



Full wwPDB EM Validation Report ⓘ

Mar 20, 2026 – 04:38 PM UTC

PDB ID : 6CBE / pdb_00006cbe
EMDB ID : EMD-7452
Title : Atomic structure of a rationally engineered gene delivery vector, AAV2.5
Authors : Burg, M.; Rosebrough, C.; Drouin, L.; Bennett, A.; Mietzsch, M.; Chipman, P.; McKenna, R.; Sousa, D.; Potter, M.; Byrne, B.; Kozyreva, O.G.; Samulski, R.J.; Agbandje-McKenna, M.
Deposited on : 2018-02-02
Resolution : 2.78 Å(reported)

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

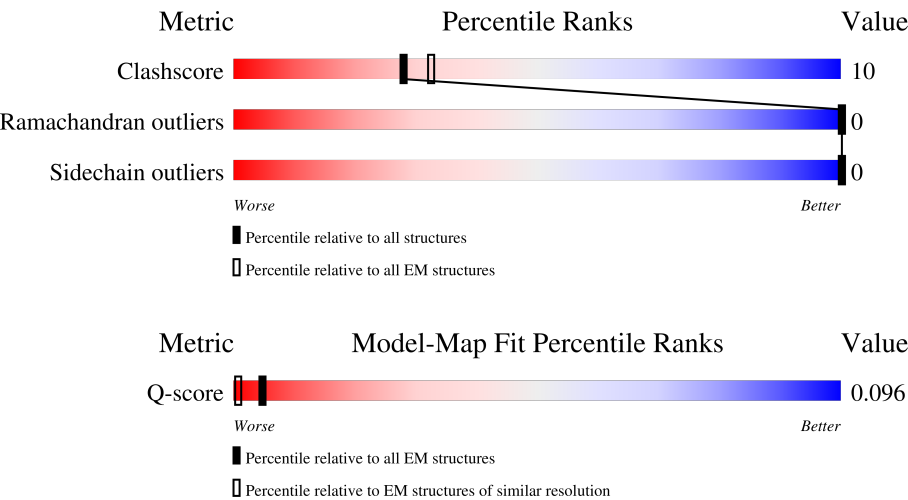
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh &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

1 Overall quality at a glance i

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

The reported resolution of this entry is 2.78 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	10754 (2.28 - 3.28)

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 $\leq 5\%$. 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	0	736	24% 55% 15% 30%
1	1	736	24% 55% 15% 30%
1	2	736	23% 55% 15% 30%
1	3	736	24% 54% 16% 30%

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Mol	Chain	Length	Quality of chain
1	4	736	26% 55% 16% 30%
1	5	736	24% 55% 16% 30%
1	6	736	25% 55% 15% 30%
1	7	736	25% 55% 15% 30%
1	A	736	24% 56% 15% 30%
1	B	736	26% 55% 15% 30%
1	C	736	24% 55% 15% 30%
1	D	736	25% 55% 15% 30%
1	E	736	23% 55% 15% 30%
1	F	736	23% 55% 16% 30%
1	G	736	25% 55% 15% 30%
1	H	736	25% 55% 16% 30%
1	I	736	24% 55% 15% 30%
1	J	736	26% 55% 15% 30%
1	K	736	24% 55% 15% 30%
1	L	736	26% 55% 16% 30%
1	M	736	25% 55% 15% 30%
1	N	736	24% 55% 15% 30%
1	O	736	26% 55% 15% 30%
1	P	736	24% 55% 16% 30%
1	Q	736	23% 55% 15% 30%
1	R	736	24% 55% 15% 30%
1	S	736	25% 55% 15% 30%
1	T	736	25% 55% 15% 30%
1	U	736	24% 55% 15% 30%

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Mol	Chain	Length	Quality of chain
1	V	736	26% 55% 16% 30%
1	W	736	24% 55% 15% 30%
1	X	736	26% 55% 15% 30%
1	Y	736	24% 56% 15% 30%
1	Z	736	23% 55% 16% 30%
1	a	736	25% 55% 15% 30%
1	b	736	24% 55% 15% 30%
1	c	736	23% 55% 16% 30%
1	d	736	23% 54% 16% 30%
1	e	736	23% 55% 15% 30%
1	f	736	24% 55% 15% 30%
1	g	736	26% 55% 15% 30%
1	h	736	25% 55% 15% 30%
1	i	736	23% 55% 16% 30%
1	j	736	23% 55% 16% 30%
1	k	736	25% 55% 15% 30%
1	l	736	24% 55% 15% 30%
1	m	736	24% 55% 16% 30%
1	n	736	26% 54% 16% 30%
1	o	736	26% 55% 15% 30%
1	p	736	26% 55% 15% 30%
1	q	736	24% 55% 16% 30%
1	r	736	25% 55% 15% 30%
1	s	736	24% 55% 15% 30%
1	t	736	25% 55% 15% 30%

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Mol	Chain	Length	Quality of chain
1	u	736	
1	v	736	
1	w	736	
1	x	736	
1	y	736	
1	z	736	

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 248520 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	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	B	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	C	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	D	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	E	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	F	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	G	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	H	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	I	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	J	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	K	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	L	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	M	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	N	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	O	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	P	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		
1	Q	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	S	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	T	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	U	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	V	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	W	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	X	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	Y	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	Z	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	0	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	1	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	2	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	3	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	4	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	5	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	a	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	b	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	c	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	d	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	e	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	f	518	Total 4142	C 2606	N 723	O 800	S 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	h	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	i	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	j	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	k	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	l	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	m	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	n	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	o	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	p	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	q	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	r	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	s	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	t	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	u	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	v	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	w	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	x	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	y	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	z	518	Total 4142	C 2606	N 723	O 800	S 13	0	0
1	6	518	Total 4142	C 2606	N 723	O 800	S 13	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	7	518	Total	C	N	O	S	0	0
			4142	2606	723	800	13		

There are 300 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	263	ALA	GLN	conflict	UNP P03135
A	265	THR	-	insertion	UNP P03135
A	706	ALA	ASN	conflict	UNP P03135
A	709	ALA	VAL	conflict	UNP P03135
A	717	ASN	THR	conflict	UNP P03135
B	263	ALA	GLN	conflict	UNP P03135
B	265	THR	-	insertion	UNP P03135
B	706	ALA	ASN	conflict	UNP P03135
B	709	ALA	VAL	conflict	UNP P03135
B	717	ASN	THR	conflict	UNP P03135
C	263	ALA	GLN	conflict	UNP P03135
C	265	THR	-	insertion	UNP P03135
C	706	ALA	ASN	conflict	UNP P03135
C	709	ALA	VAL	conflict	UNP P03135
C	717	ASN	THR	conflict	UNP P03135
D	263	ALA	GLN	conflict	UNP P03135
D	265	THR	-	insertion	UNP P03135
D	706	ALA	ASN	conflict	UNP P03135
D	709	ALA	VAL	conflict	UNP P03135
D	717	ASN	THR	conflict	UNP P03135
E	263	ALA	GLN	conflict	UNP P03135
E	265	THR	-	insertion	UNP P03135
E	706	ALA	ASN	conflict	UNP P03135
E	709	ALA	VAL	conflict	UNP P03135
E	717	ASN	THR	conflict	UNP P03135
F	263	ALA	GLN	conflict	UNP P03135
F	265	THR	-	insertion	UNP P03135
F	706	ALA	ASN	conflict	UNP P03135
F	709	ALA	VAL	conflict	UNP P03135
F	717	ASN	THR	conflict	UNP P03135
G	263	ALA	GLN	conflict	UNP P03135
G	265	THR	-	insertion	UNP P03135
G	706	ALA	ASN	conflict	UNP P03135
G	709	ALA	VAL	conflict	UNP P03135
G	717	ASN	THR	conflict	UNP P03135
H	263	ALA	GLN	conflict	UNP P03135

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Chain	Residue	Modelled	Actual	Comment	Reference
H	265	THR	-	insertion	UNP P03135
H	706	ALA	ASN	conflict	UNP P03135
H	709	ALA	VAL	conflict	UNP P03135
H	717	ASN	THR	conflict	UNP P03135
I	263	ALA	GLN	conflict	UNP P03135
I	265	THR	-	insertion	UNP P03135
I	706	ALA	ASN	conflict	UNP P03135
I	709	ALA	VAL	conflict	UNP P03135
I	717	ASN	THR	conflict	UNP P03135
J	263	ALA	GLN	conflict	UNP P03135
J	265	THR	-	insertion	UNP P03135
J	706	ALA	ASN	conflict	UNP P03135
J	709	ALA	VAL	conflict	UNP P03135
J	717	ASN	THR	conflict	UNP P03135
K	263	ALA	GLN	conflict	UNP P03135
K	265	THR	-	insertion	UNP P03135
K	706	ALA	ASN	conflict	UNP P03135
K	709	ALA	VAL	conflict	UNP P03135
K	717	ASN	THR	conflict	UNP P03135
L	263	ALA	GLN	conflict	UNP P03135
L	265	THR	-	insertion	UNP P03135
L	706	ALA	ASN	conflict	UNP P03135
L	709	ALA	VAL	conflict	UNP P03135
L	717	ASN	THR	conflict	UNP P03135
M	263	ALA	GLN	conflict	UNP P03135
M	265	THR	-	insertion	UNP P03135
M	706	ALA	ASN	conflict	UNP P03135
M	709	ALA	VAL	conflict	UNP P03135
M	717	ASN	THR	conflict	UNP P03135
N	263	ALA	GLN	conflict	UNP P03135
N	265	THR	-	insertion	UNP P03135
N	706	ALA	ASN	conflict	UNP P03135
N	709	ALA	VAL	conflict	UNP P03135
N	717	ASN	THR	conflict	UNP P03135
O	263	ALA	GLN	conflict	UNP P03135
O	265	THR	-	insertion	UNP P03135
O	706	ALA	ASN	conflict	UNP P03135
O	709	ALA	VAL	conflict	UNP P03135
O	717	ASN	THR	conflict	UNP P03135
P	263	ALA	GLN	conflict	UNP P03135
P	265	THR	-	insertion	UNP P03135
P	706	ALA	ASN	conflict	UNP P03135

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Chain	Residue	Modelled	Actual	Comment	Reference
P	709	ALA	VAL	conflict	UNP P03135
P	717	ASN	THR	conflict	UNP P03135
Q	263	ALA	GLN	conflict	UNP P03135
Q	265	THR	-	insertion	UNP P03135
Q	706	ALA	ASN	conflict	UNP P03135
Q	709	ALA	VAL	conflict	UNP P03135
Q	717	ASN	THR	conflict	UNP P03135
R	263	ALA	GLN	conflict	UNP P03135
R	265	THR	-	insertion	UNP P03135
R	706	ALA	ASN	conflict	UNP P03135
R	709	ALA	VAL	conflict	UNP P03135
R	717	ASN	THR	conflict	UNP P03135
S	263	ALA	GLN	conflict	UNP P03135
S	265	THR	-	insertion	UNP P03135
S	706	ALA	ASN	conflict	UNP P03135
S	709	ALA	VAL	conflict	UNP P03135
S	717	ASN	THR	conflict	UNP P03135
T	263	ALA	GLN	conflict	UNP P03135
T	265	THR	-	insertion	UNP P03135
T	706	ALA	ASN	conflict	UNP P03135
T	709	ALA	VAL	conflict	UNP P03135
T	717	ASN	THR	conflict	UNP P03135
U	263	ALA	GLN	conflict	UNP P03135
U	265	THR	-	insertion	UNP P03135
U	706	ALA	ASN	conflict	UNP P03135
U	709	ALA	VAL	conflict	UNP P03135
U	717	ASN	THR	conflict	UNP P03135
V	263	ALA	GLN	conflict	UNP P03135
V	265	THR	-	insertion	UNP P03135
V	706	ALA	ASN	conflict	UNP P03135
V	709	ALA	VAL	conflict	UNP P03135
V	717	ASN	THR	conflict	UNP P03135
W	263	ALA	GLN	conflict	UNP P03135
W	265	THR	-	insertion	UNP P03135
W	706	ALA	ASN	conflict	UNP P03135
W	709	ALA	VAL	conflict	UNP P03135
W	717	ASN	THR	conflict	UNP P03135
X	263	ALA	GLN	conflict	UNP P03135
X	265	THR	-	insertion	UNP P03135
X	706	ALA	ASN	conflict	UNP P03135
X	709	ALA	VAL	conflict	UNP P03135
X	717	ASN	THR	conflict	UNP P03135

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Chain	Residue	Modelled	Actual	Comment	Reference
Y	263	ALA	GLN	conflict	UNP P03135
Y	265	THR	-	insertion	UNP P03135
Y	706	ALA	ASN	conflict	UNP P03135
Y	709	ALA	VAL	conflict	UNP P03135
Y	717	ASN	THR	conflict	UNP P03135
Z	263	ALA	GLN	conflict	UNP P03135
Z	265	THR	-	insertion	UNP P03135
Z	706	ALA	ASN	conflict	UNP P03135
Z	709	ALA	VAL	conflict	UNP P03135
Z	717	ASN	THR	conflict	UNP P03135
0	263	ALA	GLN	conflict	UNP P03135
0	265	THR	-	insertion	UNP P03135
0	706	ALA	ASN	conflict	UNP P03135
0	709	ALA	VAL	conflict	UNP P03135
0	717	ASN	THR	conflict	UNP P03135
1	263	ALA	GLN	conflict	UNP P03135
1	265	THR	-	insertion	UNP P03135
1	706	ALA	ASN	conflict	UNP P03135
1	709	ALA	VAL	conflict	UNP P03135
1	717	ASN	THR	conflict	UNP P03135
2	263	ALA	GLN	conflict	UNP P03135
2	265	THR	-	insertion	UNP P03135
2	706	ALA	ASN	conflict	UNP P03135
2	709	ALA	VAL	conflict	UNP P03135
2	717	ASN	THR	conflict	UNP P03135
3	263	ALA	GLN	conflict	UNP P03135
3	265	THR	-	insertion	UNP P03135
3	706	ALA	ASN	conflict	UNP P03135
3	709	ALA	VAL	conflict	UNP P03135
3	717	ASN	THR	conflict	UNP P03135
4	263	ALA	GLN	conflict	UNP P03135
4	265	THR	-	insertion	UNP P03135
4	706	ALA	ASN	conflict	UNP P03135
4	709	ALA	VAL	conflict	UNP P03135
4	717	ASN	THR	conflict	UNP P03135
5	263	ALA	GLN	conflict	UNP P03135
5	265	THR	-	insertion	UNP P03135
5	706	ALA	ASN	conflict	UNP P03135
5	709	ALA	VAL	conflict	UNP P03135
5	717	ASN	THR	conflict	UNP P03135
a	263	ALA	GLN	conflict	UNP P03135
a	265	THR	-	insertion	UNP P03135

