:A:287:PHE:CE1	1:A:684:TRP:HH2	2.24	0.56
1:A:679:SER:O	1:A:680:VAL:HG22	2.05	0.56
1:E:287:PHE:HB2	1:E:613:LEU:HA	1.88	0.56
1:E:308:PRO:HD3	1:E:637:PHE:CE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:701:THR:OG1	1:P:698:ILE:O	2.18	0.56
1:F:257:TYR:OH	1:F:394:CYS:O	2.21	0.56
1:G:308:PRO:HD3	1:G:637:PHE:CE2	2.40	0.56
1:I:524:ALA:HB1	1:I:572:ALA:HB2	1.87	0.56
1:I:689:GLU:HG3	1:I:731:LEU:HD13	1.88	0.56
1:J:287:PHE:CE1	1:J:684:TRP:HH2	2.24	0.56
1:J:704:TYR:CG	1:J:705:ASN:N	2.73	0.56
1:L:247:TRP:NE1	1:L:677:GLN:O	2.34	0.56
1:L:416:GLU:CG	1:L:417:ASP:H	2.18	0.56
1:M:287:PHE:CE1	1:M:684:TRP:HH2	2.24	0.56
1:M:374:GLN:NE2	1:b:437:LEU:HD13	2.20	0.56
1:M:547:SER:HG	1:b:443:TYR:HH	1.54	0.56
1:N:287:PHE:HB2	1:N:613:LEU:HA	1.88	0.56
1:O:281:TYR:HB3	1:O:647:LEU:HG	1.85	0.56
1:O:437:LEU:HD13	1:m:374:GLN:NE2	2.20	0.56
1:P:287:PHE:CE1	1:P:684:TRP:HH2	2.24	0.56
1:R:287:PHE:HB2	1:R:613:LEU:HA	1.88	0.56
1:R:308:PRO:HD3	1:R:637:PHE:CE2	2.40	0.56
1:R:437:LEU:HD13	1:S:374:GLN:NE2	2.20	0.56
1:R:447:ARG:HH12	1:R:450:THR:HG22	1.70	0.56
1:S:413:TYR:OH	1:S:641:HIS:O	2.24	0.56
1:T:287:PHE:CE1	1:T:684:TRP:HH2	2.24	0.56
1:T:715:ASP:CG	1:T:716:THR:H	2.13	0.56
1:X:287:PHE:CE1	1:X:684:TRP:HH2	2.24	0.56
1:X:308:PRO:HD3	1:X:637:PHE:CE2	2.40	0.56
1:X:715:ASP:CG	1:X:716:THR:H	2.13	0.56
1:Y:416:GLU:CG	1:Y:417:ASP:H	2.17	0.56
1:Z:374:GLN:NE2	1:3:437:LEU:HD13	2.20	0.56
1:Z:437:LEU:HD13	1:4:374:GLN:NE2	2.20	0.56
1:b:281:TYR:HB3	1:b:647:LEU:HG	1.85	0.56
1:b:704:TYR:CG	1:b:705:ASN:N	2.73	0.56
1:c:524:ALA:HB1	1:c:572:ALA:HB2	1.87	0.56
1:c:689:GLU:HG3	1:c:731:LEU:HD13	1.88	0.56
1:d:416:GLU:CG	1:d:417:ASP:H	2.17	0.56
1:e:522:ALA:HB1	1:e:609:ARG:HB2	1.86	0.56
1:f:308:PRO:HD3	1:f:637:PHE:CE2	2.40	0.56
1:f:374:GLN:NE2	1:g:437:LEU:HD13	2.20	0.56
1:f:524:ALA:HB1	1:f:572:ALA:HB2	1.87	0.56
1:g:413:TYR:OH	1:g:641:HIS:O	2.23	0.56
1:g:524:ALA:HB1	1:g:572:ALA:HB2	1.87	0.56
1:g:689:GLU:HG3	1:g:731:LEU:HD13	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:291:PHE:O	1:h:292:SER:OG	2.09	0.56
1:i:524:ALA:HB1	1:i:572:ALA:HB2	1.87	0.56
1:j:308:PRO:HD3	1:j:637:PHE:CE2	2.40	0.56
1:j:416:GLU:OE1	1:j:416:GLU:N	2.28	0.56
1:j:524:ALA:HB1	1:j:572:ALA:HB2	1.87	0.56
1:k:291:PHE:O	1:k:292:SER:OG	2.09	0.56
1:m:522:ALA:HB1	1:m:609:ARG:HB2	1.86	0.56
1:n:287:PHE:CE1	1:n:684:TRP:HH2	2.23	0.56
1:n:679:SER:O	1:n:680:VAL:HG22	2.04	0.56
1:n:689:GLU:HG3	1:n:731:LEU:HD13	1.88	0.56
1:o:287:PHE:CE1	1:o:684:TRP:HH2	2.24	0.56
1:o:287:PHE:HB2	1:o:613:LEU:HA	1.88	0.56
1:o:679:SER:O	1:o:680:VAL:HG22	2.05	0.56
1:q:522:ALA:HB1	1:q:609:ARG:HB2	1.86	0.56
1:r:437:LEU:HD13	1:s:374:GLN:NE2	2.20	0.56
1:r:679:SER:O	1:r:680:VAL:HG22	2.05	0.56
1:s:447:ARG:HH12	1:s:450:THR:HG22	1.70	0.56
1:s:449:ASN:O	1:s:450:THR:OG1	2.20	0.56
1:u:413:TYR:OH	1:u:641:HIS:O	2.23	0.56
1:u:449:ASN:O	1:u:450:THR:OG1	2.20	0.56
1:w:308:PRO:HD3	1:w:637:PHE:CE2	2.40	0.56
1:w:679:SER:O	1:w:680:VAL:HG22	2.05	0.56
1:x:308:PRO:HD3	1:x:637:PHE:CE2	2.40	0.56
1:x:416:GLU:OE1	1:x:416:GLU:N	2.28	0.56
1:y:715:ASP:CG	1:y:716:THR:H	2.13	0.56
1:z:437:LEU:HD13	1:1:374:GLN:NE2	2.20	0.56
1:1:287:PHE:CE1	1:1:684:TRP:HH2	2.24	0.56
1:1:437:LEU:HD13	1:2:374:GLN:NE2	2.20	0.56
1:1:715:ASP:CG	1:1:716:THR:H	2.13	0.56
1:4:689:GLU:HG3	1:4:731:LEU:HD13	1.88	0.56
1:7:287:PHE:HB2	1:7:613:LEU:HA	1.88	0.56
1:8:715:ASP:CG	1:8:716:THR:H	2.13	0.56
1:B:437:LEU:HD13	1:J:374:GLN:NE2	2.20	0.56
1:B:715:ASP:CG	1:B:716:THR:H	2.13	0.56
1:I:240:ILE:HA	1:I:683:GLU:HA	1.88	0.56
1:J:308:PRO:HD3	1:J:637:PHE:CE2	2.40	0.56
1:M:308:PRO:HD3	1:M:637:PHE:CE2	2.40	0.56
1:M:704:TYR:CG	1:M:705:ASN:N	2.73	0.56
1:N:308:PRO:HD3	1:N:637:PHE:CE2	2.40	0.56
1:O:287:PHE:CE1	1:O:684:TRP:HH2	2.24	0.56
1:O:679:SER:O	1:O:680:VAL:HG22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:247:TRP:NE1	1:R:677:GLN:O	2.34	0.56
1:T:361:CYS:SG	1:T:362:LEU:N	2.72	0.56
1:X:451:PRO:HB2	1:X:453:GLY:O	2.06	0.56
1:Y:715:ASP:CG	1:Y:716:THR:H	2.13	0.56
1:Z:287:PHE:CE1	1:Z:684:TRP:HH2	2.24	0.56
1:Z:689:GLU:HG3	1:Z:731:LEU:HD13	1.88	0.56
1:a:524:ALA:HB1	1:a:572:ALA:HB2	1.87	0.56
1:b:715:ASP:CG	1:b:716:THR:H	2.13	0.56
1:i:689:GLU:HG3	1:i:731:LEU:HD13	1.88	0.56
1:k:715:ASP:CG	1:k:716:THR:H	2.13	0.56
1:l:287:PHE:HB2	1:l:613:LEU:HA	1.88	0.56
1:n:413:TYR:OH	1:n:641:HIS:O	2.23	0.56
1:p:308:PRO:HD3	1:p:637:PHE:CE2	2.40	0.56
1:p:659:THR:HG22	1:6:250:PRO:HB2	1.86	0.56
1:q:240:ILE:HA	1:q:683:GLU:HA	1.88	0.56
1:r:715:ASP:CG	1:r:716:THR:H	2.13	0.56
1:t:287:PHE:HB2	1:t:613:LEU:HA	1.88	0.56
1:t:437:LEU:HD13	1:u:374:GLN:NE2	2.20	0.56
1:t:447:ARG:HH12	1:t:450:THR:HG22	1.70	0.56
1:t:625:ASP:OD1	1:t:625:ASP:N	2.23	0.56
1:x:287:PHE:CE1	1:x:684:TRP:HH2	2.24	0.56
1:x:715:ASP:CG	1:x:716:THR:H	2.13	0.56
1:y:416:GLU:CG	1:y:417:ASP:H	2.17	0.56
1:2:416:GLU:CG	1:2:417:ASP:H	2.17	0.56
1:3:287:PHE:CE1	1:3:684:TRP:HH2	2.24	0.56
1:4:287:PHE:CE1	1:4:684:TRP:HH2	2.24	0.56
1:4:679:SER:O	1:4:680:VAL:HG22	2.04	0.56
1:6:257:TYR:OH	1:6:394:CYS:O	2.21	0.56
1:A:437:LEU:HD13	1:G:374:GLN:NE2	2.20	0.56
1:A:689:GLU:HG3	1:A:731:LEU:HD13	1.88	0.56
1:G:451:PRO:HB2	1:G:453:GLY:O	2.06	0.56
1:G:715:ASP:CG	1:G:716:THR:H	2.13	0.56
1:H:451:PRO:HB2	1:H:453:GLY:O	2.06	0.56
1:J:287:PHE:HB2	1:J:613:LEU:HA	1.87	0.56
1:J:447:ARG:HH12	1:J:450:THR:HG22	1.70	0.56
1:J:449:ASN:O	1:J:450:THR:OG1	2.20	0.56
1:M:287:PHE:HB2	1:M:613:LEU:HA	1.88	0.56
1:N:524:ALA:HB1	1:N:572:ALA:HB2	1.87	0.56
1:O:287:PHE:HB2	1:O:613:LEU:HA	1.88	0.56
1:O:451:PRO:HB2	1:O:453:GLY:O	2.06	0.56
1:P:715:ASP:CG	1:P:716:THR:H	2.13	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:416:GLU:OE1	1:S:416:GLU:N	2.28	0.56
1:S:449:ASN:O	1:S:450:THR:OG1	2.20	0.56
1:S:524:ALA:HB1	1:S:572:ALA:HB2	1.87	0.56
1:V:715:ASP:CG	1:V:716:THR:H	2.13	0.56
1:W:240:ILE:HA	1:W:683:GLU:HA	1.88	0.56
1:W:451:PRO:HB2	1:W:453:GLY:O	2.06	0.56
1:Y:413:TYR:OH	1:Y:641:HIS:O	2.23	0.56
1:a:287:PHE:HB2	1:a:613:LEU:HA	1.88	0.56
1:c:240:ILE:HA	1:c:683:GLU:HA	1.88	0.56
1:e:308:PRO:HD3	1:e:637:PHE:CE2	2.40	0.56
1:h:715:ASP:CG	1:h:716:THR:H	2.13	0.56
1:j:689:GLU:HG3	1:j:731:LEU:HD13	1.88	0.56
1:j:698:ILE:O	1:w:701:THR:OG1	2.19	0.56
1:m:287:PHE:CE1	1:m:684:TRP:HH2	2.24	0.56
1:m:689:GLU:HG3	1:m:731:LEU:HD13	1.88	0.56
1:p:451:PRO:HB2	1:p:453:GLY:O	2.06	0.56
1:q:451:PRO:HB2	1:q:453:GLY:O	2.06	0.56
1:r:413:TYR:OH	1:r:641:HIS:O	2.23	0.56
1:s:704:TYR:CG	1:s:705:ASN:N	2.73	0.56
1:t:247:TRP:NE1	1:t:677:GLN:O	2.34	0.56
1:x:451:PRO:HB2	1:x:453:GLY:O	2.06	0.56
1:z:287:PHE:HB2	1:z:613:LEU:HA	1.88	0.56
1:z:374:GLN:NE2	1:2:437:LEU:HD13	2.20	0.56
1:2:698:ILE:O	1:4:701:THR:OG1	2.18	0.56
1:3:679:SER:O	1:3:680:VAL:HG22	2.04	0.56
1:4:413:TYR:OH	1:4:641:HIS:O	2.23	0.56
1:F:522:ALA:HB1	1:F:609:ARG:HB2	1.86	0.56
1:H:715:ASP:CG	1:H:716:THR:H	2.13	0.56
1:I:287:PHE:CE1	1:I:684:TRP:HH2	2.24	0.56
1:J:240:ILE:HA	1:J:683:GLU:HA	1.88	0.56
1:L:287:PHE:HB2	1:L:613:LEU:HA	1.88	0.56
1:Q:326:ASN:O	1:Q:329:THR:OG1	2.19	0.56
1:S:698:ILE:O	1:T:701:THR:OG1	2.18	0.56
1:V:704:TYR:CG	1:V:705:ASN:N	2.73	0.56
1:W:524:ALA:HB1	1:W:572:ALA:HB2	1.87	0.56
1:X:416:GLU:OE1	1:X:416:GLU:N	2.28	0.56
1:a:308:PRO:HD3	1:a:637:PHE:CE2	2.40	0.56
1:a:689:GLU:HG3	1:a:731:LEU:HD13	1.88	0.56
1:c:287:PHE:CE1	1:c:684:TRP:HH2	2.24	0.56
1:c:451:PRO:HB2	1:c:453:GLY:O	2.06	0.56
1:f:545:GLN:OE1	1:f:545:GLN:N	2.34	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:689:GLU:HG3	1:f:731:LEU:HD13	1.88	0.56
1:g:447:ARG:HH12	1:g:450:THR:HG22	1.70	0.56
1:j:287:PHE:HB2	1:j:613:LEU:HA	1.88	0.56
1:k:326:ASN:O	1:k:329:THR:OG1	2.19	0.56
1:l:679:SER:O	1:l:680:VAL:HG22	2.04	0.56
1:m:308:PRO:HD3	1:m:637:PHE:CE2	2.40	0.56
1:o:689:GLU:HG3	1:o:731:LEU:HD13	1.88	0.56
1:q:416:GLU:CG	1:q:417:ASP:H	2.17	0.56
1:q:715:ASP:OD1	1:q:716:THR:N	2.39	0.56
1:s:451:PRO:HB2	1:s:453:GLY:O	2.06	0.56
1:u:416:GLU:OE1	1:u:416:GLU:N	2.28	0.56
1:u:524:ALA:HB1	1:u:572:ALA:HB2	1.87	0.56
1:v:679:SER:O	1:v:680:VAL:HG22	2.04	0.56
1:w:416:GLU:CG	1:w:417:ASP:H	2.17	0.56
1:y:704:TYR:CG	1:y:705:ASN:N	2.73	0.56
1:1:308:PRO:HD3	1:1:637:PHE:CE2	2.40	0.56
1:3:287:PHE:HB2	1:3:613:LEU:HA	1.88	0.56
1:3:451:PRO:HB2	1:3:453:GLY:O	2.06	0.56
1:5:625:ASP:OD1	1:5:625:ASP:N	2.23	0.56
1:6:522:ALA:HB1	1:6:609:ARG:HB2	1.86	0.56
1:7:308:PRO:HD3	1:7:637:PHE:CE2	2.40	0.56
1:A:240:ILE:HA	1:A:683:GLU:HA	1.88	0.56
1:A:447:ARG:HH12	1:A:450:THR:HG22	1.70	0.56
1:A:524:ALA:HB1	1:A:572:ALA:HB2	1.87	0.56
1:B:689:GLU:HG3	1:B:731:LEU:HD13	1.88	0.56
1:C:287:PHE:HB2	1:C:613:LEU:HA	1.88	0.56
1:C:451:PRO:HB2	1:C:453:GLY:O	2.06	0.56
1:D:287:PHE:CE1	1:D:684:TRP:HH2	2.24	0.56
1:F:451:PRO:HB2	1:F:453:GLY:O	2.06	0.56
1:G:287:PHE:HB2	1:G:613:LEU:HA	1.88	0.56
1:I:451:PRO:HB2	1:I:453:GLY:O	2.06	0.56
1:J:451:PRO:HB2	1:J:453:GLY:O	2.06	0.56
1:M:240:ILE:HA	1:M:683:GLU:HA	1.88	0.56
1:M:451:PRO:HB2	1:M:453:GLY:O	2.06	0.56
1:N:689:GLU:HG3	1:N:731:LEU:HD13	1.88	0.56
1:P:240:ILE:HA	1:P:683:GLU:HA	1.88	0.56
1:S:451:PRO:HB2	1:S:453:GLY:O	2.06	0.56
1:T:416:GLU:CG	1:T:417:ASP:H	2.17	0.56
1:T:679:SER:O	1:T:680:VAL:HG22	2.05	0.56
1:V:416:GLU:CG	1:V:417:ASP:H	2.18	0.56
1:W:715:ASP:OD1	1:W:716:THR:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:240:ILE:HA	1:X:683:GLU:HA	1.88	0.56
1:Z:240:ILE:HA	1:Z:683:GLU:HA	1.88	0.56
1:Z:451:PRO:HB2	1:Z:453:GLY:O	2.06	0.56
1:b:689:GLU:HG3	1:b:731:LEU:HD13	1.88	0.56
1:e:247:TRP:NE1	1:e:677:GLN:O	2.34	0.56
1:g:287:PHE:CE1	1:g:684:TRP:HH2	2.24	0.56
1:k:240:ILE:HA	1:k:683:GLU:HA	1.88	0.56
1:k:704:TYR:CG	1:k:705:ASN:N	2.73	0.56
1:l:447:ARG:HH12	1:l:450:THR:HG22	1.70	0.56
1:m:451:PRO:HB2	1:m:453:GLY:O	2.06	0.56
1:o:240:ILE:HA	1:o:683:GLU:HA	1.88	0.56
1:o:447:ARG:HH12	1:o:450:THR:HG22	1.70	0.56
1:o:524:ALA:HB1	1:o:572:ALA:HB2	1.87	0.56
1:p:287:PHE:HB2	1:p:613:LEU:HA	1.88	0.56
1:p:715:ASP:CG	1:p:716:THR:H	2.13	0.56
1:q:524:ALA:HB1	1:q:572:ALA:HB2	1.87	0.56
1:s:715:ASP:CG	1:s:716:THR:H	2.13	0.56
1:t:689:GLU:HG3	1:t:731:LEU:HD13	1.88	0.56
1:u:287:PHE:HB2	1:u:613:LEU:HA	1.88	0.56
1:w:247:TRP:NE1	1:w:677:GLN:O	2.34	0.56
1:x:326:ASN:O	1:x:329:THR:OG1	2.19	0.56
1:x:689:GLU:HG3	1:x:731:LEU:HD13	1.88	0.56
1:z:679:SER:O	1:z:680:VAL:HG22	2.04	0.56
1:1:679:SER:O	1:1:680:VAL:HG22	2.04	0.56
1:2:240:ILE:HA	1:2:683:GLU:HA	1.88	0.56
1:2:257:TYR:OH	1:2:394:CYS:O	2.21	0.56
1:4:240:ILE:HA	1:4:683:GLU:HA	1.88	0.56
1:4:449:ASN:O	1:4:450:THR:OG1	2.20	0.56
1:7:413:TYR:OH	1:7:641:HIS:O	2.23	0.56
1:8:240:ILE:HA	1:8:683:GLU:HA	1.88	0.56
1:F:715:ASP:CG	1:F:716:THR:H	2.13	0.56
1:H:240:ILE:HA	1:H:683:GLU:HA	1.88	0.56
1:K:287:PHE:CE1	1:K:684:TRP:HH2	2.24	0.56
1:K:715:ASP:CG	1:K:716:THR:H	2.13	0.56
1:L:451:PRO:HB2	1:L:453:GLY:O	2.06	0.56
1:M:447:ARG:HH12	1:M:450:THR:HG22	1.70	0.56
1:N:698:ILE:O	1:O:701:THR:OG1	2.18	0.56
1:Q:625:ASP:OD1	1:Q:625:ASP:N	2.23	0.56
1:T:308:PRO:HD3	1:T:637:PHE:CE2	2.40	0.56
1:U:451:PRO:HB2	1:U:453:GLY:O	2.06	0.56
1:U:679:SER:O	1:U:680:VAL:HG22	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:437:LEU:HD13	1:e:374:GLN:NE2	2.20	0.56
1:W:416:GLU:CG	1:W:417:ASP:H	2.17	0.56
1:Y:451:PRO:HB2	1:Y:453:GLY:O	2.06	0.56
1:Z:308:PRO:HD3	1:Z:637:PHE:CE2	2.40	0.56
1:Z:524:ALA:HB1	1:Z:572:ALA:HB2	1.87	0.56
1:a:715:ASP:CG	1:a:716:THR:H	2.13	0.56
1:d:240:ILE:HA	1:d:683:GLU:HA	1.88	0.56
1:d:257:TYR:OH	1:d:394:CYS:O	2.21	0.56
1:d:715:ASP:OD1	1:d:716:THR:N	2.38	0.56
1:e:701:THR:OG1	1:f:698:ILE:O	2.19	0.56
1:f:287:PHE:HB2	1:f:613:LEU:HA	1.88	0.56
1:g:451:PRO:HB2	1:g:453:GLY:O	2.06	0.56
1:h:240:ILE:HA	1:h:683:GLU:HA	1.88	0.56
1:h:704:TYR:CG	1:h:705:ASN:N	2.73	0.56
1:i:287:PHE:CE1	1:i:684:TRP:HH2	2.24	0.56
1:i:447:ARG:HH12	1:i:450:THR:HG22	1.70	0.56
1:j:545:GLN:OE1	1:j:545:GLN:N	2.34	0.56
1:m:240:ILE:HA	1:m:683:GLU:HA	1.88	0.56
1:n:715:ASP:OD1	1:n:716:THR:N	2.39	0.56
1:r:451:PRO:HB2	1:r:453:GLY:O	2.06	0.56
1:u:451:PRO:HB2	1:u:453:GLY:O	2.06	0.56
1:v:287:PHE:CE1	1:v:684:TRP:HH2	2.24	0.56
1:v:413:TYR:OH	1:v:641:HIS:O	2.23	0.56
1:x:240:ILE:HA	1:x:683:GLU:HA	1.88	0.56
1:y:287:PHE:HB2	1:y:613:LEU:HA	1.88	0.56
1:z:447:ARG:HH12	1:z:450:THR:HG22	1.70	0.56
1:1:416:GLU:CG	1:1:417:ASP:H	2.17	0.56
1:6:451:PRO:HB2	1:6:453:GLY:O	2.06	0.56
1:6:715:ASP:CG	1:6:716:THR:H	2.13	0.56
1:C:350:LEU:HG	1:C:351:PRO:HD2	1.88	0.56
1:D:715:ASP:CG	1:D:716:THR:H	2.13	0.56
1:E:350:LEU:HG	1:E:351:PRO:HD2	1.88	0.56
1:E:413:TYR:OH	1:E:641:HIS:O	2.23	0.56
1:G:689:GLU:HG3	1:G:731:LEU:HD13	1.88	0.56
1:H:437:LEU:HD13	1:W:374:GLN:NE2	2.20	0.56
1:J:689:GLU:HG3	1:J:731:LEU:HD13	1.88	0.56
1:L:350:LEU:HG	1:L:351:PRO:HD2	1.88	0.56
1:M:449:ASN:O	1:M:450:THR:OG1	2.20	0.56
1:M:524:ALA:HB1	1:M:572:ALA:HB2	1.87	0.56
1:N:437:LEU:HD13	1:P:374:GLN:NE2	2.20	0.56
1:R:287:PHE:CE1	1:R:684:TRP:HH2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:689:GLU:HG3	1:R:731:LEU:HD13	1.88	0.56
1:S:287:PHE:HB2	1:S:613:LEU:HA	1.88	0.56
1:S:715:ASP:CG	1:S:716:THR:H	2.13	0.56
1:T:689:GLU:HG3	1:T:731:LEU:HD13	1.88	0.56
1:U:287:PHE:CE1	1:U:684:TRP:HH2	2.24	0.56
1:V:287:PHE:HB2	1:V:613:LEU:HA	1.88	0.56
1:X:689:GLU:HG3	1:X:731:LEU:HD13	1.88	0.56
1:b:361:CYS:SG	1:b:362:LEU:N	2.72	0.56
1:d:287:PHE:CE1	1:d:684:TRP:HH2	2.24	0.56
1:f:437:LEU:HD13	1:h:374:GLN:NE2	2.20	0.56
1:g:247:TRP:NE1	1:g:677:GLN:O	2.34	0.56
1:i:416:GLU:CG	1:i:417:ASP:H	2.17	0.56
1:i:451:PRO:HB2	1:i:453:GLY:O	2.06	0.56
1:j:437:LEU:HD13	1:k:374:GLN:NE2	2.20	0.56
1:k:287:PHE:CE1	1:k:617:ILE:HG12	2.41	0.56
1:m:524:ALA:HB1	1:m:572:ALA:HB2	1.87	0.56
1:n:287:PHE:HB2	1:n:613:LEU:HA	1.88	0.56
1:n:524:ALA:HB1	1:n:572:ALA:HB2	1.87	0.56
1:r:240:ILE:HA	1:r:683:GLU:HA	1.88	0.56
1:r:689:GLU:HG3	1:r:731:LEU:HD13	1.88	0.56
1:s:240:ILE:HA	1:s:683:GLU:HA	1.88	0.56
1:t:524:ALA:HB1	1:t:572:ALA:HB2	1.87	0.56
1:t:704:TYR:CG	1:t:705:ASN:N	2.73	0.56
1:u:287:PHE:CE1	1:u:617:ILE:HG12	2.41	0.56
1:v:451:PRO:HB2	1:v:453:GLY:O	2.06	0.56
1:y:413:TYR:OH	1:y:641:HIS:O	2.23	0.56
1:1:689:GLU:HG3	1:1:731:LEU:HD13	1.88	0.56
1:4:287:PHE:HB2	1:4:613:LEU:HA	1.88	0.56
1:4:524:ALA:HB1	1:4:572:ALA:HB2	1.87	0.56
1:4:715:ASP:OD1	1:4:716:THR:N	2.39	0.56
1:7:350:LEU:HG	1:7:351:PRO:HD2	1.88	0.56
1:C:287:PHE:CE1	1:C:684:TRP:HH2	2.24	0.56
1:D:416:GLU:CG	1:D:417:ASP:H	2.17	0.56
1:E:416:GLU:CG	1:E:417:ASP:H	2.17	0.56
1:E:451:PRO:HB2	1:E:453:GLY:O	2.06	0.56
1:E:715:ASP:OD1	1:E:716:THR:N	2.39	0.56
1:G:524:ALA:HB1	1:G:572:ALA:HB2	1.87	0.56
1:H:287:PHE:HB2	1:H:613:LEU:HA	1.88	0.56
1:J:524:ALA:HB1	1:J:572:ALA:HB2	1.87	0.56
1:N:715:ASP:CG	1:N:716:THR:H	2.13	0.56
1:P:447:ARG:HH12	1:P:450:THR:HG22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:326:ASN:O	1:R:329:THR:OG1	2.19	0.56
1:R:524:ALA:HB1	1:R:572:ALA:HB2	1.87	0.56
1:U:413:TYR:OH	1:U:641:HIS:O	2.23	0.56
1:V:413:TYR:OH	1:V:641:HIS:O	2.24	0.56
1:W:689:GLU:HG3	1:W:731:LEU:HD13	1.88	0.56
1:Y:240:ILE:HA	1:Y:683:GLU:HA	1.88	0.56
1:Y:287:PHE:CE1	1:Y:617:ILE:HG12	2.41	0.56
1:Y:350:LEU:HG	1:Y:351:PRO:HD2	1.88	0.56
1:Y:689:GLU:HG3	1:Y:731:LEU:HD13	1.88	0.56
1:Z:715:ASP:OD1	1:Z:716:THR:N	2.39	0.56
1:a:240:ILE:HA	1:a:683:GLU:HA	1.88	0.56
1:d:715:ASP:CG	1:d:716:THR:H	2.13	0.56
1:e:416:GLU:CG	1:e:417:ASP:H	2.18	0.56
1:e:447:ARG:HH12	1:e:450:THR:HG22	1.70	0.56
1:f:416:GLU:CG	1:f:417:ASP:H	2.18	0.56
1:h:287:PHE:CE1	1:h:617:ILE:HG12	2.41	0.56
1:l:287:PHE:CE1	1:l:617:ILE:HG12	2.41	0.56
1:m:413:TYR:OH	1:m:641:HIS:O	2.23	0.56
1:n:240:ILE:HA	1:n:683:GLU:HA	1.88	0.56
1:r:287:PHE:CE1	1:r:617:ILE:HG12	2.41	0.56
1:r:350:LEU:HG	1:r:351:PRO:HD2	1.88	0.56
1:t:451:PRO:HB2	1:t:453:GLY:O	2.06	0.56
1:u:715:ASP:CG	1:u:716:THR:H	2.13	0.56
1:w:447:ARG:HH12	1:w:450:THR:HG22	1.70	0.56
1:x:416:GLU:CG	1:x:417:ASP:H	2.18	0.56
1:z:287:PHE:CE1	1:z:617:ILE:HG12	2.41	0.56
1:z:287:PHE:CE1	1:z:684:TRP:HH2	2.24	0.56
1:2:715:ASP:OD1	1:2:716:THR:N	2.38	0.56
1:5:287:PHE:HB2	1:5:613:LEU:HA	1.88	0.56
1:6:287:PHE:HB2	1:6:613:LEU:HA	1.87	0.56
1:7:451:PRO:HB2	1:7:453:GLY:O	2.06	0.56
1:8:447:ARG:HH12	1:8:450:THR:HG22	1.70	0.56
1:A:413:TYR:OH	1:A:641:HIS:O	2.24	0.55
1:A:451:PRO:HB2	1:A:453:GLY:O	2.06	0.55
1:B:374:GLN:NE2	1:L:437:LEU:HD13	2.20	0.55
1:C:437:LEU:HD13	1:b:374:GLN:NE2	2.20	0.55
1:C:524:ALA:HB1	1:C:572:ALA:HB2	1.87	0.55
1:C:715:ASP:CG	1:C:716:THR:H	2.13	0.55
1:D:287:PHE:HB2	1:D:613:LEU:HA	1.87	0.55
1:E:447:ARG:HH12	1:E:450:THR:HG22	1.70	0.55
1:F:287:PHE:HB2	1:F:613:LEU:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:416:GLU:CG	1:K:417:ASP:H	2.17	0.55
1:L:524:ALA:HB1	1:L:572:ALA:HB2	1.87	0.55
1:M:689:GLU:HG3	1:M:731:LEU:HD13	1.88	0.55
1:N:287:PHE:CE1	1:N:684:TRP:HH2	2.23	0.55
1:N:451:PRO:HB2	1:N:453:GLY:O	2.06	0.55
1:N:554:ILE:O	1:N:557:VAL:HG22	2.07	0.55
1:Q:287:PHE:HB2	1:Q:613:LEU:HA	1.88	0.55
1:Q:413:TYR:OH	1:Q:641:HIS:O	2.23	0.55
1:R:451:PRO:HB2	1:R:453:GLY:O	2.06	0.55
1:R:704:TYR:CG	1:R:705:ASN:N	2.73	0.55
1:S:287:PHE:CE1	1:S:617:ILE:HG12	2.42	0.55
1:U:287:PHE:CE1	1:U:617:ILE:HG12	2.41	0.55
1:W:350:LEU:HG	1:W:351:PRO:HD2	1.88	0.55
1:X:287:PHE:CE1	1:X:617:ILE:HG12	2.42	0.55
1:X:416:GLU:CG	1:X:417:ASP:H	2.17	0.55
1:Y:524:ALA:HB1	1:Y:572:ALA:HB2	1.87	0.55
1:Y:698:ILE:O	1:Z:701:THR:OG1	2.18	0.55
1:Y:701:THR:OG1	1:Z:698:ILE:O	2.18	0.55
1:a:451:PRO:HB2	1:a:453:GLY:O	2.06	0.55
1:b:287:PHE:CE1	1:b:684:TRP:HH2	2.24	0.55
1:b:524:ALA:HB1	1:b:572:ALA:HB2	1.87	0.55
1:d:350:LEU:HG	1:d:351:PRO:HD2	1.88	0.55
1:e:524:ALA:HB1	1:e:572:ALA:HB2	1.87	0.55
1:f:287:PHE:CE1	1:f:617:ILE:HG12	2.42	0.55
1:g:416:GLU:CG	1:g:417:ASP:H	2.17	0.55
1:g:429:SER:OG	1:g:431:ASP:OD1	2.18	0.55
1:i:715:ASP:OD1	1:i:716:THR:N	2.39	0.55
1:j:257:TYR:OH	1:j:394:CYS:O	2.21	0.55
1:l:287:PHE:CE1	1:l:684:TRP:HH2	2.24	0.55
1:n:554:ILE:O	1:n:557:VAL:HG22	2.07	0.55
1:p:524:ALA:HB1	1:p:572:ALA:HB2	1.87	0.55
1:p:689:GLU:HG3	1:p:731:LEU:HD13	1.88	0.55
1:q:287:PHE:CE1	1:q:684:TRP:HH2	2.23	0.55
1:q:350:LEU:HG	1:q:351:PRO:HD2	1.88	0.55
1:q:689:GLU:HG3	1:q:731:LEU:HD13	1.88	0.55
1:r:429:SER:OG	1:r:431:ASP:OD1	2.18	0.55
1:r:554:ILE:O	1:r:557:VAL:HG22	2.07	0.55
1:t:287:PHE:CE1	1:t:684:TRP:HH2	2.24	0.55
1:v:287:PHE:CE1	1:v:617:ILE:HG12	2.41	0.55
1:w:240:ILE:HA	1:w:683:GLU:HA	1.88	0.55
1:w:524:ALA:HB1	1:w:572:ALA:HB2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:287:PHE:CE1	1:y:684:TRP:HH2	2.23	0.55
1:2:287:PHE:CE1	1:2:684:TRP:HH2	2.24	0.55
1:2:350:LEU:HG	1:2:351:PRO:HD2	1.88	0.55
1:8:287:PHE:CE1	1:8:617:ILE:HG12	2.41	0.55
1:8:524:ALA:HB1	1:8:572:ALA:HB2	1.87	0.55
1:B:287:PHE:CE1	1:B:684:TRP:HH2	2.24	0.55
1:B:524:ALA:HB1	1:B:572:ALA:HB2	1.87	0.55
1:C:240:ILE:HA	1:C:683:GLU:HA	1.88	0.55
1:G:287:PHE:CE1	1:G:617:ILE:HG12	2.41	0.55
1:H:287:PHE:CE1	1:H:684:TRP:HH2	2.24	0.55
1:I:326:ASN:O	1:I:329:THR:OG1	2.19	0.55
1:J:715:ASP:CG	1:J:716:THR:H	2.13	0.55
1:L:287:PHE:CE1	1:L:684:TRP:HH2	2.24	0.55
1:L:715:ASP:CG	1:L:716:THR:H	2.13	0.55
1:N:240:ILE:HA	1:N:683:GLU:HA	1.88	0.55
1:P:287:PHE:CE1	1:P:617:ILE:HG12	2.41	0.55
1:R:554:ILE:O	1:R:557:VAL:HG22	2.07	0.55
1:T:437:LEU:HD13	1:d:374:GLN:NE2	2.21	0.55
1:U:689:GLU:HG3	1:U:731:LEU:HD13	1.88	0.55
1:V:287:PHE:CE1	1:V:684:TRP:HH2	2.24	0.55
1:Y:429:SER:OG	1:Y:431:ASP:OD1	2.18	0.55
1:Y:554:ILE:O	1:Y:557:VAL:HG22	2.07	0.55
1:a:287:PHE:CE1	1:a:684:TRP:HH2	2.24	0.55
1:a:554:ILE:O	1:a:557:VAL:HG22	2.07	0.55
1:c:326:ASN:O	1:c:329:THR:OG1	2.19	0.55
1:c:492:SER:O	1:p:458:SER:OG	2.20	0.55
1:e:240:ILE:HA	1:e:683:GLU:HA	1.88	0.55
1:e:287:PHE:CE1	1:e:684:TRP:HH2	2.24	0.55
1:g:698:ILE:O	1:z:701:THR:OG1	2.23	0.55
1:g:715:ASP:OD1	1:g:716:THR:N	2.38	0.55
1:h:350:LEU:HG	1:h:351:PRO:HD2	1.88	0.55
1:i:247:TRP:NE1	1:i:677:GLN:O	2.34	0.55
1:j:287:PHE:CE1	1:j:617:ILE:HG12	2.42	0.55
1:k:350:LEU:HG	1:k:351:PRO:HD2	1.88	0.55
1:o:247:TRP:NE1	1:o:677:GLN:O	2.34	0.55
1:o:451:PRO:HB2	1:o:453:GLY:O	2.06	0.55
1:q:704:TYR:CG	1:q:705:ASN:N	2.73	0.55
1:r:524:ALA:HB1	1:r:572:ALA:HB2	1.87	0.55
1:s:287:PHE:HB2	1:s:613:LEU:HA	1.88	0.55
1:t:554:ILE:O	1:t:557:VAL:HG22	2.07	0.55
1:w:287:PHE:CE1	1:w:684:TRP:HH2	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:374:GLN:NE2	1:y:437:LEU:HD13	2.20	0.55
1:x:287:PHE:CE1	1:x:617:ILE:HG12	2.42	0.55
1:2:715:ASP:CG	1:2:716:THR:H	2.13	0.55
1:4:554:ILE:O	1:4:557:VAL:HG22	2.07	0.55
1:5:287:PHE:CE1	1:5:684:TRP:HH2	2.24	0.55
1:6:689:GLU:HG3	1:6:731:LEU:HD13	1.88	0.55
1:7:715:ASP:OD1	1:7:716:THR:N	2.39	0.55
1:A:554:ILE:O	1:A:557:VAL:HG22	2.07	0.55
1:C:554:ILE:O	1:C:557:VAL:HG22	2.07	0.55
1:D:689:GLU:HG3	1:D:731:LEU:HD13	1.88	0.55
1:E:287:PHE:CE1	1:E:617:ILE:HG12	2.41	0.55
1:F:689:GLU:HG3	1:F:731:LEU:HD13	1.88	0.55
1:G:350:LEU:HG	1:G:351:PRO:HD2	1.88	0.55
1:G:447:ARG:HH12	1:G:450:THR:HG22	1.70	0.55
1:H:554:ILE:O	1:H:557:VAL:HG22	2.06	0.55
1:J:413:TYR:OH	1:J:641:HIS:O	2.23	0.55
1:K:287:PHE:CE1	1:K:617:ILE:HG12	2.41	0.55
1:K:689:GLU:HG3	1:K:731:LEU:HD13	1.88	0.55
1:L:554:ILE:O	1:L:557:VAL:HG22	2.07	0.55
1:L:689:GLU:HG3	1:L:731:LEU:HD13	1.88	0.55
1:M:287:PHE:CE1	1:M:617:ILE:HG12	2.41	0.55
1:O:240:ILE:HA	1:O:683:GLU:HA	1.88	0.55
1:P:524:ALA:HB1	1:P:572:ALA:HB2	1.87	0.55
1:Q:287:PHE:CE1	1:Q:684:TRP:HH2	2.24	0.55
1:U:343:PHE:CD1	1:U:344:THR:N	2.75	0.55
1:V:350:LEU:HG	1:V:351:PRO:HD2	1.88	0.55
1:W:704:TYR:CG	1:W:705:ASN:N	2.73	0.55
1:Y:287:PHE:HB2	1:Y:613:LEU:HA	1.88	0.55
1:Z:413:TYR:OH	1:Z:641:HIS:O	2.23	0.55
1:d:343:PHE:CD1	1:d:344:THR:N	2.75	0.55
1:g:554:ILE:O	1:g:557:VAL:HG22	2.07	0.55
1:h:413:TYR:OH	1:h:641:HIS:O	2.23	0.55
1:i:287:PHE:CE1	1:i:617:ILE:HG12	2.41	0.55
1:k:451:PRO:HB2	1:k:453:GLY:O	2.06	0.55
1:l:524:ALA:HB1	1:l:572:ALA:HB2	1.87	0.55
1:o:554:ILE:O	1:o:557:VAL:HG22	2.07	0.55
1:p:287:PHE:CE1	1:p:617:ILE:HG12	2.41	0.55
1:p:350:LEU:HG	1:p:351:PRO:HD2	1.89	0.55
1:s:287:PHE:CE1	1:s:684:TRP:HH2	2.24	0.55
1:v:524:ALA:HB1	1:v:572:ALA:HB2	1.87	0.55
1:v:689:GLU:HG3	1:v:731:LEU:HD13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:416:GLU:OE1	1:w:416:GLU:N	2.28	0.55
1:z:524:ALA:HB1	1:z:572:ALA:HB2	1.87	0.55
1:5:413:TYR:OH	1:5:641:HIS:O	2.23	0.55
1:7:287:PHE:CE1	1:7:617:ILE:HG12	2.41	0.55
1:7:416:GLU:CG	1:7:417:ASP:H	2.18	0.55
1:8:554:ILE:O	1:8:557:VAL:HG22	2.07	0.55
1:A:247:TRP:NE1	1:A:677:GLN:O	2.34	0.55
1:B:343:PHE:CD1	1:B:344:THR:N	2.75	0.55
1:B:451:PRO:HB2	1:B:453:GLY:O	2.06	0.55
1:E:343:PHE:CD1	1:E:344:THR:N	2.75	0.55
1:E:416:GLU:OE1	1:E:416:GLU:N	2.28	0.55
1:H:287:PHE:CE1	1:H:617:ILE:HG12	2.42	0.55
1:I:287:PHE:CE1	1:I:617:ILE:HG12	2.41	0.55
1:J:287:PHE:CE1	1:J:617:ILE:HG12	2.41	0.55
1:K:451:PRO:HB2	1:K:453:GLY:O	2.06	0.55
1:L:240:ILE:HA	1:L:683:GLU:HA	1.88	0.55
1:M:715:ASP:CG	1:M:716:THR:H	2.13	0.55
1:O:447:ARG:HH12	1:O:450:THR:HG22	1.70	0.55
1:P:554:ILE:O	1:P:557:VAL:HG22	2.07	0.55
1:T:451:PRO:HB2	1:T:453:GLY:O	2.06	0.55
1:U:554:ILE:O	1:U:557:VAL:HG22	2.07	0.55
1:V:287:PHE:CE1	1:V:617:ILE:HG12	2.41	0.55
1:V:554:ILE:O	1:V:557:VAL:HG22	2.07	0.55
1:W:287:PHE:CE1	1:W:684:TRP:HH2	2.24	0.55
1:W:715:ASP:CG	1:W:716:THR:H	2.13	0.55
1:Y:715:ASP:OD1	1:Y:716:THR:N	2.38	0.55
1:b:451:PRO:HB2	1:b:453:GLY:O	2.06	0.55
1:d:287:PHE:CE1	1:d:617:ILE:HG12	2.41	0.55
1:e:350:LEU:HG	1:e:351:PRO:HD2	1.89	0.55
1:f:715:ASP:CG	1:f:716:THR:H	2.13	0.55
1:g:287:PHE:CE1	1:g:617:ILE:HG12	2.42	0.55
1:g:343:PHE:CD1	1:g:344:THR:N	2.75	0.55
1:i:240:ILE:HA	1:i:683:GLU:HA	1.88	0.55
1:i:343:PHE:CD1	1:i:344:THR:N	2.75	0.55
1:i:429:SER:OG	1:i:431:ASP:OD1	2.18	0.55
1:k:524:ALA:HB1	1:k:572:ALA:HB2	1.87	0.55
1:m:343:PHE:CD1	1:m:344:THR:N	2.75	0.55
1:m:698:ILE:O	1:r:701:THR:OG1	2.18	0.55
1:n:343:PHE:CD1	1:n:344:THR:N	2.75	0.55
1:o:437:LEU:HD13	1:p:374:GLN:NE2	2.22	0.55
1:o:701:THR:OG1	1:6:698:ILE:O	2.19	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:715:ASP:CG	1:q:716:THR:H	2.13	0.55
1:r:715:ASP:OD1	1:r:716:THR:N	2.39	0.55
1:s:287:PHE:CE1	1:s:617:ILE:HG12	2.41	0.55
1:s:554:ILE:O	1:s:557:VAL:HG22	2.06	0.55
1:v:343:PHE:CD1	1:v:344:THR:N	2.75	0.55
1:v:554:ILE:O	1:v:557:VAL:HG22	2.07	0.55
1:w:350:LEU:HG	1:w:351:PRO:HD2	1.89	0.55
1:w:689:GLU:HG3	1:w:731:LEU:HD13	1.88	0.55
1:y:451:PRO:HB2	1:y:453:GLY:O	2.06	0.55
1:y:554:ILE:O	1:y:557:VAL:HG22	2.07	0.55
1:z:240:ILE:HA	1:z:683:GLU:HA	1.88	0.55
1:1:451:PRO:HB2	1:1:453:GLY:O	2.06	0.55
1:3:350:LEU:HG	1:3:351:PRO:HD2	1.88	0.55
1:4:343:PHE:CD1	1:4:344:THR:N	2.75	0.55
1:5:451:PRO:HB2	1:5:453:GLY:O	2.06	0.55
1:7:343:PHE:CD1	1:7:344:THR:N	2.75	0.55
1:7:447:ARG:HH12	1:7:450:THR:HG22	1.70	0.55
1:A:701:THR:OG1	1:F:698:ILE:O	2.19	0.55
1:B:447:ARG:HH12	1:B:450:THR:HG22	1.70	0.55
1:C:689:GLU:HG3	1:C:731:LEU:HD13	1.88	0.55
1:D:437:LEU:HD13	1:N:374:GLN:NE2	2.20	0.55
1:D:451:PRO:HB2	1:D:453:GLY:O	2.06	0.55
1:E:554:ILE:O	1:E:557:VAL:HG22	2.06	0.55
1:F:554:ILE:O	1:F:557:VAL:HG22	2.07	0.55
1:G:287:PHE:CE1	1:G:684:TRP:HH2	2.23	0.55
1:K:287:PHE:HB2	1:K:613:LEU:HA	1.88	0.55
1:K:437:LEU:HD13	1:a:374:GLN:NE2	2.20	0.55
1:O:350:LEU:HG	1:O:351:PRO:HD2	1.89	0.55
1:O:581:THR:N	1:O:591:ALA:O	2.37	0.55
1:V:451:PRO:HB2	1:V:453:GLY:O	2.06	0.55
1:W:343:PHE:CD1	1:W:344:THR:N	2.75	0.55
1:W:554:ILE:O	1:W:557:VAL:HG22	2.07	0.55
1:X:350:LEU:HG	1:X:351:PRO:HD2	1.89	0.55
1:b:343:PHE:CD1	1:b:344:THR:N	2.75	0.55
1:c:287:PHE:HB2	1:c:613:LEU:HA	1.88	0.55
1:c:499:GLU:HA	1:p:448:THR:HG23	1.88	0.55
1:e:287:PHE:HB2	1:e:613:LEU:HA	1.88	0.55
1:e:413:TYR:OH	1:e:641:HIS:O	2.23	0.55
1:g:240:ILE:HA	1:g:683:GLU:HA	1.88	0.55
1:g:715:ASP:CG	1:g:716:THR:H	2.13	0.55
1:h:287:PHE:CE1	1:h:684:TRP:HH2	2.24	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:451:PRO:HB2	1:h:453:GLY:O	2.06	0.55
1:h:524:ALA:HB1	1:h:572:ALA:HB2	1.87	0.55
1:h:715:ASP:OD1	1:h:716:THR:N	2.38	0.55
1:i:554:ILE:O	1:i:557:VAL:HG22	2.07	0.55
1:j:343:PHE:CD1	1:j:344:THR:N	2.75	0.55
1:j:715:ASP:CG	1:j:716:THR:H	2.13	0.55
1:k:413:TYR:OH	1:k:641:HIS:O	2.23	0.55
1:k:715:ASP:OD1	1:k:716:THR:N	2.39	0.55
1:l:240:ILE:HA	1:l:683:GLU:HA	1.88	0.55
1:l:416:GLU:CG	1:l:417:ASP:H	2.17	0.55
1:m:350:LEU:HG	1:m:351:PRO:HD2	1.88	0.55
1:p:447:ARG:HH12	1:p:450:THR:HG22	1.70	0.55
1:q:343:PHE:CD1	1:q:344:THR:N	2.75	0.55
1:q:701:THR:OG1	1:x:698:ILE:O	2.18	0.55
1:r:287:PHE:HB2	1:r:613:LEU:HA	1.88	0.55
1:t:413:TYR:OH	1:t:641:HIS:O	2.23	0.55
1:u:343:PHE:CD1	1:u:344:THR:N	2.75	0.55
1:w:287:PHE:HB2	1:w:613:LEU:HA	1.88	0.55
1:x:350:LEU:HG	1:x:351:PRO:HD2	1.89	0.55
1:y:287:PHE:CE1	1:y:617:ILE:HG12	2.42	0.55
1:y:350:LEU:HG	1:y:351:PRO:HD2	1.89	0.55
1:2:343:PHE:CD1	1:2:344:THR:N	2.75	0.55
1:3:240:ILE:HA	1:3:683:GLU:HA	1.88	0.55
1:5:343:PHE:CD1	1:5:344:THR:N	2.75	0.55
1:5:545:GLN:OE1	1:5:545:GLN:N	2.34	0.55
1:7:287:PHE:CE1	1:7:684:TRP:HH2	2.24	0.55
1:B:247:TRP:NE1	1:B:677:GLN:O	2.34	0.55
1:B:361:CYS:SG	1:B:362:LEU:N	2.72	0.55
1:C:287:PHE:CE1	1:C:617:ILE:HG12	2.41	0.55
1:D:287:PHE:CE1	1:D:617:ILE:HG12	2.42	0.55
1:E:287:PHE:CE1	1:E:684:TRP:HH2	2.24	0.55
1:G:554:ILE:O	1:G:557:VAL:HG22	2.07	0.55
1:I:287:PHE:HB2	1:I:613:LEU:HA	1.88	0.55
1:I:343:PHE:CD1	1:I:344:THR:N	2.75	0.55
1:J:609:ARG:HG2	1:J:610:ASP:N	2.22	0.55
1:M:609:ARG:HG2	1:M:610:ASP:N	2.22	0.55
1:P:287:PHE:HB2	1:P:613:LEU:HA	1.88	0.55
1:Q:343:PHE:CD1	1:Q:344:THR:N	2.75	0.55
1:Q:451:PRO:HB2	1:Q:453:GLY:O	2.06	0.55
1:Q:715:ASP:CG	1:Q:716:THR:H	2.13	0.55
1:S:343:PHE:CD1	1:S:344:THR:N	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:416:GLU:HG2	1:S:417:ASP:N	2.15	0.55
1:S:447:ARG:HH12	1:S:450:THR:HG22	1.70	0.55
1:U:524:ALA:HB1	1:U:572:ALA:HB2	1.87	0.55
1:V:545:GLN:OE1	1:V:545:GLN:N	2.34	0.55
1:X:287:PHE:HB2	1:X:613:LEU:HA	1.88	0.55
1:X:554:ILE:O	1:X:557:VAL:HG22	2.06	0.55
1:Y:287:PHE:CE1	1:Y:684:TRP:HH2	2.24	0.55
1:Z:343:PHE:CD1	1:Z:344:THR:N	2.75	0.55
1:Z:350:LEU:HG	1:Z:351:PRO:HD2	1.89	0.55
1:b:447:ARG:HH12	1:b:450:THR:HG22	1.70	0.55
1:c:287:PHE:CE1	1:c:617:ILE:HG12	2.42	0.55
1:c:343:PHE:CD1	1:c:344:THR:N	2.75	0.55
1:d:451:PRO:HB2	1:d:453:GLY:O	2.06	0.55
1:e:689:GLU:HG3	1:e:731:LEU:HD13	1.88	0.55
1:f:343:PHE:CD1	1:f:344:THR:N	2.75	0.55
1:f:554:ILE:O	1:f:557:VAL:HG22	2.07	0.55
1:h:343:PHE:CD1	1:h:344:THR:N	2.75	0.55
1:i:715:ASP:CG	1:i:716:THR:H	2.13	0.55
1:j:554:ILE:O	1:j:557:VAL:HG22	2.07	0.55
1:k:343:PHE:CD1	1:k:344:THR:N	2.75	0.55
1:l:451:PRO:HB2	1:l:453:GLY:O	2.06	0.55
1:l:554:ILE:O	1:l:557:VAL:HG22	2.07	0.55
1:o:545:GLN:OE1	1:o:545:GLN:N	2.34	0.55
1:p:554:ILE:O	1:p:557:VAL:HG22	2.07	0.55
1:q:554:ILE:O	1:q:557:VAL:HG22	2.07	0.55
1:r:287:PHE:CE1	1:r:684:TRP:HH2	2.24	0.55
1:t:715:ASP:CG	1:t:716:THR:H	2.13	0.55
1:u:437:LEU:HD13	1:v:374:GLN:NE2	2.20	0.55
1:u:447:ARG:HH12	1:u:450:THR:HG22	1.70	0.55
1:u:698:ILE:O	1:1:701:THR:OG1	2.19	0.55
1:x:287:PHE:HB2	1:x:613:LEU:HA	1.88	0.55
1:z:416:GLU:CG	1:z:417:ASP:H	2.18	0.55
1:z:451:PRO:HB2	1:z:453:GLY:O	2.06	0.55
1:z:554:ILE:O	1:z:557:VAL:HG22	2.07	0.55
1:1:287:PHE:HB2	1:1:613:LEU:HA	1.88	0.55
1:2:451:PRO:HB2	1:2:453:GLY:O	2.06	0.55
1:3:413:TYR:OH	1:3:641:HIS:O	2.23	0.55
1:3:447:ARG:HH12	1:3:450:THR:HG22	1.70	0.55
1:8:287:PHE:HB2	1:8:613:LEU:HA	1.87	0.55
1:8:581:THR:N	1:8:591:ALA:O	2.37	0.55
1:B:350:LEU:HG	1:B:351:PRO:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:416:GLU:OE1	1:C:416:GLU:N	2.28	0.55
1:C:609:ARG:HG2	1:C:610:ASP:N	2.22	0.55
1:D:240:ILE:HA	1:D:683:GLU:HA	1.88	0.55
1:H:343:PHE:CD1	1:H:344:THR:N	2.75	0.55
1:I:715:ASP:CG	1:I:716:THR:H	2.13	0.55
1:K:240:ILE:HA	1:K:683:GLU:HA	1.88	0.55
1:L:287:PHE:CE1	1:L:617:ILE:HG12	2.41	0.55
1:L:416:GLU:OE1	1:L:416:GLU:N	2.28	0.55
1:L:609:ARG:HG2	1:L:610:ASP:N	2.22	0.55
1:Q:287:PHE:CE1	1:Q:617:ILE:HG12	2.41	0.55
1:R:413:TYR:OH	1:R:641:HIS:O	2.23	0.55
1:R:715:ASP:CG	1:R:716:THR:H	2.13	0.55
1:U:287:PHE:HB2	1:U:613:LEU:HA	1.87	0.55
1:V:715:ASP:OD1	1:V:716:THR:N	2.39	0.55
1:b:350:LEU:HG	1:b:351:PRO:HD2	1.88	0.55
1:b:554:ILE:O	1:b:557:VAL:HG22	2.07	0.55
1:c:554:ILE:O	1:c:557:VAL:HG22	2.07	0.55
1:c:715:ASP:CG	1:c:716:THR:H	2.13	0.55
1:k:287:PHE:CE1	1:k:684:TRP:HH2	2.24	0.55
1:p:287:PHE:CE1	1:p:684:TRP:HH2	2.24	0.55
1:w:413:TYR:OH	1:w:641:HIS:O	2.24	0.55
1:w:545:GLN:OE1	1:w:545:GLN:N	2.34	0.55
1:y:545:GLN:OE1	1:y:545:GLN:N	2.34	0.55
1:y:689:GLU:HG3	1:y:731:LEU:HD13	1.88	0.55
1:y:715:ASP:OD1	1:y:716:THR:N	2.38	0.55
1:2:287:PHE:CE1	1:2:617:ILE:HG12	2.42	0.55
1:4:287:PHE:CE1	1:4:617:ILE:HG12	2.42	0.55
1:6:287:PHE:CE1	1:6:617:ILE:HG12	2.41	0.55
1:6:554:ILE:O	1:6:557:VAL:HG22	2.07	0.55
1:7:554:ILE:O	1:7:557:VAL:HG22	2.07	0.55
1:A:374:GLN:NE2	1:I:437:LEU:HD13	2.20	0.55
1:B:554:ILE:O	1:B:557:VAL:HG22	2.06	0.55
1:C:413:TYR:OH	1:C:641:HIS:O	2.23	0.55
1:D:701:THR:OG1	1:M:698:ILE:O	2.19	0.55
1:E:689:GLU:HG3	1:E:731:LEU:HD13	1.88	0.55
1:I:554:ILE:O	1:I:557:VAL:HG22	2.07	0.55
1:N:416:GLU:CG	1:N:417:ASP:H	2.17	0.55
1:O:343:PHE:CD1	1:O:344:THR:N	2.75	0.55
1:T:287:PHE:HB2	1:T:613:LEU:HA	1.88	0.55
1:U:326:ASN:O	1:U:329:THR:OG1	2.19	0.55
1:U:609:ARG:HG2	1:U:610:ASP:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:240:ILE:HA	1:V:683:GLU:HA	1.88	0.55
1:d:437:LEU:HD13	1:l:374:GLN:NE2	2.21	0.55
1:e:416:GLU:OE1	1:e:416:GLU:N	2.28	0.55
1:e:609:ARG:HG2	1:e:610:ASP:N	2.22	0.55
1:f:451:PRO:HB2	1:f:453:GLY:O	2.06	0.55
1:j:413:TYR:OH	1:j:641:HIS:O	2.23	0.55
1:n:287:PHE:CE1	1:n:617:ILE:HG12	2.42	0.55
1:o:287:PHE:CE1	1:o:617:ILE:HG12	2.41	0.55
1:p:240:ILE:HA	1:p:683:GLU:HA	1.88	0.55
1:p:609:ARG:HG2	1:p:610:ASP:N	2.22	0.55
1:s:343:PHE:CD1	1:s:344:THR:N	2.75	0.55
1:1:343:PHE:CD1	1:1:344:THR:N	2.75	0.55
1:3:554:ILE:O	1:3:557:VAL:HG22	2.07	0.55
1:3:581:THR:N	1:3:591:ALA:O	2.37	0.55
1:5:287:PHE:CE1	1:5:617:ILE:HG12	2.41	0.55
1:5:715:ASP:CG	1:5:716:THR:H	2.13	0.55
1:7:689:GLU:HG3	1:7:731:LEU:HD13	1.88	0.55
1:E:609:ARG:HG2	1:E:610:ASP:N	2.22	0.55
1:F:287:PHE:CE1	1:F:617:ILE:HG12	2.42	0.55
1:G:240:ILE:HA	1:G:683:GLU:HA	1.88	0.55
1:G:343:PHE:CD1	1:G:344:THR:N	2.75	0.55
1:G:609:ARG:HG2	1:G:610:ASP:N	2.22	0.55
1:J:545:GLN:OE1	1:J:545:GLN:N	2.34	0.55
1:M:343:PHE:CD1	1:M:344:THR:N	2.75	0.55
1:N:343:PHE:CD1	1:N:344:THR:N	2.75	0.55
1:O:554:ILE:O	1:O:557:VAL:HG22	2.07	0.55
1:Q:447:ARG:HH12	1:Q:450:THR:HG22	1.70	0.55
1:Q:545:GLN:OE1	1:Q:545:GLN:N	2.34	0.55
1:S:437:LEU:HD13	1:U:374:GLN:NE2	2.20	0.55
1:T:343:PHE:CD1	1:T:344:THR:N	2.75	0.55
1:W:413:TYR:OH	1:W:641:HIS:O	2.23	0.55
1:W:449:ASN:O	1:W:450:THR:OG1	2.20	0.55
1:W:698:ILE:O	1:X:701:THR:OG1	2.19	0.55
1:X:609:ARG:HG2	1:X:610:ASP:N	2.22	0.55
1:Z:609:ARG:HG2	1:Z:610:ASP:N	2.22	0.55
1:a:350:LEU:HG	1:a:351:PRO:HD2	1.89	0.55
1:a:416:GLU:CG	1:a:417:ASP:H	2.17	0.55
1:b:247:TRP:NE1	1:b:677:GLN:O	2.34	0.55
1:b:715:ASP:OD1	1:b:716:THR:N	2.38	0.55
1:e:451:PRO:HB2	1:e:453:GLY:O	2.06	0.55
1:e:545:GLN:OE1	1:e:545:GLN:N	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:689:GLU:HG3	1:h:731:LEU:HD13	1.88	0.55
1:i:545:GLN:OE1	1:i:545:GLN:N	2.34	0.55
1:j:451:PRO:HB2	1:j:453:GLY:O	2.06	0.55
1:k:689:GLU:HG3	1:k:731:LEU:HD13	1.88	0.55
1:l:689:GLU:HG3	1:l:731:LEU:HD13	1.88	0.55
1:m:701:THR:OG1	1:r:698:ILE:O	2.19	0.55
1:n:416:GLU:CG	1:n:417:ASP:H	2.17	0.55
1:p:343:PHE:CD1	1:p:344:THR:N	2.75	0.55
1:q:413:TYR:OH	1:q:641:HIS:O	2.23	0.55
1:r:257:TYR:OH	1:r:394:CYS:O	2.21	0.55
1:v:287:PHE:HB2	1:v:613:LEU:HA	1.88	0.55
1:v:609:ARG:HG2	1:v:610:ASP:N	2.22	0.55
1:w:609:ARG:HG2	1:w:610:ASP:N	2.22	0.55
1:x:554:ILE:O	1:x:557:VAL:HG22	2.07	0.55
1:x:609:ARG:HG2	1:x:610:ASP:N	2.22	0.55
1:z:545:GLN:OE1	1:z:545:GLN:N	2.34	0.55
1:3:343:PHE:CD1	1:3:344:THR:N	2.75	0.55
1:6:609:ARG:HG2	1:6:610:ASP:N	2.22	0.55
1:7:416:GLU:OE1	1:7:416:GLU:N	2.28	0.55
1:7:609:ARG:HG2	1:7:610:ASP:N	2.22	0.55
1:A:287:PHE:CE1	1:A:617:ILE:HG12	2.41	0.55
1:A:343:PHE:CD1	1:A:344:THR:N	2.75	0.55
1:A:545:GLN:OE1	1:A:545:GLN:N	2.34	0.55
1:G:545:GLN:OE1	1:G:545:GLN:N	2.34	0.55
1:J:343:PHE:CD1	1:J:344:THR:N	2.75	0.55
1:M:545:GLN:OE1	1:M:545:GLN:N	2.34	0.55
1:N:287:PHE:CE1	1:N:617:ILE:HG12	2.42	0.55
1:N:350:LEU:HG	1:N:351:PRO:HD2	1.88	0.55
1:P:291:PHE:O	1:P:292:SER:OG	2.09	0.55
1:P:343:PHE:CD1	1:P:344:THR:N	2.75	0.55
1:R:343:PHE:CD1	1:R:344:THR:N	2.75	0.55
1:T:240:ILE:HA	1:T:683:GLU:HA	1.88	0.55
1:V:416:GLU:OE1	1:V:416:GLU:N	2.28	0.55
1:W:609:ARG:HG2	1:W:610:ASP:N	2.22	0.55
1:X:625:ASP:OD1	1:X:625:ASP:N	2.23	0.55
1:a:343:PHE:CD1	1:a:344:THR:N	2.75	0.55
1:a:609:ARG:HG2	1:a:610:ASP:N	2.22	0.55
1:d:287:PHE:HB2	1:d:613:LEU:HA	1.88	0.55
1:f:413:TYR:OH	1:f:641:HIS:O	2.23	0.55
1:f:581:THR:N	1:f:591:ALA:O	2.37	0.55
1:h:287:PHE:HB2	1:h:613:LEU:HA	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:554:ILE:O	1:h:557:VAL:HG22	2.07	0.55
1:j:326:ASN:O	1:j:329:THR:OG1	2.19	0.55
1:k:287:PHE:HB2	1:k:613:LEU:HA	1.88	0.55
1:l:413:TYR:OH	1:l:641:HIS:O	2.23	0.55
1:m:287:PHE:HB2	1:m:613:LEU:HA	1.87	0.55
1:m:609:ARG:HG2	1:m:610:ASP:N	2.22	0.55
1:q:287:PHE:CE1	1:q:617:ILE:HG12	2.41	0.55
1:q:374:GLN:NE2	1:s:437:LEU:HD13	2.21	0.55
1:q:449:ASN:O	1:q:450:THR:OG1	2.20	0.55
1:w:451:PRO:HB2	1:w:453:GLY:O	2.06	0.55
1:y:240:ILE:HA	1:y:683:GLU:HA	1.88	0.55
1:y:343:PHE:CD1	1:y:344:THR:N	2.75	0.55
1:z:413:TYR:OH	1:z:641:HIS:O	2.24	0.55
1:1:240:ILE:HA	1:1:683:GLU:HA	1.88	0.55
1:B:715:ASP:OD1	1:B:716:THR:N	2.39	0.54
1:C:343:PHE:CD1	1:C:344:THR:N	2.75	0.54
1:C:715:ASP:OD1	1:C:716:THR:N	2.39	0.54
1:D:413:TYR:OH	1:D:641:HIS:O	2.23	0.54
1:E:240:ILE:HA	1:E:683:GLU:HA	1.88	0.54
1:E:394:CYS:O	1:E:395:LEU:HB2	2.08	0.54
1:F:609:ARG:HG2	1:F:610:ASP:N	2.22	0.54
1:L:715:ASP:OD1	1:L:716:THR:N	2.39	0.54
1:N:609:ARG:HG2	1:N:610:ASP:N	2.22	0.54
1:O:287:PHE:CE1	1:O:617:ILE:HG12	2.41	0.54
1:O:394:CYS:O	1:O:395:LEU:HB2	2.08	0.54
1:R:287:PHE:CE1	1:R:617:ILE:HG12	2.42	0.54
1:S:689:GLU:HG3	1:S:731:LEU:HD13	1.88	0.54
1:T:287:PHE:CE1	1:T:617:ILE:HG12	2.41	0.54
1:V:343:PHE:CD1	1:V:344:THR:N	2.75	0.54
1:V:689:GLU:HG3	1:V:731:LEU:HD13	1.88	0.54
1:W:287:PHE:CE1	1:W:617:ILE:HG12	2.41	0.54
1:b:287:PHE:CE1	1:b:617:ILE:HG12	2.41	0.54
1:h:609:ARG:HG2	1:h:610:ASP:N	2.22	0.54
1:j:581:THR:N	1:j:591:ALA:O	2.37	0.54
1:k:449:ASN:O	1:k:450:THR:OG1	2.20	0.54
1:k:554:ILE:O	1:k:557:VAL:HG22	2.07	0.54
1:k:609:ARG:HG2	1:k:610:ASP:N	2.22	0.54
1:m:416:GLU:CG	1:m:417:ASP:H	2.18	0.54
1:o:343:PHE:CD1	1:o:344:THR:N	2.75	0.54
1:p:545:GLN:OE1	1:p:545:GLN:N	2.34	0.54
1:q:609:ARG:HG2	1:q:610:ASP:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:698:ILE:O	1:x:701:THR:OG1	2.19	0.54
1:s:689:GLU:HG3	1:s:731:LEU:HD13	1.88	0.54
1:w:449:ASN:O	1:w:450:THR:OG1	2.20	0.54
1:z:689:GLU:HG3	1:z:731:LEU:HD13	1.88	0.54
1:2:287:PHE:HB2	1:2:613:LEU:HA	1.88	0.54
1:2:689:GLU:HG3	1:2:731:LEU:HD13	1.88	0.54
1:4:416:GLU:CG	1:4:417:ASP:H	2.17	0.54
1:5:447:ARG:HH12	1:5:450:THR:HG22	1.70	0.54
1:7:394:CYS:O	1:7:395:LEU:HB2	2.08	0.54
1:8:343:PHE:CD1	1:8:344:THR:N	2.75	0.54
1:A:394:CYS:O	1:A:395:LEU:HB2	2.08	0.54
1:F:350:LEU:HG	1:F:351:PRO:HD2	1.88	0.54
1:G:394:CYS:O	1:G:395:LEU:HB2	2.08	0.54
1:H:689:GLU:HG3	1:H:731:LEU:HD13	1.88	0.54
1:J:698:ILE:O	1:K:701:THR:OG1	2.19	0.54
1:K:343:PHE:CD1	1:K:344:THR:N	2.75	0.54
1:K:350:LEU:HG	1:K:351:PRO:HD2	1.88	0.54
1:L:343:PHE:CD1	1:L:344:THR:N	2.75	0.54
1:P:394:CYS:O	1:P:395:LEU:HB2	2.08	0.54
1:W:701:THR:OG1	1:X:698:ILE:O	2.18	0.54
1:X:394:CYS:O	1:X:395:LEU:HB2	2.08	0.54
1:Z:416:GLU:CG	1:Z:417:ASP:H	2.17	0.54
1:a:287:PHE:CE1	1:a:617:ILE:HG12	2.42	0.54
1:o:394:CYS:O	1:o:395:LEU:HB2	2.08	0.54
1:p:259:GLN:HB3	1:6:715:ASP:O	2.07	0.54
1:p:394:CYS:O	1:p:395:LEU:HB2	2.08	0.54
1:q:287:PHE:HB2	1:q:613:LEU:HA	1.87	0.54
1:r:343:PHE:CD1	1:r:344:THR:N	2.75	0.54
1:s:545:GLN:OE1	1:s:545:GLN:N	2.34	0.54
1:t:287:PHE:CE1	1:t:617:ILE:HG12	2.41	0.54
1:t:343:PHE:CD1	1:t:344:THR:N	2.75	0.54
1:u:554:ILE:O	1:u:557:VAL:HG22	2.06	0.54
1:x:394:CYS:O	1:x:395:LEU:HB2	2.08	0.54
1:3:394:CYS:O	1:3:395:LEU:HB2	2.08	0.54
1:6:240:ILE:HA	1:6:683:GLU:HA	1.88	0.54
1:8:394:CYS:O	1:8:395:LEU:HB2	2.08	0.54
1:B:287:PHE:CE1	1:B:617:ILE:HG12	2.41	0.54
1:D:343:PHE:CD1	1:D:344:THR:N	2.75	0.54
1:D:350:LEU:HG	1:D:351:PRO:HD2	1.89	0.54
1:D:449:ASN:O	1:D:450:THR:OG1	2.20	0.54
1:F:240:ILE:HA	1:F:683:GLU:HA	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:413:TYR:OH	1:K:641:HIS:O	2.24	0.54
1:K:554:ILE:O	1:K:557:VAL:HG22	2.06	0.54
1:O:416:GLU:CG	1:O:417:ASP:H	2.17	0.54
1:S:240:ILE:HA	1:S:683:GLU:HA	1.88	0.54
1:S:715:ASP:OD1	1:S:716:THR:N	2.38	0.54
1:X:343:PHE:CD1	1:X:344:THR:N	2.75	0.54
1:Y:257:TYR:OH	1:Y:394:CYS:O	2.21	0.54
1:Z:287:PHE:CE1	1:Z:617:ILE:HG12	2.41	0.54
1:c:508:TYR:HA	1:p:577:GLY:HA3	1.88	0.54
1:d:689:GLU:HG3	1:d:731:LEU:HD13	1.88	0.54
1:g:484:ARG:HB2	1:h:579:VAL:HG22	1.90	0.54
1:g:545:GLN:OE1	1:g:545:GLN:N	2.34	0.54
1:h:449:ASN:O	1:h:450:THR:OG1	2.20	0.54
1:l:350:LEU:HG	1:l:351:PRO:HD2	1.89	0.54
1:l:545:GLN:OE1	1:l:545:GLN:N	2.34	0.54
1:t:350:LEU:HG	1:t:351:PRO:HD2	1.88	0.54
1:u:609:ARG:HG2	1:u:610:ASP:N	2.22	0.54
1:u:715:ASP:OD1	1:u:716:THR:N	2.38	0.54
1:w:287:PHE:CE1	1:w:617:ILE:HG12	2.41	0.54
1:y:416:GLU:OE1	1:y:416:GLU:N	2.28	0.54
1:z:361:CYS:SG	1:z:362:LEU:N	2.72	0.54
1:1:287:PHE:CE1	1:1:617:ILE:HG12	2.41	0.54
1:1:571:VAL:HG12	1:1:572:ALA:N	2.23	0.54
1:3:287:PHE:CE1	1:3:617:ILE:HG12	2.42	0.54
1:7:240:ILE:HA	1:7:683:GLU:HA	1.88	0.54
1:D:394:CYS:O	1:D:395:LEU:HB2	2.08	0.54
1:F:326:ASN:O	1:F:329:THR:OG1	2.19	0.54
1:M:413:TYR:OH	1:M:641:HIS:O	2.23	0.54
1:R:609:ARG:HG2	1:R:610:ASP:N	2.22	0.54
1:S:609:ARG:HG2	1:S:610:ASP:N	2.22	0.54
1:T:571:VAL:HG12	1:T:572:ALA:N	2.23	0.54
1:Y:343:PHE:CD1	1:Y:344:THR:N	2.75	0.54
1:Z:287:PHE:HB2	1:Z:613:LEU:HA	1.88	0.54
1:b:413:TYR:OH	1:b:641:HIS:O	2.23	0.54
1:i:394:CYS:O	1:i:395:LEU:HB2	2.07	0.54
1:o:715:ASP:OD1	1:o:716:THR:N	2.39	0.54
1:q:484:ARG:HB2	1:s:579:VAL:HG22	1.90	0.54
1:q:579:VAL:HG22	1:r:484:ARG:HB2	1.90	0.54
1:u:240:ILE:HA	1:u:683:GLU:HA	1.88	0.54
1:u:689:GLU:HG3	1:u:731:LEU:HD13	1.88	0.54
1:v:715:ASP:OD1	1:v:716:THR:N	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:554:ILE:O	1:w:557:VAL:HG22	2.07	0.54
1:x:343:PHE:CD1	1:x:344:THR:N	2.75	0.54
1:1:350:LEU:HG	1:1:351:PRO:HD2	1.88	0.54
1:3:416:GLU:CG	1:3:417:ASP:H	2.18	0.54
1:B:287:PHE:HB2	1:B:613:LEU:HA	1.88	0.54
1:B:413:TYR:OH	1:B:641:HIS:O	2.23	0.54
1:D:554:ILE:O	1:D:557:VAL:HG22	2.07	0.54
1:G:693:ARG:NH1	1:I:391:SER:HA	2.22	0.54
1:J:394:CYS:O	1:J:395:LEU:HB2	2.08	0.54
1:J:554:ILE:O	1:J:557:VAL:HG22	2.07	0.54
1:K:394:CYS:O	1:K:395:LEU:HB2	2.08	0.54
1:K:449:ASN:O	1:K:450:THR:OG1	2.20	0.54
1:M:394:CYS:O	1:M:395:LEU:HB2	2.08	0.54
1:O:484:ARG:HB2	1:n:579:VAL:HG22	1.90	0.54
1:P:689:GLU:HG3	1:P:731:LEU:HD13	1.88	0.54
1:R:350:LEU:HG	1:R:351:PRO:HD2	1.88	0.54
1:R:571:VAL:HG12	1:R:572:ALA:N	2.23	0.54
1:R:581:THR:N	1:R:591:ALA:O	2.37	0.54
1:T:413:TYR:OH	1:T:641:HIS:O	2.23	0.54
1:Z:449:ASN:O	1:Z:450:THR:OG1	2.20	0.54
1:e:287:PHE:CE1	1:e:617:ILE:HG12	2.42	0.54
1:e:343:PHE:CD1	1:e:344:THR:N	2.75	0.54
1:f:240:ILE:HA	1:f:683:GLU:HA	1.88	0.54
1:g:287:PHE:HB2	1:g:613:LEU:HA	1.88	0.54
1:g:394:CYS:O	1:g:395:LEU:HB2	2.07	0.54
1:g:581:THR:N	1:g:591:ALA:O	2.37	0.54
1:h:571:VAL:HG12	1:h:572:ALA:N	2.23	0.54
1:j:416:GLU:CG	1:j:417:ASP:H	2.18	0.54
1:k:571:VAL:HG12	1:k:572:ALA:N	2.23	0.54
1:m:287:PHE:CE1	1:m:617:ILE:HG12	2.42	0.54
1:m:449:ASN:O	1:m:450:THR:OG1	2.20	0.54
1:n:394:CYS:O	1:n:395:LEU:HB2	2.07	0.54
1:n:451:PRO:HB2	1:n:453:GLY:O	2.06	0.54
1:q:391:SER:HA	1:s:693:ARG:NH1	2.23	0.54
1:r:579:VAL:HG22	1:s:484:ARG:HB2	1.90	0.54
1:s:609:ARG:HG2	1:s:610:ASP:N	2.22	0.54
1:t:571:VAL:HG12	1:t:572:ALA:N	2.23	0.54
1:t:609:ARG:HG2	1:t:610:ASP:N	2.22	0.54
1:w:343:PHE:CD1	1:w:344:THR:N	2.75	0.54
1:x:625:ASP:OD1	1:x:625:ASP:N	2.23	0.54
1:y:571:VAL:HG12	1:y:572:ALA:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:413:TYR:OH	1:1:641:HIS:O	2.23	0.54
1:5:240:ILE:HA	1:5:683:GLU:HA	1.88	0.54
1:6:326:ASN:O	1:6:329:THR:OG1	2.19	0.54
1:6:350:LEU:HG	1:6:351:PRO:HD2	1.89	0.54
1:A:715:ASP:OD1	1:A:716:THR:N	2.39	0.54
1:B:240:ILE:HA	1:B:683:GLU:HA	1.88	0.54
1:C:484:ARG:HB2	1:M:579:VAL:HG22	1.90	0.54
1:D:581:THR:N	1:D:591:ALA:O	2.37	0.54
1:E:571:VAL:HG12	1:E:572:ALA:N	2.23	0.54
1:F:247:TRP:NE1	1:F:677:GLN:O	2.34	0.54
1:H:545:GLN:OE1	1:H:545:GLN:N	2.34	0.54
1:J:579:VAL:HG22	1:L:484:ARG:HB2	1.90	0.54
1:O:374:GLN:NE2	1:n:437:LEU:HD13	2.19	0.54
1:P:350:LEU:HG	1:P:351:PRO:HD2	1.88	0.54
1:P:416:GLU:CG	1:P:417:ASP:H	2.18	0.54
1:S:554:ILE:O	1:S:557:VAL:HG22	2.07	0.54
1:T:350:LEU:HG	1:T:351:PRO:HD2	1.88	0.54
1:U:240:ILE:HA	1:U:683:GLU:HA	1.88	0.54
1:U:715:ASP:OD1	1:U:716:THR:N	2.39	0.54
1:V:571:VAL:HG12	1:V:572:ALA:N	2.23	0.54
1:W:579:VAL:HG22	1:Y:484:ARG:HB2	1.90	0.54
1:Z:571:VAL:HG12	1:Z:572:ALA:N	2.23	0.54
1:b:240:ILE:HA	1:b:683:GLU:HA	1.88	0.54
1:e:571:VAL:HG12	1:e:572:ALA:N	2.23	0.54
1:f:609:ARG:HG2	1:f:610:ASP:N	2.22	0.54
1:i:287:PHE:HB2	1:i:613:LEU:HA	1.88	0.54
1:i:484:ARG:HB2	1:k:579:VAL:HG22	1.90	0.54
1:j:240:ILE:HA	1:j:683:GLU:HA	1.88	0.54
1:j:350:LEU:HG	1:j:351:PRO:HD2	1.88	0.54
1:n:609:ARG:HG2	1:n:610:ASP:N	2.22	0.54
1:o:350:LEU:HG	1:o:351:PRO:HD2	1.88	0.54
1:r:416:GLU:CG	1:r:417:ASP:H	2.18	0.54
1:v:240:ILE:HA	1:v:683:GLU:HA	1.88	0.54
1:x:579:VAL:HG22	1:y:484:ARG:HB2	1.90	0.54
1:z:350:LEU:HG	1:z:351:PRO:HD2	1.89	0.54
1:4:394:CYS:O	1:4:395:LEU:HB2	2.08	0.54
1:4:451:PRO:HB2	1:4:453:GLY:O	2.06	0.54
1:8:609:ARG:HG2	1:8:610:ASP:N	2.22	0.54
1:A:350:LEU:HG	1:A:351:PRO:HD2	1.88	0.54
1:H:609:ARG:HG2	1:H:610:ASP:N	2.22	0.54
1:I:609:ARG:HG2	1:I:610:ASP:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:581:THR:N	1:K:591:ALA:O	2.37	0.54
1:M:429:SER:OG	1:M:431:ASP:OD1	2.18	0.54
1:N:413:TYR:OH	1:N:641:HIS:O	2.23	0.54
1:N:571:VAL:HG12	1:N:572:ALA:N	2.23	0.54
1:Q:240:ILE:HA	1:Q:683:GLU:HA	1.88	0.54
1:R:240:ILE:HA	1:R:683:GLU:HA	1.88	0.54
1:R:601:LEU:HB3	1:R:604:MET:HE2	1.90	0.54
1:R:715:ASP:OD1	1:R:716:THR:N	2.39	0.54
1:T:609:ARG:HG2	1:T:610:ASP:N	2.22	0.54
1:W:287:PHE:HB2	1:W:613:LEU:HA	1.88	0.54
1:Z:579:VAL:HG22	1:4:484:ARG:HB2	1.90	0.54
1:a:437:LEU:HD13	1:8:374:GLN:NE2	2.20	0.54
1:c:350:LEU:HG	1:c:351:PRO:HD2	1.88	0.54
1:c:437:LEU:HD13	1:o:374:GLN:NE2	2.20	0.54
1:c:449:ASN:O	1:c:450:THR:OG1	2.20	0.54
1:d:601:LEU:HB3	1:d:604:MET:HE2	1.90	0.54
1:e:554:ILE:O	1:e:557:VAL:HG22	2.07	0.54
1:e:601:LEU:HB3	1:e:604:MET:HE2	1.90	0.54
1:f:350:LEU:HG	1:f:351:PRO:HD2	1.88	0.54
1:g:350:LEU:HG	1:g:351:PRO:HD2	1.88	0.54
1:h:545:GLN:OE1	1:h:545:GLN:N	2.34	0.54
1:j:609:ARG:HG2	1:j:610:ASP:N	2.22	0.54
1:m:554:ILE:O	1:m:557:VAL:HG22	2.07	0.54
1:t:240:ILE:HA	1:t:683:GLU:HA	1.88	0.54
1:t:601:LEU:HB3	1:t:604:MET:HE2	1.90	0.54
1:w:601:LEU:HB3	1:w:604:MET:HE2	1.90	0.54
1:4:609:ARG:HG2	1:4:610:ASP:N	2.22	0.54
1:7:571:VAL:HG12	1:7:572:ALA:N	2.23	0.54
1:8:416:GLU:CG	1:8:417:ASP:H	2.17	0.54
1:8:451:PRO:HB2	1:8:453:GLY:O	2.06	0.54
1:8:689:GLU:HG3	1:8:731:LEU:HD13	1.88	0.54
1:H:579:VAL:HG22	1:W:484:ARG:HB2	1.90	0.54
1:M:350:LEU:HG	1:M:351:PRO:HD2	1.88	0.54
1:M:554:ILE:O	1:M:557:VAL:HG22	2.07	0.54
1:P:451:PRO:HB2	1:P:453:GLY:O	2.06	0.54
1:P:609:ARG:HG2	1:P:610:ASP:N	2.22	0.54
1:S:601:LEU:HB3	1:S:604:MET:HE2	1.90	0.54
1:V:326:ASN:O	1:V:329:THR:OG1	2.19	0.54
1:a:571:VAL:HG12	1:a:572:ALA:N	2.23	0.54
1:d:416:GLU:OE1	1:d:416:GLU:N	2.28	0.54
1:i:350:LEU:HG	1:i:351:PRO:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:545:GLN:OE1	1:k:545:GLN:N	2.34	0.54
1:m:571:VAL:HG12	1:m:572:ALA:N	2.23	0.54
1:s:350:LEU:HG	1:s:351:PRO:HD2	1.88	0.54
1:u:601:LEU:HB3	1:u:604:MET:HE2	1.90	0.54
1:v:350:LEU:HG	1:v:351:PRO:HD2	1.88	0.54
1:w:571:VAL:HG12	1:w:572:ALA:N	2.23	0.54
1:w:715:ASP:OD1	1:w:716:THR:N	2.38	0.54
1:2:609:ARG:HG2	1:2:610:ASP:N	2.22	0.54
1:6:247:TRP:NE1	1:6:677:GLN:O	2.34	0.54
1:6:343:PHE:CD1	1:6:344:THR:N	2.75	0.54
1:F:343:PHE:CD1	1:F:344:THR:N	2.75	0.54
1:H:350:LEU:HG	1:H:351:PRO:HD2	1.88	0.54
1:J:715:ASP:OD1	1:J:716:THR:N	2.38	0.54
1:K:601:LEU:HB3	1:K:604:MET:HE2	1.90	0.54
1:Q:689:GLU:HG3	1:Q:731:LEU:HD13	1.88	0.54
1:U:350:LEU:HG	1:U:351:PRO:HD2	1.89	0.54
1:Y:571:VAL:HG12	1:Y:572:ALA:N	2.23	0.54
1:Z:554:ILE:O	1:Z:557:VAL:HG22	2.07	0.54
1:a:247:TRP:NE1	1:a:677:GLN:O	2.34	0.54
1:a:413:TYR:OH	1:a:641:HIS:O	2.23	0.54
1:d:554:ILE:O	1:d:557:VAL:HG22	2.07	0.54
1:e:715:ASP:OD1	1:e:716:THR:N	2.38	0.54
1:f:416:GLU:OE1	1:f:416:GLU:N	2.28	0.54
1:i:581:THR:N	1:i:591:ALA:O	2.37	0.54
1:j:564:GLU:OE1	1:j:729:ARG:HB2	2.08	0.54
1:l:343:PHE:CD1	1:l:344:THR:N	2.75	0.54
1:r:571:VAL:HG12	1:r:572:ALA:N	2.23	0.54
1:r:609:ARG:HG2	1:r:610:ASP:N	2.22	0.54
1:t:715:ASP:OD1	1:t:716:THR:N	2.39	0.54
1:v:326:ASN:O	1:v:329:THR:OG1	2.19	0.54
1:z:343:PHE:CD1	1:z:344:THR:N	2.75	0.54
1:2:601:LEU:HB3	1:2:604:MET:HE2	1.90	0.54
1:5:601:LEU:HB3	1:5:604:MET:HE2	1.90	0.54
1:5:715:ASP:OD1	1:5:716:THR:N	2.39	0.54
1:8:350:LEU:HG	1:8:351:PRO:HD2	1.89	0.54
1:8:413:TYR:OH	1:8:641:HIS:O	2.23	0.54
1:D:564:GLU:OE1	1:D:729:ARG:HB2	2.09	0.54
1:D:601:LEU:HB3	1:D:604:MET:HE2	1.90	0.54
1:G:564:GLU:OE1	1:G:729:ARG:HB2	2.08	0.54
1:H:394:CYS:O	1:H:395:LEU:HB2	2.08	0.54
1:I:350:LEU:HG	1:I:351:PRO:HD2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:449:ASN:O	1:I:450:THR:OG1	2.20	0.54
1:I:571:VAL:HG12	1:I:572:ALA:N	2.23	0.54
1:J:350:LEU:HG	1:J:351:PRO:HD2	1.88	0.54
1:J:429:SER:OG	1:J:431:ASP:OD1	2.18	0.54
1:K:564:GLU:OE1	1:K:729:ARG:HB2	2.09	0.54
1:N:247:TRP:NE1	1:N:677:GLN:O	2.34	0.54
1:O:689:GLU:HG3	1:O:731:LEU:HD13	1.88	0.54
1:Q:601:LEU:HB3	1:Q:604:MET:HE2	1.90	0.54
1:Y:609:ARG:HG2	1:Y:610:ASP:N	2.22	0.54
1:a:601:LEU:HB3	1:a:604:MET:HE2	1.90	0.54
1:b:287:PHE:HB2	1:b:613:LEU:HA	1.88	0.54
1:c:571:VAL:HG12	1:c:572:ALA:N	2.23	0.54
1:c:609:ARG:HG2	1:c:610:ASP:N	2.22	0.54
1:d:609:ARG:HG2	1:d:610:ASP:N	2.22	0.54
1:f:564:GLU:OE1	1:f:729:ARG:HB2	2.09	0.54
1:p:564:GLU:OE1	1:p:729:ARG:HB2	2.08	0.54
1:t:564:GLU:OE1	1:t:729:ARG:HB2	2.08	0.54
1:1:554:ILE:O	1:1:557:VAL:HG22	2.07	0.54
1:2:554:ILE:O	1:2:557:VAL:HG22	2.07	0.54
1:3:484:ARG:HB2	1:4:579:VAL:HG22	1.90	0.54
1:3:689:GLU:HG3	1:3:731:LEU:HD13	1.88	0.54
1:5:689:GLU:HG3	1:5:731:LEU:HD13	1.88	0.54
1:F:564:GLU:OE1	1:F:729:ARG:HB2	2.08	0.53
1:F:601:LEU:HB3	1:F:604:MET:HE2	1.90	0.53
1:H:564:GLU:OE1	1:H:729:ARG:HB2	2.08	0.53
1:K:579:VAL:HG22	1:a:484:ARG:HB2	1.90	0.53
1:M:715:ASP:OD1	1:M:716:THR:N	2.39	0.53
1:N:601:LEU:HB3	1:N:604:MET:HE2	1.90	0.53
1:O:579:VAL:HG22	1:m:484:ARG:HB2	1.90	0.53
1:Q:554:ILE:O	1:Q:557:VAL:HG22	2.07	0.53
1:Q:571:VAL:HG12	1:Q:572:ALA:N	2.23	0.53
1:Q:609:ARG:HG2	1:Q:610:ASP:N	2.22	0.53
1:Q:715:ASP:OD1	1:Q:716:THR:N	2.38	0.53
1:R:416:GLU:OE1	1:R:416:GLU:N	2.28	0.53
1:R:564:GLU:OE1	1:R:729:ARG:HB2	2.08	0.53
1:S:394:CYS:O	1:S:395:LEU:HB2	2.08	0.53
1:T:554:ILE:O	1:T:557:VAL:HG22	2.07	0.53
1:U:545:GLN:OE1	1:U:545:GLN:N	2.34	0.53
1:V:484:ARG:HB2	1:X:579:VAL:HG22	1.90	0.53
1:Z:484:ARG:HB2	1:3:579:VAL:HG22	1.90	0.53
1:Z:564:GLU:OE1	1:Z:729:ARG:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:394:CYS:O	1:a:395:LEU:HB2	2.08	0.53
1:f:394:CYS:O	1:f:395:LEU:HB2	2.08	0.53
1:g:601:LEU:HB3	1:g:604:MET:HE2	1.90	0.53
1:j:394:CYS:O	1:j:395:LEU:HB2	2.08	0.53
1:n:350:LEU:HG	1:n:351:PRO:HD2	1.88	0.53
1:r:416:GLU:OE1	1:r:416:GLU:N	2.28	0.53
1:s:394:CYS:O	1:s:395:LEU:HB2	2.08	0.53
1:s:564:GLU:OE1	1:s:729:ARG:HB2	2.09	0.53
1:v:313:PHE:HD1	1:v:680:VAL:HG12	1.74	0.53
1:y:609:ARG:HG2	1:y:610:ASP:N	2.22	0.53
1:2:416:GLU:OE1	1:2:416:GLU:N	2.28	0.53
1:2:571:VAL:HG12	1:2:572:ALA:N	2.23	0.53
1:4:350:LEU:HG	1:4:351:PRO:HD2	1.89	0.53
1:5:350:LEU:HG	1:5:351:PRO:HD2	1.89	0.53
1:5:554:ILE:O	1:5:557:VAL:HG22	2.07	0.53
1:6:564:GLU:OE1	1:6:729:ARG:HB2	2.08	0.53
1:6:601:LEU:HB3	1:6:604:MET:HE2	1.90	0.53
1:E:601:LEU:HB3	1:E:604:MET:HE2	1.90	0.53
1:F:313:PHE:HD1	1:F:680:VAL:HG12	1.74	0.53
1:H:484:ARG:HB2	1:Y:579:VAL:HG22	1.90	0.53
1:M:601:LEU:HB3	1:M:604:MET:HE2	1.90	0.53
1:N:394:CYS:O	1:N:395:LEU:HB2	2.08	0.53
1:P:413:TYR:OH	1:P:641:HIS:O	2.24	0.53
1:R:313:PHE:HD1	1:R:680:VAL:HG12	1.74	0.53
1:R:416:GLU:CG	1:R:417:ASP:H	2.17	0.53
1:T:601:LEU:HB3	1:T:604:MET:HE2	1.90	0.53
1:V:609:ARG:HG2	1:V:610:ASP:N	2.22	0.53
1:d:571:VAL:HG12	1:d:572:ALA:N	2.23	0.53
1:e:295:ASP:OD1	1:e:298:ARG:NH1	2.42	0.53
1:f:313:PHE:HD1	1:f:680:VAL:HG12	1.74	0.53
1:i:601:LEU:HB3	1:i:604:MET:HE2	1.90	0.53
1:r:564:GLU:OE1	1:r:729:ARG:HB2	2.09	0.53
1:u:394:CYS:O	1:u:395:LEU:HB2	2.08	0.53
1:v:416:GLU:OE1	1:v:416:GLU:N	2.28	0.53
1:v:545:GLN:OE1	1:v:545:GLN:N	2.34	0.53
1:z:484:ARG:HB2	1:2:579:VAL:HG22	1.89	0.53
1:z:609:ARG:HG2	1:z:610:ASP:N	2.22	0.53
1:1:313:PHE:HD1	1:1:680:VAL:HG12	1.74	0.53
1:1:564:GLU:OE1	1:1:729:ARG:HB2	2.08	0.53
1:1:601:LEU:HB3	1:1:604:MET:HE2	1.90	0.53
1:3:374:GLN:NE2	1:4:437:LEU:HD13	2.20	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:571:VAL:HG12	1:5:572:ALA:N	2.23	0.53
1:5:609:ARG:HG2	1:5:610:ASP:N	2.22	0.53
1:7:601:LEU:HB3	1:7:604:MET:HE2	1.90	0.53
1:8:295:ASP:OD1	1:8:298:ARG:NH1	2.42	0.53
1:D:484:ARG:HB2	1:P:579:VAL:HG22	1.90	0.53
1:D:579:VAL:HG22	1:N:484:ARG:HB2	1.90	0.53
1:J:247:TRP:NE1	1:J:677:GLN:O	2.34	0.53
1:J:601:LEU:HB3	1:J:604:MET:HE2	1.90	0.53
1:K:582:ASN:OD1	1:K:591:ALA:N	2.35	0.53
1:N:715:ASP:OD1	1:N:716:THR:N	2.38	0.53
1:P:295:ASP:OD1	1:P:298:ARG:NH1	2.42	0.53
1:Q:295:ASP:OD1	1:Q:298:ARG:NH1	2.42	0.53
1:Q:350:LEU:HG	1:Q:351:PRO:HD2	1.88	0.53
1:T:313:PHE:HD1	1:T:680:VAL:HG12	1.74	0.53
1:T:394:CYS:O	1:T:395:LEU:HB2	2.08	0.53
1:T:564:GLU:OE1	1:T:729:ARG:HB2	2.08	0.53
1:V:579:VAL:HG22	1:e:484:ARG:HB2	1.90	0.53
1:Y:416:GLU:OE1	1:Y:416:GLU:N	2.28	0.53
1:Y:564:GLU:OE1	1:Y:729:ARG:HB2	2.09	0.53
1:a:715:ASP:OD1	1:a:716:THR:N	2.38	0.53
1:c:416:GLU:CG	1:c:417:ASP:H	2.17	0.53
1:d:394:CYS:O	1:d:395:LEU:HB2	2.08	0.53
1:g:523:MET:HG3	1:g:524:ALA:CB	2.39	0.53
1:g:571:VAL:HG12	1:g:572:ALA:N	2.23	0.53
1:g:609:ARG:HG2	1:g:610:ASP:N	2.22	0.53
1:i:523:MET:HG3	1:i:524:ALA:CB	2.39	0.53
1:i:564:GLU:OE1	1:i:729:ARG:HB2	2.08	0.53
1:i:609:ARG:HG2	1:i:610:ASP:N	2.22	0.53
1:j:313:PHE:HD1	1:j:680:VAL:HG12	1.74	0.53
1:l:523:MET:HG3	1:l:524:ALA:CB	2.39	0.53
1:l:609:ARG:HG2	1:l:610:ASP:N	2.22	0.53
1:m:564:GLU:OE1	1:m:729:ARG:HB2	2.08	0.53
1:n:523:MET:HG3	1:n:524:ALA:CB	2.39	0.53
1:o:581:THR:N	1:o:591:ALA:O	2.37	0.53
1:s:295:ASP:OD1	1:s:298:ARG:NH1	2.42	0.53
1:t:313:PHE:HD1	1:t:680:VAL:HG12	1.74	0.53
1:u:247:TRP:NE1	1:u:677:GLN:O	2.34	0.53
1:w:295:ASP:OD1	1:w:298:ARG:NH1	2.42	0.53
1:1:523:MET:HG3	1:1:524:ALA:CB	2.39	0.53
1:4:523:MET:HG3	1:4:524:ALA:CB	2.39	0.53
1:6:313:PHE:HD1	1:6:680:VAL:HG12	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:394:CYS:O	1:6:395:LEU:HB2	2.08	0.53
1:6:413:TYR:OH	1:6:641:HIS:O	2.23	0.53
1:7:313:PHE:HD1	1:7:680:VAL:HG12	1.74	0.53
1:A:581:THR:N	1:A:591:ALA:O	2.37	0.53
1:B:579:VAL:HG22	1:J:484:ARG:HB2	1.90	0.53
1:D:295:ASP:OD1	1:D:298:ARG:NH1	2.42	0.53
1:E:313:PHE:HD1	1:E:680:VAL:HG12	1.74	0.53
1:F:413:TYR:OH	1:F:641:HIS:O	2.23	0.53
1:H:295:ASP:OD1	1:H:298:ARG:NH1	2.42	0.53
1:J:441:TYR:HA	1:J:464:GLN:NE2	2.24	0.53
1:J:564:GLU:OE1	1:J:729:ARG:HB2	2.08	0.53
1:K:295:ASP:OD1	1:K:298:ARG:NH1	2.42	0.53
1:K:484:ARG:HB2	1:8:579:VAL:HG22	1.90	0.53
1:M:484:ARG:HB2	1:b:579:VAL:HG22	1.90	0.53
1:O:295:ASP:OD1	1:O:298:ARG:NH1	2.42	0.53
1:Q:581:THR:N	1:Q:591:ALA:O	2.37	0.53
1:S:313:PHE:HD1	1:S:680:VAL:HG12	1.74	0.53
1:T:523:MET:HG3	1:T:524:ALA:CB	2.39	0.53
1:U:313:PHE:HD1	1:U:680:VAL:HG12	1.74	0.53
1:W:564:GLU:OE1	1:W:729:ARG:HB2	2.09	0.53
1:X:295:ASP:OD1	1:X:298:ARG:NH1	2.42	0.53
1:Z:295:ASP:OD1	1:Z:298:ARG:NH1	2.42	0.53
1:Z:523:MET:HG3	1:Z:524:ALA:CB	2.39	0.53
1:c:295:ASP:OD1	1:c:298:ARG:NH1	2.42	0.53
1:e:441:TYR:HA	1:e:464:GLN:NE2	2.24	0.53
1:g:441:TYR:HA	1:g:464:GLN:NE2	2.24	0.53
1:g:564:GLU:OE1	1:g:729:ARG:HB2	2.08	0.53
1:i:571:VAL:HG12	1:i:572:ALA:N	2.23	0.53
1:m:295:ASP:OD1	1:m:298:ARG:NH1	2.42	0.53
1:m:523:MET:HG3	1:m:524:ALA:CB	2.39	0.53
1:m:579:VAL:HG22	1:n:484:ARG:HB2	1.91	0.53
1:n:295:ASP:OD1	1:n:298:ARG:NH1	2.42	0.53
1:o:609:ARG:HG2	1:o:610:ASP:N	2.22	0.53
1:q:564:GLU:OE1	1:q:729:ARG:HB2	2.09	0.53
1:r:313:PHE:HD1	1:r:680:VAL:HG12	1.74	0.53
1:r:601:LEU:HB3	1:r:604:MET:HE2	1.90	0.53
1:s:416:GLU:CG	1:s:417:ASP:H	2.17	0.53
1:t:416:GLU:CG	1:t:417:ASP:H	2.18	0.53
1:u:313:PHE:HD1	1:u:680:VAL:HG12	1.74	0.53
1:w:484:ARG:HB2	1:y:579:VAL:HG22	1.90	0.53
1:w:581:THR:N	1:w:591:ALA:O	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:295:ASP:OD1	1:x:298:ARG:NH1	2.42	0.53
1:x:313:PHE:HD1	1:x:680:VAL:HG12	1.74	0.53
1:y:313:PHE:HD1	1:y:680:VAL:HG12	1.74	0.53
1:z:394:CYS:O	1:z:395:LEU:HB2	2.08	0.53
1:3:295:ASP:OD1	1:3:298:ARG:NH1	2.42	0.53
1:4:295:ASP:OD1	1:4:298:ARG:NH1	2.42	0.53
1:5:295:ASP:OD1	1:5:298:ARG:NH1	2.42	0.53
1:A:579:VAL:HG22	1:G:484:ARG:HB2	1.91	0.53
1:A:609:ARG:HG2	1:A:610:ASP:N	2.22	0.53
1:B:416:GLU:CG	1:B:417:ASP:H	2.17	0.53
1:C:523:MET:HG3	1:C:524:ALA:CB	2.39	0.53
1:D:571:VAL:HG12	1:D:572:ALA:N	2.23	0.53
1:G:441:TYR:HA	1:G:464:GLN:NE2	2.24	0.53
1:K:609:ARG:HG2	1:K:610:ASP:N	2.22	0.53
1:M:247:TRP:NE1	1:M:677:GLN:O	2.34	0.53
1:M:441:TYR:HA	1:M:464:GLN:NE2	2.24	0.53
1:M:564:GLU:OE1	1:M:729:ARG:HB2	2.08	0.53
1:N:441:TYR:HA	1:N:464:GLN:NE2	2.24	0.53
1:O:441:TYR:HA	1:O:464:GLN:NE2	2.24	0.53
1:O:571:VAL:HG12	1:O:572:ALA:N	2.23	0.53
1:P:571:VAL:HG12	1:P:572:ALA:N	2.23	0.53
1:Q:523:MET:HG3	1:Q:524:ALA:CB	2.39	0.53
1:T:579:VAL:HG22	1:d:484:ARG:HB2	1.91	0.53
1:U:416:GLU:OE1	1:U:416:GLU:N	2.28	0.53
1:W:441:TYR:HA	1:W:464:GLN:NE2	2.24	0.53
1:X:313:PHE:HD1	1:X:680:VAL:HG12	1.74	0.53
1:Y:313:PHE:HD1	1:Y:680:VAL:HG12	1.74	0.53
1:Y:601:LEU:HB3	1:Y:604:MET:HE2	1.90	0.53
1:b:601:LEU:HB3	1:b:604:MET:HE2	1.90	0.53
1:i:441:TYR:HA	1:i:464:GLN:NE2	2.24	0.53
1:j:571:VAL:HG12	1:j:572:ALA:N	2.23	0.53
1:l:394:CYS:O	1:l:395:LEU:HB2	2.08	0.53
1:p:441:TYR:HA	1:p:464:GLN:NE2	2.24	0.53
1:q:326:ASN:O	1:q:329:THR:OG1	2.19	0.53
1:q:523:MET:HG3	1:q:524:ALA:CB	2.39	0.53
1:v:295:ASP:OD1	1:v:298:ARG:NH1	2.42	0.53
1:w:441:TYR:HA	1:w:464:GLN:NE2	2.24	0.53
1:z:523:MET:HG3	1:z:524:ALA:CB	2.39	0.53
1:1:394:CYS:O	1:1:395:LEU:HB2	2.08	0.53
1:2:247:TRP:NE1	1:2:677:GLN:O	2.34	0.53
1:2:564:GLU:OE1	1:2:729:ARG:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:581:THR:N	1:5:591:ALA:O	2.37	0.53
1:8:571:VAL:HG12	1:8:572:ALA:N	2.23	0.53
1:B:295:ASP:OD1	1:B:298:ARG:NH1	2.42	0.53
1:B:484:ARG:HB2	1:L:579:VAL:HG22	1.90	0.53
1:B:601:LEU:HB3	1:B:604:MET:HE2	1.90	0.53
1:C:313:PHE:HD1	1:C:680:VAL:HG12	1.74	0.53
1:D:582:ASN:OD1	1:D:591:ALA:N	2.35	0.53
1:D:609:ARG:HG2	1:D:610:ASP:N	2.22	0.53
1:F:394:CYS:O	1:F:395:LEU:HB2	2.08	0.53
1:H:416:GLU:CG	1:H:417:ASP:H	2.17	0.53
1:I:295:ASP:OD1	1:I:298:ARG:NH1	2.42	0.53
1:I:416:GLU:CG	1:I:417:ASP:H	2.17	0.53
1:K:508:TYR:HA	1:8:577:GLY:HA3	1.91	0.53
1:K:571:VAL:HG12	1:K:572:ALA:N	2.23	0.53
1:L:326:ASN:O	1:L:329:THR:OG1	2.19	0.53
1:N:582:ASN:OD1	1:N:591:ALA:N	2.35	0.53
1:O:508:TYR:HA	1:n:577:GLY:HA3	1.91	0.53
1:O:601:LEU:HB3	1:O:604:MET:HE2	1.90	0.53
1:Q:564:GLU:OE1	1:Q:729:ARG:HB2	2.08	0.53
1:R:394:CYS:O	1:R:395:LEU:HB2	2.07	0.53
1:R:441:TYR:HA	1:R:464:GLN:NE2	2.24	0.53
1:S:295:ASP:OD1	1:S:298:ARG:NH1	2.42	0.53
1:S:416:GLU:CG	1:S:417:ASP:H	2.17	0.53
1:T:441:TYR:HA	1:T:464:GLN:NE2	2.24	0.53
1:T:449:ASN:O	1:T:450:THR:OG1	2.21	0.53
1:U:295:ASP:OD1	1:U:298:ARG:NH1	2.42	0.53
1:V:313:PHE:HD1	1:V:680:VAL:HG12	1.74	0.53
1:V:523:MET:HG3	1:V:524:ALA:CB	2.39	0.53
1:X:523:MET:HG3	1:X:524:ALA:CB	2.39	0.53
1:a:441:TYR:HA	1:a:464:GLN:NE2	2.24	0.53
1:a:564:GLU:OE1	1:a:729:ARG:HB2	2.09	0.53
1:b:295:ASP:OD1	1:b:298:ARG:NH1	2.42	0.53
1:b:416:GLU:CG	1:b:417:ASP:H	2.17	0.53
1:d:247:TRP:NE1	1:d:677:GLN:O	2.34	0.53
1:d:295:ASP:OD1	1:d:298:ARG:NH1	2.42	0.53
1:d:564:GLU:OE1	1:d:729:ARG:HB2	2.09	0.53
1:f:571:VAL:HG12	1:f:572:ALA:N	2.23	0.53
1:j:601:LEU:HB3	1:j:604:MET:HE2	1.90	0.53
1:l:295:ASP:OD1	1:l:298:ARG:NH1	2.42	0.53
1:o:564:GLU:OE1	1:o:729:ARG:HB2	2.09	0.53
1:o:693:ARG:NH1	1:p:391:SER:HA	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:413:TYR:OH	1:p:641:HIS:O	2.24	0.53
1:p:656:ASN:HD22	1:6:323:VAL:HG21	1.74	0.53
1:t:416:GLU:OE1	1:t:416:GLU:N	2.28	0.53
1:t:523:MET:HG3	1:t:524:ALA:CB	2.39	0.53
1:t:658:SER:O	1:t:659:THR:OG1	2.27	0.53
1:u:350:LEU:HG	1:u:351:PRO:HD2	1.88	0.53
1:x:571:VAL:HG12	1:x:572:ALA:N	2.23	0.53
1:y:523:MET:HG3	1:y:524:ALA:CB	2.39	0.53
1:z:295:ASP:OD1	1:z:298:ARG:NH1	2.42	0.53
1:2:394:CYS:O	1:2:395:LEU:HB2	2.08	0.53
1:3:441:TYR:HA	1:3:464:GLN:NE2	2.24	0.53
1:3:571:VAL:HG12	1:3:572:ALA:N	2.23	0.53
1:4:601:LEU:HB3	1:4:604:MET:HE2	1.90	0.53
1:5:523:MET:HG3	1:5:524:ALA:CB	2.39	0.53
1:5:564:GLU:OE1	1:5:729:ARG:HB2	2.08	0.53
1:6:441:TYR:HA	1:6:464:GLN:NE2	2.24	0.53
1:8:564:GLU:OE1	1:8:729:ARG:HB2	2.09	0.53
1:A:564:GLU:OE1	1:A:729:ARG:HB2	2.09	0.53
1:B:441:TYR:HA	1:B:464:GLN:NE2	2.24	0.53
1:B:571:VAL:HG12	1:B:572:ALA:N	2.23	0.53
1:C:326:ASN:O	1:C:329:THR:OG1	2.19	0.53
1:C:571:VAL:HG12	1:C:572:ALA:N	2.23	0.53
1:C:579:VAL:HG22	1:b:484:ARG:HB2	1.90	0.53
1:E:441:TYR:HA	1:E:464:GLN:NE2	2.24	0.53
1:E:577:GLY:HA3	1:Q:508:TYR:HA	1.91	0.53
1:F:441:TYR:HA	1:F:464:GLN:NE2	2.24	0.53
1:G:313:PHE:HD1	1:G:680:VAL:HG12	1.74	0.53
1:L:523:MET:HG3	1:L:524:ALA:CB	2.39	0.53
1:L:601:LEU:HB3	1:L:604:MET:HE2	1.90	0.53
1:M:508:TYR:HA	1:b:577:GLY:HA3	1.91	0.53
1:M:523:MET:HG3	1:M:524:ALA:CB	2.39	0.53
1:N:416:GLU:OE1	1:N:416:GLU:N	2.28	0.53
1:N:564:GLU:OE1	1:N:729:ARG:HB2	2.08	0.53
1:R:523:MET:HG3	1:R:524:ALA:CB	2.39	0.53
1:S:350:LEU:HG	1:S:351:PRO:HD2	1.88	0.53
1:S:579:VAL:HG22	1:U:484:ARG:HB2	1.90	0.53
1:V:508:TYR:HA	1:X:577:GLY:HA3	1.91	0.53
1:W:523:MET:HG3	1:W:524:ALA:CB	2.39	0.53
1:Z:601:LEU:HB3	1:Z:604:MET:HE2	1.90	0.53
1:b:571:VAL:HG12	1:b:572:ALA:N	2.23	0.53
1:e:326:ASN:O	1:e:329:THR:OG1	2.19	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:394:CYS:O	1:e:395:LEU:HB2	2.08	0.53
1:e:581:THR:N	1:e:591:ALA:O	2.37	0.53
1:f:601:LEU:HB3	1:f:604:MET:HE2	1.90	0.53
1:l:571:VAL:HG12	1:l:572:ALA:N	2.23	0.53
1:n:601:LEU:HB3	1:n:604:MET:HE2	1.90	0.53
1:p:313:PHE:HD1	1:p:680:VAL:HG12	1.74	0.53
1:q:441:TYR:HA	1:q:464:GLN:NE2	2.24	0.53
1:s:571:VAL:HG12	1:s:572:ALA:N	2.23	0.53
1:t:394:CYS:O	1:t:395:LEU:HB2	2.08	0.53
1:u:295:ASP:OD1	1:u:298:ARG:NH1	2.42	0.53
1:u:579:VAL:HG22	1:v:484:ARG:HB2	1.90	0.53
1:w:394:CYS:O	1:w:395:LEU:HB2	2.08	0.53
1:x:523:MET:HG3	1:x:524:ALA:CB	2.39	0.53
1:x:577:GLY:HA3	1:y:508:TYR:HA	1.91	0.53
1:z:601:LEU:HB3	1:z:604:MET:HE2	1.90	0.53
1:1:441:TYR:HA	1:1:464:GLN:NE2	2.24	0.53
1:1:449:ASN:O	1:1:450:THR:OG1	2.20	0.53
1:2:295:ASP:OD1	1:2:298:ARG:NH1	2.42	0.53
1:4:247:TRP:NE1	1:4:677:GLN:O	2.34	0.53
1:5:508:TYR:HA	1:7:577:GLY:HA3	1.91	0.53
1:A:441:TYR:HA	1:A:464:GLN:NE2	2.24	0.53
1:B:577:GLY:HA3	1:J:508:TYR:HA	1.91	0.53
1:C:394:CYS:O	1:C:395:LEU:HB2	2.08	0.53
1:C:601:LEU:HB3	1:C:604:MET:HE2	1.90	0.53
1:D:313:PHE:HD1	1:D:680:VAL:HG12	1.74	0.53
1:D:508:TYR:HA	1:P:577:GLY:HA3	1.91	0.53
1:G:413:TYR:OH	1:G:641:HIS:O	2.24	0.53
1:G:581:THR:N	1:G:591:ALA:O	2.37	0.53
1:H:571:VAL:HG12	1:H:572:ALA:N	2.23	0.53
1:J:523:MET:HG3	1:J:524:ALA:CB	2.39	0.53
1:L:313:PHE:HD1	1:L:680:VAL:HG12	1.74	0.53
1:P:564:GLU:OE1	1:P:729:ARG:HB2	2.09	0.53
1:R:484:ARG:HB2	1:U:579:VAL:HG22	1.90	0.53
1:S:247:TRP:NE1	1:S:677:GLN:O	2.34	0.53
1:T:484:ARG:HB2	1:l:579:VAL:HG22	1.89	0.53
1:W:326:ASN:O	1:W:329:THR:OG1	2.19	0.53
1:W:577:GLY:HA3	1:Y:508:TYR:HA	1.91	0.53
1:X:571:VAL:HG12	1:X:572:ALA:N	2.23	0.53
1:b:441:TYR:HA	1:b:464:GLN:NE2	2.24	0.53
1:c:715:ASP:OD1	1:c:716:THR:N	2.38	0.53
1:d:523:MET:HG3	1:d:524:ALA:CB	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:564:GLU:OE1	1:h:729:ARG:HB2	2.08	0.53
1:i:577:GLY:HA3	1:j:508:TYR:HA	1.91	0.53
1:j:523:MET:HG3	1:j:524:ALA:CB	2.39	0.53
1:k:564:GLU:OE1	1:k:729:ARG:HB2	2.08	0.53
1:k:601:LEU:HB3	1:k:604:MET:HE2	1.90	0.53
1:l:564:GLU:OE1	1:l:729:ARG:HB2	2.08	0.53
1:l:715:ASP:OD1	1:l:716:THR:N	2.38	0.53
1:m:577:GLY:HA3	1:n:508:TYR:HA	1.90	0.53
1:m:601:LEU:HB3	1:m:604:MET:HE2	1.90	0.53
1:m:693:ARG:NH1	1:n:391:SER:HA	2.24	0.53
1:o:416:GLU:CG	1:o:417:ASP:H	2.17	0.53
1:o:441:TYR:HA	1:o:464:GLN:NE2	2.24	0.53
1:p:295:ASP:OD1	1:p:298:ARG:NH1	2.42	0.53
1:q:394:CYS:O	1:q:395:LEU:HB2	2.07	0.53
1:t:484:ARG:HB2	1:v:579:VAL:HG22	1.90	0.53
1:u:564:GLU:OE1	1:u:729:ARG:HB2	2.09	0.53
1:v:601:LEU:HB3	1:v:604:MET:HE2	1.90	0.53
1:z:571:VAL:HG12	1:z:572:ALA:N	2.23	0.53
1:2:523:MET:HG3	1:2:524:ALA:CB	2.39	0.53
1:3:601:LEU:HB3	1:3:604:MET:HE2	1.90	0.53
1:3:609:ARG:HG2	1:3:610:ASP:N	2.22	0.53
1:6:579:VAL:HG22	1:7:484:ARG:HB2	1.90	0.53
1:7:441:TYR:HA	1:7:464:GLN:NE2	2.24	0.53
1:C:295:ASP:OD1	1:C:298:ARG:NH1	2.42	0.53
1:D:247:TRP:NE1	1:D:677:GLN:O	2.34	0.53
1:G:295:ASP:OD1	1:G:298:ARG:NH1	2.42	0.53
1:G:579:VAL:HG22	1:I:484:ARG:HB2	1.90	0.53
1:I:438:ILE:HG22	1:I:439:ASP:N	2.24	0.53
1:I:601:LEU:HB3	1:I:604:MET:HE2	1.90	0.53
1:K:313:PHE:HD1	1:K:680:VAL:HG12	1.74	0.53
1:L:571:VAL:HG12	1:L:572:ALA:N	2.23	0.53
1:O:609:ARG:HG2	1:O:610:ASP:N	2.22	0.53
1:P:313:PHE:HD1	1:P:680:VAL:HG12	1.74	0.53
1:S:564:GLU:OE1	1:S:729:ARG:HB2	2.08	0.53
1:U:601:LEU:HB3	1:U:604:MET:HE2	1.90	0.53
1:V:394:CYS:O	1:V:395:LEU:HB2	2.08	0.53
1:V:601:LEU:HB3	1:V:604:MET:HE2	1.90	0.53
1:V:693:ARG:NH1	1:e:391:SER:HA	2.24	0.53
1:W:361:CYS:SG	1:W:362:LEU:N	2.72	0.53
1:W:394:CYS:O	1:W:395:LEU:HB2	2.08	0.53
1:W:571:VAL:HG12	1:W:572:ALA:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:295:ASP:OD1	1:Y:298:ARG:NH1	2.42	0.53
1:a:295:ASP:OD1	1:a:298:ARG:NH1	2.42	0.53
1:a:582:ASN:OD1	1:a:591:ALA:N	2.35	0.53
1:b:564:GLU:OE1	1:b:729:ARG:HB2	2.08	0.53
1:d:545:GLN:OE1	1:d:545:GLN:N	2.34	0.53
1:f:579:VAL:HG22	1:h:484:ARG:HB2	1.90	0.53
1:h:441:TYR:HA	1:h:464:GLN:NE2	2.24	0.53
1:j:438:ILE:HG22	1:j:439:ASP:N	2.24	0.53
1:j:579:VAL:HG22	1:k:484:ARG:HB2	1.90	0.53
1:m:247:TRP:NE1	1:m:677:GLN:O	2.34	0.53
1:m:394:CYS:O	1:m:395:LEU:HB2	2.08	0.53
1:m:441:TYR:HA	1:m:464:GLN:NE2	2.24	0.53
1:n:247:TRP:NE1	1:n:677:GLN:O	2.34	0.53
1:p:581:THR:N	1:p:591:ALA:O	2.37	0.53
1:q:361:CYS:SG	1:q:362:LEU:N	2.72	0.53
1:q:571:VAL:HG12	1:q:572:ALA:N	2.23	0.53
1:r:295:ASP:OD1	1:r:298:ARG:NH1	2.42	0.53
1:s:441:TYR:HA	1:s:464:GLN:NE2	2.24	0.53
1:t:259:GLN:HA	1:t:275:TYR:HD1	1.74	0.53
1:t:441:TYR:HA	1:t:464:GLN:NE2	2.24	0.53
1:t:579:VAL:HG22	1:u:484:ARG:HB2	1.90	0.53
1:z:508:TYR:HA	1:2:577:GLY:HA3	1.91	0.53
1:z:579:VAL:HG22	1:1:484:ARG:HB2	1.89	0.53
1:z:715:ASP:OD1	1:z:716:THR:N	2.38	0.53
1:4:259:GLN:HA	1:4:275:TYR:HD1	1.74	0.53
1:8:658:SER:O	1:8:659:THR:OG1	2.27	0.53
1:A:259:GLN:HA	1:A:275:TYR:HD1	1.74	0.53
1:A:295:ASP:OD1	1:A:298:ARG:NH1	2.42	0.53
1:A:416:GLU:CG	1:A:417:ASP:H	2.17	0.53
1:B:394:CYS:O	1:B:395:LEU:HB2	2.08	0.53
1:B:564:GLU:OE1	1:B:729:ARG:HB2	2.09	0.53
1:C:438:ILE:HG22	1:C:439:ASP:N	2.24	0.53
1:G:259:GLN:HA	1:G:275:TYR:HD1	1.74	0.53
1:I:523:MET:HG3	1:I:524:ALA:CB	2.39	0.53
1:I:715:ASP:OD1	1:I:716:THR:N	2.38	0.53
1:L:295:ASP:OD1	1:L:298:ARG:NH1	2.42	0.53
1:L:394:CYS:O	1:L:395:LEU:HB2	2.08	0.53
1:M:391:SER:HA	1:b:693:ARG:NH1	2.24	0.53
1:N:295:ASP:OD1	1:N:298:ARG:NH1	2.42	0.53
1:O:545:GLN:OE1	1:O:545:GLN:N	2.34	0.53
1:O:577:GLY:HA3	1:m:508:TYR:HA	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:438:ILE:HG22	1:P:439:ASP:N	2.24	0.53
1:P:658:SER:O	1:P:659:THR:OG1	2.27	0.53
1:R:259:GLN:HA	1:R:275:TYR:HD1	1.74	0.53
1:R:579:VAL:HG22	1:S:484:ARG:HB2	1.90	0.53
1:U:394:CYS:O	1:U:395:LEU:HB2	2.08	0.53
1:X:564:GLU:OE1	1:X:729:ARG:HB2	2.09	0.53
1:Z:247:TRP:NE1	1:Z:677:GLN:O	2.34	0.53
1:Z:441:TYR:HA	1:Z:464:GLN:NE2	2.24	0.53
1:Z:508:TYR:HA	1:3:577:GLY:HA3	1.91	0.53
1:a:313:PHE:HD1	1:a:680:VAL:HG12	1.74	0.53
1:a:579:VAL:HG22	1:8:484:ARG:HB2	1.90	0.53
1:b:259:GLN:HA	1:b:275:TYR:HD1	1.74	0.53
1:c:259:GLN:HB3	1:s:715:ASP:O	2.09	0.53
1:c:438:ILE:HG22	1:c:439:ASP:N	2.24	0.53
1:f:295:ASP:OD1	1:f:298:ARG:NH1	2.42	0.53
1:f:438:ILE:HG22	1:f:439:ASP:N	2.24	0.53
1:f:523:MET:HG3	1:f:524:ALA:CB	2.39	0.53
1:g:295:ASP:OD1	1:g:298:ARG:NH1	2.42	0.53
1:h:601:LEU:HB3	1:h:604:MET:HE2	1.90	0.53
1:i:295:ASP:OD1	1:i:298:ARG:NH1	2.42	0.53
1:k:441:TYR:HA	1:k:464:GLN:NE2	2.24	0.53
1:l:601:LEU:HB3	1:l:604:MET:HE2	1.90	0.53
1:p:438:ILE:HG22	1:p:439:ASP:N	2.24	0.53
1:q:577:GLY:HA3	1:r:508:TYR:HA	1.91	0.53
1:r:259:GLN:HA	1:r:275:TYR:HD1	1.74	0.53
1:s:247:TRP:NE1	1:s:677:GLN:O	2.34	0.53
1:u:416:GLU:CG	1:u:417:ASP:H	2.17	0.53
1:w:313:PHE:HD1	1:w:680:VAL:HG12	1.74	0.53
1:w:564:GLU:OE1	1:w:729:ARG:HB2	2.08	0.53
1:y:394:CYS:O	1:y:395:LEU:HB2	2.08	0.53
1:z:564:GLU:OE1	1:z:729:ARG:HB2	2.08	0.53
1:4:441:TYR:HA	1:4:464:GLN:NE2	2.24	0.53
1:8:438:ILE:HG22	1:8:439:ASP:N	2.24	0.53
1:8:601:LEU:HB3	1:8:604:MET:HE2	1.90	0.53
1:A:313:PHE:HD1	1:A:680:VAL:HG12	1.74	0.52
1:A:508:TYR:HA	1:I:577:GLY:HA3	1.91	0.52
1:B:259:GLN:HA	1:B:275:TYR:HD1	1.74	0.52
1:D:438:ILE:HG22	1:D:439:ASP:N	2.24	0.52
1:F:523:MET:HG3	1:F:524:ALA:CB	2.39	0.52
1:G:438:ILE:HG22	1:G:439:ASP:N	2.24	0.52
1:G:523:MET:HG3	1:G:524:ALA:CB	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:438:ILE:HG22	1:H:439:ASP:N	2.24	0.52
1:H:523:MET:HG3	1:H:524:ALA:CB	2.39	0.52
1:H:601:LEU:HB3	1:H:604:MET:HE2	1.90	0.52
1:H:693:ARG:NH1	1:W:391:SER:HA	2.24	0.52
1:J:438:ILE:HG22	1:J:439:ASP:N	2.24	0.52
1:K:438:ILE:HG22	1:K:439:ASP:N	2.24	0.52
1:L:438:ILE:HG22	1:L:439:ASP:N	2.24	0.52
1:M:438:ILE:HG22	1:M:439:ASP:N	2.24	0.52
1:N:313:PHE:HD1	1:N:680:VAL:HG12	1.74	0.52
1:P:601:LEU:HB3	1:P:604:MET:HE2	1.90	0.52
1:Q:452:SER:OG	1:Q:456:THR:O	2.27	0.52
1:S:571:VAL:HG12	1:S:572:ALA:N	2.23	0.52
1:U:438:ILE:HG22	1:U:439:ASP:N	2.24	0.52
1:U:564:GLU:OE1	1:U:729:ARG:HB2	2.08	0.52
1:W:438:ILE:HG22	1:W:439:ASP:N	2.24	0.52
1:W:693:ARG:NH1	1:Y:391:SER:HA	2.25	0.52
1:X:247:TRP:NE1	1:X:677:GLN:O	2.34	0.52
1:X:484:ARG:HB2	1:e:579:VAL:HG22	1.90	0.52
1:Y:259:GLN:HA	1:Y:275:TYR:HD1	1.74	0.52
1:Z:259:GLN:HA	1:Z:275:TYR:HD1	1.74	0.52
1:Z:394:CYS:O	1:Z:395:LEU:HB2	2.08	0.52
1:Z:438:ILE:HG22	1:Z:439:ASP:N	2.24	0.52
1:b:394:CYS:O	1:b:395:LEU:HB2	2.08	0.52
1:c:523:MET:HG3	1:c:524:ALA:CB	2.39	0.52
1:c:579:VAL:HG22	1:o:484:ARG:HB2	1.91	0.52
1:e:313:PHE:HD1	1:e:680:VAL:HG12	1.74	0.52
1:e:438:ILE:HG22	1:e:439:ASP:N	2.24	0.52
1:e:564:GLU:OE1	1:e:729:ARG:HB2	2.08	0.52
1:j:295:ASP:OD1	1:j:298:ARG:NH1	2.42	0.52
1:m:259:GLN:HA	1:m:275:TYR:HD1	1.74	0.52
1:m:438:ILE:HG22	1:m:439:ASP:N	2.24	0.52
1:n:259:GLN:HA	1:n:275:TYR:HD1	1.74	0.52
1:n:441:TYR:HA	1:n:464:GLN:NE2	2.24	0.52
1:o:259:GLN:HA	1:o:275:TYR:HD1	1.74	0.52
1:o:295:ASP:OD1	1:o:298:ARG:NH1	2.42	0.52
1:p:259:GLN:HA	1:p:275:TYR:HD1	1.74	0.52
1:q:693:ARG:NH1	1:r:391:SER:HA	2.24	0.52
1:s:438:ILE:HG22	1:s:439:ASP:N	2.24	0.52
1:v:394:CYS:O	1:v:395:LEU:HB2	2.08	0.52
1:v:438:ILE:HG22	1:v:439:ASP:N	2.24	0.52
1:v:564:GLU:OE1	1:v:729:ARG:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:391:SER:HA	1:y:693:ARG:NH1	2.24	0.52
1:w:693:ARG:NH1	1:x:391:SER:HA	2.24	0.52
1:x:438:ILE:HG22	1:x:439:ASP:N	2.24	0.52
1:x:564:GLU:OE1	1:x:729:ARG:HB2	2.08	0.52
1:y:601:LEU:HB3	1:y:604:MET:HE2	1.90	0.52
1:z:584:GLN:OE1	1:z:584:GLN:N	2.43	0.52
1:1:609:ARG:HG2	1:1:610:ASP:N	2.22	0.52
1:5:438:ILE:HG22	1:5:439:ASP:N	2.24	0.52
1:6:523:MET:HG3	1:6:524:ALA:CB	2.39	0.52
1:8:313:PHE:HD1	1:8:680:VAL:HG12	1.74	0.52
1:B:693:ARG:NH1	1:J:391:SER:HA	2.24	0.52
1:E:295:ASP:OD1	1:E:298:ARG:NH1	2.42	0.52
1:F:584:GLN:OE1	1:F:584:GLN:N	2.43	0.52
1:H:441:TYR:HA	1:H:464:GLN:NE2	2.24	0.52
1:I:313:PHE:HD1	1:I:680:VAL:HG12	1.74	0.52
1:K:247:TRP:NE1	1:K:677:GLN:O	2.34	0.52
1:L:361:CYS:SG	1:L:362:LEU:N	2.72	0.52
1:N:259:GLN:HA	1:N:275:TYR:HD1	1.74	0.52
1:N:579:VAL:HG22	1:P:484:ARG:HB2	1.90	0.52
1:P:441:TYR:HA	1:P:464:GLN:NE2	2.24	0.52
1:Q:438:ILE:HG22	1:Q:439:ASP:N	2.24	0.52
1:Q:441:TYR:HA	1:Q:464:GLN:NE2	2.24	0.52
1:S:438:ILE:HG22	1:S:439:ASP:N	2.24	0.52
1:S:441:TYR:HA	1:S:464:GLN:NE2	2.24	0.52
1:T:391:SER:HA	1:l:693:ARG:NH1	2.24	0.52
1:a:259:GLN:HA	1:a:275:TYR:HD1	1.74	0.52
1:a:416:GLU:OE1	1:a:416:GLU:N	2.28	0.52
1:c:601:LEU:HB3	1:c:604:MET:HE2	1.90	0.52
1:g:313:PHE:HD1	1:g:680:VAL:HG12	1.74	0.52
1:i:438:ILE:HG22	1:i:439:ASP:N	2.24	0.52
1:l:584:GLN:OE1	1:l:584:GLN:N	2.43	0.52
1:m:581:THR:N	1:m:591:ALA:O	2.37	0.52
1:p:523:MET:HG3	1:p:524:ALA:CB	2.39	0.52
1:q:438:ILE:HG22	1:q:439:ASP:N	2.24	0.52
1:r:394:CYS:O	1:r:395:LEU:HB2	2.08	0.52
1:s:601:LEU:HB3	1:s:604:MET:HE2	1.90	0.52
1:u:577:GLY:HA3	1:v:508:TYR:HA	1.91	0.52
1:w:579:VAL:HG22	1:x:484:ARG:HB2	1.90	0.52
1:x:247:TRP:NE1	1:x:677:GLN:O	2.34	0.52
1:z:391:SER:HA	1:2:693:ARG:NH1	2.23	0.52
1:2:581:THR:N	1:2:591:ALA:O	2.37	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:438:ILE:HG22	1:4:439:ASP:N	2.24	0.52
1:5:313:PHE:HD1	1:5:680:VAL:HG12	1.74	0.52
1:5:577:GLY:HA3	1:6:508:TYR:HA	1.91	0.52
1:6:584:GLN:OE1	1:6:584:GLN:N	2.43	0.52
1:7:259:GLN:HA	1:7:275:TYR:HD1	1.74	0.52
1:8:259:GLN:HA	1:8:275:TYR:HD1	1.74	0.52
1:8:441:TYR:HA	1:8:464:GLN:NE2	2.24	0.52
1:E:259:GLN:HA	1:E:275:TYR:HD1	1.74	0.52
1:E:693:ARG:NH1	1:Q:391:SER:HA	2.25	0.52
1:H:508:TYR:HA	1:Y:577:GLY:HA3	1.91	0.52
1:I:394:CYS:O	1:I:395:LEU:HB2	2.08	0.52
1:N:523:MET:HG3	1:N:524:ALA:CB	2.39	0.52
1:P:247:TRP:NE1	1:P:677:GLN:O	2.34	0.52
1:P:259:GLN:HA	1:P:275:TYR:HD1	1.74	0.52
1:Q:584:GLN:OE1	1:Q:584:GLN:N	2.43	0.52
1:X:438:ILE:HG22	1:X:439:ASP:N	2.24	0.52
1:X:581:THR:N	1:X:591:ALA:O	2.37	0.52
1:a:523:MET:HG3	1:a:524:ALA:CB	2.39	0.52
1:a:577:GLY:HA3	1:8:508:TYR:HA	1.91	0.52
1:b:609:ARG:HG2	1:b:610:ASP:N	2.22	0.52
1:c:394:CYS:O	1:c:395:LEU:HB2	2.08	0.52
1:c:581:THR:N	1:c:591:ALA:O	2.37	0.52
1:d:581:THR:N	1:d:591:ALA:O	2.37	0.52
1:f:508:TYR:HA	1:g:577:GLY:HA3	1.91	0.52
1:g:438:ILE:HG22	1:g:439:ASP:N	2.24	0.52
1:h:313:PHE:HD1	1:h:680:VAL:HG12	1.74	0.52
1:i:413:TYR:OH	1:i:641:HIS:O	2.23	0.52
1:n:438:ILE:HG22	1:n:439:ASP:N	2.24	0.52
1:o:313:PHE:HD1	1:o:680:VAL:HG12	1.74	0.52
1:o:579:VAL:HG22	1:p:484:ARG:HB2	1.92	0.52
1:q:313:PHE:HD1	1:q:680:VAL:HG12	1.74	0.52
1:s:313:PHE:HD1	1:s:680:VAL:HG12	1.74	0.52
1:s:523:MET:HG3	1:s:524:ALA:CB	2.39	0.52
1:t:508:TYR:HA	1:v:577:GLY:HA3	1.91	0.52
1:t:577:GLY:HA3	1:u:508:TYR:HA	1.91	0.52
1:u:438:ILE:HG22	1:u:439:ASP:N	2.24	0.52
1:u:441:TYR:HA	1:u:464:GLN:NE2	2.24	0.52
1:u:571:VAL:HG12	1:u:572:ALA:N	2.23	0.52
1:x:429:SER:OG	1:x:431:ASP:OD1	2.18	0.52
1:2:545:GLN:OE1	1:2:545:GLN:N	2.34	0.52
1:3:508:TYR:HA	1:4:577:GLY:HA3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:391:SER:HA	1:7:693:ARG:NH1	2.25	0.52
1:5:441:TYR:HA	1:5:464:GLN:NE2	2.24	0.52
1:5:452:SER:OG	1:5:456:THR:O	2.27	0.52
1:5:584:GLN:OE1	1:5:584:GLN:N	2.43	0.52
1:7:295:ASP:OD1	1:7:298:ARG:NH1	2.42	0.52
1:B:438:ILE:HG22	1:B:439:ASP:N	2.24	0.52
1:B:609:ARG:HG2	1:B:610:ASP:N	2.22	0.52
1:C:361:CYS:SG	1:C:362:LEU:N	2.72	0.52
1:C:564:GLU:OE1	1:C:729:ARG:HB2	2.08	0.52
1:H:268:ASN:HA	1:H:271:HIS:NE2	2.25	0.52
1:J:259:GLN:HA	1:J:275:TYR:HD1	1.74	0.52
1:J:268:ASN:HA	1:J:271:HIS:NE2	2.25	0.52
1:K:441:TYR:HA	1:K:464:GLN:NE2	2.24	0.52
1:N:577:GLY:HA3	1:P:508:TYR:HA	1.91	0.52
1:O:391:SER:HA	1:n:693:ARG:NH1	2.24	0.52
1:O:693:ARG:NH1	1:m:391:SER:HA	2.25	0.52
1:Q:313:PHE:HD1	1:Q:680:VAL:HG12	1.74	0.52
1:Q:416:GLU:CG	1:Q:417:ASP:H	2.17	0.52
1:T:508:TYR:HA	1:l:577:GLY:HA3	1.91	0.52
1:U:523:MET:HG3	1:U:524:ALA:CB	2.39	0.52
1:V:295:ASP:OD1	1:V:298:ARG:NH1	2.42	0.52
1:W:313:PHE:HD1	1:W:680:VAL:HG12	1.74	0.52
1:X:391:SER:HA	1:e:693:ARG:NH1	2.24	0.52
1:Y:394:CYS:O	1:Y:395:LEU:HB2	2.08	0.52
1:Y:584:GLN:OE1	1:Y:584:GLN:N	2.43	0.52
1:Z:391:SER:HA	1:3:693:ARG:NH1	2.25	0.52
1:Z:581:THR:N	1:Z:591:ALA:O	2.37	0.52
1:b:313:PHE:HD1	1:b:680:VAL:HG12	1.74	0.52
1:b:438:ILE:HG22	1:b:439:ASP:N	2.24	0.52
1:c:313:PHE:HD1	1:c:680:VAL:HG12	1.74	0.52
1:c:518:ASN:HB2	1:p:474:SER:HA	1.90	0.52
1:d:441:TYR:HA	1:d:464:GLN:NE2	2.24	0.52
1:f:429:SER:OG	1:f:431:ASP:OD1	2.18	0.52
1:f:484:ARG:HB2	1:g:579:VAL:HG22	1.90	0.52
1:h:259:GLN:HA	1:h:275:TYR:HD1	1.74	0.52
1:i:313:PHE:HD1	1:i:680:VAL:HG12	1.74	0.52
1:k:584:GLN:OE1	1:k:584:GLN:N	2.43	0.52
1:l:438:ILE:HG22	1:l:439:ASP:N	2.24	0.52
1:n:582:ASN:OD1	1:n:591:ALA:N	2.35	0.52
1:o:601:LEU:HB3	1:o:604:MET:HE2	1.90	0.52
1:p:416:GLU:CG	1:p:417:ASP:H	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:259:GLN:HA	1:s:275:TYR:HD1	1.74	0.52
1:u:259:GLN:HA	1:u:275:TYR:HD1	1.74	0.52
1:u:545:GLN:OE1	1:u:545:GLN:N	2.34	0.52
1:u:701:THR:OG1	1:1:698:ILE:O	2.17	0.52
1:w:438:ILE:HG22	1:w:439:ASP:N	2.25	0.52
1:x:581:THR:N	1:x:591:ALA:O	2.37	0.52
1:y:564:GLU:OE1	1:y:729:ARG:HB2	2.09	0.52
1:z:438:ILE:HG22	1:z:439:ASP:N	2.24	0.52
1:1:295:ASP:OD1	1:1:298:ARG:NH1	2.42	0.52
1:1:577:GLY:HA3	1:2:508:TYR:HA	1.91	0.52
1:3:545:GLN:OE1	1:3:545:GLN:N	2.34	0.52
1:8:523:MET:HG3	1:8:524:ALA:CB	2.39	0.52
1:D:441:TYR:HA	1:D:464:GLN:NE2	2.24	0.52
1:F:295:ASP:OD1	1:F:298:ARG:NH1	2.42	0.52
1:H:247:TRP:NE1	1:H:677:GLN:O	2.34	0.52
1:H:259:GLN:HA	1:H:275:TYR:HD1	1.74	0.52
1:H:313:PHE:HD1	1:H:680:VAL:HG12	1.74	0.52
1:J:295:ASP:OD1	1:J:298:ARG:NH1	2.42	0.52
1:K:523:MET:HG3	1:K:524:ALA:CB	2.39	0.52
1:M:259:GLN:HA	1:M:275:TYR:HD1	1.74	0.52
1:M:268:ASN:HA	1:M:271:HIS:NE2	2.25	0.52
1:M:295:ASP:OD1	1:M:298:ARG:NH1	2.42	0.52
1:O:413:TYR:OH	1:O:641:HIS:O	2.23	0.52
1:P:523:MET:HG3	1:P:524:ALA:CB	2.39	0.52
1:Q:429:SER:OG	1:Q:431:ASP:OD1	2.18	0.52
1:Q:449:ASN:O	1:Q:450:THR:OG1	2.20	0.52
1:R:295:ASP:OD1	1:R:298:ARG:NH1	2.42	0.52
1:R:577:GLY:HA3	1:S:508:TYR:HA	1.91	0.52
1:S:268:ASN:HA	1:S:271:HIS:NE2	2.25	0.52
1:V:438:ILE:HG22	1:V:439:ASP:N	2.24	0.52
1:Y:523:MET:HG3	1:Y:524:ALA:CB	2.39	0.52
1:Z:313:PHE:HD1	1:Z:680:VAL:HG12	1.74	0.52
1:Z:693:ARG:NH1	1:4:391:SER:HA	2.25	0.52
1:c:577:GLY:HA3	1:o:508:TYR:HA	1.92	0.52
1:d:577:GLY:HA3	1:l:508:TYR:HA	1.91	0.52
1:h:295:ASP:OD1	1:h:298:ARG:NH1	2.42	0.52
1:h:394:CYS:O	1:h:395:LEU:HB2	2.08	0.52
1:h:584:GLN:OE1	1:h:584:GLN:N	2.43	0.52
1:i:579:VAL:HG22	1:j:484:ARG:HB2	1.90	0.52
1:j:429:SER:OG	1:j:431:ASP:OD1	2.18	0.52
1:k:295:ASP:OD1	1:k:298:ARG:NH1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:394:CYS:O	1:k:395:LEU:HB2	2.08	0.52
1:l:268:ASN:HA	1:l:271:HIS:NE2	2.25	0.52
1:l:441:TYR:HA	1:l:464:GLN:NE2	2.24	0.52
1:n:564:GLU:OE1	1:n:729:ARG:HB2	2.08	0.52
1:r:582:ASN:OD1	1:r:591:ALA:N	2.35	0.52
1:r:584:GLN:OE1	1:r:584:GLN:N	2.43	0.52
1:s:268:ASN:HA	1:s:271:HIS:NE2	2.25	0.52
1:v:268:ASN:HA	1:v:271:HIS:NE2	2.25	0.52
1:y:295:ASP:OD1	1:y:298:ARG:NH1	2.42	0.52
1:z:268:ASN:HA	1:z:271:HIS:NE2	2.25	0.52
1:1:579:VAL:HG22	1:2:484:ARG:HB2	1.91	0.52
1:2:259:GLN:HA	1:2:275:TYR:HD1	1.74	0.52
1:6:295:ASP:OD1	1:6:298:ARG:NH1	2.42	0.52
1:7:564:GLU:OE1	1:7:729:ARG:HB2	2.08	0.52
1:A:601:LEU:HB3	1:A:604:MET:HE2	1.90	0.52
1:A:703:ASN:OD1	1:A:704:TYR:N	2.43	0.52
1:I:564:GLU:OE1	1:I:729:ARG:HB2	2.09	0.52
1:K:259:GLN:HA	1:K:275:TYR:HD1	1.74	0.52
1:K:577:GLY:HA3	1:a:508:TYR:HA	1.91	0.52
1:L:564:GLU:OE1	1:L:729:ARG:HB2	2.08	0.52
1:N:703:ASN:OD1	1:N:704:TYR:N	2.43	0.52
1:O:247:TRP:NE1	1:O:677:GLN:O	2.34	0.52
1:O:564:GLU:OE1	1:O:729:ARG:HB2	2.09	0.52
1:P:268:ASN:HA	1:P:271:HIS:NE2	2.25	0.52
1:Q:703:ASN:OD1	1:Q:704:TYR:N	2.43	0.52
1:S:259:GLN:HA	1:S:275:TYR:HD1	1.74	0.52
1:S:452:SER:OG	1:S:456:THR:O	2.27	0.52
1:T:295:ASP:OD1	1:T:298:ARG:NH1	2.42	0.52
1:U:268:ASN:HA	1:U:271:HIS:NE2	2.25	0.52
1:U:441:TYR:HA	1:U:464:GLN:NE2	2.24	0.52
1:V:564:GLU:OE1	1:V:729:ARG:HB2	2.08	0.52
1:W:268:ASN:HA	1:W:271:HIS:NE2	2.25	0.52
1:Z:268:ASN:HA	1:Z:271:HIS:NE2	2.25	0.52
1:a:693:ARG:NH1	1:8:391:SER:HA	2.24	0.52
1:a:703:ASN:OD1	1:a:704:TYR:N	2.43	0.52
1:b:715:ASP:O	1:o:259:GLN:HB3	2.10	0.52
1:h:703:ASN:OD1	1:h:704:TYR:N	2.43	0.52
1:k:259:GLN:HA	1:k:275:TYR:HD1	1.74	0.52
1:k:313:PHE:HD1	1:k:680:VAL:HG12	1.74	0.52
1:k:703:ASN:OD1	1:k:704:TYR:N	2.43	0.52
1:o:571:VAL:HG12	1:o:572:ALA:N	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:601:LEU:HB3	1:p:604:MET:HE2	1.90	0.52
1:r:523:MET:HG3	1:r:524:ALA:CB	2.39	0.52
1:r:577:GLY:HA3	1:s:508:TYR:HA	1.92	0.52
1:r:658:SER:O	1:r:659:THR:OG1	2.27	0.52
1:s:715:ASP:OD1	1:s:716:THR:N	2.38	0.52
1:t:295:ASP:OD1	1:t:298:ARG:NH1	2.42	0.52
1:u:268:ASN:HA	1:u:271:HIS:NE2	2.25	0.52
1:u:452:SER:OG	1:u:456:THR:O	2.27	0.52
1:v:523:MET:HG3	1:v:524:ALA:CB	2.39	0.52
1:y:438:ILE:HG22	1:y:439:ASP:N	2.24	0.52
1:z:416:GLU:OE1	1:z:416:GLU:N	2.28	0.52
1:z:441:TYR:HA	1:z:464:GLN:NE2	2.24	0.52
1:2:441:TYR:HA	1:2:464:GLN:NE2	2.24	0.52
1:3:247:TRP:NE1	1:3:677:GLN:O	2.34	0.52
1:4:582:ASN:OD1	1:4:591:ALA:N	2.35	0.52
1:5:429:SER:OG	1:5:431:ASP:OD1	2.18	0.52
1:7:703:ASN:OD1	1:7:704:TYR:N	2.43	0.52
1:8:268:ASN:HA	1:8:271:HIS:NE2	2.25	0.52
1:A:571:VAL:HG12	1:A:572:ALA:N	2.23	0.52
1:B:313:PHE:HD1	1:B:680:VAL:HG12	1.74	0.52
1:D:259:GLN:HA	1:D:275:TYR:HD1	1.74	0.52
1:D:326:ASN:O	1:D:329:THR:OG1	2.19	0.52
1:D:523:MET:HG3	1:D:524:ALA:CB	2.39	0.52
1:D:577:GLY:HA3	1:N:508:TYR:HA	1.91	0.52
1:E:564:GLU:OE1	1:E:729:ARG:HB2	2.09	0.52
1:E:579:VAL:HG22	1:Q:484:ARG:HB2	1.90	0.52
1:E:703:ASN:OD1	1:E:704:TYR:N	2.43	0.52
1:F:508:TYR:HA	1:Q:577:GLY:HA3	1.91	0.52
1:G:416:GLU:CG	1:G:417:ASP:H	2.17	0.52
1:G:601:LEU:HB3	1:G:604:MET:HE2	1.90	0.52
1:I:581:THR:N	1:I:591:ALA:O	2.37	0.52
1:K:268:ASN:HA	1:K:271:HIS:NE2	2.25	0.52
1:O:268:ASN:HA	1:O:271:HIS:NE2	2.25	0.52
1:O:703:ASN:OD1	1:O:704:TYR:N	2.43	0.52
1:Q:394:CYS:O	1:Q:395:LEU:HB2	2.08	0.52
1:R:508:TYR:HA	1:U:577:GLY:HA3	1.91	0.52
1:S:577:GLY:HA3	1:U:508:TYR:HA	1.91	0.52
1:T:259:GLN:HA	1:T:275:TYR:HD1	1.74	0.52
1:V:441:TYR:HA	1:V:464:GLN:NE2	2.24	0.52
1:W:295:ASP:OD1	1:W:298:ARG:NH1	2.42	0.52
1:Y:703:ASN:OD1	1:Y:704:TYR:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:693:ARG:NH1	1:o:391:SER:HA	2.25	0.52
1:d:259:GLN:HA	1:d:275:TYR:HD1	1.74	0.52
1:f:703:ASN:OD1	1:f:704:TYR:N	2.43	0.52
1:g:268:ASN:HA	1:g:271:HIS:NE2	2.25	0.52
1:i:268:ASN:HA	1:i:271:HIS:NE2	2.25	0.52
1:j:703:ASN:OD1	1:j:704:TYR:N	2.43	0.52
1:l:259:GLN:HA	1:l:275:TYR:HD1	1.74	0.52
1:m:268:ASN:HA	1:m:271:HIS:NE2	2.25	0.52
1:m:313:PHE:HD1	1:m:680:VAL:HG12	1.74	0.52
1:m:715:ASP:OD1	1:m:716:THR:N	2.38	0.52
1:o:703:ASN:OD1	1:o:704:TYR:N	2.43	0.52
1:q:268:ASN:HA	1:q:271:HIS:NE2	2.25	0.52
1:r:703:ASN:OD1	1:r:704:TYR:N	2.43	0.52
1:v:441:TYR:HA	1:v:464:GLN:NE2	2.24	0.52
1:w:508:TYR:HA	1:y:577:GLY:HA3	1.91	0.52
1:x:259:GLN:HA	1:x:275:TYR:HD1	1.74	0.52
1:z:259:GLN:HA	1:z:275:TYR:HD1	1.74	0.52
1:z:693:ARG:NH1	1:1:391:SER:HA	2.25	0.52
1:3:268:ASN:HA	1:3:271:HIS:NE2	2.25	0.52
1:3:564:GLU:OE1	1:3:729:ARG:HB2	2.08	0.52
1:4:452:SER:OG	1:4:456:THR:O	2.27	0.52
1:4:564:GLU:OE1	1:4:729:ARG:HB2	2.09	0.52
1:5:416:GLU:CG	1:5:417:ASP:H	2.17	0.52
1:5:449:ASN:O	1:5:450:THR:OG1	2.20	0.52
1:5:579:VAL:HG22	1:6:484:ARG:HB2	1.90	0.52
1:5:703:ASN:OD1	1:5:704:TYR:N	2.43	0.52
1:6:438:ILE:HG22	1:6:439:ASP:N	2.24	0.52
1:7:438:ILE:HG22	1:7:439:ASP:N	2.24	0.52
1:7:523:MET:HG3	1:7:524:ALA:CB	2.39	0.52
1:8:247:TRP:NE1	1:8:677:GLN:O	2.34	0.52
1:A:259:GLN:HB3	1:B:715:ASP:O	2.10	0.52
1:C:268:ASN:HA	1:C:271:HIS:NE2	2.25	0.52
1:C:441:TYR:HA	1:C:464:GLN:NE2	2.24	0.52
1:D:268:ASN:HA	1:D:271:HIS:NE2	2.25	0.52
1:E:438:ILE:HG22	1:E:439:ASP:N	2.24	0.52
1:E:484:ARG:HB2	1:F:579:VAL:HG22	1.90	0.52
1:E:508:TYR:HA	1:F:577:GLY:HA3	1.91	0.52
1:F:438:ILE:HG22	1:F:439:ASP:N	2.24	0.52
1:F:715:ASP:OD1	1:F:716:THR:N	2.38	0.52
1:J:577:GLY:HA3	1:L:508:TYR:HA	1.91	0.52
1:K:391:SER:HA	1:8:693:ARG:NH1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:268:ASN:HA	1:L:271:HIS:NE2	2.25	0.52
1:L:413:TYR:OH	1:L:641:HIS:O	2.23	0.52
1:M:257:TYR:OH	1:M:396:GLU:OE1	2.28	0.52
1:O:523:MET:HG3	1:O:524:ALA:CB	2.39	0.52
1:P:703:ASN:OD1	1:P:704:TYR:N	2.43	0.52
1:Q:582:ASN:OD1	1:Q:591:ALA:N	2.35	0.52
1:R:438:ILE:HG22	1:R:439:ASP:N	2.24	0.52
1:S:545:GLN:OE1	1:S:545:GLN:N	2.34	0.52
1:V:584:GLN:OE1	1:V:584:GLN:N	2.43	0.52
1:W:259:GLN:HA	1:W:275:TYR:HD1	1.74	0.52
1:W:584:GLN:OE1	1:W:584:GLN:N	2.43	0.52
1:X:429:SER:OG	1:X:431:ASP:OD1	2.18	0.52
1:Y:582:ASN:OD1	1:Y:591:ALA:N	2.35	0.52
1:Y:658:SER:O	1:Y:659:THR:OG1	2.27	0.52
1:c:564:GLU:OE1	1:c:729:ARG:HB2	2.09	0.52
1:d:579:VAL:HG22	1:l:484:ARG:HB2	1.91	0.52
1:d:703:ASN:OD1	1:d:704:TYR:N	2.43	0.52
1:j:441:TYR:HA	1:j:464:GLN:NE2	2.24	0.52
1:o:523:MET:HG3	1:o:524:ALA:CB	2.39	0.52
1:q:259:GLN:HA	1:q:275:TYR:HD1	1.74	0.52
1:q:295:ASP:OD1	1:q:298:ARG:NH1	2.42	0.52
1:r:438:ILE:HG22	1:r:439:ASP:N	2.24	0.52
1:t:693:ARG:NH1	1:u:391:SER:HA	2.25	0.52
1:u:523:MET:HG3	1:u:524:ALA:CB	2.39	0.52
1:y:441:TYR:HA	1:y:464:GLN:NE2	2.24	0.52
1:y:584:GLN:OE1	1:y:584:GLN:N	2.43	0.52
1:2:582:ASN:OD1	1:2:591:ALA:N	2.35	0.52
1:2:584:GLN:OE1	1:2:584:GLN:N	2.43	0.52
1:3:391:SER:HA	1:4:693:ARG:NH1	2.25	0.52
1:3:703:ASN:OD1	1:3:704:TYR:N	2.43	0.52
1:5:259:GLN:HA	1:5:275:TYR:HD1	1.74	0.52
1:6:268:ASN:HA	1:6:271:HIS:NE2	2.25	0.52
1:6:703:ASN:OD1	1:6:704:TYR:N	2.43	0.52
1:6:715:ASP:OD1	1:6:716:THR:N	2.38	0.52
1:8:584:GLN:OE1	1:8:584:GLN:N	2.43	0.52
1:8:703:ASN:OD1	1:8:704:TYR:N	2.43	0.52
1:A:257:TYR:OH	1:A:396:GLU:OE1	2.28	0.52
1:A:523:MET:HG3	1:A:524:ALA:CB	2.39	0.52
1:B:268:ASN:HA	1:B:271:HIS:NE2	2.25	0.52
1:B:391:SER:HA	1:L:693:ARG:NH1	2.25	0.52
1:C:700:TYR:HB2	1:C:730:TYR:CZ	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:391:SER:HA	1:P:693:ARG:NH1	2.24	0.52
1:E:523:MET:HG3	1:E:524:ALA:CB	2.39	0.52
1:F:268:ASN:HA	1:F:271:HIS:NE2	2.25	0.52
1:F:703:ASN:OD1	1:F:704:TYR:N	2.43	0.52
1:G:268:ASN:HA	1:G:271:HIS:NE2	2.25	0.52
1:H:452:SER:OG	1:H:456:THR:O	2.27	0.52
1:I:441:TYR:HA	1:I:464:GLN:NE2	2.24	0.52
1:I:443:TYR:HA	1:I:464:GLN:HA	1.92	0.52
1:J:257:TYR:OH	1:J:396:GLU:OE1	2.28	0.52
1:J:313:PHE:HD1	1:J:680:VAL:HG12	1.74	0.52
1:J:703:ASN:OD1	1:J:704:TYR:N	2.43	0.52
1:L:700:TYR:HB2	1:L:730:TYR:CZ	2.45	0.52
1:M:703:ASN:OD1	1:M:704:TYR:N	2.43	0.52
1:N:693:ARG:NH1	1:P:391:SER:HA	2.25	0.52
1:P:584:GLN:OE1	1:P:584:GLN:N	2.43	0.52
1:Q:259:GLN:HA	1:Q:275:TYR:HD1	1.74	0.52
1:R:693:ARG:NH1	1:S:391:SER:HA	2.25	0.52
1:T:259:GLN:HB3	1:i:715:ASP:O	2.10	0.52
1:T:703:ASN:OD1	1:T:704:TYR:N	2.43	0.52
1:T:715:ASP:OD1	1:T:716:THR:N	2.39	0.52
1:Y:268:ASN:HA	1:Y:271:HIS:NE2	2.25	0.52
1:c:703:ASN:OD1	1:c:704:TYR:N	2.43	0.52
1:d:452:SER:OG	1:d:456:THR:O	2.27	0.52
1:e:449:ASN:O	1:e:450:THR:OG1	2.20	0.52
1:f:441:TYR:HA	1:f:464:GLN:NE2	2.24	0.52
1:g:715:ASP:O	1:1:259:GLN:HB3	2.10	0.52
1:i:391:SER:HA	1:k:693:ARG:NH1	2.25	0.52
1:l:581:THR:N	1:l:591:ALA:O	2.37	0.52
1:n:257:TYR:OH	1:n:396:GLU:OE1	2.28	0.52
1:n:416:GLU:OE1	1:n:416:GLU:N	2.28	0.52
1:n:452:SER:OG	1:n:456:THR:O	2.27	0.52
1:o:413:TYR:OH	1:o:641:HIS:O	2.23	0.52
1:p:268:ASN:HA	1:p:271:HIS:NE2	2.25	0.52
1:p:703:ASN:OD1	1:p:704:TYR:N	2.43	0.52
1:r:268:ASN:HA	1:r:271:HIS:NE2	2.25	0.52
1:s:584:GLN:OE1	1:s:584:GLN:N	2.43	0.52
1:t:438:ILE:HG22	1:t:439:ASP:N	2.24	0.52
1:w:610:ASP:OD1	1:w:611:VAL:N	2.43	0.52
1:x:715:ASP:OD1	1:x:716:THR:N	2.39	0.52
1:1:438:ILE:HG22	1:1:439:ASP:N	2.24	0.52
1:1:693:ARG:NH1	1:2:391:SER:HA	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:703:ASN:OD1	1:1:704:TYR:N	2.43	0.52
1:1:715:ASP:OD1	1:1:716:THR:N	2.38	0.52
1:2:313:PHE:HD1	1:2:680:VAL:HG12	1.74	0.52
1:2:703:ASN:OD1	1:2:704:TYR:N	2.43	0.52
1:5:443:TYR:HA	1:5:464:GLN:HA	1.92	0.52
1:A:268:ASN:HA	1:A:271:HIS:NE2	2.25	0.52
1:B:291:PHE:O	1:B:292:SER:OG	2.09	0.52
1:B:703:ASN:OD1	1:B:704:TYR:N	2.43	0.52
1:D:257:TYR:OH	1:D:396:GLU:OE1	2.28	0.52
1:D:693:ARG:NH1	1:N:391:SER:HA	2.25	0.52
1:F:547:SER:HG	1:Q:443:TYR:HH	1.54	0.52
1:G:703:ASN:OD1	1:G:704:TYR:N	2.43	0.52
1:H:391:SER:HA	1:Y:693:ARG:NH1	2.25	0.52
1:H:584:GLN:OE1	1:H:584:GLN:N	2.43	0.52
1:H:715:ASP:OD1	1:H:716:THR:N	2.39	0.52
1:H:715:ASP:O	1:I:259:GLN:HB3	2.10	0.52
1:I:268:ASN:HA	1:I:271:HIS:NE2	2.25	0.52
1:I:700:TYR:HB2	1:I:730:TYR:CZ	2.45	0.52
1:I:703:ASN:OD1	1:I:704:TYR:N	2.43	0.52
1:K:257:TYR:OH	1:K:396:GLU:OE1	2.28	0.52
1:K:693:ARG:NH1	1:a:391:SER:HA	2.25	0.52
1:K:700:TYR:HB2	1:K:730:TYR:CZ	2.45	0.52
1:L:441:TYR:HA	1:L:464:GLN:NE2	2.24	0.52
1:M:416:GLU:CG	1:M:417:ASP:H	2.18	0.52
1:N:443:TYR:HA	1:N:464:GLN:HA	1.92	0.52
1:O:259:GLN:HA	1:O:275:TYR:HD1	1.74	0.52
1:Q:443:TYR:HA	1:Q:464:GLN:HA	1.92	0.52
1:R:257:TYR:OH	1:R:396:GLU:OE1	2.28	0.52
1:R:700:TYR:HB2	1:R:730:TYR:CZ	2.45	0.52
1:S:523:MET:HG3	1:S:524:ALA:CB	2.39	0.52
1:V:268:ASN:HA	1:V:271:HIS:NE2	2.25	0.52
1:V:577:GLY:HA3	1:e:508:TYR:HA	1.91	0.52
1:X:259:GLN:HA	1:X:275:TYR:HD1	1.74	0.52
1:X:715:ASP:OD1	1:X:716:THR:N	2.38	0.52
1:Z:577:GLY:HA3	1:4:508:TYR:HA	1.91	0.52
1:a:443:TYR:HA	1:a:464:GLN:HA	1.92	0.52
1:b:268:ASN:HA	1:b:271:HIS:NE2	2.25	0.52
1:b:703:ASN:OD1	1:b:704:TYR:N	2.43	0.52
1:e:610:ASP:OD1	1:e:611:VAL:N	2.43	0.52
1:f:268:ASN:HA	1:f:271:HIS:NE2	2.25	0.52
1:g:391:SER:HA	1:h:693:ARG:NH1	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:508:TYR:HA	1:h:577:GLY:HA3	1.91	0.52
1:i:693:ARG:NH1	1:j:391:SER:HA	2.24	0.52
1:j:658:SER:O	1:j:659:THR:OG1	2.27	0.52
1:l:610:ASP:OD1	1:l:611:VAL:N	2.43	0.52
1:o:257:TYR:OH	1:o:396:GLU:OE1	2.28	0.52
1:o:268:ASN:HA	1:o:271:HIS:NE2	2.25	0.52
1:r:441:TYR:HA	1:r:464:GLN:NE2	2.24	0.52
1:s:452:SER:OG	1:s:456:THR:O	2.27	0.52
1:t:257:TYR:OH	1:t:396:GLU:OE1	2.28	0.52
1:t:391:SER:HA	1:v:693:ARG:NH1	2.24	0.52
1:t:700:TYR:HB2	1:t:730:TYR:CZ	2.45	0.52
1:w:268:ASN:HA	1:w:271:HIS:NE2	2.25	0.52
1:x:545:GLN:OE1	1:x:545:GLN:N	2.34	0.52
1:x:693:ARG:NH1	1:y:391:SER:HA	2.25	0.52
1:y:268:ASN:HA	1:y:271:HIS:NE2	2.25	0.52
1:1:259:GLN:HA	1:1:275:TYR:HD1	1.74	0.52
1:2:452:SER:OG	1:2:456:THR:O	2.27	0.52
1:3:313:PHE:HD1	1:3:680:VAL:HG12	1.74	0.52
1:3:523:MET:HG3	1:3:524:ALA:CB	2.39	0.52
1:4:257:TYR:OH	1:4:396:GLU:OE1	2.28	0.52
1:4:313:PHE:HD1	1:4:680:VAL:HG12	1.74	0.52
1:4:703:ASN:OD1	1:4:704:TYR:N	2.43	0.52
1:5:268:ASN:HA	1:5:271:HIS:NE2	2.25	0.52
1:5:394:CYS:O	1:5:395:LEU:HB2	2.08	0.52
1:6:259:GLN:HA	1:6:275:TYR:HD1	1.74	0.52
1:7:584:GLN:OE1	1:7:584:GLN:N	2.43	0.52
1:8:257:TYR:OH	1:8:396:GLU:OE1	2.28	0.52
1:A:391:SER:HA	1:I:693:ARG:NH1	2.25	0.51
1:C:391:SER:HA	1:M:693:ARG:NH1	2.25	0.51
1:C:508:TYR:HA	1:M:577:GLY:HA3	1.91	0.51
1:C:693:ARG:NH1	1:b:391:SER:HA	2.25	0.51
1:D:700:TYR:HB2	1:D:730:TYR:CZ	2.45	0.51
1:D:703:ASN:OD1	1:D:704:TYR:N	2.43	0.51
1:D:715:ASP:OD1	1:D:716:THR:N	2.38	0.51
1:E:257:TYR:OH	1:E:396:GLU:OE1	2.28	0.51
1:E:700:TYR:HB2	1:E:730:TYR:CZ	2.45	0.51
1:F:443:TYR:HA	1:F:464:GLN:HA	1.92	0.51
1:G:584:GLN:OE1	1:G:584:GLN:N	2.43	0.51
1:G:715:ASP:O	1:W:259:GLN:HB3	2.11	0.51
1:I:257:TYR:OH	1:I:396:GLU:OE1	2.28	0.51
1:I:452:SER:OG	1:I:456:THR:O	2.27	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:584:GLN:OE1	1:J:584:GLN:N	2.43	0.51
1:J:693:ARG:NH1	1:L:391:SER:HA	2.25	0.51
1:K:715:ASP:OD1	1:K:716:THR:N	2.38	0.51
1:M:313:PHE:HD1	1:M:680:VAL:HG12	1.74	0.51
1:P:257:TYR:OH	1:P:396:GLU:OE1	2.28	0.51
1:Q:268:ASN:HA	1:Q:271:HIS:NE2	2.25	0.51
1:R:703:ASN:OD1	1:R:704:TYR:N	2.43	0.51
1:T:581:THR:N	1:T:591:ALA:O	2.37	0.51
1:T:584:GLN:OE1	1:T:584:GLN:N	2.43	0.51
1:V:259:GLN:HA	1:V:275:TYR:HD1	1.74	0.51
1:V:703:ASN:OD1	1:V:704:TYR:N	2.43	0.51
1:Y:438:ILE:HG22	1:Y:439:ASP:N	2.24	0.51
1:Z:361:CYS:SG	1:Z:362:LEU:N	2.72	0.51
1:c:268:ASN:HA	1:c:271:HIS:NE2	2.25	0.51
1:c:443:TYR:HA	1:c:464:GLN:HA	1.93	0.51
1:c:700:TYR:HB2	1:c:730:TYR:CZ	2.45	0.51
1:d:268:ASN:HA	1:d:271:HIS:NE2	2.25	0.51
1:d:582:ASN:OD1	1:d:591:ALA:N	2.35	0.51
1:d:700:TYR:HB2	1:d:730:TYR:CZ	2.45	0.51
1:e:268:ASN:HA	1:e:271:HIS:NE2	2.25	0.51
1:e:523:MET:HG3	1:e:524:ALA:CB	2.39	0.51
1:f:391:SER:HA	1:g:693:ARG:NH1	2.25	0.51
1:g:584:GLN:OE1	1:g:584:GLN:N	2.43	0.51
1:g:703:ASN:OD1	1:g:704:TYR:N	2.43	0.51
1:i:508:TYR:HA	1:k:577:GLY:HA3	1.91	0.51
1:i:703:ASN:OD1	1:i:704:TYR:N	2.43	0.51
1:j:268:ASN:HA	1:j:271:HIS:NE2	2.25	0.51
1:j:700:TYR:HB2	1:j:730:TYR:CZ	2.45	0.51
1:l:416:GLU:OE1	1:l:416:GLU:N	2.28	0.51
1:m:361:CYS:SG	1:m:362:LEU:N	2.72	0.51
1:n:703:ASN:OD1	1:n:704:TYR:N	2.43	0.51
1:p:584:GLN:OE1	1:p:584:GLN:N	2.43	0.51
1:q:581:THR:N	1:q:591:ALA:O	2.37	0.51
1:q:601:LEU:HB3	1:q:604:MET:HE2	1.90	0.51
1:u:693:ARG:NH1	1:v:391:SER:HA	2.24	0.51
1:x:413:TYR:OH	1:x:641:HIS:O	2.23	0.51
1:y:443:TYR:HA	1:y:464:GLN:HA	1.92	0.51
1:y:703:ASN:OD1	1:y:704:TYR:N	2.43	0.51
1:z:257:TYR:OH	1:z:396:GLU:OE1	2.28	0.51
1:z:610:ASP:OD1	1:z:611:VAL:N	2.43	0.51
1:1:584:GLN:OE1	1:1:584:GLN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:484:ARG:HB2	1:7:579:VAL:HG22	1.90	0.51
1:7:257:TYR:OH	1:7:396:GLU:OE1	2.28	0.51
1:7:700:TYR:HB2	1:7:730:TYR:CZ	2.45	0.51
1:A:693:ARG:NH1	1:G:391:SER:HA	2.25	0.51
1:E:443:TYR:HA	1:E:464:GLN:HA	1.92	0.51
1:E:584:GLN:OE1	1:E:584:GLN:N	2.43	0.51
1:K:703:ASN:OD1	1:K:704:TYR:N	2.43	0.51
1:M:571:VAL:HG12	1:M:572:ALA:N	2.23	0.51
1:M:584:GLN:OE1	1:M:584:GLN:N	2.43	0.51
1:P:443:TYR:HA	1:P:464:GLN:HA	1.92	0.51
1:P:700:TYR:HB2	1:P:730:TYR:CZ	2.45	0.51
1:R:268:ASN:HA	1:R:271:HIS:NE2	2.25	0.51
1:S:693:ARG:NH1	1:U:391:SER:HA	2.24	0.51
1:T:438:ILE:HG22	1:T:439:ASP:N	2.24	0.51
1:V:391:SER:HA	1:X:693:ARG:NH1	2.25	0.51
1:W:703:ASN:OD1	1:W:704:TYR:N	2.43	0.51
1:X:601:LEU:HB3	1:X:604:MET:HE2	1.90	0.51
1:Y:441:TYR:HA	1:Y:464:GLN:NE2	2.24	0.51
1:Z:703:ASN:OD1	1:Z:704:TYR:N	2.43	0.51
1:b:523:MET:HG3	1:b:524:ALA:CB	2.39	0.51
1:c:257:TYR:OH	1:c:396:GLU:OE1	2.28	0.51
1:c:441:TYR:HA	1:c:464:GLN:NE2	2.24	0.51
1:c:452:SER:OG	1:c:456:THR:O	2.27	0.51
1:d:313:PHE:HD1	1:d:680:VAL:HG12	1.74	0.51
1:d:610:ASP:OD1	1:d:611:VAL:N	2.43	0.51
1:f:561:ASP:OD1	1:f:562:GLU:N	2.44	0.51
1:f:700:TYR:HB2	1:f:730:TYR:CZ	2.45	0.51
1:i:584:GLN:OE1	1:i:584:GLN:N	2.43	0.51
1:j:443:TYR:HA	1:j:464:GLN:HA	1.92	0.51
1:j:561:ASP:OD1	1:j:562:GLU:N	2.44	0.51
1:k:523:MET:HG3	1:k:524:ALA:CB	2.39	0.51
1:l:257:TYR:OH	1:l:396:GLU:OE1	2.28	0.51
1:l:703:ASN:OD1	1:l:704:TYR:N	2.43	0.51
1:n:561:ASP:OD1	1:n:562:GLU:N	2.44	0.51
1:q:247:TRP:NE1	1:q:677:GLN:O	2.34	0.51
1:t:703:ASN:OD1	1:t:704:TYR:N	2.43	0.51
1:v:584:GLN:OE1	1:v:584:GLN:N	2.43	0.51
1:w:523:MET:HG3	1:w:524:ALA:CB	2.39	0.51
1:x:257:TYR:OH	1:x:396:GLU:OE1	2.28	0.51
1:z:313:PHE:HD1	1:z:680:VAL:HG12	1.74	0.51
1:z:577:GLY:HA3	1:1:508:TYR:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:581:THR:N	1:z:591:ALA:O	2.37	0.51
1:z:703:ASN:OD1	1:z:704:TYR:N	2.43	0.51
1:2:443:TYR:HA	1:2:464:GLN:HA	1.92	0.51
1:2:610:ASP:OD1	1:2:611:VAL:N	2.43	0.51
1:2:700:TYR:HB2	1:2:730:TYR:CZ	2.45	0.51
1:2:715:ASP:O	1:3:259:GLN:HB3	2.10	0.51
1:3:259:GLN:HA	1:3:275:TYR:HD1	1.74	0.51
1:4:257:TYR:OH	1:4:394:CYS:O	2.21	0.51
1:5:582:ASN:OD1	1:5:591:ALA:N	2.35	0.51
1:6:443:TYR:HA	1:6:464:GLN:HA	1.93	0.51
1:7:443:TYR:HA	1:7:464:GLN:HA	1.92	0.51
1:8:700:TYR:HB2	1:8:730:TYR:CZ	2.45	0.51
1:A:452:SER:OG	1:A:456:THR:O	2.27	0.51
1:A:484:ARG:HB2	1:I:579:VAL:HG22	1.92	0.51
1:A:700:TYR:HB2	1:A:730:TYR:CZ	2.45	0.51
1:A:715:ASP:O	1:E:259:GLN:HB3	2.11	0.51
1:C:703:ASN:OD1	1:C:704:TYR:N	2.43	0.51
1:F:484:ARG:HB2	1:Q:579:VAL:HG22	1.90	0.51
1:I:610:ASP:OD1	1:I:611:VAL:N	2.43	0.51
1:J:416:GLU:CG	1:J:417:ASP:H	2.17	0.51
1:J:581:THR:N	1:J:591:ALA:O	2.37	0.51
1:J:700:TYR:HB2	1:J:730:TYR:CZ	2.45	0.51
1:M:581:THR:N	1:M:591:ALA:O	2.37	0.51
1:M:700:TYR:HB2	1:M:730:TYR:CZ	2.45	0.51
1:N:452:SER:OG	1:N:456:THR:O	2.27	0.51
1:O:715:ASP:O	1:P:259:GLN:HB3	2.11	0.51
1:T:547:SER:HG	1:l:443:TYR:HH	1.55	0.51
1:T:577:GLY:HA3	1:d:508:TYR:HA	1.92	0.51
1:U:584:GLN:OE1	1:U:584:GLN:N	2.43	0.51
1:V:443:TYR:HA	1:V:464:GLN:HA	1.93	0.51
1:W:257:TYR:OH	1:W:396:GLU:OE1	2.28	0.51
1:W:581:THR:N	1:W:591:ALA:O	2.37	0.51
1:W:601:LEU:HB3	1:W:604:MET:HE2	1.90	0.51
1:W:610:ASP:OD1	1:W:611:VAL:N	2.43	0.51
1:X:257:TYR:OH	1:X:396:GLU:OE1	2.28	0.51
1:X:545:GLN:OE1	1:X:545:GLN:N	2.34	0.51
1:b:443:TYR:HA	1:b:464:GLN:HA	1.92	0.51
1:c:584:GLN:OE1	1:c:584:GLN:N	2.43	0.51
1:d:443:TYR:HA	1:d:464:GLN:HA	1.92	0.51
1:f:693:ARG:NH1	1:h:391:SER:HA	2.24	0.51
1:h:438:ILE:HG22	1:h:439:ASP:N	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:257:TYR:OH	1:j:396:GLU:OE1	2.28	0.51
1:j:259:GLN:HA	1:j:275:TYR:HD1	1.74	0.51
1:l:313:PHE:HD1	1:l:680:VAL:HG12	1.74	0.51
1:o:698:ILE:O	1:6:701:THR:OG1	2.18	0.51
1:p:443:TYR:HA	1:p:464:GLN:HA	1.92	0.51
1:p:701:THR:OG1	1:s:698:ILE:O	2.24	0.51
1:q:257:TYR:OH	1:q:396:GLU:OE1	2.28	0.51
1:q:610:ASP:OD1	1:q:611:VAL:N	2.43	0.51
1:q:703:ASN:OD1	1:q:704:TYR:N	2.43	0.51
1:q:715:ASP:O	1:y:259:GLN:HB3	2.10	0.51
1:t:268:ASN:HA	1:t:271:HIS:NE2	2.25	0.51
1:w:577:GLY:HA3	1:x:508:TYR:HA	1.91	0.51
1:4:416:GLU:OE1	1:4:416:GLU:N	2.28	0.51
1:4:561:ASP:OD1	1:4:562:GLU:N	2.44	0.51
1:4:571:VAL:HG12	1:4:572:ALA:N	2.23	0.51
1:6:577:GLY:HA3	1:7:508:TYR:HA	1.91	0.51
1:8:443:TYR:HA	1:8:464:GLN:HA	1.92	0.51
1:A:553:ASP:CG	1:A:554:ILE:H	2.19	0.51
1:B:443:TYR:HA	1:B:464:GLN:HA	1.92	0.51
1:B:523:MET:HG3	1:B:524:ALA:CB	2.39	0.51
1:C:443:TYR:HA	1:C:464:GLN:HA	1.92	0.51
1:F:700:TYR:HB2	1:F:730:TYR:CZ	2.45	0.51
1:G:443:TYR:HA	1:G:464:GLN:HA	1.92	0.51
1:I:584:GLN:OE1	1:I:584:GLN:N	2.43	0.51
1:J:571:VAL:HG12	1:J:572:ALA:N	2.23	0.51
1:L:259:GLN:HA	1:L:275:TYR:HD1	1.74	0.51
1:L:703:ASN:OD1	1:L:704:TYR:N	2.43	0.51
1:M:658:SER:O	1:M:659:THR:OG1	2.27	0.51
1:N:257:TYR:OH	1:N:396:GLU:OE1	2.28	0.51
1:N:438:ILE:HG22	1:N:439:ASP:N	2.24	0.51
1:O:313:PHE:HD1	1:O:680:VAL:HG12	1.74	0.51
1:P:561:ASP:OD1	1:P:562:GLU:N	2.44	0.51
1:Q:257:TYR:OH	1:Q:396:GLU:OE1	2.28	0.51
1:R:553:ASP:CG	1:R:554:ILE:H	2.19	0.51
1:S:443:TYR:HA	1:S:464:GLN:HA	1.92	0.51
1:T:715:ASP:O	1:U:259:GLN:HB3	2.10	0.51
1:W:700:TYR:HB2	1:W:730:TYR:CZ	2.45	0.51
1:X:441:TYR:HA	1:X:464:GLN:NE2	2.24	0.51
1:X:443:TYR:HA	1:X:464:GLN:HA	1.92	0.51
1:Z:700:TYR:HB2	1:Z:730:TYR:CZ	2.45	0.51
1:c:259:GLN:HA	1:c:275:TYR:HD1	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:610:ASP:OD1	1:c:611:VAL:N	2.43	0.51
1:e:561:ASP:OD1	1:e:562:GLU:N	2.44	0.51
1:f:257:TYR:OH	1:f:396:GLU:OE1	2.28	0.51
1:f:259:GLN:HA	1:f:275:TYR:HD1	1.74	0.51
1:f:443:TYR:HA	1:f:464:GLN:HA	1.92	0.51
1:f:584:GLN:OE1	1:f:584:GLN:N	2.43	0.51
1:h:523:MET:HG3	1:h:524:ALA:CB	2.39	0.51
1:j:693:ARG:NH1	1:k:391:SER:HA	2.24	0.51
1:k:438:ILE:HG22	1:k:439:ASP:N	2.24	0.51
1:k:561:ASP:OD1	1:k:562:GLU:N	2.44	0.51
1:l:700:TYR:HB2	1:l:730:TYR:CZ	2.45	0.51
1:m:610:ASP:OD1	1:m:611:VAL:N	2.43	0.51
1:m:703:ASN:OD1	1:m:704:TYR:N	2.43	0.51
1:n:313:PHE:HD1	1:n:680:VAL:HG12	1.74	0.51
1:n:571:VAL:HG12	1:n:572:ALA:N	2.23	0.51
1:o:553:ASP:CG	1:o:554:ILE:H	2.19	0.51
1:o:700:TYR:HB2	1:o:730:TYR:CZ	2.45	0.51
1:o:715:ASP:O	1:7:259:GLN:HB3	2.11	0.51
1:s:610:ASP:OD1	1:s:611:VAL:N	2.43	0.51
1:s:700:TYR:HB2	1:s:730:TYR:CZ	2.45	0.51
1:v:259:GLN:HA	1:v:275:TYR:HD1	1.74	0.51
1:y:259:GLN:HA	1:y:275:TYR:HD1	1.74	0.51
1:1:581:THR:N	1:1:591:ALA:O	2.37	0.51
1:2:268:ASN:HA	1:2:271:HIS:NE2	2.25	0.51
1:2:438:ILE:HG22	1:2:439:ASP:N	2.24	0.51
1:4:700:TYR:HB2	1:4:730:TYR:CZ	2.45	0.51
1:5:257:TYR:OH	1:5:396:GLU:OE1	2.28	0.51
1:6:700:TYR:HB2	1:6:730:TYR:CZ	2.45	0.51
1:8:715:ASP:OD1	1:8:716:THR:N	2.38	0.51
1:A:561:ASP:OD1	1:A:562:GLU:N	2.44	0.51
1:A:610:ASP:OD1	1:A:611:VAL:N	2.43	0.51
1:B:304:TRP:CE2	1:B:689:GLU:HG2	2.46	0.51
1:C:259:GLN:HA	1:C:275:TYR:HD1	1.74	0.51
1:C:584:GLN:OE1	1:C:584:GLN:N	2.43	0.51
1:E:391:SER:HA	1:F:693:ARG:NH1	2.24	0.51
1:F:259:GLN:HA	1:F:275:TYR:HD1	1.74	0.51
1:F:561:ASP:OD1	1:F:562:GLU:N	2.44	0.51
1:G:700:TYR:HB2	1:G:730:TYR:CZ	2.45	0.51
1:H:257:TYR:OH	1:H:396:GLU:OE1	2.28	0.51
1:H:449:ASN:O	1:H:450:THR:OG1	2.20	0.51
1:H:700:TYR:HB2	1:H:730:TYR:CZ	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:304:TRP:CE2	1:I:689:GLU:HG2	2.46	0.51
1:J:658:SER:O	1:J:659:THR:OG1	2.27	0.51
1:L:443:TYR:HA	1:L:464:GLN:HA	1.93	0.51
1:L:715:ASP:O	1:b:259:GLN:HB3	2.11	0.51
1:O:259:GLN:HB3	1:d:715:ASP:O	2.11	0.51
1:P:304:TRP:CE2	1:P:689:GLU:HG2	2.46	0.51
1:R:391:SER:HA	1:U:693:ARG:NH1	2.25	0.51
1:T:693:ARG:NH1	1:d:391:SER:HA	2.25	0.51
1:U:304:TRP:CE2	1:U:689:GLU:HG2	2.46	0.51
1:U:571:VAL:HG12	1:U:572:ALA:N	2.23	0.51
1:X:268:ASN:HA	1:X:271:HIS:NE2	2.25	0.51
1:X:508:TYR:HA	1:e:577:GLY:HA3	1.91	0.51
1:X:610:ASP:OD1	1:X:611:VAL:N	2.43	0.51
1:a:257:TYR:OH	1:a:396:GLU:OE1	2.28	0.51
1:a:452:SER:OG	1:a:456:THR:O	2.27	0.51
1:b:584:GLN:OE1	1:b:584:GLN:N	2.43	0.51
1:d:438:ILE:HG22	1:d:439:ASP:N	2.24	0.51
1:e:703:ASN:OD1	1:e:704:TYR:N	2.43	0.51
1:f:553:ASP:CG	1:f:554:ILE:H	2.19	0.51
1:g:259:GLN:HB3	1:k:715:ASP:O	2.11	0.51
1:g:700:TYR:HB2	1:g:730:TYR:CZ	2.45	0.51
1:h:561:ASP:OD1	1:h:562:GLU:N	2.44	0.51
1:i:553:ASP:CG	1:i:554:ILE:H	2.19	0.51
1:j:553:ASP:CG	1:j:554:ILE:H	2.19	0.51
1:k:268:ASN:HA	1:k:271:HIS:NE2	2.25	0.51
1:l:259:GLN:HB3	1:n:715:ASP:O	2.10	0.51
1:m:700:TYR:HB2	1:m:730:TYR:CZ	2.45	0.51
1:n:443:TYR:HA	1:n:464:GLN:HA	1.92	0.51
1:n:581:THR:N	1:n:591:ALA:O	2.37	0.51
1:n:584:GLN:OE1	1:n:584:GLN:N	2.43	0.51
1:n:700:TYR:HB2	1:n:730:TYR:CZ	2.45	0.51
1:o:438:ILE:HG22	1:o:439:ASP:N	2.24	0.51
1:o:452:SER:OG	1:o:456:THR:O	2.27	0.51
1:o:561:ASP:OD1	1:o:562:GLU:N	2.44	0.51
1:o:584:GLN:OE1	1:o:584:GLN:N	2.43	0.51
1:p:304:TRP:CE2	1:p:689:GLU:HG2	2.46	0.51
1:t:443:TYR:HA	1:t:464:GLN:HA	1.92	0.51
1:t:553:ASP:CG	1:t:554:ILE:H	2.19	0.51
1:u:443:TYR:HA	1:u:464:GLN:HA	1.92	0.51
1:v:443:TYR:HA	1:v:464:GLN:HA	1.92	0.51
1:w:561:ASP:OD1	1:w:562:GLU:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:703:ASN:OD1	1:w:704:TYR:N	2.43	0.51
1:x:443:TYR:HA	1:x:464:GLN:HA	1.92	0.51
1:x:601:LEU:HB3	1:x:604:MET:HE2	1.90	0.51
1:z:547:SER:OG	1:2:443:TYR:OH	2.29	0.51
1:z:700:TYR:HB2	1:z:730:TYR:CZ	2.45	0.51
1:1:700:TYR:HB2	1:1:730:TYR:CZ	2.45	0.51
1:3:438:ILE:HG22	1:3:439:ASP:N	2.24	0.51
1:4:584:GLN:OE1	1:4:584:GLN:N	2.43	0.51
1:6:693:ARG:NH1	1:7:391:SER:HA	2.24	0.51
1:A:438:ILE:HG22	1:A:439:ASP:N	2.24	0.51
1:A:577:GLY:HA3	1:G:508:TYR:HA	1.91	0.51
1:B:259:GLN:HB3	1:C:715:ASP:O	2.11	0.51
1:C:304:TRP:CE2	1:C:689:GLU:HG2	2.46	0.51
1:D:443:TYR:HA	1:D:464:GLN:HA	1.92	0.51
1:E:429:SER:OG	1:E:431:ASP:OD1	2.18	0.51
1:F:304:TRP:CE2	1:F:689:GLU:HG2	2.46	0.51
1:G:304:TRP:CE2	1:G:689:GLU:HG2	2.46	0.51
1:G:571:VAL:HG12	1:G:572:ALA:N	2.23	0.51
1:H:561:ASP:OD1	1:H:562:GLU:N	2.44	0.51
1:H:610:ASP:OD1	1:H:611:VAL:N	2.43	0.51
1:I:259:GLN:HA	1:I:275:TYR:HD1	1.74	0.51
1:I:561:ASP:OD1	1:I:562:GLU:N	2.44	0.51
1:K:304:TRP:CE2	1:K:689:GLU:HG2	2.46	0.51
1:K:443:TYR:HA	1:K:464:GLN:HA	1.92	0.51
1:N:268:ASN:HA	1:N:271:HIS:NE2	2.25	0.51
1:N:658:SER:O	1:N:659:THR:OG1	2.27	0.51
1:O:715:ASP:OD1	1:O:716:THR:N	2.38	0.51
1:R:304:TRP:CE2	1:R:689:GLU:HG2	2.46	0.51
1:R:443:TYR:HA	1:R:464:GLN:HA	1.92	0.51
1:S:700:TYR:HB2	1:S:730:TYR:CZ	2.45	0.51
1:T:700:TYR:HB2	1:T:730:TYR:CZ	2.45	0.51
1:U:443:TYR:HA	1:U:464:GLN:HA	1.92	0.51
1:U:700:TYR:HB2	1:U:730:TYR:CZ	2.45	0.51
1:Y:700:TYR:HB2	1:Y:730:TYR:CZ	2.45	0.51
1:c:304:TRP:CE2	1:c:689:GLU:HG2	2.46	0.51
1:c:553:ASP:CG	1:c:554:ILE:H	2.19	0.51
1:c:557:VAL:HG11	1:p:462:PHE:CD2	2.46	0.51
1:c:561:ASP:OD1	1:c:562:GLU:N	2.44	0.51
1:d:304:TRP:CE2	1:d:689:GLU:HG2	2.46	0.51
1:e:257:TYR:OH	1:e:396:GLU:OE1	2.28	0.51
1:g:443:TYR:HA	1:g:464:GLN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:553:ASP:CG	1:g:554:ILE:H	2.19	0.51
1:h:268:ASN:HA	1:h:271:HIS:NE2	2.25	0.51
1:i:443:TYR:HA	1:i:464:GLN:HA	1.92	0.51
1:i:700:TYR:HB2	1:i:730:TYR:CZ	2.45	0.51
1:j:584:GLN:OE1	1:j:584:GLN:N	2.43	0.51
1:k:247:TRP:NE1	1:k:677:GLN:O	2.34	0.51
1:l:443:TYR:HA	1:l:464:GLN:HA	1.92	0.51
1:l:561:ASP:OD1	1:l:562:GLU:N	2.44	0.51
1:o:610:ASP:OD1	1:o:611:VAL:N	2.43	0.51
1:p:329:THR:HG22	1:q:326:ASN:HD21	1.76	0.51
1:p:571:VAL:HG12	1:p:572:ALA:N	2.23	0.51
1:p:700:TYR:HB2	1:p:730:TYR:CZ	2.45	0.51
1:q:553:ASP:CG	1:q:554:ILE:H	2.19	0.51
1:q:700:TYR:HB2	1:q:730:TYR:CZ	2.45	0.51
1:r:700:TYR:HB2	1:r:730:TYR:CZ	2.45	0.51
1:s:257:TYR:OH	1:s:396:GLU:OE1	2.28	0.51
1:t:304:TRP:CE2	1:t:689:GLU:HG2	2.46	0.51
1:u:561:ASP:OD1	1:u:562:GLU:N	2.44	0.51
1:v:304:TRP:CE2	1:v:689:GLU:HG2	2.46	0.51
1:x:441:TYR:HA	1:x:464:GLN:NE2	2.24	0.51
1:x:610:ASP:OD1	1:x:611:VAL:N	2.43	0.51
1:z:443:TYR:HA	1:z:464:GLN:HA	1.92	0.51
1:2:304:TRP:CE2	1:2:689:GLU:HG2	2.46	0.51
1:5:693:ARG:NH1	1:6:391:SER:HA	2.25	0.51
1:6:304:TRP:CE2	1:6:689:GLU:HG2	2.46	0.51
1:6:561:ASP:OD1	1:6:562:GLU:N	2.44	0.51
1:7:610:ASP:OD1	1:7:611:VAL:N	2.43	0.51
1:8:304:TRP:CE2	1:8:689:GLU:HG2	2.46	0.51
1:8:561:ASP:OD1	1:8:562:GLU:N	2.44	0.51
1:A:584:GLN:OE1	1:A:584:GLN:N	2.43	0.51
1:B:508:TYR:HA	1:L:577:GLY:HA3	1.91	0.51
1:B:581:THR:N	1:B:591:ALA:O	2.37	0.51
1:B:584:GLN:OE1	1:B:584:GLN:N	2.43	0.51
1:D:304:TRP:CE2	1:D:689:GLU:HG2	2.46	0.51
1:D:545:GLN:OE1	1:D:545:GLN:N	2.34	0.51
1:F:391:SER:HA	1:Q:693:ARG:NH1	2.25	0.51
1:F:715:ASP:O	1:G:259:GLN:HB3	2.10	0.51
1:G:577:GLY:HA3	1:I:508:TYR:HA	1.91	0.51
1:I:553:ASP:CG	1:I:554:ILE:H	2.19	0.51
1:L:304:TRP:CE2	1:L:689:GLU:HG2	2.46	0.51
1:L:584:GLN:OE1	1:L:584:GLN:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:438:ILE:HG22	1:O:439:ASP:N	2.24	0.51
1:P:610:ASP:OD1	1:P:611:VAL:N	2.43	0.51
1:P:715:ASP:OD1	1:P:716:THR:N	2.39	0.51
1:Q:700:TYR:HB2	1:Q:730:TYR:CZ	2.45	0.51
1:S:703:ASN:OD1	1:S:704:TYR:N	2.43	0.51
1:U:259:GLN:HA	1:U:275:TYR:HD1	1.74	0.51
1:V:259:GLN:HB3	1:W:715:ASP:O	2.11	0.51
1:W:247:TRP:NE1	1:W:677:GLN:O	2.34	0.51
1:W:553:ASP:CG	1:W:554:ILE:H	2.19	0.51
1:W:561:ASP:OD1	1:W:562:GLU:N	2.44	0.51
1:X:304:TRP:CE2	1:X:689:GLU:HG2	2.46	0.51
1:X:700:TYR:HB2	1:X:730:TYR:CZ	2.45	0.51
1:Z:610:ASP:OD1	1:Z:611:VAL:N	2.43	0.51
1:a:268:ASN:HA	1:a:271:HIS:NE2	2.25	0.51
1:a:438:ILE:HG22	1:a:439:ASP:N	2.25	0.51
1:b:304:TRP:CE2	1:b:689:GLU:HG2	2.46	0.51
1:f:577:GLY:HA3	1:h:508:TYR:HA	1.91	0.51
1:g:582:ASN:OD1	1:g:591:ALA:N	2.35	0.51
1:h:304:TRP:CE2	1:h:689:GLU:HG2	2.46	0.51
1:h:416:GLU:CG	1:h:417:ASP:H	2.17	0.51
1:h:443:TYR:HA	1:h:464:GLN:HA	1.92	0.51
1:h:715:ASP:O	1:i:259:GLN:HB3	2.11	0.51
1:k:304:TRP:CE2	1:k:689:GLU:HG2	2.46	0.51
1:k:443:TYR:HA	1:k:464:GLN:HA	1.92	0.51
1:n:545:GLN:OE1	1:n:545:GLN:N	2.34	0.51
1:p:257:TYR:OH	1:p:396:GLU:OE1	2.28	0.51
1:r:443:TYR:HA	1:r:464:GLN:HA	1.92	0.51
1:r:693:ARG:NH1	1:s:391:SER:HA	2.25	0.51
1:s:561:ASP:OD1	1:s:562:GLU:N	2.44	0.51
1:u:553:ASP:CG	1:u:554:ILE:H	2.19	0.51
1:v:571:VAL:HG12	1:v:572:ALA:N	2.23	0.51
1:w:257:TYR:OH	1:w:396:GLU:OE1	2.28	0.51
1:x:268:ASN:HA	1:x:271:HIS:NE2	2.25	0.51
1:x:304:TRP:CE2	1:x:689:GLU:HG2	2.46	0.51
1:z:561:ASP:OD1	1:z:562:GLU:N	2.44	0.51
1:2:257:TYR:OH	1:2:396:GLU:OE1	2.28	0.51
1:3:715:ASP:O	1:8:259:GLN:HB3	2.11	0.51
1:8:553:ASP:CG	1:8:554:ILE:H	2.19	0.51
1:8:610:ASP:OD1	1:8:611:VAL:N	2.43	0.51
1:C:561:ASP:OD1	1:C:562:GLU:N	2.44	0.51
1:C:577:GLY:HA3	1:b:508:TYR:HA	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:553:ASP:CG	1:D:554:ILE:H	2.19	0.51
1:E:610:ASP:OD1	1:E:611:VAL:N	2.43	0.51
1:G:257:TYR:OH	1:G:396:GLU:OE1	2.28	0.51
1:K:553:ASP:CG	1:K:554:ILE:H	2.19	0.51
1:L:561:ASP:OD1	1:L:562:GLU:N	2.44	0.51
1:R:452:SER:OG	1:R:456:THR:O	2.27	0.51
1:R:584:GLN:OE1	1:R:584:GLN:N	2.43	0.51
1:S:715:ASP:O	1:d:259:GLN:HB3	2.10	0.51
1:V:561:ASP:OD1	1:V:562:GLU:N	2.44	0.51
1:V:658:SER:O	1:V:659:THR:OG1	2.27	0.51
1:W:304:TRP:CE2	1:W:689:GLU:HG2	2.46	0.51
1:Z:584:GLN:OE1	1:Z:584:GLN:N	2.43	0.51
1:b:326:ASN:O	1:b:329:THR:OG1	2.19	0.51
1:d:257:TYR:OH	1:d:396:GLU:OE1	2.28	0.51
1:d:561:ASP:OD1	1:d:562:GLU:N	2.44	0.51
1:e:553:ASP:CG	1:e:554:ILE:H	2.19	0.51
1:h:553:ASP:CG	1:h:554:ILE:H	2.19	0.51
1:j:577:GLY:HA3	1:k:508:TYR:HA	1.91	0.51
1:m:584:GLN:OE1	1:m:584:GLN:N	2.43	0.51
1:q:304:TRP:CE2	1:q:689:GLU:HG2	2.46	0.51
1:q:561:ASP:OD1	1:q:562:GLU:N	2.44	0.51
1:q:658:SER:O	1:q:659:THR:OG1	2.27	0.51
1:u:259:GLN:HB3	1:5:715:ASP:O	2.11	0.51
1:u:700:TYR:HB2	1:u:730:TYR:CZ	2.45	0.51
1:v:259:GLN:HB3	1:1:715:ASP:O	2.11	0.51
1:v:700:TYR:HB2	1:v:730:TYR:CZ	2.45	0.51
1:x:700:TYR:HB2	1:x:730:TYR:CZ	2.45	0.51
1:y:561:ASP:OD1	1:y:562:GLU:N	2.44	0.51
1:1:582:ASN:OD1	1:1:591:ALA:N	2.35	0.51
1:4:443:TYR:HA	1:4:464:GLN:HA	1.93	0.51
1:5:700:TYR:HB2	1:5:730:TYR:CZ	2.45	0.51
1:B:700:TYR:HB2	1:B:730:TYR:CZ	2.45	0.51
1:E:449:ASN:O	1:E:450:THR:OG1	2.20	0.51
1:F:257:TYR:OH	1:F:396:GLU:OE1	2.28	0.51
1:H:577:GLY:HA3	1:W:508:TYR:HA	1.91	0.51
1:O:700:TYR:HB2	1:O:730:TYR:CZ	2.45	0.51
1:P:553:ASP:CG	1:P:554:ILE:H	2.19	0.51
1:Q:304:TRP:CE2	1:Q:689:GLU:HG2	2.46	0.51
1:Q:715:ASP:O	1:S:259:GLN:HB3	2.11	0.51
1:S:304:TRP:CE2	1:S:689:GLU:HG2	2.46	0.51
1:S:553:ASP:CG	1:S:554:ILE:H	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:304:TRP:CE2	1:T:689:GLU:HG2	2.46	0.51
1:U:715:ASP:O	1:e:259:GLN:HB3	2.11	0.51
1:W:658:SER:O	1:W:659:THR:OG1	2.27	0.51
1:Y:443:TYR:HA	1:Y:464:GLN:HA	1.92	0.51
1:Y:715:ASP:O	1:4:259:GLN:HB3	2.10	0.51
1:Z:257:TYR:OH	1:Z:396:GLU:OE1	2.28	0.51
1:Z:304:TRP:CE2	1:Z:689:GLU:HG2	2.46	0.51
1:e:700:TYR:HB2	1:e:730:TYR:CZ	2.45	0.51
1:h:257:TYR:OH	1:h:396:GLU:OE1	2.28	0.51
1:k:416:GLU:CG	1:k:417:ASP:H	2.17	0.51
1:k:553:ASP:CG	1:k:554:ILE:H	2.19	0.51
1:k:700:TYR:HB2	1:k:730:TYR:CZ	2.45	0.51
1:m:257:TYR:OH	1:m:396:GLU:OE1	2.28	0.51
1:o:577:GLY:HA3	1:p:508:TYR:HA	1.92	0.51
1:p:658:SER:O	1:p:659:THR:OG1	2.27	0.51
1:s:443:TYR:HA	1:s:464:GLN:HA	1.92	0.51
1:s:703:ASN:OD1	1:s:704:TYR:N	2.43	0.51
1:u:703:ASN:OD1	1:u:704:TYR:N	2.43	0.51
1:1:304:TRP:CE2	1:1:689:GLU:HG2	2.46	0.51
1:5:259:GLN:HB3	1:8:715:ASP:O	2.11	0.51
1:7:695:ASN:HB2	1:7:696:PRO:HD2	1.93	0.51
1:B:452:SER:OG	1:B:456:THR:O	2.27	0.51
1:C:391:SER:OG	1:C:392:PHE:N	2.44	0.51
1:E:695:ASN:HB2	1:E:696:PRO:HD2	1.93	0.51
1:F:545:GLN:OE1	1:F:545:GLN:N	2.34	0.51
1:G:658:SER:O	1:G:659:THR:OG1	2.27	0.51
1:G:695:ASN:HB2	1:G:696:PRO:HD2	1.93	0.51
1:J:553:ASP:CG	1:J:554:ILE:H	2.19	0.51
1:K:545:GLN:OE1	1:K:545:GLN:N	2.34	0.51
1:K:584:GLN:OE1	1:K:584:GLN:N	2.43	0.51
1:K:658:SER:O	1:K:659:THR:OG1	2.27	0.51
1:Q:695:ASN:HB2	1:Q:696:PRO:HD2	1.93	0.51
1:R:259:GLN:HB3	1:V:715:ASP:O	2.11	0.51
1:T:268:ASN:HA	1:T:271:HIS:NE2	2.25	0.51
1:T:695:ASN:HB2	1:T:696:PRO:HD2	1.93	0.51
1:U:257:TYR:OH	1:U:396:GLU:OE1	2.28	0.51
1:V:452:SER:OG	1:V:456:THR:O	2.27	0.51
1:Z:553:ASP:CG	1:Z:554:ILE:H	2.19	0.51
1:b:700:TYR:HB2	1:b:730:TYR:CZ	2.45	0.51
1:c:247:TRP:NE1	1:c:677:GLN:O	2.34	0.51
1:d:553:ASP:CG	1:d:554:ILE:H	2.19	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:658:SER:O	1:d:659:THR:OG1	2.27	0.51
1:e:259:GLN:HA	1:e:275:TYR:HD1	1.74	0.51
1:g:257:TYR:OH	1:g:396:GLU:OE1	2.28	0.51
1:h:247:TRP:NE1	1:h:677:GLN:O	2.34	0.51
1:h:700:TYR:HB2	1:h:730:TYR:CZ	2.45	0.51
1:i:257:TYR:OH	1:i:396:GLU:OE1	2.28	0.51
1:i:582:ASN:OD1	1:i:591:ALA:N	2.35	0.51
1:k:257:TYR:OH	1:k:396:GLU:OE1	2.28	0.51
1:m:304:TRP:CE2	1:m:689:GLU:HG2	2.46	0.51
1:m:347:GLU:OE1	1:m:347:GLU:N	2.41	0.51
1:o:443:TYR:HA	1:o:464:GLN:HA	1.92	0.51
1:p:695:ASN:HB2	1:p:696:PRO:HD2	1.93	0.51
1:r:581:THR:N	1:r:591:ALA:O	2.37	0.51
1:t:452:SER:OG	1:t:456:THR:O	2.27	0.51
1:t:584:GLN:OE1	1:t:584:GLN:N	2.43	0.51
1:v:257:TYR:OH	1:v:396:GLU:OE1	2.28	0.51
1:v:553:ASP:CG	1:v:554:ILE:H	2.19	0.51
1:v:561:ASP:OD1	1:v:562:GLU:N	2.44	0.51
1:w:553:ASP:CG	1:w:554:ILE:H	2.19	0.51
1:w:700:TYR:HB2	1:w:730:TYR:CZ	2.45	0.51
1:x:582:ASN:OD1	1:x:591:ALA:N	2.35	0.51
1:y:658:SER:O	1:y:659:THR:OG1	2.27	0.51
1:1:268:ASN:HA	1:1:271:HIS:NE2	2.25	0.51
1:1:695:ASN:HB2	1:1:696:PRO:HD2	1.93	0.51
1:2:561:ASP:OD1	1:2:562:GLU:N	2.44	0.51
1:2:609:ARG:O	1:2:729:ARG:NH2	2.44	0.51
1:3:304:TRP:CE2	1:3:689:GLU:HG2	2.46	0.51
1:3:700:TYR:HB2	1:3:730:TYR:CZ	2.45	0.51
1:3:715:ASP:OD1	1:3:716:THR:N	2.39	0.51
1:4:326:ASN:O	1:4:329:THR:OG1	2.19	0.51
1:4:581:THR:N	1:4:591:ALA:O	2.37	0.51
1:4:610:ASP:OD1	1:4:611:VAL:N	2.43	0.51
1:5:304:TRP:CE2	1:5:689:GLU:HG2	2.46	0.51
1:5:695:ASN:HB2	1:5:696:PRO:HD2	1.93	0.51
1:6:257:TYR:OH	1:6:396:GLU:OE1	2.28	0.51
1:6:452:SER:OG	1:6:456:THR:O	2.27	0.51
1:7:304:TRP:CE2	1:7:689:GLU:HG2	2.46	0.51
1:A:443:TYR:HA	1:A:464:GLN:HA	1.92	0.50
1:B:561:ASP:OD1	1:B:562:GLU:N	2.44	0.50
1:D:609:ARG:O	1:D:729:ARG:NH2	2.44	0.50
1:D:658:SER:O	1:D:659:THR:OG1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:304:TRP:CE2	1:E:689:GLU:HG2	2.46	0.50
1:E:391:SER:OG	1:E:392:PHE:N	2.44	0.50
1:H:416:GLU:OE1	1:H:416:GLU:N	2.28	0.50
1:H:443:TYR:HA	1:H:464:GLN:HA	1.92	0.50
1:H:703:ASN:OD1	1:H:704:TYR:N	2.43	0.50
1:I:247:TRP:NE1	1:I:677:GLN:O	2.34	0.50
1:I:545:GLN:OE1	1:I:545:GLN:N	2.34	0.50
1:L:391:SER:OG	1:L:392:PHE:N	2.44	0.50
1:N:553:ASP:CG	1:N:554:ILE:H	2.19	0.50
1:N:715:ASP:O	1:m:259:GLN:HB3	2.11	0.50
1:O:304:TRP:CE2	1:O:689:GLU:HG2	2.46	0.50
1:O:584:GLN:OE1	1:O:584:GLN:N	2.43	0.50
1:P:391:SER:OG	1:P:392:PHE:N	2.44	0.50
1:P:609:ARG:O	1:P:729:ARG:NH2	2.45	0.50
1:P:715:ASP:O	1:Q:259:GLN:HB3	2.11	0.50
1:Q:610:ASP:OD1	1:Q:611:VAL:N	2.43	0.50
1:S:609:ARG:O	1:S:729:ARG:NH2	2.44	0.50
1:S:695:ASN:HB2	1:S:696:PRO:HD2	1.93	0.50
1:U:553:ASP:CG	1:U:554:ILE:H	2.19	0.50
1:U:561:ASP:OD1	1:U:562:GLU:N	2.44	0.50
1:U:703:ASN:OD1	1:U:704:TYR:N	2.43	0.50
1:V:700:TYR:HB2	1:V:730:TYR:CZ	2.45	0.50
1:W:438:ILE:HG22	1:W:439:ASP:H	1.77	0.50
1:X:561:ASP:OD1	1:X:562:GLU:N	2.44	0.50
1:Y:438:ILE:HG22	1:Y:439:ASP:H	1.77	0.50
1:Y:581:THR:N	1:Y:591:ALA:O	2.37	0.50
1:Z:347:GLU:OE1	1:Z:347:GLU:N	2.41	0.50
1:b:581:THR:N	1:b:591:ALA:O	2.37	0.50
1:c:633:LEU:HB2	1:p:476:ASN:HA	1.92	0.50
1:d:609:ARG:O	1:d:729:ARG:NH2	2.44	0.50
1:d:693:ARG:NH1	1:l:391:SER:HA	2.25	0.50
1:g:695:ASN:HB2	1:g:696:PRO:HD2	1.93	0.50
1:h:610:ASP:OD1	1:h:611:VAL:N	2.43	0.50
1:j:438:ILE:HG22	1:j:439:ASP:H	1.77	0.50
1:l:609:ARG:O	1:l:729:ARG:NH2	2.45	0.50
1:n:326:ASN:O	1:n:329:THR:OG1	2.19	0.50
1:n:610:ASP:OD1	1:n:611:VAL:N	2.43	0.50
1:r:438:ILE:HG22	1:r:439:ASP:H	1.77	0.50
1:r:610:ASP:OD1	1:r:611:VAL:N	2.43	0.50
1:s:304:TRP:CE2	1:s:689:GLU:HG2	2.46	0.50
1:t:259:GLN:HB3	1:y:715:ASP:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:609:ARG:O	1:t:729:ARG:NH2	2.45	0.50
1:u:304:TRP:CE2	1:u:689:GLU:HG2	2.46	0.50
1:u:609:ARG:O	1:u:729:ARG:NH2	2.44	0.50
1:u:695:ASN:HB2	1:u:696:PRO:HD2	1.93	0.50
1:v:703:ASN:OD1	1:v:704:TYR:N	2.43	0.50
1:v:715:ASP:O	1:w:259:GLN:HB3	2.11	0.50
1:w:259:GLN:HA	1:w:275:TYR:HD1	1.74	0.50
1:x:561:ASP:OD1	1:x:562:GLU:N	2.44	0.50
1:z:609:ARG:O	1:z:729:ARG:NH2	2.45	0.50
1:2:553:ASP:CG	1:2:554:ILE:H	2.19	0.50
1:2:658:SER:O	1:2:659:THR:OG1	2.27	0.50
1:3:584:GLN:OE1	1:3:584:GLN:N	2.43	0.50
1:4:545:GLN:OE1	1:4:545:GLN:N	2.34	0.50
1:7:268:ASN:HA	1:7:271:HIS:NE2	2.25	0.50
1:7:391:SER:OG	1:7:392:PHE:N	2.44	0.50
1:7:429:SER:OG	1:7:431:ASP:OD1	2.18	0.50
1:8:391:SER:OG	1:8:392:PHE:N	2.44	0.50
1:B:257:TYR:OH	1:B:396:GLU:OE1	2.28	0.50
1:B:326:ASN:O	1:B:329:THR:OG1	2.19	0.50
1:C:259:GLN:HB3	1:D:715:ASP:O	2.12	0.50
1:C:438:ILE:HG22	1:C:439:ASP:H	1.77	0.50
1:D:584:GLN:OE1	1:D:584:GLN:N	2.43	0.50
1:D:695:ASN:HB2	1:D:696:PRO:HD2	1.93	0.50
1:E:268:ASN:HA	1:E:271:HIS:NE2	2.25	0.50
1:F:452:SER:OG	1:F:456:THR:O	2.27	0.50
1:F:609:ARG:O	1:F:729:ARG:NH2	2.44	0.50
1:H:304:TRP:CE2	1:H:689:GLU:HG2	2.46	0.50
1:J:438:ILE:HG22	1:J:439:ASP:H	1.77	0.50
1:K:259:GLN:HB3	1:7:715:ASP:O	2.11	0.50
1:L:438:ILE:HG22	1:L:439:ASP:H	1.77	0.50
1:M:553:ASP:CG	1:M:554:ILE:H	2.19	0.50
1:N:561:ASP:OD1	1:N:562:GLU:N	2.44	0.50
1:N:609:ARG:O	1:N:729:ARG:NH2	2.44	0.50
1:O:257:TYR:OH	1:O:396:GLU:OE1	2.28	0.50
1:R:609:ARG:O	1:R:729:ARG:NH2	2.45	0.50
1:U:247:TRP:NE1	1:U:677:GLN:O	2.34	0.50
1:V:610:ASP:OD1	1:V:611:VAL:N	2.43	0.50
1:Y:561:ASP:OD1	1:Y:562:GLU:N	2.44	0.50
1:Z:259:GLN:HB3	1:a:715:ASP:O	2.11	0.50
1:a:561:ASP:OD1	1:a:562:GLU:N	2.44	0.50
1:a:610:ASP:OD1	1:a:611:VAL:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:257:TYR:OH	1:b:396:GLU:OE1	2.28	0.50
1:b:361:CYS:O	1:b:362:LEU:HD12	2.12	0.50
1:b:452:SER:OG	1:b:456:THR:O	2.27	0.50
1:b:561:ASP:OD1	1:b:562:GLU:N	2.44	0.50
1:b:698:ILE:O	1:c:701:THR:OG1	2.20	0.50
1:g:561:ASP:OD1	1:g:562:GLU:N	2.44	0.50
1:h:609:ARG:O	1:h:729:ARG:NH2	2.44	0.50
1:i:561:ASP:OD1	1:i:562:GLU:N	2.44	0.50
1:i:695:ASN:HB2	1:i:696:PRO:HD2	1.93	0.50
1:k:581:THR:N	1:k:591:ALA:O	2.37	0.50
1:k:609:ARG:O	1:k:729:ARG:NH2	2.44	0.50
1:k:610:ASP:OD1	1:k:611:VAL:N	2.43	0.50
1:m:553:ASP:CG	1:m:554:ILE:H	2.19	0.50
1:p:715:ASP:OD1	1:p:716:THR:N	2.38	0.50
1:q:438:ILE:HG22	1:q:439:ASP:H	1.77	0.50
1:s:609:ARG:O	1:s:729:ARG:NH2	2.44	0.50
1:u:715:ASP:O	1:2:259:GLN:HB3	2.10	0.50
1:z:259:GLN:HB3	1:4:715:ASP:O	2.11	0.50
1:3:257:TYR:OH	1:3:396:GLU:OE1	2.28	0.50
1:5:610:ASP:OD1	1:5:611:VAL:N	2.43	0.50
1:6:545:GLN:OE1	1:6:545:GLN:N	2.34	0.50
1:6:553:ASP:CG	1:6:554:ILE:H	2.19	0.50
1:8:609:ARG:O	1:8:729:ARG:NH2	2.45	0.50
1:A:256:LEU:HD12	1:A:256:LEU:O	2.12	0.50
1:A:304:TRP:CE2	1:A:689:GLU:HG2	2.46	0.50
1:B:361:CYS:O	1:B:362:LEU:HD12	2.12	0.50
1:C:610:ASP:OD1	1:C:611:VAL:N	2.43	0.50
1:E:561:ASP:OD1	1:E:562:GLU:N	2.44	0.50
1:E:609:ARG:O	1:E:729:ARG:NH2	2.45	0.50
1:G:715:ASP:OD1	1:G:716:THR:N	2.38	0.50
1:H:259:GLN:HB3	1:Z:715:ASP:O	2.11	0.50
1:H:609:ARG:O	1:H:729:ARG:NH2	2.45	0.50
1:J:610:ASP:OD1	1:J:611:VAL:N	2.43	0.50
1:K:609:ARG:O	1:K:729:ARG:NH2	2.45	0.50
1:K:715:ASP:O	1:L:259:GLN:HB3	2.12	0.50
1:L:257:TYR:OH	1:L:396:GLU:OE1	2.28	0.50
1:M:438:ILE:HG22	1:M:439:ASP:H	1.77	0.50
1:M:561:ASP:OD1	1:M:562:GLU:N	2.44	0.50
1:M:610:ASP:OD1	1:M:611:VAL:N	2.43	0.50
1:S:256:LEU:O	1:S:256:LEU:HD12	2.12	0.50
1:S:561:ASP:OD1	1:S:562:GLU:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:256:LEU:O	1:T:256:LEU:HD12	2.12	0.50
1:T:582:ASN:OD1	1:T:591:ALA:N	2.35	0.50
1:V:257:TYR:OH	1:V:396:GLU:OE1	2.28	0.50
1:X:582:ASN:OD1	1:X:591:ALA:N	2.35	0.50
1:X:695:ASN:HB2	1:X:696:PRO:HD2	1.93	0.50
1:Y:610:ASP:OD1	1:Y:611:VAL:N	2.43	0.50
1:a:609:ARG:O	1:a:729:ARG:NH2	2.45	0.50
1:f:438:ILE:HG22	1:f:439:ASP:H	1.77	0.50
1:m:443:TYR:HA	1:m:464:GLN:HA	1.92	0.50
1:n:553:ASP:CG	1:n:554:ILE:H	2.19	0.50
1:o:304:TRP:CE2	1:o:689:GLU:HG2	2.46	0.50
1:r:304:TRP:CE2	1:r:689:GLU:HG2	2.46	0.50
1:t:715:ASP:O	1:6:259:GLN:HB3	2.11	0.50
1:w:584:GLN:OE1	1:w:584:GLN:N	2.43	0.50
1:y:257:TYR:OH	1:y:396:GLU:OE1	2.28	0.50
1:y:361:CYS:O	1:y:362:LEU:HD12	2.12	0.50
1:y:452:SER:OG	1:y:456:THR:O	2.27	0.50
1:y:700:TYR:HB2	1:y:730:TYR:CZ	2.45	0.50
1:3:438:ILE:HG22	1:3:439:ASP:H	1.77	0.50
1:3:561:ASP:OD1	1:3:562:GLU:N	2.44	0.50
1:4:553:ASP:CG	1:4:554:ILE:H	2.19	0.50
1:5:561:ASP:OD1	1:5:562:GLU:N	2.44	0.50
1:6:609:ARG:O	1:6:729:ARG:NH2	2.44	0.50
1:6:695:ASN:HB2	1:6:696:PRO:HD2	1.93	0.50
1:7:449:ASN:O	1:7:450:THR:OG1	2.20	0.50
1:7:561:ASP:OD1	1:7:562:GLU:N	2.44	0.50
1:D:259:GLN:HB3	1:E:715:ASP:O	2.11	0.50
1:F:553:ASP:CG	1:F:554:ILE:H	2.19	0.50
1:G:308:PRO:HD3	1:G:637:PHE:HE2	1.77	0.50
1:J:561:ASP:OD1	1:J:562:GLU:N	2.44	0.50
1:K:361:CYS:O	1:K:362:LEU:HD12	2.12	0.50
1:K:695:ASN:HB2	1:K:696:PRO:HD2	1.93	0.50
1:N:610:ASP:OD1	1:N:611:VAL:N	2.44	0.50
1:N:700:TYR:HB2	1:N:730:TYR:CZ	2.45	0.50
1:O:391:SER:OG	1:O:392:PHE:N	2.44	0.50
1:O:561:ASP:OD1	1:O:562:GLU:N	2.44	0.50
1:P:582:ASN:OD1	1:P:591:ALA:N	2.35	0.50
1:Q:256:LEU:HD12	1:Q:256:LEU:O	2.12	0.50
1:Q:561:ASP:OD1	1:Q:562:GLU:N	2.44	0.50
1:R:361:CYS:O	1:R:362:LEU:HD12	2.12	0.50
1:T:308:PRO:HD3	1:T:637:PHE:HE2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:361:CYS:O	1:U:362:LEU:HD12	2.12	0.50
1:V:256:LEU:HD12	1:V:256:LEU:O	2.12	0.50
1:V:304:TRP:CE2	1:V:689:GLU:HG2	2.46	0.50
1:V:361:CYS:O	1:V:362:LEU:HD12	2.12	0.50
1:V:438:ILE:HG22	1:V:439:ASP:H	1.77	0.50
1:W:443:TYR:HA	1:W:464:GLN:HA	1.92	0.50
1:X:609:ARG:O	1:X:729:ARG:NH2	2.44	0.50
1:a:700:TYR:HB2	1:a:730:TYR:CZ	2.45	0.50
1:b:429:SER:OG	1:b:431:ASP:OD1	2.18	0.50
1:c:496:ASN:HA	1:p:586:GLY:O	2.11	0.50
1:e:695:ASN:HB2	1:e:696:PRO:HD2	1.93	0.50
1:f:304:TRP:CE2	1:f:689:GLU:HG2	2.46	0.50
1:f:609:ARG:O	1:f:729:ARG:NH2	2.44	0.50
1:h:256:LEU:HD12	1:h:256:LEU:O	2.12	0.50
1:h:452:SER:OG	1:h:456:THR:O	2.27	0.50
1:i:438:ILE:HG22	1:i:439:ASP:H	1.77	0.50
1:j:609:ARG:O	1:j:729:ARG:NH2	2.44	0.50
1:k:256:LEU:O	1:k:256:LEU:HD12	2.12	0.50
1:l:361:CYS:O	1:l:362:LEU:HD12	2.12	0.50
1:o:256:LEU:O	1:o:256:LEU:HD12	2.12	0.50
1:q:391:SER:OG	1:q:392:PHE:N	2.44	0.50
1:r:561:ASP:OD1	1:r:562:GLU:N	2.44	0.50
1:t:361:CYS:O	1:t:362:LEU:HD12	2.12	0.50
1:t:561:ASP:OD1	1:t:562:GLU:N	2.44	0.50
1:u:257:TYR:OH	1:u:396:GLU:OE1	2.28	0.50
1:u:584:GLN:OE1	1:u:584:GLN:N	2.43	0.50
1:v:361:CYS:O	1:v:362:LEU:HD12	2.12	0.50
1:w:609:ARG:O	1:w:729:ARG:NH2	2.45	0.50
1:w:695:ASN:HB2	1:w:696:PRO:HD2	1.93	0.50
1:x:695:ASN:HB2	1:x:696:PRO:HD2	1.93	0.50
1:y:304:TRP:CE2	1:y:689:GLU:HG2	2.46	0.50
1:y:553:ASP:CG	1:y:554:ILE:H	2.19	0.50
1:y:610:ASP:OD1	1:y:611:VAL:N	2.43	0.50
1:z:361:CYS:O	1:z:362:LEU:HD12	2.12	0.50
1:1:256:LEU:O	1:1:256:LEU:HD12	2.12	0.50
1:1:308:PRO:HD3	1:1:637:PHE:HE2	1.77	0.50
1:2:438:ILE:HG22	1:2:439:ASP:H	1.77	0.50
1:3:452:SER:OG	1:3:456:THR:O	2.27	0.50
1:4:304:TRP:CE2	1:4:689:GLU:HG2	2.46	0.50
1:5:256:LEU:O	1:5:256:LEU:HD12	2.12	0.50
1:7:609:ARG:O	1:7:729:ARG:NH2	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:553:ASP:CG	1:B:554:ILE:H	2.19	0.50
1:C:257:TYR:OH	1:C:396:GLU:OE1	2.28	0.50
1:D:361:CYS:O	1:D:362:LEU:HD12	2.12	0.50
1:D:391:SER:OG	1:D:392:PHE:N	2.44	0.50
1:D:561:ASP:OD1	1:D:562:GLU:N	2.44	0.50
1:F:256:LEU:HD12	1:F:256:LEU:O	2.12	0.50
1:F:695:ASN:HB2	1:F:696:PRO:HD2	1.93	0.50
1:G:361:CYS:O	1:G:362:LEU:HD12	2.12	0.50
1:J:304:TRP:CE2	1:J:689:GLU:HG2	2.46	0.50
1:J:609:ARG:O	1:J:729:ARG:NH2	2.44	0.50
1:K:391:SER:OG	1:K:392:PHE:N	2.44	0.50
1:L:610:ASP:OD1	1:L:611:VAL:N	2.43	0.50
1:M:304:TRP:CE2	1:M:689:GLU:HG2	2.46	0.50
1:R:438:ILE:HG22	1:R:439:ASP:H	1.77	0.50
1:R:561:ASP:OD1	1:R:562:GLU:N	2.44	0.50
1:S:361:CYS:O	1:S:362:LEU:HD12	2.12	0.50
1:S:438:ILE:HG22	1:S:439:ASP:H	1.77	0.50
1:T:361:CYS:O	1:T:362:LEU:HD12	2.12	0.50
1:X:553:ASP:CG	1:X:554:ILE:H	2.19	0.50
1:Y:304:TRP:CE2	1:Y:689:GLU:HG2	2.46	0.50
1:Z:443:TYR:HA	1:Z:464:GLN:HA	1.92	0.50
1:b:391:SER:OG	1:b:392:PHE:N	2.44	0.50
1:b:438:ILE:HG22	1:b:439:ASP:H	1.77	0.50
1:c:484:ARG:HB2	1:p:579:VAL:HG22	1.93	0.50
1:c:545:GLN:OE1	1:c:545:GLN:N	2.34	0.50
1:c:609:ARG:O	1:c:729:ARG:NH2	2.44	0.50
1:d:438:ILE:HG22	1:d:439:ASP:H	1.77	0.50
1:d:584:GLN:OE1	1:d:584:GLN:N	2.43	0.50
1:e:609:ARG:O	1:e:729:ARG:NH2	2.44	0.50
1:g:259:GLN:HA	1:g:275:TYR:HD1	1.74	0.50
1:g:361:CYS:O	1:g:362:LEU:HD12	2.12	0.50
1:g:438:ILE:HG22	1:g:439:ASP:H	1.77	0.50
1:h:438:ILE:HG22	1:h:439:ASP:H	1.77	0.50
1:h:581:THR:N	1:h:591:ALA:O	2.37	0.50
1:j:304:TRP:CE2	1:j:689:GLU:HG2	2.46	0.50
1:k:438:ILE:HG22	1:k:439:ASP:H	1.77	0.50
1:n:256:LEU:O	1:n:256:LEU:HD12	2.12	0.50
1:n:304:TRP:CE2	1:n:689:GLU:HG2	2.46	0.50
1:r:695:ASN:HB2	1:r:696:PRO:HD2	1.93	0.50
1:s:416:GLU:OE1	1:s:416:GLU:N	2.28	0.50
1:t:429:SER:OG	1:t:431:ASP:OD1	2.18	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:438:ILE:HG22	1:t:439:ASP:H	1.77	0.50
1:u:256:LEU:HD12	1:u:256:LEU:O	2.12	0.50
1:w:304:TRP:CE2	1:w:689:GLU:HG2	2.46	0.50
1:w:443:TYR:HA	1:w:464:GLN:HA	1.92	0.50
1:x:609:ARG:O	1:x:729:ARG:NH2	2.44	0.50
1:y:438:ILE:HG22	1:y:439:ASP:H	1.77	0.50
1:z:553:ASP:CG	1:z:554:ILE:H	2.19	0.50
1:2:695:ASN:HB2	1:2:696:PRO:HD2	1.93	0.50
1:3:361:CYS:O	1:3:362:LEU:HD12	2.12	0.50
1:3:391:SER:OG	1:3:392:PHE:N	2.44	0.50
1:4:609:ARG:O	1:4:729:ARG:NH2	2.44	0.50
1:5:609:ARG:O	1:5:729:ARG:NH2	2.45	0.50
1:6:256:LEU:HD12	1:6:256:LEU:O	2.12	0.50
1:6:571:VAL:HG12	1:6:572:ALA:N	2.23	0.50
1:8:695:ASN:HB2	1:8:696:PRO:HD2	1.93	0.50
1:B:391:SER:OG	1:B:392:PHE:N	2.44	0.50
1:B:429:SER:OG	1:B:431:ASP:OD1	2.18	0.50
1:B:610:ASP:OD1	1:B:611:VAL:N	2.43	0.50
1:C:347:GLU:OE1	1:C:347:GLU:N	2.41	0.50
1:E:256:LEU:HD12	1:E:256:LEU:O	2.12	0.50
1:E:308:PRO:HD3	1:E:637:PHE:HE2	1.77	0.50
1:E:553:ASP:CG	1:E:554:ILE:H	2.19	0.50
1:G:256:LEU:O	1:G:256:LEU:HD12	2.12	0.50
1:H:361:CYS:O	1:H:362:LEU:HD12	2.12	0.50
1:K:561:ASP:OD1	1:K:562:GLU:N	2.44	0.50
1:M:609:ARG:O	1:M:729:ARG:NH2	2.45	0.50
1:N:361:CYS:O	1:N:362:LEU:HD12	2.12	0.50
1:O:361:CYS:O	1:O:362:LEU:HD12	2.12	0.50
1:O:438:ILE:HG22	1:O:439:ASP:H	1.77	0.50
1:O:443:TYR:HA	1:O:464:GLN:HA	1.92	0.50
1:O:695:ASN:HB2	1:O:696:PRO:HD2	1.93	0.50
1:P:438:ILE:HG22	1:P:439:ASP:H	1.77	0.50
1:P:695:ASN:HB2	1:P:696:PRO:HD2	1.93	0.50
1:Q:609:ARG:O	1:Q:729:ARG:NH2	2.45	0.50
1:R:347:GLU:OE1	1:R:347:GLU:N	2.41	0.50
1:R:695:ASN:HB2	1:R:696:PRO:HD2	1.93	0.50
1:S:257:TYR:OH	1:S:396:GLU:OE1	2.28	0.50
1:S:584:GLN:OE1	1:S:584:GLN:N	2.43	0.50
1:T:391:SER:OG	1:T:392:PHE:N	2.44	0.50
1:V:553:ASP:CG	1:V:554:ILE:H	2.19	0.50
1:V:609:ARG:O	1:V:729:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:391:SER:OG	1:W:392:PHE:N	2.44	0.50
1:X:308:PRO:HD3	1:X:637:PHE:HE2	1.77	0.50
1:Y:695:ASN:HB2	1:Y:696:PRO:HD2	1.93	0.50
1:a:304:TRP:CE2	1:a:689:GLU:HG2	2.46	0.50
1:b:610:ASP:OD1	1:b:611:VAL:N	2.43	0.50
1:d:695:ASN:HB2	1:d:696:PRO:HD2	1.93	0.50
1:e:304:TRP:CE2	1:e:689:GLU:HG2	2.46	0.50
1:e:361:CYS:O	1:e:362:LEU:HD12	2.12	0.50
1:e:584:GLN:OE1	1:e:584:GLN:N	2.43	0.50
1:f:695:ASN:HB2	1:f:696:PRO:HD2	1.93	0.50
1:g:304:TRP:CE2	1:g:689:GLU:HG2	2.46	0.50
1:h:361:CYS:O	1:h:362:LEU:HD12	2.12	0.50
1:h:541:ILE:HG22	1:h:542:PHE:O	2.12	0.50
1:i:361:CYS:O	1:i:362:LEU:HD12	2.12	0.50
1:i:609:ARG:O	1:i:729:ARG:NH2	2.44	0.50
1:j:695:ASN:HB2	1:j:696:PRO:HD2	1.93	0.50
1:k:452:SER:OG	1:k:456:THR:O	2.27	0.50
1:k:541:ILE:HG22	1:k:542:PHE:O	2.12	0.50
1:m:582:ASN:OD1	1:m:591:ALA:N	2.35	0.50
1:n:449:ASN:O	1:n:450:THR:OG1	2.20	0.50
1:n:609:ARG:O	1:n:729:ARG:NH2	2.44	0.50
1:p:361:CYS:O	1:p:362:LEU:HD12	2.12	0.50
1:p:541:ILE:HG22	1:p:542:PHE:O	2.12	0.50
1:p:694:TRP:CZ3	1:s:292:SER:HB3	2.46	0.50
1:q:443:TYR:HA	1:q:464:GLN:HA	1.92	0.50
1:r:361:CYS:O	1:r:362:LEU:HD12	2.12	0.50
1:s:361:CYS:O	1:s:362:LEU:HD12	2.12	0.50
1:t:347:GLU:OE1	1:t:347:GLU:N	2.41	0.50
1:t:695:ASN:HB2	1:t:696:PRO:HD2	1.93	0.50
1:u:361:CYS:O	1:u:362:LEU:HD12	2.12	0.50
1:u:438:ILE:HG22	1:u:439:ASP:H	1.77	0.50
1:v:695:ASN:HB2	1:v:696:PRO:HD2	1.93	0.50
1:x:308:PRO:HD3	1:x:637:PHE:HE2	1.77	0.50
1:x:553:ASP:CG	1:x:554:ILE:H	2.19	0.50
1:y:247:TRP:NE1	1:y:677:GLN:O	2.34	0.50
1:y:256:LEU:HD12	1:y:256:LEU:O	2.12	0.50
1:1:361:CYS:O	1:1:362:LEU:HD12	2.12	0.50
1:1:391:SER:OG	1:1:392:PHE:N	2.44	0.50
1:1:553:ASP:CG	1:1:554:ILE:H	2.19	0.50
1:3:443:TYR:HA	1:3:464:GLN:HA	1.92	0.50
1:4:268:ASN:HA	1:4:271:HIS:NE2	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:256:LEU:HD12	1:7:256:LEU:O	2.12	0.50
1:7:326:ASN:O	1:7:329:THR:OG1	2.19	0.50
1:7:553:ASP:CG	1:7:554:ILE:H	2.19	0.50
1:8:582:ASN:OD1	1:8:591:ALA:N	2.35	0.50
1:A:609:ARG:O	1:A:729:ARG:NH2	2.45	0.50
1:B:438:ILE:HG22	1:B:439:ASP:H	1.77	0.50
1:F:259:GLN:HB3	1:R:715:ASP:O	2.11	0.50
1:F:571:VAL:HG12	1:F:572:ALA:N	2.23	0.50
1:G:541:ILE:HG22	1:G:542:PHE:O	2.12	0.50
1:G:553:ASP:CG	1:G:554:ILE:H	2.19	0.50
1:I:609:ARG:O	1:I:729:ARG:NH2	2.44	0.50
1:J:443:TYR:HA	1:J:464:GLN:HA	1.92	0.50
1:K:610:ASP:OD1	1:K:611:VAL:N	2.43	0.50
1:L:347:GLU:OE1	1:L:347:GLU:N	2.41	0.50
1:M:443:TYR:HA	1:M:464:GLN:HA	1.92	0.50
1:O:452:SER:OG	1:O:456:THR:O	2.27	0.50
1:Q:247:TRP:NE1	1:Q:677:GLN:O	2.34	0.50
1:T:257:TYR:OH	1:T:396:GLU:OE1	2.28	0.50
1:U:431:ASP:OD1	1:U:432:ALA:N	2.45	0.50
1:V:247:TRP:NE1	1:V:677:GLN:O	2.34	0.50
1:W:431:ASP:OD1	1:W:432:ALA:N	2.45	0.50
1:X:361:CYS:O	1:X:362:LEU:HD12	2.12	0.50
1:X:703:ASN:OD1	1:X:704:TYR:N	2.43	0.50
1:Y:609:ARG:O	1:Y:729:ARG:NH2	2.44	0.50
1:a:361:CYS:O	1:a:362:LEU:HD12	2.12	0.50
1:a:584:GLN:OE1	1:a:584:GLN:N	2.43	0.50
1:b:609:ARG:O	1:b:729:ARG:NH2	2.44	0.50
1:c:256:LEU:O	1:c:256:LEU:HD12	2.12	0.50
1:c:695:ASN:HB2	1:c:696:PRO:HD2	1.93	0.50
1:e:308:PRO:HD3	1:e:637:PHE:HE2	1.77	0.50
1:f:361:CYS:O	1:f:362:LEU:HD12	2.12	0.50
1:g:609:ARG:O	1:g:729:ARG:NH2	2.44	0.50
1:h:582:ASN:OD1	1:h:591:ALA:N	2.35	0.50
1:i:304:TRP:CE2	1:i:689:GLU:HG2	2.46	0.50
1:k:361:CYS:O	1:k:362:LEU:HD12	2.12	0.50
1:l:695:ASN:HB2	1:l:696:PRO:HD2	1.93	0.50
1:n:259:GLN:HB3	1:r:715:ASP:O	2.11	0.50
1:n:268:ASN:HA	1:n:271:HIS:NE2	2.25	0.50
1:o:609:ARG:O	1:o:729:ARG:NH2	2.44	0.50
1:p:256:LEU:HD12	1:p:256:LEU:O	2.12	0.50
1:p:308:PRO:HD3	1:p:637:PHE:HE2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:257:TYR:OH	1:r:396:GLU:OE1	2.28	0.50
1:r:541:ILE:HG22	1:r:542:PHE:O	2.12	0.50
1:s:256:LEU:HD12	1:s:256:LEU:O	2.12	0.50
1:v:247:TRP:NE1	1:v:677:GLN:O	2.34	0.50
1:v:391:SER:OG	1:v:392:PHE:N	2.44	0.50
1:w:308:PRO:HD3	1:w:637:PHE:HE2	1.77	0.50
1:y:609:ARG:O	1:y:729:ARG:NH2	2.45	0.50
1:z:452:SER:OG	1:z:456:THR:O	2.27	0.50
1:4:256:LEU:O	1:4:256:LEU:HD12	2.12	0.50
1:5:247:TRP:NE1	1:5:677:GLN:O	2.34	0.50
1:5:326:ASN:O	1:5:329:THR:OG1	2.19	0.50
1:6:541:ILE:HG22	1:6:542:PHE:O	2.12	0.50
1:7:431:ASP:OD1	1:7:432:ALA:N	2.45	0.50
1:8:361:CYS:O	1:8:362:LEU:HD12	2.12	0.50
1:B:541:ILE:HG22	1:B:542:PHE:O	2.12	0.50
1:B:609:ARG:O	1:B:729:ARG:NH2	2.44	0.50
1:C:545:GLN:OE1	1:C:545:GLN:N	2.34	0.50
1:D:610:ASP:OD1	1:D:611:VAL:N	2.43	0.50
1:E:438:ILE:HG22	1:E:439:ASP:H	1.77	0.50
1:F:416:GLU:OE1	1:F:416:GLU:N	2.28	0.50
1:F:541:ILE:HG22	1:F:542:PHE:O	2.12	0.50
1:G:247:TRP:NE1	1:G:677:GLN:O	2.34	0.50
1:H:256:LEU:O	1:H:256:LEU:HD12	2.12	0.50
1:I:256:LEU:HD12	1:I:256:LEU:O	2.12	0.50
1:I:695:ASN:HB2	1:I:696:PRO:HD2	1.93	0.50
1:M:715:ASP:O	1:N:259:GLN:HB3	2.11	0.50
1:N:308:PRO:HD3	1:N:637:PHE:HE2	1.77	0.50
1:N:438:ILE:HG22	1:N:439:ASP:H	1.77	0.50
1:N:584:GLN:OE1	1:N:584:GLN:N	2.43	0.50
1:P:361:CYS:O	1:P:362:LEU:HD12	2.12	0.50
1:U:391:SER:OG	1:U:392:PHE:N	2.44	0.50
1:U:695:ASN:HB2	1:U:696:PRO:HD2	1.93	0.50
1:V:541:ILE:HG22	1:V:542:PHE:O	2.12	0.50
1:W:361:CYS:O	1:W:362:LEU:HD12	2.12	0.50
1:X:259:GLN:HB3	1:f:715:ASP:O	2.11	0.50
1:Y:257:TYR:OH	1:Y:396:GLU:OE1	2.28	0.50
1:Y:361:CYS:O	1:Y:362:LEU:HD12	2.12	0.50
1:Y:541:ILE:HG22	1:Y:542:PHE:O	2.12	0.50
1:Z:582:ASN:OD1	1:Z:591:ALA:N	2.35	0.50
1:b:541:ILE:HG22	1:b:542:PHE:O	2.12	0.50
1:b:553:ASP:CG	1:b:554:ILE:H	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:308:PRO:HD3	1:d:637:PHE:HE2	1.77	0.50
1:e:438:ILE:HG22	1:e:439:ASP:H	1.77	0.50
1:e:443:TYR:HA	1:e:464:GLN:HA	1.92	0.50
1:f:431:ASP:OD1	1:f:432:ALA:N	2.45	0.50
1:g:541:ILE:HG22	1:g:542:PHE:O	2.12	0.50
1:i:259:GLN:HA	1:i:275:TYR:HD1	1.74	0.50
1:j:259:GLN:HB3	1:l:715:ASP:O	2.12	0.50
1:j:361:CYS:O	1:j:362:LEU:HD12	2.12	0.50
1:j:431:ASP:OD1	1:j:432:ALA:N	2.45	0.50
1:l:553:ASP:CG	1:l:554:ILE:H	2.19	0.50
1:o:326:ASN:O	1:o:329:THR:OG1	2.19	0.50
1:p:553:ASP:CG	1:p:554:ILE:H	2.19	0.50
1:q:431:ASP:OD1	1:q:432:ALA:N	2.45	0.50
1:q:609:ARG:O	1:q:729:ARG:NH2	2.45	0.50
1:r:431:ASP:OD1	1:r:432:ALA:N	2.45	0.50
1:r:609:ARG:O	1:r:729:ARG:NH2	2.44	0.50
1:u:541:ILE:HG22	1:u:542:PHE:O	2.12	0.50
1:v:541:ILE:HG22	1:v:542:PHE:O	2.12	0.50
1:w:361:CYS:O	1:w:362:LEU:HD12	2.12	0.50
1:x:361:CYS:O	1:x:362:LEU:HD12	2.12	0.50
1:y:695:ASN:HB2	1:y:696:PRO:HD2	1.93	0.50
1:z:304:TRP:CE2	1:z:689:GLU:HG2	2.46	0.50
1:1:257:TYR:OH	1:1:396:GLU:OE1	2.28	0.50
1:3:695:ASN:HB2	1:3:696:PRO:HD2	1.93	0.50
1:8:438:ILE:HG22	1:8:439:ASP:H	1.77	0.50
1:A:326:ASN:O	1:A:329:THR:OG1	2.19	0.50
1:A:582:ASN:OD1	1:A:591:ALA:N	2.35	0.50
1:C:431:ASP:OD1	1:C:432:ALA:N	2.45	0.50
1:C:541:ILE:HG22	1:C:542:PHE:O	2.12	0.50
1:C:695:ASN:HB2	1:C:696:PRO:HD2	1.93	0.50
1:D:256:LEU:O	1:D:256:LEU:HD12	2.12	0.50
1:E:431:ASP:OD1	1:E:432:ALA:N	2.45	0.50
1:H:553:ASP:CG	1:H:554:ILE:H	2.19	0.50
1:J:715:ASP:O	1:a:259:GLN:HB3	2.11	0.50
1:K:438:ILE:HG22	1:K:439:ASP:H	1.77	0.50
1:L:541:ILE:HG22	1:L:542:PHE:O	2.12	0.50
1:L:545:GLN:OE1	1:L:545:GLN:N	2.34	0.50
1:N:304:TRP:CE2	1:N:689:GLU:HG2	2.46	0.50
1:S:541:ILE:HG22	1:S:542:PHE:O	2.12	0.50
1:T:553:ASP:CG	1:T:554:ILE:H	2.19	0.50
1:V:695:ASN:HB2	1:V:696:PRO:HD2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:609:ARG:O	1:W:729:ARG:NH2	2.45	0.50
1:X:256:LEU:HD12	1:X:256:LEU:O	2.12	0.50
1:X:431:ASP:OD1	1:X:432:ALA:N	2.45	0.50
1:X:438:ILE:HG22	1:X:439:ASP:H	1.77	0.50
1:Y:431:ASP:OD1	1:Y:432:ALA:N	2.45	0.50
1:Y:553:ASP:CG	1:Y:554:ILE:H	2.19	0.50
1:a:308:PRO:HD3	1:a:637:PHE:HE2	1.77	0.50
1:b:431:ASP:OD1	1:b:432:ALA:N	2.45	0.50
1:c:492:SER:OG	1:p:458:SER:OG	2.23	0.50
1:i:541:ILE:HG22	1:i:542:PHE:O	2.12	0.50
1:k:582:ASN:OD1	1:k:591:ALA:N	2.35	0.50
1:l:304:TRP:CE2	1:l:689:GLU:HG2	2.46	0.50
1:m:429:SER:OG	1:m:431:ASP:OD1	2.18	0.50
1:m:609:ARG:O	1:m:729:ARG:NH2	2.44	0.50
1:p:438:ILE:HG22	1:p:439:ASP:H	1.77	0.50
1:s:553:ASP:CG	1:s:554:ILE:H	2.19	0.50
1:t:541:ILE:HG22	1:t:542:PHE:O	2.12	0.50
1:v:609:ARG:O	1:v:729:ARG:NH2	2.45	0.50
1:x:256:LEU:HD12	1:x:256:LEU:O	2.12	0.50
1:x:431:ASP:OD1	1:x:432:ALA:N	2.45	0.50
1:x:438:ILE:HG22	1:x:439:ASP:H	1.76	0.50
1:y:308:PRO:HD3	1:y:637:PHE:HE2	1.77	0.50
1:y:582:ASN:OD1	1:y:591:ALA:N	2.35	0.50
1:z:695:ASN:HB2	1:z:696:PRO:HD2	1.93	0.50
1:2:308:PRO:HD3	1:2:637:PHE:HE2	1.77	0.50
1:4:431:ASP:OD1	1:4:432:ALA:N	2.45	0.50
1:7:347:GLU:OE1	1:7:347:GLU:N	2.41	0.50
1:B:431:ASP:OD1	1:B:432:ALA:N	2.45	0.49
1:D:438:ILE:HG22	1:D:439:ASP:H	1.77	0.49
1:G:438:ILE:HG22	1:G:439:ASP:H	1.77	0.49
1:G:561:ASP:OD1	1:G:562:GLU:N	2.44	0.49
1:I:541:ILE:HG22	1:I:542:PHE:O	2.12	0.49
1:N:391:SER:OG	1:N:392:PHE:N	2.44	0.49
1:N:541:ILE:HG22	1:N:542:PHE:O	2.12	0.49
1:O:553:ASP:CG	1:O:554:ILE:H	2.19	0.49
1:P:256:LEU:O	1:P:256:LEU:HD12	2.12	0.49
1:Q:438:ILE:HG22	1:Q:439:ASP:H	1.77	0.49
1:Q:541:ILE:HG22	1:Q:542:PHE:O	2.12	0.49
1:R:541:ILE:HG22	1:R:542:PHE:O	2.12	0.49
1:T:443:TYR:HA	1:T:464:GLN:HA	1.93	0.49
1:U:541:ILE:HG22	1:U:542:PHE:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:609:ARG:O	1:U:729:ARG:NH2	2.44	0.49
1:V:308:PRO:HD3	1:V:637:PHE:HE2	1.77	0.49
1:X:584:GLN:OE1	1:X:584:GLN:N	2.43	0.49
1:Y:391:SER:OG	1:Y:392:PHE:N	2.44	0.49
1:Y:452:SER:OG	1:Y:456:THR:O	2.27	0.49
1:Z:429:SER:OG	1:Z:431:ASP:OD1	2.18	0.49
1:Z:561:ASP:OD1	1:Z:562:GLU:N	2.44	0.49
1:Z:609:ARG:O	1:Z:729:ARG:NH2	2.45	0.49
1:a:438:ILE:HG22	1:a:439:ASP:H	1.77	0.49
1:d:541:ILE:HG22	1:d:542:PHE:O	2.12	0.49
1:f:541:ILE:HG22	1:f:542:PHE:O	2.12	0.49
1:l:452:SER:OG	1:l:456:THR:O	2.27	0.49
1:n:431:ASP:OD1	1:n:432:ALA:N	2.45	0.49
1:p:561:ASP:OD1	1:p:562:GLU:N	2.44	0.49
1:q:361:CYS:O	1:q:362:LEU:HD12	2.12	0.49
1:q:584:GLN:OE1	1:q:584:GLN:N	2.43	0.49
1:r:391:SER:OG	1:r:392:PHE:N	2.44	0.49
1:r:452:SER:OG	1:r:456:THR:O	2.27	0.49
1:r:553:ASP:CG	1:r:554:ILE:H	2.19	0.49
1:x:584:GLN:OE1	1:x:584:GLN:N	2.43	0.49
1:x:703:ASN:OD1	1:x:704:TYR:N	2.43	0.49
1:y:431:ASP:OD1	1:y:432:ALA:N	2.45	0.49
1:y:541:ILE:HG22	1:y:542:PHE:O	2.12	0.49
1:1:452:SER:OG	1:1:456:THR:O	2.27	0.49
1:1:610:ASP:OD1	1:1:611:VAL:N	2.43	0.49
1:2:541:ILE:HG22	1:2:542:PHE:O	2.12	0.49
1:3:553:ASP:CG	1:3:554:ILE:H	2.19	0.49
1:5:541:ILE:HG22	1:5:542:PHE:O	2.12	0.49
1:6:438:ILE:HG22	1:6:439:ASP:H	1.77	0.49
1:7:438:ILE:HG22	1:7:439:ASP:H	1.77	0.49
1:8:256:LEU:O	1:8:256:LEU:HD12	2.12	0.49
1:F:308:PRO:HD3	1:F:637:PHE:HE2	1.77	0.49
1:H:431:ASP:OD1	1:H:432:ALA:N	2.45	0.49
1:H:695:ASN:HB2	1:H:696:PRO:HD2	1.93	0.49
1:K:443:TYR:HH	1:a:547:SER:HG	1.59	0.49
1:K:452:SER:OG	1:K:456:THR:O	2.27	0.49
1:L:695:ASN:HB2	1:L:696:PRO:HD2	1.93	0.49
1:Q:416:GLU:OE1	1:Q:416:GLU:N	2.28	0.49
1:R:431:ASP:OD1	1:R:432:ALA:N	2.45	0.49
1:T:610:ASP:OD1	1:T:611:VAL:N	2.43	0.49
1:U:308:PRO:HD3	1:U:637:PHE:HE2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:610:ASP:OD1	1:U:611:VAL:N	2.43	0.49
1:V:431:ASP:OD1	1:V:432:ALA:N	2.45	0.49
1:a:391:SER:OG	1:a:392:PHE:N	2.44	0.49
1:a:541:ILE:HG22	1:a:542:PHE:O	2.12	0.49
1:c:541:ILE:HG22	1:c:542:PHE:O	2.12	0.49
1:f:527:LYS:HG2	1:f:528:ASP:OD1	2.13	0.49
1:h:695:ASN:HB2	1:h:696:PRO:HD2	1.93	0.49
1:i:326:ASN:O	1:i:329:THR:OG1	2.19	0.49
1:j:527:LYS:HG2	1:j:528:ASP:OD1	2.13	0.49
1:j:541:ILE:HG22	1:j:542:PHE:O	2.12	0.49
1:k:695:ASN:HB2	1:k:696:PRO:HD2	1.93	0.49
1:o:438:ILE:HG22	1:o:439:ASP:H	1.77	0.49
1:o:553:ASP:OD1	1:o:554:ILE:N	2.45	0.49
1:o:582:ASN:OD1	1:o:591:ALA:N	2.35	0.49
1:p:247:TRP:NE1	1:p:677:GLN:O	2.34	0.49
1:p:431:ASP:OD1	1:p:432:ALA:N	2.45	0.49
1:q:508:TYR:HA	1:s:577:GLY:HA3	1.92	0.49
1:r:259:GLN:HB3	1:x:715:ASP:O	2.11	0.49
1:w:391:SER:OG	1:w:392:PHE:N	2.44	0.49
1:w:438:ILE:HG22	1:w:439:ASP:H	1.77	0.49
1:w:557:VAL:O	1:w:558:MET:HB2	2.13	0.49
1:z:541:ILE:HG22	1:z:542:PHE:O	2.12	0.49
1:5:361:CYS:O	1:5:362:LEU:HD12	2.12	0.49
1:6:308:PRO:HD3	1:6:637:PHE:HE2	1.77	0.49
1:7:541:ILE:HG22	1:7:542:PHE:O	2.12	0.49
1:7:582:ASN:OD1	1:7:591:ALA:N	2.35	0.49
1:A:361:CYS:O	1:A:362:LEU:HD12	2.12	0.49
1:A:438:ILE:HG22	1:A:439:ASP:H	1.77	0.49
1:B:695:ASN:HB2	1:B:696:PRO:HD2	1.93	0.49
1:C:527:LYS:HG2	1:C:528:ASP:OD1	2.13	0.49
1:D:452:SER:OG	1:D:456:THR:O	2.27	0.49
1:E:347:GLU:OE1	1:E:347:GLU:N	2.41	0.49
1:E:527:LYS:HG2	1:E:528:ASP:OD1	2.13	0.49
1:F:438:ILE:HG22	1:F:439:ASP:H	1.77	0.49
1:G:347:GLU:OE1	1:G:347:GLU:N	2.41	0.49
1:G:431:ASP:OD1	1:G:432:ALA:N	2.45	0.49
1:K:256:LEU:O	1:K:256:LEU:HD12	2.12	0.49
1:L:527:LYS:HG2	1:L:528:ASP:OD1	2.13	0.49
1:M:582:ASN:OD1	1:M:591:ALA:N	2.35	0.49
1:Q:553:ASP:CG	1:Q:554:ILE:H	2.19	0.49
1:T:547:SER:OG	1:l:443:TYR:OH	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:561:ASP:OD1	1:T:562:GLU:N	2.44	0.49
1:V:582:ASN:OD1	1:V:591:ALA:N	2.35	0.49
1:X:527:LYS:HG2	1:X:528:ASP:OD1	2.13	0.49
1:b:695:ASN:HB2	1:b:696:PRO:HD2	1.93	0.49
1:d:326:ASN:O	1:d:329:THR:OG1	2.19	0.49
1:e:391:SER:OG	1:e:392:PHE:N	2.44	0.49
1:f:443:TYR:OH	1:h:547:SER:OG	2.29	0.49
1:f:598:GLN:HG3	1:f:599:GLY:O	2.13	0.49
1:i:391:SER:OG	1:i:392:PHE:N	2.44	0.49
1:j:715:ASP:O	1:x:259:GLN:HB3	2.11	0.49
1:k:259:GLN:HB3	1:w:715:ASP:O	2.11	0.49
1:l:541:ILE:HG22	1:l:542:PHE:O	2.12	0.49
1:m:391:SER:OG	1:m:392:PHE:N	2.44	0.49
1:m:561:ASP:OD1	1:m:562:GLU:N	2.44	0.49
1:m:715:ASP:O	1:s:259:GLN:HB3	2.12	0.49
1:q:416:GLU:OE1	1:q:416:GLU:N	2.28	0.49
1:q:518:ASN:HD22	1:s:474:SER:N	2.10	0.49
1:r:256:LEU:O	1:r:256:LEU:HD12	2.12	0.49
1:s:431:ASP:OD1	1:s:432:ALA:N	2.45	0.49
1:t:431:ASP:OD1	1:t:432:ALA:N	2.45	0.49
1:u:443:TYR:OH	1:v:547:SER:OG	2.29	0.49
1:v:256:LEU:O	1:v:256:LEU:HD12	2.12	0.49
1:v:610:ASP:OD1	1:v:611:VAL:N	2.43	0.49
1:x:541:ILE:HG22	1:x:542:PHE:O	2.12	0.49
1:1:527:LYS:HG2	1:1:528:ASP:OD1	2.13	0.49
1:5:438:ILE:HG22	1:5:439:ASP:H	1.77	0.49
1:5:443:TYR:OH	1:6:547:SER:OG	2.29	0.49
1:7:527:LYS:HG2	1:7:528:ASP:OD1	2.13	0.49
1:A:553:ASP:OD1	1:A:554:ILE:N	2.45	0.49
1:A:598:GLN:HG3	1:A:599:GLY:O	2.13	0.49
1:B:527:LYS:HG2	1:B:528:ASP:OD1	2.13	0.49
1:B:598:GLN:HG3	1:B:599:GLY:O	2.13	0.49
1:B:698:ILE:O	1:I:701:THR:OG1	2.21	0.49
1:E:541:ILE:HG22	1:E:542:PHE:O	2.12	0.49
1:G:610:ASP:OD1	1:G:611:VAL:N	2.43	0.49
1:H:541:ILE:HG22	1:H:542:PHE:O	2.12	0.49
1:I:438:ILE:HG22	1:I:439:ASP:H	1.77	0.49
1:N:256:LEU:HD12	1:N:256:LEU:O	2.12	0.49
1:N:306:PHE:HA	1:N:686:LEU:HA	1.95	0.49
1:Q:361:CYS:O	1:Q:362:LEU:HD12	2.12	0.49
1:S:598:GLN:HG3	1:S:599:GLY:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:452:SER:OG	1:T:456:THR:O	2.27	0.49
1:T:527:LYS:HG2	1:T:528:ASP:OD1	2.13	0.49
1:W:416:GLU:OE1	1:W:416:GLU:N	2.28	0.49
1:X:541:ILE:HG22	1:X:542:PHE:O	2.12	0.49
1:X:598:GLN:HG3	1:X:599:GLY:O	2.13	0.49
1:Y:598:GLN:HG3	1:Y:599:GLY:O	2.13	0.49
1:Z:391:SER:OG	1:Z:392:PHE:N	2.44	0.49
1:Z:695:ASN:HB2	1:Z:696:PRO:HD2	1.93	0.49
1:a:256:LEU:HD12	1:a:256:LEU:O	2.12	0.49
1:a:527:LYS:HG2	1:a:528:ASP:OD1	2.13	0.49
1:b:527:LYS:HG2	1:b:528:ASP:OD1	2.13	0.49
1:b:598:GLN:HG3	1:b:599:GLY:O	2.13	0.49
1:e:557:VAL:O	1:e:558:MET:HB2	2.13	0.49
1:f:247:TRP:NE1	1:f:677:GLN:O	2.34	0.49
1:f:256:LEU:O	1:f:256:LEU:HD12	2.12	0.49
1:g:391:SER:OG	1:g:392:PHE:N	2.44	0.49
1:j:557:VAL:O	1:j:558:MET:HB2	2.13	0.49
1:j:598:GLN:HG3	1:j:599:GLY:O	2.13	0.49
1:k:553:ASP:OD1	1:k:554:ILE:N	2.45	0.49
1:m:541:ILE:HG22	1:m:542:PHE:O	2.12	0.49
1:m:695:ASN:HB2	1:m:696:PRO:HD2	1.93	0.49
1:o:695:ASN:HB2	1:o:696:PRO:HD2	1.93	0.49
1:r:598:GLN:HG3	1:r:599:GLY:O	2.13	0.49
1:s:695:ASN:HB2	1:s:696:PRO:HD2	1.93	0.49
1:t:527:LYS:HG2	1:t:528:ASP:OD1	2.13	0.49
1:u:431:ASP:OD1	1:u:432:ALA:N	2.45	0.49
1:u:610:ASP:OD1	1:u:611:VAL:N	2.43	0.49
1:v:308:PRO:HD3	1:v:637:PHE:HE2	1.77	0.49
1:x:598:GLN:HG3	1:x:599:GLY:O	2.13	0.49
1:z:256:LEU:O	1:z:256:LEU:HD12	2.12	0.49
1:1:443:TYR:HA	1:1:464:GLN:HA	1.93	0.49
1:1:609:ARG:O	1:1:729:ARG:NH2	2.44	0.49
1:3:609:ARG:O	1:3:729:ARG:NH2	2.44	0.49
1:4:541:ILE:HG22	1:4:542:PHE:O	2.12	0.49
1:5:553:ASP:CG	1:5:554:ILE:H	2.19	0.49
1:7:581:THR:N	1:7:591:ALA:O	2.37	0.49
1:A:695:ASN:HB2	1:A:696:PRO:HD2	1.93	0.49
1:C:361:CYS:O	1:C:362:LEU:HD12	2.12	0.49
1:C:557:VAL:O	1:C:558:MET:HB2	2.13	0.49
1:D:443:TYR:OH	1:N:547:SER:OG	2.29	0.49
1:D:553:ASP:OD1	1:D:554:ILE:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:527:LYS:HG2	1:F:528:ASP:OD1	2.13	0.49
1:G:557:VAL:O	1:G:558:MET:HB2	2.13	0.49
1:G:609:ARG:O	1:G:729:ARG:NH2	2.44	0.49
1:I:527:LYS:HG2	1:I:528:ASP:OD1	2.13	0.49
1:I:557:VAL:O	1:I:558:MET:HB2	2.13	0.49
1:J:598:GLN:HG3	1:J:599:GLY:O	2.13	0.49
1:K:553:ASP:OD1	1:K:554:ILE:N	2.45	0.49
1:L:582:ASN:OD1	1:L:591:ALA:N	2.35	0.49
1:M:259:GLN:HB3	1:c:715:ASP:O	2.11	0.49
1:M:598:GLN:HG3	1:M:599:GLY:O	2.13	0.49
1:N:527:LYS:HG2	1:N:528:ASP:OD1	2.13	0.49
1:Q:308:PRO:HD3	1:Q:637:PHE:HE2	1.77	0.49
1:R:527:LYS:HG2	1:R:528:ASP:OD1	2.13	0.49
1:R:610:ASP:OD1	1:R:611:VAL:N	2.43	0.49
1:S:443:TYR:OH	1:U:547:SER:OG	2.29	0.49
1:S:610:ASP:OD1	1:S:611:VAL:N	2.43	0.49
1:U:256:LEU:HD12	1:U:256:LEU:O	2.12	0.49
1:U:658:SER:O	1:U:659:THR:OG1	2.27	0.49
1:W:557:VAL:O	1:W:558:MET:HB2	2.13	0.49
1:W:598:GLN:HG3	1:W:599:GLY:O	2.13	0.49
1:X:715:ASP:O	1:Y:259:GLN:HB3	2.11	0.49
1:Y:256:LEU:HD12	1:Y:256:LEU:O	2.12	0.49
1:Y:553:ASP:OD1	1:Y:554:ILE:N	2.45	0.49
1:Z:541:ILE:HG22	1:Z:542:PHE:O	2.12	0.49
1:c:429:SER:OG	1:c:431:ASP:OD1	2.18	0.49
1:c:527:LYS:HG2	1:c:528:ASP:OD1	2.13	0.49
1:c:557:VAL:O	1:c:558:MET:HB2	2.13	0.49
1:e:715:ASP:O	1:h:259:GLN:HB3	2.12	0.49
1:f:557:VAL:O	1:f:558:MET:HB2	2.13	0.49
1:h:553:ASP:OD1	1:h:554:ILE:N	2.46	0.49
1:l:256:LEU:HD12	1:l:256:LEU:O	2.12	0.49
1:l:438:ILE:HG22	1:l:439:ASP:H	1.77	0.49
1:n:541:ILE:HG22	1:n:542:PHE:O	2.12	0.49
1:o:361:CYS:O	1:o:362:LEU:HD12	2.12	0.49
1:p:557:VAL:O	1:p:558:MET:HB2	2.13	0.49
1:p:610:ASP:OD1	1:p:611:VAL:N	2.43	0.49
1:q:598:GLN:HG3	1:q:599:GLY:O	2.13	0.49
1:r:553:ASP:OD1	1:r:554:ILE:N	2.45	0.49
1:s:541:ILE:HG22	1:s:542:PHE:O	2.12	0.49
1:u:527:LYS:HG2	1:u:528:ASP:OD1	2.13	0.49
1:u:598:GLN:HG3	1:u:599:GLY:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:658:SER:O	1:v:659:THR:OG1	2.27	0.49
1:x:527:LYS:HG2	1:x:528:ASP:OD1	2.13	0.49
1:1:561:ASP:OD1	1:1:562:GLU:N	2.44	0.49
1:2:256:LEU:HD12	1:2:256:LEU:O	2.12	0.49
1:4:695:ASN:HB2	1:4:696:PRO:HD2	1.93	0.49
1:5:527:LYS:HG2	1:5:528:ASP:OD1	2.13	0.49
1:6:361:CYS:O	1:6:362:LEU:HD12	2.12	0.49
1:7:557:VAL:O	1:7:558:MET:HB2	2.13	0.49
1:C:582:ASN:OD1	1:C:591:ALA:N	2.35	0.49
1:E:452:SER:OG	1:E:456:THR:O	2.27	0.49
1:E:557:VAL:O	1:E:558:MET:HB2	2.13	0.49
1:E:582:ASN:OD1	1:E:591:ALA:N	2.35	0.49
1:F:553:ASP:OD1	1:F:554:ILE:N	2.45	0.49
1:G:306:PHE:HA	1:G:686:LEU:HA	1.95	0.49
1:H:438:ILE:HG22	1:H:439:ASP:H	1.77	0.49
1:I:308:PRO:HD3	1:I:637:PHE:HE2	1.77	0.49
1:J:361:CYS:O	1:J:362:LEU:HD12	2.12	0.49
1:L:256:LEU:O	1:L:256:LEU:HD12	2.12	0.49
1:L:553:ASP:CG	1:L:554:ILE:H	2.19	0.49
1:L:557:VAL:O	1:L:558:MET:HB2	2.13	0.49
1:L:609:ARG:O	1:L:729:ARG:NH2	2.45	0.49
1:M:431:ASP:OD1	1:M:432:ALA:N	2.45	0.49
1:O:609:ARG:O	1:O:729:ARG:NH2	2.45	0.49
1:O:610:ASP:OD1	1:O:611:VAL:N	2.43	0.49
1:P:527:LYS:HG2	1:P:528:ASP:OD1	2.13	0.49
1:P:545:GLN:OE1	1:P:545:GLN:N	2.34	0.49
1:Q:527:LYS:HG2	1:Q:528:ASP:OD1	2.13	0.49
1:T:609:ARG:O	1:T:729:ARG:NH2	2.44	0.49
1:X:306:PHE:HA	1:X:686:LEU:HA	1.95	0.49
1:Z:256:LEU:HD12	1:Z:256:LEU:O	2.12	0.49
1:Z:438:ILE:HG22	1:Z:439:ASP:H	1.77	0.49
1:a:306:PHE:HA	1:a:686:LEU:HA	1.95	0.49
1:c:308:PRO:HD3	1:c:637:PHE:HE2	1.77	0.49
1:c:438:ILE:HG22	1:c:439:ASP:H	1.77	0.49
1:c:598:GLN:HG3	1:c:599:GLY:O	2.13	0.49
1:c:621:ILE:HG22	1:p:477:TRP:CH2	2.48	0.49
1:c:658:SER:O	1:c:659:THR:OG1	2.27	0.49
1:d:256:LEU:HD12	1:d:256:LEU:O	2.12	0.49
1:d:361:CYS:O	1:d:362:LEU:HD12	2.12	0.49
1:e:256:LEU:HD12	1:e:256:LEU:O	2.12	0.49
1:e:527:LYS:HG2	1:e:528:ASP:OD1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:553:ASP:OD1	1:e:554:ILE:N	2.45	0.49
1:f:610:ASP:OD1	1:f:611:VAL:N	2.43	0.49
1:g:326:ASN:O	1:g:329:THR:OG1	2.19	0.49
1:j:247:TRP:NE1	1:j:677:GLN:O	2.34	0.49
1:j:256:LEU:O	1:j:256:LEU:HD12	2.12	0.49
1:l:347:GLU:OE1	1:l:347:GLU:N	2.41	0.49
1:m:361:CYS:O	1:m:362:LEU:HD12	2.12	0.49
1:m:438:ILE:HG22	1:m:439:ASP:H	1.77	0.49
1:n:306:PHE:HA	1:n:686:LEU:HA	1.95	0.49
1:o:598:GLN:HG3	1:o:599:GLY:O	2.13	0.49
1:p:347:GLU:OE1	1:p:347:GLU:N	2.41	0.49
1:p:609:ARG:O	1:p:729:ARG:NH2	2.44	0.49
1:q:557:VAL:O	1:q:558:MET:HB2	2.13	0.49
1:q:695:ASN:HB2	1:q:696:PRO:HD2	1.93	0.49
1:r:347:GLU:OE1	1:r:347:GLU:N	2.41	0.49
1:r:557:VAL:O	1:r:558:MET:HB2	2.13	0.49
1:s:438:ILE:HG22	1:s:439:ASP:H	1.77	0.49
1:x:306:PHE:HA	1:x:686:LEU:HA	1.95	0.49
1:z:438:ILE:HG22	1:z:439:ASP:H	1.77	0.49
1:2:553:ASP:OD1	1:2:554:ILE:N	2.45	0.49
1:4:306:PHE:HA	1:4:686:LEU:HA	1.95	0.49
1:4:308:PRO:HD3	1:4:637:PHE:HE2	1.77	0.49
1:5:308:PRO:HD3	1:5:637:PHE:HE2	1.77	0.49
1:6:416:GLU:OE1	1:6:416:GLU:N	2.28	0.49
1:6:527:LYS:HG2	1:6:528:ASP:OD1	2.13	0.49
1:7:308:PRO:HD3	1:7:637:PHE:HE2	1.77	0.49
1:8:527:LYS:HG2	1:8:528:ASP:OD1	2.13	0.49
1:8:545:GLN:OE1	1:8:545:GLN:N	2.34	0.49
1:A:541:ILE:HG22	1:A:542:PHE:O	2.12	0.49
1:B:553:ASP:OD1	1:B:554:ILE:N	2.45	0.49
1:C:256:LEU:O	1:C:256:LEU:HD12	2.12	0.49
1:C:306:PHE:HA	1:C:686:LEU:HA	1.95	0.49
1:C:553:ASP:CG	1:C:554:ILE:H	2.19	0.49
1:C:609:ARG:O	1:C:729:ARG:NH2	2.45	0.49
1:D:431:ASP:OD1	1:D:432:ALA:N	2.45	0.49
1:G:527:LYS:HG2	1:G:528:ASP:OD1	2.13	0.49
1:G:598:GLN:HG3	1:G:599:GLY:O	2.13	0.49
1:I:361:CYS:O	1:I:362:LEU:HD12	2.12	0.49
1:I:598:GLN:HG3	1:I:599:GLY:O	2.13	0.49
1:I:658:SER:O	1:I:659:THR:OG1	2.27	0.49
1:J:431:ASP:OD1	1:J:432:ALA:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:431:ASP:OD1	1:K:432:ALA:N	2.45	0.49
1:K:443:TYR:OH	1:a:547:SER:OG	2.29	0.49
1:L:306:PHE:HA	1:L:686:LEU:HA	1.95	0.49
1:L:361:CYS:O	1:L:362:LEU:HD12	2.12	0.49
1:M:361:CYS:O	1:M:362:LEU:HD12	2.12	0.49
1:N:598:GLN:HG3	1:N:599:GLY:O	2.13	0.49
1:R:308:PRO:HD3	1:R:637:PHE:HE2	1.77	0.49
1:R:391:SER:OG	1:R:392:PHE:N	2.44	0.49
1:S:308:PRO:HD3	1:S:637:PHE:HE2	1.77	0.49
1:S:527:LYS:HG2	1:S:528:ASP:OD1	2.13	0.49
1:T:598:GLN:HG3	1:T:599:GLY:O	2.13	0.49
1:U:438:ILE:HG22	1:U:439:ASP:H	1.77	0.49
1:Y:557:VAL:O	1:Y:558:MET:HB2	2.13	0.49
1:a:553:ASP:CG	1:a:554:ILE:H	2.19	0.49
1:d:553:ASP:OD1	1:d:554:ILE:N	2.45	0.49
1:g:256:LEU:O	1:g:256:LEU:HD12	2.12	0.49
1:g:598:GLN:HG3	1:g:599:GLY:O	2.13	0.49
1:h:431:ASP:OD1	1:h:432:ALA:N	2.45	0.49
1:j:610:ASP:OD1	1:j:611:VAL:N	2.43	0.49
1:k:431:ASP:OD1	1:k:432:ALA:N	2.45	0.49
1:m:256:LEU:HD12	1:m:256:LEU:O	2.12	0.49
1:n:262:SER:N	1:n:272:TYR:O	2.46	0.49
1:o:541:ILE:HG22	1:o:542:PHE:O	2.12	0.49
1:p:306:PHE:HA	1:p:686:LEU:HA	1.95	0.49
1:p:527:LYS:HG2	1:p:528:ASP:OD1	2.13	0.49
1:p:598:GLN:HG3	1:p:599:GLY:O	2.13	0.49
1:t:610:ASP:OD1	1:t:611:VAL:N	2.43	0.49
1:w:256:LEU:HD12	1:w:256:LEU:O	2.12	0.49
1:w:431:ASP:OD1	1:w:432:ALA:N	2.45	0.49
1:w:527:LYS:HG2	1:w:528:ASP:OD1	2.13	0.49
1:w:553:ASP:OD1	1:w:554:ILE:N	2.46	0.49
1:y:553:ASP:OD1	1:y:554:ILE:N	2.45	0.49
1:3:262:SER:N	1:3:272:TYR:O	2.46	0.49
1:4:262:SER:N	1:4:272:TYR:O	2.46	0.49
1:6:553:ASP:OD1	1:6:554:ILE:N	2.45	0.49
1:7:452:SER:OG	1:7:456:THR:O	2.27	0.49
1:A:557:VAL:O	1:A:558:MET:HB2	2.13	0.49
1:F:361:CYS:O	1:F:362:LEU:HD12	2.12	0.49
1:F:610:ASP:OD1	1:F:611:VAL:N	2.43	0.49
1:H:245:ARG:CZ	1:H:366:PRO:HA	2.43	0.49
1:I:715:ASP:O	1:J:259:GLN:HB3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:582:ASN:OD1	1:J:591:ALA:N	2.35	0.49
1:M:416:GLU:OE1	1:M:416:GLU:N	2.28	0.49
1:N:245:ARG:CZ	1:N:366:PRO:HA	2.43	0.49
1:O:262:SER:N	1:O:272:TYR:O	2.46	0.49
1:S:262:SER:N	1:S:272:TYR:O	2.46	0.49
1:T:438:ILE:HG22	1:T:439:ASP:H	1.77	0.49
1:U:553:ASP:OD1	1:U:554:ILE:N	2.45	0.49
1:U:557:VAL:O	1:U:558:MET:HB2	2.13	0.49
1:V:553:ASP:OD1	1:V:554:ILE:N	2.45	0.49
1:V:557:VAL:O	1:V:558:MET:HB2	2.13	0.49
1:W:695:ASN:HB2	1:W:696:PRO:HD2	1.93	0.49
1:X:557:VAL:O	1:X:558:MET:HB2	2.13	0.49
1:Y:347:GLU:OE1	1:Y:347:GLU:N	2.41	0.49
1:Z:557:VAL:O	1:Z:558:MET:HB2	2.13	0.49
1:a:245:ARG:CZ	1:a:366:PRO:HA	2.43	0.49
1:a:557:VAL:O	1:a:558:MET:HB2	2.13	0.49
1:a:598:GLN:HG3	1:a:599:GLY:O	2.13	0.49
1:b:553:ASP:OD1	1:b:554:ILE:N	2.45	0.49
1:c:361:CYS:O	1:c:362:LEU:HD12	2.12	0.49
1:g:308:PRO:HD3	1:g:637:PHE:HE2	1.77	0.49
1:g:527:LYS:HG2	1:g:528:ASP:OD1	2.13	0.49
1:h:245:ARG:CZ	1:h:366:PRO:HA	2.43	0.49
1:i:308:PRO:HD3	1:i:637:PHE:HE2	1.77	0.49
1:i:598:GLN:HG3	1:i:599:GLY:O	2.13	0.49
1:l:598:GLN:HG3	1:l:599:GLY:O	2.13	0.49
1:m:431:ASP:OD1	1:m:432:ALA:N	2.45	0.49
1:m:557:VAL:O	1:m:558:MET:HB2	2.13	0.49
1:n:308:PRO:HD3	1:n:637:PHE:HE2	1.77	0.49
1:n:598:GLN:HG3	1:n:599:GLY:O	2.13	0.49
1:r:306:PHE:HA	1:r:686:LEU:HA	1.95	0.49
1:t:308:PRO:HD3	1:t:637:PHE:HE2	1.77	0.49
1:v:438:ILE:HG22	1:v:439:ASP:H	1.77	0.49
1:y:557:VAL:O	1:y:558:MET:HB2	2.13	0.49
1:z:598:GLN:HG3	1:z:599:GLY:O	2.13	0.49
1:1:262:SER:N	1:1:272:TYR:O	2.46	0.49
1:1:598:GLN:HG3	1:1:599:GLY:O	2.13	0.49
1:2:326:ASN:O	1:2:329:THR:OG1	2.19	0.49
1:2:361:CYS:O	1:2:362:LEU:HD12	2.12	0.49
1:3:610:ASP:OD1	1:3:611:VAL:N	2.43	0.49
1:4:438:ILE:HG22	1:4:439:ASP:H	1.77	0.49
1:7:361:CYS:O	1:7:362:LEU:HD12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:658:SER:O	1:A:659:THR:OG1	2.27	0.49
1:B:306:PHE:HA	1:B:686:LEU:HA	1.95	0.49
1:D:262:SER:N	1:D:272:TYR:O	2.46	0.49
1:E:497:ASN:N	1:E:498:SER:HB2	2.28	0.49
1:E:581:THR:N	1:E:591:ALA:O	2.37	0.49
1:E:598:GLN:HG3	1:E:599:GLY:O	2.13	0.49
1:G:497:ASN:N	1:G:498:SER:HB2	2.28	0.49
1:J:695:ASN:HB2	1:J:696:PRO:HD2	1.93	0.49
1:L:711:ASP:O	1:L:713:THR:N	2.46	0.49
1:N:262:SER:N	1:N:272:TYR:O	2.46	0.49
1:N:557:VAL:O	1:N:558:MET:HB2	2.13	0.49
1:N:695:ASN:HB2	1:N:696:PRO:HD2	1.93	0.49
1:O:256:LEU:O	1:O:256:LEU:HD12	2.12	0.49
1:O:308:PRO:HD3	1:O:637:PHE:HE2	1.77	0.49
1:Q:262:SER:N	1:Q:272:TYR:O	2.46	0.49
1:Q:497:ASN:N	1:Q:498:SER:HB2	2.28	0.49
1:R:262:SER:N	1:R:272:TYR:O	2.46	0.49
1:S:306:PHE:HA	1:S:686:LEU:HA	1.95	0.49
1:T:247:TRP:NE1	1:T:677:GLN:O	2.34	0.49
1:T:262:SER:N	1:T:272:TYR:O	2.46	0.49
1:T:545:GLN:OE1	1:T:545:GLN:N	2.34	0.49
1:U:598:GLN:HG3	1:U:599:GLY:O	2.13	0.49
1:X:553:ASP:OD1	1:X:554:ILE:N	2.46	0.49
1:Y:306:PHE:HA	1:Y:686:LEU:HA	1.95	0.49
1:Y:545:GLN:OE1	1:Y:545:GLN:N	2.34	0.49
1:Z:361:CYS:O	1:Z:362:LEU:HD12	2.12	0.49
1:Z:431:ASP:OD1	1:Z:432:ALA:N	2.45	0.49
1:Z:598:GLN:HG3	1:Z:599:GLY:O	2.13	0.49
1:a:262:SER:N	1:a:272:TYR:O	2.46	0.49
1:c:288:HIS:HE2	1:c:614:GLN:HB3	1.78	0.49
1:e:431:ASP:OD1	1:e:432:ALA:N	2.45	0.49
1:f:715:ASP:OD1	1:f:716:THR:N	2.39	0.49
1:h:497:ASN:N	1:h:498:SER:HB2	2.28	0.49
1:i:527:LYS:HG2	1:i:528:ASP:OD1	2.13	0.49
1:j:715:ASP:OD1	1:j:716:THR:N	2.39	0.49
1:k:245:ARG:CZ	1:k:366:PRO:HA	2.43	0.49
1:k:306:PHE:HA	1:k:686:LEU:HA	1.95	0.49
1:k:497:ASN:N	1:k:498:SER:HB2	2.28	0.49
1:l:684:TRP:N	1:l:684:TRP:CD1	2.81	0.49
1:m:343:PHE:HD1	1:m:344:THR:H	1.61	0.49
1:m:598:GLN:HG3	1:m:599:GLY:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:695:ASN:HB2	1:n:696:PRO:HD2	1.93	0.49
1:n:711:ASP:O	1:n:713:THR:N	2.46	0.49
1:o:306:PHE:HA	1:o:686:LEU:HA	1.95	0.49
1:o:557:VAL:O	1:o:558:MET:HB2	2.13	0.49
1:p:497:ASN:N	1:p:498:SER:HB2	2.28	0.49
1:r:326:ASN:O	1:r:329:THR:OG1	2.19	0.49
1:r:545:GLN:OE1	1:r:545:GLN:N	2.34	0.49
1:r:684:TRP:N	1:r:684:TRP:CD1	2.81	0.49
1:s:245:ARG:CZ	1:s:366:PRO:HA	2.43	0.49
1:u:262:SER:N	1:u:272:TYR:O	2.46	0.49
1:u:306:PHE:HA	1:u:686:LEU:HA	1.95	0.49
1:x:553:ASP:OD1	1:x:554:ILE:N	2.45	0.49
1:x:557:VAL:O	1:x:558:MET:HB2	2.13	0.49
1:z:497:ASN:N	1:z:498:SER:HB2	2.28	0.49
1:3:259:GLN:NE2	1:3:273:PHE:HE1	2.11	0.49
1:3:541:ILE:HG22	1:3:542:PHE:O	2.12	0.49
1:4:598:GLN:HG3	1:4:599:GLY:O	2.13	0.49
1:5:497:ASN:N	1:5:498:SER:HB2	2.28	0.49
1:6:262:SER:N	1:6:272:TYR:O	2.46	0.49
1:8:245:ARG:CZ	1:8:366:PRO:HA	2.43	0.49
1:A:554:ILE:HG22	1:I:462:PHE:HE2	1.78	0.49
1:B:497:ASN:N	1:B:498:SER:HB2	2.28	0.49
1:C:255:HIS:ND1	1:C:652:PRO:HG3	2.28	0.49
1:C:343:PHE:HD1	1:C:344:THR:H	1.61	0.49
1:C:711:ASP:O	1:C:713:THR:N	2.46	0.49
1:D:541:ILE:HG22	1:D:542:PHE:O	2.12	0.49
1:D:711:ASP:O	1:D:713:THR:N	2.46	0.49
1:F:262:SER:N	1:F:272:TYR:O	2.46	0.49
1:F:431:ASP:OD1	1:F:432:ALA:N	2.45	0.49
1:H:482:CYS:HA	1:H:523:MET:HE1	1.95	0.49
1:H:684:TRP:N	1:H:684:TRP:CD1	2.81	0.49
1:I:255:HIS:ND1	1:I:652:PRO:HG3	2.28	0.49
1:I:288:HIS:HE2	1:I:614:GLN:HB3	1.78	0.49
1:J:416:GLU:OE1	1:J:416:GLU:N	2.28	0.49
1:J:497:ASN:N	1:J:498:SER:HB2	2.28	0.49
1:K:482:CYS:HA	1:K:523:MET:HE1	1.95	0.49
1:K:711:ASP:O	1:K:713:THR:N	2.46	0.49
1:L:245:ARG:CZ	1:L:366:PRO:HA	2.43	0.49
1:M:497:ASN:N	1:M:498:SER:HB2	2.28	0.49
1:O:259:GLN:NE2	1:O:273:PHE:HE1	2.11	0.49
1:O:288:HIS:HE2	1:O:614:GLN:HB3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:541:ILE:HG22	1:O:542:PHE:O	2.12	0.49
1:P:245:ARG:CZ	1:P:366:PRO:HA	2.43	0.49
1:R:553:ASP:OD1	1:R:554:ILE:N	2.46	0.49
1:T:684:TRP:N	1:T:684:TRP:CD1	2.81	0.49
1:T:711:ASP:O	1:T:713:THR:N	2.46	0.49
1:U:245:ARG:CZ	1:U:366:PRO:HA	2.43	0.49
1:U:255:HIS:ND1	1:U:652:PRO:HG3	2.28	0.49
1:V:306:PHE:HA	1:V:686:LEU:HA	1.95	0.49
1:X:245:ARG:CZ	1:X:366:PRO:HA	2.43	0.49
1:X:497:ASN:N	1:X:498:SER:HB2	2.28	0.49
1:Y:684:TRP:N	1:Y:684:TRP:CD1	2.81	0.49
1:Z:497:ASN:N	1:Z:498:SER:HB2	2.28	0.49
1:b:306:PHE:HA	1:b:686:LEU:HA	1.95	0.49
1:b:497:ASN:N	1:b:498:SER:HB2	2.28	0.49
1:c:306:PHE:HA	1:c:686:LEU:HA	1.95	0.49
1:d:527:LYS:HG2	1:d:528:ASP:OD1	2.13	0.49
1:e:343:PHE:HD1	1:e:344:THR:H	1.61	0.49
1:f:245:ARG:CZ	1:f:366:PRO:HA	2.43	0.49
1:f:259:GLN:NE2	1:f:273:PHE:HE1	2.11	0.49
1:h:306:PHE:HA	1:h:686:LEU:HA	1.95	0.49
1:i:255:HIS:ND1	1:i:652:PRO:HG3	2.28	0.49
1:i:256:LEU:HD12	1:i:256:LEU:O	2.12	0.49
1:i:610:ASP:OD1	1:i:611:VAL:N	2.43	0.49
1:j:259:GLN:NE2	1:j:273:PHE:HE1	2.11	0.49
1:j:343:PHE:HD1	1:j:344:THR:H	1.61	0.49
1:j:684:TRP:N	1:j:684:TRP:CD1	2.81	0.49
1:l:391:SER:OG	1:l:392:PHE:N	2.44	0.49
1:l:497:ASN:N	1:l:498:SER:HB2	2.28	0.49
1:l:582:ASN:OD1	1:l:591:ALA:N	2.35	0.49
1:m:497:ASN:N	1:m:498:SER:HB2	2.28	0.49
1:m:711:ASP:O	1:m:713:THR:N	2.46	0.49
1:n:438:ILE:HG22	1:n:439:ASP:H	1.77	0.49
1:q:256:LEU:HD12	1:q:256:LEU:O	2.12	0.49
1:q:497:ASN:N	1:q:498:SER:HB2	2.28	0.49
1:r:711:ASP:O	1:r:713:THR:N	2.46	0.49
1:s:482:CYS:HA	1:s:523:MET:HE1	1.95	0.49
1:t:391:SER:OG	1:t:392:PHE:N	2.44	0.49
1:u:288:HIS:HE2	1:u:614:GLN:HB3	1.78	0.49
1:u:308:PRO:HD3	1:u:637:PHE:HE2	1.77	0.49
1:v:255:HIS:ND1	1:v:652:PRO:HG3	2.28	0.49
1:v:553:ASP:OD1	1:v:554:ILE:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:557:VAL:O	1:v:558:MET:HB2	2.13	0.49
1:w:343:PHE:HD1	1:w:344:THR:H	1.61	0.49
1:x:245:ARG:CZ	1:x:366:PRO:HA	2.43	0.49
1:z:326:ASN:O	1:z:329:THR:OG1	2.19	0.49
1:z:347:GLU:OE1	1:z:347:GLU:N	2.41	0.49
1:z:431:ASP:OD1	1:z:432:ALA:N	2.45	0.49
1:z:684:TRP:N	1:z:684:TRP:CD1	2.81	0.49
1:z:711:ASP:O	1:z:713:THR:N	2.46	0.49
1:1:343:PHE:HD1	1:1:344:THR:H	1.61	0.49
1:1:711:ASP:O	1:1:713:THR:N	2.46	0.49
1:3:256:LEU:HD12	1:3:256:LEU:O	2.12	0.49
1:4:557:VAL:O	1:4:558:MET:HB2	2.13	0.49
1:4:711:ASP:O	1:4:713:THR:N	2.46	0.49
1:5:262:SER:N	1:5:272:TYR:O	2.46	0.49
1:6:255:HIS:ND1	1:6:652:PRO:HG3	2.28	0.49
1:6:431:ASP:OD1	1:6:432:ALA:N	2.45	0.49
1:6:610:ASP:OD1	1:6:611:VAL:N	2.43	0.49
1:7:497:ASN:N	1:7:498:SER:HB2	2.28	0.49
1:7:598:GLN:HG3	1:7:599:GLY:O	2.13	0.49
1:8:288:HIS:HE2	1:8:614:GLN:HB3	1.78	0.49
1:8:431:ASP:OD1	1:8:432:ALA:N	2.45	0.49
1:A:306:PHE:HA	1:A:686:LEU:HA	1.95	0.48
1:A:431:ASP:OD1	1:A:432:ALA:N	2.45	0.48
1:A:482:CYS:HA	1:A:523:MET:HE1	1.96	0.48
1:A:711:ASP:O	1:A:713:THR:N	2.46	0.48
1:B:256:LEU:HD12	1:B:256:LEU:O	2.12	0.48
1:B:443:TYR:OH	1:J:547:SER:OG	2.29	0.48
1:B:557:VAL:O	1:B:558:MET:HB2	2.13	0.48
1:C:245:ARG:CZ	1:C:366:PRO:HA	2.43	0.48
1:C:381:ASN:OD1	1:C:382:ASN:N	2.46	0.48
1:E:545:GLN:OE1	1:E:545:GLN:N	2.34	0.48
1:H:557:VAL:O	1:H:558:MET:HB2	2.13	0.48
1:I:429:SER:OG	1:I:431:ASP:OD1	2.18	0.48
1:J:541:ILE:HG22	1:J:542:PHE:O	2.12	0.48
1:J:711:ASP:O	1:J:713:THR:N	2.46	0.48
1:K:262:SER:N	1:K:272:TYR:O	2.46	0.48
1:L:255:HIS:ND1	1:L:652:PRO:HG3	2.28	0.48
1:L:343:PHE:HD1	1:L:344:THR:H	1.61	0.48
1:L:381:ASN:OD1	1:L:382:ASN:N	2.46	0.48
1:L:497:ASN:N	1:L:498:SER:HB2	2.28	0.48
1:M:541:ILE:HG22	1:M:542:PHE:O	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:288:HIS:HE2	1:N:614:GLN:HB3	1.78	0.48
1:O:497:ASN:N	1:O:498:SER:HB2	2.28	0.48
1:O:711:ASP:O	1:O:713:THR:N	2.46	0.48
1:P:259:GLN:NE2	1:P:273:PHE:HE1	2.11	0.48
1:P:288:HIS:HE2	1:P:614:GLN:HB3	1.78	0.48
1:P:308:PRO:HD3	1:P:637:PHE:HE2	1.77	0.48
1:P:347:GLU:OE1	1:P:347:GLU:N	2.41	0.48
1:P:431:ASP:OD1	1:P:432:ALA:N	2.45	0.48
1:P:541:ILE:HG22	1:P:542:PHE:O	2.12	0.48
1:P:711:ASP:O	1:P:713:THR:N	2.46	0.48
1:R:684:TRP:N	1:R:684:TRP:CD1	2.81	0.48
1:S:288:HIS:HE2	1:S:614:GLN:HB3	1.78	0.48
1:T:259:GLN:NE2	1:T:273:PHE:HE1	2.11	0.48
1:T:343:PHE:HD1	1:T:344:THR:H	1.61	0.48
1:U:684:TRP:N	1:U:684:TRP:CD1	2.81	0.48
1:U:711:ASP:O	1:U:713:THR:N	2.46	0.48
1:V:259:GLN:NE2	1:V:273:PHE:HE1	2.11	0.48
1:V:527:LYS:HG2	1:V:528:ASP:OD1	2.13	0.48
1:W:256:LEU:O	1:W:256:LEU:HD12	2.12	0.48
1:W:497:ASN:N	1:W:498:SER:HB2	2.28	0.48
1:W:527:LYS:HG2	1:W:528:ASP:OD1	2.13	0.48
1:W:541:ILE:HG22	1:W:542:PHE:O	2.12	0.48
1:Y:247:TRP:NE1	1:Y:677:GLN:O	2.34	0.48
1:Y:262:SER:N	1:Y:272:TYR:O	2.46	0.48
1:Y:711:ASP:O	1:Y:713:THR:N	2.46	0.48
1:Z:343:PHE:HD1	1:Z:344:THR:H	1.61	0.48
1:Z:711:ASP:O	1:Z:713:THR:N	2.46	0.48
1:a:695:ASN:HB2	1:a:696:PRO:HD2	1.93	0.48
1:b:255:HIS:ND1	1:b:652:PRO:HG3	2.28	0.48
1:c:431:ASP:OD1	1:c:432:ALA:N	2.45	0.48
1:d:262:SER:N	1:d:272:TYR:O	2.46	0.48
1:d:711:ASP:O	1:d:713:THR:N	2.46	0.48
1:e:482:CYS:HA	1:e:523:MET:HE1	1.95	0.48
1:e:541:ILE:HG22	1:e:542:PHE:O	2.12	0.48
1:e:582:ASN:OD1	1:e:591:ALA:N	2.35	0.48
1:f:684:TRP:CD1	1:f:684:TRP:N	2.81	0.48
1:g:255:HIS:ND1	1:g:652:PRO:HG3	2.28	0.48
1:g:610:ASP:OD1	1:g:611:VAL:N	2.43	0.48
1:h:557:VAL:O	1:h:558:MET:HB2	2.13	0.48
1:i:431:ASP:OD1	1:i:432:ALA:N	2.45	0.48
1:j:245:ARG:CZ	1:j:366:PRO:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:308:PRO:HD3	1:l:637:PHE:HE2	1.77	0.48
1:l:431:ASP:OD1	1:l:432:ALA:N	2.45	0.48
1:l:711:ASP:O	1:l:713:THR:N	2.46	0.48
1:o:255:HIS:ND1	1:o:652:PRO:HG3	2.28	0.48
1:o:711:ASP:O	1:o:713:THR:N	2.46	0.48
1:q:711:ASP:O	1:q:713:THR:N	2.46	0.48
1:r:262:SER:N	1:r:272:TYR:O	2.46	0.48
1:s:684:TRP:N	1:s:684:TRP:CD1	2.81	0.48
1:t:256:LEU:HD12	1:t:256:LEU:O	2.12	0.48
1:t:553:ASP:OD1	1:t:554:ILE:N	2.46	0.48
1:t:684:TRP:N	1:t:684:TRP:CD1	2.81	0.48
1:v:598:GLN:HG3	1:v:599:GLY:O	2.13	0.48
1:v:711:ASP:O	1:v:713:THR:N	2.46	0.48
1:w:541:ILE:HG22	1:w:542:PHE:O	2.12	0.48
1:w:582:ASN:OD1	1:w:591:ALA:N	2.35	0.48
1:x:497:ASN:N	1:x:498:SER:HB2	2.28	0.48
1:y:259:GLN:NE2	1:y:273:PHE:HE1	2.11	0.48
1:y:527:LYS:HG2	1:y:528:ASP:OD1	2.13	0.48
1:z:582:ASN:OD1	1:z:591:ALA:N	2.35	0.48
1:1:438:ILE:HG22	1:1:439:ASP:H	1.77	0.48
1:1:497:ASN:N	1:1:498:SER:HB2	2.28	0.48
1:1:541:ILE:HG22	1:1:542:PHE:O	2.12	0.48
1:1:545:GLN:OE1	1:1:545:GLN:N	2.34	0.48
1:1:684:TRP:N	1:1:684:TRP:CD1	2.81	0.48
1:2:711:ASP:O	1:2:713:THR:N	2.46	0.48
1:3:497:ASN:N	1:3:498:SER:HB2	2.28	0.48
1:3:527:LYS:HG2	1:3:528:ASP:OD1	2.13	0.48
1:7:247:TRP:NE1	1:7:677:GLN:O	2.34	0.48
1:8:259:GLN:NE2	1:8:273:PHE:HE1	2.11	0.48
1:8:452:SER:OG	1:8:456:THR:O	2.27	0.48
1:8:557:VAL:O	1:8:558:MET:HB2	2.13	0.48
1:8:711:ASP:O	1:8:713:THR:N	2.46	0.48
1:A:255:HIS:ND1	1:A:652:PRO:HG3	2.28	0.48
1:B:255:HIS:ND1	1:B:652:PRO:HG3	2.28	0.48
1:D:347:GLU:OE1	1:D:347:GLU:N	2.41	0.48
1:D:482:CYS:HA	1:D:523:MET:HE1	1.96	0.48
1:E:361:CYS:O	1:E:362:LEU:HD12	2.12	0.48
1:F:255:HIS:ND1	1:F:652:PRO:HG3	2.28	0.48
1:G:381:ASN:OD1	1:G:382:ASN:N	2.47	0.48
1:H:381:ASN:OD1	1:H:382:ASN:N	2.47	0.48
1:I:431:ASP:OD1	1:I:432:ALA:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:259:GLN:NE2	1:J:273:PHE:HE1	2.11	0.48
1:J:452:SER:OG	1:J:456:THR:O	2.27	0.48
1:J:684:TRP:N	1:J:684:TRP:CD1	2.81	0.48
1:M:259:GLN:NE2	1:M:273:PHE:HE1	2.11	0.48
1:M:343:PHE:HD1	1:M:344:THR:H	1.61	0.48
1:M:684:TRP:N	1:M:684:TRP:CD1	2.81	0.48
1:M:695:ASN:HB2	1:M:696:PRO:HD2	1.93	0.48
1:N:255:HIS:ND1	1:N:652:PRO:HG3	2.28	0.48
1:O:557:VAL:HG23	1:O:559:ILE:HG13	1.96	0.48
1:P:262:SER:N	1:P:272:TYR:O	2.46	0.48
1:P:557:VAL:O	1:P:558:MET:HB2	2.13	0.48
1:Q:598:GLN:HG3	1:Q:599:GLY:O	2.13	0.48
1:R:256:LEU:HD12	1:R:256:LEU:O	2.12	0.48
1:R:557:VAL:HG23	1:R:559:ILE:HG13	1.96	0.48
1:S:553:ASP:OD1	1:S:554:ILE:N	2.45	0.48
1:T:541:ILE:HG22	1:T:542:PHE:O	2.12	0.48
1:U:527:LYS:HG2	1:U:528:ASP:OD1	2.13	0.48
1:W:711:ASP:O	1:W:713:THR:N	2.46	0.48
1:Y:255:HIS:ND1	1:Y:652:PRO:HG3	2.28	0.48
1:Y:326:ASN:O	1:Y:329:THR:OG1	2.19	0.48
1:Y:482:CYS:HA	1:Y:523:MET:HE1	1.95	0.48
1:Y:527:LYS:HG2	1:Y:528:ASP:OD1	2.13	0.48
1:Z:308:PRO:HD3	1:Z:637:PHE:HE2	1.77	0.48
1:a:684:TRP:N	1:a:684:TRP:CD1	2.81	0.48
1:b:256:LEU:O	1:b:256:LEU:HD12	2.12	0.48
1:b:259:GLN:NE2	1:b:273:PHE:HE1	2.11	0.48
1:b:557:VAL:O	1:b:558:MET:HB2	2.13	0.48
1:c:245:ARG:CZ	1:c:366:PRO:HA	2.43	0.48
1:c:255:HIS:ND1	1:c:652:PRO:HG3	2.29	0.48
1:e:598:GLN:HG3	1:e:599:GLY:O	2.13	0.48
1:f:553:ASP:OD1	1:f:554:ILE:N	2.45	0.48
1:g:347:GLU:OE1	1:g:347:GLU:N	2.41	0.48
1:g:482:CYS:HA	1:g:523:MET:HE1	1.95	0.48
1:i:684:TRP:N	1:i:684:TRP:CD1	2.81	0.48
1:l:326:ASN:O	1:l:329:THR:OG1	2.19	0.48
1:n:391:SER:OG	1:n:392:PHE:N	2.44	0.48
1:n:557:VAL:O	1:n:558:MET:HB2	2.13	0.48
1:o:259:GLN:NE2	1:o:273:PHE:HE1	2.11	0.48
1:o:431:ASP:OD1	1:o:432:ALA:N	2.45	0.48
1:o:482:CYS:HA	1:o:523:MET:HE1	1.96	0.48
1:o:658:SER:O	1:o:659:THR:OG1	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:541:ILE:HG22	1:q:542:PHE:O	2.12	0.48
1:q:625:ASP:OD1	1:s:607:GLN:NE2	2.46	0.48
1:r:482:CYS:HA	1:r:523:MET:HE1	1.95	0.48
1:s:497:ASN:N	1:s:498:SER:HB2	2.28	0.48
1:s:557:VAL:O	1:s:558:MET:HB2	2.13	0.48
1:t:245:ARG:CZ	1:t:366:PRO:HA	2.43	0.48
1:t:557:VAL:HG23	1:t:559:ILE:HG13	1.95	0.48
1:t:598:GLN:HG3	1:t:599:GLY:O	2.13	0.48
1:u:553:ASP:OD1	1:u:554:ILE:N	2.45	0.48
1:v:245:ARG:CZ	1:v:366:PRO:HA	2.43	0.48
1:v:259:GLN:NE2	1:v:273:PHE:HE1	2.11	0.48
1:v:684:TRP:N	1:v:684:TRP:CD1	2.81	0.48
1:w:482:CYS:HA	1:w:523:MET:HE1	1.96	0.48
1:w:598:GLN:HG3	1:w:599:GLY:O	2.13	0.48
1:y:306:PHE:HA	1:y:686:LEU:HA	1.95	0.48
1:y:598:GLN:HG3	1:y:599:GLY:O	2.13	0.48
1:1:259:GLN:NE2	1:1:273:PHE:HE1	2.11	0.48
1:2:262:SER:N	1:2:272:TYR:O	2.46	0.48
1:2:527:LYS:HG2	1:2:528:ASP:OD1	2.13	0.48
1:2:684:TRP:N	1:2:684:TRP:CD1	2.81	0.48
1:3:288:HIS:HE2	1:3:614:GLN:HB3	1.78	0.48
1:3:308:PRO:HD3	1:3:637:PHE:HE2	1.77	0.48
1:6:347:GLU:OE1	1:6:347:GLU:N	2.41	0.48
1:8:262:SER:N	1:8:272:TYR:O	2.46	0.48
1:A:557:VAL:HG23	1:A:559:ILE:HG13	1.96	0.48
1:B:259:GLN:NE2	1:B:273:PHE:HE1	2.11	0.48
1:B:288:HIS:HE2	1:B:614:GLN:HB3	1.78	0.48
1:C:497:ASN:N	1:C:498:SER:HB2	2.28	0.48
1:C:581:THR:N	1:C:591:ALA:O	2.37	0.48
1:E:247:TRP:NE1	1:E:677:GLN:O	2.34	0.48
1:E:711:ASP:O	1:E:713:THR:N	2.46	0.48
1:F:347:GLU:OE1	1:F:347:GLU:N	2.41	0.48
1:H:259:GLN:NE2	1:H:273:PHE:HE1	2.11	0.48
1:H:497:ASN:N	1:H:498:SER:HB2	2.28	0.48
1:H:527:LYS:HG2	1:H:528:ASP:OD1	2.13	0.48
1:H:553:ASP:OD1	1:H:554:ILE:N	2.45	0.48
1:I:306:PHE:HA	1:I:686:LEU:HA	1.95	0.48
1:J:256:LEU:HD12	1:J:256:LEU:O	2.12	0.48
1:J:262:SER:N	1:J:272:TYR:O	2.46	0.48
1:J:306:PHE:HA	1:J:686:LEU:HA	1.95	0.48
1:J:343:PHE:HD1	1:J:344:THR:H	1.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:527:LYS:HG2	1:J:528:ASP:OD1	2.13	0.48
1:K:259:GLN:NE2	1:K:273:PHE:HE1	2.11	0.48
1:K:541:ILE:HG22	1:K:542:PHE:O	2.12	0.48
1:M:256:LEU:HD12	1:M:256:LEU:O	2.12	0.48
1:M:262:SER:N	1:M:272:TYR:O	2.46	0.48
1:M:306:PHE:HA	1:M:686:LEU:HA	1.95	0.48
1:M:527:LYS:HG2	1:M:528:ASP:OD1	2.13	0.48
1:M:711:ASP:O	1:M:713:THR:N	2.46	0.48
1:N:482:CYS:HA	1:N:523:MET:HE1	1.95	0.48
1:N:684:TRP:N	1:N:684:TRP:CD1	2.81	0.48
1:O:527:LYS:HG2	1:O:528:ASP:OD1	2.13	0.48
1:Q:255:HIS:ND1	1:Q:652:PRO:HG3	2.28	0.48
1:Q:431:ASP:OD1	1:Q:432:ALA:N	2.45	0.48
1:R:245:ARG:CZ	1:R:366:PRO:HA	2.43	0.48
1:R:288:HIS:HE2	1:R:614:GLN:HB3	1.78	0.48
1:R:598:GLN:HG3	1:R:599:GLY:O	2.13	0.48
1:S:391:SER:OG	1:S:392:PHE:N	2.44	0.48
1:T:497:ASN:N	1:T:498:SER:HB2	2.28	0.48
1:U:581:THR:N	1:U:591:ALA:O	2.37	0.48
1:V:598:GLN:HG3	1:V:599:GLY:O	2.13	0.48
1:V:684:TRP:CD1	1:V:684:TRP:N	2.81	0.48
1:W:306:PHE:HA	1:W:686:LEU:HA	1.95	0.48
1:W:482:CYS:HA	1:W:523:MET:HE1	1.95	0.48
1:X:452:SER:OG	1:X:456:THR:O	2.27	0.48
1:X:711:ASP:O	1:X:713:THR:N	2.46	0.48
1:Z:259:GLN:NE2	1:Z:273:PHE:HE1	2.11	0.48
1:a:255:HIS:ND1	1:a:652:PRO:HG3	2.28	0.48
1:d:684:TRP:N	1:d:684:TRP:CD1	2.81	0.48
1:d:701:THR:OG1	1:n:698:ILE:O	2.20	0.48
1:e:245:ARG:CZ	1:e:366:PRO:HA	2.43	0.48
1:f:391:SER:OG	1:f:392:PHE:N	2.44	0.48
1:g:431:ASP:OD1	1:g:432:ALA:N	2.45	0.48
1:g:684:TRP:N	1:g:684:TRP:CD1	2.81	0.48
1:h:259:GLN:NE2	1:h:273:PHE:HE1	2.11	0.48
1:h:268:ASN:HA	1:h:271:HIS:CD2	2.49	0.48
1:j:255:HIS:ND1	1:j:652:PRO:HG3	2.28	0.48
1:j:391:SER:OG	1:j:392:PHE:N	2.44	0.48
1:j:553:ASP:OD1	1:j:554:ILE:N	2.46	0.48
1:k:259:GLN:NE2	1:k:273:PHE:HE1	2.11	0.48
1:k:268:ASN:HA	1:k:271:HIS:CD2	2.49	0.48
1:l:259:GLN:NE2	1:l:273:PHE:HE1	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:259:GLN:NE2	1:m:273:PHE:HE1	2.11	0.48
1:o:343:PHE:HD1	1:o:344:THR:H	1.61	0.48
1:p:381:ASN:OD1	1:p:382:ASN:N	2.47	0.48
1:q:527:LYS:HG2	1:q:528:ASP:OD1	2.13	0.48
1:r:255:HIS:ND1	1:r:652:PRO:HG3	2.29	0.48
1:r:527:LYS:HG2	1:r:528:ASP:OD1	2.13	0.48
1:r:607:GLN:NE2	1:s:625:ASP:OD1	2.47	0.48
1:s:259:GLN:NE2	1:s:273:PHE:HE1	2.11	0.48
1:s:288:HIS:HE2	1:s:614:GLN:HB3	1.78	0.48
1:s:308:PRO:HD3	1:s:637:PHE:HE2	1.77	0.48
1:s:527:LYS:HG2	1:s:528:ASP:OD1	2.13	0.48
1:t:557:VAL:O	1:t:558:MET:HB2	2.13	0.48
1:u:391:SER:OG	1:u:392:PHE:N	2.44	0.48
1:v:527:LYS:HG2	1:v:528:ASP:OD1	2.13	0.48
1:w:245:ARG:CZ	1:w:366:PRO:HA	2.43	0.48
1:x:259:GLN:NE2	1:x:273:PHE:HE1	2.11	0.48
1:x:711:ASP:O	1:x:713:THR:N	2.46	0.48
1:y:684:TRP:CD1	1:y:684:TRP:N	2.81	0.48
1:z:262:SER:N	1:z:272:TYR:O	2.46	0.48
1:z:308:PRO:HD3	1:z:637:PHE:HE2	1.77	0.48
1:z:391:SER:OG	1:z:392:PHE:N	2.44	0.48
1:z:527:LYS:HG2	1:z:528:ASP:OD1	2.13	0.48
1:1:247:TRP:NE1	1:1:677:GLN:O	2.34	0.48
1:2:431:ASP:OD1	1:2:432:ALA:N	2.45	0.48
1:2:557:VAL:O	1:2:558:MET:HB2	2.13	0.48
1:3:306:PHE:HA	1:3:686:LEU:HA	1.95	0.48
1:3:684:TRP:N	1:3:684:TRP:CD1	2.81	0.48
1:3:711:ASP:O	1:3:713:THR:N	2.46	0.48
1:4:391:SER:OG	1:4:392:PHE:N	2.44	0.48
1:5:255:HIS:ND1	1:5:652:PRO:HG3	2.28	0.48
1:5:416:GLU:OE1	1:5:416:GLU:N	2.28	0.48
1:5:598:GLN:HG3	1:5:599:GLY:O	2.13	0.48
1:7:711:ASP:O	1:7:713:THR:N	2.46	0.48
1:8:347:GLU:OE1	1:8:347:GLU:N	2.41	0.48
1:8:497:ASN:N	1:8:498:SER:HB2	2.28	0.48
1:8:598:GLN:HG3	1:8:599:GLY:O	2.13	0.48
1:A:343:PHE:HD1	1:A:344:THR:H	1.61	0.48
1:C:288:HIS:HE2	1:C:614:GLN:HB3	1.78	0.48
1:D:259:GLN:NE2	1:D:273:PHE:HE1	2.11	0.48
1:F:343:PHE:HD1	1:F:344:THR:H	1.61	0.48
1:F:684:TRP:N	1:F:684:TRP:CD1	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:255:HIS:ND1	1:G:652:PRO:HG3	2.28	0.48
1:G:262:SER:N	1:G:272:TYR:O	2.46	0.48
1:G:268:ASN:HA	1:G:271:HIS:CD2	2.49	0.48
1:H:288:HIS:HE2	1:H:614:GLN:HB3	1.78	0.48
1:H:308:PRO:HD3	1:H:637:PHE:HE2	1.77	0.48
1:H:598:GLN:HG3	1:H:599:GLY:O	2.13	0.48
1:I:245:ARG:CZ	1:I:366:PRO:HA	2.43	0.48
1:I:268:ASN:HA	1:I:271:HIS:CD2	2.49	0.48
1:J:268:ASN:HA	1:J:271:HIS:CD2	2.49	0.48
1:M:381:ASN:OD1	1:M:382:ASN:N	2.47	0.48
1:M:452:SER:OG	1:M:456:THR:O	2.27	0.48
1:O:306:PHE:HA	1:O:686:LEU:HA	1.95	0.48
1:O:598:GLN:HG3	1:O:599:GLY:O	2.13	0.48
1:O:684:TRP:N	1:O:684:TRP:CD1	2.81	0.48
1:P:452:SER:OG	1:P:456:THR:O	2.27	0.48
1:P:482:CYS:HA	1:P:523:MET:HE1	1.96	0.48
1:P:497:ASN:N	1:P:498:SER:HB2	2.28	0.48
1:R:268:ASN:HA	1:R:271:HIS:CD2	2.49	0.48
1:R:557:VAL:O	1:R:558:MET:HB2	2.13	0.48
1:S:381:ASN:OD1	1:S:382:ASN:N	2.47	0.48
1:T:482:CYS:HA	1:T:523:MET:HE1	1.96	0.48
1:U:259:GLN:NE2	1:U:273:PHE:HE1	2.12	0.48
1:V:288:HIS:HE2	1:V:614:GLN:HB3	1.78	0.48
1:V:497:ASN:N	1:V:498:SER:HB2	2.28	0.48
1:W:308:PRO:HD3	1:W:637:PHE:HE2	1.77	0.48
1:X:259:GLN:NE2	1:X:273:PHE:HE1	2.11	0.48
1:X:557:VAL:HG23	1:X:559:ILE:HG13	1.96	0.48
1:Y:245:ARG:CZ	1:Y:366:PRO:HA	2.43	0.48
1:Z:527:LYS:HG2	1:Z:528:ASP:OD1	2.13	0.48
1:a:482:CYS:HA	1:a:523:MET:HE1	1.95	0.48
1:c:268:ASN:HA	1:c:271:HIS:CD2	2.49	0.48
1:e:268:ASN:HA	1:e:271:HIS:CD2	2.49	0.48
1:e:381:ASN:OD1	1:e:382:ASN:N	2.47	0.48
1:f:255:HIS:ND1	1:f:652:PRO:HG3	2.28	0.48
1:f:308:PRO:HD3	1:f:637:PHE:HE2	1.77	0.48
1:f:343:PHE:HD1	1:f:344:THR:H	1.61	0.48
1:g:343:PHE:HD1	1:g:344:THR:H	1.61	0.48
1:h:482:CYS:HA	1:h:523:MET:HE1	1.96	0.48
1:j:308:PRO:HD3	1:j:637:PHE:HE2	1.77	0.48
1:k:343:PHE:HD1	1:k:344:THR:H	1.61	0.48
1:k:482:CYS:HA	1:k:523:MET:HE1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:557:VAL:O	1:k:558:MET:HB2	2.13	0.48
1:l:262:SER:N	1:l:272:TYR:O	2.46	0.48
1:m:245:ARG:CZ	1:m:366:PRO:HA	2.43	0.48
1:m:308:PRO:HD3	1:m:637:PHE:HE2	1.77	0.48
1:m:527:LYS:HG2	1:m:528:ASP:OD1	2.13	0.48
1:n:361:CYS:O	1:n:362:LEU:HD12	2.12	0.48
1:n:482:CYS:HA	1:n:523:MET:HE1	1.96	0.48
1:n:527:LYS:HG2	1:n:528:ASP:OD1	2.13	0.48
1:o:347:GLU:OE1	1:o:347:GLU:N	2.41	0.48
1:o:474:SER:N	1:p:518:ASN:HD22	2.11	0.48
1:o:557:VAL:HG23	1:o:559:ILE:HG13	1.96	0.48
1:p:255:HIS:ND1	1:p:652:PRO:HG3	2.28	0.48
1:p:262:SER:N	1:p:272:TYR:O	2.46	0.48
1:p:343:PHE:HD1	1:p:344:THR:H	1.61	0.48
1:q:482:CYS:HA	1:q:523:MET:HE1	1.95	0.48
1:r:245:ARG:CZ	1:r:366:PRO:HA	2.43	0.48
1:r:247:TRP:NE1	1:r:677:GLN:O	2.34	0.48
1:s:381:ASN:OD1	1:s:382:ASN:N	2.47	0.48
1:s:553:ASP:OD1	1:s:554:ILE:N	2.45	0.48
1:t:268:ASN:HA	1:t:271:HIS:CD2	2.49	0.48
1:t:288:HIS:HE2	1:t:614:GLN:HB3	1.78	0.48
1:w:268:ASN:HA	1:w:271:HIS:CD2	2.49	0.48
1:w:381:ASN:OD1	1:w:382:ASN:N	2.47	0.48
1:x:268:ASN:HA	1:x:271:HIS:CD2	2.49	0.48
1:x:391:SER:OG	1:x:392:PHE:N	2.44	0.48
1:x:452:SER:OG	1:x:456:THR:O	2.27	0.48
1:x:557:VAL:HG23	1:x:559:ILE:HG13	1.96	0.48
1:y:268:ASN:HA	1:y:271:HIS:CD2	2.49	0.48
1:y:497:ASN:N	1:y:498:SER:HB2	2.28	0.48
1:z:259:GLN:NE2	1:z:273:PHE:HE1	2.11	0.48
1:z:443:TYR:OH	1:1:547:SER:OG	2.31	0.48
1:1:482:CYS:HA	1:1:523:MET:HE1	1.95	0.48
1:2:255:HIS:ND1	1:2:652:PRO:HG3	2.28	0.48
1:2:482:CYS:HA	1:2:523:MET:HE1	1.95	0.48
1:3:557:VAL:O	1:3:558:MET:HB2	2.13	0.48
1:3:557:VAL:HG23	1:3:559:ILE:HG13	1.96	0.48
1:3:598:GLN:HG3	1:3:599:GLY:O	2.13	0.48
1:5:431:ASP:OD1	1:5:432:ALA:N	2.45	0.48
1:6:245:ARG:CZ	1:6:366:PRO:HA	2.43	0.48
1:6:581:THR:N	1:6:591:ALA:O	2.37	0.48
1:8:308:PRO:HD3	1:8:637:PHE:HE2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:482:CYS:HA	1:8:523:MET:HE1	1.95	0.48
1:A:259:GLN:NE2	1:A:273:PHE:HE1	2.12	0.48
1:A:268:ASN:HA	1:A:271:HIS:CD2	2.49	0.48
1:B:582:ASN:OD1	1:B:591:ALA:N	2.35	0.48
1:B:711:ASP:O	1:B:713:THR:N	2.46	0.48
1:C:268:ASN:HA	1:C:271:HIS:CD2	2.49	0.48
1:D:598:GLN:HG3	1:D:599:GLY:O	2.13	0.48
1:E:262:SER:N	1:E:272:TYR:O	2.46	0.48
1:F:245:ARG:CZ	1:F:366:PRO:HA	2.43	0.48
1:G:343:PHE:HD1	1:G:344:THR:H	1.61	0.48
1:G:698:ILE:O	1:H:701:THR:OG1	2.17	0.48
1:H:306:PHE:HA	1:H:686:LEU:HA	1.95	0.48
1:K:268:ASN:HA	1:K:271:HIS:CD2	2.49	0.48
1:K:347:GLU:OE1	1:K:347:GLU:N	2.41	0.48
1:K:598:GLN:HG3	1:K:599:GLY:O	2.13	0.48
1:L:268:ASN:HA	1:L:271:HIS:CD2	2.49	0.48
1:L:288:HIS:HE2	1:L:614:GLN:HB3	1.78	0.48
1:M:245:ARG:CZ	1:M:366:PRO:HA	2.43	0.48
1:M:268:ASN:HA	1:M:271:HIS:CD2	2.49	0.48
1:N:497:ASN:N	1:N:498:SER:HB2	2.28	0.48
1:N:545:GLN:OE1	1:N:545:GLN:N	2.34	0.48
1:O:557:VAL:O	1:O:558:MET:HB2	2.13	0.48
1:P:598:GLN:HG3	1:P:599:GLY:O	2.13	0.48
1:Q:557:VAL:O	1:Q:558:MET:HB2	2.13	0.48
1:R:255:HIS:ND1	1:R:652:PRO:HG3	2.28	0.48
1:V:343:PHE:HD1	1:V:344:THR:H	1.61	0.48
1:W:245:ARG:CZ	1:W:366:PRO:HA	2.43	0.48
1:W:262:SER:N	1:W:272:TYR:O	2.46	0.48
1:X:268:ASN:HA	1:X:271:HIS:CD2	2.49	0.48
1:X:381:ASN:OD1	1:X:382:ASN:N	2.46	0.48
1:X:391:SER:OG	1:X:392:PHE:N	2.44	0.48
1:a:431:ASP:OD1	1:a:432:ALA:N	2.45	0.48
1:a:497:ASN:N	1:a:498:SER:HB2	2.28	0.48
1:b:288:HIS:HE2	1:b:614:GLN:HB3	1.78	0.48
1:d:255:HIS:ND1	1:d:652:PRO:HG3	2.28	0.48
1:d:431:ASP:OD1	1:d:432:ALA:N	2.45	0.48
1:d:482:CYS:HA	1:d:523:MET:HE1	1.95	0.48
1:d:557:VAL:O	1:d:558:MET:HB2	2.13	0.48
1:e:246:THR:HG23	1:e:369:VAL:HG23	1.96	0.48
1:e:262:SER:N	1:e:272:TYR:O	2.46	0.48
1:f:259:GLN:HB3	1:z:715:ASP:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:381:ASN:OD1	1:g:382:ASN:N	2.47	0.48
1:g:557:VAL:O	1:g:558:MET:HB2	2.13	0.48
1:h:343:PHE:HD1	1:h:344:THR:H	1.61	0.48
1:i:482:CYS:HA	1:i:523:MET:HE1	1.96	0.48
1:i:553:ASP:OD1	1:i:554:ILE:N	2.45	0.48
1:i:557:VAL:O	1:i:558:MET:HB2	2.13	0.48
1:j:268:ASN:HA	1:j:271:HIS:CD2	2.49	0.48
1:l:527:LYS:HG2	1:l:528:ASP:OD1	2.13	0.48
1:l:557:VAL:O	1:l:558:MET:HB2	2.13	0.48
1:o:391:SER:OG	1:o:392:PHE:N	2.44	0.48
1:p:268:ASN:HA	1:p:271:HIS:CD2	2.49	0.48
1:q:306:PHE:HA	1:q:686:LEU:HA	1.95	0.48
1:s:306:PHE:HA	1:s:686:LEU:HA	1.95	0.48
1:t:255:HIS:ND1	1:t:652:PRO:HG3	2.28	0.48
1:u:245:ARG:CZ	1:u:366:PRO:HA	2.43	0.48
1:u:381:ASN:OD1	1:u:382:ASN:N	2.47	0.48
1:v:581:THR:N	1:v:591:ALA:O	2.37	0.48
1:x:381:ASN:OD1	1:x:382:ASN:N	2.47	0.48
1:y:288:HIS:HE2	1:y:614:GLN:HB3	1.78	0.48
1:z:553:ASP:OD1	1:z:554:ILE:N	2.46	0.48
1:z:557:VAL:O	1:z:558:MET:HB2	2.13	0.48
1:2:381:ASN:OD1	1:2:382:ASN:N	2.47	0.48
1:3:245:ARG:CZ	1:3:366:PRO:HA	2.43	0.48
1:3:268:ASN:HA	1:3:271:HIS:CD2	2.49	0.48
1:4:361:CYS:O	1:4:362:LEU:HD12	2.12	0.48
1:4:381:ASN:OD1	1:4:382:ASN:N	2.47	0.48
1:4:482:CYS:HA	1:4:523:MET:HE1	1.96	0.48
1:4:527:LYS:HG2	1:4:528:ASP:OD1	2.13	0.48
1:5:381:ASN:OD1	1:5:382:ASN:N	2.47	0.48
1:6:343:PHE:HD1	1:6:344:THR:H	1.61	0.48
1:7:262:SER:N	1:7:272:TYR:O	2.46	0.48
1:8:541:ILE:HG22	1:8:542:PHE:O	2.12	0.48
1:A:518:ASN:HD22	1:I:474:SER:N	2.12	0.48
1:B:381:ASN:OD1	1:B:382:ASN:N	2.47	0.48
1:C:553:ASP:OD1	1:C:554:ILE:N	2.46	0.48
1:D:268:ASN:HA	1:D:271:HIS:CD2	2.49	0.48
1:E:684:TRP:N	1:E:684:TRP:CD1	2.81	0.48
1:F:259:GLN:NE2	1:F:273:PHE:HE1	2.11	0.48
1:F:711:ASP:O	1:F:713:THR:N	2.46	0.48
1:G:398:PHE:N	1:G:398:PHE:CD1	2.81	0.48
1:I:246:THR:HG23	1:I:369:VAL:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:381:ASN:OD1	1:I:382:ASN:N	2.47	0.48
1:J:245:ARG:CZ	1:J:366:PRO:HA	2.43	0.48
1:J:381:ASN:OD1	1:J:382:ASN:N	2.47	0.48
1:J:557:VAL:HG23	1:J:559:ILE:HG13	1.96	0.48
1:K:308:PRO:HD3	1:K:637:PHE:HE2	1.77	0.48
1:K:497:ASN:N	1:K:498:SER:HB2	2.28	0.48
1:L:482:CYS:HA	1:L:523:MET:HE1	1.95	0.48
1:L:598:GLN:HG3	1:L:599:GLY:O	2.13	0.48
1:M:557:VAL:HG23	1:M:559:ILE:HG13	1.96	0.48
1:N:259:GLN:NE2	1:N:273:PHE:HE1	2.11	0.48
1:N:431:ASP:OD1	1:N:432:ALA:N	2.45	0.48
1:O:245:ARG:CZ	1:O:366:PRO:HA	2.43	0.48
1:O:268:ASN:HA	1:O:271:HIS:CD2	2.49	0.48
1:O:431:ASP:OD1	1:O:432:ALA:N	2.45	0.48
1:P:381:ASN:OD1	1:P:382:ASN:N	2.47	0.48
1:Q:288:HIS:HE2	1:Q:614:GLN:HB3	1.78	0.48
1:Q:381:ASN:OD1	1:Q:382:ASN:N	2.47	0.48
1:Q:711:ASP:O	1:Q:713:THR:N	2.46	0.48
1:U:381:ASN:OD1	1:U:382:ASN:N	2.47	0.48
1:V:268:ASN:HA	1:V:271:HIS:CD2	2.49	0.48
1:W:255:HIS:ND1	1:W:652:PRO:HG3	2.28	0.48
1:W:288:HIS:HE2	1:W:614:GLN:HB3	1.78	0.48
1:Z:245:ARG:CZ	1:Z:366:PRO:HA	2.43	0.48
1:Z:268:ASN:HA	1:Z:271:HIS:CD2	2.49	0.48
1:Z:396:GLU:OE1	1:Z:396:GLU:N	2.47	0.48
1:a:711:ASP:O	1:a:713:THR:N	2.46	0.48
1:b:582:ASN:OD1	1:b:591:ALA:N	2.35	0.48
1:b:711:ASP:O	1:b:713:THR:N	2.46	0.48
1:c:381:ASN:OD1	1:c:382:ASN:N	2.47	0.48
1:d:245:ARG:CZ	1:d:366:PRO:HA	2.43	0.48
1:d:381:ASN:OD1	1:d:382:ASN:N	2.47	0.48
1:d:474:SER:N	1:l:518:ASN:HD22	2.12	0.48
1:f:268:ASN:HA	1:f:271:HIS:CD2	2.49	0.48
1:f:482:CYS:HA	1:f:523:MET:HE1	1.96	0.48
1:h:396:GLU:OE1	1:h:396:GLU:N	2.47	0.48
1:i:245:ARG:CZ	1:i:366:PRO:HA	2.43	0.48
1:i:347:GLU:OE1	1:i:347:GLU:N	2.41	0.48
1:i:381:ASN:OD1	1:i:382:ASN:N	2.47	0.48
1:j:482:CYS:HA	1:j:523:MET:HE1	1.95	0.48
1:l:245:ARG:CZ	1:l:366:PRO:HA	2.43	0.48
1:l:553:ASP:OD1	1:l:554:ILE:N	2.45	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:482:CYS:HA	1:m:523:MET:HE1	1.96	0.48
1:n:259:GLN:NE2	1:n:273:PHE:HE1	2.11	0.48
1:n:381:ASN:OD1	1:n:382:ASN:N	2.47	0.48
1:n:557:VAL:HG23	1:n:559:ILE:HG13	1.96	0.48
1:o:268:ASN:HA	1:o:271:HIS:CD2	2.49	0.48
1:o:308:PRO:HD3	1:o:637:PHE:HE2	1.77	0.48
1:o:381:ASN:OD1	1:o:382:ASN:N	2.47	0.48
1:p:288:HIS:HE2	1:p:614:GLN:HB3	1.78	0.48
1:p:391:SER:OG	1:p:392:PHE:N	2.44	0.48
1:q:245:ARG:CZ	1:q:366:PRO:HA	2.43	0.48
1:q:255:HIS:ND1	1:q:652:PRO:HG3	2.28	0.48
1:q:288:HIS:HE2	1:q:614:GLN:HB3	1.78	0.48
1:r:259:GLN:NE2	1:r:273:PHE:HE1	2.11	0.48
1:s:598:GLN:HG3	1:s:599:GLY:O	2.13	0.48
1:v:381:ASN:OD1	1:v:382:ASN:N	2.47	0.48
1:y:262:SER:N	1:y:272:TYR:O	2.46	0.48
1:y:343:PHE:HD1	1:y:344:THR:H	1.61	0.48
1:2:245:ARG:CZ	1:2:366:PRO:HA	2.43	0.48
1:2:246:THR:HG23	1:2:369:VAL:HG23	1.96	0.48
1:2:557:VAL:HG23	1:2:559:ILE:HG13	1.96	0.48
1:3:431:ASP:OD1	1:3:432:ALA:N	2.45	0.48
1:4:259:GLN:NE2	1:4:273:PHE:HE1	2.11	0.48
1:4:557:VAL:HG23	1:4:559:ILE:HG13	1.96	0.48
1:5:288:HIS:HE2	1:5:614:GLN:HB3	1.78	0.48
1:5:557:VAL:O	1:5:558:MET:HB2	2.13	0.48
1:5:711:ASP:O	1:5:713:THR:N	2.46	0.48
1:6:259:GLN:NE2	1:6:273:PHE:HE1	2.11	0.48
1:6:381:ASN:OD1	1:6:382:ASN:N	2.47	0.48
1:6:684:TRP:N	1:6:684:TRP:CD1	2.81	0.48
1:7:343:PHE:HD1	1:7:344:THR:H	1.61	0.48
1:7:684:TRP:N	1:7:684:TRP:CD1	2.81	0.48
1:8:381:ASN:OD1	1:8:382:ASN:N	2.47	0.48
1:8:396:GLU:OE1	1:8:396:GLU:N	2.47	0.48
1:A:381:ASN:OD1	1:A:382:ASN:N	2.47	0.48
1:A:391:SER:OG	1:A:392:PHE:N	2.44	0.48
1:A:424:TYR:HA	1:A:731:LEU:O	2.14	0.48
1:C:482:CYS:HA	1:C:523:MET:HE1	1.96	0.48
1:D:381:ASN:OD1	1:D:382:ASN:N	2.47	0.48
1:D:497:ASN:N	1:D:498:SER:HB2	2.28	0.48
1:E:343:PHE:HD1	1:E:344:THR:H	1.61	0.48
1:F:381:ASN:OD1	1:F:382:ASN:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:581:THR:N	1:F:591:ALA:O	2.37	0.48
1:F:598:GLN:HG3	1:F:599:GLY:O	2.13	0.48
1:G:245:ARG:CZ	1:G:366:PRO:HA	2.43	0.48
1:G:246:THR:HG23	1:G:369:VAL:HG23	1.96	0.48
1:G:288:HIS:HE2	1:G:614:GLN:HB3	1.78	0.48
1:G:391:SER:OG	1:G:392:PHE:N	2.44	0.48
1:I:711:ASP:O	1:I:713:THR:N	2.46	0.48
1:K:255:HIS:ND1	1:K:652:PRO:HG3	2.28	0.48
1:K:381:ASN:OD1	1:K:382:ASN:N	2.47	0.48
1:L:259:GLN:NE2	1:L:273:PHE:HE1	2.11	0.48
1:L:581:THR:N	1:L:591:ALA:O	2.37	0.48
1:M:382:ASN:CG	1:M:383:GLY:H	2.22	0.48
1:N:711:ASP:O	1:N:713:THR:N	2.46	0.48
1:P:268:ASN:HA	1:P:271:HIS:CD2	2.49	0.48
1:P:306:PHE:HA	1:P:686:LEU:HA	1.95	0.48
1:Q:343:PHE:HD1	1:Q:344:THR:H	1.61	0.48
1:S:245:ARG:CZ	1:S:366:PRO:HA	2.43	0.48
1:S:382:ASN:CG	1:S:383:GLY:H	2.22	0.48
1:S:431:ASP:OD1	1:S:432:ALA:N	2.45	0.48
1:S:497:ASN:N	1:S:498:SER:HB2	2.28	0.48
1:T:288:HIS:HE2	1:T:614:GLN:HB3	1.78	0.48
1:T:306:PHE:HA	1:T:686:LEU:HA	1.95	0.48
1:T:557:VAL:O	1:T:558:MET:HB2	2.13	0.48
1:U:306:PHE:HA	1:U:686:LEU:HA	1.95	0.48
1:U:396:GLU:OE1	1:U:396:GLU:N	2.47	0.48
1:V:262:SER:N	1:V:272:TYR:O	2.46	0.48
1:V:381:ASN:OD1	1:V:382:ASN:N	2.47	0.48
1:Y:259:GLN:NE2	1:Y:273:PHE:HE1	2.11	0.48
1:Z:482:CYS:HA	1:Z:523:MET:HE1	1.95	0.48
1:a:259:GLN:NE2	1:a:273:PHE:HE1	2.11	0.48
1:a:343:PHE:HD1	1:a:344:THR:H	1.61	0.48
1:b:245:ARG:CZ	1:b:366:PRO:HA	2.43	0.48
1:b:381:ASN:OD1	1:b:382:ASN:N	2.47	0.48
1:b:482:CYS:HA	1:b:523:MET:HE1	1.95	0.48
1:c:246:THR:HG23	1:c:369:VAL:HG23	1.96	0.48
1:c:711:ASP:O	1:c:713:THR:N	2.46	0.48
1:d:246:THR:HG23	1:d:369:VAL:HG23	1.96	0.48
1:d:462:PHE:HE2	1:l:554:ILE:HG22	1.79	0.48
1:d:557:VAL:HG23	1:d:559:ILE:HG13	1.96	0.48
1:e:259:GLN:NE2	1:e:273:PHE:HE1	2.11	0.48
1:e:497:ASN:N	1:e:498:SER:HB2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:684:TRP:N	1:e:684:TRP:CD1	2.81	0.48
1:f:306:PHE:HA	1:f:686:LEU:HA	1.95	0.48
1:f:396:GLU:OE1	1:f:396:GLU:N	2.47	0.48
1:f:497:ASN:N	1:f:498:SER:HB2	2.28	0.48
1:g:245:ARG:CZ	1:g:366:PRO:HA	2.43	0.48
1:g:553:ASP:OD1	1:g:554:ILE:N	2.45	0.48
1:h:527:LYS:HG2	1:h:528:ASP:OD1	2.13	0.48
1:h:557:VAL:HG23	1:h:559:ILE:HG13	1.96	0.48
1:h:598:GLN:HG3	1:h:599:GLY:O	2.13	0.48
1:i:268:ASN:HA	1:i:271:HIS:CD2	2.49	0.48
1:i:343:PHE:HD1	1:i:344:THR:H	1.61	0.48
1:j:306:PHE:HA	1:j:686:LEU:HA	1.95	0.48
1:j:497:ASN:N	1:j:498:SER:HB2	2.28	0.48
1:k:396:GLU:OE1	1:k:396:GLU:N	2.47	0.48
1:k:557:VAL:HG23	1:k:559:ILE:HG13	1.96	0.48
1:l:658:SER:O	1:l:659:THR:OG1	2.27	0.48
1:m:246:THR:HG23	1:m:369:VAL:HG23	1.96	0.48
1:m:268:ASN:HA	1:m:271:HIS:CD2	2.49	0.48
1:m:381:ASN:OD1	1:m:382:ASN:N	2.46	0.48
1:m:396:GLU:OE1	1:m:396:GLU:N	2.47	0.48
1:m:557:VAL:HG23	1:m:559:ILE:HG13	1.96	0.48
1:p:245:ARG:CZ	1:p:366:PRO:HA	2.43	0.48
1:p:398:PHE:N	1:p:398:PHE:CD1	2.81	0.48
1:p:698:ILE:O	1:s:701:THR:OG1	2.14	0.48
1:q:262:SER:N	1:q:272:TYR:O	2.46	0.48
1:q:308:PRO:HD3	1:q:637:PHE:HE2	1.77	0.48
1:s:347:GLU:OE1	1:s:347:GLU:N	2.41	0.48
1:s:711:ASP:O	1:s:713:THR:N	2.46	0.48
1:u:382:ASN:CG	1:u:383:GLY:H	2.22	0.48
1:u:497:ASN:N	1:u:498:SER:HB2	2.28	0.48
1:w:246:THR:HG23	1:w:369:VAL:HG23	1.96	0.48
1:w:262:SER:N	1:w:272:TYR:O	2.46	0.48
1:w:684:TRP:N	1:w:684:TRP:CD1	2.81	0.48
1:z:245:ARG:CZ	1:z:366:PRO:HA	2.43	0.48
1:z:482:CYS:HA	1:z:523:MET:HE1	1.95	0.48
1:z:518:ASN:HD22	1:2:474:SER:N	2.12	0.48
1:z:557:VAL:HG23	1:z:559:ILE:HG13	1.95	0.48
1:1:288:HIS:HE2	1:1:614:GLN:HB3	1.78	0.48
1:1:306:PHE:HA	1:1:686:LEU:HA	1.95	0.48
1:2:598:GLN:HG3	1:2:599:GLY:O	2.13	0.48
1:6:557:VAL:O	1:6:558:MET:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:711:ASP:O	1:6:713:THR:N	2.46	0.48
1:8:382:ASN:CG	1:8:383:GLY:H	2.22	0.48
1:8:553:ASP:OD1	1:8:554:ILE:N	2.46	0.48
1:A:308:PRO:HD3	1:A:637:PHE:HE2	1.77	0.48
1:A:347:GLU:OE1	1:A:347:GLU:N	2.41	0.48
1:C:259:GLN:NE2	1:C:273:PHE:HE1	2.11	0.48
1:C:598:GLN:HG3	1:C:599:GLY:O	2.13	0.48
1:D:255:HIS:ND1	1:D:652:PRO:HG3	2.28	0.48
1:D:527:LYS:HG2	1:D:528:ASP:OD1	2.13	0.48
1:F:246:THR:HG23	1:F:369:VAL:HG23	1.96	0.48
1:F:396:GLU:OE1	1:F:396:GLU:N	2.47	0.48
1:H:424:TYR:HA	1:H:731:LEU:O	2.14	0.48
1:H:711:ASP:O	1:H:713:THR:N	2.46	0.48
1:I:497:ASN:N	1:I:498:SER:HB2	2.28	0.48
1:J:382:ASN:CG	1:J:383:GLY:H	2.22	0.48
1:K:527:LYS:HG2	1:K:528:ASP:OD1	2.13	0.48
1:L:553:ASP:OD1	1:L:554:ILE:N	2.46	0.48
1:M:246:THR:HG23	1:M:369:VAL:HG23	1.96	0.48
1:M:308:PRO:HD3	1:M:637:PHE:HE2	1.77	0.48
1:M:482:CYS:HA	1:M:523:MET:HE1	1.95	0.48
1:N:343:PHE:HD1	1:N:344:THR:H	1.61	0.48
1:P:382:ASN:CG	1:P:383:GLY:H	2.22	0.48
1:P:396:GLU:OE1	1:P:396:GLU:N	2.47	0.48
1:P:553:ASP:OD1	1:P:554:ILE:N	2.45	0.48
1:Q:259:GLN:NE2	1:Q:273:PHE:HE1	2.11	0.48
1:R:381:ASN:OD1	1:R:382:ASN:N	2.46	0.48
1:R:711:ASP:O	1:R:713:THR:N	2.46	0.48
1:T:268:ASN:HA	1:T:271:HIS:CD2	2.49	0.48
1:U:246:THR:HG23	1:U:369:VAL:HG23	1.96	0.48
1:U:262:SER:N	1:U:272:TYR:O	2.46	0.48
1:V:245:ARG:CZ	1:V:366:PRO:HA	2.43	0.48
1:Y:396:GLU:OE1	1:Y:396:GLU:N	2.47	0.48
1:Z:306:PHE:HA	1:Z:686:LEU:HA	1.95	0.48
1:Z:381:ASN:OD1	1:Z:382:ASN:N	2.46	0.48
1:Z:557:VAL:HG23	1:Z:559:ILE:HG13	1.96	0.48
1:c:262:SER:N	1:c:272:TYR:O	2.46	0.48
1:c:497:ASN:N	1:c:498:SER:HB2	2.28	0.48
1:d:288:HIS:HE2	1:d:614:GLN:HB3	1.78	0.48
1:d:497:ASN:N	1:d:498:SER:HB2	2.28	0.48
1:e:306:PHE:HA	1:e:686:LEU:HA	1.95	0.48
1:e:382:ASN:CG	1:e:383:GLY:H	2.22	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:288:HIS:HE2	1:f:614:GLN:HB3	1.78	0.48
1:g:262:SER:N	1:g:272:TYR:O	2.46	0.48
1:g:268:ASN:HA	1:g:271:HIS:CD2	2.49	0.48
1:g:557:VAL:HG23	1:g:559:ILE:HG13	1.96	0.48
1:h:262:SER:N	1:h:272:TYR:O	2.46	0.48
1:i:262:SER:N	1:i:272:TYR:O	2.46	0.48
1:j:288:HIS:HE2	1:j:614:GLN:HB3	1.78	0.48
1:j:711:ASP:O	1:j:713:THR:N	2.46	0.48
1:k:527:LYS:HG2	1:k:528:ASP:OD1	2.13	0.48
1:k:598:GLN:HG3	1:k:599:GLY:O	2.13	0.48
1:l:268:ASN:HA	1:l:271:HIS:CD2	2.49	0.48
1:l:482:CYS:HA	1:l:523:MET:HE1	1.96	0.48
1:l:557:VAL:HG23	1:l:559:ILE:HG13	1.96	0.48
1:m:306:PHE:HA	1:m:686:LEU:HA	1.95	0.48
1:o:245:ARG:CZ	1:o:366:PRO:HA	2.43	0.48
1:p:246:THR:HG23	1:p:369:VAL:HG23	1.96	0.48
1:s:424:TYR:HA	1:s:731:LEU:O	2.14	0.48
1:t:381:ASN:OD1	1:t:382:ASN:N	2.47	0.48
1:t:711:ASP:O	1:t:713:THR:N	2.46	0.48
1:v:262:SER:N	1:v:272:TYR:O	2.46	0.48
1:v:396:GLU:OE1	1:v:396:GLU:N	2.47	0.48
1:w:255:HIS:ND1	1:w:652:PRO:HG3	2.28	0.48
1:w:259:GLN:NE2	1:w:273:PHE:HE1	2.11	0.48
1:w:396:GLU:OE1	1:w:396:GLU:N	2.47	0.48
1:w:497:ASN:N	1:w:498:SER:HB2	2.28	0.48
1:x:607:GLN:NE2	1:y:625:ASP:OD1	2.47	0.48
1:y:245:ARG:CZ	1:y:366:PRO:HA	2.43	0.48
1:y:381:ASN:OD1	1:y:382:ASN:N	2.47	0.48
1:1:268:ASN:HA	1:1:271:HIS:CD2	2.49	0.48
1:2:288:HIS:HE2	1:2:614:GLN:HB3	1.78	0.48
1:2:497:ASN:N	1:2:498:SER:HB2	2.28	0.48
1:3:396:GLU:OE1	1:3:396:GLU:N	2.47	0.48
1:7:268:ASN:HA	1:7:271:HIS:CD2	2.49	0.48
1:7:381:ASN:OD1	1:7:382:ASN:N	2.47	0.48
1:8:306:PHE:HA	1:8:686:LEU:HA	1.95	0.48
1:8:398:PHE:N	1:8:398:PHE:CD1	2.81	0.48
1:B:245:ARG:CZ	1:B:366:PRO:HA	2.43	0.48
1:B:474:SER:N	1:J:518:ASN:HD22	2.12	0.48
1:B:482:CYS:HA	1:B:523:MET:HE1	1.95	0.48
1:D:308:PRO:HD3	1:D:637:PHE:HE2	1.77	0.48
1:D:557:VAL:O	1:D:558:MET:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:268:ASN:HA	1:E:271:HIS:CD2	2.49	0.48
1:E:381:ASN:OD1	1:E:382:ASN:N	2.47	0.48
1:E:424:TYR:HA	1:E:731:LEU:O	2.14	0.48
1:F:306:PHE:HA	1:F:686:LEU:HA	1.95	0.48
1:F:557:VAL:O	1:F:558:MET:HB2	2.13	0.48
1:G:424:TYR:HA	1:G:731:LEU:O	2.14	0.48
1:I:382:ASN:CG	1:I:383:GLY:H	2.22	0.48
1:J:246:THR:HG23	1:J:369:VAL:HG23	1.96	0.48
1:J:308:PRO:HD3	1:J:637:PHE:HE2	1.77	0.48
1:J:444:TYR:HD1	1:J:445:LEU:H	1.62	0.48
1:J:482:CYS:HA	1:J:523:MET:HE1	1.95	0.48
1:K:557:VAL:O	1:K:558:MET:HB2	2.13	0.48
1:O:396:GLU:OE1	1:O:396:GLU:N	2.47	0.48
1:P:255:HIS:ND1	1:P:652:PRO:HG3	2.28	0.48
1:P:398:PHE:N	1:P:398:PHE:CD1	2.81	0.48
1:T:382:ASN:CG	1:T:383:GLY:H	2.22	0.48
1:V:396:GLU:OE1	1:V:396:GLU:N	2.47	0.48
1:V:444:TYR:HD1	1:V:445:LEU:H	1.62	0.48
1:W:452:SER:OG	1:W:456:THR:O	2.27	0.48
1:X:396:GLU:OE1	1:X:396:GLU:N	2.47	0.48
1:Z:246:THR:HG23	1:Z:369:VAL:HG23	1.96	0.48
1:Z:262:SER:N	1:Z:272:TYR:O	2.46	0.48
1:d:598:GLN:HG3	1:d:599:GLY:O	2.13	0.48
1:e:255:HIS:ND1	1:e:652:PRO:HG3	2.28	0.48
1:e:396:GLU:OE1	1:e:396:GLU:N	2.47	0.48
1:f:625:ASP:OD1	1:g:607:GLN:NE2	2.47	0.48
1:f:711:ASP:O	1:f:713:THR:N	2.46	0.48
1:g:306:PHE:HA	1:g:686:LEU:HA	1.95	0.48
1:h:382:ASN:CG	1:h:383:GLY:H	2.22	0.48
1:i:557:VAL:HG23	1:i:559:ILE:HG13	1.96	0.48
1:j:361:CYS:SG	1:j:362:LEU:N	2.72	0.48
1:j:396:GLU:OE1	1:j:396:GLU:N	2.47	0.48
1:k:262:SER:N	1:k:272:TYR:O	2.46	0.48
1:m:255:HIS:ND1	1:m:652:PRO:HG3	2.28	0.48
1:o:288:HIS:HE2	1:o:614:GLN:HB3	1.78	0.48
1:p:424:TYR:HA	1:p:731:LEU:O	2.14	0.48
1:q:424:TYR:HA	1:q:731:LEU:O	2.14	0.48
1:r:268:ASN:HA	1:r:271:HIS:CD2	2.49	0.48
1:r:381:ASN:OD1	1:r:382:ASN:N	2.46	0.48
1:r:396:GLU:OE1	1:r:396:GLU:N	2.47	0.48
1:s:582:ASN:OD1	1:s:591:ALA:N	2.35	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:244:THR:O	1:u:245:ARG:NH1	2.40	0.48
1:w:382:ASN:CG	1:w:383:GLY:H	2.22	0.48
1:x:343:PHE:HD1	1:x:344:THR:H	1.61	0.48
1:x:396:GLU:OE1	1:x:396:GLU:N	2.47	0.48
1:y:444:TYR:HD1	1:y:445:LEU:H	1.62	0.48
1:z:246:THR:HG23	1:z:369:VAL:HG23	1.96	0.48
1:5:259:GLN:NE2	1:5:273:PHE:HE1	2.11	0.48
1:5:343:PHE:HD1	1:5:344:THR:H	1.61	0.48
1:6:246:THR:HG23	1:6:369:VAL:HG23	1.96	0.48
1:6:306:PHE:HA	1:6:686:LEU:HA	1.95	0.48
1:6:396:GLU:OE1	1:6:396:GLU:N	2.47	0.48
1:6:598:GLN:HG3	1:6:599:GLY:O	2.13	0.48
1:7:288:HIS:HE2	1:7:614:GLN:HB3	1.78	0.48
1:7:424:TYR:HA	1:7:731:LEU:O	2.14	0.48
1:8:255:HIS:ND1	1:8:652:PRO:HG3	2.28	0.48
1:8:268:ASN:HA	1:8:271:HIS:CD2	2.49	0.48
1:A:245:ARG:CZ	1:A:366:PRO:HA	2.43	0.48
1:A:288:HIS:HE2	1:A:614:GLN:HB3	1.78	0.48
1:C:262:SER:N	1:C:272:TYR:O	2.46	0.48
1:C:308:PRO:HD3	1:C:637:PHE:HE2	1.77	0.48
1:C:382:ASN:CG	1:C:383:GLY:H	2.22	0.48
1:D:246:THR:HG23	1:D:369:VAL:HG23	1.96	0.48
1:E:245:ARG:CZ	1:E:366:PRO:HA	2.43	0.48
1:F:482:CYS:HA	1:F:523:MET:HE1	1.95	0.48
1:G:711:ASP:O	1:G:713:THR:N	2.46	0.48
1:H:582:ASN:OD1	1:H:591:ALA:N	2.35	0.48
1:L:262:SER:N	1:L:272:TYR:O	2.46	0.48
1:L:308:PRO:HD3	1:L:637:PHE:HE2	1.77	0.48
1:L:382:ASN:CG	1:L:383:GLY:H	2.22	0.48
1:M:444:TYR:HD1	1:M:445:LEU:H	1.62	0.48
1:O:343:PHE:HD1	1:O:344:THR:H	1.61	0.48
1:Q:557:VAL:HG23	1:Q:559:ILE:HG13	1.96	0.48
1:R:259:GLN:NE2	1:R:273:PHE:HE1	2.11	0.48
1:S:582:ASN:OD1	1:S:591:ALA:N	2.35	0.48
1:S:711:ASP:O	1:S:713:THR:N	2.46	0.48
1:T:245:ARG:CZ	1:T:366:PRO:HA	2.43	0.48
1:V:557:VAL:HG23	1:V:559:ILE:HG13	1.96	0.48
1:V:711:ASP:O	1:V:713:THR:N	2.46	0.48
1:W:268:ASN:HA	1:W:271:HIS:CD2	2.49	0.48
1:W:424:TYR:HA	1:W:731:LEU:O	2.14	0.48
1:X:262:SER:N	1:X:272:TYR:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:268:ASN:HA	1:Y:271:HIS:CD2	2.49	0.48
1:Z:255:HIS:ND1	1:Z:652:PRO:HG3	2.29	0.48
1:a:288:HIS:HE2	1:a:614:GLN:HB3	1.78	0.48
1:a:545:GLN:OE1	1:a:545:GLN:N	2.34	0.48
1:c:347:GLU:OE1	1:c:347:GLU:N	2.41	0.48
1:c:382:ASN:CG	1:c:383:GLY:H	2.22	0.48
1:d:306:PHE:HA	1:d:686:LEU:HA	1.95	0.48
1:f:361:CYS:SG	1:f:362:LEU:N	2.72	0.48
1:h:444:TYR:HD1	1:h:445:LEU:H	1.62	0.48
1:i:306:PHE:HA	1:i:686:LEU:HA	1.95	0.48
1:i:607:GLN:NE2	1:j:625:ASP:OD1	2.47	0.48
1:k:381:ASN:OD1	1:k:382:ASN:N	2.47	0.48
1:l:246:THR:HG23	1:l:369:VAL:HG23	1.96	0.48
1:m:262:SER:N	1:m:272:TYR:O	2.46	0.48
1:n:245:ARG:CZ	1:n:366:PRO:HA	2.43	0.48
1:n:255:HIS:ND1	1:n:652:PRO:HG3	2.28	0.48
1:n:343:PHE:HD1	1:n:344:THR:H	1.61	0.48
1:n:396:GLU:OE1	1:n:396:GLU:N	2.47	0.48
1:o:262:SER:N	1:o:272:TYR:O	2.46	0.48
1:o:424:TYR:HA	1:o:731:LEU:O	2.14	0.48
1:o:497:ASN:N	1:o:498:SER:HB2	2.28	0.48
1:o:527:LYS:HG2	1:o:528:ASP:OD1	2.13	0.48
1:q:554:ILE:HG22	1:s:462:PHE:HE2	1.77	0.48
1:v:246:THR:HG23	1:v:369:VAL:HG23	1.96	0.48
1:y:396:GLU:OE1	1:y:396:GLU:N	2.47	0.48
1:y:482:CYS:HA	1:y:523:MET:HE1	1.96	0.48
1:z:268:ASN:HA	1:z:271:HIS:CD2	2.49	0.48
1:z:658:SER:O	1:z:659:THR:OG1	2.27	0.48
1:1:245:ARG:CZ	1:1:366:PRO:HA	2.43	0.48
1:1:255:HIS:ND1	1:1:652:PRO:HG3	2.29	0.48
1:1:382:ASN:CG	1:1:383:GLY:H	2.22	0.48
1:1:557:VAL:O	1:1:558:MET:HB2	2.13	0.48
1:2:306:PHE:HA	1:2:686:LEU:HA	1.95	0.48
1:2:382:ASN:CG	1:2:383:GLY:H	2.22	0.48
1:4:245:ARG:CZ	1:4:366:PRO:HA	2.43	0.48
1:4:396:GLU:OE1	1:4:396:GLU:N	2.47	0.48
1:5:557:VAL:HG23	1:5:559:ILE:HG13	1.96	0.48
1:7:245:ARG:CZ	1:7:366:PRO:HA	2.43	0.48
1:7:306:PHE:HA	1:7:686:LEU:HA	1.95	0.48
1:D:607:GLN:NE2	1:N:625:ASP:OD1	2.47	0.47
1:E:288:HIS:HE2	1:E:614:GLN:HB3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:482:CYS:HA	1:E:523:MET:HE1	1.96	0.47
1:F:625:ASP:OD1	1:Q:607:GLN:NE2	2.47	0.47
1:G:382:ASN:CG	1:G:383:GLY:H	2.22	0.47
1:H:255:HIS:ND1	1:H:652:PRO:HG3	2.28	0.47
1:H:347:GLU:OE1	1:H:347:GLU:N	2.41	0.47
1:H:396:GLU:OE1	1:H:396:GLU:N	2.47	0.47
1:H:625:ASP:OD1	1:Y:607:GLN:NE2	2.47	0.47
1:I:262:SER:N	1:I:272:TYR:O	2.46	0.47
1:I:347:GLU:OE1	1:I:347:GLU:N	2.41	0.47
1:J:288:HIS:HE2	1:J:614:GLN:HB3	1.78	0.47
1:K:245:ARG:CZ	1:K:366:PRO:HA	2.43	0.47
1:K:246:THR:HG23	1:K:369:VAL:HG23	1.96	0.47
1:K:607:GLN:NE2	1:a:625:ASP:OD1	2.47	0.47
1:L:452:SER:OG	1:L:456:THR:O	2.27	0.47
1:M:518:ASN:HD22	1:b:474:SER:N	2.13	0.47
1:N:246:THR:HG23	1:N:369:VAL:HG23	1.96	0.47
1:N:424:TYR:HA	1:N:731:LEU:O	2.14	0.47
1:N:526:HIS:CE1	1:N:531:GLU:HG3	2.49	0.47
1:Q:245:ARG:CZ	1:Q:366:PRO:HA	2.43	0.47
1:Q:396:GLU:OE1	1:Q:396:GLU:N	2.47	0.47
1:R:545:GLN:OE1	1:R:545:GLN:N	2.34	0.47
1:S:255:HIS:ND1	1:S:652:PRO:HG3	2.28	0.47
1:S:396:GLU:OE1	1:S:396:GLU:N	2.47	0.47
1:T:255:HIS:ND1	1:T:652:PRO:HG3	2.29	0.47
1:U:497:ASN:N	1:U:498:SER:HB2	2.28	0.47
1:U:557:VAL:HG23	1:U:559:ILE:HG13	1.96	0.47
1:V:482:CYS:HA	1:V:523:MET:HE1	1.96	0.47
1:W:381:ASN:OD1	1:W:382:ASN:N	2.47	0.47
1:X:343:PHE:HD1	1:X:344:THR:H	1.61	0.47
1:Y:381:ASN:OD1	1:Y:382:ASN:N	2.47	0.47
1:Z:382:ASN:CG	1:Z:383:GLY:H	2.22	0.47
1:Z:684:TRP:CD1	1:Z:684:TRP:N	2.81	0.47
1:c:474:SER:N	1:o:518:ASN:HD22	2.12	0.47
1:d:268:ASN:HA	1:d:271:HIS:CD2	2.49	0.47
1:d:382:ASN:CG	1:d:383:GLY:H	2.22	0.47
1:e:424:TYR:HA	1:e:731:LEU:O	2.14	0.47
1:f:381:ASN:OD1	1:f:382:ASN:N	2.47	0.47
1:f:424:TYR:HA	1:f:731:LEU:O	2.14	0.47
1:g:424:TYR:HA	1:g:731:LEU:O	2.14	0.47
1:g:444:TYR:HD1	1:g:445:LEU:H	1.62	0.47
1:h:246:THR:HG23	1:h:369:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:308:PRO:HD3	1:h:637:PHE:HE2	1.77	0.47
1:i:424:TYR:HA	1:i:731:LEU:O	2.14	0.47
1:i:444:TYR:HD1	1:i:445:LEU:H	1.62	0.47
1:i:711:ASP:O	1:i:713:THR:N	2.46	0.47
1:j:378:LEU:O	1:j:379:THR:OG1	2.26	0.47
1:j:381:ASN:OD1	1:j:382:ASN:N	2.47	0.47
1:k:308:PRO:HD3	1:k:637:PHE:HE2	1.77	0.47
1:k:382:ASN:CG	1:k:383:GLY:H	2.22	0.47
1:k:444:TYR:HD1	1:k:445:LEU:H	1.62	0.47
1:l:396:GLU:OE1	1:l:396:GLU:N	2.47	0.47
1:m:382:ASN:CG	1:m:383:GLY:H	2.22	0.47
1:n:497:ASN:N	1:n:498:SER:HB2	2.28	0.47
1:q:381:ASN:OD1	1:q:382:ASN:N	2.47	0.47
1:q:382:ASN:CG	1:q:383:GLY:H	2.22	0.47
1:q:498:SER:C	1:s:449:ASN:HB2	2.39	0.47
1:r:424:TYR:HA	1:r:731:LEU:O	2.14	0.47
1:s:255:HIS:ND1	1:s:652:PRO:HG3	2.28	0.47
1:s:581:THR:N	1:s:591:ALA:O	2.37	0.47
1:t:343:PHE:HD1	1:t:344:THR:H	1.61	0.47
1:u:255:HIS:ND1	1:u:652:PRO:HG3	2.28	0.47
1:u:268:ASN:HA	1:u:271:HIS:CD2	2.49	0.47
1:u:396:GLU:OE1	1:u:396:GLU:N	2.47	0.47
1:u:711:ASP:O	1:u:713:THR:N	2.46	0.47
1:v:497:ASN:N	1:v:498:SER:HB2	2.28	0.47
1:w:288:HIS:HE2	1:w:614:GLN:HB3	1.78	0.47
1:w:306:PHE:HA	1:w:686:LEU:HA	1.95	0.47
1:w:424:TYR:HA	1:w:731:LEU:O	2.14	0.47
1:x:262:SER:N	1:x:272:TYR:O	2.46	0.47
1:y:255:HIS:ND1	1:y:652:PRO:HG3	2.28	0.47
1:y:557:VAL:HG23	1:y:559:ILE:HG13	1.96	0.47
1:y:711:ASP:O	1:y:713:THR:N	2.46	0.47
1:2:268:ASN:HA	1:2:271:HIS:CD2	2.49	0.47
1:5:396:GLU:OE1	1:5:396:GLU:N	2.47	0.47
1:6:424:TYR:HA	1:6:731:LEU:O	2.14	0.47
1:6:444:TYR:HD1	1:6:445:LEU:H	1.62	0.47
1:6:482:CYS:HA	1:6:523:MET:HE1	1.96	0.47
1:6:497:ASN:N	1:6:498:SER:HB2	2.28	0.47
1:6:526:HIS:CE1	1:6:531:GLU:HG3	2.49	0.47
1:7:396:GLU:OE1	1:7:396:GLU:N	2.47	0.47
1:7:482:CYS:HA	1:7:523:MET:HE1	1.96	0.47
1:A:262:SER:N	1:A:272:TYR:O	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:497:ASN:N	1:A:498:SER:HB2	2.28	0.47
1:A:527:LYS:HG2	1:A:528:ASP:OD1	2.13	0.47
1:B:343:PHE:HD1	1:B:344:THR:H	1.61	0.47
1:B:382:ASN:CG	1:B:383:GLY:H	2.22	0.47
1:C:396:GLU:OE1	1:C:396:GLU:N	2.47	0.47
1:C:424:TYR:HA	1:C:731:LEU:O	2.14	0.47
1:C:444:TYR:HD1	1:C:445:LEU:H	1.62	0.47
1:C:557:VAL:HG23	1:C:559:ILE:HG13	1.96	0.47
1:D:424:TYR:HA	1:D:731:LEU:O	2.14	0.47
1:E:255:HIS:ND1	1:E:652:PRO:HG3	2.28	0.47
1:E:306:PHE:HA	1:E:686:LEU:HA	1.95	0.47
1:E:396:GLU:OE1	1:E:396:GLU:N	2.47	0.47
1:F:444:TYR:HD1	1:F:445:LEU:H	1.62	0.47
1:F:497:ASN:N	1:F:498:SER:HB2	2.28	0.47
1:F:526:HIS:CE1	1:F:531:GLU:HG3	2.50	0.47
1:G:462:PHE:HE2	1:I:554:ILE:HG22	1.80	0.47
1:H:268:ASN:HA	1:H:271:HIS:CD2	2.49	0.47
1:J:255:HIS:ND1	1:J:652:PRO:HG3	2.28	0.47
1:K:424:TYR:HA	1:K:731:LEU:O	2.14	0.47
1:K:625:ASP:OD1	1:8:607:GLN:NE2	2.47	0.47
1:L:396:GLU:OE1	1:L:396:GLU:N	2.47	0.47
1:L:424:TYR:HA	1:L:731:LEU:O	2.14	0.47
1:L:444:TYR:HD1	1:L:445:LEU:H	1.62	0.47
1:M:255:HIS:ND1	1:M:652:PRO:HG3	2.28	0.47
1:N:381:ASN:OD1	1:N:382:ASN:N	2.46	0.47
1:O:424:TYR:HA	1:O:731:LEU:O	2.14	0.47
1:R:343:PHE:HD1	1:R:344:THR:H	1.61	0.47
1:R:396:GLU:OE1	1:R:396:GLU:N	2.47	0.47
1:S:244:THR:O	1:S:245:ARG:NH1	2.40	0.47
1:S:268:ASN:HA	1:S:271:HIS:CD2	2.49	0.47
1:S:474:SER:N	1:U:518:ASN:HD22	2.12	0.47
1:T:607:GLN:NE2	1:d:625:ASP:OD1	2.47	0.47
1:U:424:TYR:HA	1:U:731:LEU:O	2.14	0.47
1:V:255:HIS:ND1	1:V:652:PRO:HG3	2.28	0.47
1:V:625:ASP:OD1	1:X:607:GLN:NE2	2.48	0.47
1:W:382:ASN:CG	1:W:383:GLY:H	2.22	0.47
1:X:382:ASN:CG	1:X:383:GLY:H	2.22	0.47
1:X:482:CYS:HA	1:X:523:MET:HE1	1.95	0.47
1:Y:424:TYR:HA	1:Y:731:LEU:O	2.14	0.47
1:Y:497:ASN:N	1:Y:498:SER:HB2	2.28	0.47
1:Y:526:HIS:CE1	1:Y:531:GLU:HG3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:288:HIS:HE2	1:Z:614:GLN:HB3	1.78	0.47
1:Z:452:SER:OG	1:Z:456:THR:O	2.27	0.47
1:a:246:THR:HG23	1:a:369:VAL:HG23	1.96	0.47
1:a:381:ASN:OD1	1:a:382:ASN:N	2.47	0.47
1:a:424:TYR:HA	1:a:731:LEU:O	2.14	0.47
1:b:382:ASN:CG	1:b:383:GLY:H	2.22	0.47
1:d:396:GLU:OE1	1:d:396:GLU:N	2.47	0.47
1:e:711:ASP:O	1:e:713:THR:N	2.46	0.47
1:f:518:ASN:HD22	1:g:474:SER:N	2.12	0.47
1:g:711:ASP:O	1:g:713:THR:N	2.46	0.47
1:h:381:ASN:OD1	1:h:382:ASN:N	2.47	0.47
1:i:526:HIS:CE1	1:i:531:GLU:HG3	2.50	0.47
1:j:347:GLU:OE1	1:j:347:GLU:N	2.41	0.47
1:k:288:HIS:HE2	1:k:614:GLN:HB3	1.78	0.47
1:l:306:PHE:HA	1:l:686:LEU:HA	1.95	0.47
1:l:381:ASN:OD1	1:l:382:ASN:N	2.47	0.47
1:m:288:HIS:HE2	1:m:614:GLN:HB3	1.78	0.47
1:m:684:TRP:N	1:m:684:TRP:CD1	2.81	0.47
1:o:444:TYR:HD1	1:o:445:LEU:H	1.62	0.47
1:p:259:GLN:NE2	1:p:273:PHE:HE1	2.11	0.47
1:p:382:ASN:CG	1:p:383:GLY:H	2.22	0.47
1:p:711:ASP:O	1:p:713:THR:N	2.46	0.47
1:q:268:ASN:HA	1:q:271:HIS:CD2	2.49	0.47
1:q:452:SER:OG	1:q:456:THR:O	2.27	0.47
1:r:526:HIS:CE1	1:r:531:GLU:HG3	2.50	0.47
1:s:382:ASN:CG	1:s:383:GLY:H	2.22	0.47
1:s:396:GLU:OE1	1:s:396:GLU:N	2.47	0.47
1:t:259:GLN:NE2	1:t:273:PHE:HE1	2.11	0.47
1:t:396:GLU:OE1	1:t:396:GLU:N	2.47	0.47
1:u:474:SER:N	1:v:518:ASN:HD22	2.12	0.47
1:u:557:VAL:O	1:u:558:MET:HB2	2.13	0.47
1:v:306:PHE:HA	1:v:686:LEU:HA	1.95	0.47
1:v:424:TYR:HA	1:v:731:LEU:O	2.14	0.47
1:x:382:ASN:CG	1:x:383:GLY:H	2.22	0.47
1:x:424:TYR:HA	1:x:731:LEU:O	2.14	0.47
1:z:288:HIS:HE2	1:z:614:GLN:HB3	1.78	0.47
1:z:381:ASN:OD1	1:z:382:ASN:N	2.47	0.47
1:z:396:GLU:OE1	1:z:396:GLU:N	2.47	0.47
1:z:449:ASN:HB2	1:1:498:SER:C	2.39	0.47
1:1:381:ASN:OD1	1:1:382:ASN:N	2.47	0.47
1:2:526:HIS:CE1	1:2:531:GLU:HG3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:343:PHE:HD1	1:3:344:THR:H	1.61	0.47
1:3:424:TYR:HA	1:3:731:LEU:O	2.14	0.47
1:3:526:HIS:CE1	1:3:531:GLU:HG3	2.49	0.47
1:4:255:HIS:ND1	1:4:652:PRO:HG3	2.28	0.47
1:4:343:PHE:HD1	1:4:344:THR:H	1.61	0.47
1:5:607:GLN:NE2	1:6:625:ASP:OD1	2.48	0.47
1:8:684:TRP:N	1:8:684:TRP:CD1	2.81	0.47
1:D:245:ARG:CZ	1:D:366:PRO:HA	2.43	0.47
1:D:625:ASP:OD1	1:P:607:GLN:NE2	2.47	0.47
1:D:684:TRP:N	1:D:684:TRP:CD1	2.81	0.47
1:G:684:TRP:CD1	1:G:684:TRP:N	2.81	0.47
1:H:382:ASN:CG	1:H:383:GLY:H	2.22	0.47
1:K:684:TRP:CD1	1:K:684:TRP:N	2.81	0.47
1:N:396:GLU:OE1	1:N:396:GLU:N	2.47	0.47
1:N:581:THR:N	1:N:591:ALA:O	2.37	0.47
1:O:255:HIS:ND1	1:O:652:PRO:HG3	2.28	0.47
1:O:526:HIS:CE1	1:O:531:GLU:HG3	2.50	0.47
1:P:557:VAL:HG23	1:P:559:ILE:HG13	1.95	0.47
1:P:684:TRP:N	1:P:684:TRP:CD1	2.81	0.47
1:R:398:PHE:CD1	1:R:398:PHE:N	2.81	0.47
1:T:381:ASN:OD1	1:T:382:ASN:N	2.47	0.47
1:T:431:ASP:OD1	1:T:432:ALA:N	2.45	0.47
1:T:474:SER:N	1:d:518:ASN:HD22	2.12	0.47
1:W:526:HIS:CE1	1:W:531:GLU:HG3	2.50	0.47
1:X:424:TYR:HA	1:X:731:LEU:O	2.14	0.47
1:Y:452:SER:HA	1:Y:457:GLN:HG3	1.97	0.47
1:a:396:GLU:OE1	1:a:396:GLU:N	2.47	0.47
1:a:526:HIS:CE1	1:a:531:GLU:HG3	2.50	0.47
1:a:581:THR:N	1:a:591:ALA:O	2.37	0.47
1:b:343:PHE:HD1	1:b:344:THR:H	1.61	0.47
1:b:424:TYR:HA	1:b:731:LEU:O	2.14	0.47
1:c:396:GLU:OE1	1:c:396:GLU:N	2.47	0.47
1:c:424:TYR:HA	1:c:731:LEU:O	2.14	0.47
1:c:449:ASN:HB2	1:o:498:SER:C	2.39	0.47
1:c:482:CYS:HA	1:c:523:MET:HE1	1.95	0.47
1:d:526:HIS:CE1	1:d:531:GLU:HG3	2.50	0.47
1:e:288:HIS:HE2	1:e:614:GLN:HB3	1.78	0.47
1:e:452:SER:HA	1:e:457:GLN:HG3	1.97	0.47
1:e:526:HIS:CE1	1:e:531:GLU:HG3	2.50	0.47
1:g:658:SER:O	1:g:659:THR:OG1	2.27	0.47
1:h:424:TYR:HA	1:h:731:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:259:GLN:NE2	1:i:273:PHE:HE1	2.11	0.47
1:j:424:TYR:HA	1:j:731:LEU:O	2.14	0.47
1:k:452:SER:HA	1:k:457:GLN:HG3	1.97	0.47
1:l:255:HIS:ND1	1:l:652:PRO:HG3	2.28	0.47
1:m:526:HIS:CE1	1:m:531:GLU:HG3	2.50	0.47
1:p:684:TRP:N	1:p:684:TRP:CD1	2.81	0.47
1:p:715:ASP:O	1:q:259:GLN:HB3	2.14	0.47
1:q:526:HIS:CE1	1:q:531:GLU:HG3	2.50	0.47
1:r:343:PHE:HD1	1:r:344:THR:H	1.61	0.47
1:r:452:SER:HA	1:r:457:GLN:HG3	1.97	0.47
1:s:268:ASN:HA	1:s:271:HIS:CD2	2.49	0.47
1:t:398:PHE:N	1:t:398:PHE:CD1	2.81	0.47
1:w:452:SER:HA	1:w:457:GLN:HG3	1.97	0.47
1:w:526:HIS:CE1	1:w:531:GLU:HG3	2.50	0.47
1:w:711:ASP:O	1:w:713:THR:N	2.46	0.47
1:x:482:CYS:HA	1:x:523:MET:HE1	1.95	0.47
1:y:424:TYR:HA	1:y:731:LEU:O	2.14	0.47
1:z:382:ASN:CG	1:z:383:GLY:H	2.22	0.47
1:z:554:ILE:HG22	1:2:462:PHE:HE2	1.80	0.47
1:1:474:SER:N	1:2:518:ASN:HD22	2.12	0.47
1:1:557:VAL:HG23	1:1:559:ILE:HG13	1.96	0.47
1:4:268:ASN:HA	1:4:271:HIS:CD2	2.49	0.47
1:4:497:ASN:N	1:4:498:SER:HB2	2.28	0.47
1:5:245:ARG:CZ	1:5:366:PRO:HA	2.43	0.47
1:5:452:SER:HA	1:5:457:GLN:HG3	1.97	0.47
1:6:607:GLN:NE2	1:7:625:ASP:OD1	2.48	0.47
1:7:557:VAL:HG23	1:7:559:ILE:HG13	1.96	0.47
1:8:343:PHE:HD1	1:8:344:THR:H	1.61	0.47
1:8:557:VAL:HG23	1:8:559:ILE:HG13	1.96	0.47
1:A:444:TYR:HD1	1:A:445:LEU:H	1.62	0.47
1:A:462:PHE:HE2	1:G:554:ILE:HG22	1.80	0.47
1:B:308:PRO:HD3	1:B:637:PHE:HE2	1.77	0.47
1:B:424:TYR:HA	1:B:731:LEU:O	2.14	0.47
1:C:452:SER:OG	1:C:456:THR:O	2.27	0.47
1:D:382:ASN:CG	1:D:383:GLY:H	2.22	0.47
1:D:557:VAL:HG23	1:D:559:ILE:HG13	1.96	0.47
1:E:246:THR:HG23	1:E:369:VAL:HG23	1.96	0.47
1:E:557:VAL:HG23	1:E:559:ILE:HG13	1.96	0.47
1:E:607:GLN:NE2	1:Q:625:ASP:OD1	2.48	0.47
1:F:382:ASN:CG	1:F:383:GLY:H	2.22	0.47
1:F:424:TYR:HA	1:F:731:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:259:GLN:NE2	1:G:273:PHE:HE1	2.11	0.47
1:G:449:ASN:HB2	1:I:498:SER:C	2.39	0.47
1:I:396:GLU:OE1	1:I:396:GLU:N	2.47	0.47
1:I:424:TYR:HA	1:I:731:LEU:O	2.14	0.47
1:K:382:ASN:CG	1:K:383:GLY:H	2.22	0.47
1:K:557:VAL:HG23	1:K:559:ILE:HG13	1.96	0.47
1:L:557:VAL:HG23	1:L:559:ILE:HG13	1.96	0.47
1:M:288:HIS:HE2	1:M:614:GLN:HB3	1.78	0.47
1:P:343:PHE:HD1	1:P:344:THR:H	1.61	0.47
1:Q:306:PHE:HA	1:Q:686:LEU:HA	1.95	0.47
1:Q:684:TRP:N	1:Q:684:TRP:CD1	2.81	0.47
1:R:526:HIS:CE1	1:R:531:GLU:HG3	2.50	0.47
1:S:557:VAL:O	1:S:558:MET:HB2	2.13	0.47
1:S:684:TRP:N	1:S:684:TRP:CD1	2.81	0.47
1:T:449:ASN:HB2	1:d:498:SER:C	2.40	0.47
1:T:557:VAL:HG23	1:T:559:ILE:HG13	1.96	0.47
1:V:382:ASN:CG	1:V:383:GLY:H	2.22	0.47
1:V:398:PHE:CD1	1:V:398:PHE:N	2.81	0.47
1:V:429:SER:OG	1:V:431:ASP:OD1	2.18	0.47
1:V:452:SER:HA	1:V:457:GLN:HG3	1.97	0.47
1:V:526:HIS:CE1	1:V:531:GLU:HG3	2.50	0.47
1:X:288:HIS:HE2	1:X:614:GLN:HB3	1.78	0.47
1:X:625:ASP:OD1	1:e:607:GLN:NE2	2.47	0.47
1:Z:526:HIS:CE1	1:Z:531:GLU:HG3	2.50	0.47
1:b:268:ASN:HA	1:b:271:HIS:CD2	2.49	0.47
1:b:308:PRO:HD3	1:b:637:PHE:HE2	1.77	0.47
1:c:526:HIS:CE1	1:c:531:GLU:HG3	2.50	0.47
1:e:557:VAL:HG23	1:e:559:ILE:HG13	1.96	0.47
1:f:347:GLU:OE1	1:f:347:GLU:N	2.41	0.47
1:f:557:VAL:HG23	1:f:559:ILE:HG13	1.96	0.47
1:g:259:GLN:NE2	1:g:273:PHE:HE1	2.11	0.47
1:g:526:HIS:CE1	1:g:531:GLU:HG3	2.50	0.47
1:h:288:HIS:HE2	1:h:614:GLN:HB3	1.78	0.47
1:h:452:SER:HA	1:h:457:GLN:HG3	1.97	0.47
1:h:526:HIS:CE1	1:h:531:GLU:HG3	2.50	0.47
1:j:262:SER:N	1:j:272:TYR:O	2.46	0.47
1:k:246:THR:HG23	1:k:369:VAL:HG23	1.96	0.47
1:k:424:TYR:HA	1:k:731:LEU:O	2.14	0.47
1:k:526:HIS:CE1	1:k:531:GLU:HG3	2.50	0.47
1:k:711:ASP:O	1:k:713:THR:N	2.46	0.47
1:l:288:HIS:HE2	1:l:614:GLN:HB3	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:382:ASN:CG	1:l:383:GLY:H	2.22	0.47
1:n:268:ASN:HA	1:n:271:HIS:CD2	2.49	0.47
1:q:545:GLN:OE1	1:q:545:GLN:N	2.34	0.47
1:r:497:ASN:N	1:r:498:SER:HB2	2.28	0.47
1:t:306:PHE:HA	1:t:686:LEU:HA	1.95	0.47
1:u:684:TRP:CD1	1:u:684:TRP:N	2.81	0.47
1:v:557:VAL:HG23	1:v:559:ILE:HG13	1.96	0.47
1:w:557:VAL:HG23	1:w:559:ILE:HG13	1.96	0.47
1:w:625:ASP:OD1	1:y:607:GLN:NE2	2.48	0.47
1:y:398:PHE:N	1:y:398:PHE:CD1	2.81	0.47
1:z:306:PHE:HA	1:z:686:LEU:HA	1.95	0.47
1:1:431:ASP:OD1	1:1:432:ALA:N	2.45	0.47
1:2:396:GLU:OE1	1:2:396:GLU:N	2.47	0.47
1:3:255:HIS:ND1	1:3:652:PRO:HG3	2.28	0.47
1:5:306:PHE:HA	1:5:686:LEU:HA	1.95	0.47
1:5:625:ASP:OD1	1:7:607:GLN:NE2	2.48	0.47
1:5:684:TRP:N	1:5:684:TRP:CD1	2.81	0.47
1:6:288:HIS:HE2	1:6:614:GLN:HB3	1.78	0.47
1:7:246:THR:HG23	1:7:369:VAL:HG23	1.96	0.47
1:7:255:HIS:ND1	1:7:652:PRO:HG3	2.28	0.47
1:B:268:ASN:HA	1:B:271:HIS:CD2	2.49	0.47
1:C:247:TRP:NE1	1:C:677:GLN:O	2.34	0.47
1:D:526:HIS:CE1	1:D:531:GLU:HG3	2.50	0.47
1:E:625:ASP:OD1	1:F:607:GLN:NE2	2.48	0.47
1:F:557:VAL:HG23	1:F:559:ILE:HG13	1.96	0.47
1:H:444:TYR:HD1	1:H:445:LEU:H	1.62	0.47
1:H:557:VAL:HG23	1:H:559:ILE:HG13	1.96	0.47
1:H:581:THR:N	1:H:591:ALA:O	2.37	0.47
1:I:526:HIS:CE1	1:I:531:GLU:HG3	2.50	0.47
1:J:424:TYR:HA	1:J:731:LEU:O	2.14	0.47
1:J:526:HIS:CE1	1:J:531:GLU:HG3	2.50	0.47
1:K:526:HIS:CE1	1:K:531:GLU:HG3	2.50	0.47
1:N:398:PHE:CD1	1:N:398:PHE:N	2.81	0.47
1:P:452:SER:HA	1:P:457:GLN:HG3	1.97	0.47
1:Q:452:SER:HA	1:Q:457:GLN:HG3	1.97	0.47
1:R:306:PHE:HA	1:R:686:LEU:HA	1.95	0.47
1:R:607:GLN:NE2	1:S:625:ASP:OD1	2.48	0.47
1:S:482:CYS:HA	1:S:523:MET:HE1	1.95	0.47
1:T:396:GLU:OE1	1:T:396:GLU:N	2.47	0.47
1:T:444:TYR:HD1	1:T:445:LEU:H	1.62	0.47
1:V:424:TYR:HA	1:V:731:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:607:GLN:NE2	1:e:625:ASP:OD1	2.48	0.47
1:Y:557:VAL:HG23	1:Y:559:ILE:HG13	1.96	0.47
1:c:462:PHE:HE2	1:o:554:ILE:HG22	1.80	0.47
1:c:553:ASP:OD1	1:c:554:ILE:N	2.45	0.47
1:d:343:PHE:HD1	1:d:344:THR:H	1.61	0.47
1:d:391:SER:OG	1:d:392:PHE:N	2.44	0.47
1:f:246:THR:HG23	1:f:369:VAL:HG23	1.96	0.47
1:g:625:ASP:OD1	1:h:607:GLN:NE2	2.47	0.47
1:h:255:HIS:ND1	1:h:652:PRO:HG3	2.28	0.47
1:h:711:ASP:O	1:h:713:THR:N	2.46	0.47
1:i:396:GLU:OE1	1:i:396:GLU:N	2.47	0.47
1:i:497:ASN:N	1:i:498:SER:HB2	2.28	0.47
1:k:255:HIS:ND1	1:k:652:PRO:HG3	2.28	0.47
1:l:424:TYR:HA	1:l:731:LEU:O	2.14	0.47
1:m:452:SER:OG	1:m:456:THR:O	2.27	0.47
1:p:482:CYS:HA	1:p:523:MET:HE1	1.96	0.47
1:p:526:HIS:CE1	1:p:531:GLU:HG3	2.50	0.47
1:q:474:SER:N	1:r:518:ASN:HD22	2.13	0.47
1:t:262:SER:N	1:t:272:TYR:O	2.46	0.47
1:t:526:HIS:CE1	1:t:531:GLU:HG3	2.50	0.47
1:t:607:GLN:NE2	1:u:625:ASP:OD1	2.48	0.47
1:u:582:ASN:OD1	1:u:591:ALA:N	2.35	0.47
1:v:444:TYR:HD1	1:v:445:LEU:H	1.62	0.47
1:w:518:ASN:HD22	1:y:474:SER:N	2.13	0.47
1:x:288:HIS:HE2	1:x:614:GLN:HB3	1.78	0.47
1:y:382:ASN:CG	1:y:383:GLY:H	2.22	0.47
1:z:255:HIS:ND1	1:z:652:PRO:HG3	2.28	0.47
1:1:396:GLU:OE1	1:1:396:GLU:N	2.47	0.47
1:1:452:SER:HA	1:1:457:GLN:HG3	1.97	0.47
1:6:382:ASN:CG	1:6:383:GLY:H	2.22	0.47
1:B:396:GLU:OE1	1:B:396:GLU:N	2.47	0.47
1:B:607:GLN:NE2	1:J:625:ASP:OD1	2.47	0.47
1:D:518:ASN:HD22	1:P:474:SER:N	2.13	0.47
1:E:382:ASN:CG	1:E:383:GLY:H	2.22	0.47
1:G:482:CYS:HA	1:G:523:MET:HE1	1.96	0.47
1:G:526:HIS:CE1	1:G:531:GLU:HG3	2.50	0.47
1:G:553:ASP:OD1	1:G:554:ILE:N	2.45	0.47
1:H:262:SER:N	1:H:272:TYR:O	2.46	0.47
1:I:482:CYS:HA	1:I:523:MET:HE1	1.96	0.47
1:K:518:ASN:HD22	1:8:474:SER:N	2.12	0.47
1:M:424:TYR:HA	1:M:731:LEU:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:526:HIS:CE1	1:M:531:GLU:HG3	2.50	0.47
1:M:625:ASP:OD1	1:b:607:GLN:NE2	2.48	0.47
1:N:268:ASN:HA	1:N:271:HIS:CD2	2.49	0.47
1:N:382:ASN:CG	1:N:383:GLY:H	2.22	0.47
1:N:607:GLN:NE2	1:P:625:ASP:OD1	2.47	0.47
1:O:381:ASN:OD1	1:O:382:ASN:N	2.47	0.47
1:P:424:TYR:HA	1:P:731:LEU:O	2.14	0.47
1:P:444:TYR:HD1	1:P:445:LEU:H	1.62	0.47
1:P:544:LYS:N	1:P:556:LYS:O	2.48	0.47
1:Q:246:THR:HG23	1:Q:369:VAL:HG23	1.96	0.47
1:S:259:GLN:NE2	1:S:273:PHE:HE1	2.11	0.47
1:T:347:GLU:OE1	1:T:347:GLU:N	2.41	0.47
1:U:444:TYR:HD1	1:U:445:LEU:H	1.62	0.47
1:V:474:SER:N	1:e:518:ASN:HD22	2.13	0.47
1:Y:246:THR:HG23	1:Y:369:VAL:HG23	1.96	0.47
1:Z:607:GLN:NE2	1:4:625:ASP:OD1	2.47	0.47
1:a:382:ASN:CG	1:a:383:GLY:H	2.22	0.47
1:b:396:GLU:OE1	1:b:396:GLU:N	2.47	0.47
1:c:557:VAL:HG23	1:c:559:ILE:HG13	1.96	0.47
1:d:259:GLN:NE2	1:d:273:PHE:HE1	2.11	0.47
1:f:262:SER:N	1:f:272:TYR:O	2.46	0.47
1:g:382:ASN:CG	1:g:383:GLY:H	2.22	0.47
1:g:396:GLU:OE1	1:g:396:GLU:N	2.47	0.47
1:g:497:ASN:N	1:g:498:SER:HB2	2.28	0.47
1:j:557:VAL:HG23	1:j:559:ILE:HG13	1.96	0.47
1:j:607:GLN:NE2	1:k:625:ASP:OD1	2.48	0.47
1:k:391:SER:OG	1:k:392:PHE:N	2.44	0.47
1:n:288:HIS:HE2	1:n:614:GLN:HB3	1.78	0.47
1:o:462:PHE:HE2	1:p:554:ILE:HG22	1.80	0.47
1:p:553:ASP:OD1	1:p:554:ILE:N	2.45	0.47
1:r:288:HIS:HE2	1:r:614:GLN:HB3	1.78	0.47
1:r:308:PRO:HD3	1:r:637:PHE:HE2	1.77	0.47
1:r:557:VAL:HG23	1:r:559:ILE:HG13	1.96	0.47
1:s:246:THR:HG23	1:s:369:VAL:HG23	1.96	0.47
1:s:557:VAL:HG23	1:s:559:ILE:HG13	1.96	0.47
1:t:545:GLN:OE1	1:t:545:GLN:N	2.34	0.47
1:u:482:CYS:HA	1:u:523:MET:HE1	1.95	0.47
1:v:452:SER:OG	1:v:456:THR:O	2.27	0.47
1:w:607:GLN:NE2	1:x:625:ASP:OD1	2.48	0.47
1:y:452:SER:HA	1:y:457:GLN:HG3	1.97	0.47
1:y:526:HIS:CE1	1:y:531:GLU:HG3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:424:TYR:HA	1:z:731:LEU:O	2.14	0.47
1:2:259:GLN:NE2	1:2:273:PHE:HE1	2.11	0.47
1:2:391:SER:OG	1:2:392:PHE:N	2.44	0.47
1:5:482:CYS:HA	1:5:523:MET:HE1	1.95	0.47
1:7:382:ASN:CG	1:7:383:GLY:H	2.22	0.47
1:8:246:THR:HG23	1:8:369:VAL:HG23	1.96	0.47
1:8:444:TYR:HD1	1:8:445:LEU:H	1.62	0.47
1:8:452:SER:HA	1:8:457:GLN:HG3	1.97	0.47
1:A:474:SER:N	1:G:518:ASN:HD22	2.12	0.47
1:A:498:SER:C	1:I:449:ASN:HB2	2.40	0.47
1:A:526:HIS:CE1	1:A:531:GLU:HG3	2.50	0.47
1:A:581:THR:OG1	1:A:592:THR:O	2.32	0.47
1:B:246:THR:HG23	1:B:369:VAL:HG23	1.96	0.47
1:B:557:VAL:HG23	1:B:559:ILE:HG13	1.96	0.47
1:D:343:PHE:HD1	1:D:344:THR:H	1.61	0.47
1:D:396:GLU:OE1	1:D:396:GLU:N	2.47	0.47
1:D:444:TYR:HD1	1:D:445:LEU:H	1.62	0.47
1:D:474:SER:N	1:N:518:ASN:HD22	2.13	0.47
1:D:581:THR:OG1	1:D:592:THR:O	2.32	0.47
1:E:364:PRO:O	1:E:365:PHE:HB3	2.15	0.47
1:E:474:SER:N	1:Q:518:ASN:HD22	2.13	0.47
1:F:268:ASN:HA	1:F:271:HIS:CD2	2.49	0.47
1:F:288:HIS:HE2	1:F:614:GLN:HB3	1.78	0.47
1:G:396:GLU:OE1	1:G:396:GLU:N	2.47	0.47
1:G:452:SER:OG	1:G:456:THR:O	2.27	0.47
1:G:544:LYS:N	1:G:556:LYS:O	2.48	0.47
1:G:557:VAL:HG23	1:G:559:ILE:HG13	1.96	0.47
1:H:364:PRO:O	1:H:365:PHE:HB3	2.15	0.47
1:H:452:SER:HA	1:H:457:GLN:HG3	1.97	0.47
1:H:607:GLN:NE2	1:W:625:ASP:OD1	2.48	0.47
1:I:553:ASP:OD1	1:I:554:ILE:N	2.46	0.47
1:I:557:VAL:HG23	1:I:559:ILE:HG13	1.96	0.47
1:K:306:PHE:HA	1:K:686:LEU:HA	1.95	0.47
1:K:343:PHE:HD1	1:K:344:THR:H	1.61	0.47
1:K:396:GLU:OE1	1:K:396:GLU:N	2.47	0.47
1:K:474:SER:N	1:a:518:ASN:HD22	2.13	0.47
1:L:444:TYR:CD1	1:L:445:LEU:N	2.83	0.47
1:M:544:LYS:N	1:M:556:LYS:O	2.48	0.47
1:M:557:VAL:O	1:M:558:MET:HB2	2.13	0.47
1:O:364:PRO:O	1:O:365:PHE:HB3	2.15	0.47
1:O:544:LYS:N	1:O:556:LYS:O	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:246:THR:HG23	1:P:369:VAL:HG23	1.96	0.47
1:P:526:HIS:CE1	1:P:531:GLU:HG3	2.50	0.47
1:Q:382:ASN:CG	1:Q:383:GLY:H	2.22	0.47
1:Q:482:CYS:HA	1:Q:523:MET:HE1	1.96	0.47
1:R:482:CYS:HA	1:R:523:MET:HE1	1.96	0.47
1:T:246:THR:HG23	1:T:369:VAL:HG23	1.96	0.47
1:U:482:CYS:HA	1:U:523:MET:HE1	1.96	0.47
1:V:364:PRO:O	1:V:365:PHE:HB3	2.15	0.47
1:V:544:LYS:N	1:V:556:LYS:O	2.48	0.47
1:W:246:THR:HG23	1:W:369:VAL:HG23	1.96	0.47
1:W:259:GLN:NE2	1:W:273:PHE:HE1	2.11	0.47
1:W:396:GLU:OE1	1:W:396:GLU:N	2.47	0.47
1:W:444:TYR:HD1	1:W:445:LEU:H	1.62	0.47
1:W:545:GLN:OE1	1:W:545:GLN:N	2.34	0.47
1:W:557:VAL:HG23	1:W:559:ILE:HG13	1.95	0.47
1:X:452:SER:HA	1:X:457:GLN:HG3	1.97	0.47
1:X:554:ILE:HG22	1:e:462:PHE:HE2	1.80	0.47
1:Y:288:HIS:HE2	1:Y:614:GLN:HB3	1.78	0.47
1:Y:308:PRO:HD3	1:Y:637:PHE:HE2	1.77	0.47
1:Z:398:PHE:CD1	1:Z:398:PHE:N	2.81	0.47
1:Z:474:SER:N	1:4:518:ASN:HD22	2.13	0.47
1:Z:518:ASN:HD22	1:3:474:SER:N	2.13	0.47
1:a:268:ASN:HA	1:a:271:HIS:CD2	2.49	0.47
1:a:607:GLN:NE2	1:8:625:ASP:OD1	2.47	0.47
1:b:246:THR:HG23	1:b:369:VAL:HG23	1.96	0.47
1:b:684:TRP:CD1	1:b:684:TRP:N	2.81	0.47
1:c:343:PHE:HD1	1:c:344:THR:H	1.61	0.47
1:e:445:LEU:HD23	1:e:446:SER:O	2.15	0.47
1:e:544:LYS:N	1:e:556:LYS:O	2.48	0.47
1:f:398:PHE:N	1:f:398:PHE:CD1	2.81	0.47
1:f:474:SER:N	1:h:518:ASN:HD22	2.13	0.47
1:f:544:LYS:N	1:f:556:LYS:O	2.48	0.47
1:f:607:GLN:NE2	1:h:625:ASP:OD1	2.48	0.47
1:g:246:THR:HG23	1:g:369:VAL:HG23	1.96	0.47
1:h:391:SER:OG	1:h:392:PHE:N	2.44	0.47
1:h:429:SER:OG	1:h:431:ASP:OD1	2.18	0.47
1:i:246:THR:HG23	1:i:369:VAL:HG23	1.96	0.47
1:i:382:ASN:CG	1:i:383:GLY:H	2.22	0.47
1:i:449:ASN:O	1:i:450:THR:OG1	2.20	0.47
1:i:474:SER:N	1:j:518:ASN:HD22	2.13	0.47
1:j:246:THR:HG23	1:j:369:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:474:SER:N	1:k:518:ASN:HD22	2.13	0.47
1:j:544:LYS:N	1:j:556:LYS:O	2.48	0.47
1:m:452:SER:HA	1:m:457:GLN:HG3	1.97	0.47
1:m:474:SER:N	1:n:518:ASN:HD22	2.13	0.47
1:n:382:ASN:CG	1:n:383:GLY:H	2.22	0.47
1:n:452:SER:HA	1:n:457:GLN:HG3	1.97	0.47
1:n:544:LYS:N	1:n:556:LYS:O	2.48	0.47
1:n:684:TRP:N	1:n:684:TRP:CD1	2.81	0.47
1:o:398:PHE:N	1:o:398:PHE:CD1	2.81	0.47
1:o:526:HIS:CE1	1:o:531:GLU:HG3	2.50	0.47
1:p:396:GLU:OE1	1:p:396:GLU:N	2.47	0.47
1:p:452:SER:OG	1:p:456:THR:O	2.27	0.47
1:p:544:LYS:N	1:p:556:LYS:O	2.48	0.47
1:p:557:VAL:HG23	1:p:559:ILE:HG13	1.96	0.47
1:q:246:THR:HG23	1:q:369:VAL:HG23	1.96	0.47
1:q:444:TYR:HD1	1:q:445:LEU:H	1.62	0.47
1:s:262:SER:N	1:s:272:TYR:O	2.46	0.47
1:s:364:PRO:O	1:s:365:PHE:HB3	2.15	0.47
1:s:444:TYR:HD1	1:s:445:LEU:H	1.62	0.47
1:t:382:ASN:CG	1:t:383:GLY:H	2.22	0.47
1:t:445:LEU:HD23	1:t:446:SER:O	2.15	0.47
1:t:474:SER:N	1:u:518:ASN:HD22	2.13	0.47
1:t:482:CYS:HA	1:t:523:MET:HE1	1.95	0.47
1:t:497:ASN:N	1:t:498:SER:HB2	2.28	0.47
1:u:246:THR:HG23	1:u:369:VAL:HG23	1.96	0.47
1:u:259:GLN:NE2	1:u:273:PHE:HE1	2.11	0.47
1:u:462:PHE:HE2	1:v:554:ILE:HG22	1.80	0.47
1:v:482:CYS:HA	1:v:523:MET:HE1	1.95	0.47
1:w:326:ASN:O	1:w:329:THR:OG1	2.19	0.47
1:w:462:PHE:HE2	1:x:554:ILE:HG22	1.80	0.47
1:w:544:LYS:N	1:w:556:LYS:O	2.48	0.47
1:x:444:TYR:CD1	1:x:445:LEU:N	2.83	0.47
1:x:452:SER:HA	1:x:457:GLN:HG3	1.97	0.47
1:y:544:LYS:N	1:y:556:LYS:O	2.48	0.47
1:1:246:THR:HG23	1:1:369:VAL:HG23	1.96	0.47
1:1:444:TYR:HD1	1:1:445:LEU:H	1.62	0.47
1:2:343:PHE:HD1	1:2:344:THR:H	1.61	0.47
1:2:445:LEU:HD23	1:2:446:SER:O	2.15	0.47
1:3:381:ASN:OD1	1:3:382:ASN:N	2.47	0.47
1:3:544:LYS:N	1:3:556:LYS:O	2.48	0.47
1:4:382:ASN:CG	1:4:383:GLY:H	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:452:SER:HA	1:4:457:GLN:HG3	1.97	0.47
1:4:544:LYS:N	1:4:556:LYS:O	2.48	0.47
1:5:246:THR:HG23	1:5:369:VAL:HG23	1.96	0.47
1:5:382:ASN:CG	1:5:383:GLY:H	2.22	0.47
1:5:518:ASN:HD22	1:7:474:SER:N	2.13	0.47
1:6:268:ASN:HA	1:6:271:HIS:CD2	2.49	0.47
1:6:364:PRO:O	1:6:365:PHE:HB3	2.15	0.47
1:6:557:VAL:HG23	1:6:559:ILE:HG13	1.96	0.47
1:6:582:ASN:OD1	1:6:591:ALA:N	2.35	0.47
1:7:259:GLN:NE2	1:7:273:PHE:HE1	2.11	0.47
1:7:444:TYR:CD1	1:7:445:LEU:N	2.83	0.47
1:8:424:TYR:HA	1:8:731:LEU:O	2.14	0.47
1:8:544:LYS:N	1:8:556:LYS:O	2.48	0.47
1:A:398:PHE:N	1:A:398:PHE:CD1	2.81	0.47
1:B:262:SER:N	1:B:272:TYR:O	2.46	0.47
1:B:445:LEU:HD23	1:B:446:SER:O	2.15	0.47
1:B:684:TRP:N	1:B:684:TRP:CD1	2.81	0.47
1:C:246:THR:HG23	1:C:369:VAL:HG23	1.96	0.47
1:C:444:TYR:CD1	1:C:445:LEU:N	2.83	0.47
1:C:452:SER:HA	1:C:457:GLN:HG3	1.97	0.47
1:C:544:LYS:N	1:C:556:LYS:O	2.48	0.47
1:C:684:TRP:CD1	1:C:684:TRP:N	2.81	0.47
1:D:452:SER:HA	1:D:457:GLN:HG3	1.97	0.47
1:E:259:GLN:NE2	1:E:273:PHE:HE1	2.11	0.47
1:E:444:TYR:CD1	1:E:445:LEU:N	2.83	0.47
1:F:364:PRO:O	1:F:365:PHE:HB3	2.15	0.47
1:F:544:LYS:N	1:F:556:LYS:O	2.48	0.47
1:G:452:SER:HA	1:G:457:GLN:HG3	1.97	0.47
1:H:246:THR:HG23	1:H:369:VAL:HG23	1.96	0.47
1:H:444:TYR:CD1	1:H:445:LEU:N	2.83	0.47
1:H:544:LYS:N	1:H:556:LYS:O	2.48	0.47
1:I:445:LEU:HD23	1:I:446:SER:O	2.15	0.47
1:J:452:SER:HA	1:J:457:GLN:HG3	1.97	0.47
1:J:544:LYS:N	1:J:556:LYS:O	2.48	0.47
1:L:246:THR:HG23	1:L:369:VAL:HG23	1.96	0.47
1:L:452:SER:HA	1:L:457:GLN:HG3	1.97	0.47
1:L:544:LYS:N	1:L:556:LYS:O	2.48	0.47
1:M:396:GLU:OE1	1:M:396:GLU:N	2.47	0.47
1:M:452:SER:HA	1:M:457:GLN:HG3	1.97	0.47
1:N:462:PHE:HE2	1:P:554:ILE:HG22	1.80	0.47
1:O:246:THR:HG23	1:O:369:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:474:SER:N	1:m:518:ASN:HD22	2.13	0.47
1:Q:268:ASN:HA	1:Q:271:HIS:CD2	2.49	0.47
1:R:382:ASN:CG	1:R:383:GLY:H	2.22	0.47
1:R:445:LEU:HD23	1:R:446:SER:O	2.15	0.47
1:R:474:SER:N	1:S:518:ASN:HD22	2.13	0.47
1:R:497:ASN:N	1:R:498:SER:HB2	2.28	0.47
1:S:246:THR:HG23	1:S:369:VAL:HG23	1.96	0.47
1:S:364:PRO:O	1:S:365:PHE:HB3	2.15	0.47
1:S:444:TYR:CD1	1:S:445:LEU:N	2.83	0.47
1:S:444:TYR:HD1	1:S:445:LEU:H	1.62	0.47
1:S:607:GLN:NE2	1:U:625:ASP:OD1	2.48	0.47
1:T:386:ALA:O	1:i:706:LYS:HD2	2.15	0.47
1:T:452:SER:HA	1:T:457:GLN:HG3	1.97	0.47
1:U:268:ASN:HA	1:U:271:HIS:CD2	2.49	0.47
1:U:445:LEU:HD23	1:U:446:SER:O	2.15	0.47
1:U:452:SER:OG	1:U:456:THR:O	2.27	0.47
1:W:474:SER:N	1:Y:518:ASN:HD22	2.13	0.47
1:X:246:THR:HG23	1:X:369:VAL:HG23	1.96	0.47
1:Z:444:TYR:CD1	1:Z:445:LEU:N	2.83	0.47
1:Z:544:LYS:N	1:Z:556:LYS:O	2.48	0.47
1:a:462:PHE:HE2	1:8:554:ILE:HG22	1.80	0.47
1:b:262:SER:N	1:b:272:TYR:O	2.46	0.47
1:b:445:LEU:HD23	1:b:446:SER:O	2.15	0.47
1:b:557:VAL:HG23	1:b:559:ILE:HG13	1.96	0.47
1:c:259:GLN:NE2	1:c:273:PHE:HE1	2.11	0.47
1:c:445:LEU:HD23	1:c:446:SER:O	2.15	0.47
1:d:445:LEU:HD23	1:d:446:SER:O	2.15	0.47
1:g:452:SER:OG	1:g:456:THR:O	2.27	0.47
1:i:452:SER:OG	1:i:456:THR:O	2.27	0.47
1:i:625:ASP:OD1	1:k:607:GLN:NE2	2.47	0.47
1:j:398:PHE:N	1:j:398:PHE:CD1	2.81	0.47
1:l:364:PRO:O	1:l:365:PHE:HB3	2.15	0.47
1:m:326:ASN:O	1:m:329:THR:OG1	2.19	0.47
1:m:398:PHE:CD1	1:m:398:PHE:N	2.81	0.47
1:m:444:TYR:CD1	1:m:445:LEU:N	2.83	0.47
1:m:544:LYS:N	1:m:556:LYS:O	2.48	0.47
1:q:557:VAL:HG23	1:q:559:ILE:HG13	1.96	0.47
1:r:246:THR:HG23	1:r:369:VAL:HG23	1.96	0.47
1:r:444:TYR:HD1	1:r:445:LEU:H	1.62	0.47
1:s:444:TYR:CD1	1:s:445:LEU:N	2.83	0.47
1:s:526:HIS:CE1	1:s:531:GLU:HG3	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:658:SER:O	1:s:659:THR:OG1	2.27	0.47
1:t:444:TYR:CD1	1:t:445:LEU:N	2.83	0.47
1:u:364:PRO:O	1:u:365:PHE:HB3	2.15	0.47
1:u:424:TYR:HA	1:u:731:LEU:O	2.14	0.47
1:u:444:TYR:CD1	1:u:445:LEU:N	2.83	0.47
1:u:444:TYR:HD1	1:u:445:LEU:H	1.62	0.47
1:v:268:ASN:HA	1:v:271:HIS:CD2	2.49	0.47
1:v:378:LEU:O	1:v:379:THR:OG1	2.26	0.47
1:v:445:LEU:HD23	1:v:446:SER:O	2.15	0.47
1:w:445:LEU:HD23	1:w:446:SER:O	2.15	0.47
1:w:554:ILE:HG22	1:y:462:PHE:HE2	1.80	0.47
1:x:246:THR:HG23	1:x:369:VAL:HG23	1.96	0.47
1:z:444:TYR:HD1	1:z:445:LEU:H	1.62	0.47
1:1:347:GLU:OE1	1:1:347:GLU:N	2.41	0.47
1:1:424:TYR:HA	1:1:731:LEU:O	2.14	0.47
1:3:364:PRO:O	1:3:365:PHE:HB3	2.15	0.47
1:4:288:HIS:HE2	1:4:614:GLN:HB3	1.78	0.47
1:5:462:PHE:HE2	1:6:554:ILE:HG22	1.80	0.47
1:5:526:HIS:CE1	1:5:531:GLU:HG3	2.50	0.47
1:6:544:LYS:N	1:6:556:LYS:O	2.48	0.47
1:7:364:PRO:O	1:7:365:PHE:HB3	2.15	0.47
1:7:445:LEU:HD23	1:7:446:SER:O	2.15	0.47
1:8:526:HIS:CE1	1:8:531:GLU:HG3	2.50	0.47
1:B:462:PHE:HE2	1:J:554:ILE:HG22	1.80	0.47
1:D:306:PHE:HA	1:D:686:LEU:HA	1.95	0.47
1:E:445:LEU:HD23	1:E:446:SER:O	2.15	0.47
1:F:554:ILE:HG22	1:Q:462:PHE:HE2	1.80	0.47
1:H:526:HIS:CE1	1:H:531:GLU:HG3	2.50	0.47
1:H:722:GLU:HG2	1:H:722:GLU:O	2.15	0.47
1:I:259:GLN:NE2	1:I:273:PHE:HE1	2.11	0.47
1:J:364:PRO:O	1:J:365:PHE:HB3	2.15	0.47
1:J:398:PHE:CD1	1:J:398:PHE:N	2.81	0.47
1:J:557:VAL:O	1:J:558:MET:HB2	2.13	0.47
1:K:364:PRO:O	1:K:365:PHE:HB3	2.15	0.47
1:K:444:TYR:CD1	1:K:445:LEU:N	2.83	0.47
1:K:444:TYR:HD1	1:K:445:LEU:H	1.62	0.47
1:L:684:TRP:N	1:L:684:TRP:CD1	2.81	0.47
1:M:398:PHE:N	1:M:398:PHE:CD1	2.81	0.47
1:N:444:TYR:CD1	1:N:445:LEU:N	2.83	0.47
1:O:553:ASP:OD1	1:O:554:ILE:N	2.46	0.47
1:P:581:THR:N	1:P:591:ALA:O	2.37	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:526:HIS:CE1	1:Q:531:GLU:HG3	2.50	0.47
1:Q:544:LYS:N	1:Q:556:LYS:O	2.48	0.47
1:Q:682:ILE:O	1:Q:683:GLU:HB3	2.15	0.47
1:R:246:THR:HG23	1:R:369:VAL:HG23	1.96	0.47
1:R:444:TYR:CD1	1:R:445:LEU:N	2.83	0.47
1:R:682:ILE:O	1:R:683:GLU:HB3	2.15	0.47
1:S:462:PHE:HE2	1:U:554:ILE:HG22	1.80	0.47
1:S:544:LYS:N	1:S:556:LYS:O	2.48	0.47
1:T:424:TYR:HA	1:T:731:LEU:O	2.14	0.47
1:U:382:ASN:CG	1:U:383:GLY:H	2.22	0.47
1:U:722:GLU:HG2	1:U:722:GLU:O	2.15	0.47
1:V:462:PHE:HE2	1:e:554:ILE:HG22	1.80	0.47
1:X:444:TYR:CD1	1:X:445:LEU:N	2.83	0.47
1:X:526:HIS:CE1	1:X:531:GLU:HG3	2.50	0.47
1:Z:326:ASN:O	1:Z:329:THR:OG1	2.19	0.47
1:Z:452:SER:HA	1:Z:457:GLN:HG3	1.97	0.47
1:c:684:TRP:N	1:c:684:TRP:CD1	2.81	0.47
1:d:682:ILE:O	1:d:683:GLU:HB3	2.15	0.47
1:e:444:TYR:CD1	1:e:445:LEU:N	2.83	0.47
1:f:526:HIS:CE1	1:f:531:GLU:HG3	2.50	0.47
1:g:444:TYR:CD1	1:g:445:LEU:N	2.83	0.47
1:i:444:TYR:CD1	1:i:445:LEU:N	2.83	0.47
1:k:682:ILE:O	1:k:683:GLU:HB3	2.15	0.47
1:l:526:HIS:CE1	1:l:531:GLU:HG3	2.50	0.47
1:m:416:GLU:OE1	1:m:416:GLU:N	2.28	0.47
1:m:424:TYR:HA	1:m:731:LEU:O	2.14	0.47
1:n:246:THR:HG23	1:n:369:VAL:HG23	1.96	0.47
1:n:445:LEU:HD23	1:n:446:SER:O	2.15	0.47
1:o:382:ASN:CG	1:o:383:GLY:H	2.22	0.47
1:p:364:PRO:O	1:p:365:PHE:HB3	2.15	0.47
1:q:259:GLN:NE2	1:q:273:PHE:HE1	2.11	0.47
1:q:396:GLU:OE1	1:q:396:GLU:N	2.47	0.47
1:r:382:ASN:CG	1:r:383:GLY:H	2.22	0.47
1:r:722:GLU:HG2	1:r:722:GLU:O	2.15	0.47
1:s:452:SER:HA	1:s:457:GLN:HG3	1.97	0.47
1:s:544:LYS:N	1:s:556:LYS:O	2.48	0.47
1:s:722:GLU:HG2	1:s:722:GLU:O	2.15	0.47
1:u:544:LYS:N	1:u:556:LYS:O	2.48	0.47
1:u:607:GLN:NE2	1:v:625:ASP:OD1	2.48	0.47
1:v:288:HIS:HE2	1:v:614:GLN:HB3	1.78	0.47
1:w:682:ILE:O	1:w:683:GLU:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:255:HIS:ND1	1:x:652:PRO:HG3	2.28	0.47
1:x:364:PRO:O	1:x:365:PHE:HB3	2.15	0.47
1:x:444:TYR:HD1	1:x:445:LEU:H	1.62	0.47
1:x:526:HIS:CE1	1:x:531:GLU:HG3	2.49	0.47
1:y:364:PRO:O	1:y:365:PHE:HB3	2.15	0.47
1:z:445:LEU:HD23	1:z:446:SER:O	2.15	0.47
1:z:483:TYR:HE1	1:2:598:GLN:HE22	1.63	0.47
1:3:246:THR:HG23	1:3:369:VAL:HG23	1.96	0.47
1:3:482:CYS:HA	1:3:523:MET:HE1	1.95	0.47
1:3:553:ASP:OD1	1:3:554:ILE:N	2.45	0.47
1:3:625:ASP:OD1	1:4:607:GLN:NE2	2.47	0.47
1:4:445:LEU:HD23	1:4:446:SER:O	2.15	0.47
1:5:268:ASN:HA	1:5:271:HIS:CD2	2.49	0.47
1:5:424:TYR:HA	1:5:731:LEU:O	2.14	0.47
1:5:444:TYR:CD1	1:5:445:LEU:N	2.83	0.47
1:5:474:SER:N	1:6:518:ASN:HD22	2.13	0.47
1:A:382:ASN:CG	1:A:383:GLY:H	2.22	0.47
1:A:444:TYR:CD1	1:A:445:LEU:N	2.83	0.47
1:A:684:TRP:N	1:A:684:TRP:CD1	2.81	0.47
1:C:518:ASN:HD22	1:M:474:SER:N	2.13	0.47
1:C:526:HIS:CE1	1:C:531:GLU:HG3	2.50	0.47
1:C:607:GLN:NE2	1:b:625:ASP:OD1	2.47	0.47
1:C:682:ILE:O	1:C:683:GLU:HB3	2.15	0.47
1:D:364:PRO:O	1:D:365:PHE:HB3	2.15	0.47
1:D:444:TYR:CD1	1:D:445:LEU:N	2.83	0.47
1:D:554:ILE:HG22	1:P:462:PHE:HE2	1.80	0.47
1:E:462:PHE:HE2	1:Q:554:ILE:HG22	1.80	0.47
1:E:544:LYS:N	1:E:556:LYS:O	2.48	0.47
1:F:452:SER:HA	1:F:457:GLN:HG3	1.97	0.47
1:F:582:ASN:OD1	1:F:591:ALA:N	2.35	0.47
1:G:364:PRO:O	1:G:365:PHE:HB3	2.15	0.47
1:H:474:SER:N	1:W:518:ASN:HD22	2.13	0.47
1:I:343:PHE:HD1	1:I:344:THR:H	1.61	0.47
1:I:444:TYR:CD1	1:I:445:LEU:N	2.83	0.47
1:I:544:LYS:N	1:I:556:LYS:O	2.48	0.47
1:J:396:GLU:OE1	1:J:396:GLU:N	2.47	0.47
1:J:474:SER:N	1:L:518:ASN:HD22	2.13	0.47
1:K:452:SER:HA	1:K:457:GLN:HG3	1.97	0.47
1:K:554:ILE:HG22	1:8:462:PHE:HE2	1.80	0.47
1:K:581:THR:OG1	1:K:592:THR:O	2.32	0.47
1:M:364:PRO:O	1:M:365:PHE:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:554:ILE:HG22	1:b:462:PHE:HE2	1.80	0.47
1:M:733:ARG:HG2	1:M:734:ASN:O	2.15	0.47
1:N:557:VAL:HG23	1:N:559:ILE:HG13	1.96	0.47
1:N:682:ILE:O	1:N:683:GLU:HB3	2.15	0.47
1:O:382:ASN:CG	1:O:383:GLY:H	2.22	0.47
1:O:482:CYS:HA	1:O:523:MET:HE1	1.96	0.47
1:Q:424:TYR:HA	1:Q:731:LEU:O	2.14	0.47
1:Q:444:TYR:CD1	1:Q:445:LEU:N	2.83	0.47
1:R:424:TYR:HA	1:R:731:LEU:O	2.14	0.47
1:R:625:ASP:OD1	1:U:607:GLN:NE2	2.48	0.47
1:S:424:TYR:HA	1:S:731:LEU:O	2.14	0.47
1:S:526:HIS:CE1	1:S:531:GLU:HG3	2.50	0.47
1:S:557:VAL:HG23	1:S:559:ILE:HG13	1.96	0.47
1:T:526:HIS:CE1	1:T:531:GLU:HG3	2.50	0.47
1:U:288:HIS:HE2	1:U:614:GLN:HB3	1.78	0.47
1:U:526:HIS:CE1	1:U:531:GLU:HG3	2.50	0.47
1:W:398:PHE:N	1:W:398:PHE:CD1	2.81	0.47
1:X:444:TYR:HD1	1:X:445:LEU:H	1.62	0.47
1:X:544:LYS:N	1:X:556:LYS:O	2.48	0.47
1:X:722:GLU:HG2	1:X:722:GLU:O	2.15	0.47
1:Y:382:ASN:CG	1:Y:383:GLY:H	2.22	0.47
1:Y:444:TYR:HD1	1:Y:445:LEU:H	1.62	0.47
1:Y:682:ILE:O	1:Y:683:GLU:HB3	2.15	0.47
1:Y:722:GLU:HG2	1:Y:722:GLU:O	2.15	0.47
1:a:444:TYR:CD1	1:a:445:LEU:N	2.83	0.47
1:a:682:ILE:O	1:a:683:GLU:HB3	2.15	0.47
1:c:444:TYR:CD1	1:c:445:LEU:N	2.83	0.47
1:d:607:GLN:NE2	1:l:625:ASP:OD1	2.48	0.47
1:e:682:ILE:O	1:e:683:GLU:HB3	2.15	0.47
1:f:382:ASN:CG	1:f:383:GLY:H	2.22	0.47
1:f:722:GLU:HG2	1:f:722:GLU:O	2.15	0.47
1:g:544:LYS:N	1:g:556:LYS:O	2.48	0.47
1:i:544:LYS:N	1:i:556:LYS:O	2.48	0.47
1:i:547:SER:OG	1:k:443:TYR:OH	2.30	0.47
1:i:554:ILE:HG22	1:k:462:PHE:HE2	1.80	0.47
1:j:526:HIS:CE1	1:j:531:GLU:HG3	2.50	0.47
1:k:544:LYS:N	1:k:556:LYS:O	2.48	0.47
1:l:398:PHE:N	1:l:398:PHE:CD1	2.81	0.47
1:l:445:LEU:HD23	1:l:446:SER:O	2.15	0.47
1:n:424:TYR:HA	1:n:731:LEU:O	2.14	0.47
1:o:444:TYR:CD1	1:o:445:LEU:N	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:544:LYS:N	1:o:556:LYS:O	2.48	0.47
1:p:444:TYR:CD1	1:p:445:LEU:N	2.83	0.47
1:p:452:SER:HA	1:p:457:GLN:HG3	1.97	0.47
1:r:544:LYS:N	1:r:556:LYS:O	2.48	0.47
1:r:682:ILE:O	1:r:683:GLU:HB3	2.15	0.47
1:t:246:THR:HG23	1:t:369:VAL:HG23	1.96	0.47
1:t:682:ILE:O	1:t:683:GLU:HB3	2.15	0.47
1:u:445:LEU:HD23	1:u:446:SER:O	2.15	0.47
1:v:382:ASN:CG	1:v:383:GLY:H	2.22	0.47
1:v:444:TYR:CD1	1:v:445:LEU:N	2.83	0.47
1:v:722:GLU:HG2	1:v:722:GLU:O	2.15	0.47
1:w:474:SER:N	1:x:518:ASN:HD22	2.13	0.47
1:y:246:THR:HG23	1:y:369:VAL:HG23	1.96	0.47
1:z:364:PRO:O	1:z:365:PHE:HB3	2.15	0.47
1:z:526:HIS:CE1	1:z:531:GLU:HG3	2.50	0.47
1:2:544:LYS:N	1:2:556:LYS:O	2.48	0.47
1:2:682:ILE:O	1:2:683:GLU:HB3	2.15	0.47
1:3:382:ASN:CG	1:3:383:GLY:H	2.22	0.47
1:3:554:ILE:HG22	1:4:462:PHE:HE2	1.80	0.47
1:4:246:THR:HG23	1:4:369:VAL:HG23	1.96	0.47
1:4:424:TYR:HA	1:4:731:LEU:O	2.14	0.47
1:4:444:TYR:CD1	1:4:445:LEU:N	2.83	0.47
1:4:526:HIS:CE1	1:4:531:GLU:HG3	2.49	0.47
1:4:684:TRP:N	1:4:684:TRP:CD1	2.81	0.47
1:5:544:LYS:N	1:5:556:LYS:O	2.48	0.47
1:5:554:ILE:HG22	1:7:462:PHE:HE2	1.80	0.47
1:5:682:ILE:O	1:5:683:GLU:HB3	2.15	0.47
1:7:378:LEU:O	1:7:379:THR:OG1	2.26	0.47
1:A:452:SER:HA	1:A:457:GLN:HG3	1.97	0.46
1:A:544:LYS:N	1:A:556:LYS:O	2.48	0.46
1:B:364:PRO:O	1:B:365:PHE:HB3	2.15	0.46
1:B:554:ILE:HG22	1:L:462:PHE:HE2	1.80	0.46
1:B:625:ASP:OD1	1:L:607:GLN:NE2	2.47	0.46
1:C:364:PRO:O	1:C:365:PHE:HB3	2.15	0.46
1:C:462:PHE:HE2	1:b:554:ILE:HG22	1.80	0.46
1:E:518:ASN:HD22	1:F:474:SER:N	2.13	0.46
1:E:526:HIS:CE1	1:E:531:GLU:HG3	2.50	0.46
1:E:553:ASP:OD1	1:E:554:ILE:N	2.45	0.46
1:F:518:ASN:HD22	1:Q:474:SER:N	2.13	0.46
1:F:722:GLU:O	1:F:722:GLU:HG2	2.15	0.46
1:G:444:TYR:CD1	1:G:445:LEU:N	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:398:PHE:N	1:I:398:PHE:CD1	2.81	0.46
1:I:684:TRP:N	1:I:684:TRP:CD1	2.81	0.46
1:I:722:GLU:HG2	1:I:722:GLU:O	2.15	0.46
1:J:607:GLN:NE2	1:L:625:ASP:OD1	2.47	0.46
1:J:733:ARG:HG2	1:J:734:ASN:O	2.15	0.46
1:L:526:HIS:CE1	1:L:531:GLU:HG3	2.50	0.46
1:L:682:ILE:O	1:L:683:GLU:HB3	2.15	0.46
1:O:462:PHE:HE2	1:m:554:ILE:HG22	1.80	0.46
1:O:554:ILE:HG22	1:n:462:PHE:HE2	1.80	0.46
1:O:625:ASP:OD1	1:n:607:GLN:NE2	2.48	0.46
1:O:722:GLU:HG2	1:O:722:GLU:O	2.15	0.46
1:S:445:LEU:HD23	1:S:446:SER:O	2.15	0.46
1:S:452:SER:HA	1:S:457:GLN:HG3	1.97	0.46
1:S:733:ARG:HG2	1:S:734:ASN:O	2.15	0.46
1:U:398:PHE:N	1:U:398:PHE:CD1	2.81	0.46
1:U:544:LYS:N	1:U:556:LYS:O	2.48	0.46
1:V:444:TYR:CD1	1:V:445:LEU:N	2.83	0.46
1:V:722:GLU:O	1:V:722:GLU:HG2	2.15	0.46
1:X:255:HIS:ND1	1:X:652:PRO:HG3	2.28	0.46
1:X:364:PRO:O	1:X:365:PHE:HB3	2.15	0.46
1:X:445:LEU:HD23	1:X:446:SER:O	2.15	0.46
1:X:518:ASN:HD22	1:e:474:SER:N	2.13	0.46
1:Y:544:LYS:N	1:Y:556:LYS:O	2.48	0.46
1:Y:733:ARG:HG2	1:Y:734:ASN:O	2.15	0.46
1:a:557:VAL:HG23	1:a:559:ILE:HG13	1.96	0.46
1:b:364:PRO:O	1:b:365:PHE:HB3	2.15	0.46
1:c:398:PHE:N	1:c:398:PHE:CD1	2.81	0.46
1:c:544:LYS:N	1:c:556:LYS:O	2.48	0.46
1:c:722:GLU:HG2	1:c:722:GLU:O	2.15	0.46
1:d:544:LYS:N	1:d:556:LYS:O	2.48	0.46
1:f:444:TYR:HD1	1:f:445:LEU:H	1.62	0.46
1:g:706:LYS:HD2	1:1:386:ALA:O	2.16	0.46
1:h:682:ILE:O	1:h:683:GLU:HB3	2.15	0.46
1:j:444:TYR:HD1	1:j:445:LEU:H	1.62	0.46
1:j:722:GLU:HG2	1:j:722:GLU:O	2.15	0.46
1:k:429:SER:OG	1:k:431:ASP:OD1	2.18	0.46
1:k:733:ARG:HG2	1:k:734:ASN:O	2.15	0.46
1:l:343:PHE:HD1	1:l:344:THR:H	1.61	0.46
1:l:444:TYR:HD1	1:l:445:LEU:H	1.62	0.46
1:m:364:PRO:O	1:m:365:PHE:HB3	2.15	0.46
1:m:733:ARG:HG2	1:m:734:ASN:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:444:TYR:CD1	1:n:445:LEU:N	2.83	0.46
1:q:398:PHE:CD1	1:q:398:PHE:N	2.81	0.46
1:q:607:GLN:NE2	1:r:625:ASP:OD1	2.47	0.46
1:r:398:PHE:N	1:r:398:PHE:CD1	2.81	0.46
1:r:733:ARG:HG2	1:r:734:ASN:O	2.15	0.46
1:t:452:SER:HA	1:t:457:GLN:HG3	1.97	0.46
1:t:625:ASP:OD1	1:v:607:GLN:NE2	2.48	0.46
1:u:398:PHE:CD1	1:u:398:PHE:N	2.81	0.46
1:u:733:ARG:HG2	1:u:734:ASN:O	2.15	0.46
1:v:398:PHE:N	1:v:398:PHE:CD1	2.81	0.46
1:v:526:HIS:CE1	1:v:531:GLU:HG3	2.50	0.46
1:w:429:SER:OG	1:w:431:ASP:OD1	2.18	0.46
1:w:444:TYR:CD1	1:w:445:LEU:N	2.83	0.46
1:w:452:SER:OG	1:w:456:THR:O	2.27	0.46
1:x:544:LYS:N	1:x:556:LYS:O	2.48	0.46
1:x:722:GLU:HG2	1:x:722:GLU:O	2.15	0.46
1:y:722:GLU:HG2	1:y:722:GLU:O	2.15	0.46
1:z:343:PHE:HD1	1:z:344:THR:H	1.61	0.46
1:z:398:PHE:N	1:z:398:PHE:CD1	2.81	0.46
1:1:364:PRO:O	1:1:365:PHE:HB3	2.15	0.46
1:1:526:HIS:CE1	1:1:531:GLU:HG3	2.50	0.46
1:3:518:ASN:HD22	1:4:474:SER:N	2.12	0.46
1:3:722:GLU:O	1:3:722:GLU:HG2	2.15	0.46
1:5:553:ASP:OD1	1:5:554:ILE:N	2.45	0.46
1:6:452:SER:HA	1:6:457:GLN:HG3	1.97	0.46
1:6:474:SER:N	1:7:518:ASN:HD22	2.13	0.46
1:6:682:ILE:O	1:6:683:GLU:HB3	2.15	0.46
1:6:722:GLU:HG2	1:6:722:GLU:O	2.15	0.46
1:7:444:TYR:HD1	1:7:445:LEU:H	1.62	0.46
1:7:526:HIS:CE1	1:7:531:GLU:HG3	2.50	0.46
1:7:544:LYS:N	1:7:556:LYS:O	2.48	0.46
1:7:553:ASP:OD1	1:7:554:ILE:N	2.46	0.46
1:A:364:PRO:O	1:A:365:PHE:HB3	2.15	0.46
1:A:682:ILE:O	1:A:683:GLU:HB3	2.15	0.46
1:B:398:PHE:N	1:B:398:PHE:CD1	2.81	0.46
1:C:625:ASP:OD1	1:M:607:GLN:NE2	2.47	0.46
1:E:444:TYR:HD1	1:E:445:LEU:H	1.62	0.46
1:F:445:LEU:HD23	1:F:446:SER:O	2.15	0.46
1:F:682:ILE:O	1:F:683:GLU:HB3	2.15	0.46
1:G:474:SER:N	1:I:518:ASN:HD22	2.12	0.46
1:H:658:SER:O	1:H:659:THR:OG1	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:733:ARG:HG2	1:H:734:ASN:O	2.15	0.46
1:O:444:TYR:CD1	1:O:445:LEU:N	2.83	0.46
1:P:445:LEU:HD23	1:P:446:SER:O	2.15	0.46
1:Q:445:LEU:HD23	1:Q:446:SER:O	2.15	0.46
1:R:452:SER:HA	1:R:457:GLN:HG3	1.97	0.46
1:T:364:PRO:O	1:T:365:PHE:HB3	2.15	0.46
1:T:444:TYR:CD1	1:T:445:LEU:N	2.83	0.46
1:T:625:ASP:OD1	1:l:607:GLN:NE2	2.48	0.46
1:T:682:ILE:O	1:T:683:GLU:HB3	2.15	0.46
1:U:444:TYR:CD1	1:U:445:LEU:N	2.83	0.46
1:V:518:ASN:HD22	1:X:474:SER:N	2.13	0.46
1:V:608:ASP:HB3	1:V:609:ARG:H	1.53	0.46
1:W:364:PRO:O	1:W:365:PHE:HB3	2.15	0.46
1:W:684:TRP:N	1:W:684:TRP:CD1	2.81	0.46
1:Y:364:PRO:O	1:Y:365:PHE:HB3	2.15	0.46
1:Y:398:PHE:N	1:Y:398:PHE:CD1	2.81	0.46
1:Y:445:LEU:HD23	1:Y:446:SER:O	2.15	0.46
1:Z:364:PRO:O	1:Z:365:PHE:HB3	2.15	0.46
1:Z:424:TYR:HA	1:Z:731:LEU:O	2.14	0.46
1:Z:554:ILE:HG22	1:3:462:PHE:HE2	1.80	0.46
1:Z:733:ARG:HG2	1:Z:734:ASN:O	2.16	0.46
1:a:364:PRO:O	1:a:365:PHE:HB3	2.15	0.46
1:a:553:ASP:OD1	1:a:554:ILE:N	2.45	0.46
1:b:526:HIS:CE1	1:b:531:GLU:HG3	2.50	0.46
1:b:545:GLN:OE1	1:b:545:GLN:N	2.34	0.46
1:g:288:HIS:HE2	1:g:614:GLN:HB3	1.78	0.46
1:g:733:ARG:HG2	1:g:734:ASN:O	2.15	0.46
1:h:544:LYS:N	1:h:556:LYS:O	2.48	0.46
1:h:733:ARG:HG2	1:h:734:ASN:O	2.16	0.46
1:i:288:HIS:HE2	1:i:614:GLN:HB3	1.78	0.46
1:i:445:LEU:HD23	1:i:446:SER:O	2.15	0.46
1:i:733:ARG:HG2	1:i:734:ASN:O	2.15	0.46
1:j:444:TYR:CD1	1:j:445:LEU:N	2.83	0.46
1:n:526:HIS:CE1	1:n:531:GLU:HG3	2.50	0.46
1:o:682:ILE:O	1:o:683:GLU:HB3	2.15	0.46
1:o:684:TRP:N	1:o:684:TRP:CD1	2.81	0.46
1:q:462:PHE:HE2	1:r:554:ILE:HG22	1.80	0.46
1:r:449:ASN:HB2	1:s:498:SER:C	2.41	0.46
1:s:733:ARG:HG2	1:s:734:ASN:O	2.16	0.46
1:t:424:TYR:HA	1:t:731:LEU:O	2.14	0.46
1:u:343:PHE:HD1	1:u:344:THR:H	1.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:526:HIS:CE1	1:u:531:GLU:HG3	2.50	0.46
1:u:557:VAL:HG23	1:u:559:ILE:HG13	1.96	0.46
1:v:544:LYS:N	1:v:556:LYS:O	2.48	0.46
1:y:444:TYR:CD1	1:y:445:LEU:N	2.83	0.46
1:1:449:ASN:HB2	1:2:498:SER:C	2.40	0.46
1:1:607:GLN:NE2	1:2:625:ASP:OD1	2.48	0.46
1:1:682:ILE:O	1:1:683:GLU:HB3	2.15	0.46
1:2:722:GLU:HG2	1:2:722:GLU:O	2.15	0.46
1:5:445:LEU:HD23	1:5:446:SER:O	2.15	0.46
1:7:398:PHE:CD1	1:7:398:PHE:N	2.81	0.46
1:7:682:ILE:O	1:7:683:GLU:HB3	2.15	0.46
1:8:445:LEU:HD23	1:8:446:SER:O	2.15	0.46
1:B:526:HIS:CE1	1:B:531:GLU:HG3	2.50	0.46
1:C:722:GLU:HG2	1:C:722:GLU:O	2.15	0.46
1:C:733:ARG:HG2	1:C:734:ASN:O	2.15	0.46
1:E:378:LEU:O	1:E:379:THR:OG1	2.26	0.46
1:E:452:SER:HA	1:E:457:GLN:HG3	1.97	0.46
1:E:682:ILE:O	1:E:683:GLU:HB3	2.16	0.46
1:E:722:GLU:HG2	1:E:722:GLU:O	2.15	0.46
1:E:733:ARG:HG2	1:E:734:ASN:O	2.16	0.46
1:F:391:SER:OG	1:F:392:PHE:N	2.44	0.46
1:H:378:LEU:O	1:H:379:THR:OG1	2.26	0.46
1:L:364:PRO:O	1:L:365:PHE:HB3	2.15	0.46
1:L:722:GLU:HG2	1:L:722:GLU:O	2.15	0.46
1:L:733:ARG:HG2	1:L:734:ASN:O	2.16	0.46
1:M:682:ILE:O	1:M:683:GLU:HB3	2.15	0.46
1:P:722:GLU:HG2	1:P:722:GLU:O	2.15	0.46
1:Q:553:ASP:OD1	1:Q:554:ILE:N	2.45	0.46
1:R:364:PRO:O	1:R:365:PHE:HB3	2.15	0.46
1:S:398:PHE:N	1:S:398:PHE:CD1	2.81	0.46
1:T:722:GLU:HG2	1:T:722:GLU:O	2.15	0.46
1:U:343:PHE:HD1	1:U:344:THR:H	1.61	0.46
1:W:462:PHE:HE2	1:Y:554:ILE:HG22	1.81	0.46
1:W:722:GLU:HG2	1:W:722:GLU:O	2.15	0.46
1:X:347:GLU:OE1	1:X:347:GLU:N	2.41	0.46
1:X:682:ILE:O	1:X:683:GLU:HB3	2.15	0.46
1:Z:443:TYR:OH	1:4:547:SER:OG	2.30	0.46
1:d:722:GLU:HG2	1:d:722:GLU:O	2.15	0.46
1:e:452:SER:OG	1:e:456:THR:O	2.27	0.46
1:f:444:TYR:CD1	1:f:445:LEU:N	2.83	0.46
1:g:445:LEU:HD23	1:g:446:SER:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:547:SER:OG	1:h:443:TYR:OH	2.29	0.46
1:h:324:THR:HG22	1:h:331:THR:HB	1.98	0.46
1:j:382:ASN:CG	1:j:383:GLY:H	2.22	0.46
1:k:324:THR:HG22	1:k:331:THR:HB	1.98	0.46
1:k:398:PHE:N	1:k:398:PHE:CD1	2.81	0.46
1:m:545:GLN:OE1	1:m:545:GLN:N	2.34	0.46
1:m:706:LYS:HD2	1:s:386:ALA:O	2.16	0.46
1:o:364:PRO:O	1:o:365:PHE:HB3	2.15	0.46
1:o:378:LEU:HA	1:o:378:LEU:HD23	1.75	0.46
1:o:396:GLU:OE1	1:o:396:GLU:N	2.47	0.46
1:o:452:SER:HA	1:o:457:GLN:HG3	1.97	0.46
1:p:324:THR:HG22	1:p:331:THR:HB	1.98	0.46
1:r:364:PRO:O	1:r:365:PHE:HB3	2.15	0.46
1:u:347:GLU:OE1	1:u:347:GLU:N	2.41	0.46
1:v:343:PHE:HD1	1:v:344:THR:H	1.61	0.46
1:v:431:ASP:OD1	1:v:432:ALA:N	2.45	0.46
1:x:347:GLU:OE1	1:x:347:GLU:N	2.41	0.46
1:x:445:LEU:HD23	1:x:446:SER:O	2.15	0.46
1:1:444:TYR:CD1	1:1:445:LEU:N	2.83	0.46
1:2:424:TYR:HA	1:2:731:LEU:O	2.14	0.46
1:5:378:LEU:HD23	1:5:378:LEU:HA	1.75	0.46
1:5:598:GLN:HE22	1:6:483:TYR:HE1	1.64	0.46
1:5:722:GLU:HG2	1:5:722:GLU:O	2.15	0.46
1:6:391:SER:OG	1:6:392:PHE:N	2.44	0.46
1:6:445:LEU:HD23	1:6:446:SER:O	2.15	0.46
1:6:581:THR:OG1	1:6:592:THR:O	2.32	0.46
1:7:733:ARG:HG2	1:7:734:ASN:O	2.16	0.46
1:A:396:GLU:OE1	1:A:396:GLU:N	2.47	0.46
1:B:722:GLU:HG2	1:B:722:GLU:O	2.15	0.46
1:C:445:LEU:HD23	1:C:446:SER:O	2.15	0.46
1:D:445:LEU:HD23	1:D:446:SER:O	2.15	0.46
1:E:398:PHE:N	1:E:398:PHE:CD1	2.81	0.46
1:F:733:ARG:HG2	1:F:734:ASN:O	2.16	0.46
1:G:324:THR:HG22	1:G:331:THR:HB	1.98	0.46
1:J:682:ILE:O	1:J:683:GLU:HB3	2.15	0.46
1:L:431:ASP:OD1	1:L:432:ALA:N	2.45	0.46
1:L:581:THR:OG1	1:L:592:THR:O	2.32	0.46
1:N:364:PRO:O	1:N:365:PHE:HB3	2.15	0.46
1:N:553:ASP:OD1	1:N:554:ILE:N	2.45	0.46
1:O:324:THR:HG22	1:O:331:THR:HB	1.98	0.46
1:O:398:PHE:N	1:O:398:PHE:CD1	2.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:483:TYR:HE1	1:n:598:GLN:HE22	1.64	0.46
1:P:682:ILE:O	1:P:683:GLU:HB3	2.15	0.46
1:Q:378:LEU:HD23	1:Q:378:LEU:HA	1.75	0.46
1:Q:722:GLU:HG2	1:Q:722:GLU:O	2.15	0.46
1:R:462:PHE:HE2	1:S:554:ILE:HG22	1.80	0.46
1:R:518:ASN:HD22	1:U:474:SER:N	2.13	0.46
1:R:722:GLU:O	1:R:722:GLU:HG2	2.15	0.46
1:S:347:GLU:OE1	1:S:347:GLU:N	2.41	0.46
1:S:722:GLU:HG2	1:S:722:GLU:O	2.15	0.46
1:U:289:CYS:HB2	1:U:290:HIS:ND1	2.31	0.46
1:U:733:ARG:HG2	1:U:734:ASN:O	2.15	0.46
1:V:246:THR:HG23	1:V:369:VAL:HG23	1.96	0.46
1:Z:416:GLU:OE1	1:Z:416:GLU:N	2.28	0.46
1:Z:682:ILE:O	1:Z:683:GLU:HB3	2.15	0.46
1:b:398:PHE:N	1:b:398:PHE:CD1	2.81	0.46
1:b:722:GLU:HG2	1:b:722:GLU:O	2.15	0.46
1:c:607:GLN:NE2	1:o:625:ASP:OD1	2.48	0.46
1:d:733:ARG:HG2	1:d:734:ASN:O	2.15	0.46
1:e:658:SER:O	1:e:659:THR:OG1	2.27	0.46
1:g:554:ILE:HG22	1:h:462:PHE:HE2	1.80	0.46
1:h:398:PHE:N	1:h:398:PHE:CD1	2.81	0.46
1:i:259:GLN:NE2	1:i:273:PHE:CE1	2.84	0.46
1:k:364:PRO:O	1:k:365:PHE:HB3	2.15	0.46
1:m:682:ILE:O	1:m:683:GLU:HB3	2.15	0.46
1:n:733:ARG:HG2	1:n:734:ASN:O	2.15	0.46
1:p:444:TYR:HD1	1:p:445:LEU:H	1.62	0.46
1:q:364:PRO:O	1:q:365:PHE:HB3	2.15	0.46
1:q:722:GLU:O	1:q:722:GLU:HG2	2.15	0.46
1:r:445:LEU:HD23	1:r:446:SER:O	2.15	0.46
1:t:364:PRO:O	1:t:365:PHE:HB3	2.15	0.46
1:t:462:PHE:HE2	1:u:554:ILE:HG22	1.80	0.46
1:u:722:GLU:HG2	1:u:722:GLU:O	2.15	0.46
1:v:289:CYS:HB2	1:v:290:HIS:ND1	2.31	0.46
1:v:682:ILE:O	1:v:683:GLU:HB3	2.15	0.46
1:x:474:SER:N	1:y:518:ASN:HD22	2.13	0.46
1:x:682:ILE:O	1:x:683:GLU:HB3	2.15	0.46
1:y:445:LEU:HD23	1:y:446:SER:O	2.15	0.46
1:z:474:SER:N	1:1:518:ASN:HD22	2.12	0.46
1:1:722:GLU:HG2	1:1:722:GLU:O	2.15	0.46
1:3:324:THR:HG22	1:3:331:THR:HB	1.98	0.46
1:3:582:ASN:OD1	1:3:591:ALA:N	2.35	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:733:ARG:HG2	1:4:734:ASN:O	2.15	0.46
1:6:259:GLN:NE2	1:6:273:PHE:CE1	2.84	0.46
1:6:733:ARG:HG2	1:6:734:ASN:O	2.16	0.46
1:7:452:SER:HA	1:7:457:GLN:HG3	1.97	0.46
1:7:722:GLU:O	1:7:722:GLU:HG2	2.15	0.46
1:8:722:GLU:HG2	1:8:722:GLU:O	2.15	0.46
1:B:347:GLU:OE1	1:B:347:GLU:N	2.41	0.46
1:B:544:LYS:N	1:B:556:LYS:O	2.48	0.46
1:C:289:CYS:HB2	1:C:290:HIS:ND1	2.31	0.46
1:E:324:THR:HG22	1:E:331:THR:HB	1.98	0.46
1:F:259:GLN:NE2	1:F:273:PHE:CE1	2.84	0.46
1:G:259:GLN:NE2	1:G:273:PHE:CE1	2.84	0.46
1:H:386:ALA:O	1:Z:706:LYS:HD2	2.16	0.46
1:I:364:PRO:O	1:I:365:PHE:HB3	2.15	0.46
1:I:733:ARG:HG2	1:I:734:ASN:O	2.16	0.46
1:J:259:GLN:NE2	1:J:273:PHE:CE1	2.84	0.46
1:K:445:LEU:HD23	1:K:446:SER:O	2.15	0.46
1:K:462:PHE:HE2	1:a:554:ILE:HG22	1.80	0.46
1:N:733:ARG:HG2	1:N:734:ASN:O	2.16	0.46
1:O:259:GLN:NE2	1:O:273:PHE:CE1	2.84	0.46
1:O:445:LEU:HD23	1:O:446:SER:O	2.15	0.46
1:O:452:SER:HA	1:O:457:GLN:HG3	1.97	0.46
1:O:518:ASN:HD22	1:n:474:SER:N	2.13	0.46
1:O:582:ASN:OD1	1:O:591:ALA:N	2.35	0.46
1:R:444:TYR:HD1	1:R:445:LEU:H	1.62	0.46
1:R:544:LYS:N	1:R:556:LYS:O	2.48	0.46
1:S:343:PHE:HD1	1:S:344:THR:H	1.61	0.46
1:T:498:SER:C	1:l:449:ASN:HB2	2.40	0.46
1:U:608:ASP:HB3	1:U:609:ARG:H	1.53	0.46
1:U:682:ILE:O	1:U:683:GLU:HB3	2.15	0.46
1:V:682:ILE:O	1:V:683:GLU:HB3	2.15	0.46
1:X:684:TRP:N	1:X:684:TRP:CD1	2.81	0.46
1:X:733:ARG:HG2	1:X:734:ASN:O	2.16	0.46
1:Z:444:TYR:HD1	1:Z:445:LEU:H	1.62	0.46
1:a:733:ARG:HG2	1:a:734:ASN:O	2.15	0.46
1:c:289:CYS:HB2	1:c:290:HIS:ND1	2.31	0.46
1:c:391:SER:OG	1:c:392:PHE:N	2.44	0.46
1:d:424:TYR:HA	1:d:731:LEU:O	2.14	0.46
1:d:444:TYR:CD1	1:d:445:LEU:N	2.83	0.46
1:f:289:CYS:HB2	1:f:290:HIS:ND1	2.31	0.46
1:f:452:SER:HA	1:f:457:GLN:HG3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:598:GLN:HE22	1:h:483:TYR:HE1	1.64	0.46
1:g:259:GLN:NE2	1:g:273:PHE:CE1	2.84	0.46
1:g:452:SER:HA	1:g:457:GLN:HG3	1.97	0.46
1:h:364:PRO:O	1:h:365:PHE:HB3	2.15	0.46
1:j:289:CYS:HB2	1:j:290:HIS:ND1	2.31	0.46
1:j:452:SER:HA	1:j:457:GLN:HG3	1.97	0.46
1:j:598:GLN:HE22	1:k:483:TYR:HE1	1.64	0.46
1:l:247:TRP:NE1	1:l:677:GLN:O	2.34	0.46
1:l:289:CYS:HB2	1:l:290:HIS:ND1	2.31	0.46
1:m:444:TYR:HD1	1:m:445:LEU:H	1.62	0.46
1:m:581:THR:OG1	1:m:592:THR:O	2.32	0.46
1:n:386:ALA:O	1:r:706:LYS:HD2	2.16	0.46
1:o:246:THR:HG23	1:o:369:VAL:HG23	1.96	0.46
1:p:259:GLN:NE2	1:p:273:PHE:CE1	2.84	0.46
1:q:324:THR:HG22	1:q:331:THR:HB	1.98	0.46
1:q:684:TRP:CD1	1:q:684:TRP:N	2.81	0.46
1:q:706:LYS:HD2	1:y:386:ALA:O	2.16	0.46
1:s:391:SER:OG	1:s:392:PHE:N	2.44	0.46
1:t:444:TYR:HD1	1:t:445:LEU:H	1.62	0.46
1:t:722:GLU:HG2	1:t:722:GLU:O	2.15	0.46
1:u:452:SER:HA	1:u:457:GLN:HG3	1.97	0.46
1:x:259:GLN:NE2	1:x:273:PHE:CE1	2.84	0.46
1:y:347:GLU:OE1	1:y:347:GLU:N	2.41	0.46
1:z:289:CYS:HB2	1:z:290:HIS:ND1	2.31	0.46
1:2:444:TYR:CD1	1:2:445:LEU:N	2.83	0.46
1:2:733:ARG:HG2	1:2:734:ASN:O	2.15	0.46
1:3:259:GLN:NE2	1:3:273:PHE:CE1	2.84	0.46
1:3:444:TYR:CD1	1:3:445:LEU:N	2.83	0.46
1:3:445:LEU:HD23	1:3:446:SER:O	2.15	0.46
1:4:444:TYR:HD1	1:4:445:LEU:H	1.62	0.46
1:5:391:SER:OG	1:5:392:PHE:N	2.44	0.46
1:8:682:ILE:O	1:8:683:GLU:HB3	2.15	0.46
1:A:246:THR:HG23	1:A:369:VAL:HG23	1.96	0.46
1:A:449:ASN:HB2	1:G:498:SER:C	2.40	0.46
1:D:462:PHE:HE2	1:N:554:ILE:HG22	1.80	0.46
1:E:554:ILE:HG22	1:F:462:PHE:HE2	1.80	0.46
1:F:378:LEU:HD23	1:F:378:LEU:HA	1.75	0.46
1:I:289:CYS:HB2	1:I:290:HIS:ND1	2.31	0.46
1:K:722:GLU:HG2	1:K:722:GLU:O	2.15	0.46
1:L:289:CYS:HB2	1:L:290:HIS:ND1	2.31	0.46
1:L:445:LEU:HD23	1:L:446:SER:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:259:GLN:NE2	1:M:273:PHE:CE1	2.84	0.46
1:N:474:SER:N	1:P:518:ASN:HD22	2.13	0.46
1:O:598:GLN:HE22	1:m:483:TYR:HE1	1.64	0.46
1:O:682:ILE:O	1:O:683:GLU:HB3	2.15	0.46
1:S:259:GLN:NE2	1:S:273:PHE:CE1	2.84	0.46
1:T:259:GLN:NE2	1:T:273:PHE:CE1	2.84	0.46
1:T:324:THR:HG22	1:T:331:THR:HB	1.98	0.46
1:U:259:GLN:NE2	1:U:273:PHE:CE1	2.84	0.46
1:V:445:LEU:HD23	1:V:446:SER:O	2.15	0.46
1:W:324:THR:HG22	1:W:331:THR:HB	1.98	0.46
1:W:607:GLN:NE2	1:Y:625:ASP:OD1	2.48	0.46
1:X:244:THR:O	1:X:245:ARG:NH1	2.40	0.46
1:X:259:GLN:NE2	1:X:273:PHE:CE1	2.84	0.46
1:X:498:SER:C	1:e:449:ASN:HB2	2.41	0.46
1:Z:483:TYR:HE1	1:3:598:GLN:HE22	1.64	0.46
1:Z:581:THR:OG1	1:Z:592:THR:O	2.32	0.46
1:a:445:LEU:HD23	1:a:446:SER:O	2.15	0.46
1:a:474:SER:N	1:8:518:ASN:HD22	2.13	0.46
1:c:582:ASN:OD1	1:c:591:ALA:N	2.35	0.46
1:c:733:ARG:HG2	1:c:734:ASN:O	2.16	0.46
1:f:445:LEU:HD23	1:f:446:SER:O	2.15	0.46
1:i:518:ASN:HD22	1:k:474:SER:N	2.13	0.46
1:j:462:PHE:HE2	1:k:554:ILE:HG22	1.80	0.46
1:l:244:THR:O	1:l:245:ARG:NH1	2.40	0.46
1:l:259:GLN:NE2	1:l:273:PHE:CE1	2.84	0.46
1:m:462:PHE:HE2	1:n:554:ILE:HG22	1.80	0.46
1:n:289:CYS:HB2	1:n:290:HIS:ND1	2.31	0.46
1:n:347:GLU:OE1	1:n:347:GLU:N	2.41	0.46
1:n:444:TYR:HD1	1:n:445:LEU:H	1.62	0.46
1:q:347:GLU:OE1	1:q:347:GLU:N	2.41	0.46
1:q:452:SER:HA	1:q:457:GLN:HG3	1.97	0.46
1:s:289:CYS:HB2	1:s:290:HIS:ND1	2.31	0.46
1:t:544:LYS:N	1:t:556:LYS:O	2.48	0.46
1:u:259:GLN:NE2	1:u:273:PHE:CE1	2.84	0.46
1:u:326:ASN:O	1:u:329:THR:OG1	2.19	0.46
1:v:259:GLN:NE2	1:v:273:PHE:CE1	2.84	0.46
1:v:733:ARG:HG2	1:v:734:ASN:O	2.16	0.46
1:x:684:TRP:N	1:x:684:TRP:CD1	2.81	0.46
1:x:733:ARG:HG2	1:x:734:ASN:O	2.15	0.46
1:y:378:LEU:O	1:y:379:THR:OG1	2.26	0.46
1:y:682:ILE:O	1:y:683:GLU:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:247:TRP:NE1	1:z:677:GLN:O	2.34	0.46
1:z:259:GLN:NE2	1:z:273:PHE:CE1	2.84	0.46
1:z:444:TYR:CD1	1:z:445:LEU:N	2.83	0.46
1:z:722:GLU:HG2	1:z:722:GLU:O	2.15	0.46
1:1:259:GLN:NE2	1:1:273:PHE:CE1	2.84	0.46
1:1:462:PHE:HE2	1:2:554:ILE:HG22	1.80	0.46
1:3:398:PHE:CD1	1:3:398:PHE:N	2.81	0.46
1:3:452:SER:HA	1:3:457:GLN:HG3	1.97	0.46
1:4:289:CYS:HB2	1:4:290:HIS:ND1	2.31	0.46
1:7:324:THR:HG22	1:7:331:THR:HB	1.98	0.46
1:A:449:ASN:O	1:A:450:THR:OG1	2.20	0.46
1:A:607:GLN:NE2	1:G:625:ASP:OD1	2.48	0.46
1:C:259:GLN:NE2	1:C:273:PHE:CE1	2.84	0.46
1:D:259:GLN:NE2	1:D:273:PHE:CE1	2.84	0.46
1:D:722:GLU:HG2	1:D:722:GLU:O	2.15	0.46
1:F:324:THR:HG22	1:F:331:THR:HB	1.98	0.46
1:F:498:SER:C	1:Q:449:ASN:HB2	2.41	0.46
1:G:244:THR:O	1:G:245:ARG:NH1	2.40	0.46
1:G:444:TYR:HD1	1:G:445:LEU:H	1.62	0.46
1:G:582:ASN:OD1	1:G:591:ALA:N	2.35	0.46
1:H:289:CYS:HB2	1:H:290:HIS:ND1	2.31	0.46
1:I:391:SER:OG	1:I:392:PHE:N	2.44	0.46
1:J:444:TYR:CD1	1:J:445:LEU:N	2.83	0.46
1:K:483:TYR:HE1	1:8:598:GLN:HE22	1.64	0.46
1:M:444:TYR:CD1	1:M:445:LEU:N	2.83	0.46
1:N:324:THR:HG22	1:N:331:THR:HB	1.98	0.46
1:N:444:TYR:HD1	1:N:445:LEU:H	1.62	0.46
1:N:445:LEU:HD23	1:N:446:SER:O	2.15	0.46
1:O:347:GLU:OE1	1:O:347:GLU:N	2.41	0.46
1:P:444:TYR:CD1	1:P:445:LEU:N	2.83	0.46
1:Q:259:GLN:NE2	1:Q:273:PHE:CE1	2.84	0.46
1:Q:391:SER:OG	1:Q:392:PHE:N	2.44	0.46
1:Q:706:LYS:HD2	1:S:386:ALA:O	2.16	0.46
1:T:398:PHE:N	1:T:398:PHE:CD1	2.81	0.46
1:T:544:LYS:N	1:T:556:LYS:O	2.48	0.46
1:T:553:ASP:OD1	1:T:554:ILE:N	2.45	0.46
1:V:386:ALA:O	1:W:706:LYS:HD2	2.16	0.46
1:W:445:LEU:HD23	1:W:446:SER:O	2.15	0.46
1:W:544:LYS:N	1:W:556:LYS:O	2.48	0.46
1:W:682:ILE:O	1:W:683:GLU:HB3	2.15	0.46
1:X:398:PHE:N	1:X:398:PHE:CD1	2.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:324:THR:HG22	1:a:331:THR:HB	1.98	0.46
1:a:378:LEU:HD23	1:a:378:LEU:HA	1.75	0.46
1:a:544:LYS:N	1:a:556:LYS:O	2.48	0.46
1:b:444:TYR:HD1	1:b:445:LEU:H	1.62	0.46
1:b:544:LYS:N	1:b:556:LYS:O	2.48	0.46
1:c:364:PRO:O	1:c:365:PHE:HB3	2.15	0.46
1:d:444:TYR:HD1	1:d:445:LEU:H	1.62	0.46
1:f:462:PHE:HE2	1:h:554:ILE:HG22	1.81	0.46
1:g:518:ASN:HD22	1:h:474:SER:N	2.13	0.46
1:i:452:SER:HA	1:i:457:GLN:HG3	1.97	0.46
1:i:722:GLU:O	1:i:722:GLU:HG2	2.15	0.46
1:j:445:LEU:HD23	1:j:446:SER:O	2.15	0.46
1:k:684:TRP:N	1:k:684:TRP:CD1	2.81	0.46
1:l:682:ILE:O	1:l:683:GLU:HB3	2.15	0.46
1:l:722:GLU:HG2	1:l:722:GLU:O	2.15	0.46
1:m:324:THR:HG22	1:m:331:THR:HB	1.98	0.46
1:o:259:GLN:NE2	1:o:273:PHE:CE1	2.84	0.46
1:o:607:GLN:NE2	1:p:625:ASP:OD1	2.48	0.46
1:q:445:LEU:HD23	1:q:446:SER:O	2.15	0.46
1:q:544:LYS:N	1:q:556:LYS:O	2.48	0.46
1:q:682:ILE:O	1:q:683:GLU:HB3	2.15	0.46
1:r:259:GLN:NE2	1:r:273:PHE:CE1	2.84	0.46
1:s:343:PHE:HD1	1:s:344:THR:H	1.61	0.46
1:t:518:ASN:HD22	1:v:474:SER:N	2.13	0.46
1:u:386:ALA:O	1:5:706:LYS:HD2	2.16	0.46
1:w:598:GLN:HE22	1:x:483:TYR:HE1	1.64	0.46
1:x:244:THR:O	1:x:245:ARG:NH1	2.40	0.46
1:z:682:ILE:O	1:z:683:GLU:HB3	2.15	0.46
1:1:445:LEU:HD23	1:1:446:SER:O	2.15	0.46
1:2:289:CYS:HB2	1:2:290:HIS:ND1	2.31	0.46
1:3:682:ILE:O	1:3:683:GLU:HB3	2.15	0.46
1:4:259:GLN:NE2	1:4:273:PHE:CE1	2.84	0.46
1:5:259:GLN:NE2	1:5:273:PHE:CE1	2.84	0.46
1:A:259:GLN:NE2	1:A:273:PHE:CE1	2.84	0.46
1:A:445:LEU:HD23	1:A:446:SER:O	2.15	0.46
1:B:444:TYR:HD1	1:B:445:LEU:H	1.62	0.46
1:B:545:GLN:OE1	1:B:545:GLN:N	2.34	0.46
1:D:483:TYR:HE1	1:P:598:GLN:HE22	1.64	0.46
1:F:706:LYS:HD2	1:G:386:ALA:O	2.16	0.46
1:G:445:LEU:HD23	1:G:446:SER:O	2.15	0.46
1:H:498:SER:C	1:Y:449:ASN:HB2	2.41	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:706:LYS:HD2	1:a:386:ALA:O	2.16	0.46
1:K:259:GLN:NE2	1:K:273:PHE:CE1	2.84	0.46
1:K:398:PHE:N	1:K:398:PHE:CD1	2.81	0.46
1:L:259:GLN:NE2	1:L:273:PHE:CE1	2.84	0.46
1:M:483:TYR:HE1	1:b:598:GLN:HE22	1.64	0.46
1:M:706:LYS:HD2	1:N:386:ALA:O	2.16	0.46
1:N:452:SER:HA	1:N:457:GLN:HG3	1.97	0.46
1:N:544:LYS:N	1:N:556:LYS:O	2.48	0.46
1:T:244:THR:O	1:T:245:ARG:NH1	2.40	0.46
1:T:445:LEU:HD23	1:T:446:SER:O	2.15	0.46
1:V:498:SER:C	1:X:449:ASN:HB2	2.41	0.46
1:W:347:GLU:OE1	1:W:347:GLU:N	2.41	0.46
1:W:452:SER:HA	1:W:457:GLN:HG3	1.97	0.46
1:X:324:THR:HG22	1:X:331:THR:HB	1.98	0.46
1:Y:259:GLN:NE2	1:Y:273:PHE:CE1	2.84	0.46
1:Y:289:CYS:HB2	1:Y:290:HIS:ND1	2.31	0.46
1:Y:706:LYS:HD2	1:4:386:ALA:O	2.16	0.46
1:Z:324:THR:HG22	1:Z:331:THR:HB	1.98	0.46
1:Z:449:ASN:HB2	1:4:498:SER:C	2.41	0.46
1:Z:545:GLN:OE1	1:Z:545:GLN:N	2.34	0.46
1:Z:553:ASP:OD1	1:Z:554:ILE:N	2.45	0.46
1:a:289:CYS:HB2	1:a:290:HIS:ND1	2.31	0.46
1:a:398:PHE:N	1:a:398:PHE:CD1	2.81	0.46
1:a:452:SER:HA	1:a:457:GLN:HG3	1.97	0.46
1:b:347:GLU:OE1	1:b:347:GLU:N	2.41	0.46
1:b:706:LYS:HD2	1:o:386:ALA:O	2.16	0.46
1:c:682:ILE:O	1:c:683:GLU:HB3	2.15	0.46
1:f:630:PRO:O	1:f:632:PRO:HD3	2.16	0.46
1:g:722:GLU:HG2	1:g:722:GLU:O	2.15	0.46
1:h:289:CYS:HB2	1:h:290:HIS:ND1	2.31	0.46
1:h:684:TRP:N	1:h:684:TRP:CD1	2.81	0.46
1:h:722:GLU:HG2	1:h:722:GLU:O	2.15	0.46
1:k:289:CYS:HB2	1:k:290:HIS:ND1	2.31	0.46
1:k:722:GLU:HG2	1:k:722:GLU:O	2.15	0.46
1:l:444:TYR:CD1	1:l:445:LEU:N	2.83	0.46
1:l:452:SER:HA	1:l:457:GLN:HG3	1.97	0.46
1:l:594:ASP:CG	1:l:595:VAL:N	2.73	0.46
1:l:630:PRO:O	1:l:632:PRO:HD3	2.16	0.46
1:m:259:GLN:NE2	1:m:273:PHE:CE1	2.84	0.46
1:m:607:GLN:NE2	1:n:625:ASP:OD1	2.48	0.46
1:n:259:GLN:NE2	1:n:273:PHE:CE1	2.84	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:364:PRO:O	1:n:365:PHE:HB3	2.15	0.46
1:o:445:LEU:HD23	1:o:446:SER:O	2.15	0.46
1:o:722:GLU:HG2	1:o:722:GLU:O	2.15	0.46
1:p:733:ARG:HG2	1:p:734:ASN:O	2.16	0.46
1:q:444:TYR:CD1	1:q:445:LEU:N	2.83	0.46
1:t:582:ASN:OD1	1:t:591:ALA:N	2.35	0.46
1:u:630:PRO:O	1:u:632:PRO:HD3	2.16	0.46
1:w:658:SER:O	1:w:659:THR:OG1	2.27	0.46
1:x:449:ASN:HB2	1:y:498:SER:C	2.41	0.46
1:y:259:GLN:NE2	1:y:273:PHE:CE1	2.84	0.46
1:z:452:SER:HA	1:z:457:GLN:HG3	1.97	0.46
1:z:630:PRO:O	1:z:632:PRO:HD3	2.16	0.46
1:1:324:THR:HG22	1:1:331:THR:HB	1.98	0.46
1:1:553:ASP:OD1	1:1:554:ILE:N	2.45	0.46
1:2:444:TYR:HD1	1:2:445:LEU:H	1.62	0.46
1:3:498:SER:C	1:4:449:ASN:HB2	2.41	0.46
1:3:733:ARG:HG2	1:3:734:ASN:O	2.15	0.46
1:7:630:PRO:O	1:7:632:PRO:HD3	2.16	0.46
1:A:630:PRO:O	1:A:632:PRO:HD3	2.16	0.46
1:A:722:GLU:HG2	1:A:722:GLU:O	2.15	0.46
1:B:598:GLN:HE22	1:J:483:TYR:HE1	1.64	0.46
1:C:449:ASN:C	1:C:450:THR:HG1	2.19	0.46
1:E:630:PRO:O	1:E:632:PRO:HD3	2.16	0.46
1:F:483:TYR:HE1	1:Q:598:GLN:HE22	1.64	0.46
1:G:733:ARG:HG2	1:G:734:ASN:O	2.16	0.46
1:H:343:PHE:HD1	1:H:344:THR:H	1.61	0.46
1:H:391:SER:OG	1:H:392:PHE:N	2.44	0.46
1:H:398:PHE:N	1:H:398:PHE:CD1	2.81	0.46
1:L:658:SER:O	1:L:659:THR:OG1	2.27	0.46
1:M:445:LEU:HD23	1:M:446:SER:O	2.15	0.46
1:N:289:CYS:HB2	1:N:290:HIS:ND1	2.31	0.46
1:N:378:LEU:HD23	1:N:378:LEU:HA	1.75	0.46
1:O:342:VAL:HG13	1:O:343:PHE:N	2.31	0.46
1:O:449:ASN:HB2	1:m:498:SER:C	2.41	0.46
1:Q:324:THR:HG22	1:Q:331:THR:HB	1.98	0.46
1:S:326:ASN:O	1:S:329:THR:OG1	2.19	0.46
1:S:630:PRO:O	1:S:632:PRO:HD3	2.16	0.46
1:U:630:PRO:O	1:U:632:PRO:HD3	2.16	0.46
1:V:259:GLN:NE2	1:V:273:PHE:CE1	2.84	0.46
1:V:347:GLU:OE1	1:V:347:GLU:N	2.41	0.46