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Chain	Residue	Modelled	Actual	Comment	Reference
a	706	ALA	ASN	conflict	UNP P03135
a	709	ALA	VAL	conflict	UNP P03135
a	717	ASN	THR	conflict	UNP P03135
b	263	ALA	GLN	conflict	UNP P03135
b	265	THR	-	insertion	UNP P03135
b	706	ALA	ASN	conflict	UNP P03135
b	709	ALA	VAL	conflict	UNP P03135
b	717	ASN	THR	conflict	UNP P03135
c	263	ALA	GLN	conflict	UNP P03135
c	265	THR	-	insertion	UNP P03135
c	706	ALA	ASN	conflict	UNP P03135
c	709	ALA	VAL	conflict	UNP P03135
c	717	ASN	THR	conflict	UNP P03135
d	263	ALA	GLN	conflict	UNP P03135
d	265	THR	-	insertion	UNP P03135
d	706	ALA	ASN	conflict	UNP P03135
d	709	ALA	VAL	conflict	UNP P03135
d	717	ASN	THR	conflict	UNP P03135
e	263	ALA	GLN	conflict	UNP P03135
e	265	THR	-	insertion	UNP P03135
e	706	ALA	ASN	conflict	UNP P03135
e	709	ALA	VAL	conflict	UNP P03135
e	717	ASN	THR	conflict	UNP P03135
f	263	ALA	GLN	conflict	UNP P03135
f	265	THR	-	insertion	UNP P03135
f	706	ALA	ASN	conflict	UNP P03135
f	709	ALA	VAL	conflict	UNP P03135
f	717	ASN	THR	conflict	UNP P03135
g	263	ALA	GLN	conflict	UNP P03135
g	265	THR	-	insertion	UNP P03135
g	706	ALA	ASN	conflict	UNP P03135
g	709	ALA	VAL	conflict	UNP P03135
g	717	ASN	THR	conflict	UNP P03135
h	263	ALA	GLN	conflict	UNP P03135
h	265	THR	-	insertion	UNP P03135
h	706	ALA	ASN	conflict	UNP P03135
h	709	ALA	VAL	conflict	UNP P03135
h	717	ASN	THR	conflict	UNP P03135
i	263	ALA	GLN	conflict	UNP P03135
i	265	THR	-	insertion	UNP P03135
i	706	ALA	ASN	conflict	UNP P03135
i	709	ALA	VAL	conflict	UNP P03135

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Chain	Residue	Modelled	Actual	Comment	Reference
i	717	ASN	THR	conflict	UNP P03135
j	263	ALA	GLN	conflict	UNP P03135
j	265	THR	-	insertion	UNP P03135
j	706	ALA	ASN	conflict	UNP P03135
j	709	ALA	VAL	conflict	UNP P03135
j	717	ASN	THR	conflict	UNP P03135
k	263	ALA	GLN	conflict	UNP P03135
k	265	THR	-	insertion	UNP P03135
k	706	ALA	ASN	conflict	UNP P03135
k	709	ALA	VAL	conflict	UNP P03135
k	717	ASN	THR	conflict	UNP P03135
l	263	ALA	GLN	conflict	UNP P03135
l	265	THR	-	insertion	UNP P03135
l	706	ALA	ASN	conflict	UNP P03135
l	709	ALA	VAL	conflict	UNP P03135
l	717	ASN	THR	conflict	UNP P03135
m	263	ALA	GLN	conflict	UNP P03135
m	265	THR	-	insertion	UNP P03135
m	706	ALA	ASN	conflict	UNP P03135
m	709	ALA	VAL	conflict	UNP P03135
m	717	ASN	THR	conflict	UNP P03135
n	263	ALA	GLN	conflict	UNP P03135
n	265	THR	-	insertion	UNP P03135
n	706	ALA	ASN	conflict	UNP P03135
n	709	ALA	VAL	conflict	UNP P03135
n	717	ASN	THR	conflict	UNP P03135
o	263	ALA	GLN	conflict	UNP P03135
o	265	THR	-	insertion	UNP P03135
o	706	ALA	ASN	conflict	UNP P03135
o	709	ALA	VAL	conflict	UNP P03135
o	717	ASN	THR	conflict	UNP P03135
p	263	ALA	GLN	conflict	UNP P03135
p	265	THR	-	insertion	UNP P03135
p	706	ALA	ASN	conflict	UNP P03135
p	709	ALA	VAL	conflict	UNP P03135
p	717	ASN	THR	conflict	UNP P03135
q	263	ALA	GLN	conflict	UNP P03135
q	265	THR	-	insertion	UNP P03135
q	706	ALA	ASN	conflict	UNP P03135
q	709	ALA	VAL	conflict	UNP P03135
q	717	ASN	THR	conflict	UNP P03135
r	263	ALA	GLN	conflict	UNP P03135

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Chain	Residue	Modelled	Actual	Comment	Reference
r	265	THR	-	insertion	UNP P03135
r	706	ALA	ASN	conflict	UNP P03135
r	709	ALA	VAL	conflict	UNP P03135
r	717	ASN	THR	conflict	UNP P03135
s	263	ALA	GLN	conflict	UNP P03135
s	265	THR	-	insertion	UNP P03135
s	706	ALA	ASN	conflict	UNP P03135
s	709	ALA	VAL	conflict	UNP P03135
s	717	ASN	THR	conflict	UNP P03135
t	263	ALA	GLN	conflict	UNP P03135
t	265	THR	-	insertion	UNP P03135
t	706	ALA	ASN	conflict	UNP P03135
t	709	ALA	VAL	conflict	UNP P03135
t	717	ASN	THR	conflict	UNP P03135
u	263	ALA	GLN	conflict	UNP P03135
u	265	THR	-	insertion	UNP P03135
u	706	ALA	ASN	conflict	UNP P03135
u	709	ALA	VAL	conflict	UNP P03135
u	717	ASN	THR	conflict	UNP P03135
v	263	ALA	GLN	conflict	UNP P03135
v	265	THR	-	insertion	UNP P03135
v	706	ALA	ASN	conflict	UNP P03135
v	709	ALA	VAL	conflict	UNP P03135
v	717	ASN	THR	conflict	UNP P03135
w	263	ALA	GLN	conflict	UNP P03135
w	265	THR	-	insertion	UNP P03135
w	706	ALA	ASN	conflict	UNP P03135
w	709	ALA	VAL	conflict	UNP P03135
w	717	ASN	THR	conflict	UNP P03135
x	263	ALA	GLN	conflict	UNP P03135
x	265	THR	-	insertion	UNP P03135
x	706	ALA	ASN	conflict	UNP P03135
x	709	ALA	VAL	conflict	UNP P03135
x	717	ASN	THR	conflict	UNP P03135
y	263	ALA	GLN	conflict	UNP P03135
y	265	THR	-	insertion	UNP P03135
y	706	ALA	ASN	conflict	UNP P03135
y	709	ALA	VAL	conflict	UNP P03135
y	717	ASN	THR	conflict	UNP P03135
z	263	ALA	GLN	conflict	UNP P03135
z	265	THR	-	insertion	UNP P03135
z	706	ALA	ASN	conflict	UNP P03135

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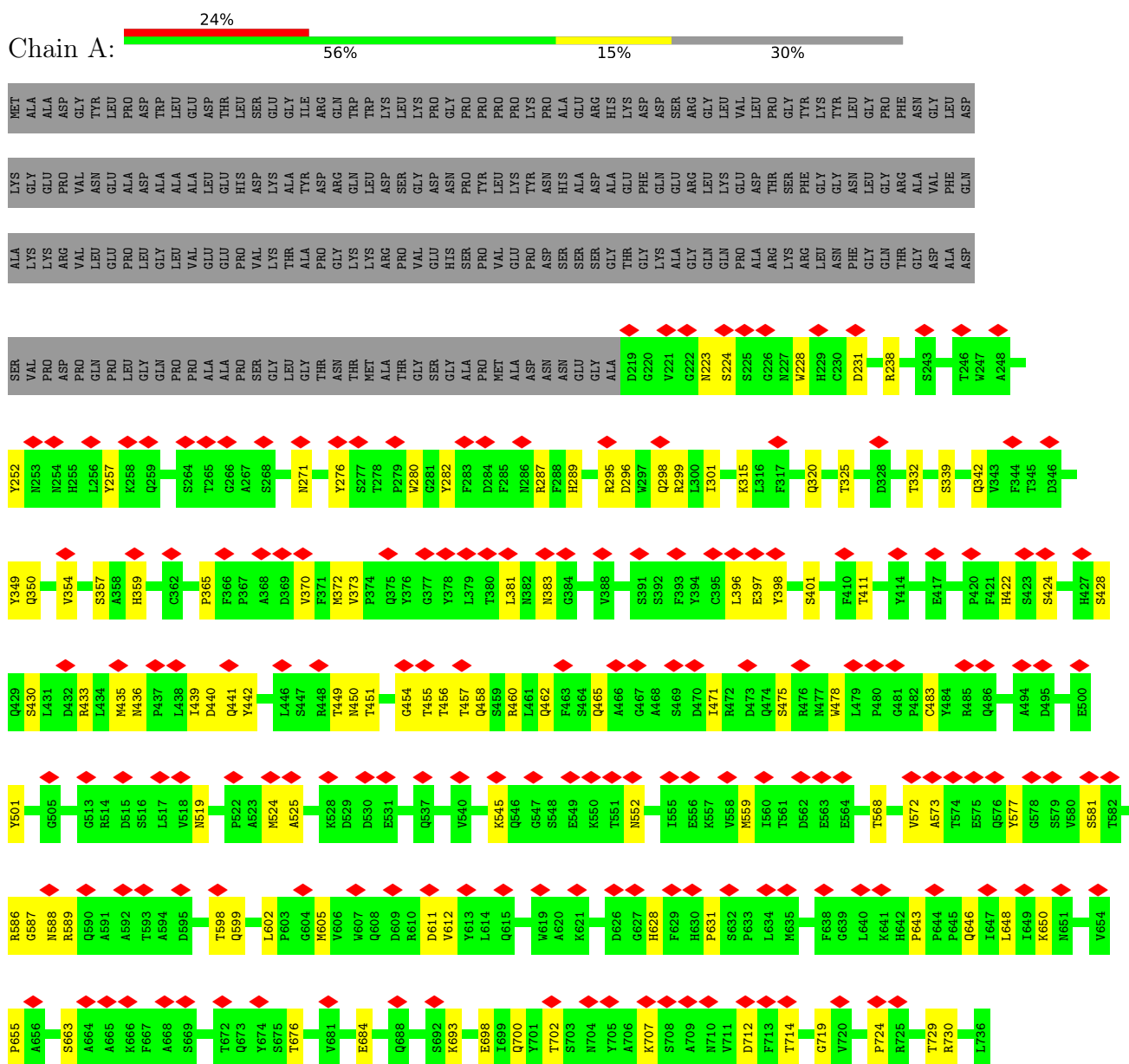
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Chain	Residue	Modelled	Actual	Comment	Reference
z	709	ALA	VAL	conflict	UNP P03135
z	717	ASN	THR	conflict	UNP P03135
6	263	ALA	GLN	conflict	UNP P03135
6	265	THR	-	insertion	UNP P03135
6	706	ALA	ASN	conflict	UNP P03135
6	709	ALA	VAL	conflict	UNP P03135
6	717	ASN	THR	conflict	UNP P03135
7	263	ALA	GLN	conflict	UNP P03135
7	265	THR	-	insertion	UNP P03135
7	706	ALA	ASN	conflict	UNP P03135
7	709	ALA	VAL	conflict	UNP P03135
7	717	ASN	THR	conflict	UNP P03135

3 Residue-property plots

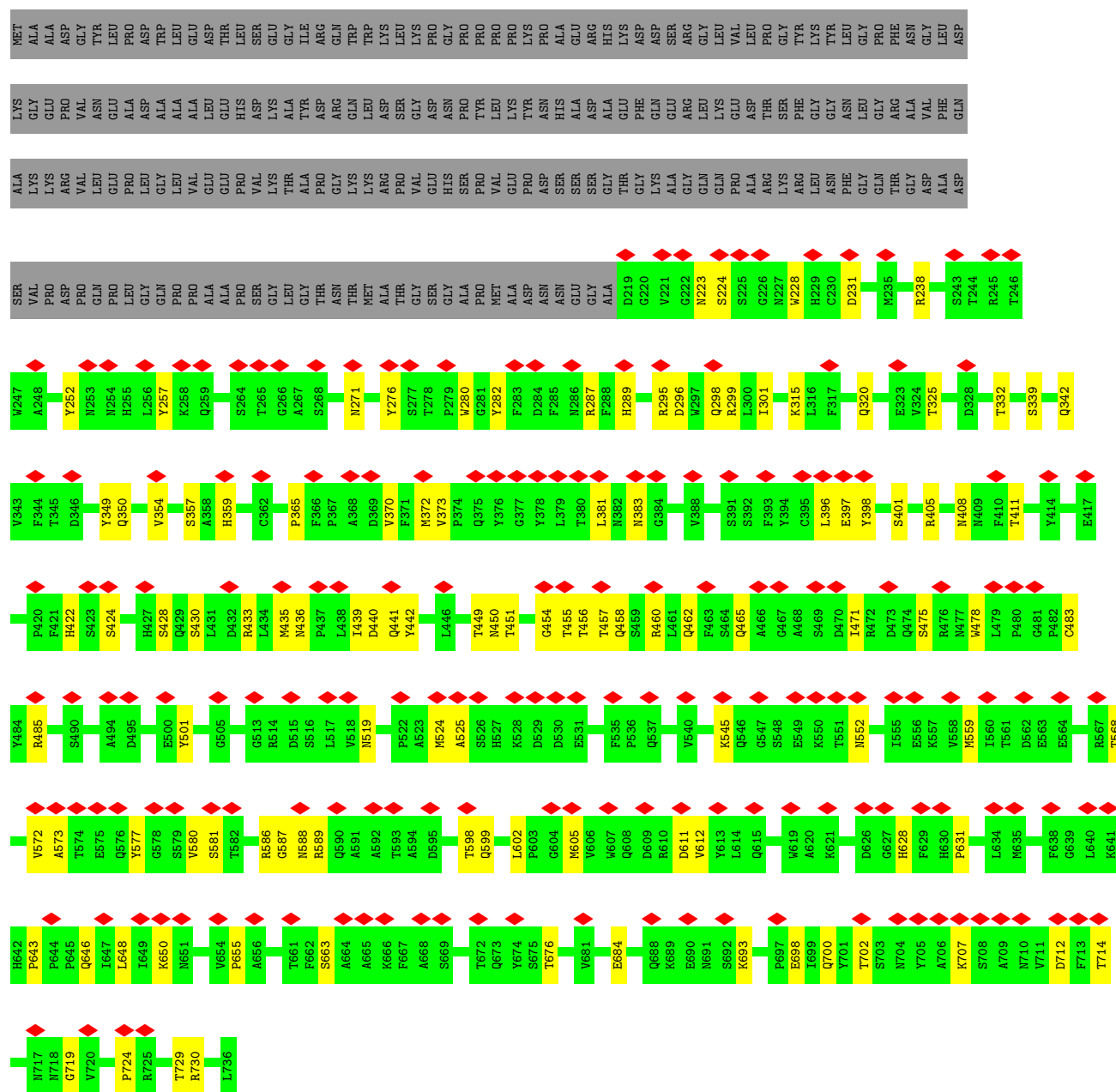
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