1:W:444:TYR:CD1	1:W:445:LEU:N	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:444:TYR:CD1	1:Y:445:LEU:N	2.83	0.46
1:Z:259:GLN:NE2	1:Z:273:PHE:CE1	2.84	0.46
1:a:259:GLN:NE2	1:a:273:PHE:CE1	2.84	0.46
1:d:289:CYS:HB2	1:d:290:HIS:ND1	2.31	0.46
1:e:259:GLN:NE2	1:e:273:PHE:CE1	2.84	0.46
1:e:324:THR:HG22	1:e:331:THR:HB	1.98	0.46
1:e:444:TYR:HD1	1:e:445:LEU:H	1.62	0.46
1:e:722:GLU:O	1:e:722:GLU:HG2	2.15	0.46
1:f:364:PRO:O	1:f:365:PHE:HB3	2.15	0.46
1:f:498:SER:C	1:g:449:ASN:HB2	2.41	0.46
1:h:444:TYR:CD1	1:h:445:LEU:N	2.83	0.46
1:j:364:PRO:O	1:j:365:PHE:HB3	2.15	0.46
1:j:630:PRO:O	1:j:632:PRO:HD3	2.16	0.46
1:k:259:GLN:NE2	1:k:273:PHE:CE1	2.84	0.46
1:k:444:TYR:CD1	1:k:445:LEU:N	2.83	0.46
1:m:289:CYS:HB2	1:m:290:HIS:ND1	2.31	0.46
1:n:553:ASP:OD1	1:n:554:ILE:N	2.45	0.46
1:p:582:ASN:OD1	1:p:591:ALA:N	2.35	0.46
1:p:722:GLU:HG2	1:p:722:GLU:O	2.15	0.46
1:r:289:CYS:HB2	1:r:290:HIS:ND1	2.31	0.46
1:s:608:ASP:HB3	1:s:609:ARG:H	1.53	0.46
1:s:682:ILE:O	1:s:683:GLU:HB3	2.15	0.46
1:v:630:PRO:O	1:v:632:PRO:HD3	2.16	0.46
1:w:444:TYR:HD1	1:w:445:LEU:H	1.62	0.46
1:w:498:SER:C	1:y:449:ASN:HB2	2.41	0.46
1:z:544:LYS:N	1:z:556:LYS:O	2.48	0.46
1:z:607:GLN:NE2	1:1:625:ASP:OD1	2.49	0.46
1:1:289:CYS:HB2	1:1:290:HIS:ND1	2.31	0.46
1:1:544:LYS:N	1:1:556:LYS:O	2.48	0.46
1:2:324:THR:HG22	1:2:331:THR:HB	1.98	0.46
1:4:364:PRO:O	1:4:365:PHE:HB3	2.15	0.46
1:4:553:ASP:OD1	1:4:554:ILE:N	2.45	0.46
1:5:324:THR:HG22	1:5:331:THR:HB	1.98	0.46
1:6:324:THR:HG22	1:6:331:THR:HB	1.98	0.46
1:6:462:PHE:CD2	1:7:557:VAL:HG11	2.51	0.46
1:7:259:GLN:NE2	1:7:273:PHE:CE1	2.84	0.46
1:8:444:TYR:CD1	1:8:445:LEU:N	2.83	0.46
1:8:733:ARG:HG2	1:8:734:ASN:O	2.16	0.46
1:A:378:LEU:HA	1:A:378:LEU:HD23	1.75	0.46
1:A:386:ALA:O	1:B:706:LYS:HD2	2.16	0.46
1:B:630:PRO:O	1:B:632:PRO:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:544:LYS:N	1:D:556:LYS:O	2.48	0.46
1:D:733:ARG:HG2	1:D:734:ASN:O	2.15	0.46
1:E:259:GLN:NE2	1:E:273:PHE:CE1	2.84	0.46
1:F:630:PRO:O	1:F:632:PRO:HD3	2.16	0.46
1:G:692:LYS:HG2	1:I:398:PHE:CE1	2.51	0.46
1:G:722:GLU:HG2	1:G:722:GLU:O	2.15	0.46
1:I:682:ILE:O	1:I:683:GLU:HB3	2.15	0.46
1:J:445:LEU:HD23	1:J:446:SER:O	2.15	0.46
1:K:449:ASN:HB2	1:a:498:SER:C	2.41	0.46
1:K:544:LYS:N	1:K:556:LYS:O	2.48	0.46
1:K:682:ILE:O	1:K:683:GLU:HB3	2.15	0.46
1:K:733:ARG:HG2	1:K:734:ASN:O	2.16	0.46
1:N:630:PRO:O	1:N:632:PRO:HD3	2.16	0.46
1:O:444:TYR:HD1	1:O:445:LEU:H	1.62	0.46
1:O:733:ARG:HG2	1:O:734:ASN:O	2.16	0.46
1:P:289:CYS:HB2	1:P:290:HIS:ND1	2.31	0.46
1:P:733:ARG:HG2	1:P:734:ASN:O	2.16	0.46
1:Q:630:PRO:O	1:Q:632:PRO:HD3	2.16	0.46
1:S:289:CYS:HB2	1:S:290:HIS:ND1	2.31	0.46
1:T:289:CYS:HB2	1:T:290:HIS:ND1	2.31	0.46
1:T:462:PHE:HE2	1:d:554:ILE:HG22	1.80	0.46
1:T:594:ASP:CG	1:T:595:VAL:N	2.73	0.46
1:T:630:PRO:O	1:T:632:PRO:HD3	2.16	0.46
1:V:449:ASN:HB2	1:e:498:SER:C	2.41	0.46
1:X:483:TYR:HE1	1:e:598:GLN:HE22	1.64	0.46
1:Z:498:SER:C	1:3:449:ASN:HB2	2.41	0.46
1:a:444:TYR:HD1	1:a:445:LEU:H	1.62	0.46
1:d:449:ASN:HB2	1:l:498:SER:C	2.41	0.46
1:f:462:PHE:CD2	1:h:557:VAL:HG11	2.51	0.46
1:f:733:ARG:HG2	1:f:734:ASN:O	2.15	0.46
1:g:483:TYR:HE1	1:h:598:GLN:HE22	1.64	0.46
1:h:259:GLN:NE2	1:h:273:PHE:CE1	2.84	0.46
1:j:462:PHE:CD2	1:k:557:VAL:HG11	2.51	0.46
1:j:682:ILE:O	1:j:683:GLU:HB3	2.15	0.46
1:k:347:GLU:OE1	1:k:347:GLU:N	2.41	0.46
1:k:445:LEU:HD23	1:k:446:SER:O	2.15	0.46
1:l:544:LYS:N	1:l:556:LYS:O	2.48	0.46
1:m:553:ASP:OD1	1:m:554:ILE:N	2.46	0.46
1:o:630:PRO:O	1:o:632:PRO:HD3	2.16	0.46
1:p:244:THR:O	1:p:245:ARG:NH1	2.40	0.46
1:p:445:LEU:HD23	1:p:446:SER:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:462:PHE:CD2	1:r:557:VAL:HG11	2.51	0.46
1:q:553:ASP:OD1	1:q:554:ILE:N	2.46	0.46
1:r:444:TYR:CD1	1:r:445:LEU:N	2.83	0.46
1:t:259:GLN:NE2	1:t:273:PHE:CE1	2.84	0.46
1:v:364:PRO:O	1:v:365:PHE:HB3	2.15	0.46
1:w:324:THR:HG22	1:w:331:THR:HB	1.98	0.46
1:w:722:GLU:HG2	1:w:722:GLU:O	2.15	0.46
1:x:398:PHE:N	1:x:398:PHE:CD1	2.81	0.46
1:z:244:THR:O	1:z:245:ARG:NH1	2.40	0.46
1:z:733:ARG:HG2	1:z:734:ASN:O	2.15	0.46
1:1:398:PHE:N	1:1:398:PHE:CD1	2.81	0.46
1:1:594:ASP:CG	1:1:595:VAL:N	2.73	0.46
1:1:630:PRO:O	1:1:632:PRO:HD3	2.16	0.46
1:3:444:TYR:HD1	1:3:445:LEU:H	1.62	0.46
1:4:347:GLU:OE1	1:4:347:GLU:N	2.41	0.46
1:5:630:PRO:O	1:5:632:PRO:HD3	2.16	0.46
1:6:289:CYS:HB2	1:6:290:HIS:ND1	2.31	0.46
1:A:289:CYS:HB2	1:A:290:HIS:ND1	2.31	0.45
1:C:483:TYR:HE1	1:M:598:GLN:HE22	1.64	0.45
1:C:498:SER:C	1:M:449:ASN:HB2	2.41	0.45
1:C:658:SER:O	1:C:659:THR:OG1	2.27	0.45
1:D:398:PHE:N	1:D:398:PHE:CD1	2.81	0.45
1:D:682:ILE:O	1:D:683:GLU:HB3	2.15	0.45
1:F:289:CYS:HB2	1:F:290:HIS:ND1	2.31	0.45
1:G:289:CYS:HB2	1:G:290:HIS:ND1	2.31	0.45
1:G:706:LYS:HD2	1:W:386:ALA:O	2.17	0.45
1:H:324:THR:HG22	1:H:331:THR:HB	1.98	0.45
1:H:518:ASN:HD22	1:Y:474:SER:N	2.13	0.45
1:H:682:ILE:O	1:H:683:GLU:HB3	2.15	0.45
1:I:452:SER:HA	1:I:457:GLN:HG3	1.97	0.45
1:J:449:ASN:HB2	1:L:498:SER:C	2.41	0.45
1:O:607:GLN:NE2	1:m:625:ASP:OD1	2.48	0.45
1:R:259:GLN:NE2	1:R:273:PHE:CE1	2.84	0.45
1:R:449:ASN:HB2	1:S:498:SER:C	2.41	0.45
1:R:498:SER:C	1:U:449:ASN:HB2	2.41	0.45
1:R:733:ARG:HG2	1:R:734:ASN:O	2.15	0.45
1:S:324:THR:HG22	1:S:331:THR:HB	1.98	0.45
1:T:518:ASN:HD22	1:l:474:SER:N	2.13	0.45
1:T:557:VAL:HG11	1:l:462:PHE:CD2	2.52	0.45
1:T:733:ARG:HG2	1:T:734:ASN:O	2.16	0.45
1:U:347:GLU:OE1	1:U:347:GLU:N	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:343:PHE:HD1	1:W:344:THR:H	1.61	0.45
1:Z:289:CYS:HB2	1:Z:290:HIS:ND1	2.31	0.45
1:Z:625:ASP:OD1	1:3:607:GLN:NE2	2.48	0.45
1:Z:722:GLU:HG2	1:Z:722:GLU:O	2.15	0.45
1:a:630:PRO:O	1:a:632:PRO:HD3	2.16	0.45
1:b:630:PRO:O	1:b:632:PRO:HD3	2.16	0.45
1:c:452:SER:HA	1:c:457:GLN:HG3	1.97	0.45
1:d:324:THR:HG22	1:d:331:THR:HB	1.98	0.45
1:d:398:PHE:N	1:d:398:PHE:CD1	2.81	0.45
1:d:443:TYR:HH	1:l:547:SER:HG	1.59	0.45
1:e:289:CYS:HB2	1:e:290:HIS:ND1	2.31	0.45
1:f:682:ILE:O	1:f:683:GLU:HB3	2.15	0.45
1:h:347:GLU:OE1	1:h:347:GLU:N	2.41	0.45
1:j:733:ARG:HG2	1:j:734:ASN:O	2.16	0.45
1:o:342:VAL:HG13	1:o:343:PHE:N	2.31	0.45
1:p:289:CYS:HB2	1:p:290:HIS:ND1	2.31	0.45
1:s:324:THR:HG22	1:s:331:THR:HB	1.98	0.45
1:s:398:PHE:N	1:s:398:PHE:CD1	2.81	0.45
1:u:289:CYS:HB2	1:u:290:HIS:ND1	2.31	0.45
1:u:706:LYS:HD2	1:2:386:ALA:O	2.16	0.45
1:v:452:SER:HA	1:v:457:GLN:HG3	1.97	0.45
1:w:289:CYS:HB2	1:w:290:HIS:ND1	2.31	0.45
1:w:449:ASN:HB2	1:x:498:SER:C	2.41	0.45
1:w:581:THR:OG1	1:w:592:THR:O	2.32	0.45
1:x:324:THR:HG22	1:x:331:THR:HB	1.98	0.45
1:1:733:ARG:HG2	1:1:734:ASN:O	2.15	0.45
1:3:347:GLU:OE1	1:3:347:GLU:N	2.41	0.45
1:4:398:PHE:N	1:4:398:PHE:CD1	2.81	0.45
1:6:378:LEU:HD23	1:6:378:LEU:HA	1.75	0.45
1:6:444:TYR:CD1	1:6:445:LEU:N	2.83	0.45
1:6:630:PRO:O	1:6:632:PRO:HD3	2.16	0.45
1:8:289:CYS:HB2	1:8:290:HIS:ND1	2.31	0.45
1:A:342:VAL:HG13	1:A:343:PHE:N	2.31	0.45
1:C:474:SER:N	1:b:518:ASN:HD22	2.13	0.45
1:D:443:TYR:HH	1:N:547:SER:HG	1.63	0.45
1:D:449:ASN:HB2	1:N:498:SER:C	2.41	0.45
1:E:289:CYS:HB2	1:E:290:HIS:ND1	2.31	0.45
1:F:398:PHE:N	1:F:398:PHE:CD1	2.81	0.45
1:F:444:TYR:CD1	1:F:445:LEU:N	2.83	0.45
1:H:462:PHE:HE2	1:W:554:ILE:HG22	1.80	0.45
1:I:582:ASN:OD1	1:I:591:ALA:N	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:598:GLN:HE22	1:L:483:TYR:HE1	1.64	0.45
1:J:614:GLN:N	1:J:614:GLN:OE1	2.50	0.45
1:K:614:GLN:N	1:K:614:GLN:OE1	2.50	0.45
1:L:630:PRO:O	1:L:632:PRO:HD3	2.16	0.45
1:N:449:ASN:HB2	1:P:498:SER:C	2.41	0.45
1:N:462:PHE:CD2	1:P:557:VAL:HG11	2.52	0.45
1:P:324:THR:HG22	1:P:331:THR:HB	1.98	0.45
1:R:658:SER:O	1:R:659:THR:OG1	2.27	0.45
1:S:598:GLN:HE22	1:U:483:TYR:HE1	1.64	0.45
1:U:364:PRO:O	1:U:365:PHE:HB3	2.15	0.45
1:U:706:LYS:HD2	1:e:386:ALA:O	2.16	0.45
1:W:462:PHE:CD2	1:Y:557:VAL:HG11	2.51	0.45
1:X:386:ALA:O	1:f:706:LYS:HD2	2.16	0.45
1:a:462:PHE:CD2	1:8:557:VAL:HG11	2.52	0.45
1:f:614:GLN:N	1:f:614:GLN:OE1	2.50	0.45
1:g:364:PRO:O	1:g:365:PHE:HB3	2.15	0.45
1:h:445:LEU:HD23	1:h:446:SER:O	2.15	0.45
1:i:364:PRO:O	1:i:365:PHE:HB3	2.15	0.45
1:i:483:TYR:HE1	1:k:598:GLN:HE22	1.64	0.45
1:i:658:SER:O	1:i:659:THR:OG1	2.27	0.45
1:k:386:ALA:O	1:w:706:LYS:HD2	2.17	0.45
1:l:614:GLN:N	1:l:614:GLN:OE1	2.50	0.45
1:l:733:ARG:HG2	1:l:734:ASN:O	2.16	0.45
1:o:289:CYS:HB2	1:o:290:HIS:ND1	2.31	0.45
1:o:449:ASN:HB2	1:p:498:SER:C	2.40	0.45
1:p:581:THR:OG1	1:p:592:THR:O	2.32	0.45
1:q:398:PHE:CE1	1:s:692:LYS:HG2	2.51	0.45
1:q:614:GLN:N	1:q:614:GLN:OE1	2.50	0.45
1:r:612:TYR:HD1	1:r:727:GLY:CA	2.30	0.45
1:t:449:ASN:HB2	1:u:498:SER:C	2.41	0.45
1:u:324:THR:HG22	1:u:331:THR:HB	1.98	0.45
1:w:614:GLN:OE1	1:w:614:GLN:N	2.50	0.45
1:y:391:SER:OG	1:y:392:PHE:N	2.44	0.45
1:z:614:GLN:N	1:z:614:GLN:OE1	2.50	0.45
1:z:625:ASP:OD1	1:2:607:GLN:NE2	2.50	0.45
1:1:244:THR:O	1:1:245:ARG:NH1	2.40	0.45
1:2:398:PHE:N	1:2:398:PHE:CD1	2.81	0.45
1:3:483:TYR:HE1	1:4:598:GLN:HE22	1.64	0.45
1:3:630:PRO:O	1:3:632:PRO:HD3	2.16	0.45
1:5:449:ASN:HB2	1:6:498:SER:C	2.42	0.45
1:6:462:PHE:HE2	1:7:554:ILE:HG22	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:449:ASN:HB2	1:J:498:SER:C	2.41	0.45
1:B:518:ASN:HD22	1:L:474:SER:N	2.13	0.45
1:C:630:PRO:O	1:C:632:PRO:HD3	2.16	0.45
1:D:289:CYS:HB2	1:D:290:HIS:ND1	2.31	0.45
1:D:462:PHE:CD2	1:N:557:VAL:HG11	2.52	0.45
1:D:614:GLN:N	1:D:614:GLN:OE1	2.50	0.45
1:E:483:TYR:HE1	1:F:598:GLN:HE22	1.64	0.45
1:E:557:VAL:HG11	1:F:462:PHE:CD2	2.52	0.45
1:G:581:THR:OG1	1:G:592:THR:O	2.32	0.45
1:G:612:TYR:HD1	1:G:727:GLY:CA	2.30	0.45
1:M:614:GLN:N	1:M:614:GLN:OE1	2.50	0.45
1:O:289:CYS:HB2	1:O:290:HIS:ND1	2.31	0.45
1:O:630:PRO:O	1:O:632:PRO:HD3	2.16	0.45
1:P:364:PRO:O	1:P:365:PHE:HB3	2.15	0.45
1:Q:289:CYS:HB2	1:Q:290:HIS:ND1	2.31	0.45
1:R:462:PHE:CD2	1:S:557:VAL:HG11	2.52	0.45
1:R:554:ILE:HG22	1:U:462:PHE:HE2	1.80	0.45
1:R:582:ASN:OD1	1:R:591:ALA:N	2.35	0.45
1:S:712:PHE:HA	1:S:721:SER:O	2.17	0.45
1:U:342:VAL:HG13	1:U:343:PHE:N	2.31	0.45
1:V:391:SER:OG	1:V:392:PHE:N	2.44	0.45
1:V:614:GLN:N	1:V:614:GLN:OE1	2.50	0.45
1:W:553:ASP:OD1	1:W:554:ILE:N	2.46	0.45
1:W:614:GLN:N	1:W:614:GLN:OE1	2.50	0.45
1:Y:612:TYR:HD1	1:Y:727:GLY:CA	2.30	0.45
1:Z:462:PHE:HE2	1:4:554:ILE:HG22	1.80	0.45
1:a:347:GLU:OE1	1:a:347:GLU:N	2.41	0.45
1:a:449:ASN:HB2	1:8:498:SER:C	2.41	0.45
1:a:722:GLU:HG2	1:a:722:GLU:O	2.15	0.45
1:b:324:THR:HG22	1:b:331:THR:HB	1.98	0.45
1:b:581:THR:OG1	1:b:592:THR:O	2.32	0.45
1:b:733:ARG:HG2	1:b:734:ASN:O	2.16	0.45
1:e:364:PRO:O	1:e:365:PHE:HB3	2.15	0.45
1:e:581:THR:OG1	1:e:592:THR:O	2.32	0.45
1:e:614:GLN:N	1:e:614:GLN:OE1	2.50	0.45
1:f:554:ILE:HG22	1:g:462:PHE:HE2	1.80	0.45
1:f:712:PHE:HA	1:f:721:SER:O	2.17	0.45
1:g:304:TRP:CD1	1:g:689:GLU:HA	2.52	0.45
1:h:630:PRO:O	1:h:632:PRO:HD3	2.16	0.45
1:i:398:PHE:CD1	1:i:398:PHE:N	2.81	0.45
1:i:449:ASN:HB2	1:j:498:SER:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:612:TYR:HD1	1:i:727:GLY:CA	2.30	0.45
1:k:630:PRO:O	1:k:632:PRO:HD3	2.16	0.45
1:m:445:LEU:HD23	1:m:446:SER:O	2.15	0.45
1:n:612:TYR:HD1	1:n:727:GLY:CA	2.30	0.45
1:n:614:GLN:N	1:n:614:GLN:OE1	2.50	0.45
1:p:612:TYR:HD1	1:p:727:GLY:CA	2.30	0.45
1:q:343:PHE:HD1	1:q:344:THR:H	1.61	0.45
1:q:449:ASN:HB2	1:r:498:SER:C	2.41	0.45
1:r:614:GLN:N	1:r:614:GLN:OE1	2.50	0.45
1:s:259:GLN:NE2	1:s:273:PHE:CE1	2.84	0.45
1:t:289:CYS:HB2	1:t:290:HIS:ND1	2.31	0.45
1:t:733:ARG:HG2	1:t:734:ASN:O	2.15	0.45
1:u:342:VAL:HG13	1:u:343:PHE:N	2.31	0.45
1:u:598:GLN:HE22	1:v:483:TYR:HE1	1.64	0.45
1:u:712:PHE:HA	1:u:721:SER:O	2.17	0.45
1:v:342:VAL:HG13	1:v:343:PHE:N	2.31	0.45
1:v:608:ASP:HB3	1:v:609:ARG:H	1.53	0.45
1:v:706:LYS:HD2	1:w:386:ALA:O	2.16	0.45
1:w:347:GLU:OE1	1:w:347:GLU:N	2.41	0.45
1:w:462:PHE:CD2	1:x:557:VAL:HG11	2.51	0.45
1:x:462:PHE:CD2	1:y:557:VAL:HG11	2.51	0.45
1:x:712:PHE:HA	1:x:721:SER:O	2.17	0.45
1:y:342:VAL:HG13	1:y:343:PHE:N	2.31	0.45
1:z:557:VAL:HG11	1:2:462:PHE:CD2	2.51	0.45
1:1:658:SER:O	1:1:659:THR:OG1	2.27	0.45
1:2:452:SER:HA	1:2:457:GLN:HG3	1.97	0.45
1:3:289:CYS:HB2	1:3:290:HIS:ND1	2.31	0.45
1:5:733:ARG:HG2	1:5:734:ASN:O	2.16	0.45
1:6:449:ASN:HB2	1:7:498:SER:C	2.41	0.45
1:7:289:CYS:HB2	1:7:290:HIS:ND1	2.31	0.45
1:A:614:GLN:N	1:A:614:GLN:OE1	2.50	0.45
1:B:324:THR:HG22	1:B:331:THR:HB	1.98	0.45
1:B:682:ILE:O	1:B:683:GLU:HB3	2.15	0.45
1:B:733:ARG:HG2	1:B:734:ASN:O	2.15	0.45
1:C:324:THR:HG22	1:C:331:THR:HB	1.98	0.45
1:D:288:HIS:HE2	1:D:614:GLN:HB3	1.78	0.45
1:E:462:PHE:CD2	1:Q:557:VAL:HG11	2.51	0.45
1:F:386:ALA:O	1:R:706:LYS:HD2	2.16	0.45
1:G:682:ILE:O	1:G:683:GLU:HB3	2.15	0.45
1:H:259:GLN:NE2	1:H:273:PHE:CE1	2.84	0.45
1:H:712:PHE:HA	1:H:721:SER:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:444:TYR:HD1	1:I:445:LEU:H	1.62	0.45
1:L:304:TRP:CD1	1:L:689:GLU:HA	2.52	0.45
1:M:386:ALA:O	1:c:706:LYS:HD2	2.17	0.45
1:M:722:GLU:HG2	1:M:722:GLU:O	2.15	0.45
1:N:722:GLU:O	1:N:722:GLU:HG2	2.15	0.45
1:Q:712:PHE:HA	1:Q:721:SER:O	2.17	0.45
1:Q:733:ARG:HG2	1:Q:734:ASN:O	2.15	0.45
1:R:289:CYS:HB2	1:R:290:HIS:ND1	2.31	0.45
1:R:324:THR:HG22	1:R:331:THR:HB	1.98	0.45
1:R:598:GLN:HE22	1:S:483:TYR:HE1	1.64	0.45
1:S:342:VAL:HG13	1:S:343:PHE:N	2.31	0.45
1:T:712:PHE:HA	1:T:721:SER:O	2.17	0.45
1:V:342:VAL:HG13	1:V:343:PHE:N	2.31	0.45
1:V:598:GLN:HE22	1:e:483:TYR:HE1	1.64	0.45
1:V:711:ASP:HB2	1:V:723:PRO:HD2	1.99	0.45
1:W:733:ARG:HG2	1:W:734:ASN:O	2.16	0.45
1:X:712:PHE:HA	1:X:721:SER:O	2.17	0.45
1:Z:445:LEU:HD23	1:Z:446:SER:O	2.15	0.45
1:a:614:GLN:N	1:a:614:GLN:OE1	2.50	0.45
1:b:614:GLN:N	1:b:614:GLN:OE1	2.50	0.45
1:c:304:TRP:CD1	1:c:689:GLU:HA	2.52	0.45
1:c:444:TYR:HD1	1:c:445:LEU:H	1.62	0.45
1:d:452:SER:HA	1:d:457:GLN:HG3	1.97	0.45
1:e:630:PRO:O	1:e:632:PRO:HD3	2.16	0.45
1:g:498:SER:C	1:h:449:ASN:HB2	2.41	0.45
1:g:612:TYR:HD1	1:g:727:GLY:CA	2.30	0.45
1:g:711:ASP:HB2	1:g:723:PRO:HD2	1.99	0.45
1:g:715:ASP:CG	1:g:716:THR:N	2.75	0.45
1:i:462:PHE:CD2	1:j:557:VAL:HG11	2.51	0.45
1:j:259:GLN:NE2	1:j:273:PHE:CE1	2.84	0.45
1:j:614:GLN:N	1:j:614:GLN:OE1	2.50	0.45
1:j:706:LYS:HD2	1:x:386:ALA:O	2.16	0.45
1:j:712:PHE:HA	1:j:721:SER:O	2.17	0.45
1:m:598:GLN:HE22	1:n:483:TYR:HE1	1.64	0.45
1:m:715:ASP:CG	1:m:716:THR:N	2.75	0.45
1:m:722:GLU:O	1:m:722:GLU:HG2	2.15	0.45
1:n:398:PHE:N	1:n:398:PHE:CD1	2.81	0.45
1:o:614:GLN:N	1:o:614:GLN:OE1	2.50	0.45
1:s:712:PHE:HA	1:s:721:SER:O	2.17	0.45
1:t:324:THR:HG22	1:t:331:THR:HB	1.98	0.45
1:t:554:ILE:HG22	1:v:462:PHE:HE2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:347:GLU:OE1	1:v:347:GLU:N	2.41	0.45
1:w:304:TRP:CD1	1:w:689:GLU:HA	2.52	0.45
1:w:630:PRO:O	1:w:632:PRO:HD3	2.16	0.45
1:x:614:GLN:N	1:x:614:GLN:OE1	2.50	0.45
1:x:658:SER:O	1:x:659:THR:OG1	2.27	0.45
1:y:614:GLN:N	1:y:614:GLN:OE1	2.50	0.45
1:y:733:ARG:HG2	1:y:734:ASN:O	2.15	0.45
1:z:462:PHE:HE2	1:1:554:ILE:HG22	1.80	0.45
1:1:712:PHE:HA	1:1:721:SER:O	2.17	0.45
1:2:304:TRP:CD1	1:2:689:GLU:HA	2.52	0.45
1:2:364:PRO:O	1:2:365:PHE:HB3	2.15	0.45
1:4:612:TYR:HD1	1:4:727:GLY:CA	2.30	0.45
1:4:614:GLN:N	1:4:614:GLN:OE1	2.50	0.45
1:4:682:ILE:O	1:4:683:GLU:HB3	2.15	0.45
1:5:289:CYS:HB2	1:5:290:HIS:ND1	2.31	0.45
1:5:364:PRO:O	1:5:365:PHE:HB3	2.15	0.45
1:5:557:VAL:HG11	1:7:462:PHE:CD2	2.51	0.45
1:6:398:PHE:N	1:6:398:PHE:CD1	2.81	0.45
1:6:598:GLN:HE22	1:7:483:TYR:HE1	1.64	0.45
1:6:614:GLN:N	1:6:614:GLN:OE1	2.50	0.45
1:8:364:PRO:O	1:8:365:PHE:HB3	2.15	0.45
1:8:712:PHE:HA	1:8:721:SER:O	2.17	0.45
1:B:289:CYS:HB2	1:B:290:HIS:ND1	2.31	0.45
1:B:614:GLN:N	1:B:614:GLN:OE1	2.50	0.45
1:D:557:VAL:HG11	1:P:462:PHE:CD2	2.52	0.45
1:E:711:ASP:HB2	1:E:723:PRO:HD2	1.99	0.45
1:E:712:PHE:HA	1:E:721:SER:O	2.17	0.45
1:F:612:TYR:O	1:F:613:LEU:HG	2.17	0.45
1:G:614:GLN:N	1:G:614:GLN:OE1	2.50	0.45
1:H:449:ASN:HB2	1:W:498:SER:C	2.42	0.45
1:H:554:ILE:HG22	1:Y:462:PHE:HE2	1.80	0.45
1:H:614:GLN:N	1:H:614:GLN:OE1	2.50	0.45
1:H:630:PRO:O	1:H:632:PRO:HD3	2.16	0.45
1:I:304:TRP:CD1	1:I:689:GLU:HA	2.52	0.45
1:I:612:TYR:HD1	1:I:727:GLY:CA	2.30	0.45
1:J:722:GLU:O	1:J:722:GLU:HG2	2.15	0.45
1:K:288:HIS:HE2	1:K:614:GLN:HB3	1.78	0.45
1:K:289:CYS:HB2	1:K:290:HIS:ND1	2.31	0.45
1:K:462:PHE:CD2	1:a:557:VAL:HG11	2.52	0.45
1:L:712:PHE:HA	1:L:721:SER:O	2.17	0.45
1:M:612:TYR:HD1	1:M:727:GLY:CA	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:317:ASN:HB3	1:N:677:GLN:HG2	1.99	0.45
1:N:598:GLN:HE22	1:P:483:TYR:HE1	1.64	0.45
1:N:614:GLN:N	1:N:614:GLN:OE1	2.50	0.45
1:N:712:PHE:HA	1:N:721:SER:O	2.17	0.45
1:O:498:SER:C	1:n:449:ASN:HB2	2.42	0.45
1:O:706:LYS:HD2	1:P:386:ALA:O	2.16	0.45
1:P:712:PHE:HA	1:P:721:SER:O	2.17	0.45
1:Q:364:PRO:O	1:Q:365:PHE:HB3	2.15	0.45
1:Q:444:TYR:HD1	1:Q:445:LEU:H	1.62	0.45
1:R:612:TYR:HD1	1:R:727:GLY:CA	2.30	0.45
1:R:614:GLN:N	1:R:614:GLN:OE1	2.50	0.45
1:S:304:TRP:CD1	1:S:689:GLU:HA	2.52	0.45
1:S:449:ASN:HB2	1:U:498:SER:C	2.41	0.45
1:U:614:GLN:N	1:U:614:GLN:OE1	2.50	0.45
1:V:289:CYS:HB2	1:V:290:HIS:ND1	2.31	0.45
1:V:612:TYR:HD1	1:V:727:GLY:CA	2.30	0.45
1:V:733:ARG:HG2	1:V:734:ASN:O	2.15	0.45
1:W:449:ASN:HB2	1:Y:498:SER:C	2.41	0.45
1:W:612:TYR:HD1	1:W:727:GLY:CA	2.30	0.45
1:W:711:ASP:HB2	1:W:723:PRO:HD2	1.99	0.45
1:X:557:VAL:HG11	1:e:462:PHE:CD2	2.52	0.45
1:X:614:GLN:N	1:X:614:GLN:OE1	2.50	0.45
1:Y:317:ASN:HB3	1:Y:677:GLN:HG2	1.99	0.45
1:Y:614:GLN:N	1:Y:614:GLN:OE1	2.50	0.45
1:Z:715:ASP:CG	1:Z:716:THR:N	2.75	0.45
1:a:317:ASN:HB3	1:a:677:GLN:HG2	1.99	0.45
1:a:712:PHE:HA	1:a:721:SER:O	2.17	0.45
1:b:452:SER:HA	1:b:457:GLN:HG3	1.97	0.45
1:c:259:GLN:NE2	1:c:273:PHE:CE1	2.84	0.45
1:c:612:TYR:HD1	1:c:727:GLY:CA	2.30	0.45
1:d:304:TRP:CD1	1:d:689:GLU:HA	2.52	0.45
1:d:364:PRO:O	1:d:365:PHE:HB3	2.15	0.45
1:d:711:ASP:HB2	1:d:723:PRO:HD2	1.99	0.45
1:e:304:TRP:CD1	1:e:689:GLU:HA	2.52	0.45
1:f:259:GLN:NE2	1:f:273:PHE:CE1	2.84	0.45
1:f:324:THR:HG22	1:f:331:THR:HB	1.98	0.45
1:f:715:ASP:CG	1:f:716:THR:N	2.75	0.45
1:i:304:TRP:CD1	1:i:689:GLU:HA	2.52	0.45
1:i:462:PHE:HE2	1:j:554:ILE:HG22	1.80	0.45
1:i:711:ASP:HB2	1:i:723:PRO:HD2	1.99	0.45
1:i:715:ASP:CG	1:i:716:THR:N	2.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:715:ASP:CG	1:j:716:THR:N	2.75	0.45
1:k:712:PHE:HA	1:k:721:SER:O	2.17	0.45
1:l:324:THR:HG22	1:l:331:THR:HB	1.98	0.45
1:l:386:ALA:O	1:n:706:LYS:HD2	2.17	0.45
1:m:614:GLN:N	1:m:614:GLN:OE1	2.50	0.45
1:n:682:ILE:O	1:n:683:GLU:HB3	2.15	0.45
1:o:733:ARG:HG2	1:o:734:ASN:O	2.15	0.45
1:p:317:ASN:HB3	1:p:677:GLN:HG2	1.99	0.45
1:p:614:GLN:N	1:p:614:GLN:OE1	2.50	0.45
1:p:682:ILE:O	1:p:683:GLU:HB3	2.15	0.45
1:q:612:TYR:HD1	1:q:727:GLY:CA	2.30	0.45
1:q:711:ASP:HB2	1:q:723:PRO:HD2	1.99	0.45
1:q:733:ARG:HG2	1:q:734:ASN:O	2.15	0.45
1:r:317:ASN:HB3	1:r:677:GLN:HG2	1.99	0.45
1:r:608:ASP:HB3	1:r:609:ARG:H	1.53	0.45
1:s:630:PRO:O	1:s:632:PRO:HD3	2.16	0.45
1:t:244:THR:O	1:t:245:ARG:NH1	2.40	0.45
1:t:498:SER:C	1:v:449:ASN:HB2	2.41	0.45
1:t:557:VAL:HG11	1:v:462:PHE:CD2	2.51	0.45
1:t:614:GLN:N	1:t:614:GLN:OE1	2.50	0.45
1:u:304:TRP:CD1	1:u:689:GLU:HA	2.52	0.45
1:u:614:GLN:N	1:u:614:GLN:OE1	2.50	0.45
1:u:682:ILE:O	1:u:683:GLU:HB3	2.15	0.45
1:w:364:PRO:O	1:w:365:PHE:HB3	2.15	0.45
1:w:733:ARG:HG2	1:w:734:ASN:O	2.16	0.45
1:x:612:TYR:O	1:x:613:LEU:HG	2.17	0.45
1:y:289:CYS:HB2	1:y:290:HIS:ND1	2.31	0.45
1:z:324:THR:HG22	1:z:331:THR:HB	1.98	0.45
1:5:712:PHE:HA	1:5:721:SER:O	2.17	0.45
1:6:715:ASP:CG	1:6:716:THR:N	2.75	0.45
1:7:712:PHE:HA	1:7:721:SER:O	2.17	0.45
1:8:324:THR:HG22	1:8:331:THR:HB	1.98	0.45
1:A:483:TYR:HE1	1:I:598:GLN:HE22	1.65	0.45
1:A:711:ASP:HB2	1:A:723:PRO:HD2	1.99	0.45
1:A:733:ARG:HG2	1:A:734:ASN:O	2.16	0.45
1:B:452:SER:HA	1:B:457:GLN:HG3	1.97	0.45
1:C:304:TRP:CD1	1:C:689:GLU:HA	2.52	0.45
1:C:398:PHE:N	1:C:398:PHE:CD1	2.81	0.45
1:C:557:VAL:HG11	1:M:462:PHE:CD2	2.51	0.45
1:C:712:PHE:HA	1:C:721:SER:O	2.17	0.45
1:D:712:PHE:HA	1:D:721:SER:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:317:ASN:HB3	1:E:677:GLN:HG2	1.99	0.45
1:E:498:SER:C	1:F:449:ASN:HB2	2.42	0.45
1:F:317:ASN:HB3	1:F:677:GLN:HG2	1.99	0.45
1:F:614:GLN:N	1:F:614:GLN:OE1	2.50	0.45
1:G:317:ASN:HB3	1:G:677:GLN:HG2	1.99	0.45
1:H:342:VAL:HG13	1:H:343:PHE:N	2.31	0.45
1:H:462:PHE:CD2	1:W:557:VAL:HG11	2.52	0.45
1:H:557:VAL:HG11	1:Y:462:PHE:CD2	2.52	0.45
1:I:259:GLN:NE2	1:I:273:PHE:CE1	2.84	0.45
1:J:304:TRP:CD1	1:J:689:GLU:HA	2.52	0.45
1:J:462:PHE:CD2	1:L:557:VAL:HG11	2.52	0.45
1:J:612:TYR:HD1	1:J:727:GLY:CA	2.30	0.45
1:K:557:VAL:HG11	1:8:462:PHE:CD2	2.52	0.45
1:L:324:THR:HG22	1:L:331:THR:HB	1.98	0.45
1:L:398:PHE:N	1:L:398:PHE:CD1	2.81	0.45
1:M:498:SER:C	1:b:449:ASN:HB2	2.41	0.45
1:R:244:THR:O	1:R:245:ARG:NH1	2.40	0.45
1:R:711:ASP:HB2	1:R:723:PRO:HD2	1.99	0.45
1:S:614:GLN:N	1:S:614:GLN:OE1	2.50	0.45
1:S:706:LYS:HD2	1:d:386:ALA:O	2.16	0.45
1:T:658:SER:O	1:T:659:THR:OG1	2.27	0.45
1:U:304:TRP:CD1	1:U:689:GLU:HA	2.52	0.45
1:U:452:SER:HA	1:U:457:GLN:HG3	1.97	0.45
1:V:557:VAL:HG11	1:X:462:PHE:CD2	2.52	0.45
1:W:598:GLN:HE22	1:Y:483:TYR:HE1	1.64	0.45
1:X:612:TYR:O	1:X:613:LEU:HG	2.17	0.45
1:Y:612:TYR:O	1:Y:613:LEU:HG	2.17	0.45
1:Z:614:GLN:N	1:Z:614:GLN:OE1	2.50	0.45
1:Z:630:PRO:O	1:Z:632:PRO:HD3	2.16	0.45
1:a:598:GLN:HE22	1:8:483:TYR:HE1	1.64	0.45
1:b:289:CYS:HB2	1:b:290:HIS:ND1	2.31	0.45
1:b:444:TYR:CD1	1:b:445:LEU:N	2.83	0.45
1:b:682:ILE:O	1:b:683:GLU:HB3	2.16	0.45
1:c:378:LEU:HD23	1:c:378:LEU:HA	1.75	0.45
1:c:630:PRO:O	1:c:632:PRO:HD3	2.16	0.45
1:d:598:GLN:HE22	1:l:483:TYR:HE1	1.65	0.45
1:e:342:VAL:HG13	1:e:343:PHE:N	2.31	0.45
1:e:347:GLU:OE1	1:e:347:GLU:N	2.41	0.45
1:e:706:LYS:HD2	1:h:386:ALA:O	2.17	0.45
1:e:733:ARG:HG2	1:e:734:ASN:O	2.16	0.45
1:g:398:PHE:N	1:g:398:PHE:CD1	2.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:715:ASP:CG	1:h:716:THR:N	2.75	0.45
1:i:498:SER:C	1:k:449:ASN:HB2	2.42	0.45
1:i:614:GLN:N	1:i:614:GLN:OE1	2.50	0.45
1:k:612:TYR:HD1	1:k:727:GLY:CA	2.30	0.45
1:n:324:THR:HG22	1:n:331:THR:HB	1.98	0.45
1:n:722:GLU:HG2	1:n:722:GLU:O	2.15	0.45
1:o:711:ASP:HB2	1:o:723:PRO:HD2	1.99	0.45
1:p:386:ALA:O	1:6:706:LYS:HD2	2.17	0.45
1:r:598:GLN:HE22	1:s:483:TYR:HE1	1.64	0.45
1:r:612:TYR:O	1:r:613:LEU:HG	2.17	0.45
1:s:614:GLN:N	1:s:614:GLN:OE1	2.50	0.45
1:t:462:PHE:CD2	1:u:557:VAL:HG11	2.52	0.45
1:t:612:TYR:HD1	1:t:727:GLY:CA	2.30	0.45
1:t:706:LYS:HD2	1:6:386:ALA:O	2.16	0.45
1:t:711:ASP:HB2	1:t:723:PRO:HD2	1.99	0.45
1:w:483:TYR:HE1	1:y:598:GLN:HE22	1.64	0.45
1:x:630:PRO:O	1:x:632:PRO:HD3	2.16	0.45
1:y:612:TYR:HD1	1:y:727:GLY:CA	2.30	0.45
1:y:711:ASP:HB2	1:y:723:PRO:HD2	1.99	0.45
1:1:304:TRP:CD1	1:1:689:GLU:HA	2.52	0.45
1:2:711:ASP:HB2	1:2:723:PRO:HD2	1.99	0.45
1:3:612:TYR:HD1	1:3:727:GLY:CA	2.30	0.45
1:4:324:THR:HG22	1:4:331:THR:HB	1.98	0.45
1:7:317:ASN:HB3	1:7:677:GLN:HG2	1.99	0.45
1:7:614:GLN:N	1:7:614:GLN:OE1	2.50	0.45
1:7:711:ASP:HB2	1:7:723:PRO:HD2	1.99	0.45
1:A:715:ASP:CG	1:A:716:THR:N	2.75	0.45
1:B:444:TYR:CD1	1:B:445:LEU:N	2.83	0.45
1:B:608:ASP:HB3	1:B:609:ARG:H	1.53	0.45
1:D:304:TRP:NE1	1:D:689:GLU:HA	2.32	0.45
1:D:498:SER:C	1:P:449:ASN:HB2	2.41	0.45
1:D:630:PRO:O	1:D:632:PRO:HD3	2.16	0.45
1:E:612:TYR:O	1:E:613:LEU:HG	2.17	0.45
1:F:715:ASP:CG	1:F:716:THR:N	2.75	0.45
1:G:378:LEU:O	1:G:379:THR:OG1	2.26	0.45
1:H:317:ASN:HB3	1:H:677:GLN:HG2	1.99	0.45
1:H:483:TYR:HE1	1:Y:598:GLN:HE22	1.64	0.45
1:I:630:PRO:O	1:I:632:PRO:HD3	2.16	0.45
1:K:712:PHE:HA	1:K:721:SER:O	2.17	0.45
1:M:289:CYS:HB2	1:M:290:HIS:ND1	2.31	0.45
1:M:391:SER:OG	1:M:392:PHE:N	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:347:GLU:OE1	1:N:347:GLU:N	2.41	0.45
1:N:706:LYS:HD2	1:m:386:ALA:O	2.17	0.45
1:O:378:LEU:O	1:O:379:THR:OG1	2.26	0.45
1:O:612:TYR:HD1	1:O:727:GLY:CA	2.30	0.45
1:O:612:TYR:O	1:O:613:LEU:HG	2.17	0.45
1:Q:711:ASP:HB2	1:Q:723:PRO:HD2	1.99	0.45
1:R:557:VAL:HG11	1:U:462:PHE:CD2	2.52	0.45
1:S:317:ASN:HB3	1:S:677:GLN:HG2	1.99	0.45
1:S:581:THR:N	1:S:591:ALA:O	2.37	0.45
1:S:682:ILE:O	1:S:683:GLU:HB3	2.15	0.45
1:U:712:PHE:HA	1:U:721:SER:O	2.17	0.45
1:V:554:ILE:HG22	1:X:462:PHE:HE2	1.80	0.45
1:W:259:GLN:NE2	1:W:273:PHE:CE1	2.84	0.45
1:X:630:PRO:O	1:X:632:PRO:HD3	2.16	0.45
1:Y:443:TYR:CE1	1:Y:464:GLN:HB2	2.52	0.45
1:Z:386:ALA:O	1:a:706:LYS:HD2	2.17	0.45
1:Z:462:PHE:CD2	1:4:557:VAL:HG11	2.52	0.45
1:c:614:GLN:N	1:c:614:GLN:OE1	2.50	0.45
1:e:712:PHE:HA	1:e:721:SER:O	2.17	0.45
1:g:304:TRP:NE1	1:g:689:GLU:HA	2.32	0.45
1:h:387:VAL:HG12	1:h:388:GLY:N	2.32	0.45
1:h:614:GLN:N	1:h:614:GLN:OE1	2.50	0.45
1:h:712:PHE:HA	1:h:721:SER:O	2.17	0.45
1:j:244:THR:O	1:j:245:ARG:NH1	2.40	0.45
1:j:324:THR:HG22	1:j:331:THR:HB	1.98	0.45
1:l:612:TYR:O	1:l:613:LEU:HG	2.17	0.45
1:m:630:PRO:O	1:m:632:PRO:HD3	2.16	0.45
1:o:304:TRP:NE1	1:o:689:GLU:HA	2.32	0.45
1:o:715:ASP:CG	1:o:716:THR:N	2.75	0.45
1:q:259:GLN:NE2	1:q:273:PHE:CE1	2.84	0.45
1:q:304:TRP:NE1	1:q:689:GLU:HA	2.32	0.45
1:q:598:GLN:HE22	1:r:483:TYR:HE1	1.64	0.45
1:r:462:PHE:CD2	1:s:557:VAL:HG11	2.52	0.45
1:r:462:PHE:HE2	1:s:554:ILE:HG22	1.80	0.45
1:r:474:SER:N	1:s:518:ASN:HD22	2.13	0.45
1:t:598:GLN:HE22	1:u:483:TYR:HE1	1.64	0.45
1:t:630:PRO:O	1:t:632:PRO:HD3	2.16	0.45
1:u:449:ASN:HB2	1:v:498:SER:C	2.41	0.45
1:u:581:THR:N	1:u:591:ALA:O	2.37	0.45
1:v:614:GLN:N	1:v:614:GLN:OE1	2.50	0.45
1:v:712:PHE:HA	1:v:721:SER:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:342:VAL:HG13	1:w:343:PHE:N	2.31	0.45
1:w:715:ASP:CG	1:w:716:THR:N	2.75	0.45
1:x:715:ASP:CG	1:x:716:THR:N	2.75	0.45
1:3:612:TYR:O	1:3:613:LEU:HG	2.17	0.45
1:3:706:LYS:HD2	1:8:386:ALA:O	2.16	0.45
1:4:722:GLU:HG2	1:4:722:GLU:O	2.15	0.45
1:5:462:PHE:CD2	1:6:557:VAL:HG11	2.52	0.45
1:6:317:ASN:HB3	1:6:677:GLN:HG2	1.99	0.45
1:6:612:TYR:O	1:6:613:LEU:HG	2.17	0.45
1:7:244:THR:O	1:7:245:ARG:NH1	2.40	0.45
1:8:342:VAL:HG13	1:8:343:PHE:N	2.31	0.45
1:A:304:TRP:CD1	1:A:689:GLU:HA	2.52	0.45
1:A:304:TRP:NE1	1:A:689:GLU:HA	2.32	0.45
1:A:608:ASP:HB3	1:A:609:ARG:H	1.53	0.45
1:B:462:PHE:CD2	1:J:557:VAL:HG11	2.52	0.45
1:C:304:TRP:NE1	1:C:689:GLU:HA	2.32	0.45
1:C:554:ILE:HG22	1:M:462:PHE:HE2	1.80	0.45
1:C:614:GLN:N	1:C:614:GLN:OE1	2.50	0.45
1:D:386:ALA:O	1:E:706:LYS:HD2	2.16	0.45
1:E:614:GLN:N	1:E:614:GLN:OE1	2.50	0.45
1:F:612:TYR:HD1	1:F:727:GLY:CA	2.30	0.45
1:G:326:ASN:O	1:G:329:THR:OG1	2.19	0.45
1:H:547:SER:HG	1:Y:443:TYR:HH	1.62	0.45
1:H:608:ASP:HB3	1:H:609:ARG:H	1.53	0.45
1:I:614:GLN:N	1:I:614:GLN:OE1	2.50	0.45
1:J:342:VAL:HG13	1:J:343:PHE:N	2.31	0.45
1:J:391:SER:OG	1:J:392:PHE:N	2.44	0.45
1:J:462:PHE:HE2	1:L:554:ILE:HG22	1.80	0.45
1:K:317:ASN:HB3	1:K:677:GLN:HG2	1.99	0.45
1:K:630:PRO:O	1:K:632:PRO:HD3	2.16	0.45
1:L:304:TRP:NE1	1:L:689:GLU:HA	2.32	0.45
1:M:304:TRP:CD1	1:M:689:GLU:HA	2.52	0.45
1:M:557:VAL:HG11	1:b:462:PHE:CD2	2.52	0.45
1:O:711:ASP:HB2	1:O:723:PRO:HD2	1.99	0.45
1:P:614:GLN:N	1:P:614:GLN:OE1	2.50	0.45
1:P:715:ASP:CG	1:P:716:THR:N	2.75	0.45
1:Q:347:GLU:OE1	1:Q:347:GLU:N	2.41	0.45
1:Q:612:TYR:HD1	1:Q:727:GLY:CA	2.30	0.45
1:R:630:PRO:O	1:R:632:PRO:HD3	2.16	0.45
1:T:304:TRP:CD1	1:T:689:GLU:HA	2.52	0.45
1:U:582:ASN:OD1	1:U:591:ALA:N	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:304:TRP:NE1	1:V:689:GLU:HA	2.32	0.45
1:V:387:VAL:HG12	1:V:388:GLY:N	2.32	0.45
1:V:483:TYR:HE1	1:X:598:GLN:HE22	1.64	0.45
1:W:304:TRP:NE1	1:W:689:GLU:HA	2.32	0.45
1:W:304:TRP:CD1	1:W:689:GLU:HA	2.52	0.45
1:X:289:CYS:HB2	1:X:290:HIS:ND1	2.31	0.45
1:X:658:SER:O	1:X:659:THR:OG1	2.27	0.45
1:X:715:ASP:CG	1:X:716:THR:N	2.75	0.45
1:Z:317:ASN:HB3	1:Z:677:GLN:HG2	1.99	0.45
1:Z:711:ASP:HB2	1:Z:723:PRO:HD2	1.99	0.45
1:Z:712:PHE:HA	1:Z:721:SER:O	2.17	0.45
1:b:387:VAL:HG12	1:b:388:GLY:N	2.32	0.45
1:c:358:HIS:HA	1:p:440:GLN:HA	1.98	0.45
1:c:715:ASP:CG	1:c:716:THR:N	2.75	0.45
1:f:244:THR:O	1:f:245:ARG:NH1	2.40	0.45
1:f:304:TRP:CD1	1:f:689:GLU:HA	2.52	0.45
1:g:443:TYR:CE1	1:g:464:GLN:HB2	2.52	0.45
1:g:557:VAL:HG11	1:h:462:PHE:CD2	2.51	0.45
1:g:614:GLN:N	1:g:614:GLN:OE1	2.50	0.45
1:h:443:TYR:CE1	1:h:464:GLN:HB2	2.52	0.45
1:h:612:TYR:HD1	1:h:727:GLY:CA	2.30	0.45
1:h:711:ASP:HB2	1:h:723:PRO:HD2	1.99	0.45
1:i:443:TYR:CE1	1:i:464:GLN:HB2	2.52	0.45
1:j:304:TRP:CD1	1:j:689:GLU:HA	2.52	0.45
1:j:612:TYR:HD1	1:j:727:GLY:CA	2.30	0.45
1:k:317:ASN:HB3	1:k:677:GLN:HG2	1.99	0.45
1:k:443:TYR:CE1	1:k:464:GLN:HB2	2.52	0.45
1:k:614:GLN:N	1:k:614:GLN:OE1	2.50	0.45
1:k:711:ASP:HB2	1:k:723:PRO:HD2	1.99	0.45
1:k:715:ASP:CG	1:k:716:THR:N	2.75	0.45
1:l:443:TYR:CE1	1:l:464:GLN:HB2	2.52	0.45
1:o:304:TRP:CD1	1:o:689:GLU:HA	2.52	0.45
1:o:608:ASP:HB3	1:o:609:ARG:H	1.53	0.45
1:r:304:TRP:NE1	1:r:689:GLU:HA	2.32	0.45
1:s:317:ASN:HB3	1:s:677:GLN:HG2	1.99	0.45
1:t:581:THR:N	1:t:591:ALA:O	2.37	0.45
1:u:317:ASN:HB3	1:u:677:GLN:HG2	1.99	0.45
1:v:304:TRP:CD1	1:v:689:GLU:HA	2.52	0.45
1:w:712:PHE:HA	1:w:721:SER:O	2.17	0.45
1:x:462:PHE:HE2	1:y:554:ILE:HG22	1.80	0.45
1:x:598:GLN:HE22	1:y:483:TYR:HE1	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:304:TRP:NE1	1:y:689:GLU:HA	2.32	0.45
1:y:387:VAL:HG12	1:y:388:GLY:N	2.32	0.45
1:z:612:TYR:O	1:z:613:LEU:HG	2.17	0.45
1:3:378:LEU:O	1:3:379:THR:OG1	2.26	0.45
1:3:711:ASP:HB2	1:3:723:PRO:HD2	1.99	0.45
1:4:630:PRO:O	1:4:632:PRO:HD3	2.16	0.45
1:5:317:ASN:HB3	1:5:677:GLN:HG2	1.99	0.45
1:5:444:TYR:HD1	1:5:445:LEU:H	1.62	0.45
1:5:711:ASP:HB2	1:5:723:PRO:HD2	1.99	0.45
1:6:443:TYR:CE1	1:6:464:GLN:HB2	2.52	0.45
1:7:612:TYR:O	1:7:613:LEU:HG	2.17	0.45
1:8:259:GLN:NE2	1:8:273:PHE:CE1	2.84	0.45
1:8:715:ASP:CG	1:8:716:THR:N	2.75	0.45
1:A:625:ASP:OD1	1:I:607:GLN:NE2	2.50	0.45
1:B:387:VAL:HG12	1:B:388:GLY:N	2.32	0.45
1:B:498:SER:C	1:L:449:ASN:HB2	2.41	0.45
1:C:526:HIS:ND1	1:C:527:LYS:O	2.50	0.45
1:C:612:TYR:HD1	1:C:727:GLY:HA3	1.82	0.45
1:D:304:TRP:CD1	1:D:689:GLU:HA	2.52	0.45
1:D:317:ASN:HB3	1:D:677:GLN:HG2	1.99	0.45
1:E:304:TRP:CD1	1:E:689:GLU:HA	2.52	0.45
1:G:560:THR:HG21	1:G:612:TYR:CZ	2.52	0.45
1:H:304:TRP:CD1	1:H:689:GLU:HA	2.52	0.45
1:H:526:HIS:ND1	1:H:527:LYS:O	2.50	0.45
1:I:594:ASP:CG	1:I:595:VAL:N	2.73	0.45
1:I:715:ASP:CG	1:I:716:THR:N	2.75	0.45
1:J:289:CYS:HB2	1:J:290:HIS:ND1	2.31	0.45
1:J:347:GLU:OE1	1:J:347:GLU:N	2.41	0.45
1:K:304:TRP:NE1	1:K:689:GLU:HA	2.32	0.45
1:K:324:THR:HG22	1:K:331:THR:HB	1.98	0.45
1:K:612:TYR:HD1	1:K:727:GLY:HA3	1.82	0.45
1:L:526:HIS:ND1	1:L:527:LYS:O	2.50	0.45
1:L:614:GLN:N	1:L:614:GLN:OE1	2.50	0.45
1:M:342:VAL:HG13	1:M:343:PHE:N	2.31	0.45
1:M:347:GLU:OE1	1:M:347:GLU:N	2.41	0.45
1:N:326:ASN:O	1:N:329:THR:OG1	2.19	0.45
1:N:715:ASP:CG	1:N:716:THR:N	2.75	0.45
1:P:259:GLN:NE2	1:P:273:PHE:CE1	2.84	0.45
1:P:304:TRP:NE1	1:P:689:GLU:HA	2.32	0.45
1:P:317:ASN:HB3	1:P:677:GLN:HG2	1.99	0.45
1:P:342:VAL:HG13	1:P:343:PHE:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:317:ASN:HB3	1:Q:677:GLN:HG2	1.99	0.45
1:Q:614:GLN:N	1:Q:614:GLN:OE1	2.50	0.45
1:R:386:ALA:O	1:V:706:LYS:HD2	2.17	0.45
1:R:612:TYR:HD1	1:R:727:GLY:HA3	1.82	0.45
1:V:715:ASP:CG	1:V:716:THR:N	2.75	0.45
1:W:289:CYS:HB2	1:W:290:HIS:ND1	2.31	0.45
1:W:712:PHE:HA	1:W:721:SER:O	2.17	0.45
1:Y:304:TRP:NE1	1:Y:689:GLU:HA	2.32	0.45
1:a:326:ASN:O	1:a:329:THR:OG1	2.19	0.45
1:b:259:GLN:NE2	1:b:273:PHE:CE1	2.84	0.45
1:b:711:ASP:HB2	1:b:723:PRO:HD2	1.99	0.45
1:c:387:VAL:HG12	1:c:388:GLY:N	2.32	0.45
1:d:304:TRP:NE1	1:d:689:GLU:HA	2.32	0.45
1:d:387:VAL:HG12	1:d:388:GLY:N	2.32	0.45
1:d:443:TYR:OH	1:l:547:SER:OG	2.31	0.45
1:d:443:TYR:CE1	1:d:464:GLN:HB2	2.52	0.45
1:e:443:TYR:CE1	1:e:464:GLN:HB2	2.52	0.45
1:f:387:VAL:HG12	1:f:388:GLY:N	2.32	0.45
1:f:612:TYR:HD1	1:f:727:GLY:CA	2.30	0.45
1:g:386:ALA:O	1:k:706:LYS:HD2	2.16	0.45
1:g:581:THR:OG1	1:g:592:THR:O	2.32	0.45
1:h:317:ASN:HB3	1:h:677:GLN:HG2	1.99	0.45
1:i:304:TRP:NE1	1:i:689:GLU:HA	2.32	0.45
1:i:557:VAL:HG11	1:k:462:PHE:CD2	2.52	0.45
1:i:682:ILE:O	1:i:683:GLU:HB3	2.15	0.45
1:j:317:ASN:HB3	1:j:677:GLN:HG2	1.99	0.45
1:k:387:VAL:HG12	1:k:388:GLY:N	2.32	0.45
1:l:342:VAL:HG13	1:l:343:PHE:N	2.31	0.45
1:l:526:HIS:ND1	1:l:527:LYS:O	2.50	0.45
1:m:304:TRP:CD1	1:m:689:GLU:HA	2.52	0.45
1:m:317:ASN:HB3	1:m:677:GLN:HG2	1.99	0.45
1:m:449:ASN:HB2	1:n:498:SER:C	2.42	0.45
1:m:612:TYR:HD1	1:m:727:GLY:CA	2.30	0.45
1:m:711:ASP:HB2	1:m:723:PRO:HD2	1.99	0.45
1:m:712:PHE:HA	1:m:721:SER:O	2.17	0.45
1:p:378:LEU:O	1:p:379:THR:OG1	2.26	0.45
1:p:560:THR:HG21	1:p:612:TYR:CZ	2.52	0.45
1:q:581:THR:OG1	1:q:592:THR:O	2.32	0.45
1:r:304:TRP:CD1	1:r:689:GLU:HA	2.52	0.45
1:r:443:TYR:CE1	1:r:464:GLN:HB2	2.52	0.45
1:s:304:TRP:CD1	1:s:689:GLU:HA	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:342:VAL:HG13	1:s:343:PHE:N	2.31	0.45
1:s:526:HIS:ND1	1:s:527:LYS:O	2.50	0.45
1:w:443:TYR:CE1	1:w:464:GLN:HB2	2.52	0.45
1:y:526:HIS:ND1	1:y:527:LYS:O	2.50	0.45
1:y:715:ASP:CG	1:y:716:THR:N	2.75	0.45
1:z:342:VAL:HG13	1:z:343:PHE:N	2.31	0.45
1:z:443:TYR:CE1	1:z:464:GLN:HB2	2.52	0.45
1:2:304:TRP:NE1	1:2:689:GLU:HA	2.32	0.45
1:2:443:TYR:CE1	1:2:464:GLN:HB2	2.52	0.45
1:4:304:TRP:NE1	1:4:689:GLU:HA	2.32	0.45
1:5:347:GLU:OE1	1:5:347:GLU:N	2.41	0.45
1:5:594:ASP:CG	1:5:595:VAL:N	2.73	0.45
1:5:612:TYR:HD1	1:5:727:GLY:CA	2.30	0.45
1:6:612:TYR:HD1	1:6:727:GLY:CA	2.30	0.45
1:8:614:GLN:N	1:8:614:GLN:OE1	2.50	0.45
1:A:612:TYR:HD1	1:A:727:GLY:CA	2.30	0.45
1:B:386:ALA:O	1:C:706:LYS:HD2	2.16	0.45
1:B:711:ASP:HB2	1:B:723:PRO:HD2	1.99	0.45
1:C:449:ASN:HB2	1:b:498:SER:C	2.41	0.45
1:C:598:GLN:HE22	1:b:483:TYR:HE1	1.64	0.45
1:D:324:THR:HG22	1:D:331:THR:HB	1.98	0.45
1:D:612:TYR:HD1	1:D:727:GLY:HA3	1.82	0.45
1:D:613:LEU:HD23	1:D:726:ILE:HB	1.99	0.45
1:D:711:ASP:HB2	1:D:723:PRO:HD2	1.99	0.45
1:F:443:TYR:CE1	1:F:464:GLN:HB2	2.52	0.45
1:F:526:HIS:ND1	1:F:527:LYS:O	2.50	0.45
1:F:560:THR:HG21	1:F:612:TYR:CZ	2.52	0.45
1:G:598:GLN:HE22	1:I:483:TYR:HE1	1.65	0.45
1:I:304:TRP:NE1	1:I:689:GLU:HA	2.32	0.45
1:I:387:VAL:HG12	1:I:388:GLY:N	2.32	0.45
1:I:706:LYS:HD2	1:J:386:ALA:O	2.17	0.45
1:J:711:ASP:HB2	1:J:723:PRO:HD2	1.99	0.45
1:J:712:PHE:HA	1:J:721:SER:O	2.17	0.45
1:K:304:TRP:CD1	1:K:689:GLU:HA	2.52	0.45
1:K:386:ALA:O	1:7:706:LYS:HD2	2.16	0.45
1:K:498:SER:C	1:8:449:ASN:HB2	2.41	0.45
1:K:613:LEU:HD23	1:K:726:ILE:HB	1.99	0.45
1:K:711:ASP:HB2	1:K:723:PRO:HD2	1.99	0.45
1:L:612:TYR:HD1	1:L:727:GLY:HA3	1.82	0.45
1:M:711:ASP:HB2	1:M:723:PRO:HD2	1.99	0.45
1:M:712:PHE:HA	1:M:721:SER:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:387:VAL:HG12	1:N:388:GLY:N	2.32	0.45
1:O:557:VAL:HG11	1:n:462:PHE:CD2	2.51	0.45
1:R:612:TYR:O	1:R:613:LEU:HG	2.17	0.45
1:S:612:TYR:HD1	1:S:727:GLY:CA	2.30	0.45
1:S:613:LEU:HD23	1:S:726:ILE:HB	1.99	0.45
1:T:554:ILE:HG22	1:l:462:PHE:HE2	1.81	0.45
1:T:612:TYR:HD1	1:T:727:GLY:CA	2.30	0.45
1:U:560:THR:HG21	1:U:612:TYR:CZ	2.52	0.45
1:V:526:HIS:ND1	1:V:527:LYS:O	2.50	0.45
1:W:715:ASP:CG	1:W:716:THR:N	2.75	0.45
1:Y:304:TRP:CD1	1:Y:689:GLU:HA	2.52	0.45
1:Y:343:PHE:HD1	1:Y:344:THR:H	1.61	0.45
1:Y:613:LEU:HD23	1:Y:726:ILE:HB	1.99	0.45
1:Z:304:TRP:CD1	1:Z:689:GLU:HA	2.52	0.45
1:Z:612:TYR:HD1	1:Z:727:GLY:CA	2.30	0.45
1:a:304:TRP:CD1	1:a:689:GLU:HA	2.52	0.45
1:b:304:TRP:CD1	1:b:689:GLU:HA	2.52	0.45
1:b:612:TYR:O	1:b:613:LEU:HG	2.17	0.45
1:c:304:TRP:NE1	1:c:689:GLU:HA	2.32	0.45
1:c:324:THR:HG22	1:c:331:THR:HB	1.98	0.45
1:c:598:GLN:HE22	1:o:483:TYR:HE1	1.65	0.45
1:d:317:ASN:HB3	1:d:677:GLN:HG2	1.99	0.45
1:d:612:TYR:HD1	1:d:727:GLY:CA	2.30	0.45
1:e:715:ASP:CG	1:e:716:THR:N	2.75	0.45
1:f:317:ASN:HB3	1:f:677:GLN:HG2	1.99	0.45
1:g:682:ILE:O	1:g:683:GLU:HB3	2.15	0.45
1:h:613:LEU:HD23	1:h:726:ILE:HB	1.99	0.45
1:i:289:CYS:HB2	1:i:290:HIS:ND1	2.31	0.45
1:i:317:ASN:HB3	1:i:677:GLN:HG2	1.99	0.45
1:l:612:TYR:HD1	1:l:727:GLY:HA3	1.82	0.45
1:m:387:VAL:HG12	1:m:388:GLY:N	2.32	0.45
1:m:462:PHE:CD2	1:n:557:VAL:HG11	2.52	0.45
1:n:304:TRP:NE1	1:n:689:GLU:HA	2.32	0.45
1:n:612:TYR:HD1	1:n:727:GLY:HA3	1.82	0.45
1:n:630:PRO:O	1:n:632:PRO:HD3	2.16	0.45
1:o:612:TYR:HD1	1:o:727:GLY:CA	2.30	0.45
1:q:289:CYS:HB2	1:q:290:HIS:ND1	2.31	0.45
1:q:304:TRP:CD1	1:q:689:GLU:HA	2.52	0.45
1:q:526:HIS:ND1	1:q:527:LYS:O	2.50	0.45
1:r:324:THR:HG22	1:r:331:THR:HB	1.98	0.45
1:t:386:ALA:O	1:y:706:LYS:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:387:VAL:HG12	1:t:388:GLY:N	2.32	0.45
1:t:526:HIS:ND1	1:t:527:LYS:O	2.50	0.45
1:t:612:TYR:HD1	1:t:727:GLY:HA3	1.82	0.45
1:u:560:THR:HG21	1:u:612:TYR:CZ	2.52	0.45
1:u:613:LEU:HD23	1:u:726:ILE:HB	1.99	0.45
1:v:560:THR:HG21	1:v:612:TYR:CZ	2.52	0.45
1:v:612:TYR:O	1:v:613:LEU:HG	2.17	0.45
1:w:526:HIS:ND1	1:w:527:LYS:O	2.50	0.45
1:x:289:CYS:HB2	1:x:290:HIS:ND1	2.31	0.45
1:z:526:HIS:ND1	1:z:527:LYS:O	2.50	0.45
1:z:612:TYR:HD1	1:z:727:GLY:HA3	1.82	0.45
1:1:443:TYR:CE1	1:1:464:GLN:HB2	2.52	0.45
1:2:317:ASN:HB3	1:2:677:GLN:HG2	1.99	0.45
1:2:387:VAL:HG12	1:2:388:GLY:N	2.32	0.45
1:2:612:TYR:HD1	1:2:727:GLY:CA	2.30	0.45
1:4:612:TYR:HD1	1:4:727:GLY:HA3	1.82	0.45
1:5:304:TRP:CD1	1:5:689:GLU:HA	2.52	0.45
1:5:342:VAL:HG13	1:5:343:PHE:N	2.31	0.45
1:5:614:GLN:N	1:5:614:GLN:OE1	2.50	0.45
1:6:526:HIS:ND1	1:6:527:LYS:O	2.50	0.45
1:8:304:TRP:NE1	1:8:689:GLU:HA	2.32	0.45
1:8:612:TYR:HD1	1:8:727:GLY:HA3	1.82	0.45
1:8:612:TYR:O	1:8:613:LEU:HG	2.17	0.45
1:B:259:GLN:NE2	1:B:273:PHE:CE1	2.84	0.44
1:B:304:TRP:CD1	1:B:689:GLU:HA	2.52	0.44
1:B:557:VAL:HG11	1:L:462:PHE:CD2	2.52	0.44
1:B:612:TYR:HD1	1:B:727:GLY:CA	2.30	0.44
1:B:612:TYR:O	1:B:613:LEU:HG	2.17	0.44
1:C:317:ASN:HB3	1:C:677:GLN:HG2	1.99	0.44
1:E:594:ASP:CG	1:E:595:VAL:N	2.73	0.44
1:F:557:VAL:HG11	1:Q:462:PHE:CD2	2.52	0.44
1:F:711:ASP:HB2	1:F:723:PRO:HD2	1.99	0.44
1:G:304:TRP:NE1	1:G:689:GLU:HA	2.32	0.44
1:H:560:THR:HG21	1:H:612:TYR:CZ	2.52	0.44
1:I:317:ASN:HB3	1:I:677:GLN:HG2	1.99	0.44
1:I:324:THR:HG22	1:I:331:THR:HB	1.98	0.44
1:J:324:THR:HG22	1:J:331:THR:HB	1.98	0.44
1:K:560:THR:HG21	1:K:612:TYR:CZ	2.52	0.44
1:L:317:ASN:HB3	1:L:677:GLN:HG2	1.99	0.44
1:L:706:LYS:HD2	1:b:386:ALA:O	2.16	0.44
1:N:304:TRP:CD1	1:N:689:GLU:HA	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:443:TYR:CE1	1:N:464:GLN:HB2	2.52	0.44
1:N:560:THR:HG21	1:N:612:TYR:CZ	2.52	0.44
1:N:612:TYR:HD1	1:N:727:GLY:CA	2.30	0.44
1:O:614:GLN:N	1:O:614:GLN:OE1	2.50	0.44
1:P:387:VAL:HG12	1:P:388:GLY:N	2.32	0.44
1:P:612:TYR:HD1	1:P:727:GLY:HA3	1.82	0.44
1:P:612:TYR:O	1:P:613:LEU:HG	2.17	0.44
1:Q:304:TRP:CD1	1:Q:689:GLU:HA	2.52	0.44
1:Q:342:VAL:HG13	1:Q:343:PHE:N	2.31	0.44
1:R:342:VAL:HG13	1:R:343:PHE:N	2.31	0.44
1:R:526:HIS:ND1	1:R:527:LYS:O	2.50	0.44
1:S:560:THR:HG21	1:S:612:TYR:CZ	2.52	0.44
1:T:443:TYR:CE1	1:T:464:GLN:HB2	2.52	0.44
1:T:560:THR:HG21	1:T:612:TYR:CZ	2.52	0.44
1:T:715:ASP:CG	1:T:716:THR:N	2.75	0.44
1:U:324:THR:HG22	1:U:331:THR:HB	1.98	0.44
1:U:443:TYR:CE1	1:U:464:GLN:HB2	2.52	0.44
1:U:612:TYR:O	1:U:613:LEU:HG	2.17	0.44
1:V:630:PRO:O	1:V:632:PRO:HD3	2.16	0.44
1:W:612:TYR:O	1:W:613:LEU:HG	2.17	0.44
1:W:630:PRO:O	1:W:632:PRO:HD3	2.16	0.44
1:X:526:HIS:ND1	1:X:527:LYS:O	2.50	0.44
1:Y:324:THR:HG22	1:Y:331:THR:HB	1.98	0.44
1:Z:387:VAL:HG12	1:Z:388:GLY:N	2.32	0.44
1:Z:526:HIS:ND1	1:Z:527:LYS:O	2.50	0.44
1:Z:598:GLN:HE22	1:4:483:TYR:HE1	1.64	0.44
1:Z:612:TYR:O	1:Z:613:LEU:HG	2.17	0.44
1:a:387:VAL:HG12	1:a:388:GLY:N	2.32	0.44
1:a:443:TYR:CE1	1:a:464:GLN:HB2	2.52	0.44
1:a:560:THR:HG21	1:a:612:TYR:CZ	2.52	0.44
1:a:612:TYR:HD1	1:a:727:GLY:CA	2.30	0.44
1:a:715:ASP:CG	1:a:716:THR:N	2.75	0.44
1:c:317:ASN:HB3	1:c:677:GLN:HG2	1.99	0.44
1:c:526:HIS:ND1	1:c:527:LYS:O	2.50	0.44
1:d:560:THR:HG21	1:d:612:TYR:CZ	2.52	0.44
1:e:526:HIS:ND1	1:e:527:LYS:O	2.50	0.44
1:f:304:TRP:NE1	1:f:689:GLU:HA	2.32	0.44
1:g:289:CYS:HB2	1:g:290:HIS:ND1	2.31	0.44
1:g:317:ASN:HB3	1:g:677:GLN:HG2	1.99	0.44
1:g:712:PHE:HA	1:g:721:SER:O	2.17	0.44
1:i:342:VAL:HG13	1:i:343:PHE:N	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:304:TRP:NE1	1:j:689:GLU:HA	2.32	0.44
1:k:613:LEU:HD23	1:k:726:ILE:HB	2.00	0.44
1:l:712:PHE:HA	1:l:721:SER:O	2.17	0.44
1:n:387:VAL:HG12	1:n:388:GLY:N	2.32	0.44
1:p:292:SER:HB3	1:s:694:TRP:CZ3	2.51	0.44
1:p:630:PRO:O	1:p:632:PRO:HD3	2.16	0.44
1:p:706:LYS:HE2	1:q:385:GLN:HG3	2.00	0.44
1:q:612:TYR:O	1:q:613:LEU:HG	2.17	0.44
1:q:715:ASP:CG	1:q:716:THR:N	2.75	0.44
1:r:613:LEU:HD23	1:r:726:ILE:HB	2.00	0.44
1:r:630:PRO:O	1:r:632:PRO:HD3	2.16	0.44
1:s:560:THR:HG21	1:s:612:TYR:CZ	2.52	0.44
1:t:304:TRP:CD1	1:t:689:GLU:HA	2.52	0.44
1:t:342:VAL:HG13	1:t:343:PHE:N	2.31	0.44
1:t:612:TYR:O	1:t:613:LEU:HG	2.17	0.44
1:x:526:HIS:ND1	1:x:527:LYS:O	2.50	0.44
1:x:612:TYR:HD1	1:x:727:GLY:CA	2.30	0.44
1:y:287:PHE:HE1	1:y:684:TRP:HH2	1.65	0.44
1:y:630:PRO:O	1:y:632:PRO:HD3	2.16	0.44
1:z:498:SER:C	1:2:449:ASN:HB2	2.42	0.44
1:z:712:PHE:HA	1:z:721:SER:O	2.17	0.44
1:1:560:THR:HG21	1:1:612:TYR:CZ	2.52	0.44
1:2:244:THR:O	1:2:245:ARG:NH1	2.40	0.44
1:3:614:GLN:N	1:3:614:GLN:OE1	2.50	0.44
1:3:712:PHE:HA	1:3:721:SER:O	2.17	0.44
1:6:560:THR:HG21	1:6:612:TYR:CZ	2.52	0.44
1:6:711:ASP:HB2	1:6:723:PRO:HD2	1.99	0.44
1:8:317:ASN:HB3	1:8:677:GLN:HG2	1.99	0.44
1:8:387:VAL:HG12	1:8:388:GLY:N	2.32	0.44
1:A:324:THR:HG22	1:A:331:THR:HB	1.98	0.44
1:A:560:THR:HG21	1:A:612:TYR:CZ	2.52	0.44
1:C:613:LEU:HD23	1:C:726:ILE:HB	1.99	0.44
1:D:560:THR:HG21	1:D:612:TYR:CZ	2.52	0.44
1:E:244:THR:O	1:E:245:ARG:NH1	2.40	0.44
1:F:244:THR:O	1:F:245:ARG:NH1	2.40	0.44
1:F:304:TRP:NE1	1:F:689:GLU:HA	2.32	0.44
1:F:613:LEU:HD23	1:F:726:ILE:HB	1.99	0.44
1:G:443:TYR:CE1	1:G:464:GLN:HB2	2.52	0.44
1:G:607:GLN:NE2	1:I:625:ASP:OD1	2.50	0.44
1:G:630:PRO:O	1:G:632:PRO:HD3	2.16	0.44
1:H:304:TRP:NE1	1:H:689:GLU:HA	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:613:LEU:HD23	1:I:726:ILE:HB	2.00	0.44
1:J:443:TYR:CE1	1:J:464:GLN:HB2	2.52	0.44
1:K:443:TYR:CE1	1:K:464:GLN:HB2	2.52	0.44
1:K:526:HIS:ND1	1:K:527:LYS:O	2.50	0.44
1:K:706:LYS:HD2	1:L:386:ALA:O	2.17	0.44
1:L:613:LEU:HD23	1:L:726:ILE:HB	1.99	0.44
1:M:443:TYR:CE1	1:M:464:GLN:HB2	2.52	0.44
1:N:259:GLN:NE2	1:N:273:PHE:CE1	2.84	0.44
1:N:612:TYR:O	1:N:613:LEU:HG	2.17	0.44
1:O:555:GLU:OE1	1:O:555:GLU:N	2.46	0.44
1:O:712:PHE:HA	1:O:721:SER:O	2.17	0.44
1:P:594:ASP:CG	1:P:595:VAL:N	2.73	0.44
1:P:630:PRO:O	1:P:632:PRO:HD3	2.16	0.44
1:R:304:TRP:CD1	1:R:689:GLU:HA	2.52	0.44
1:R:387:VAL:HG12	1:R:388:GLY:N	2.32	0.44
1:S:287:PHE:HE1	1:S:684:TRP:HH2	1.66	0.44
1:T:526:HIS:ND1	1:T:527:LYS:O	2.50	0.44
1:U:304:TRP:NE1	1:U:689:GLU:HA	2.32	0.44
1:V:324:THR:HG22	1:V:331:THR:HB	1.98	0.44
1:V:443:TYR:CE1	1:V:464:GLN:HB2	2.52	0.44
1:V:560:THR:HG21	1:V:612:TYR:CZ	2.52	0.44
1:W:287:PHE:HE1	1:W:684:TRP:HH2	1.66	0.44
1:W:526:HIS:ND1	1:W:527:LYS:O	2.50	0.44
1:X:612:TYR:HD1	1:X:727:GLY:CA	2.30	0.44
1:Z:443:TYR:CE1	1:Z:464:GLN:HB2	2.52	0.44
1:Z:612:TYR:HD1	1:Z:727:GLY:HA3	1.82	0.44
1:a:497:ASN:CB	1:a:498:SER:HA	2.45	0.44
1:b:612:TYR:HD1	1:b:727:GLY:CA	2.30	0.44
1:c:594:ASP:CG	1:c:595:VAL:N	2.73	0.44
1:c:613:LEU:HD23	1:c:726:ILE:HB	2.00	0.44
1:c:712:PHE:HA	1:c:721:SER:O	2.17	0.44
1:e:612:TYR:HD1	1:e:727:GLY:CA	2.30	0.44
1:e:612:TYR:O	1:e:613:LEU:HG	2.17	0.44
1:e:711:ASP:HB2	1:e:723:PRO:HD2	1.99	0.44
1:f:342:VAL:HG13	1:f:343:PHE:N	2.31	0.44
1:f:612:TYR:O	1:f:613:LEU:HG	2.17	0.44
1:f:658:SER:O	1:f:659:THR:OG1	2.27	0.44
1:g:342:VAL:HG13	1:g:343:PHE:N	2.31	0.44
1:h:706:LYS:HD2	1:i:386:ALA:O	2.16	0.44
1:i:526:HIS:ND1	1:i:527:LYS:O	2.50	0.44
1:i:598:GLN:HE22	1:j:483:TYR:HE1	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:712:PHE:HA	1:i:721:SER:O	2.17	0.44
1:j:387:VAL:HG12	1:j:388:GLY:N	2.32	0.44
1:j:612:TYR:O	1:j:613:LEU:HG	2.17	0.44
1:l:715:ASP:CG	1:l:716:THR:N	2.75	0.44
1:m:443:TYR:CE1	1:m:464:GLN:HB2	2.52	0.44
1:m:526:HIS:ND1	1:m:527:LYS:O	2.50	0.44
1:m:613:LEU:HD23	1:m:726:ILE:HB	1.99	0.44
1:o:324:THR:HG22	1:o:331:THR:HB	1.98	0.44
1:o:462:PHE:CD2	1:p:557:VAL:HG11	2.51	0.44
1:p:304:TRP:NE1	1:p:689:GLU:HA	2.32	0.44
1:q:287:PHE:HE1	1:q:684:TRP:HH2	1.66	0.44
1:q:630:PRO:O	1:q:632:PRO:HD3	2.16	0.44
1:q:712:PHE:HA	1:q:721:SER:O	2.17	0.44
1:r:712:PHE:HA	1:r:721:SER:O	2.17	0.44
1:s:445:LEU:HD23	1:s:446:SER:O	2.15	0.44
1:t:712:PHE:HA	1:t:721:SER:O	2.17	0.44
1:u:287:PHE:HE1	1:u:684:TRP:HH2	1.66	0.44
1:u:304:TRP:NE1	1:u:689:GLU:HA	2.32	0.44
1:u:612:TYR:HD1	1:u:727:GLY:CA	2.30	0.44
1:v:287:PHE:HE1	1:v:684:TRP:HH2	1.66	0.44
1:v:324:THR:HG22	1:v:331:THR:HB	1.98	0.44
1:v:443:TYR:CE1	1:v:464:GLN:HB2	2.52	0.44
1:v:582:ASN:OD1	1:v:591:ALA:N	2.35	0.44
1:w:259:GLN:NE2	1:w:273:PHE:CE1	2.84	0.44
1:w:378:LEU:HD23	1:w:378:LEU:HA	1.75	0.44
1:w:612:TYR:O	1:w:613:LEU:HG	2.17	0.44
1:w:612:TYR:HD1	1:w:727:GLY:CA	2.30	0.44
1:y:324:THR:HG22	1:y:331:THR:HB	1.98	0.44
1:y:560:THR:HG21	1:y:612:TYR:CZ	2.52	0.44
1:1:526:HIS:ND1	1:1:527:LYS:O	2.50	0.44
1:1:612:TYR:HD1	1:1:727:GLY:CA	2.30	0.44
1:2:560:THR:HG21	1:2:612:TYR:CZ	2.52	0.44
1:6:304:TRP:NE1	1:6:689:GLU:HA	2.32	0.44
1:6:613:LEU:HD23	1:6:726:ILE:HB	1.99	0.44
1:7:304:TRP:CD1	1:7:689:GLU:HA	2.52	0.44
1:7:594:ASP:CG	1:7:595:VAL:N	2.73	0.44
1:8:304:TRP:CD1	1:8:689:GLU:HA	2.52	0.44
1:8:630:PRO:O	1:8:632:PRO:HD3	2.16	0.44
1:A:712:PHE:HA	1:A:721:SER:O	2.17	0.44
1:B:304:TRP:NE1	1:B:689:GLU:HA	2.32	0.44
1:B:483:TYR:HE1	1:L:598:GLN:HE22	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:658:SER:O	1:B:659:THR:OG1	2.27	0.44
1:C:386:ALA:O	1:D:706:LYS:HD2	2.17	0.44
1:C:462:PHE:CD2	1:b:557:VAL:HG11	2.52	0.44
1:D:443:TYR:CE1	1:D:464:GLN:HB2	2.52	0.44
1:D:526:HIS:ND1	1:D:527:LYS:O	2.50	0.44
1:E:387:VAL:HG12	1:E:388:GLY:N	2.32	0.44
1:G:462:PHE:CD2	1:I:557:VAL:HG11	2.52	0.44
1:G:613:LEU:HD23	1:G:726:ILE:HB	2.00	0.44
1:H:445:LEU:HD23	1:H:446:SER:O	2.15	0.44
1:H:613:LEU:HD23	1:H:726:ILE:HB	1.99	0.44
1:I:526:HIS:ND1	1:I:527:LYS:O	2.50	0.44
1:I:712:PHE:HA	1:I:721:SER:O	2.17	0.44
1:J:317:ASN:HB3	1:J:677:GLN:HG2	1.99	0.44
1:M:324:THR:HG22	1:M:331:THR:HB	1.98	0.44
1:P:304:TRP:CD1	1:P:689:GLU:HA	2.52	0.44
1:P:612:TYR:HD1	1:P:727:GLY:CA	2.30	0.44
1:Q:398:PHE:N	1:Q:398:PHE:CD1	2.81	0.44
1:Q:594:ASP:CG	1:Q:595:VAL:N	2.73	0.44
1:Q:686:LEU:O	1:Q:686:LEU:HD12	2.18	0.44
1:S:304:TRP:NE1	1:S:689:GLU:HA	2.32	0.44
1:S:443:TYR:CE1	1:S:464:GLN:HB2	2.52	0.44
1:T:483:TYR:HE1	1:l:598:GLN:HE22	1.64	0.44
1:V:287:PHE:HE1	1:V:684:TRP:HH2	1.66	0.44
1:V:612:TYR:HD1	1:V:727:GLY:HA3	1.82	0.44
1:X:706:LYS:HD2	1:Y:386:ALA:O	2.17	0.44
1:Y:630:PRO:O	1:Y:632:PRO:HD3	2.16	0.44
1:Y:686:LEU:O	1:Y:686:LEU:HD12	2.18	0.44
1:Y:712:PHE:HA	1:Y:721:SER:O	2.17	0.44
1:Z:557:VAL:HG11	1:3:462:PHE:CD2	2.52	0.44
1:a:612:TYR:O	1:a:613:LEU:HG	2.17	0.44
1:c:386:ALA:O	1:s:706:LYS:HD2	2.17	0.44
1:e:378:LEU:HD23	1:e:378:LEU:HA	1.75	0.44
1:f:344:THR:HB	1:f:646:ILE:HG22	2.00	0.44
1:f:449:ASN:HB2	1:h:498:SER:C	2.42	0.44
1:g:387:VAL:HG12	1:g:388:GLY:N	2.32	0.44
1:g:526:HIS:ND1	1:g:527:LYS:O	2.50	0.44
1:j:449:ASN:HB2	1:k:498:SER:C	2.41	0.44
1:j:560:THR:HG21	1:j:612:TYR:CZ	2.52	0.44
1:l:304:TRP:NE1	1:l:689:GLU:HA	2.32	0.44
1:m:612:TYR:HD1	1:m:727:GLY:HA3	1.82	0.44
1:m:612:TYR:O	1:m:613:LEU:HG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:560:THR:HG21	1:o:612:TYR:CZ	2.52	0.44
1:o:706:LYS:HD2	1:7:386:ALA:O	2.16	0.44
1:p:387:VAL:HG12	1:p:388:GLY:N	2.32	0.44
1:p:443:TYR:CE1	1:p:464:GLN:HB2	2.52	0.44
1:p:612:TYR:HD1	1:p:727:GLY:HA3	1.82	0.44
1:p:613:LEU:HD23	1:p:726:ILE:HB	2.00	0.44
1:q:560:THR:HG21	1:q:612:TYR:CZ	2.52	0.44
1:r:477:TRP:CH2	1:s:621:ILE:HG22	2.52	0.44
1:s:304:TRP:NE1	1:s:689:GLU:HA	2.32	0.44
1:s:612:TYR:HD1	1:s:727:GLY:HA3	1.82	0.44
1:t:344:THR:HB	1:t:646:ILE:HG22	2.00	0.44
1:v:612:TYR:HD1	1:v:727:GLY:CA	2.30	0.44
1:w:711:ASP:HB2	1:w:723:PRO:HD2	1.99	0.44
1:x:304:TRP:CD1	1:x:689:GLU:HA	2.52	0.44
1:y:612:TYR:HD1	1:y:727:GLY:HA3	1.82	0.44
1:z:387:VAL:HG12	1:z:388:GLY:N	2.32	0.44
1:z:598:GLN:HE22	1:1:483:TYR:HE1	1.64	0.44
1:z:612:TYR:HD1	1:z:727:GLY:CA	2.30	0.44
1:1:614:GLN:N	1:1:614:GLN:OE1	2.50	0.44
1:1:715:ASP:CG	1:1:716:THR:N	2.75	0.44
1:2:259:GLN:NE2	1:2:273:PHE:CE1	2.84	0.44
1:3:686:LEU:O	1:3:686:LEU:HD12	2.18	0.44
1:4:387:VAL:HG12	1:4:388:GLY:N	2.32	0.44
1:4:594:ASP:CG	1:4:595:VAL:N	2.73	0.44
1:7:387:VAL:HG12	1:7:388:GLY:N	2.32	0.44
1:8:594:ASP:CG	1:8:595:VAL:N	2.73	0.44
1:B:317:ASN:HB3	1:B:677:GLN:HG2	1.99	0.44
1:B:712:PHE:HA	1:B:721:SER:O	2.17	0.44
1:C:560:THR:HG21	1:C:612:TYR:CZ	2.52	0.44
1:D:598:GLN:HE22	1:N:483:TYR:HE1	1.64	0.44
1:D:715:ASP:CG	1:D:716:THR:N	2.75	0.44
1:E:449:ASN:HB2	1:Q:498:SER:C	2.41	0.44
1:E:613:LEU:HD23	1:E:726:ILE:HB	2.00	0.44
1:G:612:TYR:HD1	1:G:727:GLY:HA3	1.82	0.44
1:H:326:ASN:O	1:H:329:THR:OG1	2.19	0.44
1:H:598:GLN:HE22	1:W:483:TYR:HE1	1.64	0.44
1:H:612:TYR:O	1:H:613:LEU:HG	2.17	0.44
1:J:630:PRO:O	1:J:632:PRO:HD3	2.16	0.44
1:K:612:TYR:HD1	1:K:727:GLY:CA	2.30	0.44
1:K:715:ASP:CG	1:K:716:THR:N	2.75	0.44
1:L:560:THR:HG21	1:L:612:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:317:ASN:HB3	1:M:677:GLN:HG2	1.99	0.44
1:P:443:TYR:CE1	1:P:464:GLN:HB2	2.52	0.44
1:Q:304:TRP:NE1	1:Q:689:GLU:HA	2.32	0.44
1:R:344:THR:HB	1:R:646:ILE:HG22	2.00	0.44
1:S:387:VAL:HG12	1:S:388:GLY:N	2.32	0.44
1:T:387:VAL:HG12	1:T:388:GLY:N	2.32	0.44
1:T:614:GLN:N	1:T:614:GLN:OE1	2.50	0.44
1:T:706:LYS:HD2	1:U:386:ALA:O	2.17	0.44
1:T:711:ASP:HB2	1:T:723:PRO:HD2	1.99	0.44
1:U:287:PHE:HE1	1:U:684:TRP:HH2	1.66	0.44
1:U:317:ASN:HB3	1:U:677:GLN:HG2	1.99	0.44
1:U:612:TYR:HD1	1:U:727:GLY:CA	2.30	0.44
1:U:711:ASP:HB2	1:U:723:PRO:HD2	1.99	0.44
1:V:462:PHE:CD2	1:e:557:VAL:HG11	2.52	0.44
1:V:612:TYR:O	1:V:613:LEU:HG	2.17	0.44
1:W:317:ASN:HB3	1:W:677:GLN:HG2	1.99	0.44
1:W:560:THR:HG21	1:W:612:TYR:CZ	2.52	0.44
1:Y:560:THR:HG21	1:Y:612:TYR:CZ	2.52	0.44
1:Z:613:LEU:HD23	1:Z:726:ILE:HB	1.99	0.44
1:a:613:LEU:HD23	1:a:726:ILE:HB	1.99	0.44
1:b:304:TRP:NE1	1:b:689:GLU:HA	2.32	0.44
1:b:608:ASP:HB3	1:b:609:ARG:H	1.53	0.44
1:b:658:SER:O	1:b:659:THR:OG1	2.27	0.44
1:b:712:PHE:HA	1:b:721:SER:O	2.17	0.44
1:d:259:GLN:NE2	1:d:273:PHE:CE1	2.84	0.44
1:d:630:PRO:O	1:d:632:PRO:HD3	2.16	0.44
1:e:304:TRP:NE1	1:e:689:GLU:HA	2.32	0.44
1:e:387:VAL:HG12	1:e:388:GLY:N	2.32	0.44
1:f:557:VAL:HG11	1:g:462:PHE:CD2	2.52	0.44
1:f:560:THR:HG21	1:f:612:TYR:CZ	2.52	0.44
1:f:686:LEU:HD12	1:f:686:LEU:O	2.18	0.44
1:g:324:THR:HG22	1:g:331:THR:HB	1.98	0.44
1:h:439:ASP:CB	1:h:466:GLY:HA3	2.48	0.44
1:i:387:VAL:HG12	1:i:388:GLY:N	2.32	0.44
1:i:612:TYR:HD1	1:i:727:GLY:HA3	1.82	0.44
1:j:344:THR:HB	1:j:646:ILE:HG22	2.00	0.44
1:j:613:LEU:HD23	1:j:726:ILE:HB	2.00	0.44
1:j:686:LEU:HD12	1:j:686:LEU:O	2.18	0.44
1:k:304:TRP:NE1	1:k:689:GLU:HA	2.32	0.44
1:k:439:ASP:CB	1:k:466:GLY:HA3	2.48	0.44
1:l:387:VAL:HG12	1:l:388:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:439:ASP:CB	1:l:466:GLY:HA3	2.48	0.44
1:n:594:ASP:CG	1:n:595:VAL:N	2.73	0.44
1:q:317:ASN:HB3	1:q:677:GLN:HG2	1.99	0.44
1:r:386:ALA:O	1:x:706:LYS:HD2	2.17	0.44
1:s:613:LEU:HD23	1:s:726:ILE:HB	2.00	0.44
1:s:715:ASP:CG	1:s:716:THR:N	2.75	0.44
1:u:387:VAL:HG12	1:u:388:GLY:N	2.32	0.44
1:u:443:TYR:CE1	1:u:464:GLN:HB2	2.52	0.44
1:u:462:PHE:CD2	1:v:557:VAL:HG11	2.52	0.44
1:v:317:ASN:HB3	1:v:677:GLN:HG2	1.99	0.44
1:v:386:ALA:O	1:1:706:LYS:HD2	2.17	0.44
1:v:439:ASP:CB	1:v:466:GLY:HA3	2.48	0.44
1:v:715:ASP:CG	1:v:716:THR:N	2.75	0.44
1:w:304:TRP:NE1	1:w:689:GLU:HA	2.32	0.44
1:w:387:VAL:HG12	1:w:388:GLY:N	2.32	0.44
1:x:304:TRP:NE1	1:x:689:GLU:HA	2.32	0.44
1:y:443:TYR:CE1	1:y:464:GLN:HB2	2.52	0.44
1:z:304:TRP:NE1	1:z:689:GLU:HA	2.32	0.44
1:z:344:THR:HB	1:z:646:ILE:HG22	2.00	0.44
1:1:711:ASP:HB2	1:1:723:PRO:HD2	1.99	0.44
1:2:613:LEU:HD23	1:2:726:ILE:HB	1.99	0.44
1:4:612:TYR:O	1:4:613:LEU:HG	2.17	0.44
1:5:686:LEU:HD12	1:5:686:LEU:O	2.18	0.44
1:6:612:TYR:HD1	1:6:727:GLY:HA3	1.82	0.44
1:8:443:TYR:CE1	1:8:464:GLN:HB2	2.52	0.44
1:A:706:LYS:HD2	1:E:386:ALA:O	2.17	0.44
1:B:287:PHE:HE1	1:B:684:TRP:HH2	1.66	0.44
1:C:612:TYR:HD1	1:C:727:GLY:CA	2.30	0.44
1:D:344:THR:HB	1:D:646:ILE:HG22	2.00	0.44
1:D:612:TYR:O	1:D:613:LEU:HG	2.17	0.44
1:E:612:TYR:HD1	1:E:727:GLY:HA3	1.82	0.44
1:F:612:TYR:HD1	1:F:727:GLY:HA3	1.82	0.44
1:G:378:LEU:HD23	1:G:378:LEU:HA	1.75	0.44
1:G:387:VAL:HG12	1:G:388:GLY:N	2.32	0.44
1:H:402:MET:HE3	1:H:651:THR:HG21	2.00	0.44
1:H:612:TYR:HD1	1:H:727:GLY:HA3	1.82	0.44
1:I:443:TYR:CE1	1:I:464:GLN:HB2	2.52	0.44
1:I:560:THR:HG21	1:I:612:TYR:CZ	2.52	0.44
1:I:711:ASP:HB2	1:I:723:PRO:HD2	1.99	0.44
1:J:613:LEU:HD23	1:J:726:ILE:HB	2.00	0.44
1:K:344:THR:HB	1:K:646:ILE:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:612:TYR:O	1:K:613:LEU:HG	2.17	0.44
1:M:630:PRO:O	1:M:632:PRO:HD3	2.16	0.44
1:N:613:LEU:HD23	1:N:726:ILE:HB	2.00	0.44
1:O:686:LEU:HD12	1:O:686:LEU:O	2.18	0.44
1:P:526:HIS:ND1	1:P:527:LYS:O	2.50	0.44
1:P:711:ASP:HB2	1:P:723:PRO:HD2	1.99	0.44
1:Q:443:TYR:CE1	1:Q:464:GLN:HB2	2.52	0.44
1:R:304:TRP:NE1	1:R:689:GLU:HA	2.32	0.44
1:R:712:PHE:HA	1:R:721:SER:O	2.17	0.44
1:S:344:THR:HB	1:S:646:ILE:HG22	2.00	0.44
1:S:375:TYR:CG	1:S:376:GLY:N	2.86	0.44
1:S:462:PHE:CD2	1:U:557:VAL:HG11	2.52	0.44
1:S:532:LYS:HE2	1:S:533:PHE:CZ	2.53	0.44
1:T:612:TYR:HD1	1:T:727:GLY:HA3	1.82	0.44
1:U:387:VAL:HG12	1:U:388:GLY:N	2.32	0.44
1:U:439:ASP:CB	1:U:466:GLY:HA3	2.48	0.44
1:Y:715:ASP:CG	1:Y:716:THR:N	2.75	0.44
1:Z:304:TRP:NE1	1:Z:689:GLU:HA	2.32	0.44
1:Z:560:THR:HG21	1:Z:612:TYR:CZ	2.52	0.44
1:b:317:ASN:HB3	1:b:677:GLN:HG2	1.99	0.44
1:c:344:THR:HB	1:c:646:ILE:HG22	2.00	0.44
1:c:443:TYR:CE1	1:c:464:GLN:HB2	2.52	0.44
1:c:560:THR:HG21	1:c:612:TYR:CZ	2.52	0.44
1:c:612:TYR:O	1:c:613:LEU:HG	2.17	0.44
1:d:526:HIS:ND1	1:d:527:LYS:O	2.50	0.44
1:d:581:THR:OG1	1:d:592:THR:O	2.32	0.44
1:d:612:TYR:O	1:d:613:LEU:HG	2.17	0.44
1:d:613:LEU:HD23	1:d:726:ILE:HB	1.99	0.44
1:d:614:GLN:N	1:d:614:GLN:OE1	2.50	0.44
1:d:712:PHE:HA	1:d:721:SER:O	2.17	0.44
1:e:398:PHE:CD1	1:e:398:PHE:N	2.81	0.44
1:f:613:LEU:HD23	1:f:726:ILE:HB	2.00	0.44
1:g:344:THR:HB	1:g:646:ILE:HG22	2.00	0.44
1:g:612:TYR:HD1	1:g:727:GLY:HA3	1.82	0.44
1:g:686:LEU:HD12	1:g:686:LEU:O	2.18	0.44
1:h:304:TRP:NE1	1:h:689:GLU:HA	2.32	0.44
1:i:344:THR:HB	1:i:646:ILE:HG22	2.00	0.44
1:i:612:TYR:O	1:i:613:LEU:HG	2.17	0.44
1:i:686:LEU:O	1:i:686:LEU:HD12	2.18	0.44
1:j:342:VAL:HG13	1:j:343:PHE:N	2.31	0.44
1:k:304:TRP:CD1	1:k:689:GLU:HA	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:344:THR:HB	1:l:646:ILE:HG22	2.00	0.44
1:l:612:TYR:HD1	1:l:727:GLY:CA	2.30	0.44
1:m:304:TRP:NE1	1:m:689:GLU:HA	2.32	0.44
1:m:560:THR:HG21	1:m:612:TYR:CZ	2.52	0.44
1:o:612:TYR:HD1	1:o:727:GLY:HA3	1.82	0.44
1:o:712:PHE:HA	1:o:721:SER:O	2.17	0.44
1:p:378:LEU:HD23	1:p:378:LEU:HA	1.75	0.44
1:p:711:ASP:HB2	1:p:723:PRO:HD2	1.99	0.44
1:q:387:VAL:HG12	1:q:388:GLY:N	2.32	0.44
1:q:483:TYR:HE1	1:s:598:GLN:HE22	1.64	0.44
1:r:526:HIS:ND1	1:r:527:LYS:O	2.50	0.44
1:r:560:THR:HG21	1:r:612:TYR:CZ	2.52	0.44
1:r:686:LEU:HD12	1:r:686:LEU:O	2.18	0.44
1:r:715:ASP:CG	1:r:716:THR:N	2.75	0.44
1:t:532:LYS:HE2	1:t:533:PHE:CZ	2.53	0.44
1:t:560:THR:HG21	1:t:612:TYR:CZ	2.52	0.44
1:u:344:THR:HB	1:u:646:ILE:HG22	2.00	0.44
1:u:532:LYS:HE2	1:u:533:PHE:CZ	2.53	0.44
1:v:304:TRP:NE1	1:v:689:GLU:HA	2.32	0.44
1:v:711:ASP:HB2	1:v:723:PRO:HD2	1.99	0.44
1:w:402:MET:HE3	1:w:651:THR:HG21	2.00	0.44
1:z:439:ASP:CB	1:z:466:GLY:HA3	2.48	0.44
1:1:387:VAL:HG12	1:1:388:GLY:N	2.32	0.44
1:2:526:HIS:ND1	1:2:527:LYS:O	2.50	0.44
1:2:612:TYR:O	1:2:613:LEU:HG	2.17	0.44
1:2:630:PRO:O	1:2:632:PRO:HD3	2.16	0.44
1:2:706:LYS:HD2	1:3:386:ALA:O	2.16	0.44
1:3:557:VAL:HG11	1:4:462:PHE:CD2	2.52	0.44
1:5:304:TRP:NE1	1:5:689:GLU:HA	2.32	0.44
1:5:443:TYR:CE1	1:5:464:GLN:HB2	2.52	0.44
1:5:498:SER:C	1:7:449:ASN:HB2	2.41	0.44
1:7:613:LEU:HD23	1:7:726:ILE:HB	1.99	0.44
1:8:612:TYR:HD1	1:8:727:GLY:CA	2.30	0.44
1:A:398:PHE:CE1	1:I:692:LYS:HG2	2.53	0.44
1:A:484:ARG:HH11	1:A:574:GLU:C	2.26	0.44
1:A:526:HIS:ND1	1:A:527:LYS:O	2.50	0.44
1:A:612:TYR:HD1	1:A:727:GLY:HA3	1.82	0.44
1:B:686:LEU:O	1:B:686:LEU:HD12	2.18	0.44
1:C:612:TYR:O	1:C:613:LEU:HG	2.17	0.44
1:D:612:TYR:HD1	1:D:727:GLY:CA	2.30	0.44
1:E:560:THR:HG21	1:E:612:TYR:CZ	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:581:THR:OG1	1:E:592:THR:O	2.32	0.44
1:E:612:TYR:HD1	1:E:727:GLY:CA	2.30	0.44
1:F:304:TRP:CD1	1:F:689:GLU:HA	2.52	0.44
1:G:711:ASP:HB2	1:G:723:PRO:HD2	1.99	0.44
1:H:387:VAL:HG12	1:H:388:GLY:N	2.32	0.44
1:H:711:ASP:HB2	1:H:723:PRO:HD2	1.99	0.44
1:J:439:ASP:CB	1:J:466:GLY:HA3	2.48	0.44
1:K:598:GLN:HE22	1:a:483:TYR:HE1	1.64	0.44
1:L:612:TYR:HD1	1:L:727:GLY:CA	2.30	0.44
1:M:402:MET:HE3	1:M:651:THR:HG21	2.00	0.44
1:M:439:ASP:CB	1:M:466:GLY:HA3	2.48	0.44
1:M:613:LEU:HD23	1:M:726:ILE:HB	2.00	0.44
1:N:287:PHE:HE1	1:N:684:TRP:HH2	1.65	0.44
1:N:497:ASN:CB	1:N:498:SER:HA	2.45	0.44
1:N:526:HIS:ND1	1:N:527:LYS:O	2.50	0.44
1:O:443:TYR:CE1	1:O:464:GLN:HB2	2.52	0.44
1:O:462:PHE:CD2	1:m:557:VAL:HG11	2.52	0.44
1:O:560:THR:HG21	1:O:612:TYR:CZ	2.52	0.44
1:P:613:LEU:HD23	1:P:726:ILE:HB	2.00	0.44
1:Q:532:LYS:HE2	1:Q:533:PHE:CZ	2.53	0.44
1:Q:560:THR:HG21	1:Q:612:TYR:CZ	2.52	0.44
1:R:443:TYR:CE1	1:R:464:GLN:HB2	2.52	0.44
1:R:532:LYS:HE2	1:R:533:PHE:CZ	2.53	0.44
1:R:560:THR:HG21	1:R:612:TYR:CZ	2.52	0.44
1:R:613:LEU:HD23	1:R:726:ILE:HB	1.99	0.44
1:S:526:HIS:ND1	1:S:527:LYS:O	2.50	0.44
1:S:612:TYR:HD1	1:S:727:GLY:HA3	1.82	0.44
1:T:344:THR:HB	1:T:646:ILE:HG22	2.00	0.44
1:T:375:TYR:CG	1:T:376:GLY:N	2.86	0.44
1:T:497:ASN:CB	1:T:498:SER:HA	2.45	0.44
1:T:581:THR:OG1	1:T:592:THR:O	2.32	0.44
1:T:613:LEU:HD23	1:T:726:ILE:HB	2.00	0.44
1:U:715:ASP:CG	1:U:716:THR:N	2.75	0.44
1:W:387:VAL:HG12	1:W:388:GLY:N	2.32	0.44
1:W:545:GLN:HA	1:W:546:GLY:HA2	1.77	0.44
1:X:304:TRP:CD1	1:X:689:GLU:HA	2.52	0.44
1:X:304:TRP:NE1	1:X:689:GLU:HA	2.32	0.44
1:X:344:THR:HB	1:X:646:ILE:HG22	2.00	0.44
1:Y:287:PHE:HE1	1:Y:684:TRP:HH2	1.66	0.44
1:a:526:HIS:ND1	1:a:527:LYS:O	2.50	0.44
1:b:287:PHE:HE1	1:b:684:TRP:HH2	1.66	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:244:THR:O	1:d:245:ARG:NH1	2.40	0.44
1:e:317:ASN:HB3	1:e:677:GLN:HG2	1.99	0.44
1:e:402:MET:HE3	1:e:651:THR:HG21	2.00	0.44
1:f:375:TYR:CG	1:f:376:GLY:N	2.86	0.44
1:f:483:TYR:HE1	1:g:598:GLN:HE22	1.64	0.44
1:g:612:TYR:O	1:g:613:LEU:HG	2.17	0.44
1:g:630:PRO:O	1:g:632:PRO:HD3	2.16	0.44
1:h:532:LYS:HE2	1:h:533:PHE:CZ	2.53	0.44
1:i:324:THR:HG22	1:i:331:THR:HB	1.98	0.44
1:i:630:PRO:O	1:i:632:PRO:HD3	2.16	0.44
1:j:375:TYR:CG	1:j:376:GLY:N	2.86	0.44
1:j:526:HIS:ND1	1:j:527:LYS:O	2.50	0.44
1:l:304:TRP:CD1	1:l:689:GLU:HA	2.52	0.44
1:n:344:THR:HB	1:n:646:ILE:HG22	2.00	0.44
1:o:317:ASN:HB3	1:o:677:GLN:HG2	1.99	0.44
1:o:354:LEU:O	1:o:356:SER:N	2.47	0.44
1:r:287:PHE:HE1	1:r:684:TRP:HH2	1.66	0.44
1:r:711:ASP:HB2	1:r:723:PRO:HD2	1.99	0.44
1:s:387:VAL:HG12	1:s:388:GLY:N	2.32	0.44
1:s:402:MET:HE3	1:s:651:THR:HG21	2.00	0.44
1:s:443:TYR:CE1	1:s:464:GLN:HB2	2.52	0.44
1:s:612:TYR:O	1:s:613:LEU:HG	2.17	0.44
1:t:304:TRP:NE1	1:t:689:GLU:HA	2.32	0.44
1:t:443:TYR:CE1	1:t:464:GLN:HB2	2.52	0.44
1:t:613:LEU:HD23	1:t:726:ILE:HB	2.00	0.44
1:u:375:TYR:CG	1:u:376:GLY:N	2.86	0.44
1:u:612:TYR:HD1	1:u:727:GLY:HA3	1.82	0.44
1:u:612:TYR:O	1:u:613:LEU:HG	2.17	0.44
1:w:317:ASN:HB3	1:w:677:GLN:HG2	1.99	0.44
1:w:398:PHE:N	1:w:398:PHE:CD1	2.81	0.44
1:w:613:LEU:HD23	1:w:726:ILE:HB	1.99	0.44
1:x:344:THR:HB	1:x:646:ILE:HG22	2.00	0.44
1:z:715:ASP:CG	1:z:716:THR:N	2.75	0.44
1:1:287:PHE:HE1	1:1:684:TRP:HH2	1.66	0.44
1:1:613:LEU:HD23	1:1:726:ILE:HB	1.99	0.44
1:2:614:GLN:N	1:2:614:GLN:OE1	2.50	0.44
1:3:443:TYR:CE1	1:3:464:GLN:HB2	2.52	0.44
1:4:712:PHE:HA	1:4:721:SER:O	2.17	0.44
1:5:387:VAL:HG12	1:5:388:GLY:N	2.32	0.44
1:5:398:PHE:N	1:5:398:PHE:CD1	2.81	0.44
1:5:532:LYS:HE2	1:5:533:PHE:CZ	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:244:THR:O	1:6:245:ARG:NH1	2.40	0.44
1:7:612:TYR:HD1	1:7:727:GLY:HA3	1.82	0.44
1:8:526:HIS:ND1	1:8:527:LYS:O	2.50	0.44
1:8:613:LEU:HD23	1:8:726:ILE:HB	2.00	0.44
1:8:711:ASP:HB2	1:8:723:PRO:HD2	1.99	0.44
1:A:317:ASN:HB3	1:A:677:GLN:HG2	1.99	0.44
1:A:375:TYR:CG	1:A:376:GLY:N	2.86	0.44
1:B:375:TYR:CG	1:B:376:GLY:N	2.86	0.44
1:C:439:ASP:CB	1:C:466:GLY:HA3	2.48	0.44
1:C:443:TYR:CE1	1:C:464:GLN:HB2	2.52	0.44
1:C:592:THR:HG22	1:C:593:ALA:H	1.83	0.44
1:D:375:TYR:CG	1:D:376:GLY:N	2.86	0.44
1:D:439:ASP:CB	1:D:466:GLY:HA3	2.48	0.44
1:E:532:LYS:HE2	1:E:533:PHE:CZ	2.53	0.44
1:E:598:GLN:HE22	1:Q:483:TYR:HE1	1.64	0.44
1:E:686:LEU:HD12	1:E:686:LEU:O	2.18	0.44
1:F:402:MET:HE3	1:F:651:THR:HG21	2.00	0.44
1:G:344:THR:HB	1:G:646:ILE:HG22	2.00	0.44
1:G:484:ARG:HH11	1:G:574:GLU:C	2.26	0.44
1:G:532:LYS:HE2	1:G:533:PHE:CZ	2.53	0.44
1:H:715:ASP:CG	1:H:716:THR:N	2.75	0.44
1:I:344:THR:HB	1:I:646:ILE:HG22	2.00	0.44
1:I:612:TYR:O	1:I:613:LEU:HG	2.17	0.44
1:J:402:MET:HE3	1:J:651:THR:HG21	2.00	0.44
1:J:553:ASP:OD1	1:J:554:ILE:N	2.46	0.44
1:K:439:ASP:CB	1:K:466:GLY:HA3	2.48	0.44
1:L:378:LEU:HA	1:L:378:LEU:HD23	1.75	0.44
1:L:439:ASP:CB	1:L:466:GLY:HA3	2.48	0.44
1:L:686:LEU:HD12	1:L:686:LEU:O	2.18	0.44
1:M:612:TYR:HD1	1:M:727:GLY:HA3	1.82	0.44
1:O:532:LYS:HE2	1:O:533:PHE:CZ	2.53	0.44
1:Q:387:VAL:HG12	1:Q:388:GLY:N	2.32	0.44
1:Q:612:TYR:HD1	1:Q:727:GLY:HA3	1.82	0.44
1:R:439:ASP:CB	1:R:466:GLY:HA3	2.48	0.44
1:S:439:ASP:CB	1:S:466:GLY:HA3	2.48	0.44
1:S:612:TYR:O	1:S:613:LEU:HG	2.17	0.44
1:T:287:PHE:HE1	1:T:684:TRP:HH2	1.66	0.44
1:T:398:PHE:CE1	1:l:692:LYS:HG2	2.53	0.44
1:U:314:LYS:HB2	1:U:679:SER:HB3	2.00	0.44
1:U:526:HIS:ND1	1:U:527:LYS:O	2.50	0.44
1:U:612:TYR:HD1	1:U:727:GLY:HA3	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:484:ARG:HH11	1:V:574:GLU:C	2.26	0.44
1:X:402:MET:HE3	1:X:651:THR:HG21	2.00	0.44
1:Y:526:HIS:ND1	1:Y:527:LYS:O	2.50	0.44
1:Y:711:ASP:HB2	1:Y:723:PRO:HD2	1.99	0.44
1:Z:354:LEU:O	1:Z:356:SER:N	2.47	0.44
1:Z:621:ILE:HG22	1:3:477:TRP:CH2	2.53	0.44
1:b:686:LEU:O	1:b:686:LEU:HD12	2.18	0.44
1:c:711:ASP:HB2	1:c:723:PRO:HD2	1.99	0.44
1:e:560:THR:HG21	1:e:612:TYR:CZ	2.52	0.44
1:e:612:TYR:HD1	1:e:727:GLY:HA3	1.82	0.44
1:e:613:LEU:HD23	1:e:726:ILE:HB	1.99	0.44
1:f:526:HIS:ND1	1:f:527:LYS:O	2.50	0.44
1:g:375:TYR:CG	1:g:376:GLY:N	2.86	0.44
1:g:613:LEU:HD23	1:g:726:ILE:HB	1.99	0.44
1:h:304:TRP:CD1	1:h:689:GLU:HA	2.52	0.44
1:h:612:TYR:O	1:h:613:LEU:HG	2.17	0.44
1:k:287:PHE:HE1	1:k:684:TRP:HH2	1.65	0.44
1:k:532:LYS:HE2	1:k:533:PHE:CZ	2.53	0.44
1:m:658:SER:O	1:m:659:THR:OG1	2.27	0.44
1:n:443:TYR:CE1	1:n:464:GLN:HB2	2.52	0.44
1:n:612:TYR:O	1:n:613:LEU:HG	2.17	0.44
1:n:658:SER:O	1:n:659:THR:OG1	2.27	0.44
1:n:712:PHE:HA	1:n:721:SER:O	2.17	0.44
1:o:314:LYS:HB2	1:o:679:SER:HB3	2.00	0.44
1:o:375:TYR:CG	1:o:376:GLY:N	2.86	0.44
1:o:484:ARG:HH11	1:o:574:GLU:C	2.26	0.44
1:p:484:ARG:HH11	1:p:574:GLU:C	2.26	0.44
1:p:532:LYS:HE2	1:p:533:PHE:CZ	2.53	0.44
1:r:375:TYR:CG	1:r:376:GLY:N	2.86	0.44
1:t:439:ASP:CB	1:t:466:GLY:HA3	2.48	0.44
1:u:439:ASP:CB	1:u:466:GLY:HA3	2.48	0.44
1:u:526:HIS:ND1	1:u:527:LYS:O	2.50	0.44
1:v:387:VAL:HG12	1:v:388:GLY:N	2.32	0.44
1:w:557:VAL:HG11	1:y:462:PHE:CD2	2.52	0.44
1:w:560:THR:HG21	1:w:612:TYR:CZ	2.52	0.44
1:w:612:TYR:HD1	1:w:727:GLY:HA3	1.82	0.44
1:x:545:GLN:HA	1:x:546:GLY:HA2	1.77	0.44
1:y:612:TYR:O	1:y:613:LEU:HG	2.17	0.44
1:y:712:PHE:HA	1:y:721:SER:O	2.17	0.44
1:z:692:LYS:HG2	1:1:398:PHE:CE1	2.53	0.44
1:1:344:THR:HB	1:1:646:ILE:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:375:TYR:CG	1:1:376:GLY:N	2.86	0.44
1:1:497:ASN:CB	1:1:498:SER:HA	2.45	0.44
1:1:598:GLN:HE22	1:2:483:TYR:HE1	1.65	0.44
1:1:612:TYR:HD1	1:1:727:GLY:HA3	1.82	0.44
1:3:387:VAL:HG12	1:3:388:GLY:N	2.32	0.44
1:3:560:THR:HG21	1:3:612:TYR:CZ	2.52	0.44
1:5:560:THR:HG21	1:5:612:TYR:CZ	2.52	0.44
1:5:612:TYR:HD1	1:5:727:GLY:HA3	1.82	0.44
1:6:304:TRP:CD1	1:6:689:GLU:HA	2.52	0.44
1:6:402:MET:HE3	1:6:651:THR:HG21	2.00	0.44
1:7:304:TRP:NE1	1:7:689:GLU:HA	2.32	0.44
1:7:532:LYS:HE2	1:7:533:PHE:CZ	2.53	0.44
1:7:560:THR:HG21	1:7:612:TYR:CZ	2.52	0.44
1:7:612:TYR:HD1	1:7:727:GLY:CA	2.30	0.44
1:A:314:LYS:HB2	1:A:679:SER:HB3	2.00	0.44
1:A:439:ASP:CB	1:A:466:GLY:HA3	2.48	0.44
1:A:532:LYS:HE2	1:A:533:PHE:CZ	2.53	0.44
1:B:621:ILE:HG22	1:L:477:TRP:CH2	2.53	0.44
1:C:477:TRP:CH2	1:b:621:ILE:HG22	2.53	0.44
1:C:686:LEU:O	1:C:686:LEU:HD12	2.18	0.44
1:D:686:LEU:HD12	1:D:686:LEU:O	2.18	0.44
1:E:439:ASP:CB	1:E:466:GLY:HA3	2.48	0.44
1:E:443:TYR:CE1	1:E:464:GLN:HB2	2.52	0.44
1:E:715:ASP:CG	1:E:716:THR:N	2.75	0.44
1:G:304:TRP:CD1	1:G:689:GLU:HA	2.52	0.44
1:G:439:ASP:CB	1:G:466:GLY:HA3	2.48	0.44
1:G:526:HIS:ND1	1:G:527:LYS:O	2.50	0.44
1:G:686:LEU:HD12	1:G:686:LEU:O	2.18	0.44
1:H:443:TYR:CE1	1:H:464:GLN:HB2	2.52	0.44
1:J:612:TYR:HD1	1:J:727:GLY:HA3	1.82	0.44
1:K:375:TYR:CG	1:K:376:GLY:N	2.86	0.44
1:L:443:TYR:CE1	1:L:464:GLN:HB2	2.52	0.44
1:L:612:TYR:O	1:L:613:LEU:HG	2.17	0.44
1:O:304:TRP:CD1	1:O:689:GLU:HA	2.52	0.44
1:O:378:LEU:HD23	1:O:378:LEU:HA	1.75	0.44
1:O:386:ALA:O	1:d:706:LYS:HD2	2.17	0.44
1:O:715:ASP:CG	1:O:716:THR:N	2.75	0.44
1:Q:484:ARG:HH11	1:Q:574:GLU:C	2.26	0.44
1:T:317:ASN:HB3	1:T:677:GLN:HG2	1.99	0.44
1:T:402:MET:HE3	1:T:651:THR:HG21	2.00	0.44
1:U:686:LEU:O	1:U:686:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:304:TRP:CD1	1:V:689:GLU:HA	2.52	0.44
1:X:387:VAL:HG12	1:X:388:GLY:N	2.32	0.44
1:X:443:TYR:CE1	1:X:464:GLN:HB2	2.52	0.44
1:X:612:TYR:HD1	1:X:727:GLY:HA3	1.82	0.44
1:Y:375:TYR:CG	1:Y:376:GLY:N	2.86	0.44
1:Y:449:ASN:O	1:Y:450:THR:OG1	2.20	0.44
1:Z:439:ASP:CB	1:Z:466:GLY:HA3	2.48	0.44
1:Z:532:LYS:HE2	1:Z:533:PHE:CZ	2.53	0.44
1:a:287:PHE:HE1	1:a:684:TRP:HH2	1.66	0.44
1:b:375:TYR:CG	1:b:376:GLY:N	2.86	0.44
1:c:483:TYR:HE1	1:p:598:GLN:HE22	1.66	0.44
1:f:314:LYS:HB2	1:f:679:SER:HB3	2.00	0.44
1:f:402:MET:HE3	1:f:651:THR:HG21	2.00	0.44
1:f:443:TYR:CE1	1:f:464:GLN:HB2	2.52	0.44
1:g:287:PHE:HE1	1:g:684:TRP:HH2	1.66	0.44
1:g:621:ILE:HG22	1:h:477:TRP:CH2	2.53	0.44
1:h:287:PHE:HE1	1:h:684:TRP:HH2	1.66	0.44
1:i:375:TYR:CG	1:i:376:GLY:N	2.86	0.44
1:i:613:LEU:HD23	1:i:726:ILE:HB	1.99	0.44
1:j:314:LYS:HB2	1:j:679:SER:HB3	2.00	0.44
1:j:443:TYR:CE1	1:j:464:GLN:HB2	2.52	0.44
1:k:402:MET:HE3	1:k:651:THR:HG21	2.00	0.44
1:k:612:TYR:O	1:k:613:LEU:HG	2.17	0.44
1:l:592:THR:HG22	1:l:593:ALA:H	1.83	0.44
1:m:439:ASP:CB	1:m:466:GLY:HA3	2.48	0.44
1:n:317:ASN:HB3	1:n:677:GLN:HG2	1.99	0.44
1:n:613:LEU:HD23	1:n:726:ILE:HB	2.00	0.44
1:o:439:ASP:CB	1:o:466:GLY:HA3	2.48	0.44
1:o:532:LYS:HE2	1:o:533:PHE:CZ	2.53	0.44
1:o:592:THR:HG22	1:o:593:ALA:H	1.83	0.44
1:o:686:LEU:HD12	1:o:686:LEU:O	2.18	0.44
1:p:344:THR:HB	1:p:646:ILE:HG22	2.00	0.44
1:p:526:HIS:ND1	1:p:527:LYS:O	2.50	0.44
1:p:686:LEU:O	1:p:686:LEU:HD12	2.18	0.44
1:q:443:TYR:OH	1:r:547:SER:OG	2.29	0.44
1:s:326:ASN:O	1:s:329:THR:OG1	2.19	0.44
1:s:711:ASP:HB2	1:s:723:PRO:HD2	1.99	0.44
1:v:314:LYS:HB2	1:v:679:SER:HB3	2.00	0.44
1:v:526:HIS:ND1	1:v:527:LYS:O	2.50	0.44
1:v:686:LEU:HD12	1:v:686:LEU:O	2.18	0.44
1:x:387:VAL:HG12	1:x:388:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:502:TRP:CD1	1:x:502:TRP:H	2.36	0.44
1:x:612:TYR:HD1	1:x:727:GLY:HA3	1.82	0.44
1:y:304:TRP:CD1	1:y:689:GLU:HA	2.52	0.44
1:y:375:TYR:CG	1:y:376:GLY:N	2.86	0.44
1:y:484:ARG:HH11	1:y:574:GLU:C	2.26	0.44
1:z:304:TRP:CD1	1:z:689:GLU:HA	2.52	0.44
1:z:462:PHE:CD2	1:1:557:VAL:HG11	2.53	0.44
1:2:439:ASP:CB	1:2:466:GLY:HA3	2.48	0.44
1:2:581:THR:OG1	1:2:592:THR:O	2.32	0.44
1:2:686:LEU:O	1:2:686:LEU:HD12	2.18	0.44
1:2:712:PHE:HA	1:2:721:SER:O	2.17	0.44
1:3:304:TRP:CD1	1:3:689:GLU:HA	2.52	0.44
1:4:304:TRP:CD1	1:4:689:GLU:HA	2.52	0.44
1:4:443:TYR:CE1	1:4:464:GLN:HB2	2.52	0.44
1:4:613:LEU:HD23	1:4:726:ILE:HB	1.99	0.44
1:5:613:LEU:HD23	1:5:726:ILE:HB	2.00	0.44
1:5:621:ILE:HG22	1:7:477:TRP:CH2	2.53	0.44
1:7:439:ASP:CB	1:7:466:GLY:HA3	2.48	0.44
1:7:686:LEU:O	1:7:686:LEU:HD12	2.18	0.44
1:7:715:ASP:CG	1:7:716:THR:N	2.75	0.44
1:A:612:TYR:O	1:A:613:LEU:HG	2.17	0.44
1:A:686:LEU:HD12	1:A:686:LEU:O	2.18	0.44
1:B:526:HIS:ND1	1:B:527:LYS:O	2.50	0.44
1:C:402:MET:HE3	1:C:651:THR:HG21	2.00	0.44
1:D:484:ARG:HH11	1:D:574:GLU:C	2.26	0.44
1:E:304:TRP:NE1	1:E:689:GLU:HA	2.32	0.44
1:E:477:TRP:CH2	1:Q:621:ILE:HG22	2.53	0.44
1:E:526:HIS:ND1	1:E:527:LYS:O	2.50	0.44
1:F:397:TYR:HB3	1:F:398:PHE:CD1	2.53	0.44
1:F:532:LYS:HE2	1:F:533:PHE:CZ	2.53	0.44
1:I:439:ASP:CB	1:I:466:GLY:HA3	2.48	0.44
1:J:304:TRP:NE1	1:J:689:GLU:HA	2.32	0.44
1:J:484:ARG:HH11	1:J:574:GLU:C	2.26	0.44
1:J:532:LYS:HE2	1:J:533:PHE:CZ	2.53	0.44
1:K:387:VAL:HG12	1:K:388:GLY:N	2.32	0.44
1:K:686:LEU:HD12	1:K:686:LEU:O	2.18	0.44
1:L:277:THR:CG2	1:L:375:TYR:HB3	2.48	0.44
1:L:397:TYR:HB3	1:L:398:PHE:CD1	2.53	0.44
1:L:402:MET:HE3	1:L:651:THR:HG21	2.00	0.44
1:M:532:LYS:HE2	1:M:533:PHE:CZ	2.53	0.44
1:N:304:TRP:NE1	1:N:689:GLU:HA	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:532:LYS:HE2	1:N:533:PHE:CZ	2.53	0.44
1:O:477:TRP:CH2	1:m:621:ILE:HG22	2.53	0.44
1:P:344:THR:HB	1:P:646:ILE:HG22	2.00	0.44
1:Q:613:LEU:HD23	1:Q:726:ILE:HB	2.00	0.44
1:R:317:ASN:HB3	1:R:677:GLN:HG2	1.99	0.44
1:R:477:TRP:CH2	1:S:621:ILE:HG22	2.53	0.44
1:T:304:TRP:NE1	1:T:689:GLU:HA	2.32	0.44
1:T:532:LYS:HE2	1:T:533:PHE:CZ	2.53	0.44
1:U:402:MET:HE3	1:U:651:THR:HG21	2.00	0.44
1:V:317:ASN:HB3	1:V:677:GLN:HG2	1.99	0.44
1:V:375:TYR:CG	1:V:376:GLY:N	2.86	0.44
1:V:439:ASP:CB	1:V:466:GLY:HA3	2.48	0.44
1:V:712:PHE:HA	1:V:721:SER:O	2.17	0.44
1:X:397:TYR:HB3	1:X:398:PHE:CD1	2.53	0.44
1:X:502:TRP:H	1:X:502:TRP:CD1	2.36	0.44
1:X:613:LEU:HD23	1:X:726:ILE:HB	1.99	0.44
1:a:314:LYS:HB2	1:a:679:SER:HB3	2.00	0.44
1:a:439:ASP:CB	1:a:466:GLY:HA3	2.48	0.44
1:a:532:LYS:HE2	1:a:533:PHE:CZ	2.53	0.44
1:b:526:HIS:ND1	1:b:527:LYS:O	2.50	0.44
1:c:547:SER:HG	1:p:443:TYR:HH	1.65	0.44
1:d:686:LEU:HD12	1:d:686:LEU:O	2.18	0.44
1:e:344:THR:HB	1:e:646:ILE:HG22	2.00	0.44
1:f:502:TRP:CD1	1:f:502:TRP:H	2.36	0.44
1:g:560:THR:HG21	1:g:612:TYR:CZ	2.52	0.44
1:h:402:MET:HE3	1:h:651:THR:HG21	2.00	0.44
1:h:526:HIS:ND1	1:h:527:LYS:O	2.50	0.44
1:h:686:LEU:HD12	1:h:686:LEU:O	2.18	0.44
1:i:560:THR:HG21	1:i:612:TYR:CZ	2.52	0.44
1:j:402:MET:HE3	1:j:651:THR:HG21	2.00	0.44
1:j:439:ASP:CB	1:j:466:GLY:HA3	2.48	0.44
1:k:526:HIS:ND1	1:k:527:LYS:O	2.50	0.44
1:k:686:LEU:HD12	1:k:686:LEU:O	2.18	0.44
1:l:317:ASN:HB3	1:l:677:GLN:HG2	1.99	0.44
1:l:686:LEU:O	1:l:686:LEU:HD12	2.18	0.44
1:m:314:LYS:HB2	1:m:679:SER:HB3	2.00	0.44
1:m:532:LYS:HE2	1:m:533:PHE:CZ	2.53	0.44
1:n:402:MET:HE3	1:n:651:THR:HG21	2.00	0.44
1:o:526:HIS:ND1	1:o:527:LYS:O	2.50	0.44
1:o:612:TYR:O	1:o:613:LEU:HG	2.17	0.44
1:p:304:TRP:CD1	1:p:689:GLU:HA	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:368:ASP:OD2	1:q:665:LYS:HB3	2.17	0.44
1:p:706:LYS:HD2	1:q:386:ALA:O	2.18	0.44
1:q:439:ASP:CB	1:q:466:GLY:HA3	2.48	0.44
1:t:317:ASN:HB3	1:t:677:GLN:HG2	1.99	0.44
1:v:402:MET:HE3	1:v:651:THR:HG21	2.00	0.44
1:v:612:TYR:HD1	1:v:727:GLY:HA3	1.82	0.44
1:w:344:THR:HB	1:w:646:ILE:HG22	2.00	0.44
1:w:686:LEU:HD12	1:w:686:LEU:O	2.18	0.44
1:x:277:THR:CG2	1:x:375:TYR:HB3	2.48	0.44
1:x:287:PHE:HE1	1:x:684:TRP:HH2	1.66	0.44
1:x:397:TYR:HB3	1:x:398:PHE:CD1	2.53	0.44
1:x:402:MET:HE3	1:x:651:THR:HG21	2.00	0.44
1:x:581:THR:OG1	1:x:592:THR:O	2.32	0.44
1:x:592:THR:HG22	1:x:593:ALA:H	1.83	0.44
1:y:317:ASN:HB3	1:y:677:GLN:HG2	1.99	0.44
1:y:439:ASP:CB	1:y:466:GLY:HA3	2.48	0.44
1:y:545:GLN:HA	1:y:546:GLY:HA2	1.77	0.44
1:1:304:TRP:NE1	1:1:689:GLU:HA	2.32	0.44
1:1:402:MET:HE3	1:1:651:THR:HG21	2.00	0.44
1:1:532:LYS:HE2	1:1:533:PHE:CZ	2.53	0.44
1:2:378:LEU:HD23	1:2:378:LEU:HA	1.75	0.44
1:3:532:LYS:HE2	1:3:533:PHE:CZ	2.53	0.44
1:3:715:ASP:CG	1:3:716:THR:N	2.75	0.44
1:4:317:ASN:HB3	1:4:677:GLN:HG2	1.99	0.44
1:4:344:THR:HB	1:4:646:ILE:HG22	2.00	0.44
1:4:532:LYS:HE2	1:4:533:PHE:CZ	2.53	0.44
1:5:484:ARG:HH11	1:5:574:GLU:C	2.26	0.44
1:6:344:THR:HB	1:6:646:ILE:HG22	2.00	0.44
1:6:439:ASP:CB	1:6:466:GLY:HA3	2.48	0.44
1:6:532:LYS:HE2	1:6:533:PHE:CZ	2.53	0.44
1:8:344:THR:HB	1:8:646:ILE:HG22	2.00	0.44
1:A:354:LEU:O	1:A:356:SER:N	2.47	0.43
1:A:499:GLU:HA	1:I:448:THR:CG2	2.47	0.43
1:A:592:THR:HG22	1:A:593:ALA:H	1.83	0.43
1:B:560:THR:HG21	1:B:612:TYR:CZ	2.52	0.43
1:B:613:LEU:HD23	1:B:726:ILE:HB	1.99	0.43
1:C:354:LEU:O	1:C:356:SER:N	2.47	0.43
1:C:397:TYR:HB3	1:C:398:PHE:CD1	2.53	0.43
1:C:711:ASP:HB2	1:C:723:PRO:HD2	1.99	0.43
1:D:397:TYR:HB3	1:D:398:PHE:CD1	2.53	0.43
1:D:402:MET:HE3	1:D:651:THR:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:344:THR:HB	1:F:646:ILE:HG22	2.00	0.43
1:F:439:ASP:CB	1:F:466:GLY:HA3	2.48	0.43
1:H:375:TYR:CG	1:H:376:GLY:N	2.86	0.43
1:H:397:TYR:HB3	1:H:398:PHE:CD1	2.53	0.43
1:H:706:LYS:HD2	1:I:386:ALA:O	2.17	0.43
1:I:397:TYR:HB3	1:I:398:PHE:CD1	2.53	0.43
1:J:344:THR:HB	1:J:646:ILE:HG22	2.00	0.43
1:J:375:TYR:CG	1:J:376:GLY:N	2.86	0.43
1:J:387:VAL:HG12	1:J:388:GLY:N	2.32	0.43
1:J:477:TRP:CH2	1:L:621:ILE:HG22	2.53	0.43
1:K:397:TYR:HB3	1:K:398:PHE:CD1	2.53	0.43
1:K:402:MET:HE3	1:K:651:THR:HG21	2.00	0.43
1:K:484:ARG:HH11	1:K:574:GLU:C	2.26	0.43
1:L:711:ASP:HB2	1:L:723:PRO:HD2	1.99	0.43
1:M:375:TYR:CG	1:M:376:GLY:N	2.86	0.43
1:M:484:ARG:HH11	1:M:574:GLU:C	2.26	0.43
1:M:553:ASP:OD1	1:M:554:ILE:N	2.46	0.43
1:M:592:THR:HG22	1:M:593:ALA:H	1.83	0.43
1:M:612:TYR:O	1:M:613:LEU:HG	2.17	0.43
1:N:314:LYS:HB2	1:N:679:SER:HB3	2.00	0.43
1:N:429:SER:OG	1:N:431:ASP:OD1	2.18	0.43
1:N:439:ASP:CB	1:N:466:GLY:HA3	2.48	0.43
1:N:477:TRP:CH2	1:P:621:ILE:HG22	2.53	0.43
1:O:304:TRP:NE1	1:O:689:GLU:HA	2.32	0.43
1:O:387:VAL:HG12	1:O:388:GLY:N	2.32	0.43
1:O:545:GLN:HA	1:O:546:GLY:HA2	1.77	0.43
1:P:354:LEU:O	1:P:356:SER:N	2.47	0.43
1:P:532:LYS:HE2	1:P:533:PHE:CZ	2.53	0.43
1:Q:526:HIS:ND1	1:Q:527:LYS:O	2.50	0.43
1:Q:658:SER:O	1:Q:659:THR:OG1	2.27	0.43
1:T:686:LEU:HD12	1:T:686:LEU:O	2.18	0.43
1:U:344:THR:HB	1:U:646:ILE:HG22	2.00	0.43
1:W:342:VAL:HG13	1:W:343:PHE:N	2.31	0.43
1:W:439:ASP:CB	1:W:466:GLY:HA3	2.48	0.43
1:W:443:TYR:OH	1:Y:547:SER:OG	2.29	0.43
1:W:582:ASN:OD1	1:W:591:ALA:N	2.35	0.43
1:X:287:PHE:HE1	1:X:684:TRP:HH2	1.66	0.43
1:X:592:THR:HG22	1:X:593:ALA:H	1.83	0.43
1:Y:397:TYR:HB3	1:Y:398:PHE:CD1	2.53	0.43
1:Y:439:ASP:CB	1:Y:466:GLY:HA3	2.48	0.43
1:Y:502:TRP:CD1	1:Y:502:TRP:H	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:314:LYS:HB2	1:Z:679:SER:HB3	2.00	0.43
1:b:439:ASP:CB	1:b:466:GLY:HA3	2.48	0.43
1:c:397:TYR:HB3	1:c:398:PHE:CD1	2.53	0.43
1:c:439:ASP:CB	1:c:466:GLY:HA3	2.48	0.43
1:c:466:GLY:N	1:c:473:GLN:HE22	2.16	0.43
1:c:532:LYS:HE2	1:c:533:PHE:CZ	2.53	0.43
1:c:625:ASP:OD1	1:p:607:GLN:NE2	2.51	0.43
1:c:692:LYS:HG2	1:o:398:PHE:CE1	2.53	0.43
1:d:378:LEU:HA	1:d:378:LEU:HD23	1.75	0.43
1:d:439:ASP:CB	1:d:466:GLY:HA3	2.48	0.43
1:d:532:LYS:HE2	1:d:533:PHE:CZ	2.53	0.43
1:e:375:TYR:CG	1:e:376:GLY:N	2.86	0.43
1:f:439:ASP:CB	1:f:466:GLY:HA3	2.48	0.43
1:f:452:SER:OG	1:f:456:THR:O	2.27	0.43
1:f:592:THR:HG22	1:f:593:ALA:N	2.34	0.43
1:h:397:TYR:HB3	1:h:398:PHE:CD1	2.53	0.43
1:i:477:TRP:CH2	1:j:621:ILE:HG22	2.53	0.43
1:i:484:ARG:HH11	1:i:574:GLU:C	2.26	0.43
1:j:502:TRP:CD1	1:j:502:TRP:H	2.36	0.43
1:j:532:LYS:HE2	1:j:533:PHE:CZ	2.53	0.43
1:k:397:TYR:HB3	1:k:398:PHE:CD1	2.53	0.43
1:l:484:ARG:HH11	1:l:574:GLU:C	2.26	0.43
1:m:402:MET:HE3	1:m:651:THR:HG21	2.00	0.43
1:n:304:TRP:CD1	1:n:689:GLU:HA	2.52	0.43
1:n:314:LYS:HB2	1:n:679:SER:HB3	2.00	0.43
1:n:532:LYS:HE2	1:n:533:PHE:CZ	2.53	0.43
1:o:277:THR:CG2	1:o:375:TYR:HB3	2.48	0.43
1:p:439:ASP:CB	1:p:466:GLY:HA3	2.48	0.43
1:q:443:TYR:CE1	1:q:464:GLN:HB2	2.52	0.43
1:r:397:TYR:HB3	1:r:398:PHE:CD1	2.53	0.43
1:r:439:ASP:CB	1:r:466:GLY:HA3	2.48	0.43
1:r:484:ARG:HH11	1:r:574:GLU:C	2.26	0.43
1:r:612:TYR:HD1	1:r:727:GLY:HA3	1.82	0.43
1:s:314:LYS:HB2	1:s:679:SER:HB3	2.00	0.43
1:s:354:LEU:O	1:s:356:SER:N	2.47	0.43
1:s:375:TYR:CG	1:s:376:GLY:N	2.86	0.43
1:s:484:ARG:HH11	1:s:574:GLU:C	2.26	0.43
1:t:354:LEU:O	1:t:356:SER:N	2.47	0.43
1:t:477:TRP:CH2	1:u:621:ILE:HG22	2.53	0.43
1:v:532:LYS:HE2	1:v:533:PHE:CZ	2.53	0.43
1:w:375:TYR:CG	1:w:376:GLY:N	2.86	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:439:ASP:CB	1:x:466:GLY:HA3	2.48	0.43
1:x:443:TYR:CE1	1:x:464:GLN:HB2	2.52	0.43
1:x:509:HIS:HB3	1:x:514:ASP:OD1	2.19	0.43
1:x:613:LEU:HD23	1:x:726:ILE:HB	1.99	0.43
1:z:484:ARG:HH11	1:z:574:GLU:C	2.26	0.43
1:z:592:THR:HG22	1:z:593:ALA:H	1.83	0.43
1:z:686:LEU:HD12	1:z:686:LEU:O	2.18	0.43
1:1:317:ASN:HB3	1:1:677:GLN:HG2	1.99	0.43
1:1:612:TYR:O	1:1:613:LEU:HG	2.17	0.43
1:2:342:VAL:HG13	1:2:343:PHE:N	2.31	0.43
1:2:397:TYR:HB3	1:2:398:PHE:CD1	2.53	0.43
1:3:304:TRP:NE1	1:3:689:GLU:HA	2.32	0.43
1:3:526:HIS:ND1	1:3:527:LYS:O	2.50	0.43
1:4:402:MET:HE3	1:4:651:THR:HG21	2.00	0.43
1:4:429:SER:OG	1:4:431:ASP:OD1	2.18	0.43
1:4:526:HIS:ND1	1:4:527:LYS:O	2.50	0.43
1:5:483:TYR:HE1	1:7:598:GLN:HE22	1.64	0.43
1:5:526:HIS:ND1	1:5:527:LYS:O	2.50	0.43
1:6:314:LYS:HB2	1:6:679:SER:HB3	2.00	0.43
1:6:397:TYR:HB3	1:6:398:PHE:CD1	2.53	0.43
1:7:443:TYR:CE1	1:7:464:GLN:HB2	2.52	0.43
1:7:484:ARG:HH11	1:7:574:GLU:C	2.26	0.43
1:8:532:LYS:HE2	1:8:533:PHE:CZ	2.53	0.43
1:A:277:THR:CG2	1:A:375:TYR:HB3	2.49	0.43
1:A:287:PHE:HE1	1:A:684:TRP:HH2	1.66	0.43
1:A:692:LYS:HG2	1:G:398:PHE:CE1	2.53	0.43
1:B:352:TYR:CZ	1:B:354:LEU:HD13	2.54	0.43
1:B:397:TYR:HB3	1:B:398:PHE:CD1	2.53	0.43
1:B:439:ASP:CB	1:B:466:GLY:HA3	2.48	0.43
1:B:470:ILE:C	1:B:472:ASP:N	2.76	0.43
1:C:277:THR:CG2	1:C:375:TYR:HB3	2.48	0.43
1:D:387:VAL:HG12	1:D:388:GLY:N	2.32	0.43
1:D:621:ILE:HG22	1:P:477:TRP:CH2	2.54	0.43
1:E:484:ARG:HH11	1:E:574:GLU:C	2.26	0.43
1:E:658:SER:O	1:E:659:THR:OG1	2.27	0.43
1:F:387:VAL:HG12	1:F:388:GLY:N	2.32	0.43
1:F:712:PHE:HA	1:F:721:SER:O	2.17	0.43
1:G:277:THR:CG2	1:G:375:TYR:HB3	2.48	0.43
1:H:612:TYR:HD1	1:H:727:GLY:CA	2.30	0.43
1:I:466:GLY:N	1:I:473:GLN:HE22	2.17	0.43
1:I:502:TRP:H	1:I:502:TRP:CD1	2.36	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:509:HIS:HB3	1:I:514:ASP:OD1	2.19	0.43
1:I:532:LYS:HE2	1:I:533:PHE:CZ	2.53	0.43
1:J:592:THR:HG22	1:J:593:ALA:H	1.83	0.43
1:K:621:ILE:HG22	1:8:477:TRP:CH2	2.54	0.43
1:L:354:LEU:O	1:L:356:SER:N	2.47	0.43
1:L:387:VAL:HG12	1:L:388:GLY:N	2.32	0.43
1:L:592:THR:HG22	1:L:593:ALA:H	1.83	0.43
1:M:304:TRP:NE1	1:M:689:GLU:HA	2.32	0.43
1:M:344:THR:HB	1:M:646:ILE:HG22	2.00	0.43
1:M:387:VAL:HG12	1:M:388:GLY:N	2.32	0.43
1:M:509:HIS:HB3	1:M:514:ASP:OD1	2.18	0.43
1:O:397:TYR:HB3	1:O:398:PHE:CD1	2.53	0.43
1:O:526:HIS:ND1	1:O:527:LYS:O	2.50	0.43
1:P:611:VAL:O	1:P:727:GLY:HA2	2.19	0.43
1:S:555:GLU:OE1	1:S:555:GLU:N	2.46	0.43
1:S:620:LYS:HD3	1:S:642:PRO:CD	2.49	0.43
1:S:715:ASP:CG	1:S:716:THR:N	2.75	0.43
1:T:342:VAL:HG13	1:T:343:PHE:N	2.31	0.43
1:T:477:TRP:CH2	1:d:621:ILE:HG22	2.53	0.43
1:T:545:GLN:HA	1:T:546:GLY:HA2	1.77	0.43
1:T:592:THR:HG22	1:T:593:ALA:H	1.83	0.43
1:T:612:TYR:O	1:T:613:LEU:HG	2.17	0.43
1:X:439:ASP:CB	1:X:466:GLY:HA3	2.48	0.43
1:X:509:HIS:HB3	1:X:514:ASP:OD1	2.19	0.43
1:X:686:LEU:HD12	1:X:686:LEU:O	2.18	0.43
1:Y:314:LYS:HB2	1:Y:679:SER:HB3	2.00	0.43
1:Y:402:MET:HE3	1:Y:651:THR:HG21	2.00	0.43
1:Y:484:ARG:HH11	1:Y:574:GLU:C	2.26	0.43
1:Y:612:TYR:HD1	1:Y:727:GLY:HA3	1.82	0.43
1:Z:277:THR:CG2	1:Z:375:TYR:HB3	2.48	0.43
1:Z:658:SER:O	1:Z:659:THR:OG1	2.27	0.43
1:a:304:TRP:NE1	1:a:689:GLU:HA	2.32	0.43
1:a:477:TRP:CH2	1:8:621:ILE:HG22	2.53	0.43
1:a:686:LEU:O	1:a:686:LEU:HD12	2.18	0.43
1:b:352:TYR:CZ	1:b:354:LEU:HD13	2.54	0.43
1:b:397:TYR:HB3	1:b:398:PHE:CD1	2.53	0.43
1:b:560:THR:HG21	1:b:612:TYR:CZ	2.52	0.43
1:b:612:TYR:HD1	1:b:727:GLY:HA3	1.82	0.43
1:b:613:LEU:HD23	1:b:726:ILE:HB	2.00	0.43
1:c:487:ARG:HE	1:p:583:LEU:HD13	1.83	0.43
1:c:509:HIS:HB3	1:c:514:ASP:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:397:TYR:HB3	1:d:398:PHE:CD1	2.53	0.43
1:f:397:TYR:HB3	1:f:398:PHE:CD1	2.53	0.43
1:f:532:LYS:HE2	1:f:533:PHE:CZ	2.53	0.43
1:g:352:TYR:CZ	1:g:354:LEU:HD13	2.53	0.43
1:g:484:ARG:HH11	1:g:574:GLU:C	2.26	0.43
1:h:545:GLN:HA	1:h:546:GLY:HA2	1.77	0.43
1:h:612:TYR:HD1	1:h:727:GLY:HA3	1.82	0.43
1:i:287:PHE:HE1	1:i:684:TRP:HH2	1.66	0.43
1:j:287:PHE:HE1	1:j:684:TRP:HH2	1.65	0.43
1:j:452:SER:OG	1:j:456:THR:O	2.27	0.43
1:k:560:THR:HG21	1:k:612:TYR:CZ	2.52	0.43
1:m:586:GLY:O	1:n:496:ASN:HA	2.18	0.43
1:n:375:TYR:CG	1:n:376:GLY:N	2.86	0.43
1:n:439:ASP:CB	1:n:466:GLY:HA3	2.48	0.43
1:n:715:ASP:CG	1:n:716:THR:N	2.75	0.43
1:o:244:THR:O	1:o:245:ARG:NH1	2.40	0.43
1:o:387:VAL:HG12	1:o:388:GLY:N	2.32	0.43
1:o:443:TYR:CE1	1:o:464:GLN:HB2	2.52	0.43
1:p:314:LYS:HB2	1:p:679:SER:HB3	2.00	0.43
1:q:342:VAL:HG13	1:q:343:PHE:N	2.31	0.43
1:q:402:MET:HE3	1:q:651:THR:HG21	2.00	0.43
1:r:314:LYS:HB2	1:r:679:SER:HB3	2.00	0.43
1:r:449:ASN:O	1:r:450:THR:OG1	2.20	0.43
1:r:502:TRP:CD1	1:r:502:TRP:H	2.36	0.43
1:t:483:TYR:HE1	1:v:598:GLN:HE22	1.64	0.43
1:u:620:LYS:HD3	1:u:642:PRO:CD	2.49	0.43
1:v:277:THR:CG2	1:v:375:TYR:HB3	2.48	0.43
1:v:502:TRP:CD1	1:v:502:TRP:H	2.36	0.43
1:w:509:HIS:HE2	1:y:574:GLU:HB3	1.83	0.43
1:x:317:ASN:HB3	1:x:677:GLN:HG2	1.99	0.43
1:x:375:TYR:CG	1:x:376:GLY:N	2.86	0.43
1:x:477:TRP:CH2	1:y:621:ILE:HG22	2.53	0.43
1:x:555:GLU:OE1	1:x:555:GLU:N	2.46	0.43
1:z:317:ASN:HB3	1:z:677:GLN:HG2	1.99	0.43
1:2:314:LYS:HB2	1:2:679:SER:HB3	2.00	0.43
1:2:532:LYS:HE2	1:2:533:PHE:CZ	2.53	0.43
1:3:397:TYR:HB3	1:3:398:PHE:CD1	2.53	0.43
1:4:314:LYS:HB2	1:4:679:SER:HB3	2.00	0.43
1:4:342:VAL:HG13	1:4:343:PHE:N	2.31	0.43
1:4:375:TYR:CG	1:4:376:GLY:N	2.86	0.43
1:4:658:SER:O	1:4:659:THR:OG1	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:612:TYR:O	1:5:613:LEU:HG	2.17	0.43
1:7:277:THR:CG2	1:7:375:TYR:HB3	2.48	0.43
1:7:526:HIS:ND1	1:7:527:LYS:O	2.50	0.43
1:8:354:LEU:O	1:8:356:SER:N	2.47	0.43
1:A:387:VAL:HG12	1:A:388:GLY:N	2.32	0.43
1:A:443:TYR:CE1	1:A:464:GLN:HB2	2.52	0.43
1:A:598:GLN:HE22	1:G:483:TYR:HE1	1.65	0.43
1:A:620:LYS:HD3	1:A:642:PRO:CD	2.49	0.43
1:B:612:TYR:HD1	1:B:727:GLY:HA3	1.82	0.43
1:C:497:ASN:CB	1:C:498:SER:HA	2.45	0.43
1:C:621:ILE:HG22	1:M:477:TRP:CH2	2.53	0.43
1:E:277:THR:CG2	1:E:375:TYR:HB3	2.49	0.43
1:F:314:LYS:HB2	1:F:679:SER:HB3	2.00	0.43
1:F:552:VAL:CG2	1:F:556:LYS:HD2	2.49	0.43
1:G:314:LYS:HB2	1:G:679:SER:HB3	2.00	0.43
1:H:277:THR:CG2	1:H:375:TYR:HB3	2.48	0.43
1:H:314:LYS:HB2	1:H:679:SER:HB3	2.00	0.43
1:H:484:ARG:HH11	1:H:574:GLU:C	2.26	0.43
1:H:611:VAL:O	1:H:727:GLY:HA2	2.19	0.43
1:I:314:LYS:HB2	1:I:679:SER:HB3	2.00	0.43
1:I:352:TYR:CZ	1:I:354:LEU:HD13	2.53	0.43
1:I:375:TYR:CG	1:I:376:GLY:N	2.86	0.43
1:I:484:ARG:HH11	1:I:574:GLU:C	2.26	0.43
1:J:397:TYR:HB3	1:J:398:PHE:CD1	2.53	0.43
1:J:466:GLY:N	1:J:473:GLN:HE22	2.16	0.43
1:J:509:HIS:HB3	1:J:514:ASP:OD1	2.19	0.43
1:J:612:TYR:O	1:J:613:LEU:HG	2.17	0.43
1:K:592:THR:HG22	1:K:593:ALA:H	1.83	0.43
1:L:497:ASN:CB	1:L:498:SER:HA	2.45	0.43
1:M:277:THR:CG2	1:M:375:TYR:HB3	2.48	0.43
1:M:397:TYR:HB3	1:M:398:PHE:CD1	2.53	0.43
1:M:466:GLY:N	1:M:473:GLN:HE22	2.16	0.43
1:N:612:TYR:HD1	1:N:727:GLY:HA3	1.82	0.43
1:O:621:ILE:HG22	1:n:477:TRP:CH2	2.53	0.43
1:P:592:THR:HG22	1:P:593:ALA:N	2.34	0.43
1:Q:314:LYS:HB2	1:Q:679:SER:HB3	2.00	0.43
1:Q:344:THR:HB	1:Q:646:ILE:HG22	2.00	0.43
1:Q:439:ASP:CB	1:Q:466:GLY:HA3	2.48	0.43
1:Q:612:TYR:O	1:Q:613:LEU:HG	2.17	0.43
1:R:483:TYR:HE1	1:U:598:GLN:HE22	1.64	0.43
1:R:592:THR:HG22	1:R:593:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:277:THR:CG2	1:U:375:TYR:HB3	2.48	0.43
1:U:397:TYR:HB3	1:U:398:PHE:CD1	2.53	0.43
1:U:502:TRP:H	1:U:502:TRP:CD1	2.36	0.43
1:U:532:LYS:HE2	1:U:533:PHE:CZ	2.53	0.43
1:V:574:GLU:HB3	1:e:509:HIS:HE2	1.83	0.43
1:V:592:THR:HG22	1:V:593:ALA:N	2.34	0.43
1:W:402:MET:HE3	1:W:651:THR:HG21	2.00	0.43
1:W:443:TYR:CE1	1:W:464:GLN:HB2	2.52	0.43
1:W:532:LYS:HE2	1:W:533:PHE:CZ	2.53	0.43
1:X:277:THR:CG2	1:X:375:TYR:HB3	2.49	0.43
1:X:317:ASN:HB3	1:X:677:GLN:HG2	1.99	0.43
1:X:375:TYR:CG	1:X:376:GLY:N	2.86	0.43
1:X:470:ILE:C	1:X:472:ASP:N	2.76	0.43
1:X:545:GLN:HA	1:X:546:GLY:HA2	1.77	0.43
1:X:581:THR:OG1	1:X:592:THR:O	2.32	0.43
1:Y:532:LYS:HE2	1:Y:533:PHE:CZ	2.53	0.43
1:Z:477:TRP:CH2	1:4:621:ILE:HG22	2.53	0.43
1:Z:686:LEU:O	1:Z:686:LEU:HD12	2.18	0.43
1:a:344:THR:HB	1:a:646:ILE:HG22	2.00	0.43
1:a:397:TYR:HB3	1:a:398:PHE:CD1	2.53	0.43
1:b:592:THR:HG22	1:b:593:ALA:H	1.83	0.43
1:c:277:THR:CG2	1:c:375:TYR:HB3	2.48	0.43
1:c:484:ARG:HH11	1:c:574:GLU:C	2.26	0.43
1:c:502:TRP:H	1:c:502:TRP:CD1	2.36	0.43
1:d:314:LYS:HB2	1:d:679:SER:HB3	2.00	0.43
1:d:502:TRP:H	1:d:502:TRP:CD1	2.36	0.43
1:e:277:THR:CG2	1:e:375:TYR:HB3	2.48	0.43
1:e:509:HIS:HB3	1:e:514:ASP:OD1	2.19	0.43
1:e:686:LEU:O	1:e:686:LEU:HD12	2.18	0.43
1:g:509:HIS:HB3	1:g:514:ASP:OD1	2.19	0.43
1:g:532:LYS:HE2	1:g:533:PHE:CZ	2.53	0.43
1:h:560:THR:HG21	1:h:612:TYR:CZ	2.52	0.43
1:i:352:TYR:CZ	1:i:354:LEU:HD13	2.54	0.43
1:i:466:GLY:N	1:i:473:GLN:HE22	2.17	0.43
1:i:509:HIS:HB3	1:i:514:ASP:OD1	2.19	0.43
1:j:397:TYR:HB3	1:j:398:PHE:CD1	2.53	0.43
1:k:545:GLN:HA	1:k:546:GLY:HA2	1.77	0.43
1:k:611:VAL:O	1:k:727:GLY:HA2	2.19	0.43
1:k:612:TYR:HD1	1:k:727:GLY:HA3	1.82	0.43
1:l:277:THR:CG2	1:l:375:TYR:HB3	2.48	0.43
1:l:613:LEU:HD23	1:l:726:ILE:HB	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:711:ASP:HB2	1:l:723:PRO:HD2	1.99	0.43
1:m:509:HIS:HB3	1:m:514:ASP:OD1	2.19	0.43
1:n:611:VAL:O	1:n:727:GLY:HA2	2.19	0.43
1:o:344:THR:HB	1:o:646:ILE:HG22	2.00	0.43
1:o:620:LYS:HD3	1:o:642:PRO:CD	2.49	0.43
1:p:277:THR:CG2	1:p:375:TYR:HB3	2.48	0.43
1:p:466:GLY:N	1:p:473:GLN:HE22	2.17	0.43
1:q:582:ASN:OD1	1:q:591:ALA:N	2.35	0.43
1:r:344:THR:HB	1:r:646:ILE:HG22	2.00	0.43
1:r:402:MET:HE3	1:r:651:THR:HG21	2.00	0.43
1:s:277:THR:CG2	1:s:375:TYR:HB3	2.48	0.43
1:s:397:TYR:HB3	1:s:398:PHE:CD1	2.53	0.43
1:s:611:VAL:O	1:s:727:GLY:HA2	2.19	0.43
1:s:612:TYR:HD1	1:s:727:GLY:CA	2.30	0.43
1:u:715:ASP:CG	1:u:716:THR:N	2.75	0.43
1:v:592:THR:HG22	1:v:593:ALA:H	1.83	0.43
1:w:509:HIS:HB3	1:w:514:ASP:OD1	2.19	0.43
1:x:470:ILE:C	1:x:472:ASP:N	2.77	0.43
1:x:532:LYS:HE2	1:x:533:PHE:CZ	2.53	0.43
1:x:560:THR:HG21	1:x:612:TYR:CZ	2.52	0.43
1:x:686:LEU:O	1:x:686:LEU:HD12	2.18	0.43
1:y:592:THR:HG22	1:y:593:ALA:N	2.34	0.43
1:y:686:LEU:O	1:y:686:LEU:HD12	2.18	0.43
1:z:613:LEU:HD23	1:z:726:ILE:HB	2.00	0.43
1:1:592:THR:HG22	1:1:593:ALA:H	1.83	0.43
1:1:686:LEU:HD12	1:1:686:LEU:O	2.18	0.43
1:2:502:TRP:H	1:2:502:TRP:CD1	2.36	0.43
1:2:612:TYR:HD1	1:2:727:GLY:HA3	1.82	0.43
1:4:611:VAL:O	1:4:727:GLY:HA2	2.19	0.43
1:5:314:LYS:HB2	1:5:679:SER:HB3	2.00	0.43
1:5:439:ASP:CB	1:5:466:GLY:HA3	2.48	0.43
1:6:387:VAL:HG12	1:6:388:GLY:N	2.32	0.43
1:6:484:ARG:HH11	1:6:574:GLU:C	2.26	0.43
1:6:712:PHE:HA	1:6:721:SER:O	2.17	0.43
1:8:484:ARG:HH11	1:8:574:GLU:C	2.26	0.43
1:8:560:THR:HG21	1:8:612:TYR:CZ	2.52	0.43
1:A:344:THR:HB	1:A:646:ILE:HG22	2.00	0.43
1:A:502:TRP:CD1	1:A:502:TRP:H	2.36	0.43
1:B:502:TRP:H	1:B:502:TRP:CD1	2.36	0.43
1:B:532:LYS:HE2	1:B:533:PHE:CZ	2.53	0.43
1:B:611:VAL:O	1:B:727:GLY:HA2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:352:TYR:CZ	1:C:354:LEU:HD13	2.54	0.43
1:C:387:VAL:HG12	1:C:388:GLY:N	2.32	0.43
1:D:592:THR:HG22	1:D:593:ALA:H	1.83	0.43
1:E:592:THR:HG22	1:E:593:ALA:N	2.34	0.43
1:F:277:THR:CG2	1:F:375:TYR:HB3	2.48	0.43
1:G:466:GLY:N	1:G:473:GLN:HE22	2.16	0.43
1:H:354:LEU:O	1:H:356:SER:N	2.47	0.43
1:H:439:ASP:CB	1:H:466:GLY:HA3	2.48	0.43
1:H:509:HIS:HB3	1:H:514:ASP:OD1	2.19	0.43
1:H:592:THR:HG22	1:H:593:ALA:H	1.83	0.43
1:H:621:ILE:HG22	1:Y:477:TRP:CH2	2.53	0.43
1:H:692:LYS:HG2	1:W:398:PHE:CE1	2.54	0.43
1:I:277:THR:CG2	1:I:375:TYR:HB3	2.49	0.43
1:I:342:VAL:HG13	1:I:343:PHE:N	2.31	0.43
1:I:612:TYR:HD1	1:I:727:GLY:HA3	1.82	0.43
1:J:552:VAL:CG2	1:J:556:LYS:HD2	2.49	0.43
1:K:611:VAL:O	1:K:727:GLY:HA2	2.19	0.43
1:N:344:THR:HB	1:N:646:ILE:HG22	2.00	0.43
1:N:397:TYR:HB3	1:N:398:PHE:CD1	2.53	0.43
1:N:552:VAL:CG2	1:N:556:LYS:HD2	2.49	0.43
1:N:592:THR:HG22	1:N:593:ALA:H	1.83	0.43
1:O:352:TYR:CZ	1:O:354:LEU:HD13	2.54	0.43
1:O:398:PHE:CE1	1:n:692:LYS:HG2	2.53	0.43
1:O:496:ASN:HA	1:n:586:GLY:O	2.19	0.43
1:O:509:HIS:HB3	1:O:514:ASP:OD1	2.18	0.43
1:P:352:TYR:CZ	1:P:354:LEU:HD13	2.53	0.43
1:P:397:TYR:HB3	1:P:398:PHE:CD1	2.53	0.43
1:P:560:THR:HG21	1:P:612:TYR:CZ	2.52	0.43
1:R:354:LEU:O	1:R:356:SER:N	2.47	0.43
1:R:509:HIS:HB3	1:R:514:ASP:OD1	2.19	0.43
1:S:277:THR:CG2	1:S:375:TYR:HB3	2.48	0.43
1:S:484:ARG:HH11	1:S:574:GLU:C	2.26	0.43
1:T:352:TYR:CZ	1:T:354:LEU:HD13	2.54	0.43
1:T:439:ASP:CB	1:T:466:GLY:HA3	2.48	0.43
1:T:598:GLN:HE22	1:d:483:TYR:HE1	1.65	0.43
1:U:552:VAL:CG2	1:U:556:LYS:HD2	2.49	0.43
1:U:592:THR:HG22	1:U:593:ALA:H	1.83	0.43
1:V:502:TRP:CD1	1:V:502:TRP:H	2.36	0.43
1:W:397:TYR:HB3	1:W:398:PHE:CD1	2.53	0.43
1:W:477:TRP:CH2	1:Y:621:ILE:HG22	2.53	0.43
1:X:352:TYR:CZ	1:X:354:LEU:HD13	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:532:LYS:HE2	1:X:533:PHE:CZ	2.53	0.43
1:X:555:GLU:OE1	1:X:555:GLU:N	2.46	0.43
1:X:714:VAL:HG21	1:X:718:GLY:HA2	2.01	0.43
1:Y:344:THR:HB	1:Y:646:ILE:HG22	2.00	0.43
1:Z:375:TYR:CG	1:Z:376:GLY:N	2.86	0.43
1:Z:509:HIS:HB3	1:Z:514:ASP:OD1	2.19	0.43
1:Z:592:THR:HG22	1:Z:593:ALA:N	2.34	0.43
1:a:552:VAL:CG2	1:a:556:LYS:HD2	2.49	0.43
1:a:592:THR:HG22	1:a:593:ALA:H	1.83	0.43
1:a:612:TYR:HD1	1:a:727:GLY:HA3	1.82	0.43
1:b:611:VAL:O	1:b:727:GLY:HA2	2.19	0.43
1:c:314:LYS:HB2	1:c:679:SER:HB3	2.00	0.43
1:c:352:TYR:CZ	1:c:354:LEU:HD13	2.54	0.43
1:c:477:TRP:CH2	1:o:621:ILE:HG22	2.54	0.43
1:c:612:TYR:HD1	1:c:727:GLY:HA3	1.82	0.43
1:d:342:VAL:HG13	1:d:343:PHE:N	2.31	0.43
1:d:612:TYR:HD1	1:d:727:GLY:HA3	1.82	0.43
1:e:611:VAL:O	1:e:727:GLY:HA2	2.19	0.43
1:f:484:ARG:HH11	1:f:574:GLU:C	2.26	0.43
1:f:640:LYS:HE3	1:f:641:HIS:NE2	2.34	0.43
1:g:244:THR:O	1:g:245:ARG:NH1	2.40	0.43
1:g:466:GLY:N	1:g:473:GLN:HE22	2.17	0.43
1:g:592:THR:HG22	1:g:593:ALA:H	1.83	0.43
1:h:611:VAL:O	1:h:727:GLY:HA2	2.19	0.43
1:j:592:THR:HG22	1:j:593:ALA:N	2.34	0.43
1:k:581:THR:OG1	1:k:592:THR:O	2.32	0.43
1:m:277:THR:CG2	1:m:375:TYR:HB3	2.48	0.43
1:m:477:TRP:CH2	1:n:621:ILE:HG22	2.53	0.43
1:n:466:GLY:N	1:n:473:GLN:HE22	2.17	0.43
1:n:484:ARG:HH11	1:n:574:GLU:C	2.26	0.43
1:n:526:HIS:ND1	1:n:527:LYS:O	2.50	0.43
1:n:592:THR:HG22	1:n:593:ALA:H	1.83	0.43
1:o:502:TRP:CD1	1:o:502:TRP:H	2.36	0.43
1:q:397:TYR:HB3	1:q:398:PHE:CD1	2.53	0.43
1:q:532:LYS:HE2	1:q:533:PHE:CZ	2.53	0.43
1:r:387:VAL:HG12	1:r:388:GLY:N	2.32	0.43
1:s:439:ASP:CB	1:s:466:GLY:HA3	2.48	0.43
1:t:496:ASN:HA	1:v:586:GLY:O	2.19	0.43
1:t:509:HIS:HB3	1:t:514:ASP:OD1	2.19	0.43
1:t:592:THR:HG22	1:t:593:ALA:N	2.34	0.43
1:u:277:THR:CG2	1:u:375:TYR:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:611:VAL:O	1:u:727:GLY:HA2	2.19	0.43
1:v:344:THR:HB	1:v:646:ILE:HG22	2.00	0.43
1:v:552:VAL:CG2	1:v:556:LYS:HD2	2.49	0.43
1:v:613:LEU:HD23	1:v:726:ILE:HB	2.00	0.43
1:w:277:THR:CG2	1:w:375:TYR:HB3	2.49	0.43
1:w:477:TRP:CH2	1:x:621:ILE:HG22	2.53	0.43
1:x:314:LYS:HB2	1:x:679:SER:HB3	2.00	0.43
1:x:711:ASP:HB2	1:x:723:PRO:HD2	1.99	0.43
1:y:502:TRP:CD1	1:y:502:TRP:H	2.36	0.43
1:y:532:LYS:HE2	1:y:533:PHE:CZ	2.53	0.43
1:z:277:THR:CG2	1:z:375:TYR:HB3	2.48	0.43
1:z:555:GLU:OE1	1:z:555:GLU:N	2.46	0.43
1:z:560:THR:HG21	1:z:612:TYR:CZ	2.52	0.43
1:1:342:VAL:HG13	1:1:343:PHE:N	2.31	0.43
1:1:545:GLN:HA	1:1:546:GLY:HA2	1.77	0.43
1:3:314:LYS:HB2	1:3:679:SER:HB3	2.00	0.43
1:3:352:TYR:CZ	1:3:354:LEU:HD13	2.53	0.43
1:3:484:ARG:HH11	1:3:574:GLU:C	2.26	0.43
1:3:509:HIS:HB3	1:3:514:ASP:OD1	2.18	0.43
1:4:439:ASP:CB	1:4:466:GLY:HA3	2.48	0.43
1:4:466:GLY:N	1:4:473:GLN:HE22	2.17	0.43
1:4:484:ARG:HH11	1:4:574:GLU:C	2.26	0.43
1:4:620:LYS:HD3	1:4:642:PRO:CD	2.49	0.43
1:5:344:THR:HB	1:5:646:ILE:HG22	2.00	0.43
1:5:397:TYR:HB3	1:5:398:PHE:CD1	2.53	0.43
1:6:277:THR:CG2	1:6:375:TYR:HB3	2.48	0.43
1:6:470:ILE:C	1:6:472:ASP:N	2.76	0.43
1:6:552:VAL:CG2	1:6:556:LYS:HD2	2.49	0.43
1:7:397:TYR:HB3	1:7:398:PHE:CD1	2.53	0.43
1:7:592:THR:HG22	1:7:593:ALA:N	2.34	0.43
1:7:658:SER:O	1:7:659:THR:OG1	2.27	0.43
1:8:592:THR:HG22	1:8:593:ALA:N	2.34	0.43
1:8:611:VAL:O	1:8:727:GLY:HA2	2.19	0.43
1:A:640:LYS:HE3	1:A:641:HIS:NE2	2.34	0.43
1:B:344:THR:HB	1:B:646:ILE:HG22	2.00	0.43
1:B:509:HIS:HB3	1:B:514:ASP:OD1	2.19	0.43
1:B:592:THR:HG22	1:B:593:ALA:H	1.83	0.43
1:B:714:VAL:HG21	1:B:718:GLY:HA2	2.01	0.43
1:C:378:LEU:HA	1:C:378:LEU:HD23	1.75	0.43
1:C:532:LYS:HE2	1:C:533:PHE:CZ	2.53	0.43
1:F:470:ILE:C	1:F:472:ASP:N	2.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:484:ARG:HH11	1:F:574:GLU:C	2.26	0.43
1:F:592:THR:HG22	1:F:593:ALA:H	1.83	0.43
1:F:640:LYS:HE3	1:F:641:HIS:NE2	2.34	0.43
1:G:402:MET:HE3	1:G:651:THR:HG21	2.00	0.43
1:G:552:VAL:CG2	1:G:556:LYS:HD2	2.49	0.43
1:G:612:TYR:O	1:G:613:LEU:HG	2.17	0.43
1:G:712:PHE:HA	1:G:721:SER:O	2.17	0.43
1:H:398:PHE:CE1	1:Y:692:LYS:HG2	2.54	0.43
1:H:502:TRP:CD1	1:H:502:TRP:H	2.36	0.43
1:I:611:VAL:O	1:I:727:GLY:HA2	2.19	0.43
1:J:277:THR:CG2	1:J:375:TYR:HB3	2.49	0.43
1:J:497:ASN:CB	1:J:498:SER:HA	2.45	0.43
1:J:560:THR:HG21	1:J:612:TYR:CZ	2.52	0.43
1:J:611:VAL:O	1:J:727:GLY:HA2	2.19	0.43
1:J:686:LEU:O	1:J:686:LEU:HD12	2.18	0.43
1:L:352:TYR:CZ	1:L:354:LEU:HD13	2.54	0.43
1:M:552:VAL:CG2	1:M:556:LYS:HD2	2.49	0.43
1:M:686:LEU:HD12	1:M:686:LEU:O	2.18	0.43
1:N:686:LEU:O	1:N:686:LEU:HD12	2.18	0.43
1:O:314:LYS:HB2	1:O:679:SER:HB3	2.00	0.43
1:O:484:ARG:HH11	1:O:574:GLU:C	2.26	0.43
1:P:484:ARG:HH11	1:P:574:GLU:C	2.26	0.43
1:P:686:LEU:HD12	1:P:686:LEU:O	2.18	0.43
1:Q:397:TYR:HB3	1:Q:398:PHE:CD1	2.53	0.43
1:Q:592:THR:HG22	1:Q:593:ALA:N	2.34	0.43
1:R:611:VAL:O	1:R:727:GLY:HA2	2.19	0.43
1:R:620:LYS:HD3	1:R:642:PRO:CD	2.49	0.43
1:S:611:VAL:O	1:S:727:GLY:HA2	2.19	0.43
1:S:686:LEU:HD12	1:S:686:LEU:O	2.18	0.43
1:T:466:GLY:N	1:T:473:GLN:HE22	2.16	0.43
1:T:484:ARG:HH11	1:T:574:GLU:C	2.26	0.43
1:T:611:VAL:O	1:T:727:GLY:HA2	2.19	0.43
1:T:621:ILE:HG22	1:l:477:TRP:CH2	2.53	0.43
1:U:592:THR:HG22	1:U:593:ALA:N	2.34	0.43
1:U:613:LEU:HD23	1:U:726:ILE:HB	2.00	0.43
1:V:532:LYS:HE2	1:V:533:PHE:CZ	2.53	0.43
1:V:545:GLN:HA	1:V:546:GLY:HA2	1.77	0.43
1:V:547:SER:OG	1:X:443:TYR:OH	2.29	0.43
1:V:611:VAL:O	1:V:727:GLY:HA2	2.19	0.43
1:V:621:ILE:HG22	1:X:477:TRP:CH2	2.53	0.43
1:V:686:LEU:O	1:V:686:LEU:HD12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:466:GLY:N	1:W:473:GLN:HE22	2.16	0.43
1:W:613:LEU:HD23	1:W:726:ILE:HB	2.00	0.43
1:X:611:VAL:O	1:X:727:GLY:HA2	2.19	0.43
1:X:711:ASP:HB2	1:X:723:PRO:HD2	1.99	0.43
1:Y:509:HIS:HB3	1:Y:514:ASP:OD1	2.18	0.43
1:Y:620:LYS:HD3	1:Y:642:PRO:CD	2.49	0.43
1:Z:397:TYR:HB3	1:Z:398:PHE:CD1	2.53	0.43
1:Z:402:MET:HE3	1:Z:651:THR:HG21	2.00	0.43
1:b:509:HIS:HB3	1:b:514:ASP:OD1	2.19	0.43
1:b:532:LYS:HE2	1:b:533:PHE:CZ	2.53	0.43
1:b:714:VAL:HG21	1:b:718:GLY:HA2	2.01	0.43
1:c:375:TYR:CG	1:c:376:GLY:N	2.86	0.43
1:c:611:VAL:O	1:c:727:GLY:HA2	2.19	0.43
1:d:352:TYR:CZ	1:d:354:LEU:HD13	2.54	0.43
1:d:470:ILE:C	1:d:472:ASP:N	2.76	0.43
1:f:287:PHE:HE1	1:f:684:TRP:HH2	1.66	0.43
1:f:586:GLY:O	1:h:496:ASN:HA	2.19	0.43
1:g:552:VAL:CG2	1:g:556:LYS:HD2	2.49	0.43
1:h:314:LYS:HE3	1:h:314:LYS:HB3	1.85	0.43
1:i:532:LYS:HE2	1:i:533:PHE:CZ	2.53	0.43
1:i:552:VAL:CG2	1:i:556:LYS:HD2	2.49	0.43
1:j:386:ALA:O	1:l:706:LYS:HD2	2.17	0.43
1:j:484:ARG:HH11	1:j:574:GLU:C	2.26	0.43
1:j:586:GLY:O	1:k:496:ASN:HA	2.19	0.43
1:j:640:LYS:HE3	1:j:641:HIS:NE2	2.34	0.43
1:l:352:TYR:CZ	1:l:354:LEU:HD13	2.54	0.43
1:l:509:HIS:HB3	1:l:514:ASP:OD1	2.19	0.43
1:l:560:THR:HG21	1:l:612:TYR:CZ	2.52	0.43
1:m:375:TYR:CG	1:m:376:GLY:N	2.86	0.43
1:m:592:THR:HG22	1:m:593:ALA:N	2.34	0.43
1:m:686:LEU:O	1:m:686:LEU:HD12	2.18	0.43
1:n:620:LYS:HD3	1:n:642:PRO:CD	2.49	0.43
1:o:287:PHE:HE1	1:o:684:TRP:HH2	1.66	0.43
1:p:402:MET:HE3	1:p:651:THR:HG21	2.00	0.43
1:p:712:PHE:HA	1:p:721:SER:O	2.17	0.43
1:q:314:LYS:HB2	1:q:679:SER:HB3	2.00	0.43
1:q:466:GLY:N	1:q:473:GLN:HE22	2.17	0.43
1:q:552:VAL:CG2	1:q:556:LYS:HD2	2.49	0.43
1:q:611:VAL:O	1:q:727:GLY:HA2	2.19	0.43
1:q:613:LEU:HD23	1:q:726:ILE:HB	1.99	0.43
1:r:509:HIS:HB3	1:r:514:ASP:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:692:LYS:HG2	1:s:398:PHE:CE1	2.54	0.43
1:s:509:HIS:HB3	1:s:514:ASP:OD1	2.19	0.43
1:s:581:THR:OG1	1:s:592:THR:O	2.32	0.43
1:t:611:VAL:O	1:t:727:GLY:HA2	2.19	0.43
1:t:621:ILE:HG22	1:v:477:TRP:CH2	2.53	0.43
1:t:686:LEU:O	1:t:686:LEU:HD12	2.18	0.43
1:u:555:GLU:OE1	1:u:555:GLU:N	2.46	0.43
1:u:686:LEU:O	1:u:686:LEU:HD12	2.18	0.43
1:v:352:TYR:CZ	1:v:354:LEU:HD13	2.54	0.43
1:v:397:TYR:HB3	1:v:398:PHE:CD1	2.53	0.43
1:v:592:THR:HG22	1:v:593:ALA:N	2.34	0.43
1:w:466:GLY:N	1:w:473:GLN:HE22	2.17	0.43
1:w:611:VAL:O	1:w:727:GLY:HA2	2.19	0.43
1:x:352:TYR:CZ	1:x:354:LEU:HD13	2.54	0.43
1:x:484:ARG:HH11	1:x:574:GLU:C	2.26	0.43
1:x:611:VAL:O	1:x:727:GLY:HA2	2.19	0.43
1:x:714:VAL:HG21	1:x:718:GLY:HA2	2.01	0.43
1:y:402:MET:HE3	1:y:651:THR:HG21	2.00	0.43
1:y:611:VAL:O	1:y:727:GLY:HA2	2.19	0.43
1:y:613:LEU:HD23	1:y:726:ILE:HB	1.99	0.43
1:z:509:HIS:HB3	1:z:514:ASP:OD1	2.19	0.43
1:z:711:ASP:HB2	1:z:723:PRO:HD2	1.99	0.43
1:1:352:TYR:CZ	1:1:354:LEU:HD13	2.54	0.43
1:1:439:ASP:CB	1:1:466:GLY:HA3	2.48	0.43
1:2:470:ILE:C	1:2:472:ASP:N	2.76	0.43
1:3:592:THR:HG22	1:3:593:ALA:H	1.83	0.43
1:4:592:THR:HG22	1:4:593:ALA:H	1.83	0.43
1:5:586:GLY:O	1:6:496:ASN:HA	2.19	0.43
1:6:592:THR:HG22	1:6:593:ALA:H	1.83	0.43
1:6:640:LYS:HE3	1:6:641:HIS:NE2	2.34	0.43
1:7:509:HIS:HB3	1:7:514:ASP:OD1	2.19	0.43
1:8:397:TYR:HB3	1:8:398:PHE:CD1	2.53	0.43
1:8:439:ASP:CB	1:8:466:GLY:HA3	2.48	0.43
1:8:466:GLY:N	1:8:473:GLN:HE22	2.17	0.43
1:8:686:LEU:HD12	1:8:686:LEU:O	2.18	0.43
1:A:613:LEU:HD23	1:A:726:ILE:HB	1.99	0.43
1:B:402:MET:HE3	1:B:651:THR:HG21	2.00	0.43
1:D:477:TRP:CH2	1:N:621:ILE:HG22	2.53	0.43
1:D:552:VAL:CG2	1:D:556:LYS:HD2	2.49	0.43
1:D:611:VAL:O	1:D:727:GLY:HA2	2.19	0.43
1:D:640:LYS:HE3	1:D:641:HIS:NE2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:314:LYS:HB2	1:E:679:SER:HB3	2.00	0.43
1:E:397:TYR:HB3	1:E:398:PHE:CD1	2.53	0.43
1:E:509:HIS:HB3	1:E:514:ASP:OD1	2.19	0.43
1:F:496:ASN:HA	1:Q:586:GLY:O	2.19	0.43
1:F:497:ASN:CB	1:F:498:SER:HA	2.45	0.43
1:G:352:TYR:CZ	1:G:354:LEU:HD13	2.53	0.43
1:H:352:TYR:CZ	1:H:354:LEU:HD13	2.54	0.43
1:I:552:VAL:CG2	1:I:556:LYS:HD2	2.49	0.43
1:I:686:LEU:HD12	1:I:686:LEU:O	2.18	0.43
1:I:714:VAL:HG21	1:I:718:GLY:HA2	2.01	0.43
1:J:526:HIS:ND1	1:J:527:LYS:O	2.50	0.43
1:K:277:THR:CG2	1:K:375:TYR:HB3	2.48	0.43
1:K:640:LYS:HE3	1:K:641:HIS:NE2	2.34	0.43
1:M:526:HIS:ND1	1:M:527:LYS:O	2.50	0.43
1:M:560:THR:HG21	1:M:612:TYR:CZ	2.52	0.43
1:M:611:VAL:O	1:M:727:GLY:HA2	2.19	0.43
1:M:621:ILE:HG22	1:b:477:TRP:CH2	2.54	0.43
1:N:592:THR:HG22	1:N:593:ALA:N	2.34	0.43
1:O:466:GLY:N	1:O:473:GLN:HE22	2.17	0.43
1:O:497:ASN:CB	1:O:498:SER:HA	2.45	0.43
1:O:592:THR:HG22	1:O:593:ALA:H	1.83	0.43
1:O:592:THR:HG22	1:O:593:ALA:N	2.34	0.43
1:P:402:MET:HE3	1:P:651:THR:HG21	2.00	0.43
1:P:439:ASP:CB	1:P:466:GLY:HA3	2.48	0.43
1:P:466:GLY:N	1:P:473:GLN:HE22	2.17	0.43
1:R:686:LEU:O	1:R:686:LEU:HD12	2.18	0.43
1:S:477:TRP:CH2	1:U:621:ILE:HG22	2.54	0.43
1:T:592:THR:HG22	1:T:593:ALA:N	2.34	0.43
1:U:352:TYR:CZ	1:U:354:LEU:HD13	2.54	0.43
1:U:484:ARG:HH11	1:U:574:GLU:C	2.26	0.43
1:V:314:LYS:HB2	1:V:679:SER:HB3	2.00	0.43
1:V:354:LEU:O	1:V:356:SER:N	2.47	0.43
1:V:613:LEU:HD23	1:V:726:ILE:HB	2.00	0.43
1:W:314:LYS:HB2	1:W:679:SER:HB3	2.00	0.43
1:W:421:HIS:HB2	1:W:637:PHE:CE1	2.54	0.43
1:W:484:ARG:HH11	1:W:574:GLU:C	2.26	0.43
1:W:552:VAL:CG2	1:W:556:LYS:HD2	2.49	0.43
1:W:611:VAL:O	1:W:727:GLY:HA2	2.19	0.43
1:W:692:LYS:HG2	1:Y:398:PHE:CE1	2.54	0.43
1:X:314:LYS:HB2	1:X:679:SER:HB3	2.00	0.43
1:X:466:GLY:N	1:X:473:GLN:HE22	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:484:ARG:HH11	1:X:574:GLU:C	2.26	0.43
1:X:560:THR:HG21	1:X:612:TYR:CZ	2.52	0.43
1:X:621:ILE:HG22	1:e:477:TRP:CH2	2.53	0.43
1:X:640:LYS:HE3	1:X:641:HIS:NE2	2.34	0.43
1:Y:552:VAL:CG2	1:Y:556:LYS:HD2	2.49	0.43
1:a:429:SER:OG	1:a:431:ASP:OD1	2.18	0.43
1:a:592:THR:HG22	1:a:593:ALA:N	2.34	0.43
1:b:344:THR:HB	1:b:646:ILE:HG22	2.00	0.43
1:b:484:ARG:HH11	1:b:574:GLU:C	2.26	0.43
1:b:502:TRP:CD1	1:b:502:TRP:H	2.36	0.43
1:b:640:LYS:HE3	1:b:641:HIS:NE2	2.34	0.43
1:c:342:VAL:HG13	1:c:343:PHE:N	2.31	0.43
1:c:391:SER:HA	1:p:693:ARG:NH1	2.33	0.43
1:c:545:GLN:HA	1:c:546:GLY:HA2	1.77	0.43
1:c:552:VAL:CG2	1:c:556:LYS:HD2	2.49	0.43
1:c:686:LEU:HD12	1:c:686:LEU:O	2.18	0.43
1:c:714:VAL:HG21	1:c:718:GLY:HA2	2.01	0.43
1:d:509:HIS:HB3	1:d:514:ASP:OD1	2.19	0.43
1:e:466:GLY:N	1:e:473:GLN:HE22	2.17	0.43
1:f:621:ILE:HG22	1:g:477:TRP:CH2	2.54	0.43
1:f:692:LYS:HG2	1:h:398:PHE:CE1	2.54	0.43
1:g:439:ASP:CB	1:g:466:GLY:HA3	2.48	0.43
1:h:466:GLY:N	1:h:473:GLN:HE22	2.16	0.43
1:i:439:ASP:CB	1:i:466:GLY:HA3	2.48	0.43
1:i:502:TRP:CD1	1:i:502:TRP:H	2.36	0.43
1:i:592:THR:HG22	1:i:593:ALA:H	1.83	0.43
1:i:621:ILE:HG22	1:k:477:TRP:CH2	2.54	0.43
1:j:477:TRP:CH2	1:k:621:ILE:HG22	2.53	0.43
1:j:692:LYS:HG2	1:k:398:PHE:CE1	2.54	0.43
1:n:342:VAL:HG13	1:n:343:PHE:N	2.31	0.43
1:n:352:TYR:CZ	1:n:354:LEU:HD13	2.54	0.43
1:n:560:THR:HG21	1:n:612:TYR:CZ	2.52	0.43
1:n:711:ASP:HB2	1:n:723:PRO:HD2	1.99	0.43
1:o:613:LEU:HD23	1:o:726:ILE:HB	1.99	0.43
1:o:640:LYS:HE3	1:o:641:HIS:NE2	2.34	0.43
1:p:352:TYR:CZ	1:p:354:LEU:HD13	2.54	0.43
1:p:552:VAL:CG2	1:p:556:LYS:HD2	2.49	0.43
1:p:612:TYR:O	1:p:613:LEU:HG	2.17	0.43
1:q:477:TRP:CH2	1:r:621:ILE:HG22	2.53	0.43
1:q:686:LEU:O	1:q:686:LEU:HD12	2.18	0.43
1:r:532:LYS:HE2	1:r:533:PHE:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:552:VAL:CG2	1:r:556:LYS:HD2	2.49	0.43
1:r:620:LYS:HD3	1:r:642:PRO:CD	2.49	0.43
1:s:352:TYR:CZ	1:s:354:LEU:HD13	2.54	0.43
1:s:552:VAL:CG2	1:s:556:LYS:HD2	2.49	0.43
1:t:277:THR:CG2	1:t:375:TYR:HB3	2.48	0.43
1:t:397:TYR:HB3	1:t:398:PHE:CD1	2.53	0.43
1:t:398:PHE:CE1	1:v:692:LYS:HG2	2.54	0.43
1:t:620:LYS:HD3	1:t:642:PRO:CD	2.49	0.43
1:u:484:ARG:HH11	1:u:574:GLU:C	2.26	0.43
1:v:484:ARG:HH11	1:v:574:GLU:C	2.26	0.43
1:x:640:LYS:HE3	1:x:641:HIS:NE2	2.34	0.43
1:y:314:LYS:HB2	1:y:679:SER:HB3	2.00	0.43
1:z:352:TYR:CZ	1:z:354:LEU:HD13	2.53	0.43
1:z:386:ALA:O	1:4:706:LYS:HD2	2.18	0.43
1:z:640:LYS:HE3	1:z:641:HIS:NE2	2.34	0.43
1:1:397:TYR:HB3	1:1:398:PHE:CD1	2.53	0.43
1:1:466:GLY:N	1:1:473:GLN:HE22	2.17	0.43
1:2:344:THR:HB	1:2:646:ILE:HG22	2.00	0.43
1:2:352:TYR:CZ	1:2:354:LEU:HD13	2.54	0.43
1:2:433:LEU:HD13	1:2:433:LEU:O	2.19	0.43
1:2:611:VAL:O	1:2:727:GLY:HA2	2.19	0.43
1:3:287:PHE:HE1	1:3:684:TRP:HH2	1.66	0.43
1:3:375:TYR:CG	1:3:376:GLY:N	2.86	0.43
1:3:378:LEU:HD23	1:3:378:LEU:HA	1.75	0.43
1:3:402:MET:HE3	1:3:651:THR:HG21	2.00	0.43
1:3:439:ASP:CB	1:3:466:GLY:HA3	2.48	0.43
1:3:466:GLY:N	1:3:473:GLN:HE22	2.17	0.43
1:3:612:TYR:HD1	1:3:727:GLY:HA3	1.82	0.43
1:3:640:LYS:HE3	1:3:641:HIS:NE2	2.34	0.43
1:4:352:TYR:CZ	1:4:354:LEU:HD13	2.54	0.43
1:4:560:THR:HG21	1:4:612:TYR:CZ	2.52	0.43
1:4:715:ASP:CG	1:4:716:THR:N	2.75	0.43
1:5:592:THR:HG22	1:5:593:ALA:N	2.34	0.43
1:8:402:MET:HE3	1:8:651:THR:HG21	2.00	0.43
1:A:244:THR:O	1:A:245:ARG:NH1	2.40	0.43
1:A:509:HIS:HB3	1:A:514:ASP:OD1	2.19	0.43
1:B:477:TRP:CH2	1:J:621:ILE:HG22	2.54	0.43
1:B:692:LYS:HG2	1:J:398:PHE:CE1	2.54	0.43
1:C:466:GLY:N	1:C:473:GLN:HE22	2.17	0.43
1:C:484:ARG:HH11	1:C:574:GLU:C	2.26	0.43
1:D:277:THR:CG2	1:D:375:TYR:HB3	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:621:ILE:HG22	1:Q:477:TRP:CH2	2.53	0.43
1:H:477:TRP:CH2	1:W:621:ILE:HG22	2.54	0.43
1:K:398:PHE:CE1	1:8:692:LYS:HG2	2.54	0.43
1:K:477:TRP:CH2	1:a:621:ILE:HG22	2.53	0.43
1:K:532:LYS:HE2	1:K:533:PHE:CZ	2.53	0.43
1:K:552:VAL:CG2	1:K:556:LYS:HD2	2.49	0.43
1:L:466:GLY:N	1:L:473:GLN:HE22	2.16	0.43
1:L:532:LYS:HE2	1:L:533:PHE:CZ	2.53	0.43
1:L:611:VAL:O	1:L:727:GLY:HA2	2.19	0.43
1:N:711:ASP:HB2	1:N:723:PRO:HD2	1.99	0.43
1:O:287:PHE:HE1	1:O:684:TRP:HH2	1.65	0.43
1:O:439:ASP:CB	1:O:466:GLY:HA3	2.48	0.43
1:O:612:TYR:HD1	1:O:727:GLY:HA3	1.82	0.43
1:O:692:LYS:HG2	1:m:398:PHE:CE1	2.54	0.43
1:P:706:LYS:HD2	1:Q:386:ALA:O	2.17	0.43
1:Q:502:TRP:CD1	1:Q:502:TRP:H	2.36	0.43
1:Q:509:HIS:HB3	1:Q:514:ASP:OD1	2.18	0.43
1:R:352:TYR:CZ	1:R:354:LEU:HD13	2.53	0.43
1:R:397:TYR:HB3	1:R:398:PHE:CD1	2.53	0.43
1:R:496:ASN:HA	1:U:586:GLY:O	2.19	0.43
1:R:502:TRP:CD1	1:R:502:TRP:H	2.36	0.43
1:R:592:THR:HG22	1:R:593:ALA:H	1.83	0.43
1:R:621:ILE:HG22	1:U:477:TRP:CH2	2.53	0.43
1:S:352:TYR:CZ	1:S:354:LEU:HD13	2.54	0.43
1:S:552:VAL:CG2	1:S:556:LYS:HD2	2.49	0.43
1:T:277:THR:CG2	1:T:375:TYR:HB3	2.48	0.43
1:T:433:LEU:HD13	1:T:433:LEU:O	2.19	0.43
1:V:402:MET:HE3	1:V:651:THR:HG21	2.00	0.43
1:V:433:LEU:HD13	1:V:433:LEU:O	2.19	0.43
1:V:477:TRP:CH2	1:e:621:ILE:HG22	2.53	0.43
1:W:502:TRP:CD1	1:W:502:TRP:H	2.36	0.43
1:W:592:THR:HG22	1:W:593:ALA:H	1.83	0.43
1:W:686:LEU:HD12	1:W:686:LEU:O	2.18	0.43
1:X:342:VAL:HG13	1:X:343:PHE:N	2.31	0.43
1:Y:387:VAL:HG12	1:Y:388:GLY:N	2.32	0.43
1:Y:714:VAL:HG21	1:Y:718:GLY:HA2	2.01	0.43
1:Z:398:PHE:CE1	1:3:692:LYS:HG2	2.54	0.43
1:a:277:THR:CG2	1:a:375:TYR:HB3	2.48	0.43
1:a:692:LYS:HG2	1:8:398:PHE:CE1	2.54	0.43
1:a:711:ASP:HB2	1:a:723:PRO:HD2	1.99	0.43
1:b:402:MET:HE3	1:b:651:THR:HG21	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:555:GLU:OE1	1:b:555:GLU:N	2.46	0.43
1:d:344:THR:HB	1:d:646:ILE:HG22	2.00	0.43
1:d:552:VAL:CG2	1:d:556:LYS:HD2	2.49	0.43
1:d:611:VAL:O	1:d:727:GLY:HA2	2.19	0.43
1:f:470:ILE:C	1:f:472:ASP:N	2.76	0.43
1:f:509:HIS:HB3	1:f:514:ASP:OD1	2.18	0.43
1:f:612:TYR:HD1	1:f:727:GLY:HA3	1.82	0.43
1:g:496:ASN:HA	1:h:586:GLY:O	2.19	0.43
1:g:502:TRP:H	1:g:502:TRP:CD1	2.36	0.43
1:h:581:THR:OG1	1:h:592:THR:O	2.32	0.43
1:i:397:TYR:HB3	1:i:398:PHE:CD1	2.53	0.43
1:i:433:LEU:HD13	1:i:433:LEU:O	2.19	0.43
1:i:496:ASN:HA	1:k:586:GLY:O	2.19	0.43
1:i:586:GLY:O	1:j:496:ASN:HA	2.19	0.43
1:j:470:ILE:C	1:j:472:ASP:N	2.76	0.43
1:j:714:VAL:HG21	1:j:718:GLY:HA2	2.01	0.43
1:k:466:GLY:N	1:k:473:GLN:HE22	2.16	0.43
1:l:402:MET:HE3	1:l:651:THR:HG21	2.00	0.43
1:l:555:GLU:OE1	1:l:555:GLU:N	2.46	0.43
1:l:620:LYS:HD3	1:l:642:PRO:CD	2.49	0.43
1:l:640:LYS:HE3	1:l:641:HIS:NE2	2.34	0.43
1:m:397:TYR:HB3	1:m:398:PHE:CD1	2.53	0.43
1:m:714:VAL:HG21	1:m:718:GLY:HA2	2.01	0.43
1:o:397:TYR:HB3	1:o:398:PHE:CD1	2.53	0.43
1:o:509:HIS:HB3	1:o:514:ASP:OD1	2.19	0.43
1:q:484:ARG:HH11	1:q:574:GLU:C	2.26	0.43
1:q:497:ASN:CB	1:q:498:SER:HA	2.45	0.43
1:q:502:TRP:CD1	1:q:502:TRP:H	2.36	0.43
1:q:592:THR:HG22	1:q:593:ALA:H	1.83	0.43
1:r:433:LEU:HD13	1:r:433:LEU:O	2.19	0.43
1:r:714:VAL:HG21	1:r:718:GLY:HA2	2.01	0.43
1:s:502:TRP:CD1	1:s:502:TRP:H	2.36	0.43
1:t:484:ARG:HH11	1:t:574:GLU:C	2.26	0.43
1:u:477:TRP:CH2	1:v:621:ILE:HG22	2.54	0.43
1:x:466:GLY:N	1:x:473:GLN:HE22	2.17	0.43
1:y:433:LEU:HD13	1:y:433:LEU:O	2.19	0.43
1:y:581:THR:N	1:y:591:ALA:O	2.37	0.43
1:z:402:MET:HE3	1:z:651:THR:HG21	2.00	0.43
1:z:620:LYS:HD3	1:z:642:PRO:CD	2.49	0.43
1:1:433:LEU:HD13	1:1:433:LEU:O	2.19	0.43
1:1:592:THR:HG22	1:1:593:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:611:VAL:O	1:1:727:GLY:HA2	2.19	0.43
1:2:484:ARG:HH11	1:2:574:GLU:C	2.26	0.43
1:2:509:HIS:HB3	1:2:514:ASP:OD1	2.19	0.43
1:3:621:ILE:HG22	1:4:477:TRP:CH2	2.54	0.43
1:4:686:LEU:HD12	1:4:686:LEU:O	2.18	0.43
1:5:386:ALA:O	1:8:706:LYS:HD2	2.17	0.43
1:5:502:TRP:CD1	1:5:502:TRP:H	2.36	0.43
1:5:509:HIS:HB3	1:5:514:ASP:OD1	2.19	0.43
1:5:552:VAL:CG2	1:5:556:LYS:HD2	2.49	0.43
1:6:509:HIS:HB3	1:6:514:ASP:OD1	2.19	0.43
1:7:368:ASP:CG	1:7:369:VAL:H	2.27	0.43
1:8:352:TYR:CZ	1:8:354:LEU:HD13	2.54	0.43
1:A:397:TYR:HB3	1:A:398:PHE:CD1	2.53	0.43
1:A:462:PHE:CD2	1:G:557:VAL:HG11	2.53	0.43
1:A:611:VAL:O	1:A:727:GLY:HA2	2.19	0.43
1:B:484:ARG:HH11	1:B:574:GLU:C	2.26	0.43
1:B:555:GLU:OE1	1:B:555:GLU:N	2.46	0.43
1:B:640:LYS:HE3	1:B:641:HIS:NE2	2.34	0.43
1:C:433:LEU:HD13	1:C:433:LEU:O	2.19	0.43
1:C:611:VAL:O	1:C:727:GLY:HA2	2.19	0.43
1:D:398:PHE:CE1	1:P:692:LYS:HG2	2.54	0.43
1:D:532:LYS:HE2	1:D:533:PHE:CZ	2.53	0.43
1:F:509:HIS:HB3	1:F:514:ASP:OD1	2.18	0.43
1:H:552:VAL:CG2	1:H:556:LYS:HD2	2.49	0.43
1:J:421:HIS:HB2	1:J:637:PHE:CE1	2.54	0.43
1:J:502:TRP:CD1	1:J:502:TRP:H	2.36	0.43
1:J:640:LYS:HE3	1:J:641:HIS:NE2	2.34	0.43
1:L:344:THR:HB	1:L:646:ILE:HG22	2.00	0.43
1:M:398:PHE:CE1	1:b:692:LYS:HG2	2.54	0.43
1:M:421:HIS:HB2	1:M:637:PHE:CE1	2.54	0.43
1:M:502:TRP:H	1:M:502:TRP:CD1	2.36	0.43
1:M:640:LYS:HE3	1:M:641:HIS:NE2	2.34	0.43
1:N:277:THR:CG2	1:N:375:TYR:HB3	2.48	0.43
1:N:402:MET:HE3	1:N:651:THR:HG21	2.00	0.43
1:N:692:LYS:HG2	1:P:398:PHE:CE1	2.54	0.43
1:O:375:TYR:CG	1:O:376:GLY:N	2.86	0.43
1:O:402:MET:HE3	1:O:651:THR:HG21	2.00	0.43
1:O:640:LYS:HE3	1:O:641:HIS:NE2	2.34	0.43
1:P:502:TRP:H	1:P:502:TRP:CD1	2.36	0.43
1:P:509:HIS:HB3	1:P:514:ASP:OD1	2.19	0.43
1:Q:552:VAL:CG2	1:Q:556:LYS:HD2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:277:THR:CG2	1:R:375:TYR:HB3	2.48	0.43
1:R:398:PHE:CE1	1:U:692:LYS:HG2	2.54	0.43
1:S:421:HIS:HB2	1:S:637:PHE:CE1	2.54	0.43
1:S:640:LYS:HE3	1:S:641:HIS:NE2	2.34	0.43
1:T:397:TYR:HB3	1:T:398:PHE:CD1	2.53	0.43
1:U:509:HIS:HB3	1:U:514:ASP:OD1	2.18	0.43
1:U:640:LYS:HE3	1:U:641:HIS:NE2	2.34	0.43
1:V:368:ASP:CG	1:V:369:VAL:H	2.27	0.43
1:V:640:LYS:HE3	1:V:641:HIS:NE2	2.34	0.43
1:W:344:THR:HB	1:W:646:ILE:HG22	2.00	0.43
1:X:552:VAL:CG2	1:X:556:LYS:HD2	2.49	0.43
1:Y:352:TYR:CZ	1:Y:354:LEU:HD13	2.53	0.43
1:Y:433:LEU:HD13	1:Y:433:LEU:O	2.19	0.43
1:Z:342:VAL:HG13	1:Z:343:PHE:N	2.31	0.43
1:Z:344:THR:HB	1:Z:646:ILE:HG22	2.00	0.43
1:Z:352:TYR:CZ	1:Z:354:LEU:HD13	2.53	0.43
1:Z:714:VAL:HG21	1:Z:718:GLY:HA2	2.01	0.43
1:b:443:TYR:CE1	1:b:464:GLN:HB2	2.52	0.43
1:c:592:THR:HG22	1:c:593:ALA:H	1.83	0.43
1:c:640:LYS:HE3	1:c:641:HIS:NE2	2.34	0.43
1:d:433:LEU:O	1:d:433:LEU:HD13	2.19	0.43
1:d:449:ASN:O	1:d:450:THR:OG1	2.20	0.43
1:d:484:ARG:HH11	1:d:574:GLU:C	2.26	0.43
1:e:287:PHE:HE1	1:e:684:TRP:HH2	1.66	0.43
1:e:714:VAL:HG21	1:e:718:GLY:HA2	2.01	0.43
1:f:477:TRP:CH2	1:h:621:ILE:HG22	2.53	0.43
1:f:620:LYS:HD3	1:f:642:PRO:CD	2.49	0.43
1:f:714:VAL:HG21	1:f:718:GLY:HA2	2.01	0.43
1:g:397:TYR:HB3	1:g:398:PHE:CD1	2.53	0.43
1:g:433:LEU:HD13	1:g:433:LEU:O	2.19	0.43
1:h:421:HIS:HB2	1:h:637:PHE:CE1	2.54	0.43
1:h:497:ASN:CB	1:h:498:SER:HA	2.45	0.43
1:j:277:THR:CG2	1:j:375:TYR:HB3	2.48	0.43
1:j:612:TYR:HD1	1:j:727:GLY:HA3	1.82	0.43
1:k:552:VAL:CG2	1:k:556:LYS:HD2	2.49	0.43
1:k:592:THR:HG22	1:k:593:ALA:H	1.83	0.43
1:l:714:VAL:HG21	1:l:718:GLY:HA2	2.01	0.43
1:m:342:VAL:HG13	1:m:343:PHE:N	2.31	0.43
1:m:344:THR:HB	1:m:646:ILE:HG22	2.00	0.43
1:m:352:TYR:CZ	1:m:354:LEU:HD13	2.54	0.43
1:m:692:LYS:HG2	1:n:398:PHE:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:640:LYS:HE3	1:n:641:HIS:NE2	2.34	0.43
1:n:686:LEU:HD12	1:n:686:LEU:O	2.18	0.43
1:n:714:VAL:HG21	1:n:718:GLY:HA2	2.01	0.43
1:o:611:VAL:O	1:o:727:GLY:HA2	2.19	0.43
1:q:547:SER:HG	1:s:443:TYR:HH	1.61	0.43
1:q:692:LYS:HG2	1:r:398:PHE:CE1	2.54	0.43
1:s:433:LEU:HD13	1:s:433:LEU:O	2.19	0.43
1:s:592:THR:HG22	1:s:593:ALA:H	1.83	0.43
1:t:352:TYR:CZ	1:t:354:LEU:HD13	2.53	0.43
1:t:402:MET:HE3	1:t:651:THR:HG21	2.00	0.43
1:t:502:TRP:H	1:t:502:TRP:CD1	2.36	0.43
1:u:509:HIS:HB3	1:u:514:ASP:OD1	2.19	0.43
1:u:552:VAL:CG2	1:u:556:LYS:HD2	2.49	0.43
1:v:640:LYS:HE3	1:v:641:HIS:NE2	2.34	0.43
1:w:287:PHE:HE1	1:w:684:TRP:HH2	1.66	0.43
1:w:397:TYR:HB3	1:w:398:PHE:CD1	2.53	0.43
1:w:532:LYS:HE2	1:w:533:PHE:CZ	2.53	0.43
1:y:640:LYS:HE3	1:y:641:HIS:NE2	2.34	0.43
1:z:398:PHE:CE1	1:2:692:LYS:HG2	2.53	0.43
1:1:277:THR:CG2	1:1:375:TYR:HB3	2.48	0.43
1:1:484:ARG:HH11	1:1:574:GLU:C	2.26	0.43
1:1:640:LYS:HE3	1:1:641:HIS:NE2	2.34	0.43
1:2:552:VAL:CG2	1:2:556:LYS:HD2	2.49	0.43
1:3:497:ASN:CB	1:3:498:SER:HA	2.45	0.43
1:3:592:THR:HG22	1:3:593:ALA:N	2.34	0.43
1:4:711:ASP:HB2	1:4:723:PRO:HD2	1.99	0.43
1:4:714:VAL:HG21	1:4:718:GLY:HA2	2.01	0.43
1:5:496:ASN:HA	1:7:586:GLY:O	2.19	0.43
1:7:314:LYS:HB2	1:7:679:SER:HB3	2.00	0.43
1:7:433:LEU:HD13	1:7:433:LEU:O	2.19	0.43
1:8:502:TRP:CD1	1:8:502:TRP:H	2.36	0.43
1:8:552:VAL:CG2	1:8:556:LYS:HD2	2.49	0.43
1:8:640:LYS:HE3	1:8:641:HIS:NE2	2.34	0.43
1:C:592:THR:HG22	1:C:593:ALA:N	2.34	0.43
1:D:342:VAL:HG13	1:D:343:PHE:N	2.31	0.43
1:D:502:TRP:CD1	1:D:502:TRP:H	2.36	0.43
1:E:368:ASP:CG	1:E:369:VAL:H	2.27	0.43
1:E:433:LEU:O	1:E:433:LEU:HD13	2.19	0.43
1:E:586:GLY:O	1:Q:496:ASN:HA	2.19	0.43
1:F:592:THR:HG22	1:F:593:ALA:N	2.34	0.43
1:F:686:LEU:O	1:F:686:LEU:HD12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:466:GLY:N	1:H:473:GLN:HE22	2.17	0.43
1:H:555:GLU:OE1	1:H:555:GLU:N	2.46	0.43
1:H:686:LEU:HD12	1:H:686:LEU:O	2.18	0.43
1:I:592:THR:HG22	1:I:593:ALA:H	1.83	0.43
1:I:640:LYS:HE3	1:I:641:HIS:NE2	2.34	0.43
1:K:421:HIS:HB2	1:K:637:PHE:CE1	2.54	0.43
1:L:375:TYR:CG	1:L:376:GLY:N	2.86	0.43
1:L:484:ARG:HH11	1:L:574:GLU:C	2.26	0.43
1:L:552:VAL:CG2	1:L:556:LYS:HD2	2.49	0.43
1:M:314:LYS:HB2	1:M:679:SER:HB3	2.00	0.43
1:M:497:ASN:CB	1:M:498:SER:HA	2.45	0.43
1:N:339:THR:HG22	1:N:404:ARG:HG2	2.01	0.43
1:N:714:VAL:HG21	1:N:718:GLY:HA2	2.01	0.43
1:P:552:VAL:CG2	1:P:556:LYS:HD2	2.49	0.43
1:P:640:LYS:HE3	1:P:641:HIS:NE2	2.34	0.43
1:Q:352:TYR:CZ	1:Q:354:LEU:HD13	2.54	0.43
1:Q:375:TYR:CG	1:Q:376:GLY:N	2.86	0.43
1:Q:433:LEU:HD13	1:Q:433:LEU:O	2.19	0.43
1:R:402:MET:HE3	1:R:651:THR:HG21	2.00	0.43
1:S:314:LYS:HE3	1:S:314:LYS:HB3	1.85	0.43
1:S:509:HIS:HB3	1:S:514:ASP:OD1	2.19	0.43
1:T:462:PHE:CD2	1:d:557:VAL:HG11	2.53	0.43
1:V:398:PHE:CE1	1:X:692:LYS:HG2	2.54	0.43
1:V:552:VAL:CG2	1:V:556:LYS:HD2	2.49	0.43
1:V:581:THR:N	1:V:591:ALA:O	2.37	0.43
1:W:714:VAL:HG21	1:W:718:GLY:HA2	2.01	0.43
1:X:497:ASN:CB	1:X:498:SER:HA	2.45	0.43
1:X:592:THR:HG22	1:X:593:ALA:N	2.34	0.43
1:Y:378:LEU:HD23	1:Y:378:LEU:HA	1.75	0.43
1:Y:421:HIS:HB2	1:Y:637:PHE:CE1	2.54	0.43
1:Y:466:GLY:N	1:Y:473:GLN:HE22	2.17	0.43
1:Y:611:VAL:O	1:Y:727:GLY:HA2	2.19	0.43
1:Z:608:ASP:HB3	1:Z:609:ARG:H	1.53	0.43
1:a:339:THR:HG22	1:a:404:ARG:HG2	2.01	0.43
1:a:365:PHE:HA	1:a:366:PRO:HD3	1.91	0.43
1:a:714:VAL:HG21	1:a:718:GLY:HA2	2.01	0.43
1:b:552:VAL:CG2	1:b:556:LYS:HD2	2.49	0.43
1:c:287:PHE:HE1	1:c:684:TRP:HH2	1.66	0.43
1:c:421:HIS:HB2	1:c:637:PHE:CE1	2.54	0.43
1:d:402:MET:HE3	1:d:651:THR:HG21	2.00	0.43
1:e:352:TYR:CZ	1:e:354:LEU:HD13	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:397:TYR:HB3	1:e:398:PHE:CD1	2.53	0.43
1:e:532:LYS:HE2	1:e:533:PHE:CZ	2.53	0.43
1:e:555:GLU:OE1	1:e:555:GLU:N	2.46	0.43
1:e:592:THR:HG22	1:e:593:ALA:N	2.34	0.43
1:f:277:THR:CG2	1:f:375:TYR:HB3	2.48	0.43
1:g:592:THR:HG22	1:g:593:ALA:N	2.34	0.43
1:h:314:LYS:HB2	1:h:679:SER:HB3	2.00	0.43
1:h:592:THR:HG22	1:h:593:ALA:H	1.83	0.43
1:i:244:THR:O	1:i:245:ARG:NH1	2.40	0.43
1:i:421:HIS:HB2	1:i:637:PHE:CE1	2.54	0.43
1:i:692:LYS:HG2	1:j:398:PHE:CE1	2.54	0.43
1:j:509:HIS:HB3	1:j:514:ASP:OD1	2.19	0.43
1:j:582:ASN:OD1	1:j:591:ALA:N	2.35	0.43
1:k:314:LYS:HB2	1:k:679:SER:HB3	2.00	0.43
1:k:421:HIS:HB2	1:k:637:PHE:CE1	2.54	0.43
1:l:532:LYS:HE2	1:l:533:PHE:CZ	2.53	0.43
1:m:608:ASP:HB3	1:m:609:ARG:H	1.53	0.43
1:n:397:TYR:HB3	1:n:398:PHE:CD1	2.53	0.43
1:o:421:HIS:HB2	1:o:637:PHE:CE1	2.54	0.43
1:q:344:THR:HB	1:q:646:ILE:HG22	2.00	0.43
1:q:421:HIS:HB2	1:q:637:PHE:CE1	2.54	0.43
1:q:429:SER:OG	1:q:431:ASP:OD1	2.18	0.43
1:r:277:THR:CG2	1:r:375:TYR:HB3	2.48	0.43
1:r:352:TYR:CZ	1:r:354:LEU:HD13	2.54	0.43
1:r:421:HIS:HB2	1:r:637:PHE:CE1	2.54	0.43
1:r:466:GLY:N	1:r:473:GLN:HE22	2.17	0.43
1:s:466:GLY:N	1:s:473:GLN:HE22	2.16	0.43
1:s:686:LEU:HD12	1:s:686:LEU:O	2.18	0.43
1:t:433:LEU:HD13	1:t:433:LEU:O	2.19	0.43
1:t:592:THR:HG22	1:t:593:ALA:H	1.83	0.43
1:u:352:TYR:CZ	1:u:354:LEU:HD13	2.54	0.43
1:u:421:HIS:HB2	1:u:637:PHE:CE1	2.54	0.43
1:u:711:ASP:HB2	1:u:723:PRO:HD2	1.99	0.43
1:w:714:VAL:HG21	1:w:718:GLY:HA2	2.01	0.43
1:x:552:VAL:CG2	1:x:556:LYS:HD2	2.49	0.43
1:y:368:ASP:CG	1:y:369:VAL:H	2.27	0.43
1:y:397:TYR:HB3	1:y:398:PHE:CD1	2.53	0.43
1:y:552:VAL:CG2	1:y:556:LYS:HD2	2.49	0.43
1:z:532:LYS:HE2	1:z:533:PHE:CZ	2.53	0.43
1:z:714:VAL:HG21	1:z:718:GLY:HA2	2.01	0.43
1:1:477:TRP:CH2	1:2:621:ILE:HG22	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:581:THR:OG1	1:1:592:THR:O	2.32	0.43
1:2:402:MET:HE3	1:2:651:THR:HG21	2.00	0.43
1:2:714:VAL:HG21	1:2:718:GLY:HA2	2.01	0.43
1:3:496:ASN:HA	1:4:586:GLY:O	2.19	0.43
1:3:545:GLN:HA	1:3:546:GLY:HA2	1.77	0.43
1:4:397:TYR:HB3	1:4:398:PHE:CD1	2.53	0.43
1:4:640:LYS:HE3	1:4:641:HIS:NE2	2.34	0.43
1:5:375:TYR:CG	1:5:376:GLY:N	2.86	0.43
1:5:477:TRP:CH2	1:6:621:ILE:HG22	2.53	0.43
1:6:497:ASN:CB	1:6:498:SER:HA	2.45	0.43
1:7:344:THR:HB	1:7:646:ILE:HG22	2.00	0.43
1:7:466:GLY:N	1:7:473:GLN:HE22	2.16	0.43
1:A:352:TYR:CZ	1:A:354:LEU:HD13	2.54	0.43
1:A:421:HIS:HB2	1:A:637:PHE:CE1	2.54	0.43
1:B:277:THR:CG2	1:B:375:TYR:HB3	2.48	0.43
1:B:443:TYR:CE1	1:B:464:GLN:HB2	2.52	0.43
1:B:466:GLY:N	1:B:473:GLN:HE22	2.17	0.43
1:B:552:VAL:CG2	1:B:556:LYS:HD2	2.49	0.43
1:B:592:THR:HG22	1:B:593:ALA:N	2.34	0.43
1:C:342:VAL:HG13	1:C:343:PHE:N	2.31	0.43
1:C:344:THR:HB	1:C:646:ILE:HG22	2.00	0.43
1:C:552:VAL:CG2	1:C:556:LYS:HD2	2.49	0.43
1:D:244:THR:O	1:D:245:ARG:NH1	2.40	0.43
1:D:421:HIS:HB2	1:D:637:PHE:CE1	2.54	0.43
1:E:344:THR:HB	1:E:646:ILE:HG22	2.00	0.43
1:E:466:GLY:N	1:E:473:GLN:HE22	2.16	0.43
1:E:611:VAL:O	1:E:727:GLY:HA2	2.19	0.43
1:G:421:HIS:HB2	1:G:637:PHE:CE1	2.54	0.43
1:G:477:TRP:CH2	1:I:621:ILE:HG22	2.54	0.43
1:G:640:LYS:HE3	1:G:641:HIS:NE2	2.34	0.43
1:H:433:LEU:HD13	1:H:433:LEU:O	2.19	0.43
1:H:592:THR:HG22	1:H:593:ALA:N	2.34	0.43
1:H:640:LYS:HE3	1:H:641:HIS:NE2	2.34	0.43
1:I:287:PHE:HE1	1:I:684:TRP:HH2	1.66	0.43
1:I:402:MET:HE3	1:I:651:THR:HG21	2.00	0.43
1:I:421:HIS:HB2	1:I:637:PHE:CE1	2.54	0.43
1:I:651:THR:HA	1:I:652:PRO:HD3	1.92	0.43
1:J:314:LYS:HB2	1:J:679:SER:HB3	2.00	0.43
1:K:502:TRP:CD1	1:K:502:TRP:H	2.36	0.43
1:K:592:THR:HG22	1:K:593:ALA:N	2.34	0.43
1:K:692:LYS:HG2	1:a:398:PHE:CE1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:342:VAL:HG13	1:L:343:PHE:N	2.31	0.43
1:L:433:LEU:HD13	1:L:433:LEU:O	2.19	0.43
1:M:555:GLU:OE1	1:M:555:GLU:N	2.46	0.43
1:N:342:VAL:HG13	1:N:343:PHE:N	2.31	0.43
1:N:484:ARG:HH11	1:N:574:GLU:C	2.26	0.43
1:O:421:HIS:HB2	1:O:637:PHE:CE1	2.54	0.43
1:O:611:VAL:O	1:O:727:GLY:HA2	2.19	0.43
1:Q:339:THR:HG22	1:Q:404:ARG:HG2	2.01	0.43
1:Q:421:HIS:HB2	1:Q:637:PHE:CE1	2.54	0.43
1:R:484:ARG:HH11	1:R:574:GLU:C	2.26	0.43
1:R:640:LYS:HE3	1:R:641:HIS:NE2	2.34	0.43
1:T:640:LYS:HE3	1:T:641:HIS:NE2	2.34	0.43
1:V:397:TYR:HB3	1:V:398:PHE:CD1	2.53	0.43
1:V:421:HIS:HB2	1:V:637:PHE:CE1	2.54	0.43
1:V:466:GLY:N	1:V:473:GLN:HE22	2.16	0.43
1:V:692:LYS:HG2	1:e:398:PHE:CE1	2.54	0.43
1:X:354:LEU:O	1:X:356:SER:N	2.47	0.43
1:Y:277:THR:CG2	1:Y:375:TYR:HB3	2.48	0.43
1:Y:325:GLN:NE2	1:Y:330:THR:HG22	2.34	0.43
1:Y:640:LYS:HE3	1:Y:641:HIS:NE2	2.34	0.43
1:Z:368:ASP:CG	1:Z:369:VAL:H	2.27	0.43
1:Z:502:TRP:CD1	1:Z:502:TRP:H	2.36	0.43
1:Z:586:GLY:O	1:4:496:ASN:HA	2.19	0.43
1:a:342:VAL:HG13	1:a:343:PHE:N	2.31	0.43
1:a:611:VAL:O	1:a:727:GLY:HA2	2.19	0.43
1:b:277:THR:CG2	1:b:375:TYR:HB3	2.48	0.43
1:b:592:THR:HG22	1:b:593:ALA:N	2.34	0.43
1:d:714:VAL:HG21	1:d:718:GLY:HA2	2.01	0.43
1:e:439:ASP:CB	1:e:466:GLY:HA3	2.48	0.43
1:e:592:THR:HG22	1:e:593:ALA:H	1.83	0.43
1:f:398:PHE:CE1	1:g:692:LYS:HG2	2.54	0.43
1:f:433:LEU:HD13	1:f:433:LEU:O	2.19	0.43
1:f:574:GLU:HB3	1:h:509:HIS:HE2	1.83	0.43
1:f:711:ASP:HB2	1:f:723:PRO:HD2	1.99	0.43
1:g:421:HIS:HB2	1:g:637:PHE:CE1	2.54	0.43
1:h:502:TRP:H	1:h:502:TRP:CD1	2.36	0.43
1:j:574:GLU:HB3	1:k:509:HIS:HE2	1.83	0.43
1:j:620:LYS:HD3	1:j:642:PRO:CD	2.49	0.43
1:k:497:ASN:CB	1:k:498:SER:HA	2.45	0.43
1:l:378:LEU:HD23	1:l:378:LEU:HA	1.75	0.43
1:m:368:ASP:CG	1:m:369:VAL:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:552:VAL:CG2	1:m:556:LYS:HD2	2.49	0.43
1:n:277:THR:CG2	1:n:375:TYR:HB3	2.48	0.43
1:n:592:THR:HG22	1:n:593:ALA:N	2.34	0.43
1:o:352:TYR:CZ	1:o:354:LEU:HD13	2.53	0.43
1:p:397:TYR:HB3	1:p:398:PHE:CD1	2.53	0.43
1:q:557:VAL:HG11	1:s:462:PHE:CD2	2.54	0.43
1:q:612:TYR:HD1	1:q:727:GLY:HA3	1.82	0.43
1:q:640:LYS:HE3	1:q:641:HIS:NE2	2.34	0.43
1:s:344:THR:HB	1:s:646:ILE:HG22	2.00	0.43
1:s:421:HIS:HB2	1:s:637:PHE:CE1	2.54	0.43
1:s:640:LYS:HE3	1:s:641:HIS:NE2	2.34	0.43
1:t:466:GLY:N	1:t:473:GLN:HE22	2.17	0.43
1:t:586:GLY:O	1:u:496:ASN:HA	2.19	0.43
1:u:640:LYS:HE3	1:u:641:HIS:NE2	2.34	0.43
1:v:433:LEU:HD13	1:v:433:LEU:O	2.19	0.43
1:v:509:HIS:HB3	1:v:514:ASP:OD1	2.19	0.43
1:w:439:ASP:CB	1:w:466:GLY:HA3	2.48	0.43
1:w:552:VAL:CG2	1:w:556:LYS:HD2	2.49	0.43
1:w:592:THR:HG22	1:w:593:ALA:N	2.34	0.43
1:w:621:ILE:HG22	1:y:477:TRP:CH2	2.54	0.43
1:w:692:LYS:HG2	1:x:398:PHE:CE1	2.53	0.43
1:x:354:LEU:O	1:x:356:SER:N	2.47	0.43
1:x:592:THR:HG22	1:x:593:ALA:N	2.34	0.43
1:y:421:HIS:HB2	1:y:637:PHE:CE1	2.54	0.43
1:y:509:HIS:HB3	1:y:514:ASP:OD1	2.18	0.43
1:z:397:TYR:HB3	1:z:398:PHE:CD1	2.53	0.43
1:z:477:TRP:CH2	1:1:621:ILE:HG22	2.53	0.43
1:2:446:SER:OG	1:2:447:ARG:N	2.52	0.43
1:3:421:HIS:HB2	1:3:637:PHE:CE1	2.54	0.43
1:4:277:THR:CG2	1:4:375:TYR:HB3	2.48	0.43
1:4:552:VAL:CG2	1:4:556:LYS:HD2	2.49	0.43
1:4:592:THR:HG22	1:4:593:ALA:N	2.34	0.43
1:5:352:TYR:CZ	1:5:354:LEU:HD13	2.53	0.43
1:5:433:LEU:HD13	1:5:433:LEU:O	2.19	0.43
1:5:581:THR:OG1	1:5:592:THR:O	2.32	0.43
1:5:592:THR:HG22	1:5:593:ALA:H	1.83	0.43
1:6:592:THR:HG22	1:6:593:ALA:N	2.34	0.43
1:7:421:HIS:HB2	1:7:637:PHE:CE1	2.54	0.43
1:7:611:VAL:O	1:7:727:GLY:HA2	2.19	0.43
1:8:509:HIS:HB3	1:8:514:ASP:OD1	2.19	0.43
1:8:714:VAL:HG21	1:8:718:GLY:HA2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:375:TYR:CG	1:C:376:GLY:N	2.86	0.42
1:C:446:SER:OG	1:C:447:ARG:N	2.52	0.42
1:D:446:SER:OG	1:D:447:ARG:N	2.52	0.42
1:D:466:GLY:N	1:D:473:GLN:HE22	2.17	0.42
1:D:545:GLN:HA	1:D:546:GLY:HA2	1.77	0.42
1:D:592:THR:HG22	1:D:593:ALA:N	2.34	0.42
1:D:620:LYS:HD3	1:D:642:PRO:CD	2.49	0.42
1:D:692:LYS:HG2	1:N:398:PHE:CE1	2.54	0.42
1:E:421:HIS:HB2	1:E:637:PHE:CE1	2.54	0.42
1:E:640:LYS:HE3	1:E:641:HIS:NE2	2.34	0.42
1:G:339:THR:HG22	1:G:404:ARG:HG2	2.01	0.42
1:H:339:THR:HG22	1:H:404:ARG:HG2	2.01	0.42
1:H:344:THR:HB	1:H:646:ILE:HG22	2.00	0.42
1:H:421:HIS:HB2	1:H:637:PHE:CE1	2.54	0.42
1:H:532:LYS:HE2	1:H:533:PHE:CZ	2.53	0.42
1:I:545:GLN:HA	1:I:546:GLY:HA2	1.77	0.42
1:J:555:GLU:OE1	1:J:555:GLU:N	2.46	0.42
1:J:592:THR:HG22	1:J:593:ALA:N	2.34	0.42
1:K:446:SER:OG	1:K:447:ARG:N	2.52	0.42
1:M:352:TYR:CZ	1:M:354:LEU:HD13	2.53	0.42
1:M:592:THR:HG22	1:M:593:ALA:N	2.34	0.42
1:N:446:SER:OG	1:N:447:ARG:N	2.52	0.42
1:N:611:VAL:O	1:N:727:GLY:HA2	2.19	0.42
1:O:317:ASN:HB3	1:O:677:GLN:HG2	1.99	0.42
1:O:446:SER:OG	1:O:447:ARG:N	2.52	0.42
1:Q:466:GLY:N	1:Q:473:GLN:HE22	2.17	0.42
1:Q:592:THR:HG22	1:Q:593:ALA:H	1.83	0.42
1:Q:611:VAL:O	1:Q:727:GLY:HA2	2.18	0.42
1:Q:620:LYS:HD3	1:Q:642:PRO:CD	2.49	0.42
1:R:433:LEU:HD13	1:R:433:LEU:O	2.19	0.42
1:R:466:GLY:N	1:R:473:GLN:HE22	2.16	0.42
1:R:586:GLY:O	1:S:496:ASN:HA	2.19	0.42
1:S:314:LYS:HB2	1:S:679:SER:HB3	2.00	0.42
1:S:339:THR:HG22	1:S:404:ARG:HG2	2.01	0.42
1:S:402:MET:HE3	1:S:651:THR:HG21	2.00	0.42
1:S:711:ASP:HB2	1:S:723:PRO:HD2	1.99	0.42
1:T:368:ASP:CG	1:T:369:VAL:H	2.27	0.42
1:U:421:HIS:HB2	1:U:637:PHE:CE1	2.54	0.42
1:U:433:LEU:HD13	1:U:433:LEU:O	2.19	0.42
1:U:449:ASN:O	1:U:450:THR:OG1	2.20	0.42
1:U:581:THR:OG1	1:U:592:THR:O	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:352:TYR:CZ	1:V:354:LEU:HD13	2.53	0.42
1:W:277:THR:CG2	1:W:375:TYR:HB3	2.48	0.42
1:W:433:LEU:HD13	1:W:433:LEU:O	2.19	0.42
1:W:497:ASN:CB	1:W:498:SER:HA	2.45	0.42
1:W:586:GLY:O	1:Y:496:ASN:HA	2.19	0.42
1:W:640:LYS:HE3	1:W:641:HIS:NE2	2.34	0.42
1:Y:342:VAL:HG13	1:Y:343:PHE:N	2.31	0.42
1:Y:446:SER:OG	1:Y:447:ARG:N	2.52	0.42
1:Z:470:ILE:C	1:Z:472:ASP:N	2.76	0.42
1:Z:552:VAL:CG2	1:Z:556:LYS:HD2	2.49	0.42
1:a:402:MET:HE3	1:a:651:THR:HG21	2.00	0.42
1:a:421:HIS:HB2	1:a:637:PHE:CE1	2.54	0.42
1:a:446:SER:OG	1:a:447:ARG:N	2.52	0.42
1:b:466:GLY:N	1:b:473:GLN:HE22	2.17	0.42