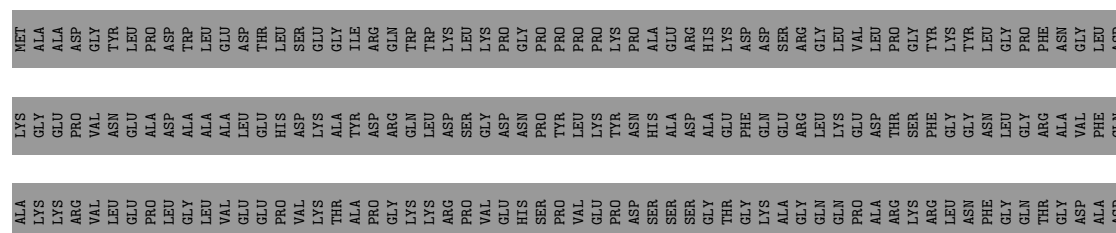


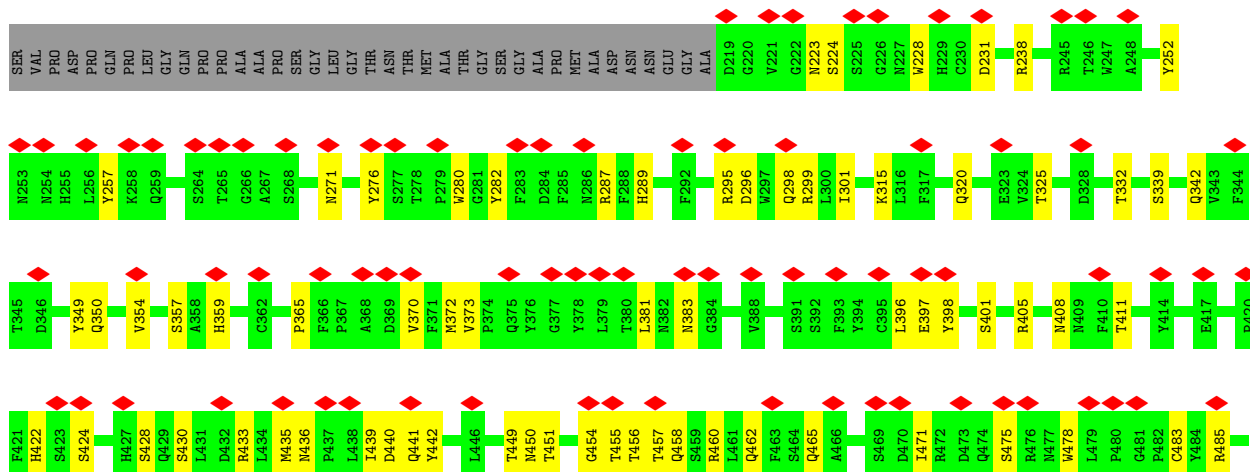
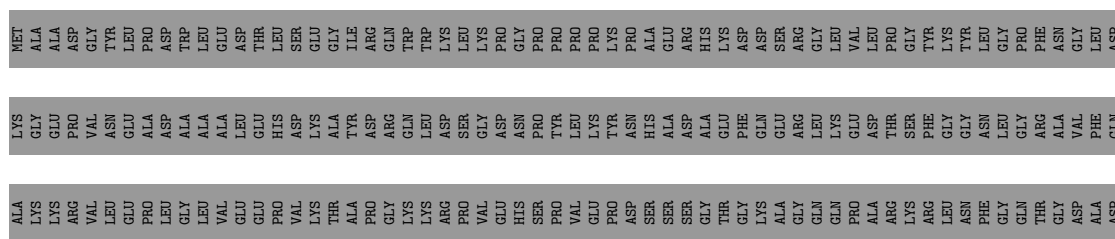
• Molecule 1: Capsid protein VP1

Chain B:



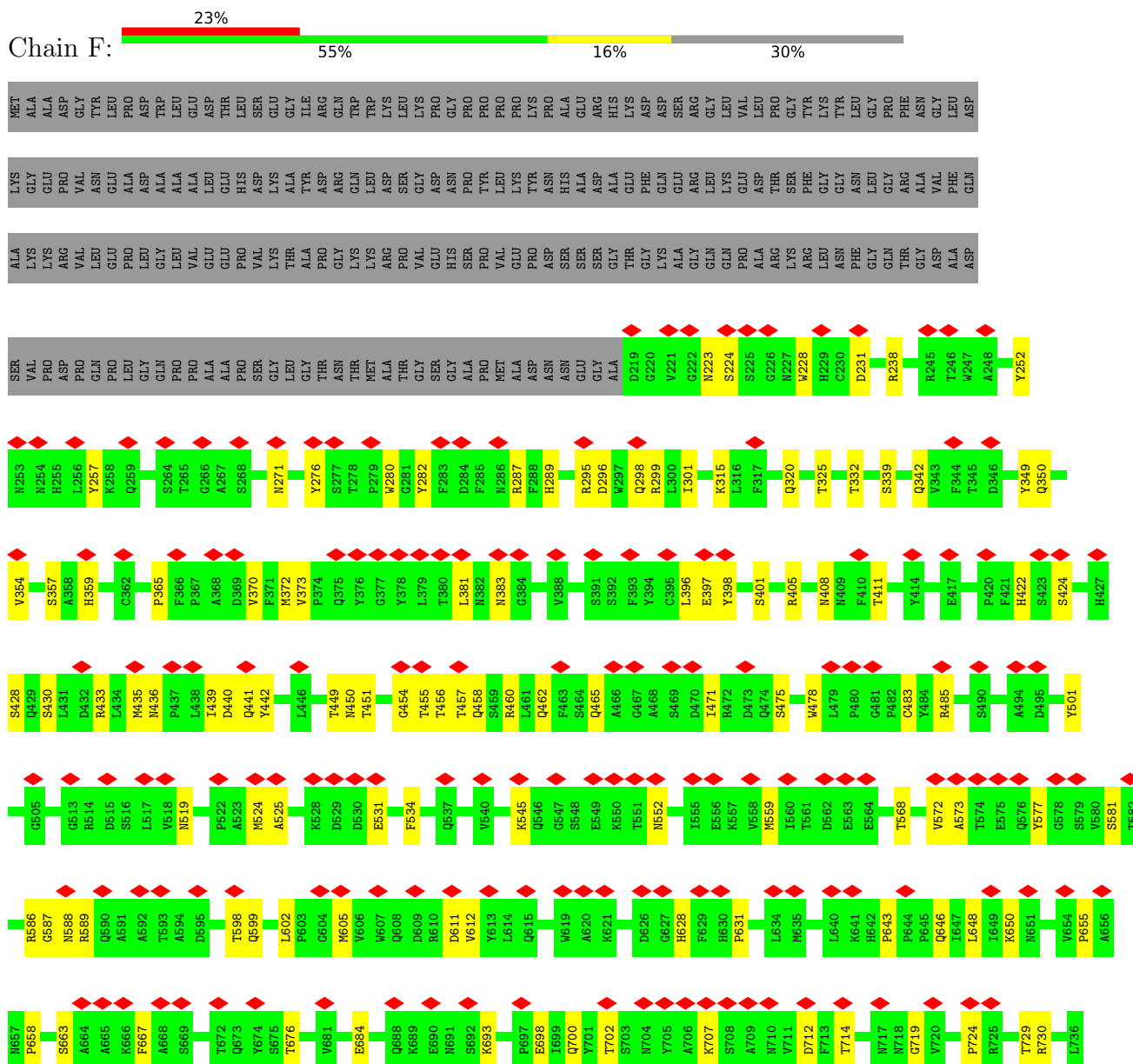
Chain C:





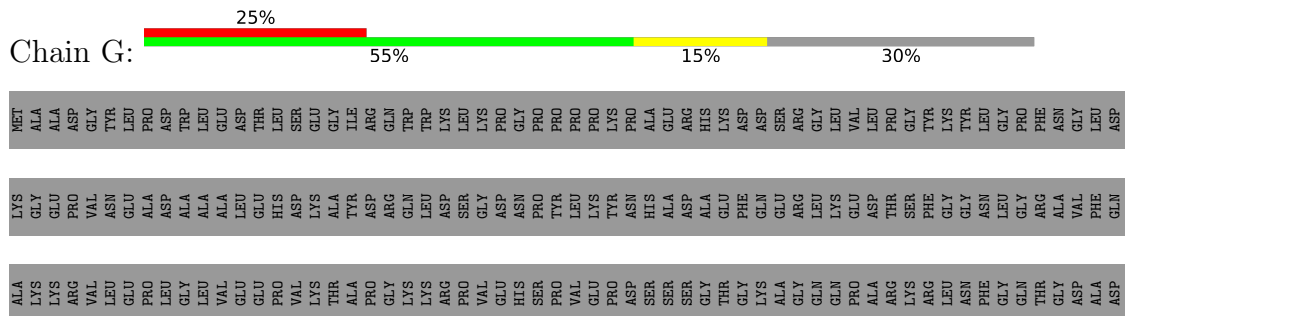
• Molecule 1: Capsid protein VP1

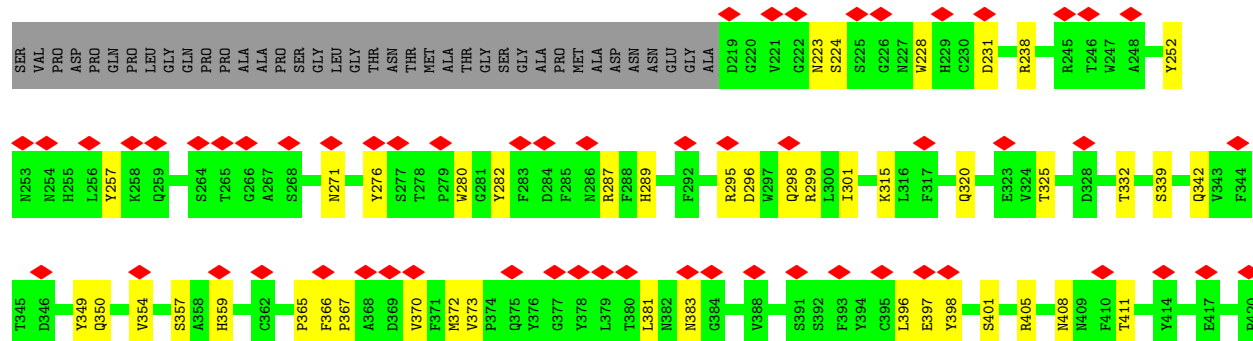
Chain F:

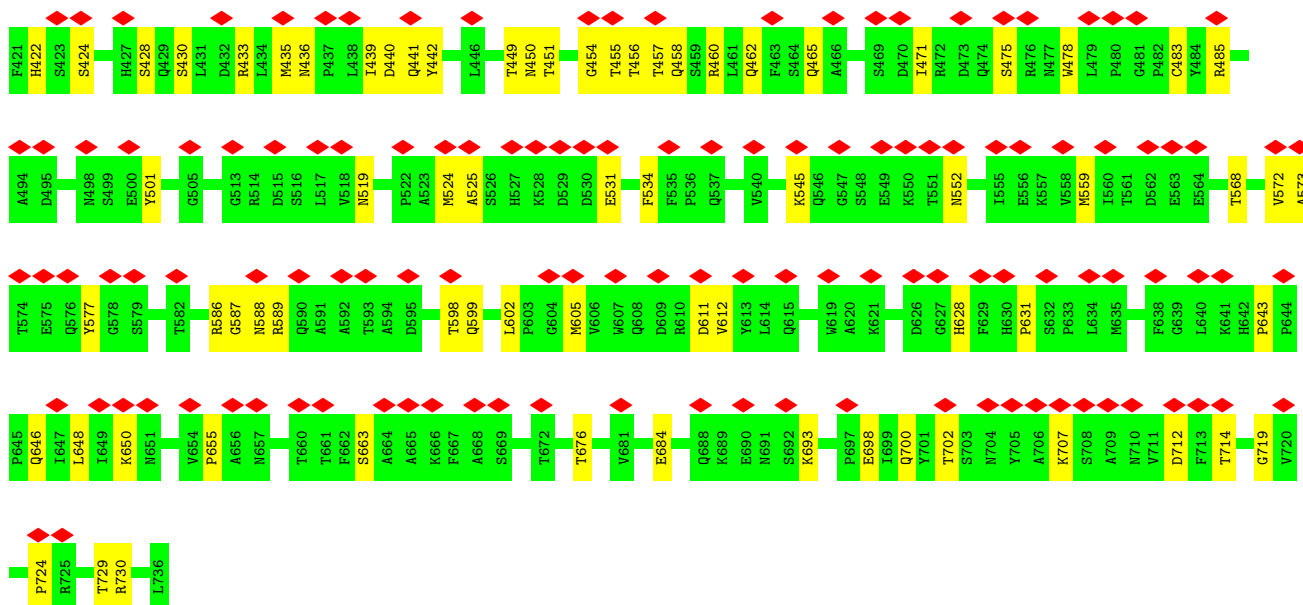


• Molecule 1: Capsid protein VP1

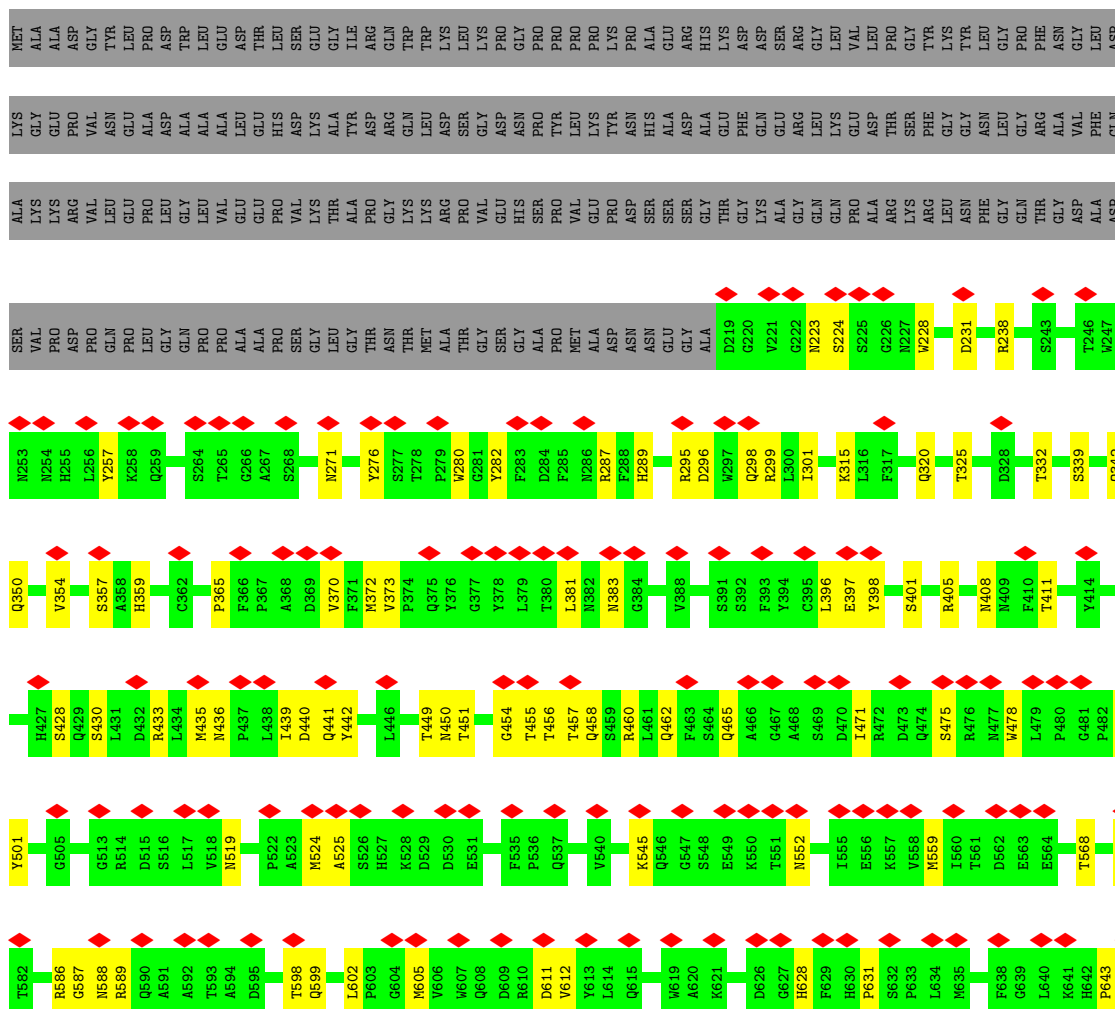
Chain G:

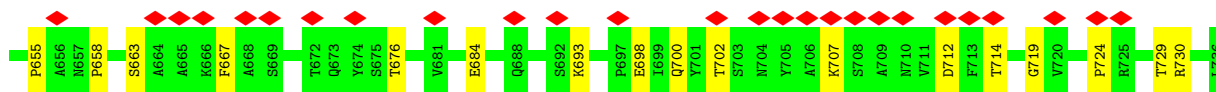




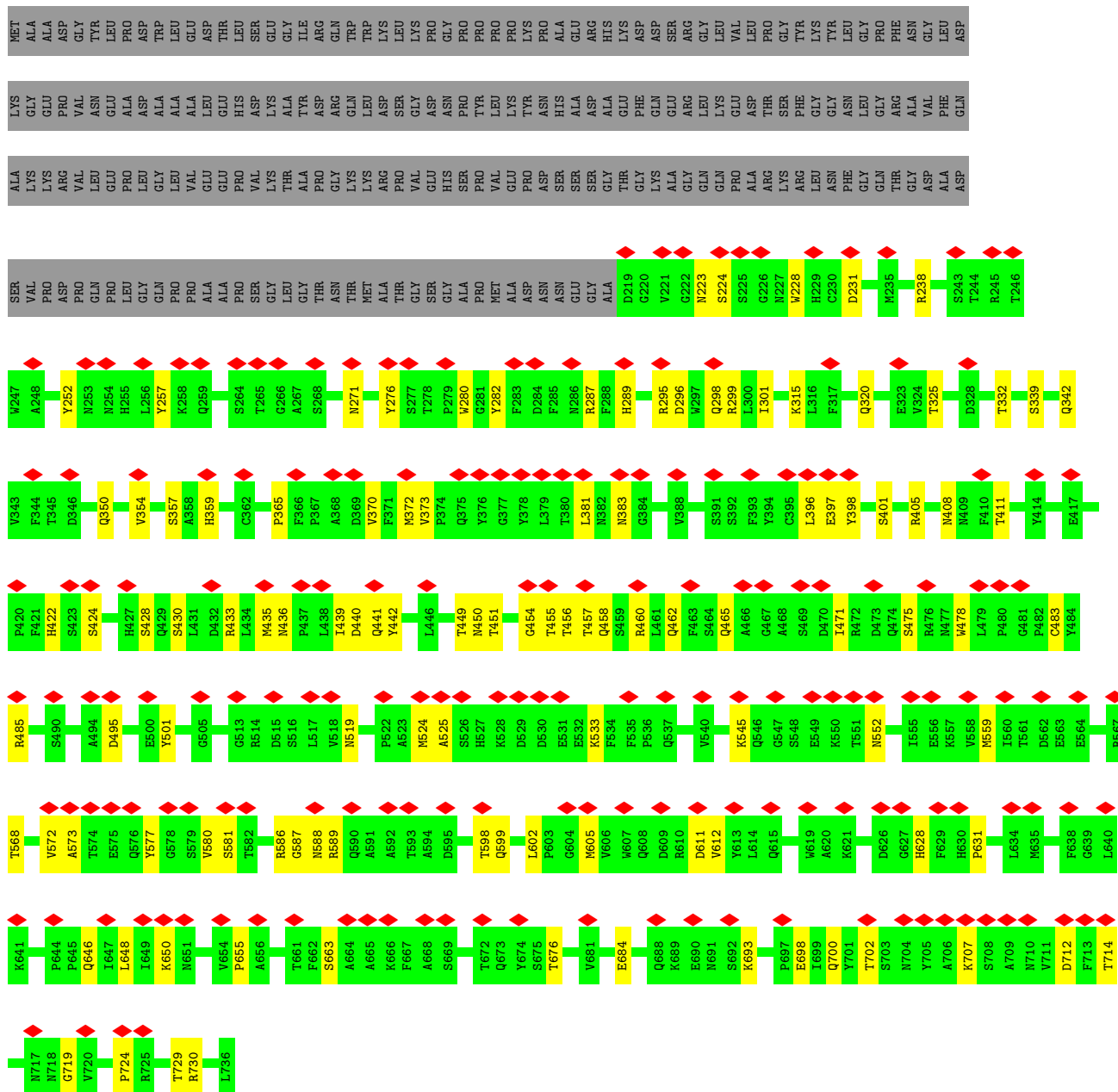


- Molecule 1: Capsid protein VP1

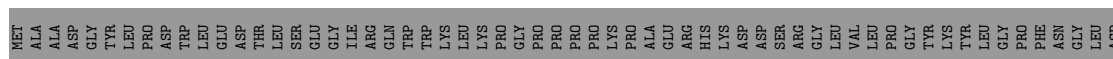


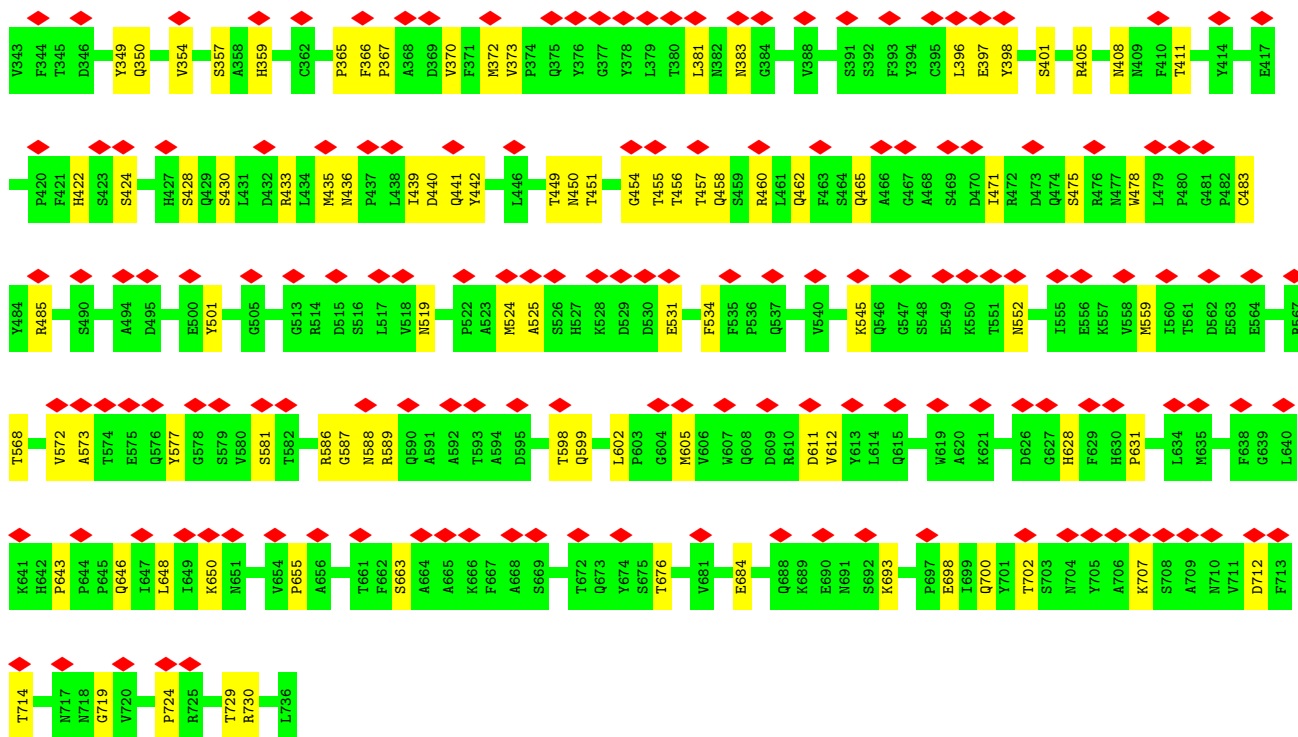


- Molecule 1: Capsid protein VP1

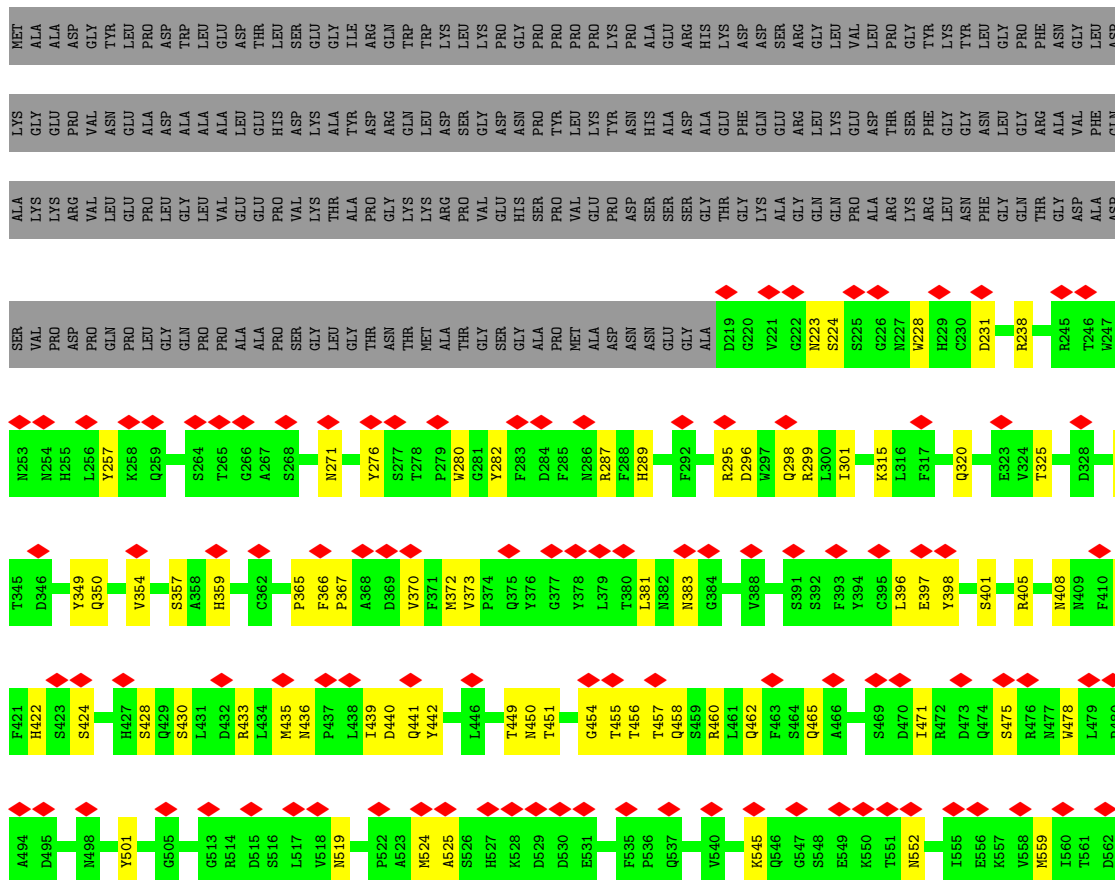


- Molecule 1: Capsid protein VP1

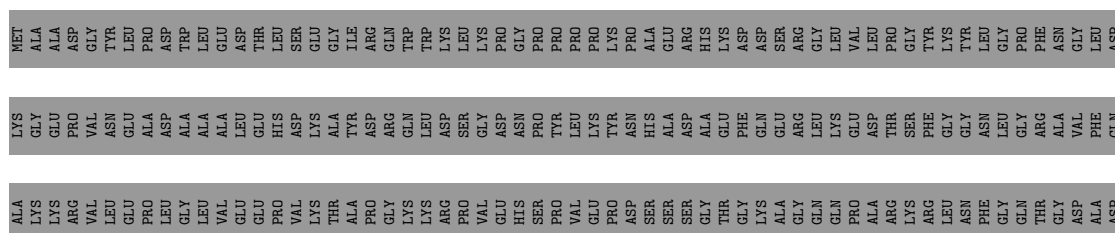


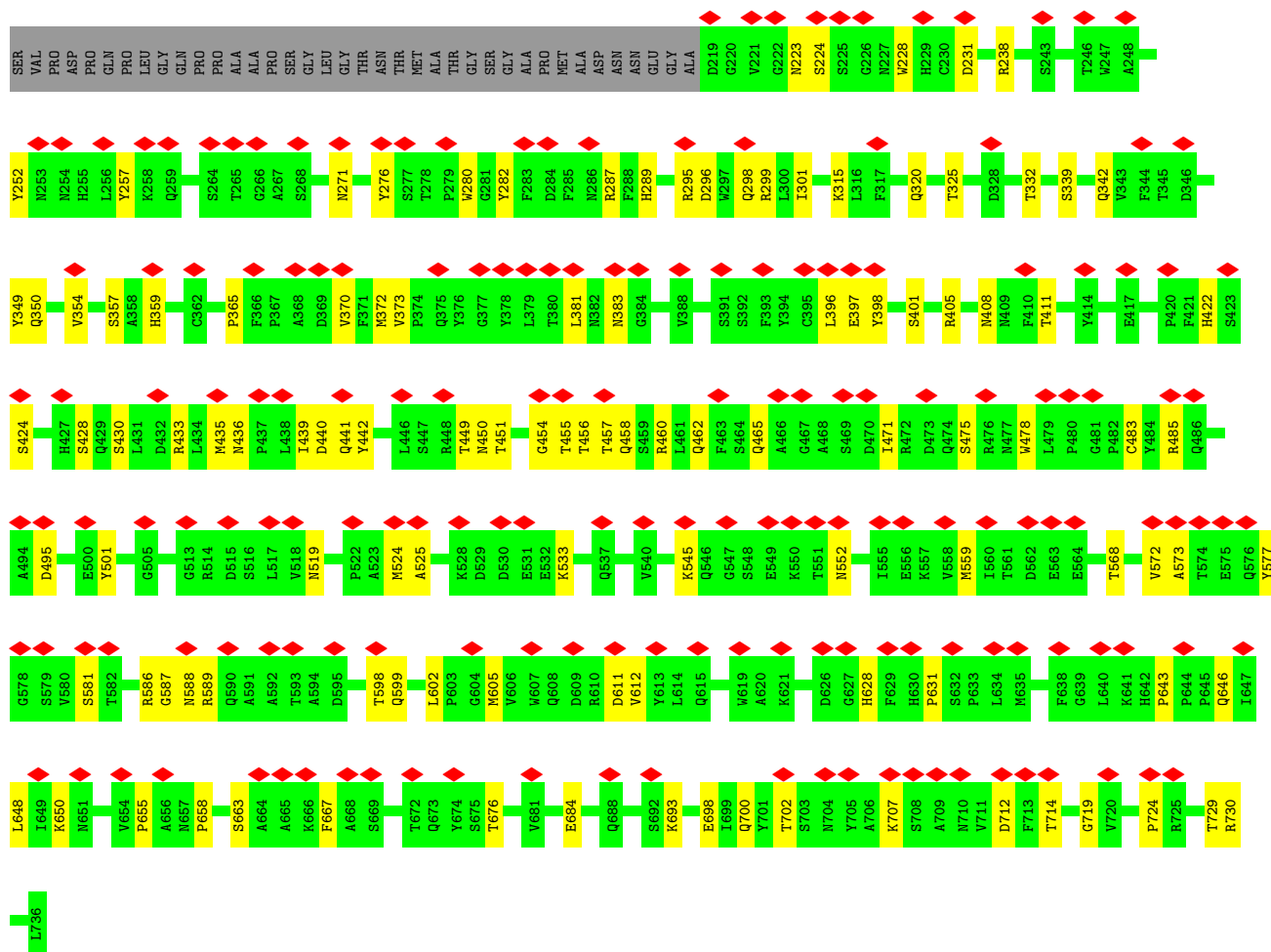


- Molecule 1: Capsid protein VP1

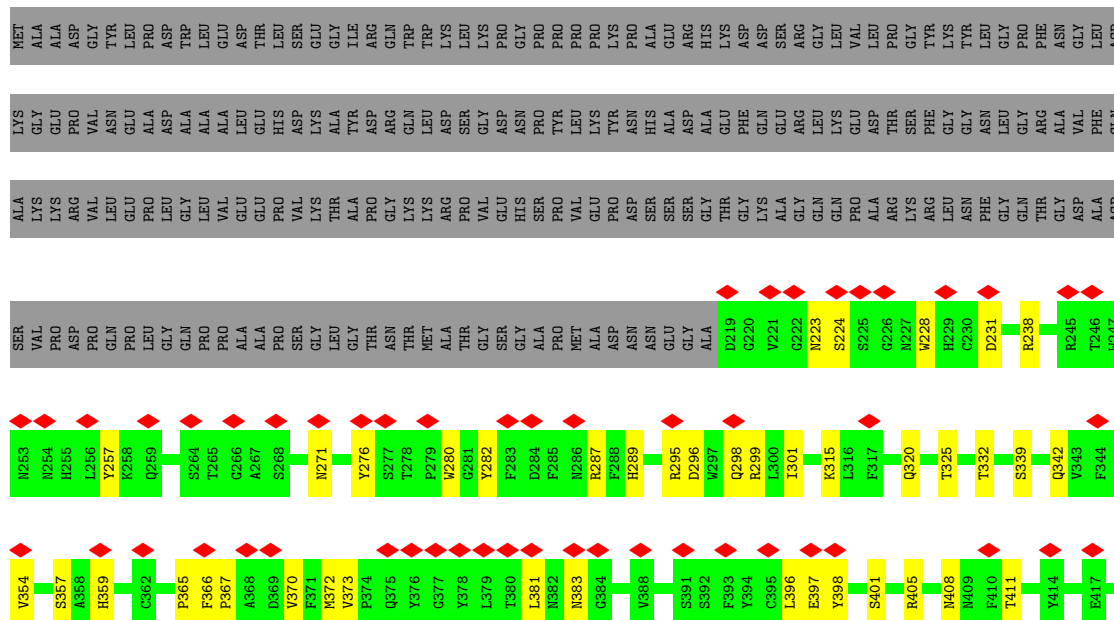


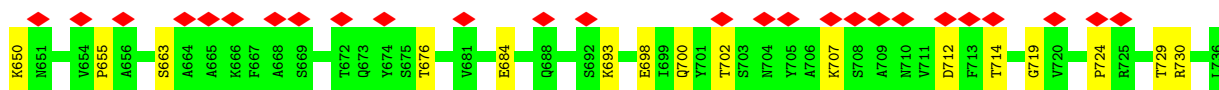






• Molecule 1: Capsid protein VP1





Chain S:



MET	ALA	ALA	ALA	GLY	TYR	LEU	PRO	ASP	ASP	LEU	GLU	ASP	THR	LEU	SER	GLU	GLY	ILE	ARG	GLN	TRP	TRP	TRP	LYS	LEU	LYS	PRO	PRO	GLY	PRO	PRO	PRO	PRO	LYS	PRO	PRO	ALA	GLU	ALA	ARG	ARG	HIS	LYS	LYS	ASP	ASP	ASP	SER	ARG	GLY	LEU	VAL	LEU	PRO	PRO	GLY	TYR	LYS	TYR	TYR	LEU	GLY	PRO	PHE	ASN	GLY	GLY	LEU	LEU	ASP
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LYS	GLY	GLU	PRO	VAL	ASN	GLU	ALA	ALA	ALA	LEU	GLU	HIS	ASP	ALA	LYS	ASP	GLY	ASP	ASN	PRO	TYR	LEU	LYS	TYR	HIS	ALA	ASP	GLU	ARG	LEU	LYS	GLU	THR	ASP	SER	PHE	GLY	GLY	ASN	LEU	GLY	ARG	ALA	VAL	PHE	FIN
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ALA	LYS	ARG	VAL	LEU	GLU	PRO	LEU	GLY	VAL	VAL	LYS	THR	ALA	PRO	ARG	VAL	GLU	GLY	SER	PRO	VAL	VAL	GLU	PRO	ASP	SER	SER	SER	GLY	THR	LYS	ALA	ALA	GLY	GLN	GLN	PRO	PRO	ASN	PHE	GLY	GLN	THR	GLY	ASP	ALA	ASP
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

SER	VAL	PRO	ASP	GLN	PRO	LEU	GLY	GLN	PRO	PRO	ALA	ALA	PRO	SER	GLY	LEU	GLY	THR	THR	ASN	THR	MET	ALA	THR	GLY	SER	SER	GLY	GLY	ALA	PRO	MET	ALA	ASP	ASN	ASN	GLU	GLY	ALA	D219	D220	V221	D222	N223	S224	S225	S226	N227	D228	H229	D230	D231	R238	R245	T246	V247	D248	V252
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N253	N254	N255	N256	N257	N258	N259	N260	N261	N262	N263	N264	N265	N266	N267	N268	N269	N270	N271	N272	N273	N274	N275	N276	N277	N278	N279	N280	N281	N282	N283	N284	N285	N286	N287	N288	N289	N290	N291	N292	N293	N294	N295	N296	N297	N298	N299	N300	N301	N302	N303	N304	N305	N306	N307	N308	N309	N310	N311	N312	N313	N314	N315	N316	N317	N318	N319	N320	N321	N322	N323	N324	N325	N326	N327	N328	N329	N330	N331	N332	N333	N334	N335	N336	N337	N338	N339	N340	N341	N342	N343	N344	N345	N346	N347	N348	N349	N350	N351	N352	N353	N354	N355	N356	N357	N358	N359	N360	N361	N362	N363	N364	N365	N366	N367	N368	N369	N370	N371	N372	N373	N374	N375	N376	N377	N378	N379	N380	N381	N382	N383	N384	N385	N386	N387	N388	N389	N390	N391	N392	N393	N394	N395	N396	N397	N398	N399	N400	N401	N402	N403	N404	N405	N406	N407	N408	N409	N410	N411	N412	N413	N414	N415	N416	N417	N418	N419	N420	N421	N422	N423	N424	N425	N426	N427	N428	N429	N430	N431	N432	N433	N434	N435	N436	N437	N438	N439	N440	N441	N442	N443	N444	N445	N446	N447	N448	N449	N450	N451	N452	N453	N454	N455	N456	N457	N458	N459	N460	N461	N462	N463	N464	N465	N466	N467	N468	N469	N470	N471	N472	N473	N474	N475	N476	N477	N478	N479	N480	N481	N482	N483	N484	N485	N486	N487	N488	N489	N490	N491	N492	N493	N494	N495	N496	N497	N498	N499	N500	N501	N502	N503	N504	N505	N506	N507	N508	N509	N510	N511	N512	N513	N514	N515	N516	N517	N518	N519	N520	N521	N522	N523	N524	N525	N526	N527	N528	N529	N530	N531	N532	N533	N534	N535	N536	N537	N538	N539	N540	N541	N542	N543	N544	N545	N546	N547	N548	N549	N550	N551	N552	N553	N554	N555	N556	N557	N558	N559	N560	N561	N562	N563	N564	N565	N566	N567	N568	N569	N570	N571	N572	N573	N574	N575	N576	N577	N578	N579	N580	N581	N582	N583	N584	N585	N586	N587	N588	N589	N590	N591	N592	N593	N594	N595	N596	N597	N598	N599	N600	N601	N602	N603	N604	N605	N606	N607	N608	N609	N610	N611	N612	N613	N614	N615	N616	N617	N618	N619	N620	N621	N622	N623	N624	N625	N626	N627	N628	N629	N630	N631	N632	N633	N634	N635	N636	N637	N638	N639	N640	N641	N642	N643	N644	N645	N646	N647	N648	N649	N650	N651	N652	N653	N654	N655	N656	N657	N658	N659	N660	N661	N662	N663	N664	N665	N666	N667	N668	N669	N670	N671	N672	N673	N674	N675	N676	N677	N678	N679	N680	N681	N682	N683	N684	N685	N686	N687	N688	N689	N690	N691	N692	N693	N694	N695	N696	N697	N698	N699	N700	N701	N702	N703	N704	N705	N706	N707	N708	N709	N710	N711	N712	N713	N714	N715	N716	N717	N718	N719	N720	N721	N722	N723	N724	N725	N726	N727	N728	N729	N730	N731	N732	N733	N734	N735	N736	N737	N738	N739	N740	N741	N742	N743	N744	N745	N746	N747	N748	N749	N750	N751	N752	N753	N754	N755	N756	N757	N758	N759	N760	N761	N762	N763	N764	N765	N766	N767	N768	N769	N770	N771	N772	N773	N774	N775	N776	N777	N778	N779	N780	N781	N782	N783	N784	N785	N786	N787	N788	N789	N790	N791	N792	N793	N794	N795	N796	N797	N798	N799	N800	N801	N802	N803	N804	N805	N806	N807	N808	N809	N810	N811	N812	N813	N814	N815	N816	N817	N818	N819	N820	N821	N822	N823	N824	N825	N826	N827	N828	N829	N830	N831	N832	N833	N834	N835	N836	N837	N838	N839	N840	N841	N842	N843	N844	N845	N846	N847	N848	N849	N850	N851	N852	N853	N854	N855	N856	N857	N858	N859	N860	N861	N862	N863	N864	N865	N866	N867	N868	N869	N870	N871	N872	N873	N874	N875	N876	N877	N878	N879	N880	N881	N882	N883	N884	N885	N886	N887	N888	N889	N890	N891	N892	N893	N894	N895	N896	N897	N898	N899	N900	N901	N902	N903	N904	N905	N906	N907	N908	N909	N910	N911	N912	N913	N914	N915	N916	N917	N918	N919	N920	N921	N922	N923	N924	N925	N926	N927	N928	N929	N930	N931	N932	N933	N934	N935	N936	N937	N938	N939	N940	N941	N942	N943	N944	N945	N946	N947	N948	N949	N950	N951	N952	N953	N954	N955	N956	N957	N958	N959	N960	N961	N962	N963	N964	N965	N966	N967	N968	N969	N970	N971	N972	N973	N974	N975	N976	N977	N978	N979	N980	N981	N982	N983	N984	N985	N986	N987	N988	N989	N990	N991	N992	N993	N994	N995	N996	N997	N998	N999	N1000
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Year	Country	Value	Color
1995	United States	1345	Red
1996	United States	1346	Red
1997	United States	1349	Yellow
1998	United States	1350	Yellow
1999	United States	1354	Red
2000	United States	1357	Red
2001	United States	1358	Green
2002	United States	1359	Red
2003	United States	1362	Red
2004	United States	1365	Yellow
2005	United States	1366	Yellow
2006	United States	1367	Yellow
2007	United States	1368	Red
2008	United States	1369	Red
2009	United States	1370	Red
2010	United States	1371	Yellow
2011	United States	1372	Yellow
2012	United States	1373	Yellow
2013	United States	1374	Red
2014	United States	1375	Red
2015	United States	1376	Yellow
2016	United States	1377	Yellow
2017	United States	1378	Yellow
2018	United States	1379	Red
2019	United States	1380	Red
2020	United States	1381	Yellow
2021	United States	1382	Green
2022	United States	1383	Green
2023	United States	1384	Yellow
2024	United States	1386	Red
2025	United States	1391	Yellow
2026	United States	1392	Yellow
2027	United States	1393	Yellow
2028	United States	1394	Yellow
2029	United States	1395	Yellow
2030	United States	1396	Yellow
2031	United States	1397	Yellow
2032	United States	1398	Red
2033	United States	1401	Yellow
2034	United States	1405	Yellow
2035	United States	1408	Yellow
2036	United States	1409	Green
2037	United States	1410	Red
2038	United States	1411	Yellow
2039	United States	1414	Red
2040	United States	1417	Red
2041	United States	1418	Red
2042	United States	1419	Red
2043	United States	1420	Red
2044	United States	1421	Red
2045	United States	1422	Red
2046	United States	1423	Red
2047	United States	1424	Red
2048	United States	1425	Red
2049	United States	1426	Red
2050	United States	1427	Red

H421	H422	H423	H424	H427	H428	H430	H431	H432	H433	H434	H435	H436	H437	H438	H439	H440	H441	H442	L446	T449	N450	T451	G454	T455	T456	T457	Q458	G459	R460	L461	Q462	F463	G464	Q465	A466	S469	D470	L471	R472	D473	Q474	S475	R476	H477	L478	L479	P480	G481	P482	C483	Y484	R485
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A494	D495	N498	S499	E500	Y501	G505	G513	S514	D515	S516	L517	V518	N519	P522	A523	M524	A525	S526	H527	K528	D529	D530	E531	F535	P536	Q537	V540	K545	Q546	G547	S548	E549	K550	T551	N552	T555	E556	K557	V558	M559	T560	T561	D562	E563	E564	T568	V572	A573	T574
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E575	Q576	Y577	G578	S579	V580	S581	T582	R586	S587	N588	R589	Q590	A591	A592	T593	A594	D596	T598	Q599	L602	P603	G604	M605	V606	M607	G608	D609	R610	D611	V612	P613	L614	G615	M619	A620	K621	D626	G627	G628	F629	H630	P631	S632	P633	L634	M635	F638	G639	L640	G641	H642	P643	P644
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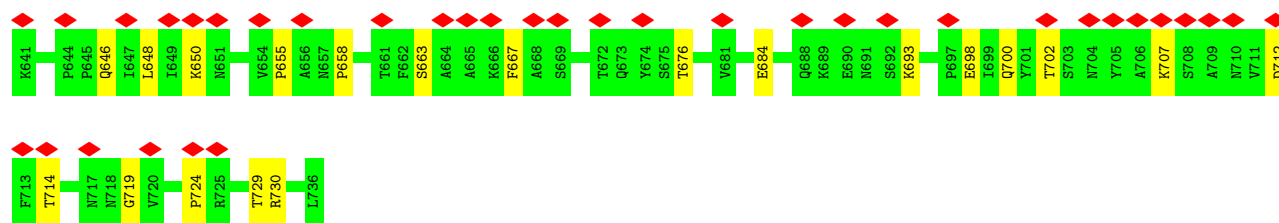
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Diagram illustrating a protein structure with residues P724, R725, T729, R730, and L736 highlighted in yellow and green boxes. Red diamonds are positioned above P724 and R725.