1:c:270:ASN:OD1	1:p:471:ARG:HD3	2.19	0.42
1:d:446:SER:OG	1:d:447:ARG:N	2.52	0.42
1:e:552:VAL:CG2	1:e:556:LYS:HD2	2.49	0.42
1:g:398:PHE:CE1	1:h:692:LYS:HG2	2.54	0.42
1:h:352:TYR:CZ	1:h:354:LEU:HD13	2.54	0.42
1:h:552:VAL:CG2	1:h:556:LYS:HD2	2.49	0.42
1:i:398:PHE:CE1	1:k:692:LYS:HG2	2.54	0.42
1:i:592:THR:HG22	1:i:593:ALA:N	2.34	0.42
1:j:433:LEU:HD13	1:j:433:LEU:O	2.19	0.42
1:k:277:THR:CG2	1:k:375:TYR:HB3	2.48	0.42
1:k:314:LYS:HE3	1:k:314:LYS:HB3	1.85	0.42
1:k:339:THR:HG22	1:k:404:ARG:HG2	2.01	0.42
1:k:352:TYR:CZ	1:k:354:LEU:HD13	2.53	0.42
1:l:581:THR:OG1	1:l:592:THR:O	2.32	0.42
1:m:433:LEU:HD13	1:m:433:LEU:O	2.19	0.42
1:m:470:ILE:C	1:m:472:ASP:N	2.76	0.42
1:m:484:ARG:HH11	1:m:574:GLU:C	2.26	0.42
1:m:502:TRP:CD1	1:m:502:TRP:H	2.36	0.42
1:n:552:VAL:CG2	1:n:556:LYS:HD2	2.49	0.42
1:n:608:ASP:HB3	1:n:609:ARG:H	1.53	0.42
1:o:402:MET:HE3	1:o:651:THR:HG21	2.00	0.42
1:p:339:THR:HG22	1:p:404:ARG:HG2	2.01	0.42
1:p:368:ASP:HB3	1:q:665:LYS:HD2	2.01	0.42
1:p:421:HIS:HB2	1:p:637:PHE:CE1	2.54	0.42
1:p:714:VAL:HG21	1:p:718:GLY:HA2	2.01	0.42
1:q:277:THR:CG2	1:q:375:TYR:HB3	2.48	0.42
1:q:375:TYR:CG	1:q:376:GLY:N	2.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:714:VAL:HG21	1:q:718:GLY:HA2	2.01	0.42
1:r:325:GLN:NE2	1:r:330:THR:HG22	2.34	0.42
1:r:446:SER:OG	1:r:447:ARG:N	2.52	0.42
1:r:592:THR:HG22	1:r:593:ALA:H	1.83	0.42
1:r:611:VAL:O	1:r:727:GLY:HA2	2.19	0.42
1:s:592:THR:HG22	1:s:593:ALA:N	2.34	0.42
1:t:640:LYS:HE3	1:t:641:HIS:NE2	2.34	0.42
1:u:339:THR:HG22	1:u:404:ARG:HG2	2.01	0.42
1:u:586:GLY:O	1:v:496:ASN:HA	2.19	0.42
1:u:592:THR:HG22	1:u:593:ALA:H	1.83	0.42
1:v:611:VAL:O	1:v:727:GLY:HA2	2.19	0.42
1:w:314:LYS:HB2	1:w:679:SER:HB3	2.00	0.42
1:w:352:TYR:CZ	1:w:354:LEU:HD13	2.54	0.42
1:w:555:GLU:OE1	1:w:555:GLU:N	2.46	0.42
1:w:592:THR:HG22	1:w:593:ALA:H	1.83	0.42
1:x:342:VAL:HG13	1:x:343:PHE:N	2.31	0.42
1:x:692:LYS:HG2	1:y:398:PHE:CE1	2.54	0.42
1:z:314:LYS:HB2	1:z:679:SER:HB3	2.00	0.42
1:1:368:ASP:CG	1:1:369:VAL:H	2.27	0.42
1:2:466:GLY:N	1:2:473:GLN:HE22	2.16	0.42
1:3:317:ASN:HB3	1:3:677:GLN:HG2	1.99	0.42
1:3:398:PHE:CE1	1:4:692:LYS:HG2	2.54	0.42
1:3:446:SER:OG	1:3:447:ARG:N	2.52	0.42
1:3:611:VAL:O	1:3:727:GLY:HA2	2.19	0.42
1:5:339:THR:HG22	1:5:404:ARG:HG2	2.01	0.42
1:5:466:GLY:N	1:5:473:GLN:HE22	2.16	0.42
1:5:640:LYS:HE3	1:5:641:HIS:NE2	2.34	0.42
1:6:686:LEU:O	1:6:686:LEU:HD12	2.18	0.42
1:7:402:MET:HE3	1:7:651:THR:HG21	2.00	0.42
1:7:640:LYS:HE3	1:7:641:HIS:NE2	2.34	0.42
1:8:592:THR:HG22	1:8:593:ALA:H	1.83	0.42
1:A:402:MET:HE3	1:A:651:THR:HG21	2.00	0.42
1:A:477:TRP:CH2	1:G:621:ILE:HG22	2.54	0.42
1:E:339:THR:HG22	1:E:404:ARG:HG2	2.01	0.42
1:E:378:LEU:HD23	1:E:378:LEU:HA	1.75	0.42
1:E:402:MET:HE3	1:E:651:THR:HG21	2.00	0.42
1:E:545:GLN:HA	1:E:546:GLY:HA2	1.77	0.42
1:F:352:TYR:CZ	1:F:354:LEU:HD13	2.54	0.42
1:G:397:TYR:HB3	1:G:398:PHE:CD1	2.53	0.42
1:G:714:VAL:HG21	1:G:718:GLY:HA2	2.01	0.42
1:H:581:THR:OG1	1:H:592:THR:O	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:586:GLY:O	1:W:496:ASN:HA	2.19	0.42
1:I:433:LEU:HD13	1:I:433:LEU:O	2.19	0.42
1:J:339:THR:HG22	1:J:404:ARG:HG2	2.01	0.42
1:J:716:THR:HG23	1:J:717:ASN:N	2.35	0.42
1:K:433:LEU:HD13	1:K:433:LEU:O	2.19	0.42
1:K:466:GLY:N	1:K:473:GLN:HE22	2.17	0.42
1:K:620:LYS:HD3	1:K:642:PRO:CD	2.49	0.42
1:L:446:SER:OG	1:L:447:ARG:N	2.52	0.42
1:M:339:THR:HG22	1:M:404:ARG:HG2	2.01	0.42
1:O:277:THR:CG2	1:O:375:TYR:HB3	2.48	0.42
1:P:277:THR:CG2	1:P:375:TYR:HB3	2.48	0.42
1:P:421:HIS:HB2	1:P:637:PHE:CE1	2.54	0.42
1:P:592:THR:HG22	1:P:593:ALA:H	1.83	0.42
1:P:714:VAL:HG21	1:P:718:GLY:HA2	2.01	0.42
1:Q:640:LYS:HE3	1:Q:641:HIS:NE2	2.34	0.42
1:R:714:VAL:HG21	1:R:718:GLY:HA2	2.01	0.42
1:S:397:TYR:HB3	1:S:398:PHE:CD1	2.53	0.42
1:S:433:LEU:HD13	1:S:433:LEU:O	2.19	0.42
1:S:592:THR:HG22	1:S:593:ALA:N	2.34	0.42
1:T:314:LYS:HB2	1:T:679:SER:HB3	2.00	0.42
1:T:502:TRP:CD1	1:T:502:TRP:H	2.36	0.42
1:T:552:VAL:CG2	1:T:556:LYS:HD2	2.49	0.42
1:U:466:GLY:N	1:U:473:GLN:HE22	2.16	0.42
1:V:446:SER:OG	1:V:447:ARG:N	2.53	0.42
1:V:509:HIS:HB3	1:V:514:ASP:OD1	2.19	0.42
1:W:339:THR:HG22	1:W:404:ARG:HG2	2.01	0.42
1:X:433:LEU:HD13	1:X:433:LEU:O	2.19	0.42
1:Z:492:SER:OG	1:3:458:SER:OG	2.31	0.42
1:Z:592:THR:HG22	1:Z:593:ALA:H	1.83	0.42
1:a:509:HIS:HB3	1:a:514:ASP:OD1	2.18	0.42
1:a:586:GLY:O	1:8:496:ASN:HA	2.19	0.42
1:c:473:GLN:O	1:c:475:ARG:HG3	2.20	0.42
1:c:651:THR:HA	1:c:652:PRO:HD3	1.92	0.42
1:d:462:PHE:CD2	1:l:557:VAL:HG11	2.54	0.42
1:d:466:GLY:N	1:d:473:GLN:HE22	2.16	0.42
1:e:314:LYS:HB2	1:e:679:SER:HB3	2.00	0.42
1:e:716:THR:HG23	1:e:717:ASN:N	2.35	0.42
1:f:582:ASN:OD1	1:f:591:ALA:N	2.35	0.42
1:h:277:THR:CG2	1:h:375:TYR:HB3	2.48	0.42
1:h:339:THR:HG22	1:h:404:ARG:HG2	2.01	0.42
1:h:509:HIS:HB3	1:h:514:ASP:OD1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:352:TYR:CZ	1:j:354:LEU:HD13	2.54	0.42
1:j:552:VAL:CG2	1:j:556:LYS:HD2	2.49	0.42
1:j:711:ASP:HB2	1:j:723:PRO:HD2	1.99	0.42
1:k:502:TRP:H	1:k:502:TRP:CD1	2.36	0.42
1:l:314:LYS:HB2	1:l:679:SER:HB3	2.00	0.42
1:l:325:GLN:NE2	1:l:330:THR:HG22	2.34	0.42
1:l:502:TRP:H	1:l:502:TRP:CD1	2.36	0.42
1:l:716:THR:HG23	1:l:717:ASN:N	2.35	0.42
1:m:339:THR:HG22	1:m:404:ARG:HG2	2.01	0.42
1:m:592:THR:HG22	1:m:593:ALA:H	1.83	0.42
1:n:421:HIS:HB2	1:n:637:PHE:CE1	2.54	0.42
1:o:433:LEU:HD13	1:o:433:LEU:O	2.19	0.42
1:p:502:TRP:H	1:p:502:TRP:CD1	2.36	0.42
1:p:640:LYS:HE3	1:p:641:HIS:NE2	2.34	0.42
1:q:339:THR:HG22	1:q:404:ARG:HG2	2.01	0.42
1:q:433:LEU:HD13	1:q:433:LEU:O	2.19	0.42
1:r:354:LEU:O	1:r:356:SER:N	2.47	0.42
1:r:640:LYS:HE3	1:r:641:HIS:NE2	2.34	0.42
1:s:339:THR:HG22	1:s:404:ARG:HG2	2.01	0.42
1:s:532:LYS:HE2	1:s:533:PHE:CZ	2.53	0.42
1:t:473:GLN:O	1:t:475:ARG:HG3	2.20	0.42
1:t:716:THR:HG23	1:t:717:ASN:N	2.35	0.42
1:u:314:LYS:HE3	1:u:314:LYS:HB3	1.85	0.42
1:u:314:LYS:HB2	1:u:679:SER:HB3	2.00	0.42
1:u:592:THR:HG22	1:u:593:ALA:N	2.34	0.42
1:v:421:HIS:HB2	1:v:637:PHE:CE1	2.54	0.42
1:w:502:TRP:H	1:w:502:TRP:CD1	2.36	0.42
1:x:433:LEU:HD13	1:x:433:LEU:O	2.19	0.42
1:y:352:TYR:CZ	1:y:354:LEU:HD13	2.54	0.42
1:y:446:SER:OG	1:y:447:ARG:N	2.52	0.42
1:y:466:GLY:N	1:y:473:GLN:HE22	2.17	0.42
1:z:339:THR:HG22	1:z:404:ARG:HG2	2.01	0.42
1:z:378:LEU:HD23	1:z:378:LEU:HA	1.75	0.42
1:z:421:HIS:HB2	1:z:637:PHE:CE1	2.54	0.42
1:z:621:ILE:HG22	1:2:477:TRP:CH2	2.55	0.42
1:1:692:LYS:HG2	1:2:398:PHE:CE1	2.53	0.42
1:2:449:ASN:O	1:2:450:THR:OG1	2.20	0.42
1:2:592:THR:HG22	1:2:593:ALA:N	2.34	0.42
1:2:640:LYS:HE3	1:2:641:HIS:NE2	2.34	0.42
1:3:277:THR:CG2	1:3:375:TYR:HB3	2.48	0.42
1:5:620:LYS:HD3	1:5:642:PRO:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:692:LYS:HG2	1:6:398:PHE:CE1	2.54	0.42
1:6:342:VAL:HG13	1:6:343:PHE:N	2.31	0.42
1:6:352:TYR:CZ	1:6:354:LEU:HD13	2.53	0.42
1:7:378:LEU:HD23	1:7:378:LEU:HA	1.75	0.42
1:A:592:THR:HG22	1:A:593:ALA:N	2.34	0.42
1:B:581:THR:OG1	1:B:592:THR:O	2.32	0.42
1:B:715:ASP:CG	1:B:716:THR:N	2.75	0.42
1:B:716:THR:HG23	1:B:717:ASN:N	2.35	0.42
1:D:339:THR:HG22	1:D:404:ARG:HG2	2.01	0.42
1:D:433:LEU:HD13	1:D:433:LEU:O	2.19	0.42
1:E:496:ASN:HA	1:F:586:GLY:O	2.19	0.42
1:F:342:VAL:HG13	1:F:343:PHE:N	2.31	0.42
1:F:398:PHE:CE1	1:Q:692:LYS:HG2	2.54	0.42
1:F:581:THR:OG1	1:F:592:THR:O	2.32	0.42
1:G:433:LEU:HD13	1:G:433:LEU:O	2.19	0.42
1:G:502:TRP:CD1	1:G:502:TRP:H	2.36	0.42
1:I:473:GLN:O	1:I:475:ARG:HG3	2.20	0.42
1:J:352:TYR:CZ	1:J:354:LEU:HD13	2.54	0.42
1:K:287:PHE:HE1	1:K:684:TRP:HH2	1.66	0.42
1:K:342:VAL:HG13	1:K:343:PHE:N	2.31	0.42
1:L:509:HIS:HB3	1:L:514:ASP:OD1	2.19	0.42
1:L:592:THR:HG22	1:L:593:ALA:N	2.34	0.42
1:M:716:THR:HG23	1:M:717:ASN:N	2.35	0.42
1:N:421:HIS:HB2	1:N:637:PHE:CE1	2.54	0.42
1:N:509:HIS:HB3	1:N:514:ASP:OD1	2.19	0.42
1:O:502:TRP:CD1	1:O:502:TRP:H	2.36	0.42
1:R:473:GLN:O	1:R:475:ARG:HG3	2.20	0.42
1:R:552:VAL:CG2	1:R:556:LYS:HD2	2.49	0.42
1:R:716:THR:HG23	1:R:717:ASN:N	2.35	0.42
1:S:502:TRP:CD1	1:S:502:TRP:H	2.36	0.42
1:S:592:THR:HG22	1:S:593:ALA:H	1.83	0.42
1:U:611:VAL:O	1:U:727:GLY:HA2	2.19	0.42
1:U:620:LYS:HD3	1:U:642:PRO:CD	2.49	0.42
1:V:592:THR:HG22	1:V:593:ALA:H	1.83	0.42
1:X:485:GLN:HB2	1:X:573:THR:HG22	2.02	0.42
1:Y:592:THR:HG22	1:Y:593:ALA:H	1.83	0.42
1:Z:433:LEU:HD13	1:Z:433:LEU:O	2.19	0.42
1:Z:484:ARG:HH11	1:Z:574:GLU:C	2.26	0.42
1:Z:611:VAL:O	1:Z:727:GLY:HA2	2.19	0.42
1:Z:692:LYS:HG2	1:4:398:PHE:CE1	2.54	0.42
1:a:473:GLN:O	1:a:475:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:484:ARG:HH11	1:a:574:GLU:C	2.26	0.42
1:b:545:GLN:HA	1:b:546:GLY:HA2	1.77	0.42
1:c:402:MET:HE3	1:c:651:THR:HG21	2.00	0.42
1:c:433:LEU:HD13	1:c:433:LEU:O	2.19	0.42
1:d:592:THR:HG22	1:d:593:ALA:H	1.83	0.42
1:d:592:THR:HG22	1:d:593:ALA:N	2.34	0.42
1:d:640:LYS:HE3	1:d:641:HIS:NE2	2.34	0.42
1:e:421:HIS:HB2	1:e:637:PHE:CE1	2.54	0.42
1:e:502:TRP:H	1:e:502:TRP:CD1	2.36	0.42
1:f:352:TYR:CZ	1:f:354:LEU:HD13	2.54	0.42
1:f:496:ASN:HA	1:g:586:GLY:O	2.19	0.42
1:f:548:GLU:O	1:f:552:VAL:HB	2.20	0.42
1:f:552:VAL:CG2	1:f:556:LYS:HD2	2.49	0.42
1:f:716:THR:HG23	1:f:717:ASN:N	2.34	0.42
1:g:325:GLN:NE2	1:g:330:THR:HG22	2.34	0.42
1:i:325:GLN:NE2	1:i:330:THR:HG22	2.34	0.42
1:i:611:VAL:O	1:i:727:GLY:HA2	2.19	0.42
1:i:620:LYS:HD3	1:i:642:PRO:CD	2.49	0.42
1:k:433:LEU:HD13	1:k:433:LEU:O	2.19	0.42
1:k:484:ARG:HH11	1:k:574:GLU:C	2.26	0.42
1:k:509:HIS:HB3	1:k:514:ASP:OD1	2.19	0.42
1:k:592:THR:HG22	1:k:593:ALA:N	2.34	0.42
1:l:339:THR:HG22	1:l:404:ARG:HG2	2.01	0.42
1:l:397:TYR:HB3	1:l:398:PHE:CD1	2.53	0.42
1:l:548:GLU:O	1:l:552:VAL:HB	2.20	0.42
1:l:592:THR:HG22	1:l:593:ALA:N	2.34	0.42
1:m:466:GLY:N	1:m:473:GLN:HE22	2.17	0.42
1:m:640:LYS:HE3	1:m:641:HIS:NE2	2.34	0.42
1:p:555:GLU:OE1	1:p:555:GLU:N	2.46	0.42
1:q:586:GLY:O	1:r:496:ASN:HA	2.19	0.42
1:r:342:VAL:HG13	1:r:343:PHE:N	2.31	0.42
1:r:378:LEU:HD23	1:r:378:LEU:HA	1.75	0.42
1:r:592:THR:HG22	1:r:593:ALA:N	2.34	0.42
1:s:555:GLU:OE1	1:s:555:GLU:N	2.46	0.42
1:t:287:PHE:HE1	1:t:684:TRP:HH2	1.65	0.42
1:t:552:VAL:CG2	1:t:556:LYS:HD2	2.49	0.42
1:u:365:PHE:HA	1:u:366:PRO:HD3	1.91	0.42
1:u:397:TYR:HB3	1:u:398:PHE:CD1	2.53	0.42
1:u:402:MET:HE3	1:u:651:THR:HG21	2.00	0.42
1:u:433:LEU:HD13	1:u:433:LEU:O	2.19	0.42
1:v:466:GLY:N	1:v:473:GLN:HE22	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:485:GLN:HB2	1:x:573:THR:HG22	2.02	0.42
1:x:497:ASN:CB	1:x:498:SER:HA	2.45	0.42
1:y:592:THR:HG22	1:y:593:ALA:H	1.83	0.42
1:z:325:GLN:NE2	1:z:330:THR:HG22	2.34	0.42
1:z:443:TYR:HH	1:1:547:SER:HG	1.59	0.42
1:z:581:THR:OG1	1:z:592:THR:O	2.32	0.42
1:z:716:THR:HG23	1:z:717:ASN:N	2.35	0.42
1:1:314:LYS:HB2	1:1:679:SER:HB3	2.00	0.42
1:1:378:LEU:HA	1:1:378:LEU:HD23	1.75	0.42
1:1:586:GLY:O	1:2:496:ASN:HA	2.19	0.42
1:4:421:HIS:HB2	1:4:637:PHE:CE1	2.54	0.42
1:4:509:HIS:HB3	1:4:514:ASP:OD1	2.19	0.42
1:5:421:HIS:HB2	1:5:637:PHE:CE1	2.54	0.42
1:6:477:TRP:CH2	1:7:621:ILE:HG22	2.53	0.42
1:6:658:SER:O	1:6:659:THR:OG1	2.27	0.42
1:6:692:LYS:HG2	1:7:398:PHE:CE1	2.54	0.42
1:7:287:PHE:HE1	1:7:684:TRP:HH2	1.66	0.42
1:8:378:LEU:HD23	1:8:378:LEU:HA	1.75	0.42
1:8:421:HIS:HB2	1:8:637:PHE:CE1	2.54	0.42
1:A:433:LEU:O	1:A:433:LEU:HD13	2.19	0.42
1:A:552:VAL:CG2	1:A:556:LYS:HD2	2.49	0.42
1:B:314:LYS:HB2	1:B:679:SER:HB3	2.00	0.42
1:C:314:LYS:HB2	1:C:679:SER:HB3	2.00	0.42
1:C:509:HIS:HB3	1:C:514:ASP:OD1	2.19	0.42
1:C:692:LYS:HG2	1:b:398:PHE:CE1	2.54	0.42
1:D:287:PHE:HE1	1:D:684:TRP:HH2	1.65	0.42
1:E:287:PHE:HE1	1:E:684:TRP:HH2	1.66	0.42
1:E:398:PHE:CE1	1:F:692:LYS:HG2	2.54	0.42
1:E:552:VAL:CG2	1:E:556:LYS:HD2	2.49	0.42
1:E:592:THR:HG22	1:E:593:ALA:H	1.83	0.42
1:F:502:TRP:H	1:F:502:TRP:CD1	2.36	0.42
1:G:509:HIS:HB3	1:G:514:ASP:OD1	2.19	0.42
1:G:555:GLU:OE1	1:G:555:GLU:N	2.46	0.42
1:G:611:VAL:O	1:G:727:GLY:HA2	2.19	0.42
1:H:714:VAL:HG21	1:H:718:GLY:HA2	2.01	0.42
1:I:446:SER:OG	1:I:447:ARG:N	2.52	0.42
1:J:692:LYS:HG2	1:L:398:PHE:CE1	2.54	0.42
1:L:421:HIS:HB2	1:L:637:PHE:CE1	2.54	0.42
1:N:365:PHE:HA	1:N:366:PRO:HD3	1.91	0.42
1:N:473:GLN:O	1:N:475:ARG:HG3	2.20	0.42
1:N:586:GLY:O	1:P:496:ASN:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:470:ILE:C	1:O:472:ASP:N	2.76	0.42
1:O:613:LEU:HD23	1:O:726:ILE:HB	2.00	0.42
1:Q:716:THR:HG23	1:Q:717:ASN:N	2.35	0.42
1:R:485:GLN:HB2	1:R:573:THR:HG22	2.02	0.42
1:S:473:GLN:O	1:S:475:ARG:HG3	2.20	0.42
1:T:548:GLU:O	1:T:552:VAL:HB	2.20	0.42
1:W:470:ILE:C	1:W:472:ASP:N	2.76	0.42
1:W:485:GLN:HB2	1:W:573:THR:HG22	2.02	0.42
1:W:612:TYR:HD1	1:W:727:GLY:HA3	1.83	0.42
1:X:398:PHE:CE1	1:e:692:LYS:HG2	2.54	0.42
1:X:446:SER:OG	1:X:447:ARG:N	2.52	0.42
1:Y:548:GLU:O	1:Y:552:VAL:HB	2.20	0.42
1:Y:592:THR:HG22	1:Y:593:ALA:N	2.34	0.42
1:Z:339:THR:HG22	1:Z:404:ARG:HG2	2.01	0.42
1:Z:496:ASN:HA	1:3:586:GLY:O	2.19	0.42
1:Z:555:GLU:OE1	1:Z:555:GLU:N	2.46	0.42
1:Z:640:LYS:HE3	1:Z:641:HIS:NE2	2.34	0.42
1:b:314:LYS:HB2	1:b:679:SER:HB3	2.00	0.42
1:b:421:HIS:HB2	1:b:637:PHE:CE1	2.54	0.42
1:b:716:THR:HG23	1:b:717:ASN:N	2.35	0.42
1:c:446:SER:OG	1:c:447:ARG:N	2.53	0.42
1:d:297:GLN:O	1:d:298:ARG:C	2.63	0.42
1:e:368:ASP:CG	1:e:369:VAL:H	2.27	0.42
1:e:484:ARG:HH11	1:e:574:GLU:C	2.26	0.42
1:f:592:THR:HG22	1:f:593:ALA:H	1.83	0.42
1:g:368:ASP:CG	1:g:369:VAL:H	2.27	0.42
1:g:473:GLN:O	1:g:475:ARG:HG3	2.20	0.42
1:g:611:VAL:O	1:g:727:GLY:HA2	2.19	0.42
1:h:484:ARG:HH11	1:h:574:GLU:C	2.26	0.42
1:i:473:GLN:O	1:i:475:ARG:HG3	2.20	0.42
1:j:421:HIS:HB2	1:j:637:PHE:CE1	2.54	0.42
1:j:548:GLU:O	1:j:552:VAL:HB	2.20	0.42
1:l:421:HIS:HB2	1:l:637:PHE:CE1	2.54	0.42
1:m:611:VAL:O	1:m:727:GLY:HA2	2.19	0.42
1:o:485:GLN:HB2	1:o:573:THR:HG22	2.02	0.42
1:o:552:VAL:CG2	1:o:556:LYS:HD2	2.49	0.42
1:o:692:LYS:HG2	1:p:398:PHE:CE1	2.54	0.42
1:p:433:LEU:HD13	1:p:433:LEU:O	2.19	0.42
1:p:509:HIS:HB3	1:p:514:ASP:OD1	2.19	0.42
1:p:611:VAL:O	1:p:727:GLY:HA2	2.19	0.42
1:q:470:ILE:C	1:q:472:ASP:N	2.76	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:485:GLN:HB2	1:q:573:THR:HG22	2.02	0.42
1:q:509:HIS:HB3	1:q:514:ASP:OD1	2.19	0.42
1:r:581:THR:OG1	1:r:592:THR:O	2.32	0.42
1:t:485:GLN:HB2	1:t:573:THR:HG22	2.02	0.42
1:t:714:VAL:HG21	1:t:718:GLY:HA2	2.01	0.42
1:u:473:GLN:O	1:u:475:ARG:HG3	2.20	0.42
1:u:502:TRP:CD1	1:u:502:TRP:H	2.36	0.42
1:v:581:THR:OG1	1:v:592:THR:O	2.32	0.42
1:w:339:THR:HG22	1:w:404:ARG:HG2	2.01	0.42
1:w:398:PHE:CE1	1:y:692:LYS:HG2	2.54	0.42
1:w:421:HIS:HB2	1:w:637:PHE:CE1	2.54	0.42
1:w:484:ARG:HH11	1:w:574:GLU:C	2.26	0.42
1:w:716:THR:HG23	1:w:717:ASN:N	2.35	0.42
1:x:446:SER:OG	1:x:447:ARG:N	2.52	0.42
1:y:485:GLN:HB2	1:y:573:THR:HG22	2.01	0.42
1:z:502:TRP:CD1	1:z:502:TRP:H	2.36	0.42
1:z:548:GLU:O	1:z:552:VAL:HB	2.20	0.42
1:z:592:THR:HG22	1:z:593:ALA:N	2.34	0.42
1:1:462:PHE:CD2	1:2:557:VAL:HG11	2.53	0.42
1:1:548:GLU:O	1:1:552:VAL:HB	2.20	0.42
1:1:552:VAL:CG2	1:1:556:LYS:HD2	2.49	0.42
1:2:297:GLN:O	1:2:298:ARG:C	2.63	0.42
1:2:421:HIS:HB2	1:2:637:PHE:CE1	2.54	0.42
1:2:592:THR:HG22	1:2:593:ALA:H	1.83	0.42
1:3:613:LEU:HD23	1:3:726:ILE:HB	1.99	0.42
1:3:620:LYS:HD3	1:3:642:PRO:CD	2.49	0.42
1:5:611:VAL:O	1:5:727:GLY:HA2	2.19	0.42
1:6:339:THR:HG22	1:6:404:ARG:HG2	2.01	0.42
1:7:339:THR:HG22	1:7:404:ARG:HG2	2.01	0.42
1:7:352:TYR:CZ	1:7:354:LEU:HD13	2.54	0.42
1:8:277:THR:CG2	1:8:375:TYR:HB3	2.49	0.42
1:8:314:LYS:HB2	1:8:679:SER:HB3	2.00	0.42
1:8:375:TYR:CG	1:8:376:GLY:N	2.86	0.42
1:A:368:ASP:CG	1:A:369:VAL:H	2.27	0.42
1:A:446:SER:OG	1:A:447:ARG:N	2.52	0.42
1:A:473:GLN:O	1:A:475:ARG:HG3	2.20	0.42
1:A:485:GLN:HB2	1:A:573:THR:HG22	2.02	0.42
1:A:716:THR:HG23	1:A:717:ASN:N	2.35	0.42
1:B:421:HIS:HB2	1:B:637:PHE:CE1	2.54	0.42
1:C:421:HIS:HB2	1:C:637:PHE:CE1	2.54	0.42
1:C:496:ASN:HA	1:M:586:GLY:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:640:LYS:HE3	1:C:641:HIS:NE2	2.34	0.42
1:D:473:GLN:O	1:D:475:ARG:HG3	2.20	0.42
1:D:496:ASN:HA	1:P:586:GLY:O	2.19	0.42
1:D:509:HIS:HB3	1:D:514:ASP:OD1	2.18	0.42
1:E:352:TYR:CZ	1:E:354:LEU:HD13	2.53	0.42
1:E:502:TRP:CD1	1:E:502:TRP:H	2.36	0.42
1:G:297:GLN:O	1:G:298:ARG:C	2.63	0.42
1:G:473:GLN:O	1:G:475:ARG:HG3	2.20	0.42
1:H:497:ASN:CB	1:H:498:SER:HA	2.45	0.42
1:I:592:THR:HG22	1:I:593:ALA:N	2.34	0.42
1:J:586:GLY:O	1:L:496:ASN:HA	2.19	0.42
1:K:314:LYS:HB2	1:K:679:SER:HB3	2.00	0.42
1:K:339:THR:HG22	1:K:404:ARG:HG2	2.01	0.42
1:M:433:LEU:HD13	1:M:433:LEU:O	2.19	0.42
1:N:548:GLU:O	1:N:552:VAL:HB	2.20	0.42
1:N:640:LYS:HE3	1:N:641:HIS:NE2	2.34	0.42
1:O:586:GLY:O	1:m:496:ASN:HA	2.19	0.42
1:O:620:LYS:HD3	1:O:642:PRO:CD	2.49	0.42
1:R:287:PHE:HE1	1:R:684:TRP:HH2	1.65	0.42
1:R:421:HIS:HB2	1:R:637:PHE:CE1	2.54	0.42
1:R:470:ILE:C	1:R:472:ASP:N	2.76	0.42
1:S:325:GLN:NE2	1:S:330:THR:HG22	2.34	0.42
1:S:586:GLY:O	1:U:496:ASN:HA	2.19	0.42
1:T:446:SER:OG	1:T:447:ARG:N	2.52	0.42
1:U:716:THR:HG23	1:U:717:ASN:N	2.35	0.42
1:V:325:GLN:NE2	1:V:330:THR:HG22	2.34	0.42
1:W:429:SER:OG	1:W:431:ASP:OD1	2.18	0.42
1:W:592:THR:HG22	1:W:593:ALA:N	2.34	0.42
1:Y:354:LEU:O	1:Y:356:SER:N	2.47	0.42
1:Y:716:THR:HG23	1:Y:717:ASN:N	2.35	0.42
1:a:548:GLU:O	1:a:552:VAL:HB	2.20	0.42
1:a:640:LYS:HE3	1:a:641:HIS:NE2	2.34	0.42
1:c:485:GLN:HB2	1:c:573:THR:HG22	2.02	0.42
1:d:421:HIS:HB2	1:d:637:PHE:CE1	2.54	0.42
1:f:421:HIS:HB2	1:f:637:PHE:CE1	2.54	0.42
1:g:277:THR:CG2	1:g:375:TYR:HB3	2.48	0.42
1:g:314:LYS:HB2	1:g:679:SER:HB3	2.00	0.42
1:h:433:LEU:HD13	1:h:433:LEU:O	2.19	0.42
1:h:592:THR:HG22	1:h:593:ALA:N	2.34	0.42
1:i:277:THR:CG2	1:i:375:TYR:HB3	2.48	0.42
1:i:314:LYS:HB2	1:i:679:SER:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:339:THR:HG22	1:i:404:ARG:HG2	2.01	0.42
1:k:473:GLN:O	1:k:475:ARG:HG3	2.20	0.42
1:l:297:GLN:O	1:l:298:ARG:C	2.63	0.42
1:m:497:ASN:CB	1:m:498:SER:HA	2.45	0.42
1:n:509:HIS:HB3	1:n:514:ASP:OD1	2.19	0.42
1:n:651:THR:HA	1:n:652:PRO:HD3	1.92	0.42
1:o:368:ASP:CG	1:o:369:VAL:H	2.27	0.42
1:o:473:GLN:O	1:o:475:ARG:HG3	2.20	0.42
1:o:592:THR:HG22	1:o:593:ALA:N	2.34	0.42
1:o:716:THR:HG23	1:o:717:ASN:N	2.35	0.42
1:p:473:GLN:O	1:p:475:ARG:HG3	2.20	0.42
1:q:592:THR:HG22	1:q:593:ALA:N	2.34	0.42
1:q:594:ASP:CG	1:q:595:VAL:N	2.73	0.42
1:r:548:GLU:O	1:r:552:VAL:HB	2.20	0.42
1:u:325:GLN:NE2	1:u:330:THR:HG22	2.34	0.42
1:v:620:LYS:HD3	1:v:642:PRO:CD	2.49	0.42
1:v:716:THR:HG23	1:v:717:ASN:N	2.35	0.42
1:w:368:ASP:CG	1:w:369:VAL:H	2.27	0.42
1:x:378:LEU:O	1:x:379:THR:OG1	2.26	0.42
1:y:344:THR:HB	1:y:646:ILE:HG22	2.00	0.42
1:z:297:GLN:O	1:z:298:ARG:C	2.63	0.42
1:z:611:VAL:O	1:z:727:GLY:HA2	2.19	0.42
1:1:446:SER:OG	1:1:447:ARG:N	2.52	0.42
1:1:502:TRP:CD1	1:1:502:TRP:H	2.36	0.42
1:2:497:ASN:CB	1:2:498:SER:HA	2.45	0.42
1:3:470:ILE:C	1:3:472:ASP:N	2.76	0.42
1:3:485:GLN:HB2	1:3:573:THR:HG22	2.02	0.42
1:5:402:MET:HE3	1:5:651:THR:HG21	2.00	0.42
1:5:716:THR:HG23	1:5:717:ASN:N	2.35	0.42
1:6:502:TRP:H	1:6:502:TRP:CD1	2.36	0.42
1:6:611:VAL:O	1:6:727:GLY:HA2	2.19	0.42
1:7:552:VAL:CG2	1:7:556:LYS:HD2	2.49	0.42
1:7:592:THR:HG22	1:7:593:ALA:H	1.83	0.42
1:A:466:GLY:N	1:A:473:GLN:HE22	2.16	0.42
1:A:714:VAL:HG21	1:A:718:GLY:HA2	2.01	0.42
1:B:398:PHE:CE1	1:L:692:LYS:HG2	2.54	0.42
1:C:398:PHE:CE1	1:M:692:LYS:HG2	2.54	0.42
1:C:620:LYS:HD3	1:C:642:PRO:CD	2.49	0.42
1:C:715:ASP:CG	1:C:716:THR:N	2.75	0.42
1:D:314:LYS:HB2	1:D:679:SER:HB3	2.00	0.42
1:D:714:VAL:HG21	1:D:718:GLY:HA2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:692:LYS:HG2	1:Q:398:PHE:CE1	2.54	0.42
1:F:339:THR:HG22	1:F:404:ARG:HG2	2.01	0.42
1:F:466:GLY:N	1:F:473:GLN:HE22	2.17	0.42
1:F:611:VAL:O	1:F:727:GLY:HA2	2.19	0.42
1:G:368:ASP:CG	1:G:369:VAL:H	2.27	0.42
1:I:485:GLN:HB2	1:I:573:THR:HG22	2.02	0.42
1:I:716:THR:HG23	1:I:717:ASN:N	2.35	0.42
1:J:287:PHE:HE2	1:J:611:VAL:HG11	1.85	0.42
1:K:244:THR:O	1:K:245:ARG:NH1	2.40	0.42
1:K:496:ASN:HA	1:8:586:GLY:O	2.19	0.42
1:K:548:GLU:O	1:K:552:VAL:HB	2.20	0.42
1:L:314:LYS:HB2	1:L:679:SER:HB3	2.00	0.42
1:L:640:LYS:HE3	1:L:641:HIS:NE2	2.34	0.42
1:M:714:VAL:HG21	1:M:718:GLY:HA2	2.01	0.42
1:N:352:TYR:CZ	1:N:354:LEU:HD13	2.54	0.42
1:N:466:GLY:N	1:N:473:GLN:HE22	2.17	0.42
1:O:548:GLU:O	1:O:552:VAL:HB	2.20	0.42
1:O:552:VAL:CG2	1:O:556:LYS:HD2	2.49	0.42
1:O:581:THR:OG1	1:O:592:THR:O	2.32	0.42
1:P:314:LYS:HB2	1:P:679:SER:HB3	2.00	0.42
1:P:375:TYR:CG	1:P:376:GLY:N	2.86	0.42
1:P:433:LEU:HD13	1:P:433:LEU:O	2.19	0.42
1:Q:300:ILE:HD11	1:Q:728:THR:HA	2.02	0.42
1:Q:402:MET:HE3	1:Q:651:THR:HG21	2.00	0.42
1:T:287:PHE:HE2	1:T:611:VAL:HG11	1.85	0.42
1:T:421:HIS:HB2	1:T:637:PHE:CE1	2.54	0.42
1:T:716:THR:HG23	1:T:717:ASN:N	2.35	0.42
1:V:485:GLN:HB2	1:V:573:THR:HG22	2.02	0.42
1:V:586:GLY:O	1:e:496:ASN:HA	2.19	0.42
1:W:297:GLN:O	1:W:298:ARG:C	2.63	0.42
1:Z:466:GLY:N	1:Z:473:GLN:HE22	2.17	0.42
1:Z:497:ASN:CB	1:Z:498:SER:HA	2.45	0.42
1:Z:548:GLU:O	1:Z:552:VAL:HB	2.20	0.42
1:a:352:TYR:CZ	1:a:354:LEU:HD13	2.54	0.42
1:a:466:GLY:N	1:a:473:GLN:HE22	2.17	0.42
1:b:715:ASP:CG	1:b:716:THR:N	2.75	0.42
1:c:462:PHE:CD2	1:o:557:VAL:HG11	2.54	0.42
1:c:548:GLU:O	1:c:552:VAL:HB	2.20	0.42
1:c:716:THR:HG23	1:c:717:ASN:N	2.35	0.42
1:d:339:THR:HG22	1:d:404:ARG:HG2	2.01	0.42
1:d:473:GLN:O	1:d:475:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:497:ASN:CB	1:d:498:SER:HA	2.45	0.42
1:e:339:THR:HG22	1:e:404:ARG:HG2	2.01	0.42
1:e:640:LYS:HE3	1:e:641:HIS:NE2	2.34	0.42
1:g:297:GLN:O	1:g:298:ARG:C	2.63	0.42
1:g:339:THR:HG22	1:g:404:ARG:HG2	2.01	0.42
1:h:640:LYS:HE3	1:h:641:HIS:NE2	2.34	0.42
1:i:297:GLN:O	1:i:298:ARG:C	2.63	0.42
1:i:548:GLU:O	1:i:552:VAL:HB	2.20	0.42
1:j:716:THR:HG23	1:j:717:ASN:N	2.35	0.42
1:l:611:VAL:O	1:l:727:GLY:HA2	2.19	0.42
1:m:421:HIS:HB2	1:m:637:PHE:CE1	2.54	0.42
1:m:548:GLU:O	1:m:552:VAL:HB	2.20	0.42
1:n:297:GLN:O	1:n:298:ARG:C	2.63	0.42
1:n:433:LEU:HD13	1:n:433:LEU:O	2.19	0.42
1:n:502:TRP:CD1	1:n:502:TRP:H	2.36	0.42
1:n:548:GLU:O	1:n:552:VAL:HB	2.20	0.42
1:o:339:THR:HG22	1:o:404:ARG:HG2	2.01	0.42
1:o:466:GLY:N	1:o:473:GLN:HE22	2.17	0.42
1:o:548:GLU:O	1:o:552:VAL:HB	2.20	0.42
1:p:297:GLN:O	1:p:298:ARG:C	2.63	0.42
1:p:592:THR:HG22	1:p:593:ALA:H	1.83	0.42
1:r:716:THR:HG23	1:r:717:ASN:N	2.35	0.42
1:s:473:GLN:O	1:s:475:ARG:HG3	2.20	0.42
1:s:485:GLN:HB2	1:s:573:THR:HG22	2.02	0.42
1:s:497:ASN:CB	1:s:498:SER:HA	2.45	0.42
1:s:714:VAL:HG21	1:s:718:GLY:HA2	2.01	0.42
1:t:692:LYS:HG2	1:u:398:PHE:CE1	2.54	0.42
1:u:297:GLN:O	1:u:298:ARG:C	2.63	0.42
1:u:497:ASN:CB	1:u:498:SER:HA	2.45	0.42
1:u:692:LYS:HG2	1:v:398:PHE:CE1	2.53	0.42
1:v:449:ASN:O	1:v:450:THR:OG1	2.20	0.42
1:w:287:PHE:HE2	1:w:611:VAL:HG11	1.85	0.42
1:w:496:ASN:HA	1:y:586:GLY:O	2.19	0.42
1:w:548:GLU:O	1:w:552:VAL:HB	2.20	0.42
1:w:640:LYS:HE3	1:w:641:HIS:NE2	2.34	0.42
1:x:620:LYS:HD3	1:x:642:PRO:CD	2.49	0.42
1:y:287:PHE:HE2	1:y:611:VAL:HG11	1.85	0.42
1:y:325:GLN:NE2	1:y:330:THR:HG22	2.34	0.42
1:1:716:THR:HG23	1:1:717:ASN:N	2.35	0.42
1:2:339:THR:HG22	1:2:404:ARG:HG2	2.01	0.42
1:2:620:LYS:HD3	1:2:642:PRO:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:502:TRP:CD1	1:3:502:TRP:H	2.36	0.42
1:4:297:GLN:O	1:4:298:ARG:C	2.63	0.42
1:4:368:ASP:CG	1:4:369:VAL:H	2.27	0.42
1:5:277:THR:CG2	1:5:375:TYR:HB3	2.48	0.42
1:5:548:GLU:O	1:5:552:VAL:HB	2.20	0.42
1:6:429:SER:OG	1:6:431:ASP:OD1	2.18	0.42
1:6:716:THR:HG23	1:6:717:ASN:N	2.35	0.42
1:7:446:SER:OG	1:7:447:ARG:N	2.52	0.42
1:7:545:GLN:HA	1:7:546:GLY:HA2	1.77	0.42
1:7:620:LYS:HD3	1:7:642:PRO:CD	2.49	0.42
1:7:714:VAL:HG21	1:7:718:GLY:HA2	2.01	0.42
1:A:496:ASN:HB2	1:A:498:SER:HB2	2.02	0.42
1:B:433:LEU:HD13	1:B:433:LEU:O	2.19	0.42
1:C:339:THR:HG22	1:C:404:ARG:HG2	2.01	0.42
1:D:716:THR:HG23	1:D:717:ASN:N	2.35	0.42
1:E:245:ARG:HE	1:E:363:PRO:HG2	1.85	0.42
1:E:297:GLN:O	1:E:298:ARG:C	2.63	0.42
1:E:446:SER:OG	1:E:447:ARG:N	2.52	0.42
1:E:485:GLN:HB2	1:E:573:THR:HG22	2.02	0.42
1:E:620:LYS:HD3	1:E:642:PRO:CD	2.49	0.42
1:E:714:VAL:HG21	1:E:718:GLY:HA2	2.01	0.42
1:F:620:LYS:HD3	1:F:642:PRO:CD	2.49	0.42
1:F:716:THR:HG23	1:F:717:ASN:N	2.35	0.42
1:H:473:GLN:O	1:H:475:ARG:HG3	2.20	0.42
1:H:548:GLU:O	1:H:552:VAL:HB	2.20	0.42
1:I:548:GLU:O	1:I:552:VAL:HB	2.20	0.42
1:I:620:LYS:HD3	1:I:642:PRO:CD	2.49	0.42
1:J:433:LEU:HD13	1:J:433:LEU:O	2.19	0.42
1:J:714:VAL:HG21	1:J:718:GLY:HA2	2.01	0.42
1:K:473:GLN:O	1:K:475:ARG:HG3	2.20	0.42
1:K:509:HIS:HB3	1:K:514:ASP:OD1	2.19	0.42
1:K:716:THR:HG23	1:K:717:ASN:N	2.35	0.42
1:L:452:SER:HA	1:L:457:GLN:CD	2.45	0.42
1:M:287:PHE:HE2	1:M:611:VAL:HG11	1.85	0.42
1:M:297:GLN:O	1:M:298:ARG:C	2.63	0.42
1:N:300:ILE:HD11	1:N:728:THR:HA	2.02	0.42
1:N:375:TYR:CG	1:N:376:GLY:N	2.86	0.42
1:N:433:LEU:HD13	1:N:433:LEU:O	2.19	0.42
1:O:300:ILE:HD11	1:O:728:THR:HA	2.02	0.42
1:O:344:THR:HB	1:O:646:ILE:HG22	2.00	0.42
1:O:485:GLN:HB2	1:O:573:THR:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:297:GLN:O	1:P:298:ARG:C	2.63	0.42
1:P:485:GLN:HB2	1:P:573:THR:HG22	2.02	0.42
1:Q:277:THR:CG2	1:Q:375:TYR:HB3	2.48	0.42
1:Q:452:SER:HA	1:Q:457:GLN:CD	2.45	0.42
1:Q:548:GLU:O	1:Q:552:VAL:HB	2.20	0.42
1:R:300:ILE:HD11	1:R:728:THR:HA	2.02	0.42
1:R:692:LYS:HG2	1:S:398:PHE:CE1	2.54	0.42
1:S:297:GLN:O	1:S:298:ARG:C	2.63	0.42
1:S:692:LYS:HG2	1:U:398:PHE:CE1	2.54	0.42
1:T:378:LEU:HA	1:T:378:LEU:HD23	1.75	0.42
1:T:586:GLY:O	1:d:496:ASN:HA	2.20	0.42
1:V:344:THR:HB	1:V:646:ILE:HG22	2.00	0.42
1:V:452:SER:HA	1:V:457:GLN:CD	2.45	0.42
1:V:496:ASN:HB2	1:V:498:SER:HB2	2.02	0.42
1:V:716:THR:HG23	1:V:717:ASN:N	2.35	0.42
1:W:473:GLN:O	1:W:475:ARG:HG3	2.20	0.42
1:W:509:HIS:HB3	1:W:514:ASP:OD1	2.19	0.42
1:X:297:GLN:O	1:X:298:ARG:C	2.63	0.42
1:X:421:HIS:HB2	1:X:637:PHE:CE1	2.54	0.42
1:X:548:GLU:O	1:X:552:VAL:HB	2.20	0.42
1:X:620:LYS:HD3	1:X:642:PRO:CD	2.49	0.42
1:X:716:THR:HG23	1:X:717:ASN:N	2.35	0.42
1:Y:496:ASN:HB2	1:Y:498:SER:HB2	2.02	0.42
1:Z:421:HIS:HB2	1:Z:637:PHE:CE1	2.54	0.42
1:a:300:ILE:HD11	1:a:728:THR:HA	2.02	0.42
1:a:433:LEU:HD13	1:a:433:LEU:O	2.19	0.42
1:b:446:SER:OG	1:b:447:ARG:N	2.52	0.42
1:b:497:ASN:CB	1:b:498:SER:HA	2.45	0.42
1:c:592:THR:HG22	1:c:593:ALA:N	2.34	0.42
1:c:620:LYS:HD3	1:c:642:PRO:CD	2.49	0.42
1:d:277:THR:CG2	1:d:375:TYR:HB3	2.48	0.42
1:d:347:GLU:OE1	1:d:347:GLU:N	2.41	0.42
1:e:548:GLU:O	1:e:552:VAL:HB	2.20	0.42
1:f:339:THR:HG22	1:f:404:ARG:HG2	2.01	0.42
1:f:446:SER:OG	1:f:447:ARG:N	2.52	0.42
1:g:714:VAL:HG21	1:g:718:GLY:HA2	2.01	0.42
1:h:473:GLN:O	1:h:475:ARG:HG3	2.20	0.42
1:i:368:ASP:CG	1:i:369:VAL:H	2.27	0.42
1:i:716:THR:HG23	1:i:717:ASN:N	2.35	0.42
1:j:297:GLN:O	1:j:298:ARG:C	2.63	0.42
1:l:466:GLY:N	1:l:473:GLN:HE22	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:473:GLN:O	1:l:475:ARG:HG3	2.20	0.42
1:n:287:PHE:HE1	1:n:684:TRP:HH2	1.65	0.42
1:n:339:THR:HG22	1:n:404:ARG:HG2	2.01	0.42
1:n:368:ASP:CG	1:n:369:VAL:H	2.27	0.42
1:o:314:LYS:HE3	1:o:314:LYS:HB3	1.85	0.42
1:o:446:SER:OG	1:o:447:ARG:N	2.52	0.42
1:p:485:GLN:HB2	1:p:573:THR:HG22	2.02	0.42
1:p:592:THR:HG22	1:p:593:ALA:N	2.34	0.42
1:q:297:GLN:O	1:q:298:ARG:C	2.63	0.42
1:q:354:LEU:O	1:q:356:SER:N	2.47	0.42
1:q:548:GLU:O	1:q:552:VAL:HB	2.20	0.42
1:s:325:GLN:NE2	1:s:330:THR:HG22	2.34	0.42
1:s:548:GLU:O	1:s:552:VAL:HB	2.20	0.42
1:t:297:GLN:O	1:t:298:ARG:C	2.63	0.42
1:t:300:ILE:HD11	1:t:728:THR:HA	2.02	0.42
1:t:421:HIS:HB2	1:t:637:PHE:CE1	2.54	0.42
1:x:421:HIS:HB2	1:x:637:PHE:CE1	2.54	0.42
1:x:716:THR:HG23	1:x:717:ASN:N	2.35	0.42
1:y:497:ASN:CB	1:y:498:SER:HA	2.45	0.42
1:y:620:LYS:HD3	1:y:642:PRO:CD	2.49	0.42
1:z:354:LEU:O	1:z:356:SER:N	2.47	0.42
1:z:473:GLN:O	1:z:475:ARG:HG3	2.20	0.42
1:1:421:HIS:HB2	1:1:637:PHE:CE1	2.54	0.42
1:2:277:THR:CG2	1:2:375:TYR:HB3	2.49	0.42
1:2:347:GLU:OE1	1:2:347:GLU:N	2.41	0.42
1:2:473:GLN:O	1:2:475:ARG:HG3	2.20	0.42
1:3:300:ILE:HD11	1:3:728:THR:HA	2.02	0.42
1:3:548:GLU:O	1:3:552:VAL:HB	2.20	0.42
1:3:552:VAL:CG2	1:3:556:LYS:HD2	2.49	0.42
1:4:339:THR:HG22	1:4:404:ARG:HG2	2.01	0.42
1:4:433:LEU:HD13	1:4:433:LEU:O	2.19	0.42
1:4:502:TRP:CD1	1:4:502:TRP:H	2.36	0.42
1:4:548:GLU:O	1:4:552:VAL:HB	2.20	0.42
1:5:300:ILE:HD11	1:5:728:THR:HA	2.02	0.42
1:5:398:PHE:CE1	1:7:692:LYS:HG2	2.54	0.42
1:6:466:GLY:N	1:6:473:GLN:HE22	2.17	0.42
1:6:620:LYS:HD3	1:6:642:PRO:CD	2.49	0.42
1:7:485:GLN:HB2	1:7:573:THR:HG22	2.02	0.42
1:7:502:TRP:CD1	1:7:502:TRP:H	2.36	0.42
1:8:287:PHE:HE2	1:8:611:VAL:HG11	1.85	0.42
1:8:297:GLN:O	1:8:298:ARG:C	2.63	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:PHE:HE2	1:A:611:VAL:HG11	1.85	0.42
1:A:314:LYS:HE3	1:A:314:LYS:HB3	1.85	0.42
1:A:339:THR:HG22	1:A:404:ARG:HG2	2.01	0.42
1:A:548:GLU:O	1:A:552:VAL:HB	2.20	0.42
1:B:297:GLN:O	1:B:298:ARG:C	2.63	0.42
1:B:446:SER:OG	1:B:447:ARG:N	2.52	0.42
1:B:545:GLN:HA	1:B:546:GLY:HA2	1.77	0.42
1:B:620:LYS:HD3	1:B:642:PRO:CD	2.49	0.42
1:C:473:GLN:O	1:C:475:ARG:HG3	2.20	0.42
1:C:485:GLN:HB2	1:C:573:THR:HG22	2.02	0.42
1:D:352:TYR:CZ	1:D:354:LEU:HD13	2.54	0.42
1:D:548:GLU:O	1:D:552:VAL:HB	2.20	0.42
1:F:433:LEU:HD13	1:F:433:LEU:O	2.19	0.42
1:F:658:SER:O	1:F:659:THR:OG1	2.27	0.42
1:G:300:ILE:HD11	1:G:728:THR:HA	2.02	0.42
1:G:592:THR:HG22	1:G:593:ALA:N	2.34	0.42
1:H:300:ILE:HD11	1:H:728:THR:HA	2.02	0.42
1:H:485:GLN:HB2	1:H:573:THR:HG22	2.02	0.42
1:J:297:GLN:O	1:J:298:ARG:C	2.63	0.42
1:J:548:GLU:O	1:J:552:VAL:HB	2.20	0.42
1:K:714:VAL:HG21	1:K:718:GLY:HA2	2.01	0.42
1:L:620:LYS:HD3	1:L:642:PRO:CD	2.49	0.42
1:M:548:GLU:O	1:M:552:VAL:HB	2.20	0.42
1:O:244:THR:O	1:O:245:ARG:NH1	2.40	0.42
1:O:452:SER:HA	1:O:457:GLN:CD	2.45	0.42
1:P:496:ASN:HB2	1:P:498:SER:HB2	2.02	0.42
1:R:297:GLN:O	1:R:298:ARG:C	2.63	0.42
1:R:339:THR:HG22	1:R:404:ARG:HG2	2.01	0.42
1:T:496:ASN:HB2	1:T:498:SER:HB2	2.02	0.42
1:U:287:PHE:HE2	1:U:611:VAL:HG11	1.85	0.42
1:U:452:SER:HA	1:U:457:GLN:CD	2.45	0.42
1:V:287:PHE:HE2	1:V:611:VAL:HG11	1.85	0.42
1:V:497:ASN:CB	1:V:498:SER:HA	2.45	0.42
1:V:620:LYS:HD3	1:V:642:PRO:CD	2.49	0.42
1:W:496:ASN:HB2	1:W:498:SER:HB2	2.02	0.42
1:W:548:GLU:O	1:W:552:VAL:HB	2.20	0.42
1:W:594:ASP:CG	1:W:595:VAL:N	2.73	0.42
1:X:339:THR:HG22	1:X:404:ARG:HG2	2.01	0.42
1:Y:308:PRO:HA	1:Y:684:TRP:HA	2.02	0.42
1:Y:473:GLN:O	1:Y:475:ARG:HG3	2.20	0.42
1:Y:581:THR:OG1	1:Y:592:THR:O	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:496:ASN:HB2	1:Z:498:SER:HB2	2.02	0.42
1:b:297:GLN:O	1:b:298:ARG:C	2.63	0.42
1:b:433:LEU:HD13	1:b:433:LEU:O	2.19	0.42
1:d:620:LYS:HD3	1:d:642:PRO:CD	2.49	0.42
1:e:287:PHE:HE2	1:e:611:VAL:HG11	1.85	0.42
1:g:548:GLU:O	1:g:552:VAL:HB	2.20	0.42
1:h:344:THR:HB	1:h:646:ILE:HG22	2.00	0.42
1:i:714:VAL:HG21	1:i:718:GLY:HA2	2.01	0.42
1:j:245:ARG:HE	1:j:363:PRO:HG2	1.85	0.42
1:j:339:THR:HG22	1:j:404:ARG:HG2	2.01	0.42
1:j:446:SER:OG	1:j:447:ARG:N	2.53	0.42
1:j:592:THR:HG22	1:j:593:ALA:H	1.83	0.42
1:l:485:GLN:HB2	1:l:573:THR:HG22	2.02	0.42
1:l:552:VAL:CG2	1:l:556:LYS:HD2	2.49	0.42
1:m:446:SER:OG	1:m:447:ARG:N	2.52	0.42
1:m:555:GLU:OE1	1:m:555:GLU:N	2.46	0.42
1:o:496:ASN:HB2	1:o:498:SER:HB2	2.02	0.42
1:o:714:VAL:HG21	1:o:718:GLY:HA2	2.01	0.42
1:p:300:ILE:HD11	1:p:728:THR:HA	2.02	0.42
1:p:368:ASP:CG	1:p:369:VAL:H	2.27	0.42
1:q:496:ASN:HB2	1:q:498:SER:HB2	2.02	0.42
1:r:496:ASN:HB2	1:r:498:SER:HB2	2.02	0.42
1:s:300:ILE:HD11	1:s:728:THR:HA	2.02	0.42
1:t:325:GLN:NE2	1:t:330:THR:HG22	2.34	0.42
1:t:339:THR:HG22	1:t:404:ARG:HG2	2.01	0.42
1:x:297:GLN:O	1:x:298:ARG:C	2.63	0.42
1:x:339:THR:HG22	1:x:404:ARG:HG2	2.01	0.42
1:x:548:GLU:O	1:x:552:VAL:HB	2.20	0.42
1:y:452:SER:HA	1:y:457:GLN:CD	2.45	0.42
1:y:496:ASN:HB2	1:y:498:SER:HB2	2.02	0.42
1:y:716:THR:HG23	1:y:717:ASN:N	2.35	0.42
1:z:466:GLY:N	1:z:473:GLN:HE22	2.16	0.42
1:z:485:GLN:HB2	1:z:573:THR:HG22	2.02	0.42
1:3:344:THR:HB	1:3:646:ILE:HG22	2.00	0.42
1:3:452:SER:HA	1:3:457:GLN:CD	2.45	0.42
1:3:581:THR:OG1	1:3:592:THR:O	2.32	0.42
1:4:287:PHE:HE1	1:4:684:TRP:HH2	1.66	0.42
1:5:287:PHE:HE2	1:5:611:VAL:HG11	1.85	0.42
1:6:586:GLY:O	1:7:496:ASN:HA	2.19	0.42
1:7:297:GLN:O	1:7:298:ARG:C	2.63	0.42
1:8:433:LEU:HD13	1:8:433:LEU:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:473:GLN:O	1:8:475:ARG:HG3	2.20	0.42
1:8:485:GLN:HB2	1:8:573:THR:HG22	2.02	0.42
1:8:496:ASN:HB2	1:8:498:SER:HB2	2.02	0.42
1:C:452:SER:HA	1:C:457:GLN:CD	2.45	0.42
1:D:368:ASP:CG	1:D:369:VAL:H	2.27	0.42
1:D:378:LEU:HD23	1:D:378:LEU:HA	1.75	0.42
1:E:601:LEU:O	1:E:604:MET:HG2	2.20	0.42
1:E:621:ILE:HG22	1:F:477:TRP:CH2	2.54	0.42
1:F:429:SER:OG	1:F:431:ASP:OD1	2.18	0.42
1:G:325:GLN:NE2	1:G:330:THR:HG22	2.34	0.42
1:G:470:ILE:C	1:G:472:ASP:N	2.76	0.42
1:G:485:GLN:HB2	1:G:573:THR:HG22	2.02	0.42
1:G:592:THR:HG22	1:G:593:ALA:H	1.83	0.42
1:G:716:THR:HG23	1:G:717:ASN:N	2.35	0.42
1:H:325:GLN:NE2	1:H:330:THR:HG22	2.34	0.42
1:H:368:ASP:OD2	1:I:665:LYS:HB3	2.20	0.42
1:H:716:THR:HG23	1:H:717:ASN:N	2.35	0.42
1:I:378:LEU:HD23	1:I:378:LEU:HA	1.75	0.42
1:J:452:SER:HA	1:J:457:GLN:CD	2.45	0.42
1:J:715:ASP:CG	1:J:716:THR:N	2.75	0.42
1:K:545:GLN:HA	1:K:546:GLY:HA2	1.77	0.42
1:L:339:THR:HG22	1:L:404:ARG:HG2	2.01	0.42
1:L:485:GLN:HB2	1:L:573:THR:HG22	2.02	0.42
1:M:287:PHE:HE1	1:M:684:TRP:HH2	1.66	0.42
1:M:452:SER:HA	1:M:457:GLN:CD	2.45	0.42
1:M:715:ASP:CG	1:M:716:THR:N	2.75	0.42
1:O:458:SER:OG	1:m:492:SER:OG	2.31	0.42
1:P:287:PHE:HE2	1:P:611:VAL:HG11	1.85	0.42
1:P:378:LEU:HA	1:P:378:LEU:HD23	1.75	0.42
1:P:545:GLN:HA	1:P:546:GLY:HA2	1.77	0.42
1:P:620:LYS:HD3	1:P:642:PRO:CD	2.49	0.42
1:R:325:GLN:NE2	1:R:330:THR:HG22	2.34	0.42
1:S:497:ASN:CB	1:S:498:SER:HA	2.45	0.42
1:T:714:VAL:HG21	1:T:718:GLY:HA2	2.01	0.42
1:U:314:LYS:HB3	1:U:314:LYS:HE3	1.85	0.42
1:V:496:ASN:HA	1:X:586:GLY:O	2.19	0.42
1:W:352:TYR:CZ	1:W:354:LEU:HD13	2.54	0.42
1:W:354:LEU:O	1:W:356:SER:N	2.47	0.42
1:X:287:PHE:HE2	1:X:611:VAL:HG11	1.85	0.42
1:Y:452:SER:HA	1:Y:457:GLN:CD	2.45	0.42
1:Z:473:GLN:O	1:Z:475:ARG:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:375:TYR:CG	1:a:376:GLY:N	2.86	0.42
1:c:287:PHE:HE2	1:c:611:VAL:HG11	1.85	0.42
1:c:388:GLY:O	1:c:389:ARG:HB2	2.20	0.42
1:d:325:GLN:NE2	1:d:330:THR:HG22	2.34	0.42
1:d:716:THR:HG23	1:d:717:ASN:N	2.35	0.42
1:e:378:LEU:O	1:e:379:THR:OG1	2.26	0.42
1:f:297:GLN:O	1:f:298:ARG:C	2.63	0.42
1:f:308:PRO:HA	1:f:684:TRP:HA	2.02	0.42
1:f:466:GLY:N	1:f:473:GLN:HE22	2.16	0.42
1:f:611:VAL:O	1:f:727:GLY:HA2	2.19	0.42
1:g:402:MET:HE3	1:g:651:THR:HG21	2.00	0.42
1:g:640:LYS:HE3	1:g:641:HIS:NE2	2.34	0.42
1:g:716:THR:HG23	1:g:717:ASN:N	2.35	0.42
1:h:245:ARG:HE	1:h:363:PRO:HG2	1.85	0.42
1:i:402:MET:HE3	1:i:651:THR:HG21	2.00	0.42
1:i:452:SER:HA	1:i:457:GLN:CD	2.45	0.42
1:i:640:LYS:HE3	1:i:641:HIS:NE2	2.34	0.42
1:j:308:PRO:HA	1:j:684:TRP:HA	2.02	0.42
1:j:466:GLY:N	1:j:473:GLN:HE22	2.17	0.42
1:j:555:GLU:OE1	1:j:555:GLU:N	2.46	0.42
1:k:245:ARG:HE	1:k:363:PRO:HG2	1.85	0.42
1:k:344:THR:HB	1:k:646:ILE:HG22	2.00	0.42
1:k:640:LYS:HE3	1:k:641:HIS:NE2	2.34	0.42
1:l:452:SER:HA	1:l:457:GLN:CD	2.45	0.42
1:m:244:THR:O	1:m:245:ARG:NH1	2.40	0.42
1:m:473:GLN:O	1:m:475:ARG:HG3	2.20	0.42
1:m:496:ASN:HB2	1:m:498:SER:HB2	2.02	0.42
1:m:716:THR:HG23	1:m:717:ASN:N	2.35	0.42
1:n:452:SER:HA	1:n:457:GLN:CD	2.45	0.42
1:n:485:GLN:HB2	1:n:573:THR:HG22	2.02	0.42
1:n:496:ASN:HB2	1:n:498:SER:HB2	2.02	0.42
1:o:598:GLN:HE22	1:p:483:TYR:HE1	1.66	0.42
1:p:325:GLN:NE2	1:p:330:THR:HG22	2.34	0.42
1:p:470:ILE:C	1:p:472:ASP:N	2.76	0.42
1:p:716:THR:HG23	1:p:717:ASN:N	2.35	0.42
1:q:473:GLN:O	1:q:475:ARG:HG3	2.20	0.42
1:r:308:PRO:HA	1:r:684:TRP:HA	2.02	0.42
1:r:378:LEU:O	1:r:379:THR:OG1	2.26	0.42
1:r:452:SER:HA	1:r:457:GLN:CD	2.45	0.42
1:r:473:GLN:O	1:r:475:ARG:HG3	2.20	0.42
1:s:716:THR:HG23	1:s:717:ASN:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:715:ASP:CG	1:t:716:THR:N	2.75	0.42
1:v:287:PHE:HE2	1:v:611:VAL:HG11	1.85	0.42
1:v:452:SER:HA	1:v:457:GLN:CD	2.45	0.42
1:w:586:GLY:O	1:x:496:ASN:HA	2.19	0.42
1:x:287:PHE:HE2	1:x:611:VAL:HG11	1.85	0.42
1:x:586:GLY:O	1:y:496:ASN:HA	2.19	0.42
1:y:277:THR:CG2	1:y:375:TYR:HB3	2.48	0.42
1:y:388:GLY:O	1:y:389:ARG:HB2	2.20	0.42
1:y:581:THR:OG1	1:y:592:THR:O	2.32	0.42
1:z:552:VAL:CG2	1:z:556:LYS:HD2	2.49	0.42
1:1:496:ASN:HB2	1:1:498:SER:HB2	2.02	0.42
1:2:375:TYR:CG	1:2:376:GLY:N	2.86	0.42
1:2:452:SER:HA	1:2:457:GLN:CD	2.45	0.42
1:3:433:LEU:HD13	1:3:433:LEU:O	2.19	0.42
1:4:388:GLY:O	1:4:389:ARG:HB2	2.20	0.42
1:4:452:SER:HA	1:4:457:GLN:CD	2.45	0.42
1:4:608:ASP:HB3	1:4:609:ARG:H	1.53	0.42
1:5:452:SER:HA	1:5:457:GLN:CD	2.45	0.42
1:7:245:ARG:HE	1:7:363:PRO:HG2	1.85	0.42
1:7:473:GLN:O	1:7:475:ARG:HG3	2.20	0.42
1:7:608:ASP:HB3	1:7:609:ARG:H	1.53	0.42
1:8:620:LYS:HD3	1:8:642:PRO:CD	2.49	0.42
1:A:325:GLN:NE2	1:A:330:THR:HG22	2.34	0.42
1:A:496:ASN:HA	1:I:586:GLY:O	2.20	0.42
1:A:601:LEU:O	1:A:604:MET:HG2	2.20	0.42
1:B:388:GLY:O	1:B:389:ARG:HB2	2.20	0.42
1:B:496:ASN:HA	1:L:586:GLY:O	2.19	0.42
1:B:497:ASN:CB	1:B:498:SER:HA	2.45	0.42
1:B:586:GLY:O	1:J:496:ASN:HA	2.19	0.42
1:D:297:GLN:O	1:D:298:ARG:C	2.63	0.42
1:E:342:VAL:HG13	1:E:343:PHE:N	2.31	0.42
1:E:473:GLN:O	1:E:475:ARG:HG3	2.20	0.42
1:E:548:GLU:O	1:E:552:VAL:HB	2.20	0.42
1:F:452:SER:HA	1:F:457:GLN:CD	2.45	0.42
1:G:608:ASP:HB3	1:G:609:ARG:H	1.53	0.42
1:H:496:ASN:HA	1:Y:586:GLY:O	2.19	0.42
1:I:287:PHE:HE2	1:I:611:VAL:HG11	1.85	0.42
1:I:388:GLY:O	1:I:389:ARG:HB2	2.20	0.42
1:K:352:TYR:CZ	1:K:354:LEU:HD13	2.54	0.42
1:L:473:GLN:O	1:L:475:ARG:HG3	2.20	0.42
1:L:715:ASP:CG	1:L:716:THR:N	2.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:308:PRO:HA	1:M:684:TRP:HA	2.02	0.42
1:M:496:ASN:HA	1:b:586:GLY:O	2.19	0.42
1:M:581:THR:OG1	1:M:592:THR:O	2.32	0.42
1:N:452:SER:HA	1:N:457:GLN:CD	2.45	0.42
1:O:433:LEU:HD13	1:O:433:LEU:O	2.19	0.42
1:P:446:SER:OG	1:P:447:ARG:N	2.52	0.42
1:P:548:GLU:O	1:P:552:VAL:HB	2.20	0.42
1:Q:287:PHE:HE2	1:Q:611:VAL:HG11	1.85	0.42
1:Q:446:SER:OG	1:Q:447:ARG:N	2.52	0.42
1:Q:473:GLN:O	1:Q:475:ARG:HG3	2.20	0.42
1:S:245:ARG:HE	1:S:363:PRO:HG2	1.85	0.42
1:S:300:ILE:HD11	1:S:728:THR:HA	2.02	0.42
1:S:365:PHE:HA	1:S:366:PRO:HD3	1.91	0.42
1:S:466:GLY:N	1:S:473:GLN:HE22	2.17	0.42
1:T:354:LEU:O	1:T:356:SER:N	2.47	0.42
1:T:496:ASN:HA	1:l:586:GLY:O	2.20	0.42
1:T:608:ASP:HB3	1:T:609:ARG:H	1.53	0.42
1:T:692:LYS:HG2	1:d:398:PHE:CE1	2.54	0.42
1:V:277:THR:CG2	1:V:375:TYR:HB3	2.48	0.42
1:V:300:ILE:HD11	1:V:728:THR:HA	2.02	0.42
1:V:388:GLY:O	1:V:389:ARG:HB2	2.20	0.42
1:W:388:GLY:O	1:W:389:ARG:HB2	2.20	0.42
1:Z:388:GLY:O	1:Z:389:ARG:HB2	2.20	0.42
1:Z:716:THR:HG23	1:Z:717:ASN:N	2.35	0.42
1:a:452:SER:HA	1:a:457:GLN:CD	2.45	0.42
1:b:388:GLY:O	1:b:389:ARG:HB2	2.20	0.42
1:b:620:LYS:HD3	1:b:642:PRO:CD	2.49	0.42
1:b:645:GLN:C	1:b:646:ILE:HG13	2.45	0.42
1:b:651:THR:HA	1:b:652:PRO:HD3	1.92	0.42
1:c:244:THR:O	1:c:245:ARG:NH1	2.40	0.42
1:d:375:TYR:CG	1:d:376:GLY:N	2.86	0.42
1:d:692:LYS:HG2	1:l:398:PHE:CE1	2.54	0.42
1:e:485:GLN:HB2	1:e:573:THR:HG22	2.02	0.42
1:f:245:ARG:HE	1:f:363:PRO:HG2	1.85	0.42
1:f:388:GLY:O	1:f:389:ARG:HB2	2.20	0.42
1:g:452:SER:HA	1:g:457:GLN:CD	2.45	0.42
1:h:427:SER:HB3	1:h:734:ASN:HA	2.02	0.42
1:h:446:SER:OG	1:h:447:ARG:N	2.52	0.42
1:h:714:VAL:HG21	1:h:718:GLY:HA2	2.01	0.42
1:i:314:LYS:HE3	1:i:314:LYS:HB3	1.85	0.42
1:j:388:GLY:O	1:j:389:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:427:SER:HB3	1:k:734:ASN:HA	2.02	0.42
1:k:446:SER:OG	1:k:447:ARG:N	2.52	0.42
1:k:452:SER:HA	1:k:457:GLN:CD	2.45	0.42
1:l:388:GLY:O	1:l:389:ARG:HB2	2.20	0.42
1:n:300:ILE:HD11	1:n:728:THR:HA	2.02	0.42
1:n:388:GLY:O	1:n:389:ARG:HB2	2.20	0.42
1:n:645:GLN:C	1:n:646:ILE:HG13	2.45	0.42
1:o:325:GLN:NE2	1:o:330:THR:HG22	2.34	0.42
1:q:388:GLY:O	1:q:389:ARG:HB2	2.20	0.42
1:t:548:GLU:O	1:t:552:VAL:HB	2.20	0.42
1:u:245:ARG:HE	1:u:363:PRO:HG2	1.85	0.42
1:u:308:PRO:HA	1:u:684:TRP:HA	2.02	0.42
1:u:466:GLY:N	1:u:473:GLN:HE22	2.17	0.42
1:x:308:PRO:HA	1:x:684:TRP:HA	2.02	0.42
1:y:385:GLN:HB3	1:y:386:ALA:H	1.63	0.42
1:y:714:VAL:HG21	1:y:718:GLY:HA2	2.01	0.42
1:z:452:SER:HA	1:z:457:GLN:CD	2.45	0.42
1:1:287:PHE:HE2	1:1:611:VAL:HG11	1.85	0.42
1:1:473:GLN:O	1:1:475:ARG:HG3	2.20	0.42
1:1:555:GLU:OE1	1:1:555:GLU:N	2.46	0.42
1:2:245:ARG:HE	1:2:363:PRO:HG2	1.85	0.42
1:2:378:LEU:O	1:2:379:THR:OG1	2.26	0.42
1:2:716:THR:HG23	1:2:717:ASN:N	2.35	0.42
1:4:485:GLN:HB2	1:4:573:THR:HG22	2.02	0.42
1:4:645:GLN:C	1:4:646:ILE:HG13	2.45	0.42
1:4:651:THR:HA	1:4:652:PRO:HD3	1.92	0.42
1:6:421:HIS:HB2	1:6:637:PHE:CE1	2.54	0.42
1:6:433:LEU:HD13	1:6:433:LEU:O	2.19	0.42
1:6:452:SER:HA	1:6:457:GLN:CD	2.45	0.42
1:7:342:VAL:HG13	1:7:343:PHE:N	2.31	0.42
1:7:548:GLU:O	1:7:552:VAL:HB	2.20	0.42
1:7:601:LEU:O	1:7:604:MET:HG2	2.20	0.42
1:A:621:ILE:HG22	1:I:477:TRP:CH2	2.55	0.41
1:B:342:VAL:HG13	1:B:343:PHE:N	2.31	0.41
1:B:473:GLN:O	1:B:475:ARG:HG3	2.20	0.41
1:B:548:GLU:O	1:B:552:VAL:HB	2.20	0.41
1:B:645:GLN:C	1:B:646:ILE:HG13	2.45	0.41
1:C:427:SER:HB3	1:C:734:ASN:HA	2.02	0.41
1:D:568:THR:HG23	1:D:569:ASN:N	2.36	0.41
1:E:287:PHE:HE2	1:E:611:VAL:HG11	1.85	0.41
1:E:452:SER:HA	1:E:457:GLN:CD	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:368:ASP:CG	1:F:369:VAL:H	2.27	0.41
1:F:496:ASN:HB2	1:F:498:SER:HB2	2.02	0.41
1:F:601:LEU:O	1:F:604:MET:HG2	2.20	0.41
1:I:244:THR:O	1:I:245:ARG:NH1	2.40	0.41
1:I:339:THR:HG22	1:I:404:ARG:HG2	2.01	0.41
1:I:365:PHE:HA	1:I:366:PRO:HD3	1.91	0.41
1:I:452:SER:HA	1:I:457:GLN:CD	2.45	0.41
1:I:555:GLU:OE1	1:I:555:GLU:N	2.46	0.41
1:J:287:PHE:HE1	1:J:684:TRP:HH2	1.66	0.41
1:J:308:PRO:HA	1:J:684:TRP:HA	2.02	0.41
1:K:555:GLU:OE1	1:K:555:GLU:N	2.46	0.41
1:K:568:THR:HG23	1:K:569:ASN:N	2.35	0.41
1:N:645:GLN:C	1:N:646:ILE:HG13	2.45	0.41
1:P:245:ARG:HE	1:P:363:PRO:HG2	1.85	0.41
1:P:427:SER:HB3	1:P:734:ASN:HA	2.02	0.41
1:P:452:SER:HA	1:P:457:GLN:CD	2.45	0.41
1:P:473:GLN:O	1:P:475:ARG:HG3	2.20	0.41
1:Q:287:PHE:HD2	1:Q:613:LEU:HA	1.85	0.41
1:S:308:PRO:HA	1:S:684:TRP:HA	2.02	0.41
1:T:314:LYS:HE3	1:T:314:LYS:HB3	1.85	0.41
1:U:300:ILE:HD11	1:U:728:THR:HA	2.02	0.41
1:U:714:VAL:HG21	1:U:718:GLY:HA2	2.01	0.41
1:V:245:ARG:HE	1:V:363:PRO:HG2	1.85	0.41
1:V:297:GLN:O	1:V:298:ARG:C	2.63	0.41
1:V:482:CYS:HB3	1:V:570:PRO:HG2	2.02	0.41
1:W:452:SER:HA	1:W:457:GLN:CD	2.45	0.41
1:W:581:THR:OG1	1:W:592:THR:O	2.32	0.41
1:W:716:THR:HG23	1:W:717:ASN:N	2.35	0.41
1:X:308:PRO:HA	1:X:684:TRP:HA	2.02	0.41
1:Y:245:ARG:HE	1:Y:363:PRO:HG2	1.85	0.41
1:Y:339:THR:HG22	1:Y:404:ARG:HG2	2.01	0.41
1:Y:378:LEU:O	1:Y:379:THR:OG1	2.26	0.41
1:Y:568:THR:HG23	1:Y:569:ASN:N	2.36	0.41
1:Z:446:SER:OG	1:Z:447:ARG:N	2.52	0.41
1:Z:620:LYS:HD3	1:Z:642:PRO:CD	2.49	0.41
1:Z:645:GLN:C	1:Z:646:ILE:HG13	2.45	0.41
1:a:245:ARG:HE	1:a:363:PRO:HG2	1.85	0.41
1:a:645:GLN:C	1:a:646:ILE:HG13	2.45	0.41
1:b:288:HIS:ND1	1:b:364:PRO:HG3	2.35	0.41
1:b:473:GLN:O	1:b:475:ARG:HG3	2.20	0.41
1:b:548:GLU:O	1:b:552:VAL:HB	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:452:SER:HA	1:c:457:GLN:CD	2.45	0.41
1:d:245:ARG:HE	1:d:363:PRO:HG2	1.85	0.41
1:d:287:PHE:HD2	1:d:613:LEU:HA	1.85	0.41
1:d:388:GLY:O	1:d:389:ARG:HB2	2.20	0.41
1:d:477:TRP:CH2	1:l:621:ILE:HG22	2.55	0.41
1:e:287:PHE:HD2	1:e:613:LEU:HA	1.85	0.41
1:e:470:ILE:C	1:e:472:ASP:N	2.76	0.41
1:e:496:ASN:HB2	1:e:498:SER:HB2	2.02	0.41
1:f:568:THR:HG23	1:f:569:ASN:N	2.36	0.41
1:g:388:GLY:O	1:g:389:ARG:HB2	2.20	0.41
1:g:470:ILE:C	1:g:472:ASP:N	2.76	0.41
1:g:492:SER:OG	1:h:458:SER:OG	2.31	0.41
1:h:287:PHE:HE2	1:h:611:VAL:HG11	1.85	0.41
1:h:308:PRO:HA	1:h:684:TRP:HA	2.02	0.41
1:h:452:SER:HA	1:h:457:GLN:CD	2.45	0.41
1:h:482:CYS:HB3	1:h:570:PRO:HG2	2.02	0.41
1:i:388:GLY:O	1:i:389:ARG:HB2	2.20	0.41
1:i:482:CYS:HB3	1:i:570:PRO:HG2	2.02	0.41
1:j:611:VAL:O	1:j:727:GLY:HA2	2.19	0.41
1:k:308:PRO:HA	1:k:684:TRP:HA	2.02	0.41
1:k:325:GLN:NE2	1:k:330:THR:HG22	2.34	0.41
1:k:714:VAL:HG21	1:k:718:GLY:HA2	2.01	0.41
1:l:433:LEU:HD13	1:l:433:LEU:O	2.19	0.41
1:l:446:SER:OG	1:l:447:ARG:N	2.53	0.41
1:m:620:LYS:HD3	1:m:642:PRO:CD	2.49	0.41
1:o:287:PHE:HD2	1:o:613:LEU:HA	1.85	0.41
1:o:287:PHE:HE2	1:o:611:VAL:HG11	1.85	0.41
1:o:601:LEU:O	1:o:604:MET:HG2	2.20	0.41
1:o:645:GLN:C	1:o:646:ILE:HG13	2.45	0.41
1:p:696:PRO:HD3	1:s:712:PHE:CE2	2.55	0.41
1:q:287:PHE:HE2	1:q:611:VAL:HG11	1.85	0.41
1:q:352:TYR:CZ	1:q:354:LEU:HD13	2.54	0.41
1:q:452:SER:HA	1:q:457:GLN:CD	2.45	0.41
1:q:482:CYS:HB3	1:q:570:PRO:HG2	2.02	0.41
1:q:601:LEU:O	1:q:604:MET:HG2	2.20	0.41
1:q:716:THR:HG23	1:q:717:ASN:N	2.35	0.41
1:r:568:THR:HG23	1:r:569:ASN:N	2.36	0.41
1:u:300:ILE:HD11	1:u:728:THR:HA	2.02	0.41
1:v:300:ILE:HD11	1:v:728:THR:HA	2.02	0.41
1:v:714:VAL:HG21	1:v:718:GLY:HA2	2.01	0.41
1:w:287:PHE:HD2	1:w:613:LEU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:378:LEU:O	1:w:379:THR:OG1	2.26	0.41
1:w:433:LEU:O	1:w:433:LEU:HD13	2.19	0.41
1:w:470:ILE:C	1:w:472:ASP:N	2.76	0.41
1:w:485:GLN:HB2	1:w:573:THR:HG22	2.02	0.41
1:y:297:GLN:O	1:y:298:ARG:C	2.63	0.41
1:z:287:PHE:HE2	1:z:611:VAL:HG11	1.85	0.41
1:z:446:SER:OG	1:z:447:ARG:N	2.52	0.41
1:1:509:HIS:HB3	1:1:514:ASP:OD1	2.19	0.41
1:1:714:VAL:HG21	1:1:718:GLY:HA2	2.01	0.41
1:2:288:HIS:ND1	1:2:364:PRO:HG3	2.35	0.41
1:2:325:GLN:NE2	1:2:330:THR:HG22	2.34	0.41
1:3:244:THR:O	1:3:245:ARG:NH1	2.40	0.41
1:3:714:VAL:HG21	1:3:718:GLY:HA2	2.01	0.41
1:4:300:ILE:HD11	1:4:728:THR:HA	2.02	0.41
1:5:287:PHE:HD2	1:5:613:LEU:HA	1.85	0.41
1:5:446:SER:OG	1:5:447:ARG:N	2.52	0.41
1:5:485:GLN:HB2	1:5:573:THR:HG22	2.02	0.41
1:6:368:ASP:CG	1:6:369:VAL:H	2.27	0.41
1:6:496:ASN:HB2	1:6:498:SER:HB2	2.02	0.41
1:6:601:LEU:O	1:6:604:MET:HG2	2.20	0.41
1:7:452:SER:HA	1:7:457:GLN:CD	2.45	0.41
1:8:245:ARG:HE	1:8:363:PRO:HG2	1.85	0.41
1:8:427:SER:HB3	1:8:734:ASN:HA	2.02	0.41
1:8:545:GLN:HA	1:8:546:GLY:HA2	1.77	0.41
1:8:548:GLU:O	1:8:552:VAL:HB	2.20	0.41
1:A:287:PHE:HD2	1:A:613:LEU:HA	1.86	0.41
1:A:568:THR:HG23	1:A:569:ASN:N	2.35	0.41
1:A:645:GLN:C	1:A:646:ILE:HG13	2.45	0.41
1:C:502:TRP:CD1	1:C:502:TRP:H	2.36	0.41
1:C:586:GLY:O	1:b:496:ASN:HA	2.19	0.41
1:C:601:LEU:O	1:C:604:MET:HG2	2.20	0.41
1:C:714:VAL:HG21	1:C:718:GLY:HA2	2.01	0.41
1:D:485:GLN:HB2	1:D:573:THR:HG22	2.02	0.41
1:F:421:HIS:HB2	1:F:637:PHE:CE1	2.54	0.41
1:F:714:VAL:HG21	1:F:718:GLY:HA2	2.01	0.41
1:G:427:SER:HB3	1:G:734:ASN:HA	2.02	0.41
1:H:601:LEU:O	1:H:604:MET:HG2	2.20	0.41
1:H:645:GLN:C	1:H:646:ILE:HG13	2.45	0.41
1:I:287:PHE:HD2	1:I:613:LEU:HA	1.85	0.41
1:I:288:HIS:ND1	1:I:364:PRO:HG3	2.35	0.41
1:J:388:GLY:O	1:J:389:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:473:GLN:O	1:J:475:ARG:HG3	2.20	0.41
1:K:297:GLN:O	1:K:298:ARG:C	2.63	0.41
1:K:378:LEU:HD23	1:K:378:LEU:HA	1.75	0.41
1:K:378:LEU:O	1:K:379:THR:OG1	2.26	0.41
1:L:427:SER:HB3	1:L:734:ASN:HA	2.02	0.41
1:L:601:LEU:O	1:L:604:MET:HG2	2.20	0.41
1:L:714:VAL:HG21	1:L:718:GLY:HA2	2.01	0.41
1:M:388:GLY:O	1:M:389:ARG:HB2	2.20	0.41
1:N:485:GLN:HB2	1:N:573:THR:HG22	2.02	0.41
1:O:714:VAL:HG21	1:O:718:GLY:HA2	2.01	0.41
1:Q:485:GLN:HB2	1:Q:573:THR:HG22	2.02	0.41
1:Q:645:GLN:C	1:Q:646:ILE:HG13	2.45	0.41
1:R:314:LYS:HB2	1:R:679:SER:HB3	2.00	0.41
1:R:388:GLY:O	1:R:389:ARG:HB2	2.20	0.41
1:R:452:SER:HA	1:R:457:GLN:CD	2.45	0.41
1:R:548:GLU:O	1:R:552:VAL:HB	2.20	0.41
1:S:568:THR:HG23	1:S:569:ASN:N	2.36	0.41
1:T:300:ILE:HD11	1:T:728:THR:HA	2.02	0.41
1:T:427:SER:HB3	1:T:734:ASN:HA	2.02	0.41
1:T:473:GLN:O	1:T:475:ARG:HG3	2.20	0.41
1:T:509:HIS:HB3	1:T:514:ASP:OD1	2.19	0.41
1:U:244:THR:O	1:U:245:ARG:NH1	2.40	0.41
1:V:288:HIS:ND1	1:V:364:PRO:HG3	2.36	0.41
1:V:581:THR:OG1	1:V:592:THR:O	2.32	0.41
1:V:714:VAL:HG21	1:V:718:GLY:HA2	2.01	0.41
1:W:245:ARG:HE	1:W:363:PRO:HG2	1.85	0.41
1:W:287:PHE:HE2	1:W:611:VAL:HG11	1.85	0.41
1:W:482:CYS:HB3	1:W:570:PRO:HG2	2.03	0.41
1:X:300:ILE:HD11	1:X:728:THR:HA	2.02	0.41
1:X:427:SER:HB3	1:X:734:ASN:HA	2.02	0.41
1:Z:452:SER:HA	1:Z:457:GLN:CD	2.45	0.41
1:a:244:THR:O	1:a:245:ARG:NH1	2.40	0.41
1:a:485:GLN:HB2	1:a:573:THR:HG22	2.02	0.41
1:b:342:VAL:HG13	1:b:343:PHE:N	2.31	0.41
1:b:378:LEU:HD23	1:b:378:LEU:HA	1.75	0.41
1:c:287:PHE:HD2	1:c:613:LEU:HA	1.85	0.41
1:c:288:HIS:ND1	1:c:364:PRO:HG3	2.36	0.41
1:c:339:THR:HG22	1:c:404:ARG:HG2	2.01	0.41
1:d:288:HIS:ND1	1:d:364:PRO:HG3	2.36	0.41
1:d:378:LEU:O	1:d:379:THR:OG1	2.26	0.41
1:d:452:SER:HA	1:d:457:GLN:CD	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:586:GLY:O	1:l:496:ASN:HA	2.20	0.41
1:e:288:HIS:ND1	1:e:364:PRO:HG3	2.36	0.41
1:f:288:HIS:ND1	1:f:364:PRO:HG3	2.36	0.41
1:f:496:ASN:HB2	1:f:498:SER:HB2	2.02	0.41
1:f:555:GLU:OE1	1:f:555:GLU:N	2.46	0.41
1:g:482:CYS:HB3	1:g:570:PRO:HG2	2.03	0.41
1:g:601:LEU:O	1:g:604:MET:HG2	2.20	0.41
1:h:300:ILE:HD11	1:h:728:THR:HA	2.02	0.41
1:h:325:GLN:NE2	1:h:330:THR:HG22	2.34	0.41
1:h:496:ASN:HB2	1:h:498:SER:HB2	2.02	0.41
1:i:470:ILE:C	1:i:472:ASP:N	2.76	0.41
1:i:601:LEU:O	1:i:604:MET:HG2	2.20	0.41
1:j:288:HIS:ND1	1:j:364:PRO:HG3	2.35	0.41
1:j:496:ASN:HB2	1:j:498:SER:HB2	2.02	0.41
1:j:568:THR:HG23	1:j:569:ASN:N	2.36	0.41
1:k:287:PHE:HE2	1:k:611:VAL:HG11	1.85	0.41
1:k:300:ILE:HD11	1:k:728:THR:HA	2.02	0.41
1:k:496:ASN:HB2	1:k:498:SER:HB2	2.02	0.41
1:k:548:GLU:O	1:k:552:VAL:HB	2.20	0.41
1:l:287:PHE:HE2	1:l:611:VAL:HG11	1.85	0.41
1:l:496:ASN:HB2	1:l:498:SER:HB2	2.02	0.41
1:l:645:GLN:C	1:l:646:ILE:HG13	2.45	0.41
1:m:245:ARG:HE	1:m:363:PRO:HG2	1.85	0.41
1:m:388:GLY:O	1:m:389:ARG:HB2	2.20	0.41
1:m:482:CYS:HB3	1:m:570:PRO:HG2	2.03	0.41
1:m:645:GLN:C	1:m:646:ILE:HG13	2.45	0.41
1:p:427:SER:HB3	1:p:734:ASN:HA	2.02	0.41
1:q:245:ARG:HE	1:q:363:PRO:HG2	1.85	0.41
1:r:245:ARG:HE	1:r:363:PRO:HG2	1.85	0.41
1:r:339:THR:HG22	1:r:404:ARG:HG2	2.01	0.41
1:r:586:GLY:O	1:s:496:ASN:HA	2.19	0.41
1:t:288:HIS:ND1	1:t:364:PRO:HG3	2.35	0.41
1:t:314:LYS:HB2	1:t:679:SER:HB3	2.00	0.41
1:u:287:PHE:HE2	1:u:611:VAL:HG11	1.85	0.41
1:u:714:VAL:HG21	1:u:718:GLY:HA2	2.01	0.41
1:x:300:ILE:HD11	1:x:728:THR:HA	2.02	0.41
1:x:427:SER:HB3	1:x:734:ASN:HA	2.02	0.41
1:x:482:CYS:HB3	1:x:570:PRO:HG2	2.02	0.41
1:y:288:HIS:ND1	1:y:364:PRO:HG3	2.36	0.41
1:y:300:ILE:HD11	1:y:728:THR:HA	2.02	0.41
1:z:300:ILE:HD11	1:z:728:THR:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:388:GLY:O	1:z:389:ARG:HB2	2.20	0.41
1:z:433:LEU:HD13	1:z:433:LEU:O	2.19	0.41
1:z:496:ASN:HB2	1:z:498:SER:HB2	2.02	0.41
1:z:665:LYS:HB3	1:4:368:ASP:OD2	2.20	0.41
1:1:300:ILE:HD11	1:1:728:THR:HA	2.02	0.41
1:2:300:ILE:HD11	1:2:728:THR:HA	2.02	0.41
1:2:388:GLY:O	1:2:389:ARG:HB2	2.20	0.41
1:2:568:THR:HG23	1:2:569:ASN:N	2.35	0.41
1:3:473:GLN:O	1:3:475:ARG:HG3	2.20	0.41
1:4:496:ASN:HB2	1:4:498:SER:HB2	2.02	0.41
1:5:388:GLY:O	1:5:389:ARG:HB2	2.20	0.41
1:5:473:GLN:O	1:5:475:ARG:HG3	2.20	0.41
1:6:287:PHE:HE2	1:6:611:VAL:HG11	1.85	0.41
1:6:482:CYS:HB3	1:6:570:PRO:HG2	2.02	0.41
1:7:308:PRO:HA	1:7:684:TRP:HA	2.02	0.41
1:8:288:HIS:ND1	1:8:364:PRO:HG3	2.35	0.41
1:8:452:SER:HA	1:8:457:GLN:CD	2.45	0.41
1:A:245:ARG:HE	1:A:363:PRO:HG2	1.85	0.41
1:A:308:PRO:HA	1:A:684:TRP:HA	2.02	0.41
1:A:416:GLU:CG	1:A:417:ASP:N	2.82	0.41
1:A:586:GLY:O	1:G:496:ASN:HA	2.20	0.41
1:B:288:HIS:ND1	1:B:364:PRO:HG3	2.36	0.41
1:B:427:SER:HB3	1:B:734:ASN:HA	2.02	0.41
1:E:308:PRO:HA	1:E:684:TRP:HA	2.02	0.41
1:E:496:ASN:HB2	1:E:498:SER:HB2	2.02	0.41
1:E:552:VAL:HG21	1:E:556:LYS:HD2	2.03	0.41
1:F:287:PHE:HE2	1:F:611:VAL:HG11	1.85	0.41
1:F:482:CYS:HB3	1:F:570:PRO:HG2	2.03	0.41
1:F:548:GLU:O	1:F:552:VAL:HB	2.20	0.41
1:G:548:GLU:O	1:G:552:VAL:HB	2.20	0.41
1:H:368:ASP:CG	1:H:369:VAL:H	2.27	0.41
1:I:601:LEU:O	1:I:604:MET:HG2	2.20	0.41
1:J:496:ASN:HB2	1:J:498:SER:HB2	2.02	0.41
1:J:568:THR:HG23	1:J:569:ASN:N	2.35	0.41
1:J:581:THR:OG1	1:J:592:THR:O	2.32	0.41
1:K:485:GLN:HB2	1:K:573:THR:HG22	2.02	0.41
1:K:586:GLY:O	1:a:496:ASN:HA	2.19	0.41
1:M:473:GLN:O	1:M:475:ARG:HG3	2.20	0.41
1:M:496:ASN:HB2	1:M:498:SER:HB2	2.02	0.41
1:N:245:ARG:HE	1:N:363:PRO:HG2	1.85	0.41
1:N:308:PRO:HA	1:N:684:TRP:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:552:VAL:HG21	1:O:556:LYS:HD2	2.03	0.41
1:P:288:HIS:ND1	1:P:364:PRO:HG3	2.36	0.41
1:P:308:PRO:HA	1:P:684:TRP:HA	2.02	0.41
1:P:482:CYS:HB3	1:P:570:PRO:HG2	2.03	0.41
1:P:716:THR:HG23	1:P:717:ASN:N	2.35	0.41
1:Q:260:ILE:N	1:Q:274:GLY:O	2.41	0.41
1:Q:308:PRO:HA	1:Q:684:TRP:HA	2.02	0.41
1:Q:388:GLY:O	1:Q:389:ARG:HB2	2.20	0.41
1:Q:608:ASP:HB3	1:Q:609:ARG:H	1.53	0.41
1:R:288:HIS:ND1	1:R:364:PRO:HG3	2.36	0.41
1:R:601:LEU:O	1:R:604:MET:HG2	2.20	0.41
1:R:703:ASN:CG	1:R:704:TYR:H	2.29	0.41
1:R:715:ASP:CG	1:R:716:THR:N	2.75	0.41
1:S:287:PHE:HE2	1:S:611:VAL:HG11	1.85	0.41
1:S:368:ASP:CG	1:S:369:VAL:H	2.27	0.41
1:S:485:GLN:HB2	1:S:573:THR:HG22	2.02	0.41
1:S:714:VAL:HG21	1:S:718:GLY:HA2	2.01	0.41
1:T:555:GLU:OE1	1:T:555:GLU:N	2.46	0.41
1:U:287:PHE:HD2	1:U:613:LEU:HA	1.85	0.41
1:U:446:SER:OG	1:U:447:ARG:N	2.52	0.41
1:V:601:LEU:O	1:V:604:MET:HG2	2.20	0.41
1:V:651:THR:HA	1:V:652:PRO:HD3	1.92	0.41
1:W:552:VAL:HG21	1:W:556:LYS:HD2	2.03	0.41
1:W:601:LEU:O	1:W:604:MET:HG2	2.20	0.41
1:X:288:HIS:ND1	1:X:364:PRO:HG3	2.36	0.41
1:X:482:CYS:HB3	1:X:570:PRO:HG2	2.03	0.41
1:X:496:ASN:HA	1:e:586:GLY:O	2.19	0.41
1:Z:244:THR:O	1:Z:245:ARG:NH1	2.40	0.41
1:Z:245:ARG:HE	1:Z:363:PRO:HG2	1.85	0.41
1:Z:287:PHE:HD2	1:Z:613:LEU:HA	1.85	0.41
1:Z:288:HIS:ND1	1:Z:364:PRO:HG3	2.36	0.41
1:Z:325:GLN:NE2	1:Z:330:THR:HG22	2.34	0.41
1:Z:482:CYS:HB3	1:Z:570:PRO:HG2	2.03	0.41
1:Z:601:LEU:O	1:Z:604:MET:HG2	2.20	0.41
1:b:427:SER:HB3	1:b:734:ASN:HA	2.02	0.41
1:c:586:GLY:O	1:o:496:ASN:HA	2.20	0.41
1:d:300:ILE:HD11	1:d:728:THR:HA	2.02	0.41
1:d:496:ASN:HB2	1:d:498:SER:HB2	2.02	0.41
1:d:568:THR:HG23	1:d:569:ASN:N	2.36	0.41
1:f:645:GLN:C	1:f:646:ILE:HG13	2.45	0.41
1:g:485:GLN:HB2	1:g:573:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:368:ASP:CG	1:h:369:VAL:H	2.27	0.41
1:j:287:PHE:HD2	1:j:613:LEU:HA	1.85	0.41
1:j:645:GLN:C	1:j:646:ILE:HG13	2.45	0.41
1:k:482:CYS:HB3	1:k:570:PRO:HG2	2.03	0.41
1:l:287:PHE:HD2	1:l:613:LEU:HA	1.86	0.41
1:l:300:ILE:HD11	1:l:728:THR:HA	2.02	0.41
1:l:308:PRO:HA	1:l:684:TRP:HA	2.02	0.41
1:l:568:THR:HG23	1:l:569:ASN:N	2.35	0.41
1:m:287:PHE:HE2	1:m:611:VAL:HG11	1.85	0.41
1:m:287:PHE:HD2	1:m:613:LEU:HA	1.85	0.41
1:m:300:ILE:HD11	1:m:728:THR:HA	2.02	0.41
1:m:325:GLN:NE2	1:m:330:THR:HG22	2.34	0.41
1:m:601:LEU:O	1:m:604:MET:HG2	2.20	0.41
1:n:308:PRO:HA	1:n:684:TRP:HA	2.02	0.41
1:o:297:GLN:O	1:o:298:ARG:C	2.63	0.41
1:o:568:THR:HG23	1:o:569:ASN:N	2.36	0.41
1:p:608:ASP:HB3	1:p:609:ARG:H	1.53	0.41
1:q:287:PHE:HD2	1:q:613:LEU:HA	1.85	0.41
1:q:552:VAL:HG21	1:q:556:LYS:HD2	2.03	0.41
1:t:308:PRO:HA	1:t:684:TRP:HA	2.02	0.41
1:t:601:LEU:O	1:t:604:MET:HG2	2.20	0.41
1:v:287:PHE:HD2	1:v:613:LEU:HA	1.85	0.41
1:v:485:GLN:HB2	1:v:573:THR:HG22	2.02	0.41
1:w:288:HIS:ND1	1:w:364:PRO:HG3	2.36	0.41
1:w:496:ASN:HB2	1:w:498:SER:HB2	2.02	0.41
1:w:651:THR:HA	1:w:652:PRO:HD3	1.92	0.41
1:x:288:HIS:ND1	1:x:364:PRO:HG3	2.36	0.41
1:x:496:ASN:HB2	1:x:498:SER:HB2	2.02	0.41
1:x:601:LEU:O	1:x:604:MET:HG2	2.20	0.41
1:y:245:ARG:HE	1:y:363:PRO:HG2	1.85	0.41
1:y:473:GLN:O	1:y:475:ARG:HG3	2.20	0.41
1:y:482:CYS:HB3	1:y:570:PRO:HG2	2.03	0.41
1:z:287:PHE:HD2	1:z:613:LEU:HA	1.86	0.41
1:z:645:GLN:C	1:z:646:ILE:HG13	2.45	0.41
1:1:314:LYS:HE3	1:1:314:LYS:HB3	1.85	0.41
1:1:427:SER:HB3	1:1:734:ASN:HA	2.02	0.41
1:1:703:ASN:CG	1:1:704:TYR:H	2.29	0.41
1:2:287:PHE:HD2	1:2:613:LEU:HA	1.85	0.41
1:2:496:ASN:HB2	1:2:498:SER:HB2	2.02	0.41
1:3:245:ARG:HE	1:3:363:PRO:HG2	1.85	0.41
1:3:339:THR:HG22	1:3:404:ARG:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:342:VAL:HG13	1:3:343:PHE:N	2.31	0.41
1:4:581:THR:OG1	1:4:592:THR:O	2.32	0.41
1:4:716:THR:HG23	1:4:717:ASN:N	2.35	0.41
1:5:245:ARG:HE	1:5:363:PRO:HG2	1.85	0.41
1:5:496:ASN:HB2	1:5:498:SER:HB2	2.02	0.41
1:5:645:GLN:C	1:5:646:ILE:HG13	2.45	0.41
1:6:427:SER:HB3	1:6:734:ASN:HA	2.02	0.41
1:6:548:GLU:O	1:6:552:VAL:HB	2.20	0.41
1:7:496:ASN:HB2	1:7:498:SER:HB2	2.02	0.41
1:8:482:CYS:HB3	1:8:570:PRO:HG2	2.02	0.41
1:A:297:GLN:O	1:A:298:ARG:C	2.63	0.41
1:B:703:ASN:CG	1:B:704:TYR:H	2.29	0.41
1:D:287:PHE:HD2	1:D:613:LEU:HA	1.85	0.41
1:D:555:GLU:OE1	1:D:555:GLU:N	2.46	0.41
1:F:308:PRO:HA	1:F:684:TRP:HA	2.02	0.41
1:F:427:SER:HB3	1:F:734:ASN:HA	2.02	0.41
1:F:446:SER:OG	1:F:447:ARG:N	2.52	0.41
1:G:287:PHE:HE1	1:G:684:TRP:HH2	1.65	0.41
1:G:703:ASN:CG	1:G:704:TYR:H	2.29	0.41
1:I:308:PRO:HA	1:I:684:TRP:HA	2.02	0.41
1:K:288:HIS:ND1	1:K:364:PRO:HG3	2.35	0.41
1:K:552:VAL:HG21	1:K:556:LYS:HD2	2.03	0.41
1:L:245:ARG:HE	1:L:363:PRO:HG2	1.85	0.41
1:L:287:PHE:HE1	1:L:684:TRP:HH2	1.66	0.41
1:L:502:TRP:CD1	1:L:502:TRP:H	2.36	0.41
1:M:485:GLN:HB2	1:M:573:THR:HG22	2.02	0.41
1:N:482:CYS:HB3	1:N:570:PRO:HG2	2.03	0.41
1:N:555:GLU:OE1	1:N:555:GLU:N	2.46	0.41
1:O:339:THR:HG22	1:O:404:ARG:HG2	2.01	0.41
1:O:473:GLN:O	1:O:475:ARG:HG3	2.20	0.41
1:P:552:VAL:HG21	1:P:556:LYS:HD2	2.03	0.41
1:Q:245:ARG:HE	1:Q:363:PRO:HG2	1.85	0.41
1:Q:482:CYS:HB3	1:Q:570:PRO:HG2	2.02	0.41
1:R:308:PRO:HA	1:R:684:TRP:HA	2.02	0.41
1:R:365:PHE:HA	1:R:366:PRO:HD3	1.91	0.41
1:R:496:ASN:HB2	1:R:498:SER:HB2	2.02	0.41
1:T:288:HIS:ND1	1:T:364:PRO:HG3	2.35	0.41
1:T:297:GLN:O	1:T:298:ARG:C	2.63	0.41
1:T:703:ASN:CG	1:T:704:TYR:H	2.29	0.41
1:U:427:SER:HB3	1:U:734:ASN:HA	2.02	0.41
1:U:485:GLN:HB2	1:U:573:THR:HG22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:555:GLU:OE1	1:W:555:GLU:N	2.46	0.41
1:X:496:ASN:HB2	1:X:498:SER:HB2	2.02	0.41
1:X:568:THR:HG23	1:X:569:ASN:N	2.35	0.41
1:X:601:LEU:O	1:X:604:MET:HG2	2.20	0.41
1:X:703:ASN:CG	1:X:704:TYR:H	2.29	0.41
1:Z:287:PHE:HE2	1:Z:611:VAL:HG11	1.85	0.41
1:a:368:ASP:CG	1:a:369:VAL:H	2.27	0.41
1:a:545:GLN:NE2	1:a:721:SER:HA	2.36	0.41
1:b:311:LEU:C	1:b:311:LEU:HD12	2.46	0.41
1:c:308:PRO:HA	1:c:684:TRP:HA	2.02	0.41
1:c:365:PHE:HA	1:c:366:PRO:HD3	1.91	0.41
1:c:601:LEU:O	1:c:604:MET:HG2	2.20	0.41
1:c:703:ASN:CG	1:c:704:TYR:H	2.29	0.41
1:d:548:GLU:O	1:d:552:VAL:HB	2.20	0.41
1:d:703:ASN:CG	1:d:704:TYR:H	2.29	0.41
1:e:325:GLN:NE2	1:e:330:THR:HG22	2.34	0.41
1:e:433:LEU:HD13	1:e:433:LEU:O	2.19	0.41
1:e:601:LEU:O	1:e:604:MET:HG2	2.20	0.41
1:f:300:ILE:HD11	1:f:728:THR:HA	2.02	0.41
1:g:314:LYS:HE3	1:g:314:LYS:HB3	1.85	0.41
1:g:620:LYS:HD3	1:g:642:PRO:CD	2.49	0.41
1:h:548:GLU:O	1:h:552:VAL:HB	2.20	0.41
1:i:287:PHE:HD2	1:i:613:LEU:HA	1.85	0.41
1:i:485:GLN:HB2	1:i:573:THR:HG22	2.02	0.41
1:j:354:LEU:O	1:j:356:SER:N	2.47	0.41
1:m:288:HIS:ND1	1:m:364:PRO:HG3	2.36	0.41
1:m:368:ASP:OD2	1:s:665:LYS:HB3	2.20	0.41
1:m:452:SER:HA	1:m:457:GLN:CD	2.45	0.41
1:n:716:THR:HG23	1:n:717:ASN:N	2.35	0.41
1:o:245:ARG:HE	1:o:363:PRO:HG2	1.85	0.41
1:p:545:GLN:NE2	1:p:721:SER:HA	2.36	0.41
1:q:244:THR:O	1:q:245:ARG:NH1	2.40	0.41
1:q:568:THR:HG23	1:q:569:ASN:N	2.35	0.41
1:q:621:ILE:HG22	1:s:477:TRP:CH2	2.56	0.41
1:s:482:CYS:HB3	1:s:570:PRO:HG2	2.02	0.41
1:s:601:LEU:O	1:s:604:MET:HG2	2.20	0.41
1:s:645:GLN:C	1:s:646:ILE:HG13	2.45	0.41
1:s:703:ASN:CG	1:s:704:TYR:H	2.29	0.41
1:t:365:PHE:HA	1:t:366:PRO:HD3	1.91	0.41
1:t:452:SER:HA	1:t:457:GLN:CD	2.45	0.41
1:t:703:ASN:CG	1:t:704:TYR:H	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:485:GLN:HB2	1:u:573:THR:HG22	2.02	0.41
1:u:568:THR:HG23	1:u:569:ASN:N	2.36	0.41
1:v:314:LYS:HB3	1:v:314:LYS:HE3	1.85	0.41
1:v:601:LEU:O	1:v:604:MET:HG2	2.20	0.41
1:w:446:SER:OG	1:w:447:ARG:N	2.52	0.41
1:w:601:LEU:O	1:w:604:MET:HG2	2.20	0.41
1:y:601:LEU:O	1:y:604:MET:HG2	2.20	0.41
1:z:308:PRO:HA	1:z:684:TRP:HA	2.02	0.41
1:z:496:ASN:HA	1:2:586:GLY:O	2.20	0.41
1:z:497:ASN:CB	1:z:498:SER:HA	2.45	0.41
1:z:568:THR:HG23	1:z:569:ASN:N	2.36	0.41
1:1:288:HIS:ND1	1:1:364:PRO:HG3	2.36	0.41
1:1:354:LEU:O	1:1:356:SER:N	2.47	0.41
1:1:545:GLN:NE2	1:1:721:SER:HA	2.36	0.41
1:1:608:ASP:HB3	1:1:609:ARG:H	1.53	0.41
1:2:311:LEU:C	1:2:311:LEU:HD12	2.46	0.41
1:2:703:ASN:CG	1:2:704:TYR:H	2.29	0.41
1:3:482:CYS:HB3	1:3:570:PRO:HG2	2.03	0.41
1:6:308:PRO:HA	1:6:684:TRP:HA	2.02	0.41
1:6:714:VAL:HG21	1:6:718:GLY:HA2	2.01	0.41
1:7:287:PHE:HE2	1:7:611:VAL:HG11	1.85	0.41
1:7:552:VAL:HG21	1:7:556:LYS:HD2	2.03	0.41
1:8:308:PRO:HA	1:8:684:TRP:HA	2.02	0.41
1:8:388:GLY:O	1:8:389:ARG:HB2	2.20	0.41
1:8:552:VAL:HG21	1:8:556:LYS:HD2	2.03	0.41
1:8:716:THR:HG23	1:8:717:ASN:N	2.35	0.41
1:A:288:HIS:ND1	1:A:364:PRO:HG3	2.36	0.41
1:A:452:SER:HA	1:A:457:GLN:CD	2.45	0.41
1:B:311:LEU:C	1:B:311:LEU:HD12	2.46	0.41
1:B:378:LEU:HD23	1:B:378:LEU:HA	1.75	0.41
1:B:496:ASN:HB2	1:B:498:SER:HB2	2.02	0.41
1:B:651:THR:HA	1:B:652:PRO:HD3	1.92	0.41
1:C:245:ARG:HE	1:C:363:PRO:HG2	1.85	0.41
1:C:548:GLU:O	1:C:552:VAL:HB	2.20	0.41
1:C:716:THR:HG23	1:C:717:ASN:N	2.35	0.41
1:D:260:ILE:N	1:D:274:GLY:O	2.41	0.41
1:D:288:HIS:ND1	1:D:364:PRO:HG3	2.36	0.41
1:D:526:HIS:CE1	1:D:531:GLU:H	2.39	0.41
1:D:552:VAL:HG21	1:D:556:LYS:HD2	2.03	0.41
1:D:586:GLY:O	1:N:496:ASN:HA	2.19	0.41
1:E:608:ASP:HB3	1:E:609:ARG:H	1.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:703:ASN:CG	1:E:704:TYR:H	2.29	0.41
1:F:311:LEU:C	1:F:311:LEU:HD12	2.46	0.41
1:G:287:PHE:HD2	1:G:613:LEU:HA	1.85	0.41
1:G:452:SER:HA	1:G:457:GLN:CD	2.45	0.41
1:G:545:GLN:NE2	1:G:721:SER:HA	2.36	0.41
1:G:601:LEU:O	1:G:604:MET:HG2	2.20	0.41
1:H:482:CYS:HB3	1:H:570:PRO:HG2	2.03	0.41
1:H:703:ASN:CG	1:H:704:TYR:H	2.29	0.41
1:I:482:CYS:HB3	1:I:570:PRO:HG2	2.02	0.41
1:I:711:ASP:O	1:I:712:PHE:C	2.64	0.41
1:J:287:PHE:HD2	1:J:613:LEU:HA	1.85	0.41
1:J:288:HIS:ND1	1:J:364:PRO:HG3	2.35	0.41
1:J:545:GLN:NE2	1:J:721:SER:HA	2.36	0.41
1:K:287:PHE:HD2	1:K:613:LEU:HA	1.85	0.41
1:L:716:THR:HG23	1:L:717:ASN:N	2.35	0.41
1:M:287:PHE:HD2	1:M:613:LEU:HA	1.85	0.41
1:M:288:HIS:ND1	1:M:364:PRO:HG3	2.36	0.41
1:M:311:LEU:HD12	1:M:311:LEU:C	2.46	0.41
1:M:545:GLN:NE2	1:M:721:SER:HA	2.36	0.41
1:M:568:THR:HG23	1:M:569:ASN:N	2.36	0.41
1:N:368:ASP:CG	1:N:369:VAL:H	2.27	0.41
1:N:388:GLY:O	1:N:389:ARG:HB2	2.20	0.41
1:N:545:GLN:NE2	1:N:721:SER:HA	2.36	0.41
1:N:568:THR:HG23	1:N:569:ASN:N	2.35	0.41
1:O:245:ARG:HE	1:O:363:PRO:HG2	1.85	0.41
1:O:288:HIS:ND1	1:O:364:PRO:HG3	2.36	0.41
1:O:482:CYS:HB3	1:O:570:PRO:HG2	2.02	0.41
1:O:716:THR:HG23	1:O:717:ASN:N	2.35	0.41
1:Q:314:LYS:HE3	1:Q:314:LYS:HB3	1.85	0.41
1:Q:470:ILE:C	1:Q:472:ASP:N	2.76	0.41
1:Q:568:THR:HG23	1:Q:569:ASN:N	2.36	0.41
1:T:339:THR:HG22	1:T:404:ARG:HG2	2.01	0.41
1:T:482:CYS:HB3	1:T:570:PRO:HG2	2.02	0.41
1:T:485:GLN:HB2	1:T:573:THR:HG22	2.02	0.41
1:U:308:PRO:HA	1:U:684:TRP:HA	2.02	0.41
1:U:473:GLN:O	1:U:475:ARG:HG3	2.20	0.41
1:U:548:GLU:O	1:U:552:VAL:HB	2.20	0.41
1:U:601:LEU:O	1:U:604:MET:HG2	2.20	0.41
1:V:473:GLN:O	1:V:475:ARG:HG3	2.20	0.41
1:V:548:GLU:O	1:V:552:VAL:HB	2.20	0.41
1:W:287:PHE:HD2	1:W:613:LEU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:300:ILE:HD11	1:W:728:THR:HA	2.02	0.41
1:W:568:THR:HG23	1:W:569:ASN:N	2.35	0.41
1:Y:482:CYS:HB3	1:Y:570:PRO:HG2	2.02	0.41
1:Z:427:SER:HB3	1:Z:734:ASN:HA	2.02	0.41
1:Z:545:GLN:NE2	1:Z:721:SER:HA	2.36	0.41
1:Z:552:VAL:HG21	1:Z:556:LYS:HD2	2.03	0.41
1:a:288:HIS:ND1	1:a:364:PRO:HG3	2.35	0.41
1:a:308:PRO:HA	1:a:684:TRP:HA	2.02	0.41
1:a:388:GLY:O	1:a:389:ARG:HB2	2.20	0.41
1:a:482:CYS:HB3	1:a:570:PRO:HG2	2.02	0.41
1:b:339:THR:HG22	1:b:404:ARG:HG2	2.01	0.41
1:c:555:GLU:OE1	1:c:555:GLU:N	2.46	0.41
1:c:711:ASP:O	1:c:712:PHE:C	2.64	0.41
1:d:311:LEU:HD12	1:d:311:LEU:C	2.46	0.41
1:d:545:GLN:NE2	1:d:721:SER:HA	2.36	0.41
1:d:552:VAL:HG21	1:d:556:LYS:HD2	2.03	0.41
1:e:297:GLN:O	1:e:298:ARG:C	2.63	0.41
1:e:354:LEU:O	1:e:356:SER:N	2.47	0.41
1:e:446:SER:OG	1:e:447:ARG:N	2.52	0.41
1:e:452:SER:HA	1:e:457:GLN:CD	2.45	0.41
1:e:568:THR:HG23	1:e:569:ASN:N	2.35	0.41
1:e:651:THR:HA	1:e:652:PRO:HD3	1.92	0.41
1:f:482:CYS:HB3	1:f:570:PRO:HG2	2.03	0.41
1:f:522:ALA:HA	1:f:609:ARG:NH2	2.36	0.41
1:f:581:THR:OG1	1:f:592:THR:O	2.32	0.41
1:g:287:PHE:HD2	1:g:613:LEU:HA	1.85	0.41
1:g:287:PHE:HE2	1:g:611:VAL:HG11	1.85	0.41
1:g:300:ILE:HD11	1:g:728:THR:HA	2.02	0.41
1:g:568:THR:HG23	1:g:569:ASN:N	2.36	0.41
1:j:300:ILE:HD11	1:j:728:THR:HA	2.02	0.41
1:j:482:CYS:HB3	1:j:570:PRO:HG2	2.03	0.41
1:j:522:ALA:HA	1:j:609:ARG:NH2	2.36	0.41
1:k:368:ASP:CG	1:k:369:VAL:H	2.27	0.41
1:m:287:PHE:HE1	1:m:684:TRP:HH2	1.66	0.41
1:m:297:GLN:O	1:m:298:ARG:C	2.63	0.41
1:m:427:SER:HB3	1:m:734:ASN:HA	2.02	0.41
1:m:552:VAL:HG21	1:m:556:LYS:HD2	2.03	0.41
1:n:601:LEU:O	1:n:604:MET:HG2	2.20	0.41
1:o:416:GLU:CG	1:o:417:ASP:N	2.82	0.41
1:o:452:SER:HA	1:o:457:GLN:CD	2.45	0.41
1:p:287:PHE:HE1	1:p:684:TRP:HH2	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:452:SER:HA	1:p:457:GLN:CD	2.45	0.41
1:p:568:THR:HG23	1:p:569:ASN:N	2.36	0.41
1:p:601:LEU:O	1:p:604:MET:HG2	2.20	0.41
1:p:696:PRO:HD3	1:s:712:PHE:HE2	1.86	0.41
1:p:703:ASN:CG	1:p:704:TYR:H	2.29	0.41
1:q:300:ILE:HD11	1:q:728:THR:HA	2.02	0.41
1:r:287:PHE:HD2	1:r:613:LEU:HA	1.85	0.41
1:r:482:CYS:HB3	1:r:570:PRO:HG2	2.02	0.41
1:s:297:GLN:O	1:s:298:ARG:C	2.63	0.41
1:s:368:ASP:CG	1:s:369:VAL:H	2.27	0.41
1:s:446:SER:OG	1:s:447:ARG:N	2.52	0.41
1:t:388:GLY:O	1:t:389:ARG:HB2	2.20	0.41
1:t:470:ILE:C	1:t:472:ASP:N	2.76	0.41
1:t:482:CYS:HB3	1:t:570:PRO:HG2	2.02	0.41
1:u:368:ASP:CG	1:u:369:VAL:H	2.27	0.41
1:v:244:THR:O	1:v:245:ARG:NH1	2.40	0.41
1:v:308:PRO:HA	1:v:684:TRP:HA	2.02	0.41
1:v:446:SER:OG	1:v:447:ARG:N	2.52	0.41
1:v:548:GLU:O	1:v:552:VAL:HB	2.20	0.41
1:w:245:ARG:HE	1:w:363:PRO:HG2	1.85	0.41
1:w:297:GLN:O	1:w:298:ARG:C	2.63	0.41
1:w:452:SER:HA	1:w:457:GLN:CD	2.45	0.41
1:w:522:ALA:HA	1:w:609:ARG:NH2	2.36	0.41
1:x:452:SER:HA	1:x:457:GLN:CD	2.45	0.41
1:x:545:GLN:NE2	1:x:721:SER:HA	2.36	0.41
1:x:568:THR:HG23	1:x:569:ASN:N	2.36	0.41
1:x:703:ASN:CG	1:x:704:TYR:H	2.29	0.41
1:y:568:THR:HG23	1:y:569:ASN:N	2.36	0.41
1:z:545:GLN:NE2	1:z:721:SER:HA	2.36	0.41
1:1:297:GLN:O	1:1:298:ARG:C	2.63	0.41
1:1:482:CYS:HB3	1:1:570:PRO:HG2	2.02	0.41
1:1:485:GLN:HB2	1:1:573:THR:HG22	2.02	0.41
1:2:548:GLU:O	1:2:552:VAL:HB	2.20	0.41
1:2:552:VAL:HG21	1:2:556:LYS:HD2	2.03	0.41
1:3:288:HIS:ND1	1:3:364:PRO:HG3	2.36	0.41
1:3:388:GLY:O	1:3:389:ARG:HB2	2.20	0.41
1:3:552:VAL:HG21	1:3:556:LYS:HD2	2.03	0.41
1:4:287:PHE:HD2	1:4:613:LEU:HA	1.85	0.41
1:4:308:PRO:HA	1:4:684:TRP:HA	2.02	0.41
1:4:473:GLN:O	1:4:475:ARG:HG3	2.20	0.41
1:4:601:LEU:O	1:4:604:MET:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:308:PRO:HA	1:5:684:TRP:HA	2.02	0.41
1:5:325:GLN:NE2	1:5:330:THR:HG22	2.34	0.41
1:5:482:CYS:HB3	1:5:570:PRO:HG2	2.03	0.41
1:8:311:LEU:C	1:8:311:LEU:HD12	2.46	0.41
1:8:339:THR:HG22	1:8:404:ARG:HG2	2.01	0.41
1:A:300:ILE:HD11	1:A:728:THR:HA	2.02	0.41
1:A:545:GLN:NE2	1:A:721:SER:HA	2.36	0.41
1:B:300:ILE:HD11	1:B:728:THR:HA	2.02	0.41
1:B:325:GLN:NE2	1:B:330:THR:HG22	2.34	0.41
1:B:339:THR:HG22	1:B:404:ARG:HG2	2.01	0.41
1:C:311:LEU:HD12	1:C:311:LEU:C	2.46	0.41
1:D:427:SER:HB3	1:D:734:ASN:HA	2.02	0.41
1:E:375:TYR:CG	1:E:376:GLY:N	2.86	0.41
1:E:716:THR:HG23	1:E:717:ASN:N	2.35	0.41
1:F:473:GLN:O	1:F:475:ARG:HG3	2.20	0.41
1:G:568:THR:HG23	1:G:569:ASN:N	2.36	0.41
1:G:620:LYS:HD3	1:G:642:PRO:CD	2.49	0.41
1:G:645:GLN:C	1:G:646:ILE:HG13	2.45	0.41
1:H:287:PHE:HE2	1:H:611:VAL:HG11	1.85	0.41
1:H:288:HIS:ND1	1:H:364:PRO:HG3	2.36	0.41
1:H:297:GLN:O	1:H:298:ARG:C	2.63	0.41
1:H:446:SER:OG	1:H:447:ARG:N	2.52	0.41
1:H:568:THR:HG23	1:H:569:ASN:N	2.35	0.41
1:I:297:GLN:O	1:I:298:ARG:C	2.63	0.41
1:J:300:ILE:HG21	1:J:300:ILE:HD13	1.86	0.41
1:J:311:LEU:HD12	1:J:311:LEU:C	2.46	0.41
1:J:485:GLN:HB2	1:J:573:THR:HG22	2.02	0.41
1:J:594:ASP:CG	1:J:595:VAL:N	2.73	0.41
1:K:427:SER:HB3	1:K:734:ASN:HA	2.02	0.41
1:K:452:SER:HA	1:K:457:GLN:CD	2.45	0.41
1:K:526:HIS:CE1	1:K:531:GLU:H	2.39	0.41
1:K:601:LEU:O	1:K:604:MET:HG2	2.20	0.41
1:L:311:LEU:C	1:L:311:LEU:HD12	2.46	0.41
1:L:548:GLU:O	1:L:552:VAL:HB	2.20	0.41
1:L:703:ASN:CG	1:L:704:TYR:H	2.29	0.41
1:M:594:ASP:CG	1:M:595:VAL:N	2.73	0.41
1:N:244:THR:O	1:N:245:ARG:NH1	2.40	0.41
1:N:288:HIS:ND1	1:N:364:PRO:HG3	2.36	0.41
1:N:552:VAL:HG21	1:N:556:LYS:HD2	2.03	0.41
1:N:716:THR:HG23	1:N:717:ASN:N	2.35	0.41
1:O:297:GLN:O	1:O:298:ARG:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:308:PRO:HA	1:O:684:TRP:HA	2.02	0.41
1:O:492:SER:OG	1:n:458:SER:OG	2.31	0.41
1:P:311:LEU:C	1:P:311:LEU:HD12	2.46	0.41
1:P:339:THR:HG22	1:P:404:ARG:HG2	2.01	0.41
1:P:388:GLY:O	1:P:389:ARG:HB2	2.20	0.41
1:Q:325:GLN:NE2	1:Q:330:THR:HG22	2.34	0.41
1:Q:496:ASN:HB2	1:Q:498:SER:HB2	2.02	0.41
1:Q:703:ASN:CG	1:Q:704:TYR:H	2.29	0.41
1:R:482:CYS:HB3	1:R:570:PRO:HG2	2.02	0.41
1:R:568:THR:HG23	1:R:569:ASN:N	2.36	0.41
1:S:526:HIS:CE1	1:S:531:GLU:H	2.39	0.41
1:T:452:SER:HA	1:T:457:GLN:CD	2.45	0.41
1:T:545:GLN:NE2	1:T:721:SER:HA	2.36	0.41
1:T:568:THR:HG23	1:T:569:ASN:N	2.36	0.41
1:U:297:GLN:O	1:U:298:ARG:C	2.63	0.41
1:U:526:HIS:CE1	1:U:531:GLU:H	2.39	0.41
1:U:568:THR:HG23	1:U:569:ASN:N	2.36	0.41
1:V:378:LEU:HA	1:V:378:LEU:HD23	1.75	0.41
1:W:244:THR:O	1:W:245:ARG:NH1	2.40	0.41
1:W:526:HIS:CE1	1:W:531:GLU:H	2.39	0.41
1:X:545:GLN:NE2	1:X:721:SER:HA	2.36	0.41
1:Y:287:PHE:HD2	1:Y:613:LEU:HA	1.86	0.41
1:Y:368:ASP:CG	1:Y:369:VAL:H	2.27	0.41
1:Y:485:GLN:HB2	1:Y:573:THR:HG22	2.02	0.41
1:Z:522:ALA:HA	1:Z:609:ARG:NH2	2.36	0.41
1:a:552:VAL:HG21	1:a:556:LYS:HD2	2.03	0.41
1:a:555:GLU:OE1	1:a:555:GLU:N	2.46	0.41
1:a:703:ASN:CG	1:a:704:TYR:H	2.29	0.41
1:a:716:THR:HG23	1:a:717:ASN:N	2.35	0.41
1:b:300:ILE:HD11	1:b:728:THR:HA	2.02	0.41
1:b:452:SER:HA	1:b:457:GLN:CD	2.45	0.41
1:b:601:LEU:O	1:b:604:MET:HG2	2.20	0.41
1:c:253:ASN:O	1:c:254:ASN:HB2	2.21	0.41
1:c:297:GLN:O	1:c:298:ARG:C	2.63	0.41
1:c:300:ILE:HD11	1:c:728:THR:HA	2.02	0.41
1:c:368:ASP:CG	1:c:369:VAL:H	2.27	0.41
1:c:482:CYS:HB3	1:c:570:PRO:HG2	2.03	0.41
1:c:545:GLN:NE2	1:c:721:SER:HA	2.36	0.41
1:e:245:ARG:HE	1:e:363:PRO:HG2	1.85	0.41
1:e:620:LYS:HD3	1:e:642:PRO:CD	2.49	0.41
1:f:287:PHE:HD2	1:f:613:LEU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:485:GLN:HB2	1:f:573:THR:HG22	2.02	0.41
1:h:485:GLN:HB2	1:h:573:THR:HG22	2.02	0.41
1:h:716:THR:HG23	1:h:717:ASN:N	2.35	0.41
1:i:300:ILE:HD11	1:i:728:THR:HA	2.02	0.41
1:i:568:THR:HG23	1:i:569:ASN:N	2.35	0.41
1:j:325:GLN:NE2	1:j:330:THR:HG22	2.34	0.41
1:j:581:THR:OG1	1:j:592:THR:O	2.32	0.41
1:k:485:GLN:HB2	1:k:573:THR:HG22	2.02	0.41
1:l:375:TYR:CG	1:l:376:GLY:N	2.86	0.41
1:l:703:ASN:CG	1:l:704:TYR:H	2.29	0.41
1:m:522:ALA:HA	1:m:609:ARG:NH2	2.36	0.41
1:n:473:GLN:O	1:n:475:ARG:HG3	2.20	0.41
1:n:522:ALA:HA	1:n:609:ARG:NH2	2.36	0.41
1:o:288:HIS:ND1	1:o:364:PRO:HG3	2.36	0.41
1:o:300:ILE:HD11	1:o:728:THR:HA	2.02	0.41
1:o:308:PRO:HA	1:o:684:TRP:HA	2.02	0.41
1:o:711:ASP:O	1:o:712:PHE:C	2.64	0.41
1:p:548:GLU:O	1:p:552:VAL:HB	2.20	0.41
1:q:522:ALA:HA	1:q:609:ARG:NH2	2.36	0.41
1:r:485:GLN:HB2	1:r:573:THR:HG22	2.02	0.41
1:t:245:ARG:HE	1:t:363:PRO:HG2	1.85	0.41
1:t:496:ASN:HB2	1:t:498:SER:HB2	2.02	0.41
1:t:608:ASP:HB3	1:t:609:ARG:H	1.53	0.41
1:u:452:SER:HA	1:u:457:GLN:CD	2.45	0.41
1:u:526:HIS:CE1	1:u:531:GLU:H	2.39	0.41
1:v:427:SER:HB3	1:v:734:ASN:HA	2.02	0.41
1:v:526:HIS:CE1	1:v:531:GLU:H	2.39	0.41
1:v:568:THR:HG23	1:v:569:ASN:N	2.36	0.41
1:w:325:GLN:NE2	1:w:330:THR:HG22	2.34	0.41
1:w:354:LEU:O	1:w:356:SER:N	2.47	0.41
1:w:620:LYS:HD3	1:w:642:PRO:CD	2.49	0.41
1:y:548:GLU:O	1:y:552:VAL:HB	2.20	0.41
1:y:651:THR:HA	1:y:652:PRO:HD3	1.92	0.41
1:1:568:THR:HG23	1:1:569:ASN:N	2.36	0.41
1:2:545:GLN:NE2	1:2:721:SER:HA	2.36	0.41
1:5:260:ILE:N	1:5:274:GLY:O	2.41	0.41
1:5:497:ASN:CB	1:5:498:SER:HA	2.45	0.41
1:5:568:THR:HG23	1:5:569:ASN:N	2.36	0.41
1:5:703:ASN:CG	1:5:704:TYR:H	2.29	0.41
1:6:311:LEU:C	1:6:311:LEU:HD12	2.46	0.41
1:6:388:GLY:O	1:6:389:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:446:SER:OG	1:6:447:ARG:N	2.52	0.41
1:7:526:HIS:CE1	1:7:531:GLU:H	2.39	0.41
1:7:703:ASN:CG	1:7:704:TYR:H	2.29	0.41
1:8:645:GLN:C	1:8:646:ILE:HG13	2.45	0.41
1:A:711:ASP:O	1:A:712:PHE:C	2.64	0.41
1:B:308:PRO:HA	1:B:684:TRP:HA	2.02	0.41
1:B:452:SER:HA	1:B:457:GLN:CD	2.45	0.41
1:B:552:VAL:HG21	1:B:556:LYS:HD2	2.03	0.41
1:B:601:LEU:O	1:B:604:MET:HG2	2.20	0.41
1:C:287:PHE:HE1	1:C:684:TRP:HH2	1.65	0.41
1:C:552:VAL:HG21	1:C:556:LYS:HD2	2.03	0.41
1:C:665:LYS:HB3	1:D:368:ASP:OD2	2.21	0.41
1:C:703:ASN:CG	1:C:704:TYR:H	2.29	0.41
1:D:253:ASN:O	1:D:254:ASN:HB2	2.21	0.41
1:D:378:LEU:O	1:D:379:THR:OG1	2.26	0.41
1:D:522:ALA:HA	1:D:609:ARG:NH2	2.36	0.41
1:E:325:GLN:NE2	1:E:330:THR:HG22	2.34	0.41
1:E:526:HIS:CE1	1:E:531:GLU:H	2.39	0.41
1:F:297:GLN:O	1:F:298:ARG:C	2.63	0.41
1:F:388:GLY:O	1:F:389:ARG:HB2	2.20	0.41
1:G:311:LEU:C	1:G:311:LEU:HD12	2.46	0.41
1:G:552:VAL:HG21	1:G:556:LYS:HD2	2.03	0.41
1:H:522:ALA:HA	1:H:609:ARG:NH2	2.36	0.41
1:H:545:GLN:NE2	1:H:721:SER:HA	2.36	0.41
1:I:368:ASP:CG	1:I:369:VAL:H	2.27	0.41
1:I:545:GLN:NE2	1:I:721:SER:HA	2.36	0.41
1:J:244:THR:O	1:J:245:ARG:NH1	2.40	0.41
1:K:368:ASP:OD2	1:L:665:LYS:HB3	2.21	0.41
1:K:482:CYS:HB3	1:K:570:PRO:HG2	2.03	0.41
1:K:522:ALA:HA	1:K:609:ARG:NH2	2.36	0.41
1:K:545:GLN:NE2	1:K:721:SER:HA	2.36	0.41
1:K:645:GLN:C	1:K:646:ILE:HG13	2.45	0.41
1:N:522:ALA:HA	1:N:609:ARG:NH2	2.36	0.41
1:N:703:ASN:CG	1:N:704:TYR:H	2.29	0.41
1:O:388:GLY:O	1:O:389:ARG:HB2	2.20	0.41
1:O:427:SER:HB3	1:O:734:ASN:HA	2.02	0.41
1:O:601:LEU:O	1:O:604:MET:HG2	2.20	0.41
1:P:555:GLU:OE1	1:P:555:GLU:N	2.46	0.41
1:P:645:GLN:C	1:P:646:ILE:HG13	2.45	0.41
1:Q:253:ASN:O	1:Q:254:ASN:HB2	2.21	0.41
1:Q:311:LEU:C	1:Q:311:LEU:HD12	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:522:ALA:HA	1:Q:609:ARG:NH2	2.36	0.41
1:R:245:ARG:HE	1:R:363:PRO:HG2	1.85	0.41
1:S:452:SER:HA	1:S:457:GLN:CD	2.45	0.41
1:S:645:GLN:C	1:S:646:ILE:HG13	2.45	0.41
1:T:388:GLY:O	1:T:389:ARG:HB2	2.20	0.41
1:T:522:ALA:HA	1:T:609:ARG:NH2	2.36	0.41
1:U:339:THR:HG22	1:U:404:ARG:HG2	2.01	0.41
1:U:496:ASN:HB2	1:U:498:SER:HB2	2.02	0.41
1:V:568:THR:HG23	1:V:569:ASN:N	2.36	0.41
1:W:522:ALA:HA	1:W:609:ARG:NH2	2.36	0.41
1:X:711:ASP:O	1:X:712:PHE:C	2.64	0.41
1:Y:288:HIS:ND1	1:Y:364:PRO:HG3	2.36	0.41
1:Y:365:PHE:HA	1:Y:366:PRO:HD3	1.91	0.41
1:Z:287:PHE:HE1	1:Z:684:TRP:HH2	1.66	0.41
1:Z:297:GLN:O	1:Z:298:ARG:C	2.63	0.41
1:Z:300:ILE:HD11	1:Z:728:THR:HA	2.02	0.41
1:a:522:ALA:HA	1:a:609:ARG:NH2	2.36	0.41
1:a:568:THR:HG23	1:a:569:ASN:N	2.36	0.41
1:b:496:ASN:HB2	1:b:498:SER:HB2	2.02	0.41
1:b:552:VAL:HG21	1:b:556:LYS:HD2	2.03	0.41
1:d:427:SER:HB3	1:d:734:ASN:HA	2.02	0.41
1:e:300:ILE:HD11	1:e:728:THR:HA	2.02	0.41
1:e:522:ALA:HA	1:e:609:ARG:NH2	2.36	0.41
1:i:287:PHE:HE2	1:i:611:VAL:HG11	1.85	0.41
1:j:485:GLN:HB2	1:j:573:THR:HG22	2.02	0.41
1:k:601:LEU:O	1:k:604:MET:HG2	2.20	0.41
1:k:716:THR:HG23	1:k:717:ASN:N	2.35	0.41
1:l:497:ASN:CB	1:l:498:SER:HA	2.45	0.41
1:m:545:GLN:NE2	1:m:721:SER:HA	2.36	0.41
1:n:287:PHE:HE2	1:n:611:VAL:HG11	1.85	0.41
1:n:287:PHE:HD2	1:n:613:LEU:HA	1.85	0.41
1:n:703:ASN:CG	1:n:704:TYR:H	2.29	0.41
1:o:429:SER:OG	1:o:431:ASP:OD1	2.18	0.41
1:o:545:GLN:NE2	1:o:721:SER:HA	2.36	0.41
1:p:311:LEU:C	1:p:311:LEU:HD12	2.46	0.41
1:p:497:ASN:CB	1:p:498:SER:HA	2.45	0.41
1:p:552:VAL:HG21	1:p:556:LYS:HD2	2.03	0.41
1:p:620:LYS:HD3	1:p:642:PRO:CD	2.49	0.41
1:p:645:GLN:C	1:p:646:ILE:HG13	2.45	0.41
1:q:499:GLU:HA	1:s:448:THR:CG2	2.50	0.41
1:q:526:HIS:CE1	1:q:531:GLU:H	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:555:GLU:OE1	1:q:555:GLU:N	2.46	0.41
1:r:288:HIS:ND1	1:r:364:PRO:HG3	2.36	0.41
1:s:287:PHE:HE2	1:s:611:VAL:HG11	1.85	0.41
1:s:288:HIS:ND1	1:s:364:PRO:HG3	2.36	0.41
1:s:545:GLN:NE2	1:s:721:SER:HA	2.36	0.41
1:s:568:THR:HG23	1:s:569:ASN:N	2.35	0.41
1:t:385:GLN:HB3	1:t:386:ALA:H	1.63	0.41
1:t:545:GLN:NE2	1:t:721:SER:HA	2.36	0.41
1:u:548:GLU:O	1:u:552:VAL:HB	2.20	0.41
1:u:716:THR:HG23	1:u:717:ASN:N	2.35	0.41
1:v:297:GLN:O	1:v:298:ARG:C	2.63	0.41
1:v:473:GLN:O	1:v:475:ARG:HG3	2.20	0.41
1:v:496:ASN:HB2	1:v:498:SER:HB2	2.02	0.41
1:w:473:GLN:O	1:w:475:ARG:HG3	2.20	0.41
1:w:568:THR:HG23	1:w:569:ASN:N	2.36	0.41
1:x:325:GLN:NE2	1:x:330:THR:HG22	2.34	0.41
1:x:388:GLY:O	1:x:389:ARG:HB2	2.20	0.41
1:x:711:ASP:O	1:x:712:PHE:C	2.64	0.41
1:y:645:GLN:C	1:y:646:ILE:HG13	2.45	0.41
1:z:375:TYR:CG	1:z:376:GLY:N	2.86	0.41
1:z:703:ASN:CG	1:z:704:TYR:H	2.29	0.41
1:1:388:GLY:O	1:1:389:ARG:HB2	2.20	0.41
1:1:452:SER:HA	1:1:457:GLN:CD	2.45	0.41
1:1:522:ALA:HA	1:1:609:ARG:NH2	2.36	0.41
1:1:601:LEU:O	1:1:604:MET:HG2	2.20	0.41
1:2:427:SER:HB3	1:2:734:ASN:HA	2.02	0.41
1:3:297:GLN:O	1:3:298:ARG:C	2.63	0.41
1:3:308:PRO:HA	1:3:684:TRP:HA	2.02	0.41
1:3:427:SER:HB3	1:3:734:ASN:HA	2.02	0.41
1:3:716:THR:HG23	1:3:717:ASN:N	2.35	0.41
1:4:287:PHE:HE2	1:4:611:VAL:HG11	1.85	0.41
1:4:522:ALA:HA	1:4:609:ARG:NH2	2.36	0.41
1:4:703:ASN:CG	1:4:704:TYR:H	2.29	0.41
1:5:311:LEU:C	1:5:311:LEU:HD12	2.46	0.41
1:5:427:SER:HB3	1:5:734:ASN:HA	2.02	0.41
1:6:473:GLN:O	1:6:475:ARG:HG3	2.20	0.41
1:7:325:GLN:NE2	1:7:330:THR:HG22	2.34	0.41
1:7:482:CYS:HB3	1:7:570:PRO:HG2	2.02	0.41
1:8:446:SER:OG	1:8:447:ARG:N	2.52	0.41
1:8:545:GLN:NE2	1:8:721:SER:HA	2.36	0.41
1:C:253:ASN:O	1:C:254:ASN:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:452:SER:HA	1:D:457:GLN:CD	2.45	0.41
1:D:482:CYS:HB3	1:D:570:PRO:HG2	2.03	0.41
1:D:545:GLN:NE2	1:D:721:SER:HA	2.36	0.41
1:D:601:LEU:O	1:D:604:MET:HG2	2.20	0.41
1:E:482:CYS:HB3	1:E:570:PRO:HG2	2.02	0.41
1:F:288:HIS:ND1	1:F:364:PRO:HG3	2.36	0.41
1:G:288:HIS:ND1	1:G:364:PRO:HG3	2.35	0.41
1:H:452:SER:HA	1:H:457:GLN:CD	2.45	0.41
1:I:253:ASN:O	1:I:254:ASN:HB2	2.21	0.41
1:I:300:ILE:HD11	1:I:728:THR:HA	2.02	0.41
1:K:253:ASN:O	1:K:254:ASN:HB2	2.21	0.41
1:L:253:ASN:O	1:L:254:ASN:HB2	2.21	0.41
1:L:297:GLN:O	1:L:298:ARG:C	2.63	0.41
1:L:552:VAL:HG21	1:L:556:LYS:HD2	2.03	0.41
1:M:244:THR:O	1:M:245:ARG:NH1	2.40	0.41
1:M:368:ASP:CG	1:M:369:VAL:H	2.27	0.41
1:M:608:ASP:HB3	1:M:609:ARG:H	1.53	0.41
1:N:502:TRP:CD1	1:N:502:TRP:H	2.36	0.41
1:O:545:GLN:NE2	1:O:721:SER:HA	2.36	0.41
1:P:244:THR:O	1:P:245:ARG:NH1	2.40	0.41
1:P:368:ASP:OD2	1:Q:665:LYS:HB3	2.21	0.41
1:Q:427:SER:HB3	1:Q:734:ASN:HA	2.02	0.41
1:R:287:PHE:HE2	1:R:611:VAL:HG11	1.85	0.41
1:R:608:ASP:HB3	1:R:609:ARG:H	1.53	0.41
1:S:548:GLU:O	1:S:552:VAL:HB	2.20	0.41
1:T:601:LEU:O	1:T:604:MET:HG2	2.20	0.41
1:U:245:ARG:HE	1:U:363:PRO:HG2	1.85	0.41
1:V:645:GLN:C	1:V:646:ILE:HG13	2.45	0.41
1:W:308:PRO:HA	1:W:684:TRP:HA	2.02	0.41
1:W:311:LEU:HD12	1:W:311:LEU:C	2.46	0.41
1:W:703:ASN:CG	1:W:704:TYR:H	2.29	0.41
1:X:388:GLY:O	1:X:389:ARG:HB2	2.20	0.41
1:X:452:SER:HA	1:X:457:GLN:CD	2.45	0.41
1:X:473:GLN:O	1:X:475:ARG:HG3	2.20	0.41
1:Y:287:PHE:HE2	1:Y:611:VAL:HG11	1.85	0.41
1:Y:522:ALA:HA	1:Y:609:ARG:NH2	2.36	0.41
1:Z:311:LEU:C	1:Z:311:LEU:HD12	2.46	0.41
1:a:526:HIS:CE1	1:a:531:GLU:H	2.39	0.41
1:b:325:GLN:NE2	1:b:330:THR:HG22	2.34	0.41
1:b:703:ASN:CG	1:b:704:TYR:H	2.29	0.41
1:c:357:ALA:HB1	1:p:441:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:448:THR:CG2	1:o:499:GLU:HA	2.50	0.41
1:c:496:ASN:H	1:p:586:GLY:HA2	1.86	0.41
1:e:311:LEU:C	1:e:311:LEU:HD12	2.46	0.41
1:f:325:GLN:NE2	1:f:330:THR:HG22	2.34	0.41
1:f:354:LEU:O	1:f:356:SER:N	2.47	0.41
1:f:427:SER:HB3	1:f:734:ASN:HA	2.02	0.41
1:h:526:HIS:CE1	1:h:531:GLU:H	2.39	0.41
1:h:601:LEU:O	1:h:604:MET:HG2	2.20	0.41
1:i:545:GLN:HA	1:i:546:GLY:HA2	1.77	0.41
1:j:427:SER:HB3	1:j:734:ASN:HA	2.02	0.41
1:k:311:LEU:C	1:k:311:LEU:HD12	2.46	0.41
1:k:552:VAL:HG21	1:k:556:LYS:HD2	2.03	0.41
1:l:545:GLN:NE2	1:l:721:SER:HA	2.36	0.41
1:m:311:LEU:C	1:m:311:LEU:HD12	2.46	0.41
1:p:287:PHE:HD2	1:p:613:LEU:HA	1.86	0.41
1:p:446:SER:OG	1:p:447:ARG:N	2.52	0.41
1:q:311:LEU:HD12	1:q:311:LEU:C	2.46	0.41
1:q:703:ASN:CG	1:q:704:TYR:H	2.29	0.41
1:r:300:ILE:HD11	1:r:728:THR:HA	2.02	0.41
1:r:368:ASP:CG	1:r:369:VAL:H	2.27	0.41
1:r:522:ALA:HA	1:r:609:ARG:NH2	2.36	0.41
1:s:522:ALA:HA	1:s:609:ARG:NH2	2.36	0.41
1:s:545:GLN:HA	1:s:546:GLY:HA2	1.77	0.41
1:t:446:SER:OG	1:t:447:ARG:N	2.52	0.41
1:t:568:THR:HG23	1:t:569:ASN:N	2.36	0.41
1:u:311:LEU:HD12	1:u:311:LEU:C	2.46	0.41
1:u:601:LEU:O	1:u:604:MET:HG2	2.20	0.41
1:v:245:ARG:HE	1:v:363:PRO:HG2	1.85	0.41
1:v:339:THR:HG22	1:v:404:ARG:HG2	2.01	0.41
1:w:526:HIS:CE1	1:w:531:GLU:H	2.39	0.41
1:x:311:LEU:C	1:x:311:LEU:HD12	2.46	0.41
1:x:473:GLN:O	1:x:475:ARG:HG3	2.20	0.41
1:y:354:LEU:O	1:y:356:SER:N	2.47	0.41
1:1:311:LEU:C	1:1:311:LEU:HD12	2.46	0.41
1:1:339:THR:HG22	1:1:404:ARG:HG2	2.01	0.41
1:2:287:PHE:HE2	1:2:611:VAL:HG11	1.85	0.41
1:2:522:ALA:HA	1:2:609:ARG:NH2	2.36	0.41
1:3:601:LEU:O	1:3:604:MET:HG2	2.20	0.41
1:5:253:ASN:O	1:5:254:ASN:HB2	2.21	0.41
1:5:314:LYS:HE3	1:5:314:LYS:HB3	1.85	0.41
1:5:470:ILE:C	1:5:472:ASP:N	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:522:ALA:HA	1:5:609:ARG:NH2	2.36	0.41
1:6:288:HIS:ND1	1:6:364:PRO:HG3	2.35	0.41
1:6:297:GLN:O	1:6:298:ARG:C	2.63	0.41
1:7:716:THR:HG23	1:7:717:ASN:N	2.35	0.41
1:8:287:PHE:HD2	1:8:613:LEU:HA	1.86	0.41
1:8:555:GLU:OE1	1:8:555:GLU:N	2.46	0.41
1:A:388:GLY:O	1:A:389:ARG:HB2	2.20	0.41
1:A:522:ALA:HA	1:A:609:ARG:NH2	2.36	0.41
1:A:526:HIS:CE1	1:A:531:GLU:H	2.39	0.41
1:B:245:ARG:HE	1:B:363:PRO:HG2	1.85	0.41
1:B:353:VAL:C	1:B:354:LEU:HD12	2.46	0.41
1:B:354:LEU:O	1:B:356:SER:N	2.47	0.41
1:B:568:THR:HG23	1:B:569:ASN:H	1.86	0.41
1:C:288:HIS:ND1	1:C:364:PRO:HG3	2.36	0.41
1:C:297:GLN:O	1:C:298:ARG:C	2.63	0.41
1:C:388:GLY:O	1:C:389:ARG:HB2	2.20	0.41
1:C:568:THR:HG23	1:C:569:ASN:N	2.35	0.41
1:D:287:PHE:HE2	1:D:611:VAL:HG11	1.85	0.41
1:D:300:ILE:HD11	1:D:728:THR:HA	2.02	0.41
1:D:545:GLN:HE21	1:D:721:SER:HA	1.86	0.41
1:D:645:GLN:C	1:D:646:ILE:HG13	2.45	0.41
1:E:253:ASN:O	1:E:254:ASN:HB2	2.21	0.41
1:E:353:VAL:C	1:E:354:LEU:HD12	2.46	0.41
1:E:388:GLY:O	1:E:389:ARG:HB2	2.20	0.41
1:E:497:ASN:CB	1:E:498:SER:HA	2.45	0.41
1:E:568:THR:HG23	1:E:569:ASN:N	2.35	0.41
1:F:245:ARG:HE	1:F:363:PRO:HG2	1.85	0.41
1:F:300:ILE:HD11	1:F:728:THR:HA	2.02	0.41
1:F:508:TYR:O	1:F:515:SER:N	2.48	0.41
1:F:568:THR:HG23	1:F:569:ASN:N	2.35	0.41
1:F:608:ASP:HB3	1:F:609:ARG:H	1.53	0.41
1:G:253:ASN:O	1:G:254:ASN:HB2	2.21	0.41
1:G:308:PRO:HA	1:G:684:TRP:HA	2.02	0.41
1:G:446:SER:OG	1:G:447:ARG:N	2.52	0.41
1:G:482:CYS:HB3	1:G:570:PRO:HG2	2.02	0.41
1:G:497:ASN:CB	1:G:498:SER:HA	2.45	0.41
1:G:715:ASP:CG	1:G:716:THR:N	2.75	0.41
1:H:552:VAL:HG21	1:H:556:LYS:HD2	2.03	0.41
1:H:568:THR:HG23	1:H:569:ASN:H	1.86	0.41
1:H:654:PRO:HB2	1:H:666:PHE:HE1	1.86	0.41
1:I:522:ALA:HA	1:I:609:ARG:NH2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:245:ARG:HE	1:J:363:PRO:HG2	1.85	0.41
1:J:354:LEU:O	1:J:356:SER:N	2.47	0.41
1:J:601:LEU:O	1:J:604:MET:HG2	2.20	0.41
1:J:703:ASN:CG	1:J:704:TYR:H	2.29	0.41
1:K:260:ILE:N	1:K:274:GLY:O	2.41	0.41
1:K:287:PHE:HE2	1:K:611:VAL:HG11	1.85	0.41
1:K:308:PRO:HA	1:K:684:TRP:HA	2.02	0.41
1:L:287:PHE:HE2	1:L:611:VAL:HG11	1.85	0.41
1:L:288:HIS:ND1	1:L:364:PRO:HG3	2.36	0.41
1:L:308:PRO:HA	1:L:684:TRP:HA	2.02	0.41
1:L:388:GLY:O	1:L:389:ARG:HB2	2.20	0.41
1:M:245:ARG:HE	1:M:363:PRO:HG2	1.85	0.41
1:M:354:LEU:O	1:M:356:SER:N	2.47	0.41
1:M:522:ALA:HA	1:M:609:ARG:NH2	2.36	0.41
1:M:601:LEU:O	1:M:604:MET:HG2	2.20	0.41
1:M:711:ASP:O	1:M:712:PHE:C	2.64	0.41
1:N:311:LEU:HD12	1:N:311:LEU:C	2.46	0.41
1:N:325:GLN:NE2	1:N:330:THR:HG22	2.34	0.41
1:N:526:HIS:CE1	1:N:531:GLU:H	2.39	0.41
1:O:253:ASN:O	1:O:254:ASN:HB2	2.21	0.41
1:O:368:ASP:CG	1:O:369:VAL:H	2.27	0.41
1:P:287:PHE:HD2	1:P:613:LEU:HA	1.86	0.41
1:P:368:ASP:CG	1:P:369:VAL:H	2.27	0.41
1:P:522:ALA:HA	1:P:609:ARG:NH2	2.36	0.41
1:P:526:HIS:CE1	1:P:531:GLU:H	2.39	0.41
1:P:545:GLN:NE2	1:P:721:SER:HA	2.36	0.41
1:P:654:PRO:HB2	1:P:666:PHE:HE1	1.86	0.41
1:Q:497:ASN:CB	1:Q:498:SER:HA	2.45	0.41
1:Q:545:GLN:HE21	1:Q:721:SER:HA	1.86	0.41
1:Q:545:GLN:NE2	1:Q:721:SER:HA	2.36	0.41
1:R:287:PHE:HD2	1:R:613:LEU:HA	1.85	0.41
1:R:446:SER:OG	1:R:447:ARG:N	2.52	0.41
1:R:526:HIS:CE1	1:R:531:GLU:H	2.39	0.41
1:R:545:GLN:NE2	1:R:721:SER:HA	2.36	0.41
1:S:253:ASN:O	1:S:254:ASN:HB2	2.21	0.41
1:S:311:LEU:HD12	1:S:311:LEU:C	2.46	0.41
1:S:353:VAL:C	1:S:354:LEU:HD12	2.46	0.41
1:S:443:TYR:HH	1:U:547:SER:HG	1.59	0.41
1:S:482:CYS:HB3	1:S:570:PRO:HG2	2.03	0.41
1:S:545:GLN:NE2	1:S:721:SER:HA	2.36	0.41
1:S:601:LEU:O	1:S:604:MET:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:654:PRO:HB2	1:S:666:PHE:HE1	1.86	0.41
1:S:716:THR:HG23	1:S:717:ASN:N	2.35	0.41
1:T:253:ASN:O	1:T:254:ASN:HB2	2.21	0.41
1:T:311:LEU:C	1:T:311:LEU:HD12	2.46	0.41
1:T:526:HIS:CE1	1:T:531:GLU:H	2.39	0.41
1:U:289:CYS:HB2	1:U:290:HIS:CE1	2.56	0.41
1:U:353:VAL:C	1:U:354:LEU:HD12	2.46	0.41
1:U:545:GLN:HE21	1:U:721:SER:HA	1.86	0.41
1:V:308:PRO:HA	1:V:684:TRP:HA	2.02	0.41
1:V:339:THR:HG22	1:V:404:ARG:HG2	2.01	0.41
1:V:545:GLN:HE21	1:V:721:SER:HA	1.86	0.41
1:W:545:GLN:NE2	1:W:721:SER:HA	2.36	0.41
1:X:287:PHE:HD2	1:X:613:LEU:HA	1.85	0.41
1:X:311:LEU:C	1:X:311:LEU:HD12	2.46	0.41
1:X:325:GLN:NE2	1:X:330:THR:HG22	2.34	0.41
1:X:368:ASP:OD2	1:Y:665:LYS:HB3	2.21	0.41
1:Y:253:ASN:O	1:Y:254:ASN:HB2	2.21	0.41
1:Y:300:ILE:HD11	1:Y:728:THR:HA	2.02	0.41
1:Y:601:LEU:O	1:Y:604:MET:HG2	2.20	0.41
1:Y:703:ASN:CG	1:Y:704:TYR:H	2.29	0.41
1:Y:711:ASP:O	1:Y:712:PHE:C	2.64	0.41
1:Z:253:ASN:O	1:Z:254:ASN:HB2	2.21	0.41
1:Z:353:VAL:C	1:Z:354:LEU:HD12	2.46	0.41
1:Z:526:HIS:CE1	1:Z:531:GLU:H	2.39	0.41
1:a:287:PHE:HD2	1:a:613:LEU:HA	1.85	0.41
1:a:502:TRP:CD1	1:a:502:TRP:H	2.36	0.41
1:b:245:ARG:HE	1:b:363:PRO:HG2	1.85	0.41
1:b:287:PHE:HE2	1:b:611:VAL:HG11	1.85	0.41
1:b:308:PRO:HA	1:b:684:TRP:HA	2.02	0.41
1:b:353:VAL:C	1:b:354:LEU:HD12	2.46	0.41
1:c:522:ALA:HA	1:c:609:ARG:NH2	2.36	0.41
1:c:568:THR:HG23	1:c:569:ASN:N	2.36	0.41
1:d:287:PHE:HE2	1:d:611:VAL:HG11	1.85	0.41
1:d:368:ASP:CG	1:d:369:VAL:H	2.27	0.41
1:d:522:ALA:HA	1:d:609:ARG:NH2	2.36	0.41
1:d:711:ASP:O	1:d:712:PHE:C	2.64	0.41
1:e:427:SER:HB3	1:e:734:ASN:HA	2.02	0.41
1:e:473:GLN:O	1:e:475:ARG:HG3	2.20	0.41
1:e:482:CYS:HB3	1:e:570:PRO:HG2	2.03	0.41
1:e:526:HIS:CE1	1:e:531:GLU:H	2.39	0.41
1:f:311:LEU:C	1:f:311:LEU:HD12	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:386:ALA:O	1:z:706:LYS:HD2	2.20	0.41
1:g:289:CYS:HB2	1:g:290:HIS:CE1	2.56	0.41
1:g:552:VAL:HG21	1:g:556:LYS:HD2	2.03	0.41
1:h:288:HIS:ND1	1:h:364:PRO:HG3	2.36	0.41
1:h:311:LEU:HD12	1:h:311:LEU:C	2.46	0.41
1:h:375:TYR:CG	1:h:376:GLY:N	2.86	0.41
1:h:470:ILE:C	1:h:472:ASP:N	2.76	0.41
1:h:545:GLN:HE21	1:h:721:SER:HA	1.86	0.41
1:h:645:GLN:C	1:h:646:ILE:HG13	2.45	0.41
1:h:654:PRO:HB2	1:h:666:PHE:HE1	1.86	0.41
1:i:289:CYS:HB2	1:i:290:HIS:CE1	2.56	0.41
1:i:492:SER:OG	1:k:458:SER:OG	2.31	0.41
1:i:552:VAL:HG21	1:i:556:LYS:HD2	2.03	0.41
1:j:287:PHE:HE2	1:j:611:VAL:HG11	1.85	0.41
1:j:452:SER:HA	1:j:457:GLN:CD	2.45	0.41
1:k:287:PHE:HD2	1:k:613:LEU:HA	1.85	0.41
1:k:388:GLY:O	1:k:389:ARG:HB2	2.20	0.41
1:k:526:HIS:CE1	1:k:531:GLU:H	2.39	0.41
1:k:545:GLN:HE21	1:k:721:SER:HA	1.86	0.41
1:k:645:GLN:C	1:k:646:ILE:HG13	2.45	0.41
1:k:654:PRO:HB2	1:k:666:PHE:HE1	1.86	0.41
1:l:311:LEU:HD12	1:l:311:LEU:C	2.46	0.41
1:l:353:VAL:C	1:l:354:LEU:HD12	2.46	0.41
1:l:354:LEU:O	1:l:356:SER:N	2.47	0.41
1:l:482:CYS:HB3	1:l:570:PRO:HG2	2.02	0.41
1:m:253:ASN:O	1:m:254:ASN:HB2	2.21	0.41
1:m:353:VAL:C	1:m:354:LEU:HD12	2.46	0.41
1:m:526:HIS:CE1	1:m:531:GLU:H	2.39	0.41
1:n:427:SER:HB3	1:n:734:ASN:HA	2.02	0.41
1:n:446:SER:OG	1:n:447:ARG:N	2.52	0.41
1:n:526:HIS:CE1	1:n:531:GLU:H	2.39	0.41
1:n:545:GLN:HA	1:n:546:GLY:HA2	1.77	0.41
1:n:545:GLN:HE21	1:n:721:SER:HA	1.86	0.41
1:o:388:GLY:O	1:o:389:ARG:HB2	2.20	0.41
1:o:522:ALA:HA	1:o:609:ARG:NH2	2.36	0.41
1:o:526:HIS:CE1	1:o:531:GLU:H	2.39	0.41
1:p:253:ASN:O	1:p:254:ASN:HB2	2.21	0.41
1:p:287:PHE:HE2	1:p:611:VAL:HG11	1.85	0.41
1:p:288:HIS:ND1	1:p:364:PRO:HG3	2.36	0.41
1:p:308:PRO:HA	1:p:684:TRP:HA	2.02	0.41
1:p:482:CYS:HB3	1:p:570:PRO:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:289:CYS:HB2	1:q:290:HIS:CE1	2.56	0.41
1:q:308:PRO:HA	1:q:684:TRP:HA	2.02	0.41
1:q:314:LYS:HE3	1:q:314:LYS:HB3	1.85	0.41
1:q:545:GLN:NE2	1:q:721:SER:HA	2.36	0.41
1:r:253:ASN:O	1:r:254:ASN:HB2	2.21	0.41
1:r:287:PHE:HE2	1:r:611:VAL:HG11	1.85	0.41
1:r:568:THR:HG23	1:r:569:ASN:H	1.86	0.41
1:r:601:LEU:O	1:r:604:MET:HG2	2.20	0.41
1:r:665:LYS:HB3	1:x:368:ASP:OD2	2.21	0.41
1:r:711:ASP:O	1:r:712:PHE:C	2.64	0.41
1:s:314:LYS:HE3	1:s:314:LYS:HB3	1.85	0.41
1:s:452:SER:HA	1:s:457:GLN:CD	2.45	0.41
1:s:552:VAL:HG21	1:s:556:LYS:HD2	2.03	0.41
1:t:287:PHE:HE2	1:t:611:VAL:HG11	1.85	0.41
1:t:526:HIS:CE1	1:t:531:GLU:H	2.39	0.41
1:u:253:ASN:O	1:u:254:ASN:HB2	2.21	0.41
1:u:287:PHE:HD2	1:u:613:LEU:HA	1.85	0.41
1:u:353:VAL:C	1:u:354:LEU:HD12	2.46	0.41
1:u:388:GLY:O	1:u:389:ARG:HB2	2.20	0.41
1:u:482:CYS:HB3	1:u:570:PRO:HG2	2.03	0.41
1:u:545:GLN:NE2	1:u:721:SER:HA	2.36	0.41
1:u:645:GLN:C	1:u:646:ILE:HG13	2.45	0.41
1:u:654:PRO:HB2	1:u:666:PHE:HE1	1.86	0.41
1:v:289:CYS:HB2	1:v:290:HIS:CE1	2.56	0.41
1:v:545:GLN:HE21	1:v:721:SER:HA	1.86	0.41
1:w:300:ILE:HD11	1:w:728:THR:HA	2.02	0.41
1:w:311:LEU:C	1:w:311:LEU:HD12	2.46	0.41
1:w:427:SER:HB3	1:w:734:ASN:HA	2.02	0.41
1:w:482:CYS:HB3	1:w:570:PRO:HG2	2.03	0.41
1:w:552:VAL:HG21	1:w:556:LYS:HD2	2.03	0.41
1:x:287:PHE:HD2	1:x:613:LEU:HA	1.86	0.41
1:x:353:VAL:C	1:x:354:LEU:HD12	2.46	0.41
1:y:289:CYS:HB2	1:y:290:HIS:CE1	2.56	0.41
1:y:308:PRO:HA	1:y:684:TRP:HA	2.02	0.41
1:y:545:GLN:HE21	1:y:721:SER:HA	1.86	0.41
1:y:703:ASN:CG	1:y:704:TYR:H	2.29	0.41
1:z:288:HIS:ND1	1:z:364:PRO:HG3	2.36	0.41
1:z:353:VAL:C	1:z:354:LEU:HD12	2.46	0.41
1:z:427:SER:HB3	1:z:734:ASN:HA	2.02	0.41
1:1:253:ASN:O	1:1:254:ASN:HB2	2.21	0.41
1:1:526:HIS:CE1	1:1:531:GLU:H	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:545:GLN:HE21	1:1:721:SER:HA	1.86	0.41
1:2:368:ASP:CG	1:2:369:VAL:H	2.27	0.41
1:2:711:ASP:O	1:2:712:PHE:C	2.64	0.41
1:3:253:ASN:O	1:3:254:ASN:HB2	2.21	0.41
1:3:287:PHE:HD2	1:3:613:LEU:HA	1.85	0.41
1:3:321:LYS:HZ2	1:3:332:ILE:HG21	1.85	0.41
1:3:368:ASP:CG	1:3:369:VAL:H	2.27	0.41
1:3:545:GLN:NE2	1:3:721:SER:HA	2.36	0.41
1:3:568:THR:HG23	1:3:569:ASN:N	2.35	0.41
1:4:289:CYS:HB2	1:4:290:HIS:CE1	2.56	0.41
1:4:446:SER:OG	1:4:447:ARG:N	2.53	0.41
1:4:526:HIS:CE1	1:4:531:GLU:H	2.39	0.41
1:4:545:GLN:HE21	1:4:721:SER:HA	1.86	0.41
1:5:287:PHE:HE1	1:5:684:TRP:HH2	1.66	0.41
1:5:545:GLN:HE21	1:5:721:SER:HA	1.86	0.41
1:5:601:LEU:O	1:5:604:MET:HG2	2.20	0.41
1:5:608:ASP:HB3	1:5:609:ARG:H	1.53	0.41
1:5:665:LYS:HB3	1:8:368:ASP:OD2	2.21	0.41
1:6:245:ARG:HE	1:6:363:PRO:HG2	1.85	0.41
1:6:253:ASN:O	1:6:254:ASN:HB2	2.21	0.41
1:6:300:ILE:HD11	1:6:728:THR:HA	2.02	0.41
1:7:253:ASN:O	1:7:254:ASN:HB2	2.21	0.41
1:7:388:GLY:O	1:7:389:ARG:HB2	2.20	0.41
1:8:368:ASP:CG	1:8:369:VAL:H	2.27	0.41
1:8:526:HIS:CE1	1:8:531:GLU:H	2.39	0.41
1:A:289:CYS:HB2	1:A:290:HIS:CE1	2.56	0.41
1:B:287:PHE:HE2	1:B:611:VAL:HG11	1.85	0.41
1:C:287:PHE:HE2	1:C:611:VAL:HG11	1.85	0.41
1:C:300:ILE:HD11	1:C:728:THR:HA	2.02	0.41
1:C:308:PRO:HA	1:C:684:TRP:HA	2.02	0.41
1:C:508:TYR:O	1:C:515:SER:N	2.48	0.41
1:C:526:HIS:CE1	1:C:531:GLU:H	2.39	0.41
1:E:427:SER:HB3	1:E:734:ASN:HA	2.02	0.41
1:E:522:ALA:HA	1:E:609:ARG:NH2	2.36	0.41
1:F:253:ASN:O	1:F:254:ASN:HB2	2.21	0.41
1:F:545:GLN:NE2	1:F:721:SER:HA	2.36	0.41
1:F:645:GLN:C	1:F:646:ILE:HG13	2.45	0.41
1:H:260:ILE:N	1:H:274:GLY:O	2.41	0.41
1:H:378:LEU:HA	1:H:378:LEU:HD23	1.75	0.41
1:I:568:THR:HG23	1:I:569:ASN:N	2.35	0.41
1:I:654:PRO:HB2	1:I:666:PHE:HE1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:522:ALA:HA	1:J:609:ARG:NH2	2.36	0.41
1:J:526:HIS:CE1	1:J:531:GLU:H	2.39	0.41
1:J:608:ASP:HB3	1:J:609:ARG:H	1.53	0.41
1:J:711:ASP:O	1:J:712:PHE:C	2.64	0.41
1:K:300:ILE:HD11	1:K:728:THR:HA	2.02	0.41
1:K:545:GLN:HE21	1:K:721:SER:HA	1.86	0.41
1:L:300:ILE:HD11	1:L:728:THR:HA	2.02	0.41
1:L:482:CYS:HB3	1:L:570:PRO:HG2	2.02	0.41
1:L:545:GLN:NE2	1:L:721:SER:HA	2.36	0.41
1:L:568:THR:HG23	1:L:569:ASN:N	2.35	0.41
1:M:703:ASN:CG	1:M:704:TYR:H	2.29	0.41
1:N:287:PHE:HD2	1:N:613:LEU:HA	1.85	0.41
1:N:289:CYS:HB2	1:N:290:HIS:CE1	2.56	0.41
1:N:353:VAL:C	1:N:354:LEU:HD12	2.46	0.41
1:O:287:PHE:HD2	1:O:613:LEU:HA	1.85	0.41
1:O:321:LYS:HZ2	1:O:332:ILE:HG21	1.85	0.41
1:P:568:THR:HG23	1:P:569:ASN:H	1.86	0.41
1:Q:288:HIS:ND1	1:Q:364:PRO:HG3	2.36	0.41
1:Q:568:THR:HG23	1:Q:569:ASN:H	1.86	0.41
1:Q:601:LEU:O	1:Q:604:MET:HG2	2.20	0.41
1:R:289:CYS:HB2	1:R:290:HIS:CE1	2.56	0.41
1:R:368:ASP:CG	1:R:369:VAL:H	2.27	0.41
1:V:253:ASN:O	1:V:254:ASN:HB2	2.21	0.41
1:V:289:CYS:HB2	1:V:290:HIS:CE1	2.56	0.41
1:W:289:CYS:HB2	1:W:290:HIS:CE1	2.56	0.41
1:W:314:LYS:HE3	1:W:314:LYS:HB3	1.85	0.41
1:W:568:THR:HG23	1:W:569:ASN:H	1.86	0.41
1:W:645:GLN:C	1:W:646:ILE:HG13	2.45	0.41
1:X:245:ARG:HE	1:X:363:PRO:HG2	1.85	0.41
1:X:353:VAL:C	1:X:354:LEU:HD12	2.46	0.41
1:X:526:HIS:CE1	1:X:531:GLU:H	2.39	0.41
1:X:552:VAL:HG21	1:X:556:LYS:HD2	2.03	0.41
1:Y:388:GLY:O	1:Y:389:ARG:HB2	2.20	0.41
1:Y:568:THR:HG23	1:Y:569:ASN:H	1.86	0.41
1:Z:365:PHE:HA	1:Z:366:PRO:HD3	1.91	0.41
1:Z:654:PRO:HB2	1:Z:666:PHE:HE1	1.86	0.41
1:a:289:CYS:HB2	1:a:290:HIS:CE1	2.56	0.41
1:a:311:LEU:HD12	1:a:311:LEU:C	2.46	0.41
1:a:325:GLN:NE2	1:a:330:THR:HG22	2.34	0.41
1:b:568:THR:HG23	1:b:569:ASN:H	1.87	0.41
1:d:287:PHE:HE1	1:d:684:TRP:HH2	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:526:HIS:CE1	1:d:531:GLU:H	2.39	0.41
1:e:552:VAL:HG21	1:e:556:LYS:HD2	2.03	0.41
1:f:452:SER:HA	1:f:457:GLN:CD	2.45	0.41
1:f:473:GLN:O	1:f:475:ARG:HG3	2.20	0.41
1:f:703:ASN:CG	1:f:704:TYR:H	2.29	0.41
1:g:311:LEU:C	1:g:311:LEU:HD12	2.46	0.41
1:g:545:GLN:HE21	1:g:721:SER:HA	1.86	0.41
1:h:287:PHE:HD2	1:h:613:LEU:HA	1.85	0.41
1:h:552:VAL:HG21	1:h:556:LYS:HD2	2.03	0.41
1:h:568:THR:HG23	1:h:569:ASN:N	2.35	0.41
1:h:658:SER:O	1:h:659:THR:OG1	2.27	0.41
1:i:311:LEU:C	1:i:311:LEU:HD12	2.46	0.41
1:i:545:GLN:HE21	1:i:721:SER:HA	1.86	0.41
1:j:311:LEU:C	1:j:311:LEU:HD12	2.46	0.41
1:j:545:GLN:NE2	1:j:721:SER:HA	2.36	0.41
1:j:601:LEU:O	1:j:604:MET:HG2	2.20	0.41
1:k:288:HIS:ND1	1:k:364:PRO:HG3	2.36	0.41
1:k:378:LEU:HD23	1:k:378:LEU:HA	1.75	0.41
1:k:379:THR:OG1	1:k:380:LEU:N	2.54	0.41
1:k:470:ILE:C	1:k:472:ASP:N	2.76	0.41
1:k:568:THR:HG23	1:k:569:ASN:N	2.36	0.41
1:m:568:THR:HG23	1:m:569:ASN:N	2.36	0.41
1:m:654:PRO:HB2	1:m:666:PHE:HE1	1.86	0.41
1:o:289:CYS:HB2	1:o:290:HIS:CE1	2.56	0.41
1:q:349:GLN:HG2	1:s:692:LYS:HD3	2.02	0.41
1:q:568:THR:HG23	1:q:569:ASN:H	1.86	0.41
1:q:645:GLN:C	1:q:646:ILE:HG13	2.45	0.41
1:r:703:ASN:CG	1:r:704:TYR:H	2.29	0.41
1:s:308:PRO:HA	1:s:684:TRP:HA	2.02	0.41
1:s:388:GLY:O	1:s:389:ARG:HB2	2.20	0.41
1:s:568:THR:HG23	1:s:569:ASN:H	1.86	0.41
1:s:654:PRO:HB2	1:s:666:PHE:HE1	1.86	0.41
1:v:311:LEU:C	1:v:311:LEU:HD12	2.46	0.41
1:v:353:VAL:C	1:v:354:LEU:HD12	2.46	0.41
1:v:388:GLY:O	1:v:389:ARG:HB2	2.20	0.41
1:v:568:THR:HG23	1:v:569:ASN:H	1.86	0.41
1:w:345:ASP:OD1	1:w:345:ASP:N	2.54	0.41
1:x:245:ARG:HE	1:x:363:PRO:HG2	1.85	0.41
1:x:552:VAL:HG21	1:x:556:LYS:HD2	2.03	0.41
1:y:253:ASN:O	1:y:254:ASN:HB2	2.21	0.41
1:y:339:THR:HG22	1:y:404:ARG:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:300:ILE:HG21	1:z:300:ILE:HD13	1.86	0.41
1:z:311:LEU:HD12	1:z:311:LEU:C	2.46	0.41
1:z:586:GLY:O	1:1:496:ASN:HA	2.21	0.41
1:1:308:PRO:HA	1:1:684:TRP:HA	2.02	0.41
1:2:354:LEU:O	1:2:356:SER:N	2.47	0.41
1:2:526:HIS:CE1	1:2:531:GLU:H	2.39	0.41
1:3:492:SER:OG	1:4:458:SER:OG	2.32	0.41
1:3:496:ASN:HB2	1:3:498:SER:HB2	2.02	0.41
1:3:645:GLN:C	1:3:646:ILE:HG13	2.45	0.41
1:4:311:LEU:C	1:4:311:LEU:HD12	2.46	0.41
1:4:427:SER:HB3	1:4:734:ASN:HA	2.02	0.41
1:5:714:VAL:HG21	1:5:718:GLY:HA2	2.01	0.41
1:6:526:HIS:CE1	1:6:531:GLU:H	2.39	0.41
1:6:608:ASP:HB3	1:6:609:ARG:H	1.53	0.41
1:6:645:GLN:C	1:6:646:ILE:HG13	2.45	0.41
1:7:353:VAL:C	1:7:354:LEU:HD12	2.46	0.41
1:7:427:SER:HB3	1:7:734:ASN:HA	2.02	0.41
1:7:522:ALA:HA	1:7:609:ARG:NH2	2.36	0.41
1:7:568:THR:HG23	1:7:569:ASN:N	2.36	0.41
1:8:244:THR:O	1:8:245:ARG:NH1	2.40	0.41
1:8:568:THR:HG23	1:8:569:ASN:H	1.86	0.41
1:A:427:SER:HB3	1:A:734:ASN:HA	2.02	0.40
1:B:522:ALA:HA	1:B:609:ARG:NH2	2.36	0.40
1:B:568:THR:HG23	1:B:569:ASN:N	2.35	0.40
1:C:482:CYS:HB3	1:C:570:PRO:HG2	2.02	0.40
1:C:545:GLN:NE2	1:C:721:SER:HA	2.36	0.40
1:D:308:PRO:HA	1:D:684:TRP:HA	2.02	0.40
1:D:496:ASN:HB2	1:D:498:SER:HB2	2.02	0.40
1:D:665:LYS:HB3	1:E:368:ASP:OD2	2.22	0.40
1:E:345:ASP:OD1	1:E:345:ASP:N	2.54	0.40
1:F:526:HIS:CE1	1:F:531:GLU:H	2.39	0.40
1:G:287:PHE:HE2	1:G:611:VAL:HG11	1.85	0.40
1:G:379:THR:OG1	1:G:380:LEU:N	2.54	0.40
1:H:289:CYS:HB2	1:H:290:HIS:CE1	2.56	0.40
1:H:365:PHE:HA	1:H:366:PRO:HD3	1.91	0.40
1:I:353:VAL:C	1:I:354:LEU:HD12	2.46	0.40
1:I:645:GLN:C	1:I:646:ILE:HG13	2.45	0.40
1:J:289:CYS:HB2	1:J:290:HIS:CE1	2.56	0.40
1:J:300:ILE:HD11	1:J:728:THR:HA	2.02	0.40
1:J:526:HIS:CE1	1:J:527:LYS:O	2.75	0.40
1:L:287:PHE:HD2	1:L:613:LEU:HA	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:289:CYS:HB2	1:M:290:HIS:CE1	2.56	0.40
1:M:353:VAL:C	1:M:354:LEU:HD12	2.46	0.40
1:O:311:LEU:C	1:O:311:LEU:HD12	2.46	0.40
1:O:496:ASN:HB2	1:O:498:SER:HB2	2.02	0.40
1:O:526:HIS:CE1	1:O:531:GLU:H	2.39	0.40
1:O:568:THR:HG23	1:O:569:ASN:N	2.36	0.40
1:O:651:THR:HA	1:O:652:PRO:HD3	1.92	0.40
1:O:703:ASN:CG	1:O:704:TYR:H	2.29	0.40
1:Q:287:PHE:HE1	1:Q:684:TRP:HH2	1.66	0.40
1:Q:353:VAL:C	1:Q:354:LEU:HD12	2.46	0.40
1:Q:714:VAL:HG21	1:Q:718:GLY:HA2	2.01	0.40
1:Q:715:ASP:CG	1:Q:716:THR:N	2.75	0.40
1:R:522:ALA:HA	1:R:609:ARG:NH2	2.36	0.40
1:S:287:PHE:HD2	1:S:613:LEU:HA	1.85	0.40
1:T:308:PRO:HA	1:T:684:TRP:HA	2.02	0.40
1:T:545:GLN:HE21	1:T:721:SER:HA	1.86	0.40
1:U:311:LEU:C	1:U:311:LEU:HD12	2.46	0.40
1:U:325:GLN:NE2	1:U:330:THR:HG22	2.34	0.40
1:U:388:GLY:O	1:U:389:ARG:HB2	2.20	0.40
1:U:568:THR:HG23	1:U:569:ASN:H	1.87	0.40
1:V:703:ASN:CG	1:V:704:TYR:H	2.29	0.40
1:Y:545:GLN:NE2	1:Y:721:SER:HA	2.36	0.40
1:Z:308:PRO:HA	1:Z:684:TRP:HA	2.02	0.40
1:a:253:ASN:O	1:a:254:ASN:HB2	2.21	0.40
1:a:353:VAL:C	1:a:354:LEU:HD12	2.46	0.40
1:a:526:HIS:CE1	1:a:527:LYS:O	2.75	0.40
1:a:620:LYS:HD3	1:a:642:PRO:CD	2.48	0.40
1:b:253:ASN:O	1:b:254:ASN:HB2	2.21	0.40
1:b:289:CYS:HB2	1:b:290:HIS:CE1	2.56	0.40
1:b:354:LEU:O	1:b:356:SER:N	2.47	0.40
1:b:522:ALA:HA	1:b:609:ARG:NH2	2.36	0.40
1:c:353:VAL:C	1:c:354:LEU:HD12	2.46	0.40
1:c:354:LEU:O	1:c:356:SER:N	2.47	0.40
1:c:654:PRO:HB2	1:c:666:PHE:HE1	1.86	0.40
1:d:289:CYS:HB2	1:d:290:HIS:CE1	2.56	0.40
1:d:354:LEU:O	1:d:356:SER:N	2.47	0.40
1:d:485:GLN:HB2	1:d:573:THR:HG22	2.02	0.40
1:e:353:VAL:C	1:e:354:LEU:HD12	2.46	0.40
1:e:388:GLY:O	1:e:389:ARG:HB2	2.20	0.40
1:g:379:THR:OG1	1:g:380:LEU:N	2.54	0.40
1:h:368:ASP:OD2	1:i:665:LYS:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:379:THR:OG1	1:h:380:LEU:N	2.54	0.40
1:h:388:GLY:O	1:h:389:ARG:HB2	2.20	0.40
1:h:545:GLN:NE2	1:h:721:SER:HA	2.36	0.40
1:i:288:HIS:ND1	1:i:364:PRO:HG3	2.36	0.40
1:i:379:THR:OG1	1:i:380:LEU:N	2.54	0.40
1:i:568:THR:HG23	1:i:569:ASN:H	1.86	0.40
1:j:289:CYS:HB2	1:j:290:HIS:CE1	2.56	0.40
1:j:473:GLN:O	1:j:475:ARG:HG3	2.20	0.40
1:j:703:ASN:CG	1:j:704:TYR:H	2.29	0.40
1:k:375:TYR:CG	1:k:376:GLY:N	2.86	0.40
1:k:545:GLN:NE2	1:k:721:SER:HA	2.36	0.40
1:l:288:HIS:ND1	1:l:364:PRO:HG3	2.36	0.40
1:l:427:SER:HB3	1:l:734:ASN:HA	2.03	0.40
1:l:526:HIS:CE1	1:l:531:GLU:H	2.39	0.40
1:l:601:LEU:O	1:l:604:MET:HG2	2.20	0.40
1:l:711:ASP:O	1:l:712:PHE:C	2.64	0.40
1:m:308:PRO:HA	1:m:684:TRP:HA	2.02	0.40
1:m:485:GLN:HB2	1:m:573:THR:HG22	2.02	0.40
1:n:289:CYS:HB2	1:n:290:HIS:CE1	2.56	0.40
1:n:311:LEU:C	1:n:311:LEU:HD12	2.46	0.40
1:n:345:ASP:OD1	1:n:345:ASP:N	2.54	0.40
1:n:545:GLN:NE2	1:n:721:SER:HA	2.36	0.40
1:n:568:THR:HG23	1:n:569:ASN:H	1.86	0.40
1:n:568:THR:HG23	1:n:569:ASN:N	2.35	0.40
1:o:345:ASP:N	1:o:345:ASP:OD1	2.54	0.40
1:o:545:GLN:HE21	1:o:721:SER:HA	1.86	0.40
1:p:379:THR:OG1	1:p:380:LEU:N	2.54	0.40
1:p:715:ASP:CG	1:p:716:THR:N	2.75	0.40
1:q:447:ARG:NH1	1:q:450:THR:HG22	2.36	0.40
1:r:651:THR:HA	1:r:652:PRO:HD3	1.92	0.40
1:s:289:CYS:HB2	1:s:290:HIS:CE1	2.56	0.40
1:s:353:VAL:C	1:s:354:LEU:HD12	2.46	0.40
1:s:545:GLN:HE21	1:s:721:SER:HA	1.86	0.40
1:t:287:PHE:HD2	1:t:613:LEU:HA	1.86	0.40
1:t:289:CYS:HB2	1:t:290:HIS:CE1	2.56	0.40
1:t:311:LEU:C	1:t:311:LEU:HD12	2.46	0.40
1:t:368:ASP:CG	1:t:369:VAL:H	2.27	0.40
1:t:522:ALA:HA	1:t:609:ARG:NH2	2.36	0.40
1:v:526:HIS:CE1	1:v:527:LYS:O	2.75	0.40
1:v:552:VAL:HG21	1:v:556:LYS:HD2	2.03	0.40
1:w:353:VAL:C	1:w:354:LEU:HD12	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:526:HIS:CE1	1:x:531:GLU:H	2.39	0.40
1:z:482:CYS:HB3	1:z:570:PRO:HG2	2.03	0.40
1:z:526:HIS:CE1	1:z:531:GLU:H	2.39	0.40
1:2:289:CYS:HB2	1:2:290:HIS:CE1	2.56	0.40
1:2:601:LEU:O	1:2:604:MET:HG2	2.20	0.40
1:3:311:LEU:C	1:3:311:LEU:HD12	2.46	0.40
1:4:568:THR:HG23	1:4:569:ASN:H	1.86	0.40
1:5:568:THR:HG23	1:5:569:ASN:H	1.86	0.40
1:5:654:PRO:HB2	1:5:666:PHE:HE1	1.86	0.40
1:5:715:ASP:CG	1:5:716:THR:N	2.75	0.40
1:6:287:PHE:HD2	1:6:613:LEU:HA	1.85	0.40
1:6:545:GLN:NE2	1:6:721:SER:HA	2.36	0.40
1:7:345:ASP:OD1	1:7:345:ASP:N	2.55	0.40
1:7:497:ASN:CB	1:7:498:SER:HA	2.45	0.40
1:7:645:GLN:C	1:7:646:ILE:HG13	2.45	0.40
1:8:522:ALA:HA	1:8:609:ARG:NH2	2.36	0.40
1:A:379:THR:OG1	1:A:380:LEU:N	2.54	0.40
1:A:545:GLN:HE21	1:A:721:SER:HA	1.86	0.40
1:A:552:VAL:HG21	1:A:556:LYS:HD2	2.03	0.40
1:A:568:THR:HG23	1:A:569:ASN:H	1.86	0.40
1:B:289:CYS:HB2	1:B:290:HIS:CE1	2.56	0.40
1:B:482:CYS:HB3	1:B:570:PRO:HG2	2.02	0.40
1:C:526:HIS:CE1	1:C:527:LYS:O	2.75	0.40
1:D:300:ILE:HD13	1:D:300:ILE:HG21	1.86	0.40
1:D:365:PHE:HA	1:D:366:PRO:HD3	1.91	0.40
1:D:388:GLY:O	1:D:389:ARG:HB2	2.20	0.40
1:D:568:THR:HG23	1:D:569:ASN:H	1.87	0.40
1:D:703:ASN:CG	1:D:704:TYR:H	2.29	0.40
1:E:287:PHE:HD2	1:E:613:LEU:HA	1.85	0.40
1:E:645:GLN:C	1:E:646:ILE:HG13	2.45	0.40
1:F:287:PHE:HD2	1:F:613:LEU:HA	1.85	0.40
1:G:496:ASN:HB2	1:G:498:SER:HB2	2.02	0.40
1:H:287:PHE:HE1	1:H:684:TRP:HH2	1.66	0.40
1:H:353:VAL:C	1:H:354:LEU:HD12	2.46	0.40
1:H:388:GLY:O	1:H:389:ARG:HB2	2.20	0.40
1:H:545:GLN:HE21	1:H:721:SER:HA	1.86	0.40
1:I:427:SER:HB3	1:I:734:ASN:HA	2.02	0.40
1:I:703:ASN:CG	1:I:704:TYR:H	2.29	0.40
1:J:378:LEU:HD23	1:J:378:LEU:HA	1.75	0.40
1:J:378:LEU:C	1:J:379:THR:HG1	2.24	0.40
1:J:568:THR:HG23	1:J:569:ASN:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:496:ASN:HB2	1:K:498:SER:HB2	2.02	0.40
1:K:526:HIS:CE1	1:K:527:LYS:O	2.75	0.40
1:K:568:THR:HG23	1:K:569:ASN:H	1.86	0.40
1:K:665:LYS:HB3	1:7:368:ASP:OD2	2.22	0.40
1:K:703:ASN:CG	1:K:704:TYR:H	2.29	0.40
1:L:526:HIS:CE1	1:L:527:LYS:O	2.75	0.40
1:L:526:HIS:CE1	1:L:531:GLU:H	2.39	0.40
1:M:253:ASN:O	1:M:254:ASN:HB2	2.21	0.40
1:M:300:ILE:HG21	1:M:300:ILE:HD13	1.86	0.40
1:M:300:ILE:HD11	1:M:728:THR:HA	2.02	0.40
1:M:526:HIS:CE1	1:M:527:LYS:O	2.75	0.40
1:M:526:HIS:CE1	1:M:531:GLU:H	2.39	0.40
1:N:253:ASN:O	1:N:254:ASN:HB2	2.21	0.40
1:N:526:HIS:CE1	1:N:527:LYS:O	2.75	0.40
1:N:711:ASP:O	1:N:712:PHE:C	2.64	0.40
1:O:665:LYS:HB3	1:d:368:ASP:OD2	2.21	0.40
1:P:545:GLN:HE21	1:P:721:SER:HA	1.86	0.40
1:P:568:THR:HG23	1:P:569:ASN:N	2.36	0.40
1:Q:654:PRO:HB2	1:Q:666:PHE:HE1	1.86	0.40
1:R:311:LEU:C	1:R:311:LEU:HD12	2.46	0.40
1:R:345:ASP:OD1	1:R:345:ASP:N	2.54	0.40
1:S:288:HIS:ND1	1:S:364:PRO:HG3	2.36	0.40
1:S:388:GLY:O	1:S:389:ARG:HB2	2.20	0.40
1:T:325:GLN:NE2	1:T:330:THR:HG22	2.34	0.40
1:U:526:HIS:CE1	1:U:527:LYS:O	2.75	0.40
1:W:288:HIS:ND1	1:W:364:PRO:HG3	2.36	0.40
1:W:427:SER:HB3	1:W:734:ASN:HA	2.02	0.40
1:W:446:SER:OG	1:W:447:ARG:N	2.52	0.40
1:W:545:GLN:HE21	1:W:721:SER:HA	1.86	0.40
1:X:645:GLN:C	1:X:646:ILE:HG13	2.45	0.40
1:Y:526:HIS:CE1	1:Y:531:GLU:H	2.39	0.40
1:Y:552:VAL:HG21	1:Y:556:LYS:HD2	2.03	0.40
1:Z:568:THR:HG23	1:Z:569:ASN:N	2.35	0.40
1:a:297:GLN:O	1:a:298:ARG:C	2.63	0.40
1:a:711:ASP:O	1:a:712:PHE:C	2.64	0.40
1:b:287:PHE:HD2	1:b:613:LEU:HA	1.85	0.40
1:b:485:GLN:HB2	1:b:573:THR:HG22	2.01	0.40
1:c:379:THR:OG1	1:c:380:LEU:N	2.54	0.40
1:c:496:ASN:HB2	1:c:498:SER:HB2	2.02	0.40
1:c:645:GLN:C	1:c:646:ILE:HG13	2.45	0.40
1:d:353:VAL:C	1:d:354:LEU:HD12	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:545:GLN:NE2	1:e:721:SER:HA	2.36	0.40
1:f:287:PHE:HE2	1:f:611:VAL:HG11	1.85	0.40
1:f:601:LEU:O	1:f:604:MET:HG2	2.20	0.40
1:f:665:LYS:HB3	1:z:368:ASP:OD2	2.21	0.40
1:g:526:HIS:CE1	1:g:531:GLU:H	2.39	0.40
1:g:665:LYS:HB3	1:k:368:ASP:OD2	2.22	0.40
1:h:297:GLN:O	1:h:298:ARG:C	2.63	0.40
1:h:568:THR:HG23	1:h:569:ASN:H	1.86	0.40
1:i:526:HIS:CE1	1:i:527:LYS:O	2.75	0.40
1:i:526:HIS:CE1	1:i:531:GLU:H	2.39	0.40
1:i:545:GLN:NE2	1:i:721:SER:HA	2.36	0.40
1:j:368:ASP:OD2	1:x:665:LYS:HB3	2.21	0.40
1:m:289:CYS:HB2	1:m:290:HIS:CE1	2.56	0.40
1:m:703:ASN:CG	1:m:704:TYR:H	2.29	0.40
1:n:482:CYS:HB3	1:n:570:PRO:HG2	2.03	0.40
1:n:654:PRO:HB2	1:n:666:PHE:HE1	1.86	0.40
1:o:379:THR:OG1	1:o:380:LEU:N	2.54	0.40
1:o:427:SER:HB3	1:o:734:ASN:HA	2.02	0.40
1:p:496:ASN:HB2	1:p:498:SER:HB2	2.02	0.40
1:q:288:HIS:ND1	1:q:364:PRO:HG3	2.35	0.40
1:r:365:PHE:HA	1:r:366:PRO:HD3	1.91	0.40
1:r:388:GLY:O	1:r:389:ARG:HB2	2.20	0.40
1:r:526:HIS:CE1	1:r:531:GLU:H	2.39	0.40
1:u:288:HIS:ND1	1:u:364:PRO:HG3	2.35	0.40
1:u:496:ASN:HB2	1:u:498:SER:HB2	2.02	0.40
1:u:703:ASN:CG	1:u:704:TYR:H	2.29	0.40
1:w:388:GLY:O	1:w:389:ARG:HB2	2.20	0.40
1:w:545:GLN:NE2	1:w:721:SER:HA	2.36	0.40
1:x:645:GLN:C	1:x:646:ILE:HG13	2.45	0.40
1:y:378:LEU:HA	1:y:378:LEU:HD23	1.75	0.40
1:z:601:LEU:O	1:z:604:MET:HG2	2.20	0.40
1:1:260:ILE:N	1:1:274:GLY:O	2.41	0.40
1:2:353:VAL:C	1:2:354:LEU:HD12	2.46	0.40
1:3:526:HIS:CE1	1:3:531:GLU:H	2.39	0.40
1:3:703:ASN:CG	1:3:704:TYR:H	2.29	0.40
1:4:345:ASP:OD1	1:4:345:ASP:N	2.54	0.40
1:4:482:CYS:HB3	1:4:570:PRO:HG2	2.02	0.40
1:4:545:GLN:NE2	1:4:721:SER:HA	2.36	0.40
1:4:568:THR:HG23	1:4:569:ASN:N	2.35	0.40
1:5:288:HIS:ND1	1:5:364:PRO:HG3	2.36	0.40
1:5:297:GLN:O	1:5:298:ARG:C	2.63	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:345:ASP:N	1:5:345:ASP:OD1	2.54	0.40
1:5:353:VAL:C	1:5:354:LEU:HD12	2.46	0.40
1:5:545:GLN:NE2	1:5:721:SER:HA	2.36	0.40
1:6:568:THR:HG23	1:6:569:ASN:N	2.36	0.40
1:7:711:ASP:O	1:7:712:PHE:C	2.64	0.40
1:8:300:ILE:HD11	1:8:728:THR:HA	2.02	0.40
1:8:545:GLN:HE21	1:8:721:SER:HA	1.86	0.40
1:8:654:PRO:HB2	1:8:666:PHE:HE1	1.86	0.40
1:A:311:LEU:HD12	1:A:311:LEU:C	2.46	0.40
1:A:345:ASP:N	1:A:345:ASP:OD1	2.54	0.40
1:B:253:ASN:O	1:B:254:ASN:HB2	2.21	0.40
1:B:287:PHE:HD2	1:B:613:LEU:HA	1.85	0.40
1:B:485:GLN:HB2	1:B:573:THR:HG22	2.02	0.40
1:B:545:GLN:NE2	1:B:721:SER:HA	2.36	0.40
1:B:712:PHE:CE2	1:I:696:PRO:HD3	2.56	0.40
1:C:287:PHE:HD2	1:C:613:LEU:HA	1.85	0.40
1:C:496:ASN:HB2	1:C:498:SER:HB2	2.02	0.40
1:C:568:THR:HG23	1:C:569:ASN:H	1.86	0.40
1:D:289:CYS:HB2	1:D:290:HIS:CE1	2.56	0.40
1:D:526:HIS:CE1	1:D:527:LYS:O	2.75	0.40
1:E:711:ASP:O	1:E:712:PHE:C	2.64	0.40
1:H:287:PHE:HD2	1:H:613:LEU:HA	1.86	0.40
1:H:308:PRO:HA	1:H:684:TRP:HA	2.02	0.40
1:H:526:HIS:CE1	1:H:531:GLU:H	2.39	0.40
1:H:545:GLN:HA	1:H:546:GLY:HA2	1.77	0.40
1:I:311:LEU:C	1:I:311:LEU:HD12	2.46	0.40
1:I:496:ASN:HB2	1:I:498:SER:HB2	2.02	0.40
1:J:353:VAL:C	1:J:354:LEU:HD12	2.46	0.40
1:J:368:ASP:CG	1:J:369:VAL:H	2.27	0.40
1:K:245:ARG:HE	1:K:363:PRO:HG2	1.85	0.40
1:K:289:CYS:HB2	1:K:290:HIS:CE1	2.56	0.40
1:K:311:LEU:C	1:K:311:LEU:HD12	2.46	0.40
1:L:568:THR:HG23	1:L:569:ASN:H	1.86	0.40
1:N:620:LYS:HD3	1:N:642:PRO:CD	2.49	0.40
1:N:654:PRO:HB2	1:N:666:PHE:HE1	1.86	0.40
1:O:645:GLN:C	1:O:646:ILE:HG13	2.45	0.40
1:O:711:ASP:O	1:O:712:PHE:C	2.64	0.40
1:P:353:VAL:C	1:P:354:LEU:HD12	2.46	0.40
1:P:601:LEU:O	1:P:604:MET:HG2	2.20	0.40
1:P:711:ASP:O	1:P:712:PHE:C	2.64	0.40
1:Q:345:ASP:N	1:Q:345:ASP:OD1	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:353:VAL:C	1:R:354:LEU:HD12	2.46	0.40
1:R:427:SER:HB3	1:R:734:ASN:HA	2.02	0.40
1:R:526:HIS:CE1	1:R:527:LYS:O	2.75	0.40
1:S:446:SER:OG	1:S:447:ARG:N	2.52	0.40
1:S:496:ASN:HB2	1:S:498:SER:HB2	2.02	0.40
1:S:545:GLN:HE21	1:S:721:SER:HA	1.86	0.40
1:U:345:ASP:N	1:U:345:ASP:OD1	2.54	0.40
1:V:439:ASP:N	1:V:439:ASP:OD1	2.55	0.40
1:W:620:LYS:HD3	1:W:642:PRO:CD	2.49	0.40
1:X:326:ASN:O	1:X:329:THR:OG1	2.19	0.40
1:X:345:ASP:N	1:X:345:ASP:OD1	2.54	0.40
1:X:351:PRO:O	1:X:375:TYR:OH	2.40	0.40
1:Y:651:THR:HA	1:Y:652:PRO:HD3	1.92	0.40
1:Z:289:CYS:HB2	1:Z:290:HIS:CE1	2.56	0.40
1:Z:458:SER:OG	1:4:492:SER:OG	2.32	0.40
1:Z:703:ASN:CG	1:Z:704:TYR:H	2.29	0.40
1:a:427:SER:HB3	1:a:734:ASN:HA	2.02	0.40
1:b:482:CYS:HB3	1:b:570:PRO:HG2	2.03	0.40
1:b:545:GLN:NE2	1:b:721:SER:HA	2.36	0.40
1:b:568:THR:HG23	1:b:569:ASN:N	2.35	0.40
1:c:245:ARG:HE	1:c:363:PRO:HG2	1.85	0.40
1:c:311:LEU:C	1:c:311:LEU:HD12	2.46	0.40
1:c:427:SER:HB3	1:c:734:ASN:HA	2.02	0.40
1:c:498:SER:C	1:p:449:ASN:HB2	2.46	0.40
1:c:581:THR:OG1	1:c:592:THR:O	2.32	0.40
1:d:545:GLN:HE21	1:d:721:SER:HA	1.86	0.40
1:d:601:LEU:O	1:d:604:MET:HG2	2.20	0.40
1:e:711:ASP:O	1:e:712:PHE:C	2.64	0.40
1:f:289:CYS:HB2	1:f:290:HIS:CE1	2.56	0.40
1:f:353:VAL:C	1:f:354:LEU:HD12	2.46	0.40
1:f:545:GLN:NE2	1:f:721:SER:HA	2.36	0.40
1:f:568:THR:HG23	1:f:569:ASN:H	1.86	0.40
1:g:288:HIS:ND1	1:g:364:PRO:HG3	2.36	0.40
1:g:526:HIS:CE1	1:g:527:LYS:O	2.75	0.40
1:g:545:GLN:HA	1:g:546:GLY:HA2	1.77	0.40
1:g:545:GLN:NE2	1:g:721:SER:HA	2.36	0.40
1:g:568:THR:HG23	1:g:569:ASN:H	1.87	0.40
1:g:645:GLN:C	1:g:646:ILE:HG13	2.45	0.40
1:i:711:ASP:O	1:i:712:PHE:C	2.64	0.40
1:j:353:VAL:C	1:j:354:LEU:HD12	2.46	0.40
1:j:545:GLN:HE21	1:j:721:SER:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:568:THR:HG23	1:j:569:ASN:H	1.86	0.40
1:k:297:GLN:O	1:k:298:ARG:C	2.63	0.40
1:k:568:THR:HG23	1:k:569:ASN:H	1.86	0.40
1:n:244:THR:O	1:n:245:ARG:NH1	2.40	0.40
1:n:288:HIS:ND1	1:n:364:PRO:HG3	2.36	0.40
1:n:353:VAL:C	1:n:354:LEU:HD12	2.46	0.40
1:o:311:LEU:HD12	1:o:311:LEU:C	2.46	0.40
1:o:552:VAL:HG21	1:o:556:LYS:HD2	2.03	0.40
1:p:289:CYS:HB2	1:p:290:HIS:CE1	2.56	0.40
1:p:522:ALA:HA	1:p:609:ARG:NH2	2.36	0.40
1:q:427:SER:HB3	1:q:734:ASN:HA	2.02	0.40
1:q:545:GLN:HE21	1:q:721:SER:HA	1.86	0.40
1:r:545:GLN:NE2	1:r:721:SER:HA	2.36	0.40
1:s:253:ASN:O	1:s:254:ASN:HB2	2.21	0.40
1:s:260:ILE:N	1:s:274:GLY:O	2.41	0.40
1:t:427:SER:HB3	1:t:734:ASN:HA	2.02	0.40
1:t:468:SER:OG	1:t:469:ASP:N	2.55	0.40
1:u:289:CYS:HB2	1:u:290:HIS:CE1	2.56	0.40
1:u:443:TYR:HH	1:v:547:SER:HG	1.60	0.40
1:u:522:ALA:HA	1:u:609:ARG:NH2	2.36	0.40
1:v:703:ASN:CG	1:v:704:TYR:H	2.29	0.40
1:w:244:THR:O	1:w:245:ARG:NH1	2.40	0.40
1:x:345:ASP:N	1:x:345:ASP:OD1	2.54	0.40
1:x:351:PRO:O	1:x:375:TYR:OH	2.40	0.40
1:x:654:PRO:HB2	1:x:666:PHE:HE1	1.86	0.40
1:y:439:ASP:N	1:y:439:ASP:OD1	2.55	0.40
1:z:545:GLN:HE21	1:z:721:SER:HA	1.86	0.40
1:z:711:ASP:O	1:z:712:PHE:C	2.64	0.40
1:1:325:GLN:NE2	1:1:330:THR:HG22	2.34	0.40
1:1:552:VAL:HG21	1:1:556:LYS:HD2	2.03	0.40
1:2:545:GLN:HE21	1:2:721:SER:HA	1.86	0.40
1:3:711:ASP:O	1:3:712:PHE:C	2.64	0.40
1:4:288:HIS:ND1	1:4:364:PRO:HG3	2.36	0.40
1:4:353:VAL:C	1:4:354:LEU:HD12	2.46	0.40
1:4:654:PRO:HB2	1:4:666:PHE:HE1	1.86	0.40
1:5:289:CYS:HB2	1:5:290:HIS:CE1	2.56	0.40
1:5:552:VAL:HG21	1:5:556:LYS:HD2	2.03	0.40
1:6:287:PHE:HE1	1:6:684:TRP:HH2	1.66	0.40
1:7:300:ILE:HD11	1:7:728:THR:HA	2.02	0.40
1:8:314:LYS:HE3	1:8:314:LYS:HB3	1.85	0.40
1:8:447:ARG:NH1	1:8:450:THR:HG22	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:568:THR:HG23	1:8:569:ASN:N	2.36	0.40
1:B:300:ILE:HD13	1:B:300:ILE:HG21	1.86	0.40
1:C:345:ASP:N	1:C:345:ASP:OD1	2.54	0.40
1:C:545:GLN:HE21	1:C:721:SER:HA	1.86	0.40
1:D:311:LEU:C	1:D:311:LEU:HD12	2.46	0.40
1:D:654:PRO:HB2	1:D:666:PHE:HE1	1.86	0.40
1:E:311:LEU:HD12	1:E:311:LEU:C	2.46	0.40
1:E:468:SER:OG	1:E:469:ASP:N	2.55	0.40
1:F:289:CYS:HB2	1:F:290:HIS:CE1	2.56	0.40
1:F:452:SER:CB	1:F:453:GLY:HA3	2.49	0.40
1:F:654:PRO:HB2	1:F:666:PHE:HE1	1.86	0.40
1:G:289:CYS:HB2	1:G:290:HIS:CE1	2.56	0.40
1:G:300:ILE:HD13	1:G:300:ILE:HG21	1.86	0.40
1:G:353:VAL:C	1:G:354:LEU:HD12	2.46	0.40
1:G:468:SER:OG	1:G:469:ASP:N	2.55	0.40
1:G:522:ALA:HA	1:G:609:ARG:NH2	2.36	0.40
1:H:253:ASN:O	1:H:254:ASN:HB2	2.21	0.40
1:I:497:ASN:CB	1:I:498:SER:HA	2.45	0.40
1:J:253:ASN:O	1:J:254:ASN:HB2	2.21	0.40
1:J:351:PRO:O	1:J:375:TYR:OH	2.40	0.40
1:K:365:PHE:HA	1:K:366:PRO:HD3	1.91	0.40
1:K:388:GLY:O	1:K:389:ARG:HB2	2.20	0.40
1:K:654:PRO:HB2	1:K:666:PHE:HE1	1.86	0.40
1:L:468:SER:OG	1:L:469:ASP:N	2.55	0.40
1:L:496:ASN:HB2	1:L:498:SER:HB2	2.02	0.40
1:M:351:PRO:O	1:M:375:TYR:OH	2.40	0.40
1:M:368:ASP:OD2	1:N:665:LYS:HB3	2.22	0.40
1:M:378:LEU:C	1:M:379:THR:HG1	2.24	0.40
1:N:368:ASP:OD2	1:m:665:LYS:HB3	2.21	0.40
1:N:427:SER:HB3	1:N:734:ASN:HA	2.02	0.40
1:N:545:GLN:HA	1:N:546:GLY:HA2	1.77	0.40
1:P:300:ILE:HD11	1:P:728:THR:HA	2.02	0.40
1:Q:289:CYS:HB2	1:Q:290:HIS:CE1	2.56	0.40
1:Q:297:GLN:O	1:Q:298:ARG:C	2.63	0.40
1:Q:552:VAL:HG21	1:Q:556:LYS:HD2	2.03	0.40
1:Q:711:ASP:O	1:Q:712:PHE:C	2.64	0.40
1:R:385:GLN:HB3	1:R:386:ALA:H	1.63	0.40
1:R:468:SER:OG	1:R:469:ASP:N	2.55	0.40
1:S:289:CYS:HB2	1:S:290:HIS:CE1	2.56	0.40
1:S:522:ALA:HA	1:S:609:ARG:NH2	2.36	0.40
1:S:703:ASN:CG	1:S:704:TYR:H	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:552:VAL:HG21	1:T:556:LYS:HD2	2.03	0.40
1:U:354:LEU:O	1:U:356:SER:N	2.47	0.40
1:U:378:LEU:O	1:U:379:THR:OG1	2.26	0.40
1:U:468:SER:OG	1:U:469:ASP:N	2.55	0.40
1:U:545:GLN:NE2	1:U:721:SER:HA	2.36	0.40
1:U:552:VAL:HG21	1:U:556:LYS:HD2	2.03	0.40
1:U:703:ASN:CG	1:U:704:TYR:H	2.29	0.40
1:V:545:GLN:NE2	1:V:721:SER:HA	2.36	0.40
1:W:379:THR:OG1	1:W:380:LEU:N	2.54	0.40
1:X:547:SER:HG	1:e:443:TYR:HH	1.58	0.40
1:X:654:PRO:HB2	1:X:666:PHE:HE1	1.86	0.40
1:X:665:LYS:HB3	1:f:368:ASP:OD2	2.22	0.40
1:Z:485:GLN:HB2	1:Z:573:THR:HG22	2.02	0.40
1:a:601:LEU:O	1:a:604:MET:HG2	2.20	0.40
1:e:289:CYS:HB2	1:e:290:HIS:CE1	2.56	0.40
1:e:368:ASP:OD2	1:h:665:LYS:HB3	2.21	0.40
1:e:703:ASN:CG	1:e:704:TYR:H	2.29	0.40
1:f:447:ARG:NH1	1:f:450:THR:HG22	2.36	0.40
1:f:545:GLN:HE21	1:f:721:SER:HA	1.86	0.40
1:g:378:LEU:O	1:g:379:THR:OG1	2.26	0.40
1:g:711:ASP:O	1:g:712:PHE:C	2.64	0.40
1:h:342:VAL:HG13	1:h:343:PHE:N	2.31	0.40
1:j:439:ASP:N	1:j:439:ASP:OD1	2.55	0.40
1:j:552:VAL:HG21	1:j:556:LYS:HD2	2.03	0.40
1:k:289:CYS:HB2	1:k:290:HIS:CE1	2.56	0.40
1:k:342:VAL:HG13	1:k:343:PHE:N	2.31	0.40
1:k:620:LYS:HD3	1:k:642:PRO:CD	2.49	0.40
1:k:658:SER:O	1:k:659:THR:OG1	2.27	0.40
1:l:245:ARG:HE	1:l:363:PRO:HG2	1.85	0.40
1:o:568:THR:HG23	1:o:569:ASN:H	1.86	0.40
1:o:692:LYS:HD3	1:p:349:GLN:HG2	2.04	0.40
1:p:245:ARG:HE	1:p:363:PRO:HG2	1.85	0.40
1:p:468:SER:OG	1:p:469:ASP:N	2.55	0.40
1:p:526:HIS:CE1	1:p:531:GLU:H	2.39	0.40
1:p:654:PRO:HB2	1:p:666:PHE:HE1	1.86	0.40
1:q:379:THR:OG1	1:q:380:LEU:N	2.54	0.40
1:q:446:SER:OG	1:q:447:ARG:N	2.52	0.40
1:q:620:LYS:HD3	1:q:642:PRO:CD	2.49	0.40
1:r:552:VAL:HG21	1:r:556:LYS:HD2	2.03	0.40
1:s:287:PHE:HD2	1:s:613:LEU:HA	1.85	0.40
1:s:496:ASN:HB2	1:s:498:SER:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:526:HIS:CE1	1:s:531:GLU:H	2.39	0.40
1:t:353:VAL:C	1:t:354:LEU:HD12	2.46	0.40
1:t:526:HIS:CE1	1:t:527:LYS:O	2.75	0.40
1:t:568:THR:HG23	1:t:569:ASN:H	1.86	0.40
1:t:665:LYS:HB3	1:y:368:ASP:OD2	2.21	0.40
1:u:354:LEU:O	1:u:356:SER:N	2.47	0.40
1:u:545:GLN:HE21	1:u:721:SER:HA	1.86	0.40
1:v:288:HIS:ND1	1:v:364:PRO:HG3	2.36	0.40
1:v:325:GLN:NE2	1:v:330:THR:HG22	2.34	0.40
1:v:345:ASP:N	1:v:345:ASP:OD1	2.55	0.40
1:v:375:TYR:CG	1:v:376:GLY:N	2.86	0.40
1:v:452:SER:CB	1:v:453:GLY:HA3	2.49	0.40
1:v:468:SER:OG	1:v:469:ASP:N	2.55	0.40
1:v:665:LYS:HB3	1:1:368:ASP:OD2	2.22	0.40
1:w:711:ASP:O	1:w:712:PHE:C	2.64	0.40
1:x:568:THR:HG23	1:x:569:ASN:H	1.86	0.40
1:y:311:LEU:HD12	1:y:311:LEU:C	2.46	0.40
1:y:526:HIS:CE1	1:y:527:LYS:O	2.75	0.40
1:2:287:PHE:HE1	1:2:684:TRP:HH2	1.66	0.40
1:2:485:GLN:HB2	1:2:573:THR:HG22	2.02	0.40
1:2:654:PRO:HB2	1:2:666:PHE:HE1	1.86	0.40
1:3:289:CYS:HB2	1:3:290:HIS:CE1	2.56	0.40
1:4:245:ARG:HE	1:4:363:PRO:HG2	1.85	0.40
1:6:289:CYS:HB2	1:6:290:HIS:CE1	2.56	0.40
1:6:485:GLN:HB2	1:6:573:THR:HG22	2.02	0.40
1:6:522:ALA:HA	1:6:609:ARG:NH2	2.36	0.40
1:7:288:HIS:ND1	1:7:364:PRO:HG3	2.36	0.40
1:7:468:SER:OG	1:7:469:ASP:N	2.55	0.40
1:8:353:VAL:C	1:8:354:LEU:HD12	2.46	0.40
1:8:439:ASP:N	1:8:439:ASP:OD1	2.55	0.40
1:8:601:LEU:O	1:8:604:MET:HG2	2.20	0.40
1:B:452:SER:CB	1:B:453:GLY:HA3	2.49	0.40
1:C:468:SER:OG	1:C:469:ASP:N	2.55	0.40
1:D:245:ARG:HE	1:D:363:PRO:HG2	1.85	0.40
1:E:300:ILE:HD11	1:E:728:THR:HA	2.02	0.40
1:E:437:LEU:HD23	1:E:437:LEU:HA	1.92	0.40
1:E:526:HIS:CE1	1:E:527:LYS:O	2.75	0.40
1:F:287:PHE:HE1	1:F:684:TRP:HH2	1.66	0.40
1:F:314:LYS:HB3	1:F:314:LYS:HE3	1.85	0.40
1:G:245:ARG:HE	1:G:363:PRO:HG2	1.85	0.40
1:G:342:VAL:HG13	1:G:343:PHE:N	2.31	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:654:PRO:HB2	1:G:666:PHE:HE1	1.86	0.40
1:H:311:LEU:HD12	1:H:311:LEU:C	2.46	0.40
1:H:314:LYS:HE3	1:H:314:LYS:HB3	1.85	0.40
1:H:496:ASN:HB2	1:H:498:SER:HB2	2.02	0.40
1:I:245:ARG:HE	1:I:363:PRO:HG2	1.85	0.40
1:I:354:LEU:O	1:I:356:SER:N	2.47	0.40
1:I:526:HIS:CE1	1:I:527:LYS:O	2.75	0.40
1:I:568:THR:HG23	1:I:569:ASN:H	1.86	0.40
1:I:648:ILE:HD12	1:I:648:ILE:HG23	1.88	0.40
1:J:368:ASP:OD2	1:a:665:LYS:HB3	2.22	0.40
1:K:353:VAL:C	1:K:354:LEU:HD12	2.46	0.40
1:K:452:SER:CB	1:K:453:GLY:HA3	2.49	0.40
1:L:289:CYS:HB2	1:L:290:HIS:CE1	2.56	0.40
1:L:300:ILE:HD13	1:L:300:ILE:HG21	1.86	0.40
1:L:345:ASP:N	1:L:345:ASP:OD1	2.54	0.40
1:M:545:GLN:HE21	1:M:721:SER:HA	1.86	0.40
1:M:547:SER:OG	1:b:443:TYR:OH	2.29	0.40
1:M:568:THR:HG23	1:M:569:ASN:H	1.87	0.40
1:N:297:GLN:O	1:N:298:ARG:C	2.63	0.40
1:O:289:CYS:HB2	1:O:290:HIS:CE1	2.56	0.40
1:O:522:ALA:HA	1:O:609:ARG:NH2	2.36	0.40
1:P:439:ASP:N	1:P:439:ASP:OD1	2.55	0.40
1:P:447:ARG:NH1	1:P:450:THR:HG22	2.36	0.40
1:Q:351:PRO:O	1:Q:375:TYR:OH	2.40	0.40
1:R:552:VAL:HG21	1:R:556:LYS:HD2	2.03	0.40
1:R:555:GLU:OE1	1:R:555:GLU:N	2.46	0.40
1:R:568:THR:HG23	1:R:569:ASN:H	1.86	0.40
1:T:260:ILE:N	1:T:274:GLY:O	2.41	0.40
1:T:470:ILE:C	1:T:472:ASP:N	2.76	0.40
1:U:288:HIS:ND1	1:U:364:PRO:HG3	2.36	0.40
1:U:375:TYR:CG	1:U:376:GLY:N	2.86	0.40
1:U:452:SER:CB	1:U:453:GLY:HA3	2.49	0.40
1:V:437:LEU:HD23	1:V:437:LEU:HA	1.92	0.40
1:V:522:ALA:HA	1:V:609:ARG:NH2	2.36	0.40
1:V:526:HIS:CE1	1:V:527:LYS:O	2.75	0.40
1:V:665:LYS:HB3	1:W:368:ASP:OD2	2.22	0.40
1:X:568:THR:HG23	1:X:569:ASN:H	1.86	0.40
1:Y:468:SER:OG	1:Y:469:ASP:N	2.55	0.40
1:Z:468:SER:OG	1:Z:469:ASP:N	2.55	0.40
1:Z:665:LYS:HB3	1:a:368:ASP:OD2	2.21	0.40
1:a:578:SER:HA	1:a:594:ASP:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:654:PRO:HB2	1:a:666:PHE:HE1	1.86	0.40
1:c:289:CYS:HB2	1:c:290:HIS:CE1	2.56	0.40
1:c:526:HIS:CE1	1:c:527:LYS:O	2.75	0.40
1:e:698:ILE:O	1:f:701:THR:OG1	2.18	0.40
1:f:351:PRO:O	1:f:375:TYR:OH	2.40	0.40
1:f:552:VAL:HG21	1:f:556:LYS:HD2	2.03	0.40
1:g:245:ARG:HE	1:g:363:PRO:HG2	1.85	0.40
1:h:289:CYS:HB2	1:h:290:HIS:CE1	2.56	0.40
1:h:378:LEU:HA	1:h:378:LEU:HD23	1.75	0.40
1:h:711:ASP:O	1:h:712:PHE:C	2.64	0.40
1:i:496:ASN:HB2	1:i:498:SER:HB2	2.02	0.40
1:i:645:GLN:C	1:i:646:ILE:HG13	2.45	0.40
1:j:447:ARG:NH1	1:j:450:THR:HG22	2.36	0.40
1:k:526:HIS:CE1	1:k:527:LYS:O	2.75	0.40
1:l:654:PRO:HB2	1:l:666:PHE:HE1	1.86	0.40
1:m:365:PHE:HA	1:m:366:PRO:HD3	1.91	0.40
1:m:439:ASP:N	1:m:439:ASP:OD1	2.55	0.40
1:m:468:SER:OG	1:m:469:ASP:N	2.55	0.40
1:p:342:VAL:HG13	1:p:343:PHE:N	2.31	0.40
1:p:353:VAL:C	1:p:354:LEU:HD12	2.46	0.40
1:r:468:SER:OG	1:r:469:ASP:N	2.55	0.40
1:s:311:LEU:HD12	1:s:311:LEU:C	2.46	0.40
1:u:446:SER:OG	1:u:447:ARG:N	2.52	0.40
1:v:253:ASN:O	1:v:254:ASN:HB2	2.21	0.40
1:v:545:GLN:NE2	1:v:721:SER:HA	2.36	0.40
1:w:289:CYS:HB2	1:w:290:HIS:CE1	2.56	0.40
1:w:443:TYR:HH	1:x:547:SER:HG	1.57	0.40
1:w:645:GLN:C	1:w:646:ILE:HG13	2.45	0.40
1:y:470:ILE:C	1:y:472:ASP:N	2.76	0.40
1:y:522:ALA:HA	1:y:609:ARG:NH2	2.36	0.40
1:y:545:GLN:NE2	1:y:721:SER:HA	2.36	0.40
1:z:245:ARG:HE	1:z:363:PRO:HG2	1.85	0.40
1:z:654:PRO:HB2	1:z:666:PHE:HE1	1.86	0.40
1:1:470:ILE:C	1:1:472:ASP:N	2.76	0.40
1:1:654:PRO:HB2	1:1:666:PHE:HE1	1.86	0.40
1:3:654:PRO:HB2	1:3:666:PHE:HE1	1.86	0.40
1:4:260:ILE:N	1:4:274:GLY:O	2.41	0.40
1:5:711:ASP:O	1:5:712:PHE:C	2.64	0.40
1:6:654:PRO:HB2	1:6:666:PHE:HE1	1.86	0.40
1:7:287:PHE:HD2	1:7:613:LEU:HA	1.85	0.40
1:7:311:LEU:HD12	1:7:311:LEU:C	2.46	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:289:CYS:HB2	1:8:290:HIS:CE1	2.56	0.40
1:8:711:ASP:O	1:8:712:PHE:C	2.64	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	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	2	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	3	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	4	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	5	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	6	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	7	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	8	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	A	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	B	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	C	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	D	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	E	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	F	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	G	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	H	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	I	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	J	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	K	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	L	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	M	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	N	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	O	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	P	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	Q	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	R	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	S	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	T	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	U	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	V	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	W	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	X	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	Y	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	Z	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	a	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	b	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	c	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	d	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	e	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	f	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	g	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	h	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	i	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	j	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	k	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	l	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	m	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	n	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	o	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	p	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	q	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	r	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	s	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	t	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
1	u	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	v	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	w	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	x	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	y	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	4	29
1	z	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	4	29
All	All	29880/44100 (68%)	22656 (76%)	6444 (22%)	780 (3%)	6	29

All (780) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	680	VAL
1	B	680	VAL
1	C	680	VAL
1	D	680	VAL
1	E	680	VAL
1	F	680	VAL
1	G	680	VAL
1	H	680	VAL
1	I	680	VAL
1	J	680	VAL
1	K	680	VAL
1	L	680	VAL
1	M	680	VAL
1	N	680	VAL
1	O	680	VAL
1	P	680	VAL
1	Q	680	VAL
1	R	680	VAL
1	S	680	VAL
1	T	680	VAL
1	U	680	VAL
1	V	680	VAL

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Mol	Chain	Res	Type
1	W	680	VAL
1	X	680	VAL
1	Y	680	VAL
1	Z	680	VAL
1	a	680	VAL
1	b	680	VAL
1	c	680	VAL
1	d	680	VAL
1	e	680	VAL
1	f	680	VAL
1	g	680	VAL
1	h	680	VAL
1	i	680	VAL
1	j	680	VAL
1	k	680	VAL
1	l	680	VAL
1	m	680	VAL
1	n	680	VAL
1	o	680	VAL
1	p	680	VAL
1	q	680	VAL
1	r	680	VAL
1	s	680	VAL
1	t	680	VAL
1	u	680	VAL
1	v	680	VAL
1	w	680	VAL
1	x	680	VAL
1	y	680	VAL
1	z	680	VAL
1	1	680	VAL
1	2	680	VAL
1	3	680	VAL
1	4	680	VAL
1	5	680	VAL
1	6	680	VAL
1	7	680	VAL
1	8	680	VAL
1	A	470	ILE
1	A	471	ARG
1	A	525	SER
1	A	571	VAL