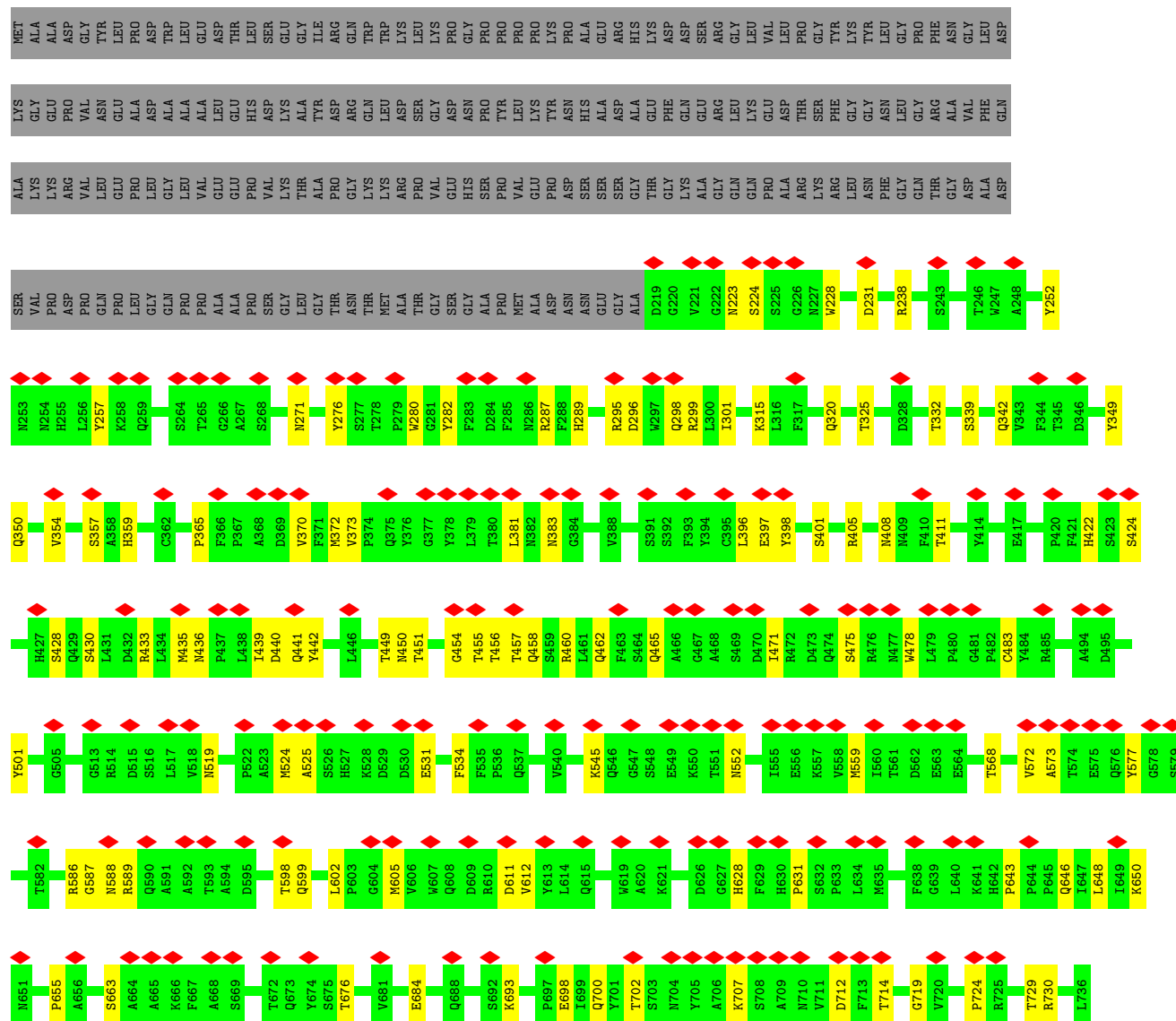
Chain T:

[illegible]

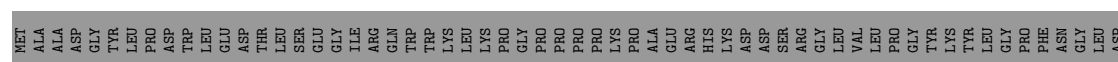
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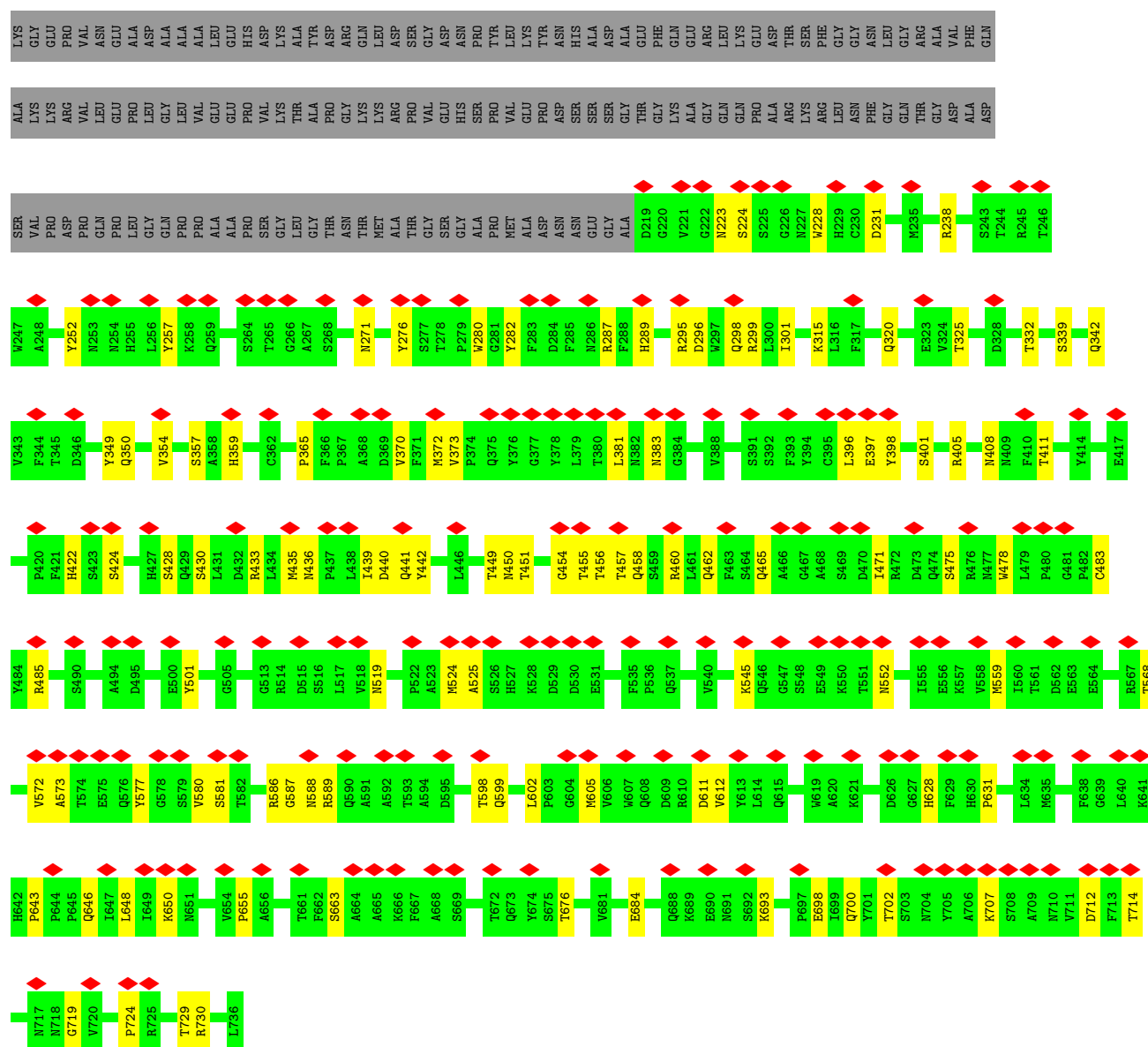


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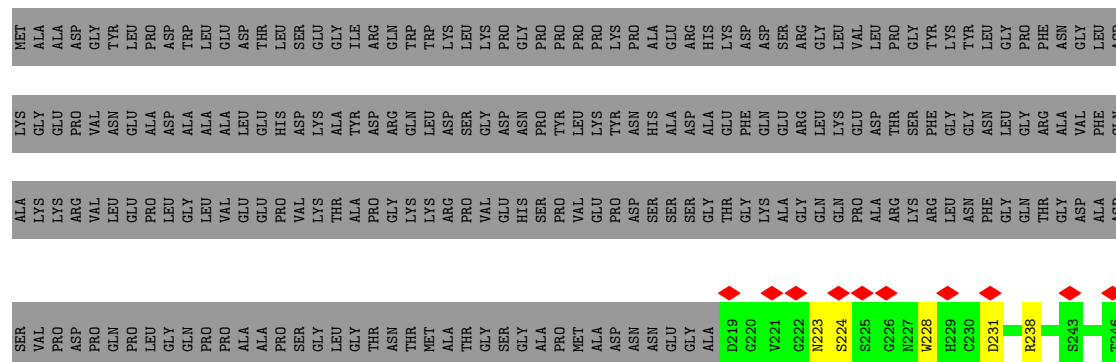


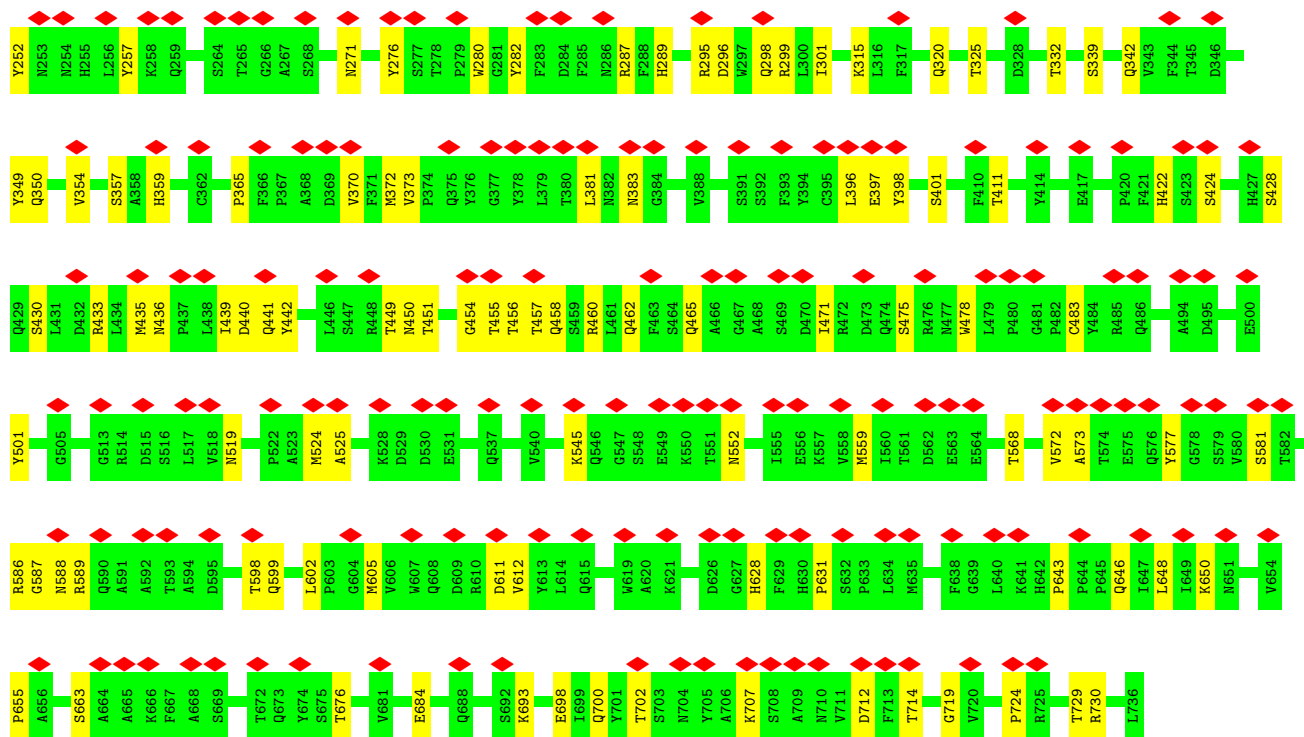
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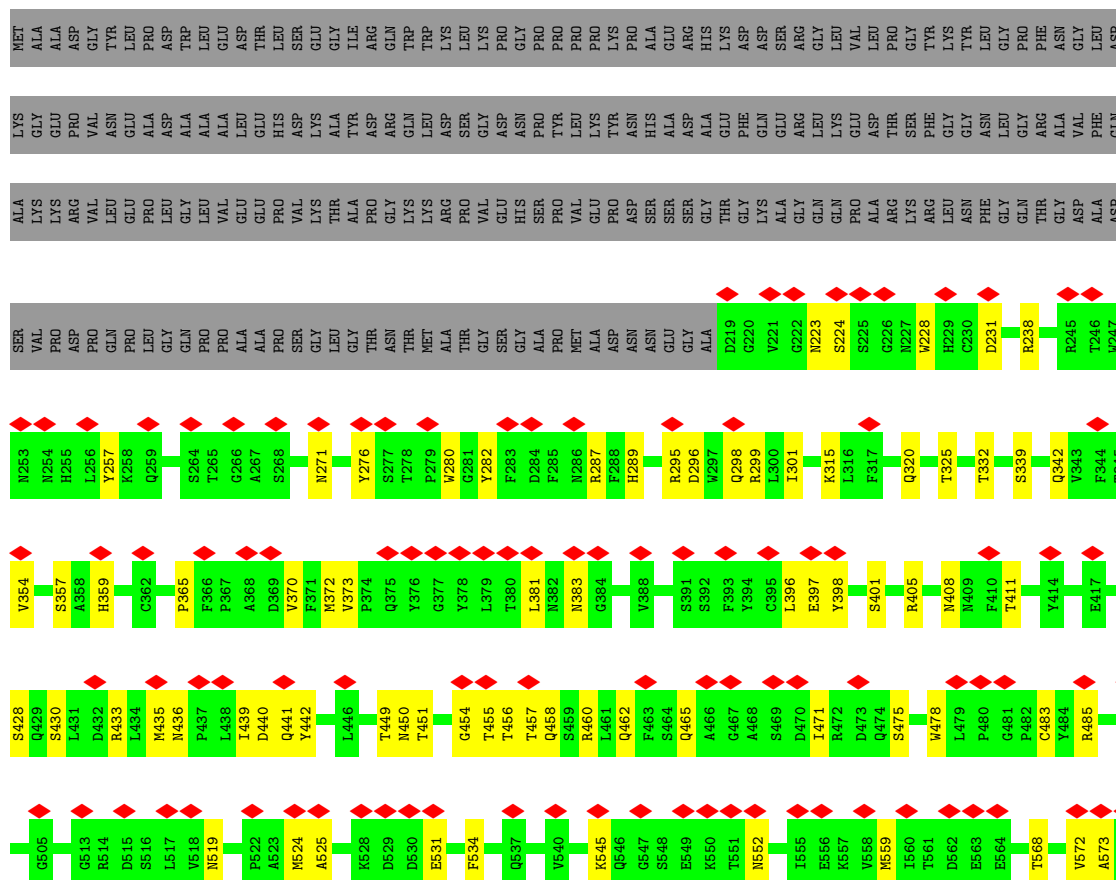