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Mol	Chain	Res	Type
1	B	470	ILE
1	B	471	ARG
1	B	525	SER
1	B	571	VAL
1	C	470	ILE
1	C	471	ARG
1	C	525	SER
1	C	571	VAL
1	D	470	ILE
1	D	471	ARG
1	D	525	SER
1	D	571	VAL
1	E	470	ILE
1	E	471	ARG
1	E	525	SER
1	E	571	VAL
1	F	470	ILE
1	F	471	ARG
1	F	525	SER
1	F	571	VAL
1	G	470	ILE
1	G	471	ARG
1	G	525	SER
1	G	571	VAL
1	H	470	ILE
1	H	471	ARG
1	H	525	SER
1	H	571	VAL
1	I	470	ILE
1	I	471	ARG
1	I	525	SER
1	I	571	VAL
1	J	470	ILE
1	J	471	ARG
1	J	525	SER
1	J	571	VAL
1	K	470	ILE
1	K	471	ARG
1	K	525	SER
1	K	571	VAL
1	L	470	ILE
1	L	471	ARG

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Mol	Chain	Res	Type
1	L	525	SER
1	L	571	VAL
1	M	470	ILE
1	M	471	ARG
1	M	525	SER
1	M	571	VAL
1	N	470	ILE
1	N	471	ARG
1	N	525	SER
1	N	571	VAL
1	O	470	ILE
1	O	471	ARG
1	O	525	SER
1	O	571	VAL
1	P	470	ILE
1	P	471	ARG
1	P	525	SER
1	P	571	VAL
1	Q	470	ILE
1	Q	471	ARG
1	Q	525	SER
1	Q	571	VAL
1	R	470	ILE
1	R	471	ARG
1	R	525	SER
1	R	571	VAL
1	S	470	ILE
1	S	471	ARG
1	S	525	SER
1	S	571	VAL
1	T	470	ILE
1	T	471	ARG
1	T	525	SER
1	T	571	VAL
1	U	470	ILE
1	U	471	ARG
1	U	525	SER
1	U	571	VAL
1	V	470	ILE
1	V	471	ARG
1	V	525	SER
1	V	571	VAL