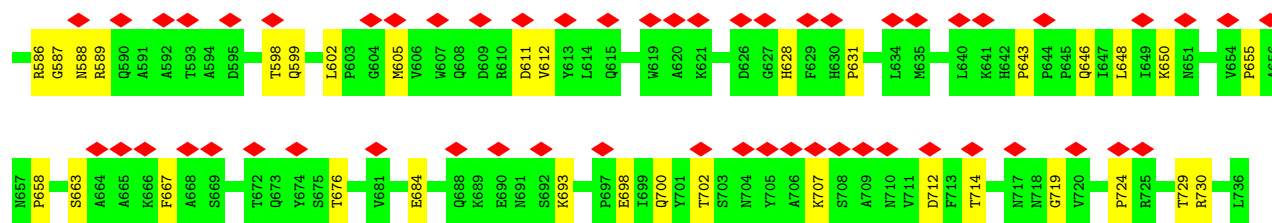
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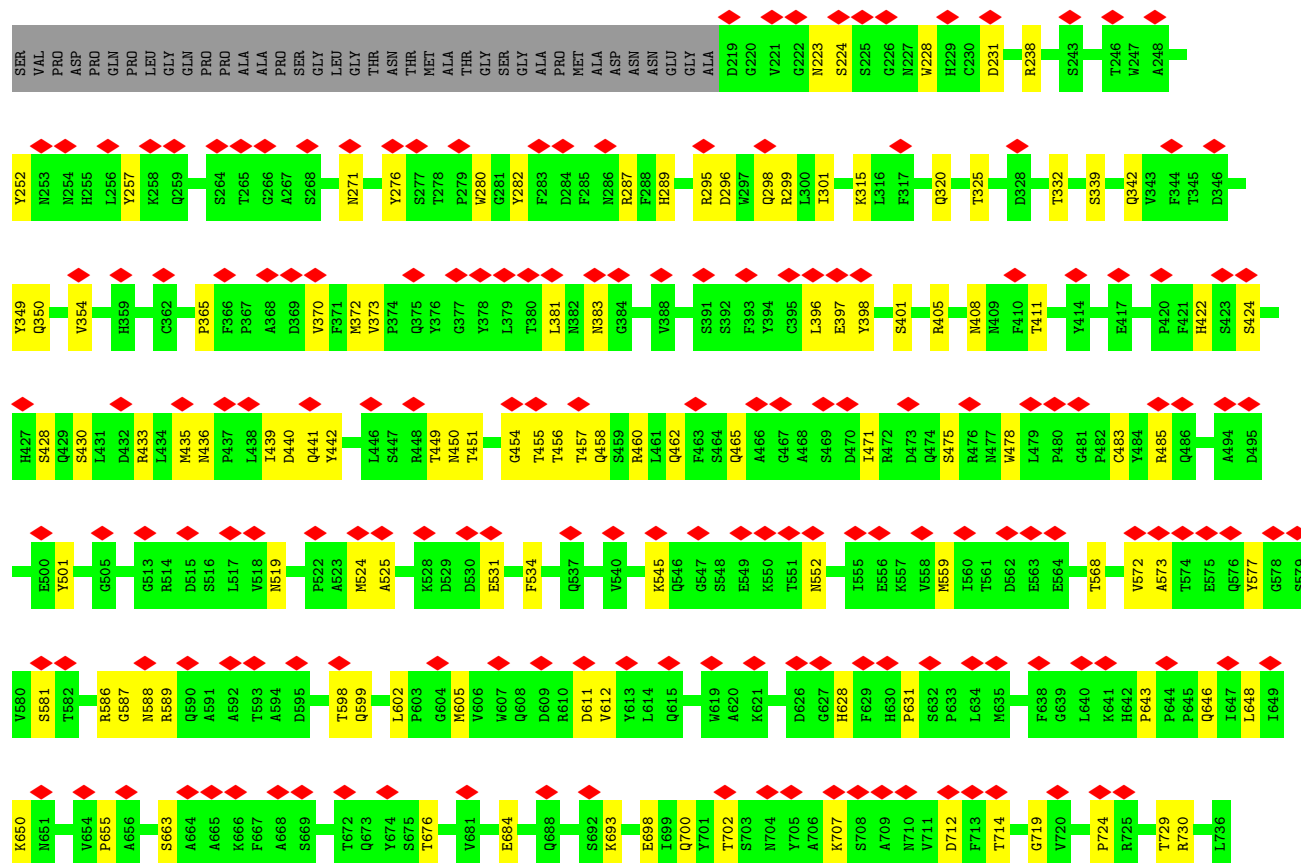
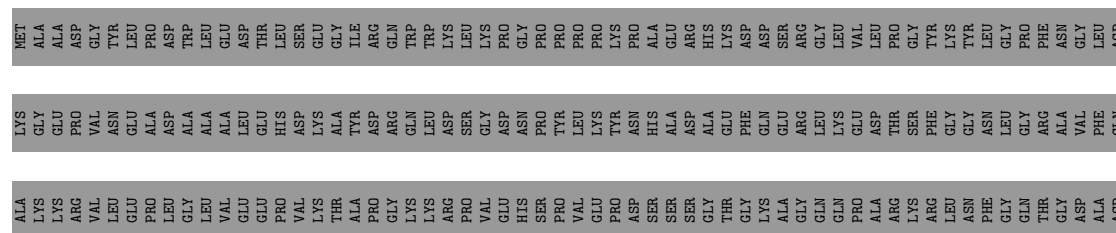


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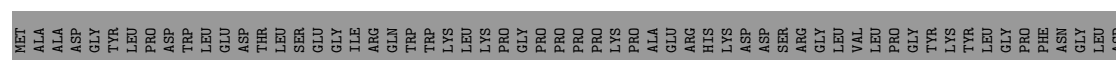


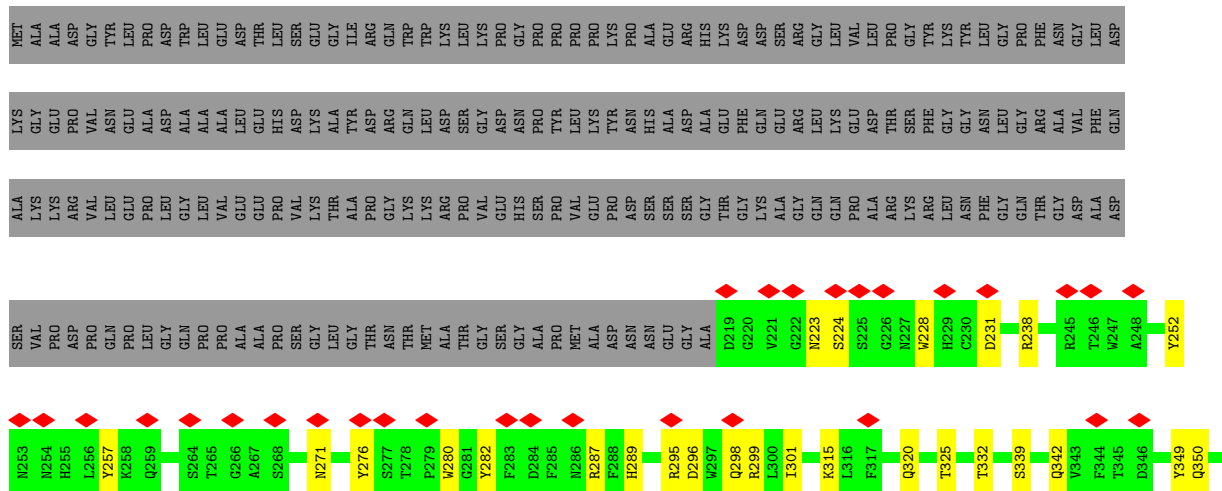


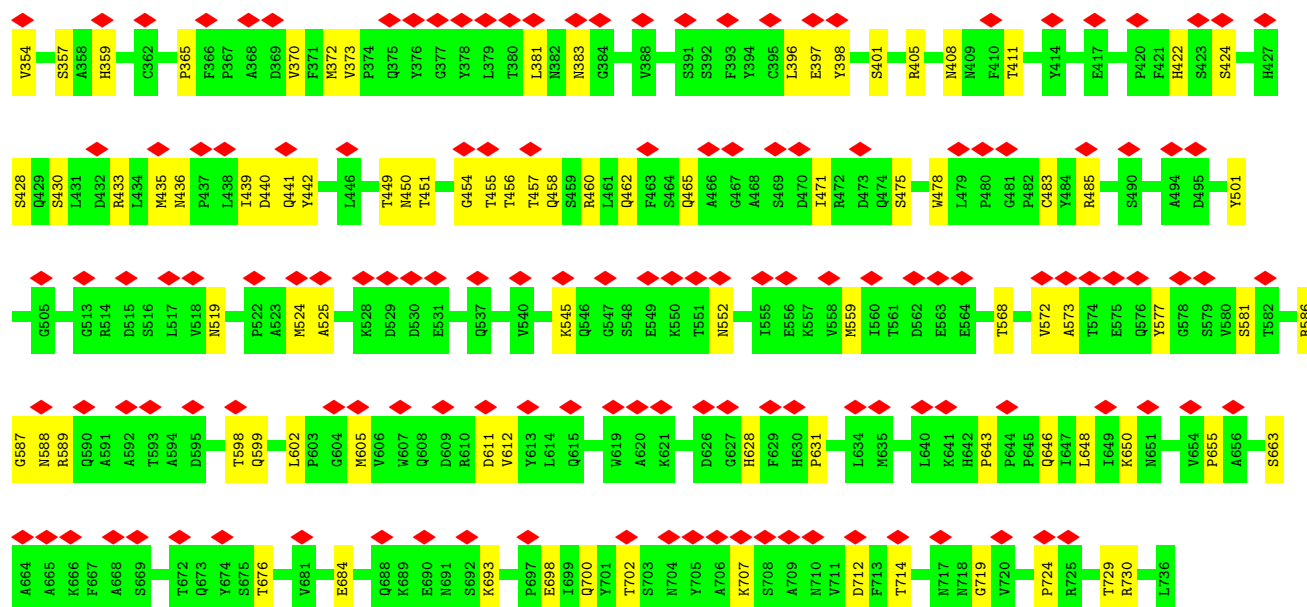
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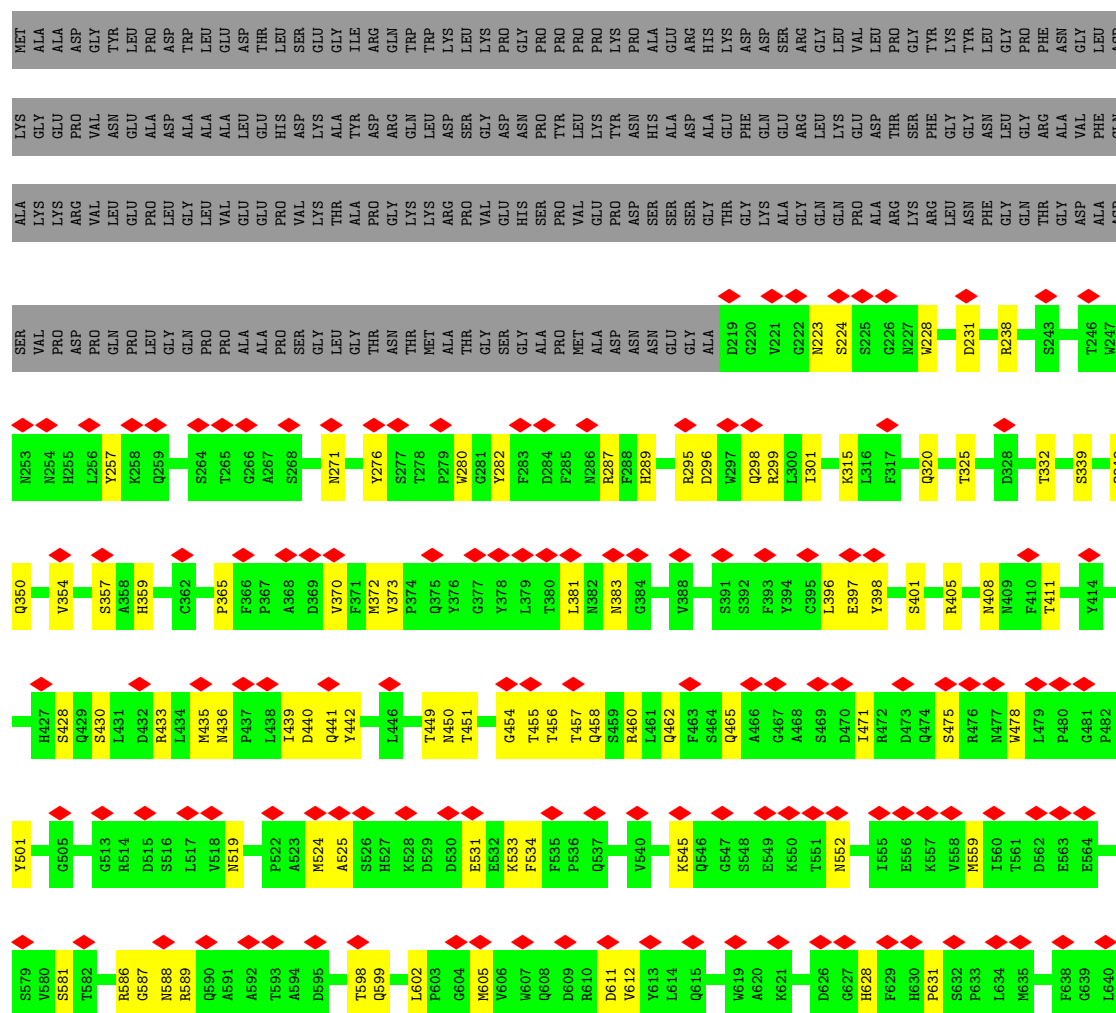
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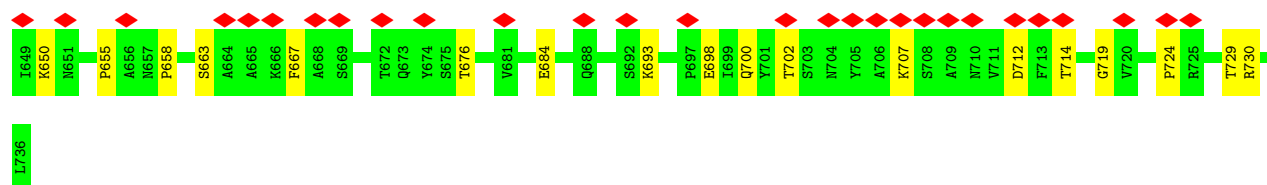