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Mol	Chain	Res	Type
1	W	470	ILE
1	W	471	ARG
1	W	525	SER
1	W	571	VAL
1	X	470	ILE
1	X	471	ARG
1	X	525	SER
1	X	571	VAL
1	Y	470	ILE
1	Y	471	ARG
1	Y	525	SER
1	Y	571	VAL
1	Z	470	ILE
1	Z	471	ARG
1	Z	525	SER
1	Z	571	VAL
1	a	470	ILE
1	a	471	ARG
1	a	525	SER
1	a	571	VAL
1	b	470	ILE
1	b	471	ARG
1	b	525	SER
1	b	571	VAL
1	c	470	ILE
1	c	471	ARG
1	c	525	SER
1	c	571	VAL
1	d	470	ILE
1	d	471	ARG
1	d	525	SER
1	d	571	VAL
1	e	470	ILE
1	e	471	ARG
1	e	525	SER
1	e	571	VAL
1	f	470	ILE
1	f	471	ARG
1	f	525	SER
1	f	571	VAL
1	g	470	ILE
1	g	471	ARG

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Mol	Chain	Res	Type
1	g	525	SER
1	g	571	VAL
1	h	470	ILE
1	h	471	ARG
1	h	525	SER
1	h	571	VAL
1	i	470	ILE
1	i	471	ARG
1	i	525	SER
1	i	571	VAL
1	j	470	ILE
1	j	471	ARG
1	j	525	SER
1	j	571	VAL
1	k	470	ILE
1	k	471	ARG
1	k	525	SER
1	k	571	VAL
1	l	470	ILE
1	l	471	ARG
1	l	525	SER
1	l	571	VAL
1	m	470	ILE
1	m	471	ARG
1	m	525	SER
1	m	571	VAL
1	n	470	ILE
1	n	471	ARG
1	n	525	SER
1	n	571	VAL
1	o	470	ILE
1	o	471	ARG
1	o	525	SER
1	o	571	VAL
1	p	470	ILE
1	p	471	ARG
1	p	525	SER
1	p	571	VAL
1	q	470	ILE
1	q	471	ARG
1	q	525	SER
1	q	571	VAL

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Mol	Chain	Res	Type
1	r	470	ILE
1	r	471	ARG
1	r	525	SER
1	r	571	VAL
1	s	470	ILE
1	s	471	ARG
1	s	525	SER
1	s	571	VAL
1	t	470	ILE
1	t	471	ARG
1	t	525	SER
1	t	571	VAL
1	u	470	ILE
1	u	471	ARG
1	u	525	SER
1	u	571	VAL
1	v	470	ILE
1	v	471	ARG
1	v	525	SER
1	v	571	VAL
1	w	470	ILE
1	w	471	ARG
1	w	525	SER
1	w	571	VAL
1	x	470	ILE
1	x	471	ARG
1	x	525	SER
1	x	571	VAL
1	y	470	ILE
1	y	471	ARG
1	y	525	SER
1	y	571	VAL
1	z	470	ILE
1	z	471	ARG
1	z	525	SER
1	z	571	VAL
1	1	470	ILE
1	1	471	ARG
1	1	525	SER
1	1	571	VAL
1	2	470	ILE
1	2	471	ARG

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Mol	Chain	Res	Type
1	2	525	SER
1	2	571	VAL
1	3	470	ILE
1	3	471	ARG
1	3	525	SER
1	3	571	VAL
1	4	470	ILE
1	4	471	ARG
1	4	525	SER
1	4	571	VAL
1	5	470	ILE
1	5	471	ARG
1	5	525	SER
1	5	571	VAL
1	6	470	ILE
1	6	471	ARG
1	6	525	SER
1	6	571	VAL
1	7	470	ILE
1	7	471	ARG
1	7	525	SER
1	7	571	VAL
1	8	470	ILE
1	8	471	ARG
1	8	525	SER
1	8	571	VAL
1	A	539	VAL
1	B	539	VAL
1	C	539	VAL
1	D	539	VAL
1	E	539	VAL
1	F	539	VAL
1	G	539	VAL
1	H	539	VAL
1	I	539	VAL
1	J	539	VAL
1	K	539	VAL
1	L	539	VAL
1	M	539	VAL
1	N	539	VAL
1	O	539	VAL
1	P	539	VAL

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Mol	Chain	Res	Type
1	Q	539	VAL
1	R	539	VAL
1	S	539	VAL
1	T	539	VAL
1	U	539	VAL
1	V	539	VAL
1	W	539	VAL
1	X	539	VAL
1	Y	539	VAL
1	Z	539	VAL
1	a	539	VAL
1	b	539	VAL
1	c	539	VAL
1	d	539	VAL
1	e	539	VAL
1	f	539	VAL
1	g	539	VAL
1	h	539	VAL
1	i	539	VAL
1	j	539	VAL
1	k	539	VAL
1	l	539	VAL
1	m	539	VAL
1	n	539	VAL
1	o	539	VAL
1	p	539	VAL
1	q	539	VAL
1	r	539	VAL
1	s	539	VAL
1	t	539	VAL
1	u	539	VAL
1	v	539	VAL
1	w	539	VAL
1	x	539	VAL
1	y	539	VAL
1	z	539	VAL
1	1	539	VAL
1	2	539	VAL
1	3	539	VAL
1	4	539	VAL
1	5	539	VAL
1	6	539	VAL

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Mol	Chain	Res	Type
1	7	539	VAL
1	8	539	VAL
1	A	628	PHE
1	A	681	GLU
1	B	628	PHE
1	B	681	GLU
1	C	628	PHE
1	C	681	GLU
1	D	628	PHE
1	D	681	GLU
1	E	628	PHE
1	E	681	GLU
1	F	628	PHE
1	F	681	GLU
1	G	628	PHE
1	G	681	GLU
1	H	628	PHE
1	H	681	GLU
1	I	628	PHE
1	I	681	GLU
1	J	628	PHE
1	J	681	GLU
1	K	628	PHE
1	K	681	GLU
1	L	628	PHE
1	L	681	GLU
1	M	628	PHE
1	M	681	GLU
1	N	628	PHE
1	N	681	GLU
1	O	628	PHE
1	O	681	GLU
1	P	628	PHE
1	P	681	GLU
1	Q	628	PHE
1	Q	681	GLU
1	R	628	PHE
1	R	681	GLU
1	S	628	PHE
1	S	681	GLU
1	T	628	PHE
1	T	681	GLU

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Mol	Chain	Res	Type
1	U	628	PHE
1	U	681	GLU
1	V	628	PHE
1	V	681	GLU
1	W	628	PHE
1	W	681	GLU
1	X	628	PHE
1	X	681	GLU
1	Y	628	PHE
1	Y	681	GLU
1	Z	628	PHE
1	Z	681	GLU
1	a	628	PHE
1	a	681	GLU
1	b	628	PHE
1	b	681	GLU
1	c	628	PHE
1	c	681	GLU
1	d	628	PHE
1	d	681	GLU
1	e	628	PHE
1	e	681	GLU
1	f	628	PHE
1	f	681	GLU
1	g	628	PHE
1	g	681	GLU
1	h	628	PHE
1	h	681	GLU
1	i	628	PHE
1	i	681	GLU
1	j	628	PHE
1	j	681	GLU
1	k	628	PHE
1	k	681	GLU
1	l	628	PHE
1	l	681	GLU
1	m	628	PHE
1	m	681	GLU
1	n	628	PHE
1	n	681	GLU
1	o	628	PHE
1	o	681	GLU

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Mol	Chain	Res	Type
1	p	628	PHE
1	p	681	GLU
1	q	628	PHE
1	q	681	GLU
1	r	628	PHE
1	r	681	GLU
1	s	628	PHE
1	s	681	GLU
1	t	628	PHE
1	t	681	GLU
1	u	628	PHE
1	u	681	GLU
1	v	628	PHE
1	v	681	GLU
1	w	628	PHE
1	w	681	GLU
1	x	628	PHE
1	x	681	GLU
1	y	628	PHE
1	y	681	GLU
1	z	628	PHE
1	z	681	GLU
1	1	628	PHE
1	1	681	GLU
1	2	628	PHE
1	2	681	GLU
1	3	628	PHE
1	3	681	GLU
1	4	628	PHE
1	4	681	GLU
1	5	628	PHE
1	5	681	GLU
1	6	628	PHE
1	6	681	GLU
1	7	628	PHE
1	7	681	GLU
1	8	628	PHE
1	8	681	GLU
1	A	361	CYS
1	A	559	ILE
1	A	695	ASN
1	B	361	CYS

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Mol	Chain	Res	Type
1	B	559	ILE
1	B	695	ASN
1	C	361	CYS
1	C	559	ILE
1	C	695	ASN
1	D	361	CYS
1	D	559	ILE
1	D	695	ASN
1	E	361	CYS
1	E	559	ILE
1	E	695	ASN
1	F	361	CYS
1	F	559	ILE
1	F	695	ASN
1	G	361	CYS
1	G	559	ILE
1	G	695	ASN
1	H	361	CYS
1	H	559	ILE
1	H	695	ASN
1	I	361	CYS
1	I	559	ILE
1	I	695	ASN
1	J	361	CYS
1	J	559	ILE
1	J	695	ASN
1	K	361	CYS
1	K	559	ILE
1	K	695	ASN
1	L	361	CYS
1	L	559	ILE
1	L	695	ASN
1	M	361	CYS
1	M	559	ILE
1	M	695	ASN
1	N	361	CYS
1	N	559	ILE
1	N	695	ASN
1	O	361	CYS
1	O	559	ILE
1	O	695	ASN
1	P	361	CYS

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Mol	Chain	Res	Type
1	P	559	ILE
1	P	695	ASN
1	Q	361	CYS
1	Q	559	ILE
1	Q	695	ASN
1	R	361	CYS
1	R	559	ILE
1	R	695	ASN
1	S	361	CYS
1	S	559	ILE
1	S	695	ASN
1	T	361	CYS
1	T	559	ILE
1	T	695	ASN
1	U	361	CYS
1	U	559	ILE
1	U	695	ASN
1	V	361	CYS
1	V	559	ILE
1	V	695	ASN
1	W	361	CYS
1	W	559	ILE
1	W	695	ASN
1	X	361	CYS
1	X	559	ILE
1	X	695	ASN
1	Y	361	CYS
1	Y	559	ILE
1	Y	695	ASN
1	Z	361	CYS
1	Z	559	ILE
1	Z	695	ASN
1	a	361	CYS
1	a	559	ILE
1	a	695	ASN
1	b	361	CYS
1	b	559	ILE
1	b	695	ASN
1	c	361	CYS
1	c	559	ILE
1	c	695	ASN
1	d	361	CYS

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Mol	Chain	Res	Type
1	d	559	ILE
1	d	695	ASN
1	e	361	CYS
1	e	559	ILE
1	e	695	ASN
1	f	361	CYS
1	f	559	ILE
1	f	695	ASN
1	g	361	CYS
1	g	559	ILE
1	g	695	ASN
1	h	361	CYS
1	h	559	ILE
1	h	695	ASN
1	i	361	CYS
1	i	559	ILE
1	i	695	ASN
1	j	361	CYS
1	j	559	ILE
1	j	695	ASN
1	k	361	CYS
1	k	559	ILE
1	k	695	ASN
1	l	361	CYS
1	l	559	ILE
1	l	695	ASN
1	m	361	CYS
1	m	559	ILE
1	m	695	ASN
1	n	361	CYS
1	n	559	ILE
1	n	695	ASN
1	o	361	CYS
1	o	559	ILE
1	o	695	ASN
1	p	361	CYS
1	p	559	ILE
1	p	695	ASN
1	q	361	CYS
1	q	559	ILE
1	q	695	ASN
1	r	361	CYS

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Mol	Chain	Res	Type
1	r	559	ILE
1	r	695	ASN
1	s	361	CYS
1	s	559	ILE
1	s	695	ASN
1	t	361	CYS
1	t	559	ILE
1	t	695	ASN
1	u	361	CYS
1	u	559	ILE
1	u	695	ASN
1	v	361	CYS
1	v	559	ILE
1	v	695	ASN
1	w	361	CYS
1	w	559	ILE
1	w	695	ASN
1	x	361	CYS
1	x	559	ILE
1	x	695	ASN
1	y	361	CYS
1	y	559	ILE
1	y	695	ASN
1	z	361	CYS
1	z	559	ILE
1	z	695	ASN
1	1	361	CYS
1	1	559	ILE
1	1	695	ASN
1	2	361	CYS
1	2	559	ILE
1	2	695	ASN
1	3	361	CYS
1	3	559	ILE
1	3	695	ASN
1	4	361	CYS
1	4	559	ILE
1	4	695	ASN
1	5	361	CYS
1	5	559	ILE
1	5	695	ASN
1	6	361	CYS

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Mol	Chain	Res	Type
1	6	559	ILE
1	6	695	ASN
1	7	361	CYS
1	7	559	ILE
1	7	695	ASN
1	8	361	CYS
1	8	559	ILE
1	8	695	ASN
1	A	710	VAL
1	B	710	VAL
1	C	710	VAL
1	D	710	VAL
1	E	710	VAL
1	F	710	VAL
1	G	710	VAL
1	H	710	VAL
1	I	710	VAL
1	J	710	VAL
1	K	710	VAL
1	L	710	VAL
1	M	710	VAL
1	N	710	VAL
1	O	710	VAL
1	P	710	VAL
1	Q	710	VAL
1	R	710	VAL
1	S	710	VAL
1	T	710	VAL
1	U	710	VAL
1	V	710	VAL
1	W	710	VAL
1	X	710	VAL
1	Y	710	VAL
1	Z	710	VAL
1	a	710	VAL
1	b	710	VAL
1	c	710	VAL
1	d	710	VAL
1	e	710	VAL
1	f	710	VAL
1	g	710	VAL
1	h	710	VAL

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Mol	Chain	Res	Type
1	i	710	VAL
1	j	710	VAL
1	k	710	VAL
1	l	710	VAL
1	m	710	VAL
1	n	710	VAL
1	o	710	VAL
1	p	710	VAL
1	q	710	VAL
1	r	710	VAL
1	s	710	VAL
1	t	710	VAL
1	u	710	VAL
1	v	710	VAL
1	w	710	VAL
1	x	710	VAL
1	y	710	VAL
1	z	710	VAL
1	1	710	VAL
1	2	710	VAL
1	3	710	VAL
1	4	710	VAL
1	5	710	VAL
1	6	710	VAL
1	7	710	VAL
1	8	710	VAL
1	A	646	ILE
1	B	646	ILE
1	C	646	ILE
1	D	646	ILE
1	E	646	ILE
1	F	646	ILE
1	G	646	ILE
1	H	646	ILE
1	I	646	ILE
1	J	646	ILE
1	K	646	ILE
1	L	646	ILE
1	M	646	ILE
1	N	646	ILE
1	O	646	ILE
1	P	646	ILE

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Mol	Chain	Res	Type
1	Q	646	ILE
1	R	646	ILE
1	S	646	ILE
1	T	646	ILE
1	U	646	ILE
1	V	646	ILE
1	W	646	ILE
1	X	646	ILE
1	Y	646	ILE
1	Z	646	ILE
1	a	646	ILE
1	b	646	ILE
1	c	646	ILE
1	d	646	ILE
1	e	646	ILE
1	f	646	ILE
1	g	646	ILE
1	h	646	ILE
1	i	646	ILE
1	j	646	ILE
1	k	646	ILE
1	l	646	ILE
1	m	646	ILE
1	n	646	ILE
1	o	646	ILE
1	p	646	ILE
1	q	646	ILE
1	r	646	ILE
1	s	646	ILE
1	t	646	ILE
1	u	646	ILE
1	v	646	ILE
1	w	646	ILE
1	x	646	ILE
1	y	646	ILE
1	z	646	ILE
1	1	646	ILE
1	2	646	ILE
1	3	646	ILE
1	4	646	ILE
1	5	646	ILE
1	6	646	ILE

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Mol	Chain	Res	Type
1	7	646	ILE
1	8	646	ILE

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	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	2	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	3	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	4	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	5	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	6	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	7	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	8	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	A	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	B	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	C	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	D	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	E	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	F	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	G	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	H	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	I	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	J	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	K	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	L	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	M	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	N	444/629 (71%)	442 (100%)	2 (0%)	86	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	O	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	P	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	Q	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	R	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	S	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	T	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	U	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	V	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	W	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	X	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	Y	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	Z	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	a	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	b	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	c	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	d	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	e	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	f	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	g	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	h	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	i	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	j	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	k	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	l	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	m	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	n	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	o	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	p	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	q	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	r	444/629 (71%)	442 (100%)	2 (0%)	86	92
1	s	444/629 (71%)	442 (100%)	2 (0%)	86	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	t	444/629 (71%)	442 (100%)	2 (0%)	86 92
1	u	444/629 (71%)	442 (100%)	2 (0%)	86 92
1	v	444/629 (71%)	442 (100%)	2 (0%)	86 92
1	w	444/629 (71%)	442 (100%)	2 (0%)	86 92
1	x	444/629 (71%)	442 (100%)	2 (0%)	86 92
1	y	444/629 (71%)	442 (100%)	2 (0%)	86 92
1	z	444/629 (71%)	442 (100%)	2 (0%)	86 92
All	All	26640/37740 (71%)	26520 (100%)	120 (0%)	85 92

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

Mol	Chain	Res	Type
1	A	460	LEU
1	A	613	LEU
1	B	460	LEU
1	B	613	LEU
1	C	460	LEU
1	C	613	LEU
1	D	460	LEU
1	D	613	LEU
1	E	460	LEU
1	E	613	LEU
1	F	460	LEU
1	F	613	LEU
1	G	460	LEU
1	G	613	LEU
1	H	460	LEU
1	H	613	LEU
1	I	460	LEU
1	I	613	LEU
1	J	460	LEU
1	J	613	LEU
1	K	460	LEU
1	K	613	LEU
1	L	460	LEU
1	L	613	LEU
1	M	460	LEU
1	M	613	LEU
1	N	460	LEU
1	N	613	LEU

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Mol	Chain	Res	Type
1	O	460	LEU
1	O	613	LEU
1	P	460	LEU
1	P	613	LEU
1	Q	460	LEU
1	Q	613	LEU
1	R	460	LEU
1	R	613	LEU
1	S	460	LEU
1	S	613	LEU
1	T	460	LEU
1	T	613	LEU
1	U	460	LEU
1	U	613	LEU
1	V	460	LEU
1	V	613	LEU
1	W	460	LEU
1	W	613	LEU
1	X	460	LEU
1	X	613	LEU
1	Y	460	LEU
1	Y	613	LEU
1	Z	460	LEU
1	Z	613	LEU
1	a	460	LEU
1	a	613	LEU
1	b	460	LEU
1	b	613	LEU
1	c	460	LEU
1	c	613	LEU
1	d	460	LEU
1	d	613	LEU
1	e	460	LEU
1	e	613	LEU
1	f	460	LEU
1	f	613	LEU
1	g	460	LEU
1	g	613	LEU
1	h	460	LEU
1	h	613	LEU
1	i	460	LEU
1	i	613	LEU

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Mol	Chain	Res	Type
1	j	460	LEU
1	j	613	LEU
1	k	460	LEU
1	k	613	LEU
1	l	460	LEU
1	l	613	LEU
1	m	460	LEU
1	m	613	LEU
1	n	460	LEU
1	n	613	LEU
1	o	460	LEU
1	o	613	LEU
1	p	460	LEU
1	p	613	LEU
1	q	460	LEU
1	q	613	LEU
1	r	460	LEU
1	r	613	LEU
1	s	460	LEU
1	s	613	LEU
1	t	460	LEU
1	t	613	LEU
1	u	460	LEU
1	u	613	LEU
1	v	460	LEU
1	v	613	LEU
1	w	460	LEU
1	w	613	LEU
1	x	460	LEU
1	x	613	LEU
1	y	460	LEU
1	y	613	LEU
1	z	460	LEU
1	z	613	LEU
1	1	460	LEU
1	1	613	LEU
1	2	460	LEU
1	2	613	LEU
1	3	460	LEU
1	3	613	LEU
1	4	460	LEU
1	4	613	LEU

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Mol	Chain	Res	Type
1	5	460	LEU
1	5	613	LEU
1	6	460	LEU
1	6	613	LEU
1	7	460	LEU
1	7	613	LEU
1	8	460	LEU
1	8	613	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (801) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	253	ASN
1	A	259	GLN
1	A	263	GLN
1	A	334	ASN
1	A	382	ASN
1	A	440	GLN
1	A	461	GLN
1	A	473	GLN
1	A	589	GLN
1	A	596	ASN
1	A	598	GLN
1	A	607	GLN
1	A	656	ASN
1	A	677	GLN
1	B	253	ASN
1	B	263	GLN
1	B	382	ASN
1	B	440	GLN
1	B	461	GLN
1	B	473	GLN
1	B	589	GLN
1	B	596	ASN
1	B	598	GLN
1	B	607	GLN
1	B	656	ASN
1	B	677	GLN
1	C	253	ASN
1	C	263	GLN
1	C	374	GLN
1	C	382	ASN

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Mol	Chain	Res	Type
1	C	440	GLN
1	C	461	GLN
1	C	473	GLN
1	C	589	GLN
1	C	596	ASN
1	C	598	GLN
1	C	607	GLN
1	C	656	ASN
1	C	677	GLN
1	D	253	ASN
1	D	259	GLN
1	D	263	GLN
1	D	382	ASN
1	D	440	GLN
1	D	461	GLN
1	D	473	GLN
1	D	589	GLN
1	D	596	ASN
1	D	598	GLN
1	D	607	GLN
1	D	656	ASN
1	D	677	GLN
1	E	253	ASN
1	E	259	GLN
1	E	263	GLN
1	E	334	ASN
1	E	382	ASN
1	E	440	GLN
1	E	461	GLN
1	E	473	GLN
1	E	589	GLN
1	E	596	ASN
1	E	598	GLN
1	E	607	GLN
1	E	656	ASN
1	E	677	GLN
1	F	253	ASN
1	F	259	GLN
1	F	263	GLN
1	F	334	ASN
1	F	374	GLN
1	F	382	ASN

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Mol	Chain	Res	Type
1	F	440	GLN
1	F	461	GLN
1	F	473	GLN
1	F	589	GLN
1	F	596	ASN
1	F	598	GLN
1	F	607	GLN
1	F	656	ASN
1	F	677	GLN
1	G	253	ASN
1	G	263	GLN
1	G	334	ASN
1	G	382	ASN
1	G	440	GLN
1	G	461	GLN
1	G	473	GLN
1	G	495	ASN
1	G	589	GLN
1	G	596	ASN
1	G	598	GLN
1	G	607	GLN
1	G	656	ASN
1	G	677	GLN
1	H	253	ASN
1	H	263	GLN
1	H	334	ASN
1	H	382	ASN
1	H	440	GLN
1	H	461	GLN
1	H	473	GLN
1	H	589	GLN
1	H	596	ASN
1	H	598	GLN
1	H	607	GLN
1	H	656	ASN
1	H	677	GLN
1	I	253	ASN
1	I	263	GLN
1	I	334	ASN
1	I	374	GLN
1	I	382	ASN
1	I	421	HIS

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Mol	Chain	Res	Type
1	I	440	GLN
1	I	461	GLN
1	I	473	GLN
1	I	495	ASN
1	I	589	GLN
1	I	596	ASN
1	I	598	GLN
1	I	607	GLN
1	I	656	ASN
1	I	677	GLN
1	J	253	ASN
1	J	259	GLN
1	J	263	GLN
1	J	334	ASN
1	J	421	HIS
1	J	440	GLN
1	J	461	GLN
1	J	473	GLN
1	J	589	GLN
1	J	596	ASN
1	J	598	GLN
1	J	607	GLN
1	J	656	ASN
1	J	677	GLN
1	K	253	ASN
1	K	259	GLN
1	K	263	GLN
1	K	382	ASN
1	K	440	GLN
1	K	461	GLN
1	K	473	GLN
1	K	589	GLN
1	K	596	ASN
1	K	598	GLN
1	K	607	GLN
1	K	656	ASN
1	K	677	GLN
1	L	253	ASN
1	L	263	GLN
1	L	382	ASN
1	L	440	GLN
1	L	461	GLN

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Mol	Chain	Res	Type
1	L	473	GLN
1	L	589	GLN
1	L	596	ASN
1	L	598	GLN
1	L	607	GLN
1	L	656	ASN
1	L	677	GLN
1	M	253	ASN
1	M	259	GLN
1	M	263	GLN
1	M	334	ASN
1	M	440	GLN
1	M	461	GLN
1	M	473	GLN
1	M	589	GLN
1	M	596	ASN
1	M	598	GLN
1	M	607	GLN
1	M	656	ASN
1	M	677	GLN
1	N	253	ASN
1	N	259	GLN
1	N	263	GLN
1	N	334	ASN
1	N	382	ASN
1	N	440	GLN
1	N	461	GLN
1	N	473	GLN
1	N	589	GLN
1	N	596	ASN
1	N	598	GLN
1	N	607	GLN
1	N	656	ASN
1	N	677	GLN
1	O	253	ASN
1	O	263	GLN
1	O	334	ASN
1	O	440	GLN
1	O	461	GLN
1	O	473	GLN
1	O	589	GLN
1	O	596	ASN

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Mol	Chain	Res	Type
1	O	598	GLN
1	O	607	GLN
1	O	656	ASN
1	O	677	GLN
1	P	253	ASN
1	P	259	GLN
1	P	263	GLN
1	P	334	ASN
1	P	382	ASN
1	P	440	GLN
1	P	461	GLN
1	P	473	GLN
1	P	589	GLN
1	P	596	ASN
1	P	598	GLN
1	P	607	GLN
1	P	656	ASN
1	P	677	GLN
1	Q	253	ASN
1	Q	259	GLN
1	Q	263	GLN
1	Q	334	ASN
1	Q	382	ASN
1	Q	440	GLN
1	Q	461	GLN
1	Q	473	GLN
1	Q	589	GLN
1	Q	596	ASN
1	Q	598	GLN
1	Q	607	GLN
1	Q	656	ASN
1	Q	677	GLN
1	R	253	ASN
1	R	263	GLN
1	R	334	ASN
1	R	382	ASN
1	R	440	GLN
1	R	461	GLN
1	R	473	GLN
1	R	589	GLN
1	R	596	ASN
1	R	598	GLN

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Mol	Chain	Res	Type
1	R	607	GLN
1	R	656	ASN
1	R	677	GLN
1	S	253	ASN
1	S	263	GLN
1	S	334	ASN
1	S	382	ASN
1	S	440	GLN
1	S	461	GLN
1	S	473	GLN
1	S	495	ASN
1	S	589	GLN
1	S	596	ASN
1	S	598	GLN
1	S	607	GLN
1	S	656	ASN
1	S	677	GLN
1	T	253	ASN
1	T	263	GLN
1	T	334	ASN
1	T	382	ASN
1	T	440	GLN
1	T	461	GLN
1	T	473	GLN
1	T	589	GLN
1	T	596	ASN
1	T	598	GLN
1	T	607	GLN
1	T	656	ASN
1	T	677	GLN
1	U	253	ASN
1	U	263	GLN
1	U	382	ASN
1	U	440	GLN
1	U	461	GLN
1	U	473	GLN
1	U	495	ASN
1	U	589	GLN
1	U	596	ASN
1	U	598	GLN
1	U	607	GLN
1	U	656	ASN

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Mol	Chain	Res	Type
1	U	677	GLN
1	V	253	ASN
1	V	259	GLN
1	V	263	GLN
1	V	334	ASN
1	V	382	ASN
1	V	440	GLN
1	V	461	GLN
1	V	473	GLN
1	V	589	GLN
1	V	596	ASN
1	V	598	GLN
1	V	607	GLN
1	V	656	ASN
1	V	677	GLN
1	W	253	ASN
1	W	259	GLN
1	W	263	GLN
1	W	334	ASN
1	W	374	GLN
1	W	382	ASN
1	W	440	GLN
1	W	461	GLN
1	W	473	GLN
1	W	589	GLN
1	W	596	ASN
1	W	598	GLN
1	W	607	GLN
1	W	656	ASN
1	W	677	GLN
1	X	253	ASN
1	X	259	GLN
1	X	263	GLN
1	X	382	ASN
1	X	440	GLN
1	X	461	GLN
1	X	473	GLN
1	X	495	ASN
1	X	589	GLN
1	X	596	ASN
1	X	598	GLN
1	X	607	GLN

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Mol	Chain	Res	Type
1	X	656	ASN
1	Y	253	ASN
1	Y	263	GLN
1	Y	334	ASN
1	Y	382	ASN
1	Y	421	HIS
1	Y	440	GLN
1	Y	461	GLN
1	Y	473	GLN
1	Y	495	ASN
1	Y	589	GLN
1	Y	596	ASN
1	Y	598	GLN
1	Y	607	GLN
1	Y	656	ASN
1	Y	677	GLN
1	Z	253	ASN
1	Z	263	GLN
1	Z	334	ASN
1	Z	382	ASN
1	Z	440	GLN
1	Z	461	GLN
1	Z	473	GLN
1	Z	589	GLN
1	Z	596	ASN
1	Z	598	GLN
1	Z	607	GLN
1	Z	656	ASN
1	Z	677	GLN
1	a	253	ASN
1	a	259	GLN
1	a	263	GLN
1	a	334	ASN
1	a	382	ASN
1	a	440	GLN
1	a	461	GLN
1	a	473	GLN
1	a	589	GLN
1	a	596	ASN
1	a	598	GLN
1	a	607	GLN
1	a	656	ASN

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Mol	Chain	Res	Type
1	a	677	GLN
1	b	253	ASN
1	b	263	GLN
1	b	382	ASN
1	b	440	GLN
1	b	461	GLN
1	b	473	GLN
1	b	589	GLN
1	b	596	ASN
1	b	598	GLN
1	b	607	GLN
1	b	656	ASN
1	b	677	GLN
1	c	253	ASN
1	c	263	GLN
1	c	382	ASN
1	c	421	HIS
1	c	440	GLN
1	c	461	GLN
1	c	473	GLN
1	c	495	ASN
1	c	589	GLN
1	c	596	ASN
1	c	598	GLN
1	c	607	GLN
1	c	656	ASN
1	c	677	GLN
1	d	253	ASN
1	d	259	GLN
1	d	263	GLN
1	d	382	ASN
1	d	421	HIS
1	d	440	GLN
1	d	461	GLN
1	d	473	GLN
1	d	589	GLN
1	d	596	ASN
1	d	598	GLN
1	d	607	GLN
1	d	656	ASN
1	d	677	GLN
1	d	709	ASN

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Mol	Chain	Res	Type
1	e	253	ASN
1	e	259	GLN
1	e	263	GLN
1	e	334	ASN
1	e	382	ASN
1	e	440	GLN
1	e	461	GLN
1	e	473	GLN
1	e	589	GLN
1	e	596	ASN
1	e	598	GLN
1	e	607	GLN
1	e	656	ASN
1	e	677	GLN
1	f	253	ASN
1	f	263	GLN
1	f	440	GLN
1	f	461	GLN
1	f	473	GLN
1	f	589	GLN
1	f	596	ASN
1	f	598	GLN
1	f	607	GLN
1	f	656	ASN
1	f	677	GLN
1	g	253	ASN
1	g	263	GLN
1	g	382	ASN
1	g	440	GLN
1	g	461	GLN
1	g	473	GLN
1	g	589	GLN
1	g	596	ASN
1	g	598	GLN
1	g	607	GLN
1	g	656	ASN
1	h	253	ASN
1	h	263	GLN
1	h	382	ASN
1	h	440	GLN
1	h	461	GLN
1	h	473	GLN

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Mol	Chain	Res	Type
1	h	589	GLN
1	h	596	ASN
1	h	598	GLN
1	h	607	GLN
1	h	656	ASN
1	h	677	GLN
1	i	253	ASN
1	i	263	GLN
1	i	382	ASN
1	i	440	GLN
1	i	461	GLN
1	i	473	GLN
1	i	589	GLN
1	i	596	ASN
1	i	598	GLN
1	i	607	GLN
1	i	656	ASN
1	j	253	ASN
1	j	259	GLN
1	j	263	GLN
1	j	440	GLN
1	j	461	GLN
1	j	473	GLN
1	j	495	ASN
1	j	589	GLN
1	j	596	ASN
1	j	598	GLN
1	j	607	GLN
1	j	656	ASN
1	j	677	GLN
1	k	253	ASN
1	k	263	GLN
1	k	382	ASN
1	k	440	GLN
1	k	461	GLN
1	k	473	GLN
1	k	589	GLN
1	k	596	ASN
1	k	598	GLN
1	k	607	GLN
1	k	656	ASN
1	k	677	GLN

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Mol	Chain	Res	Type
1	l	253	ASN
1	l	263	GLN
1	l	334	ASN
1	l	374	GLN
1	l	382	ASN
1	l	440	GLN
1	l	461	GLN
1	l	473	GLN
1	l	589	GLN
1	l	596	ASN
1	l	598	GLN
1	l	607	GLN
1	l	656	ASN
1	m	253	ASN
1	m	263	GLN
1	m	334	ASN
1	m	382	ASN
1	m	440	GLN
1	m	461	GLN
1	m	473	GLN
1	m	589	GLN
1	m	596	ASN
1	m	598	GLN
1	m	607	GLN
1	m	656	ASN
1	m	677	GLN
1	n	253	ASN
1	n	259	GLN
1	n	263	GLN
1	n	334	ASN
1	n	374	GLN
1	n	382	ASN
1	n	440	GLN
1	n	461	GLN
1	n	473	GLN
1	n	589	GLN
1	n	596	ASN
1	n	598	GLN
1	n	607	GLN
1	n	656	ASN
1	n	677	GLN
1	o	253	ASN

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Mol	Chain	Res	Type
1	o	263	GLN
1	o	334	ASN
1	o	382	ASN
1	o	440	GLN
1	o	461	GLN
1	o	473	GLN
1	o	589	GLN
1	o	596	ASN
1	o	598	GLN
1	o	607	GLN
1	o	656	ASN
1	o	677	GLN
1	p	253	ASN
1	p	259	GLN
1	p	263	GLN
1	p	382	ASN
1	p	440	GLN
1	p	461	GLN
1	p	473	GLN
1	p	495	ASN
1	p	589	GLN
1	p	596	ASN
1	p	598	GLN
1	p	607	GLN
1	p	656	ASN
1	p	677	GLN
1	q	253	ASN
1	q	259	GLN
1	q	263	GLN
1	q	334	ASN
1	q	374	GLN
1	q	440	GLN
1	q	461	GLN
1	q	473	GLN
1	q	589	GLN
1	q	596	ASN
1	q	598	GLN
1	q	607	GLN
1	q	656	ASN
1	r	253	ASN
1	r	263	GLN
1	r	334	ASN

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Mol	Chain	Res	Type
1	r	382	ASN
1	r	421	HIS
1	r	440	GLN
1	r	461	GLN
1	r	473	GLN
1	r	589	GLN
1	r	596	ASN
1	r	598	GLN
1	r	607	GLN
1	r	656	ASN
1	r	677	GLN
1	s	253	ASN
1	s	263	GLN
1	s	334	ASN
1	s	382	ASN
1	s	440	GLN
1	s	461	GLN
1	s	473	GLN
1	s	589	GLN
1	s	596	ASN
1	s	598	GLN
1	s	607	GLN
1	s	656	ASN
1	s	677	GLN
1	t	253	ASN
1	t	263	GLN
1	t	334	ASN
1	t	382	ASN
1	t	440	GLN
1	t	461	GLN
1	t	473	GLN
1	t	495	ASN
1	t	589	GLN
1	t	596	ASN
1	t	598	GLN
1	t	607	GLN
1	t	656	ASN
1	u	253	ASN
1	u	263	GLN
1	u	334	ASN
1	u	382	ASN
1	u	440	GLN

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Mol	Chain	Res	Type
1	u	461	GLN
1	u	473	GLN
1	u	495	ASN
1	u	589	GLN
1	u	596	ASN
1	u	598	GLN
1	u	607	GLN
1	u	656	ASN
1	u	677	GLN
1	v	253	ASN
1	v	263	GLN
1	v	382	ASN
1	v	440	GLN
1	v	461	GLN
1	v	473	GLN
1	v	495	ASN
1	v	589	GLN
1	v	596	ASN
1	v	598	GLN
1	v	607	GLN
1	v	656	ASN
1	v	677	GLN
1	w	253	ASN
1	w	259	GLN
1	w	263	GLN
1	w	334	ASN
1	w	382	ASN
1	w	440	GLN
1	w	461	GLN
1	w	473	GLN
1	w	589	GLN
1	w	596	ASN
1	w	598	GLN
1	w	607	GLN
1	w	656	ASN
1	w	677	GLN
1	x	253	ASN
1	x	259	GLN
1	x	263	GLN
1	x	382	ASN
1	x	440	GLN
1	x	461	GLN

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Mol	Chain	Res	Type
1	x	473	GLN
1	x	495	ASN
1	x	589	GLN
1	x	596	ASN
1	x	598	GLN
1	x	607	GLN
1	x	656	ASN
1	y	253	ASN
1	y	259	GLN
1	y	263	GLN
1	y	334	ASN
1	y	382	ASN
1	y	440	GLN
1	y	461	GLN
1	y	473	GLN
1	y	589	GLN
1	y	596	ASN
1	y	598	GLN
1	y	607	GLN
1	y	656	ASN
1	z	253	ASN
1	z	263	GLN
1	z	334	ASN
1	z	382	ASN
1	z	440	GLN
1	z	461	GLN
1	z	473	GLN
1	z	589	GLN
1	z	596	ASN
1	z	598	GLN
1	z	607	GLN
1	z	656	ASN
1	z	677	GLN
1	1	253	ASN
1	1	263	GLN
1	1	334	ASN
1	1	382	ASN
1	1	440	GLN
1	1	461	GLN
1	1	473	GLN
1	1	589	GLN
1	1	596	ASN

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Mol	Chain	Res	Type
1	1	598	GLN
1	1	607	GLN
1	1	656	ASN
1	1	677	GLN
1	2	253	ASN
1	2	259	GLN
1	2	263	GLN
1	2	382	ASN
1	2	440	GLN
1	2	461	GLN
1	2	473	GLN
1	2	495	ASN
1	2	589	GLN
1	2	596	ASN
1	2	598	GLN
1	2	607	GLN
1	2	656	ASN
1	2	677	GLN
1	3	253	ASN
1	3	263	GLN
1	3	334	ASN
1	3	440	GLN
1	3	461	GLN
1	3	473	GLN
1	3	589	GLN
1	3	596	ASN
1	3	598	GLN
1	3	607	GLN
1	3	656	ASN
1	3	677	GLN
1	4	253	ASN
1	4	259	GLN
1	4	263	GLN
1	4	334	ASN
1	4	382	ASN
1	4	440	GLN
1	4	461	GLN
1	4	473	GLN
1	4	589	GLN
1	4	596	ASN
1	4	598	GLN
1	4	607	GLN

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Mol	Chain	Res	Type
1	4	656	ASN
1	4	677	GLN
1	5	253	ASN
1	5	259	GLN
1	5	334	ASN
1	5	382	ASN
1	5	440	GLN
1	5	461	GLN
1	5	473	GLN
1	5	589	GLN
1	5	596	ASN
1	5	598	GLN
1	5	607	GLN
1	5	656	ASN
1	5	677	GLN
1	6	253	ASN
1	6	259	GLN
1	6	263	GLN
1	6	334	ASN
1	6	382	ASN
1	6	421	HIS
1	6	440	GLN
1	6	461	GLN
1	6	473	GLN
1	6	589	GLN
1	6	596	ASN
1	6	598	GLN
1	6	607	GLN
1	6	656	ASN
1	6	677	GLN
1	7	253	ASN
1	7	259	GLN
1	7	263	GLN
1	7	334	ASN
1	7	382	ASN
1	7	440	GLN
1	7	461	GLN
1	7	473	GLN
1	7	589	GLN
1	7	596	ASN
1	7	598	GLN
1	7	607	GLN

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Mol	Chain	Res	Type
1	7	656	ASN
1	7	677	GLN
1	8	253	ASN
1	8	263	GLN
1	8	334	ASN
1	8	382	ASN
1	8	440	GLN
1	8	461	GLN
1	8	473	GLN
1	8	589	GLN
1	8	596	ASN
1	8	598	GLN
1	8	607	GLN
1	8	656	ASN
1	8	677	GLN

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

There are no chain breaks in this entry.

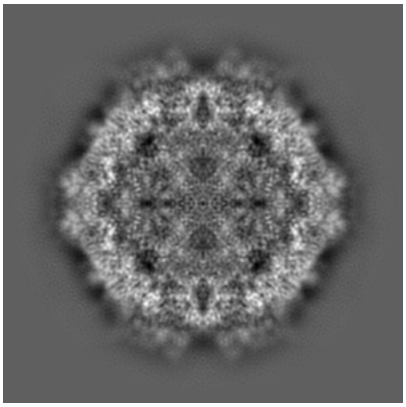
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-8100. These allow visual inspection of the internal detail of the map and identification of artifacts.

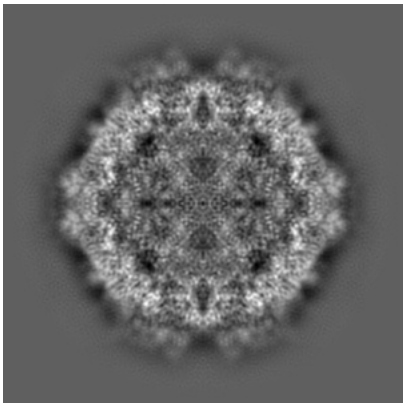
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

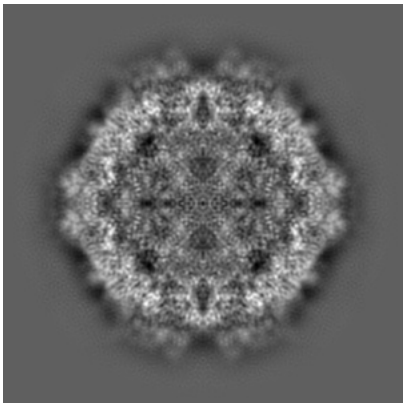
6.1.1 Primary map



X



Y

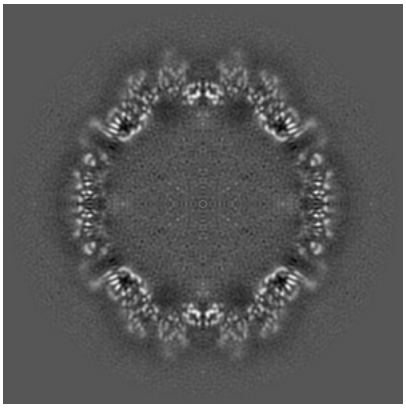


Z

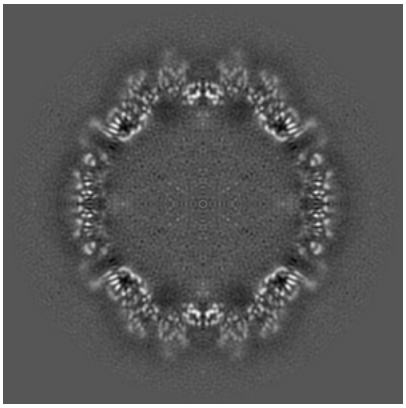
The images above show the map projected in three orthogonal directions.

6.2 Central slices

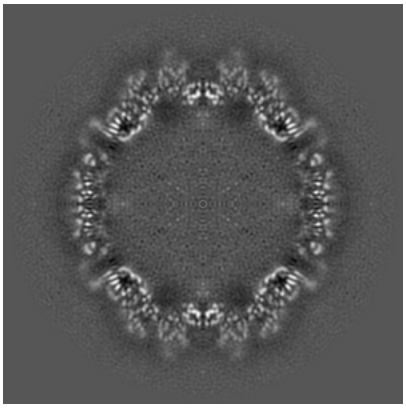
6.2.1 Primary map



X Index: 164



Y Index: 164

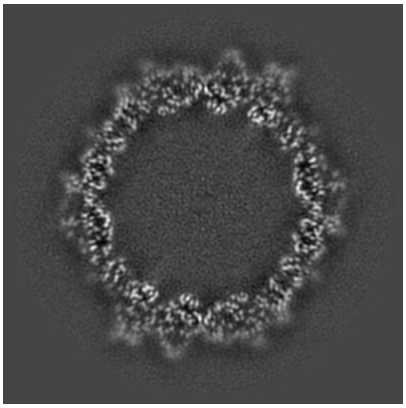


Z Index: 164

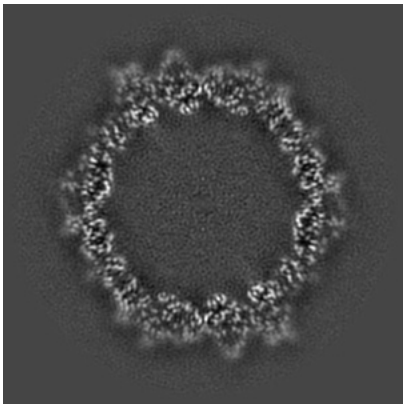
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

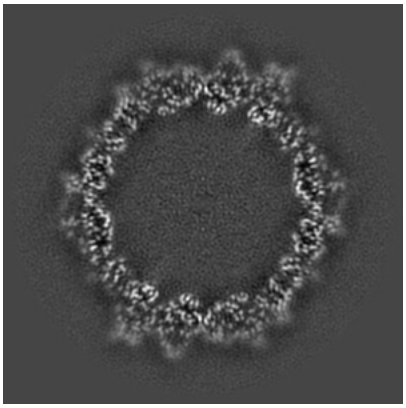
6.3.1 Primary map



X Index: 151



Y Index: 177

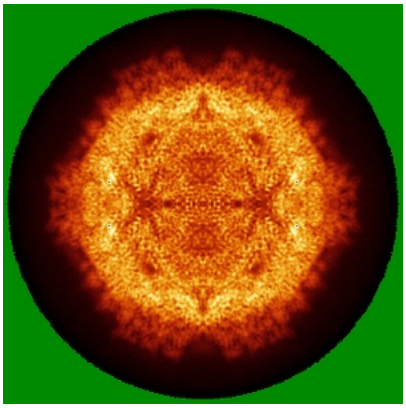


Z Index: 151

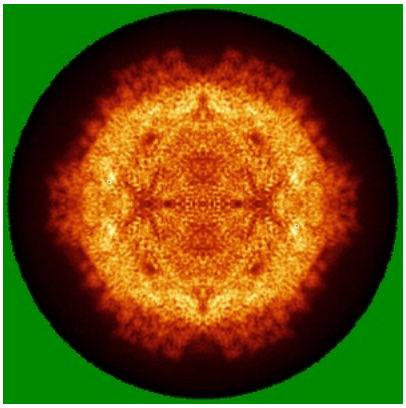
The images above show the largest variance slices of the map in three orthogonal directions.

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

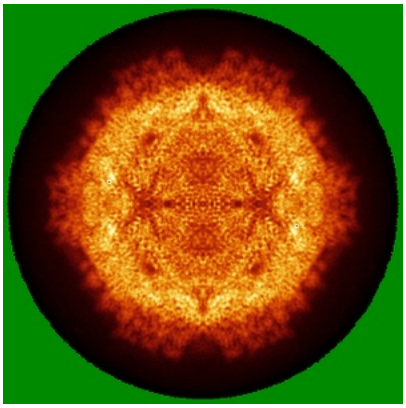
6.4.1 Primary map



X



Y

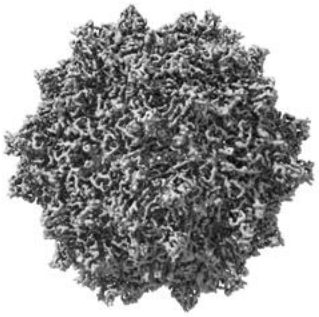


Z

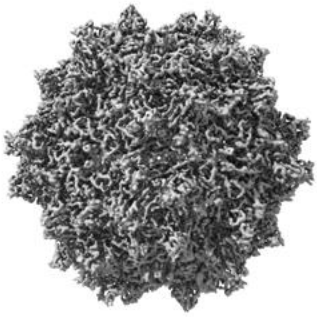
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

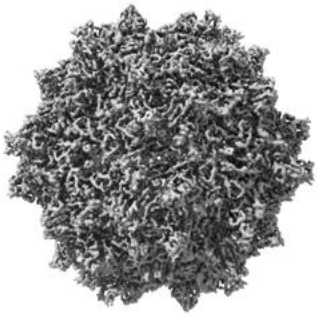
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.9. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

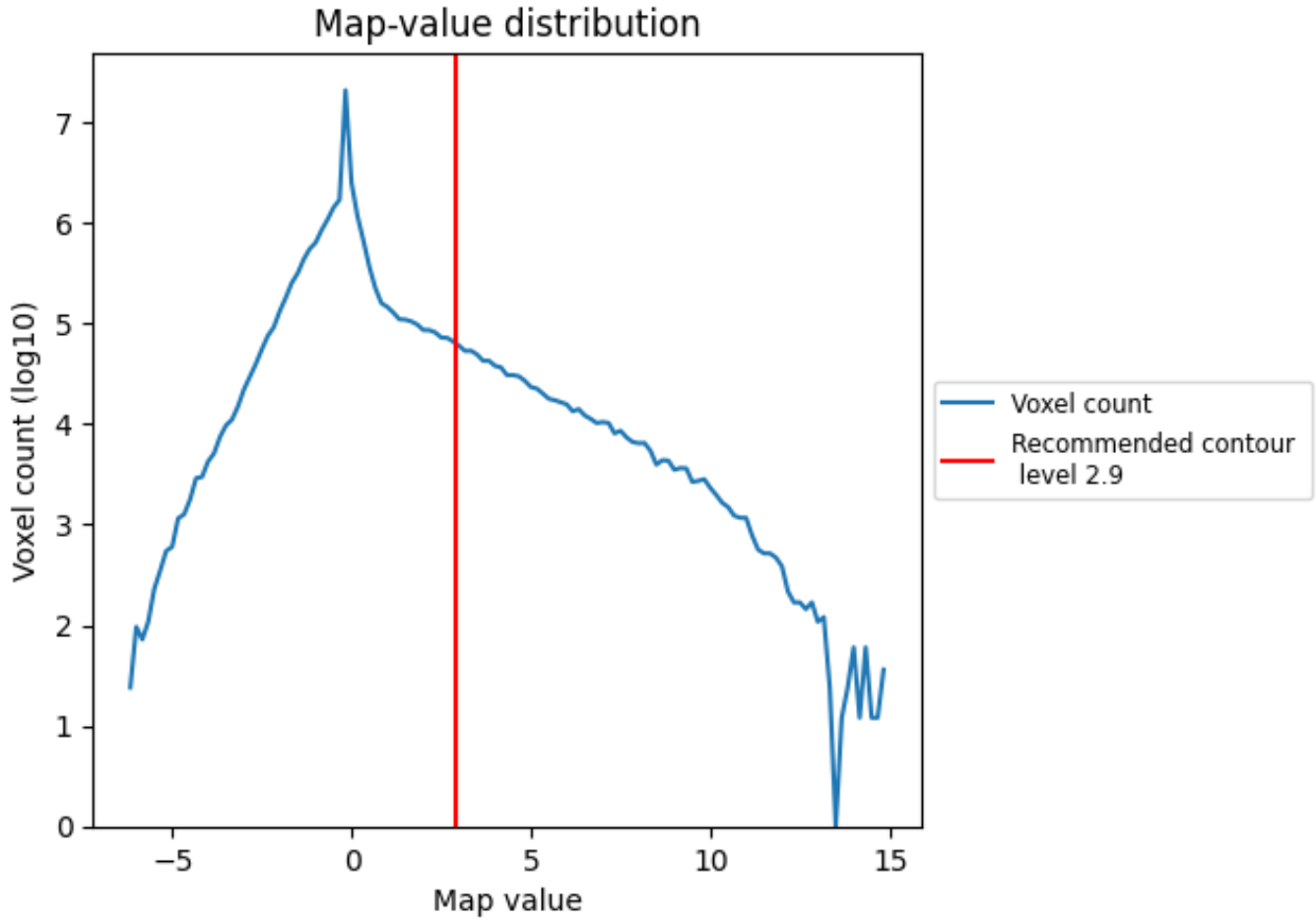
6.6 Mask visualisation (i)

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

7 Map analysis

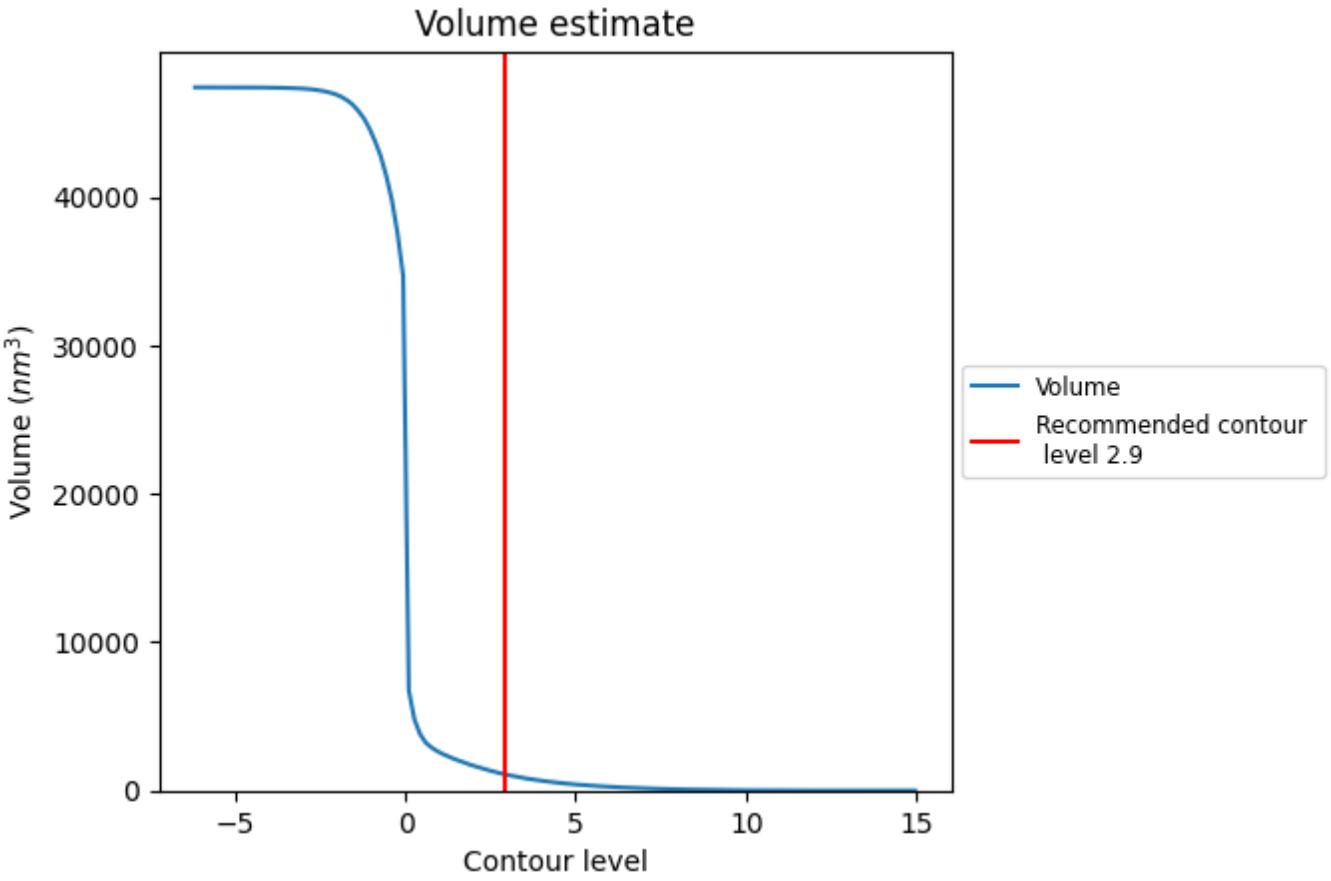
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

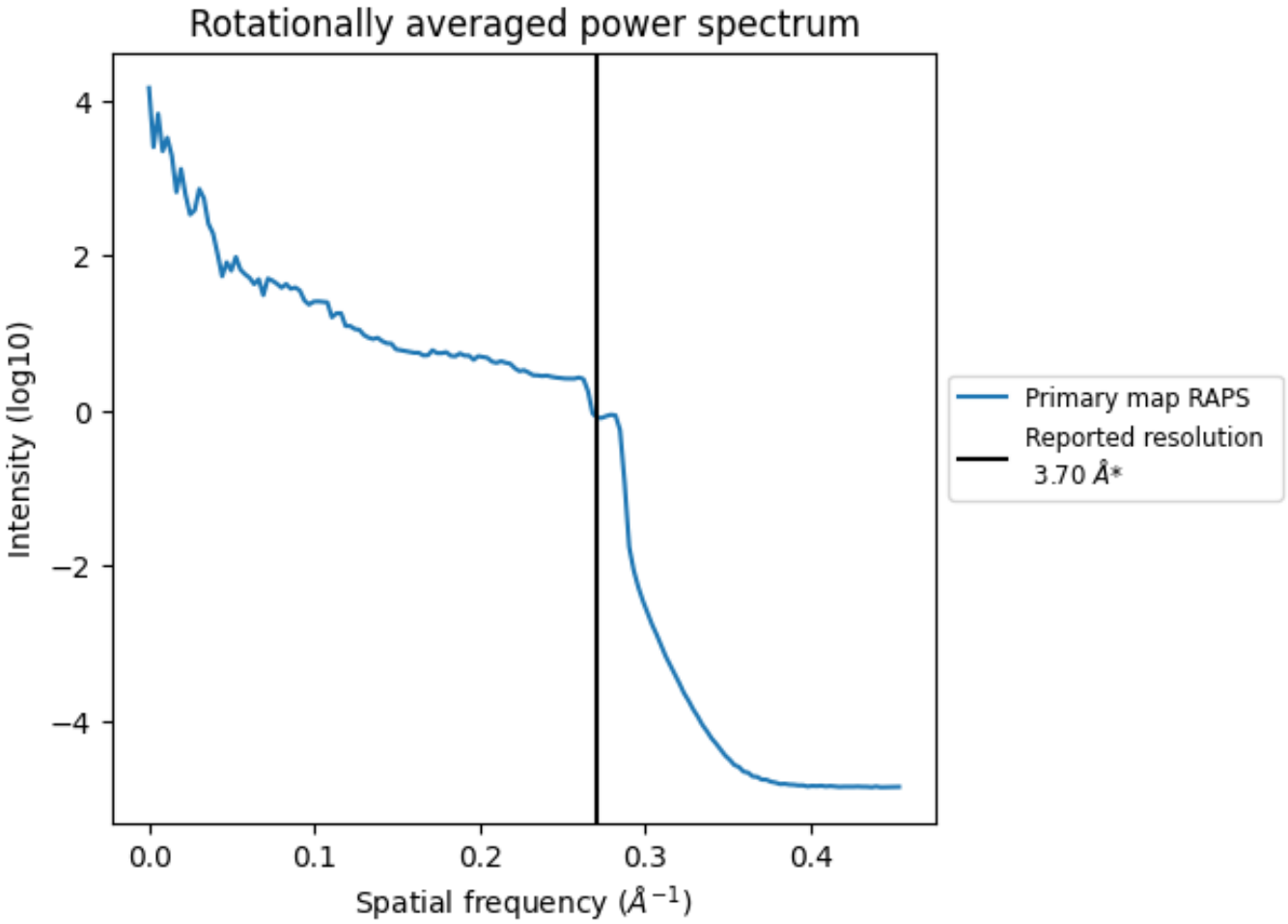
7.2 Volume estimate



The volume at the recommended contour level is 1108 nm^3; this corresponds to an approximate mass of 1001 kDa.

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

7.3 Rotationally averaged power spectrum (i)



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

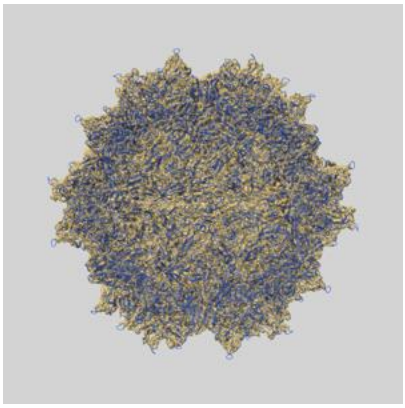
8 Fourier-Shell correlation

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

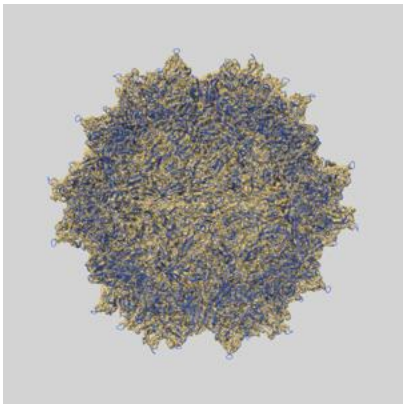
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-8100 and PDB model 5IPK. Per-residue inclusion information can be found in section 3 on page 11.

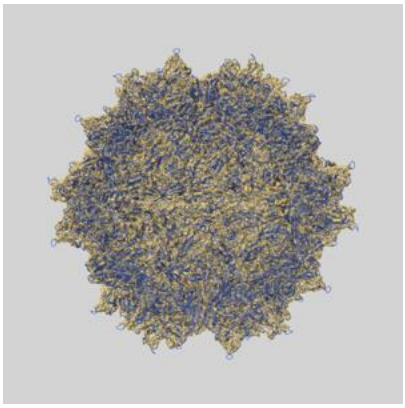
9.1 Map-model overlay



X



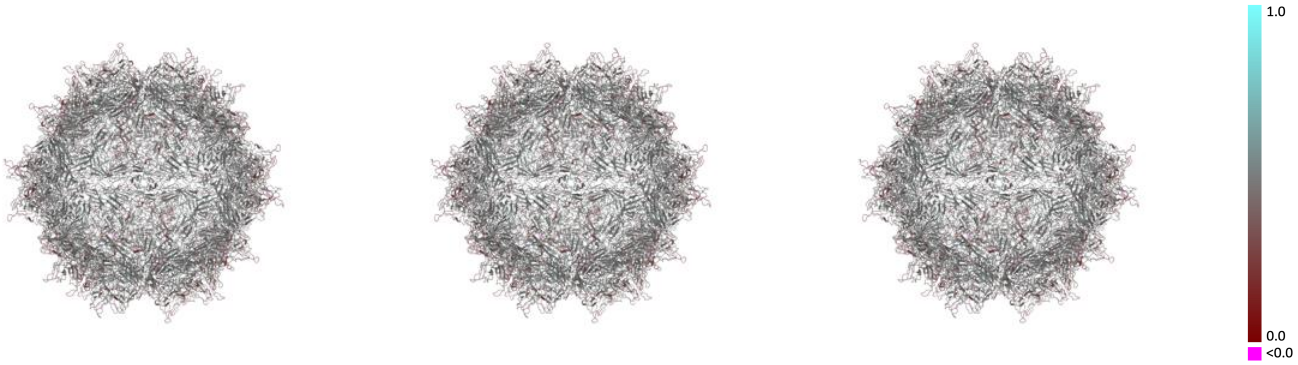
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.9 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

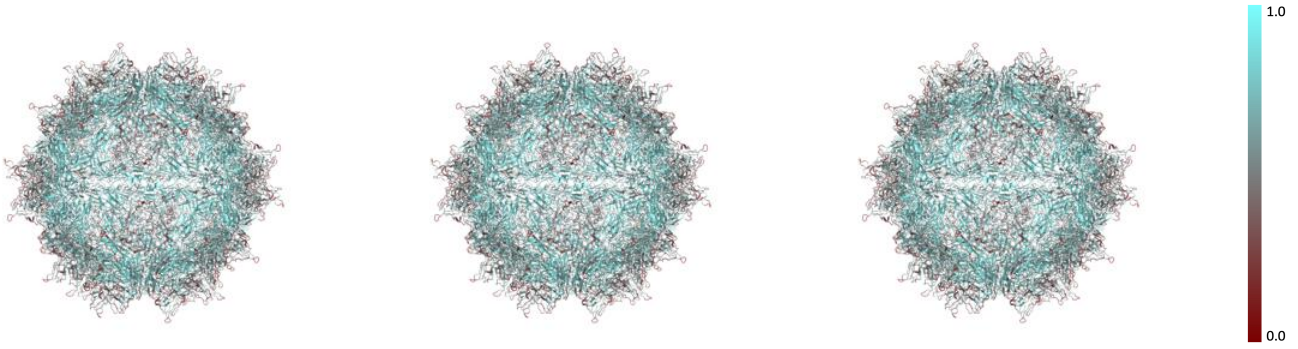
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

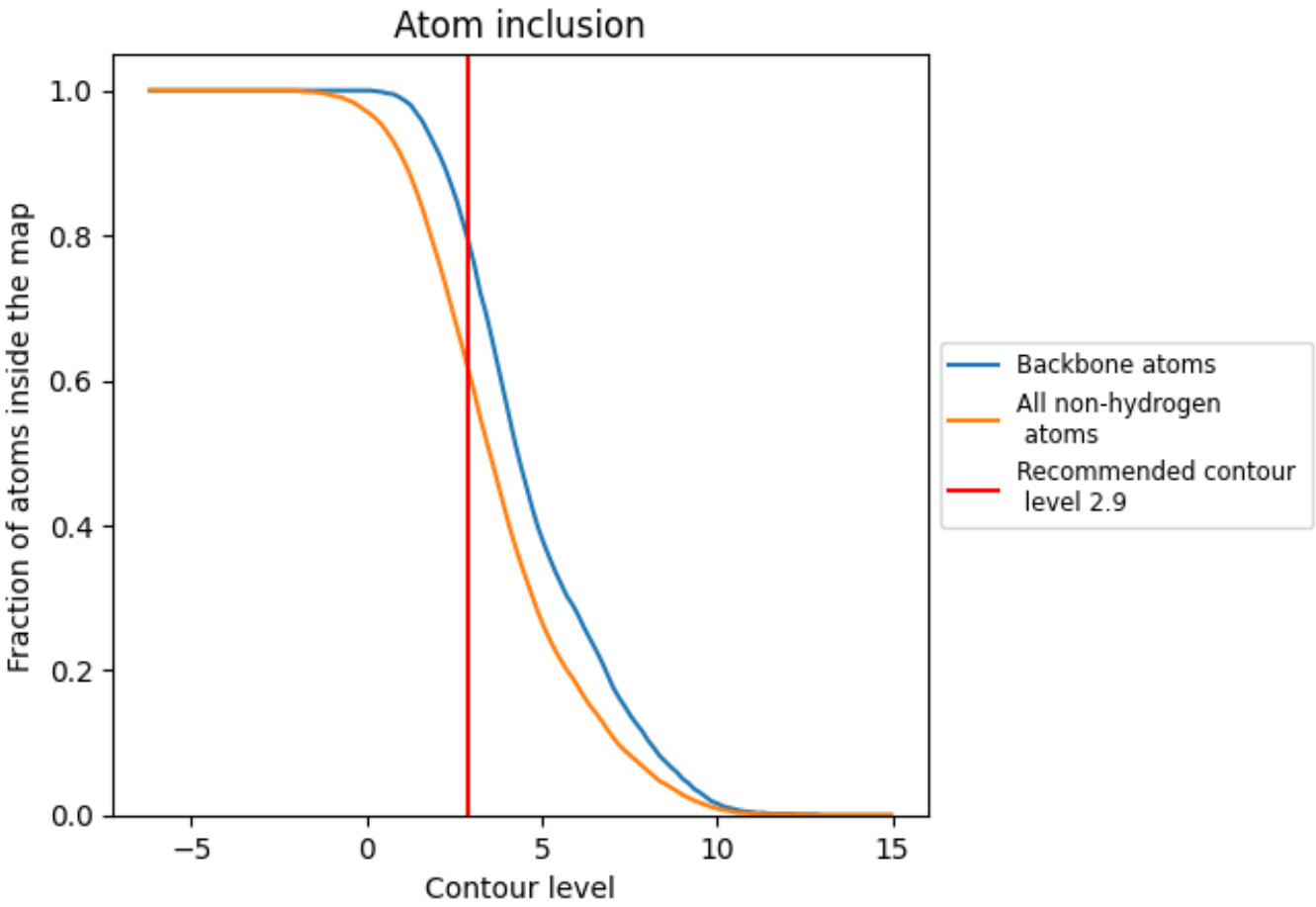
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.9).

9.4 Atom inclusion (i)



At the recommended contour level, 79% of all backbone atoms, 62% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (2.9) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6160	0.4490
1	0.6190	0.4500
2	0.6190	0.4490
3	0.6190	0.4480
4	0.6130	0.4490
5	0.6140	0.4490
6	0.6130	0.4490
7	0.6190	0.4500
8	0.6160	0.4490
A	0.6180	0.4490
B	0.6120	0.4490
C	0.6140	0.4490
D	0.6160	0.4500
E	0.6190	0.4490
F	0.6120	0.4480
G	0.6180	0.4500
H	0.6130	0.4480
I	0.6180	0.4480
J	0.6190	0.4480
K	0.6160	0.4500
L	0.6140	0.4480
M	0.6190	0.4490
N	0.6160	0.4490
O	0.6190	0.4490
P	0.6160	0.4500
Q	0.6140	0.4500
R	0.6140	0.4500
S	0.6130	0.4490
T	0.6200	0.4480
U	0.6190	0.4500
V	0.6170	0.4490
W	0.6190	0.4490
X	0.6160	0.4500
Y	0.6140	0.4490
Z	0.6140	0.4460

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Chain	Atom inclusion	Q-score
a	0.6160	0.4480
b	0.6130	0.4490
c	0.6180	0.4490
d	0.6190	0.4480
e	0.6170	0.4490
f	0.6190	0.4500
g	0.6130	0.4500
h	0.6130	0.4500
i	0.6130	0.4490
j	0.6180	0.4490
k	0.6130	0.4490
l	0.6180	0.4490
m	0.6140	0.4470
n	0.6130	0.4470
o	0.6180	0.4500
p	0.6170	0.4490
q	0.6190	0.4480
r	0.6140	0.4480
s	0.6110	0.4460
t	0.6140	0.4490
u	0.6130	0.4490
v	0.6190	0.4490
w	0.6170	0.4480
x	0.6170	0.4490
y	0.6160	0.4490
z	0.6180	0.4500