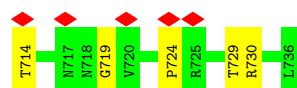
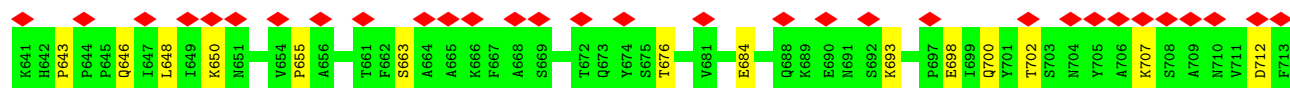
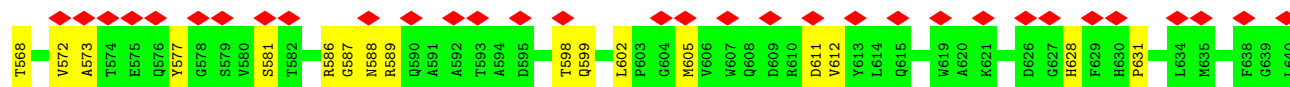
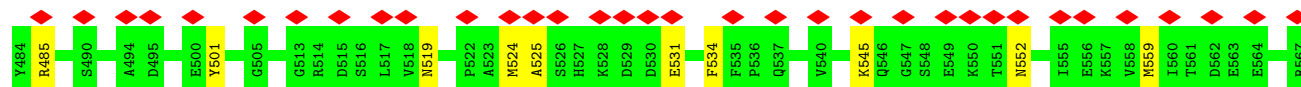
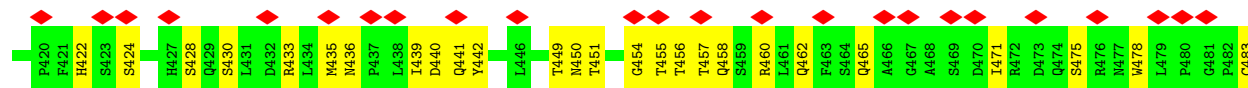
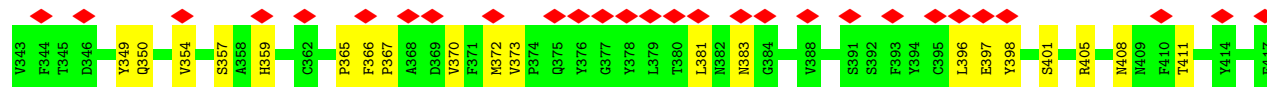
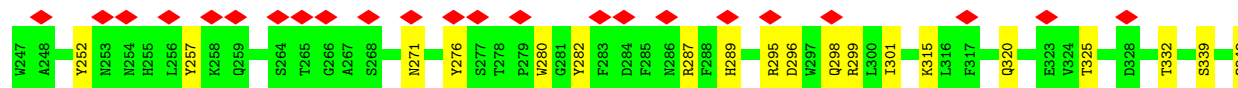
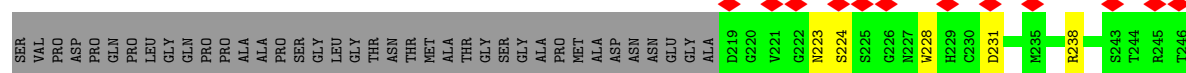
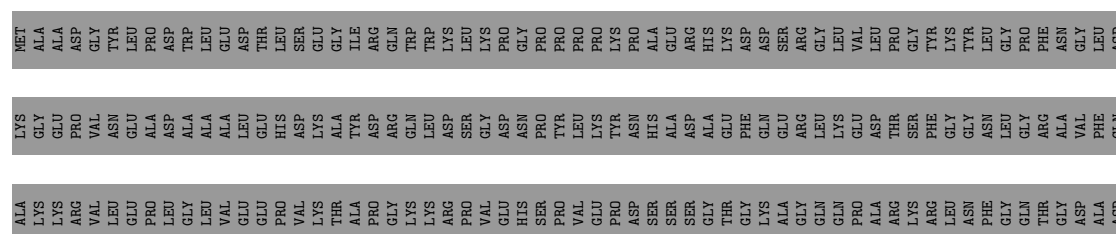


• Molecule 1: Capsid protein VP1



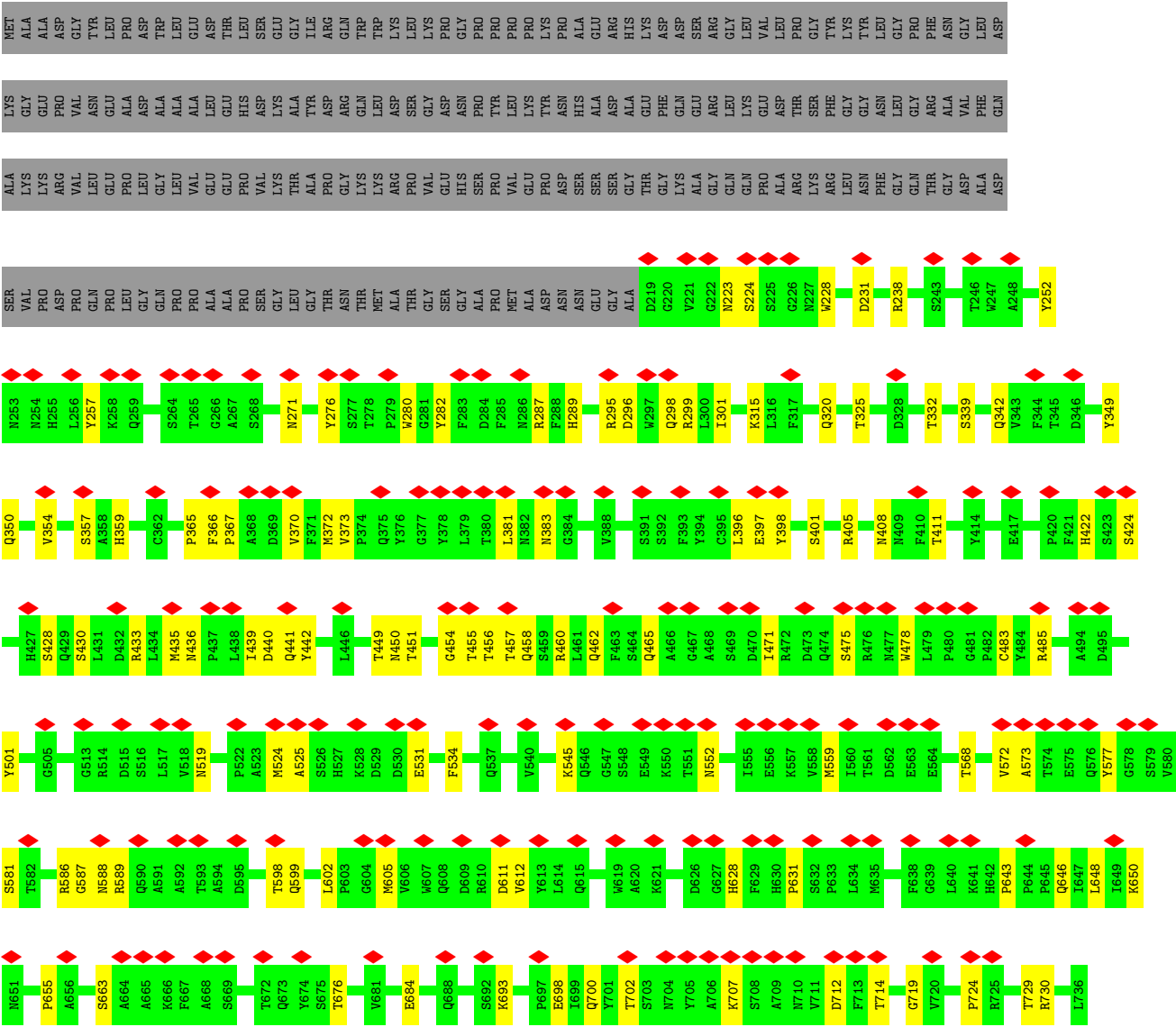


• Molecule 1: Capsid protein VP1

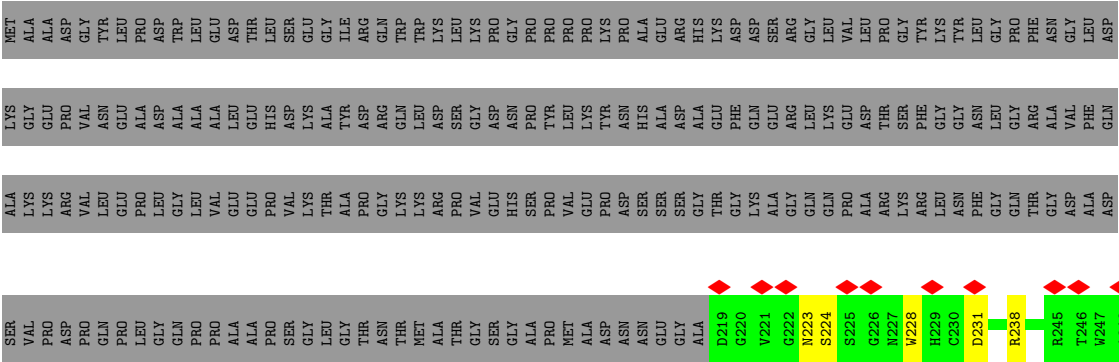


• Molecule 1: Capsid protein VP1

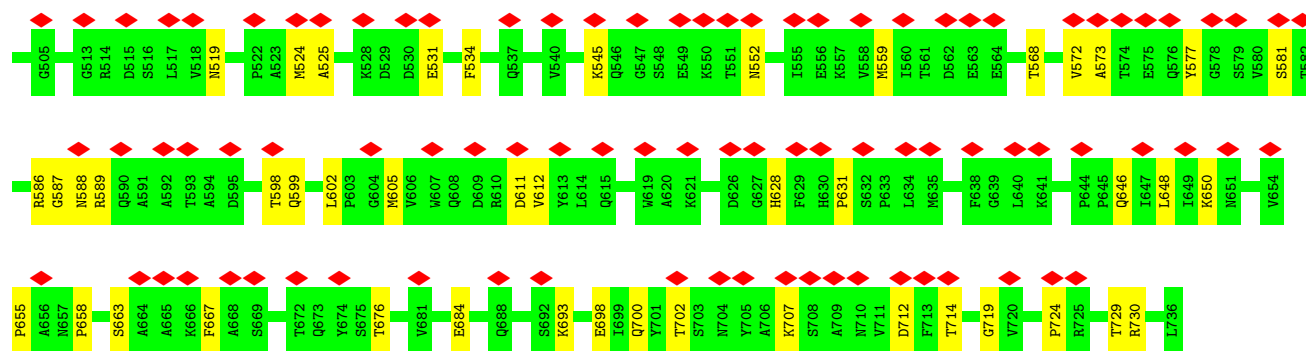




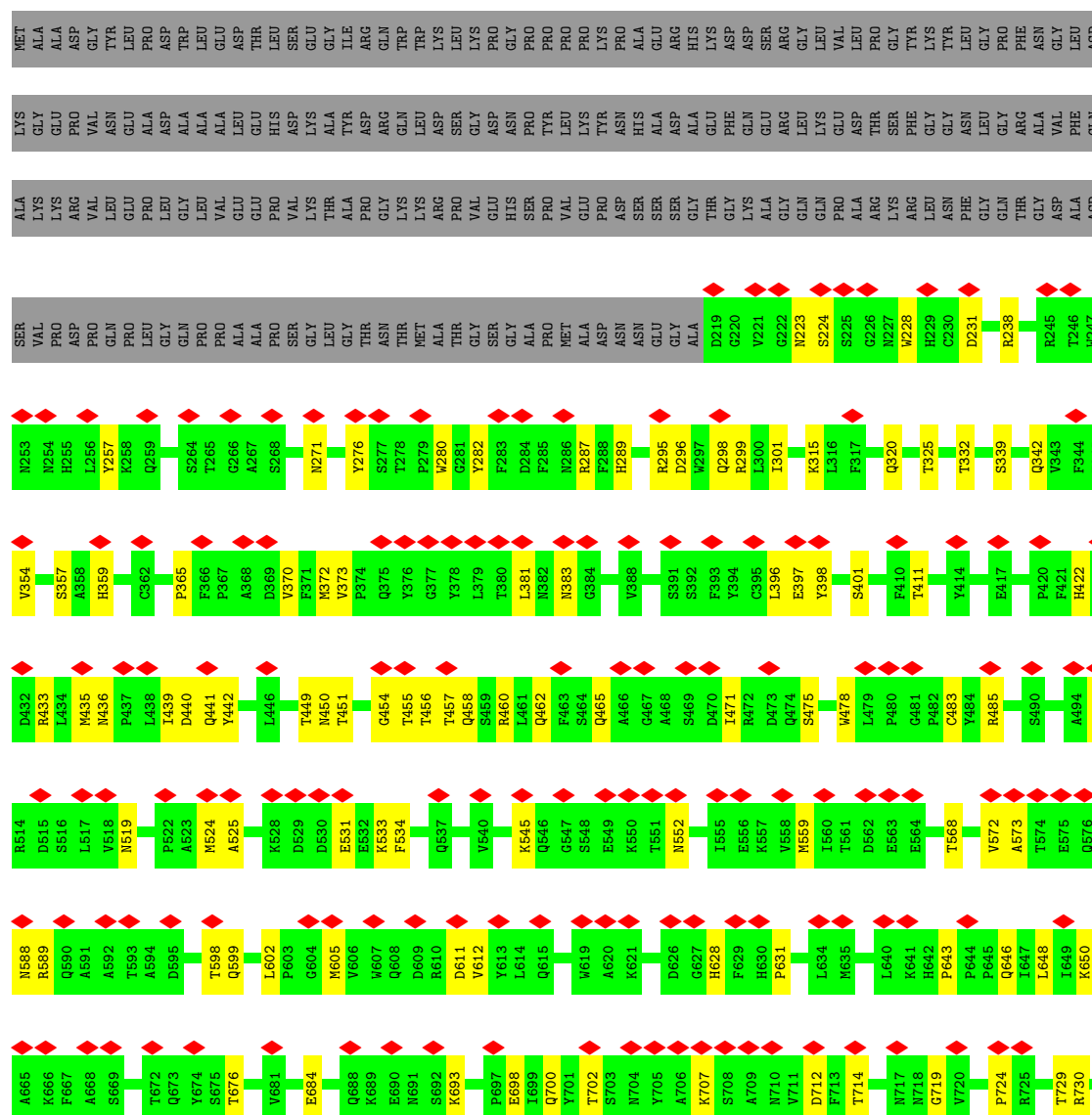
● Molecule 1: Capsid protein VP1





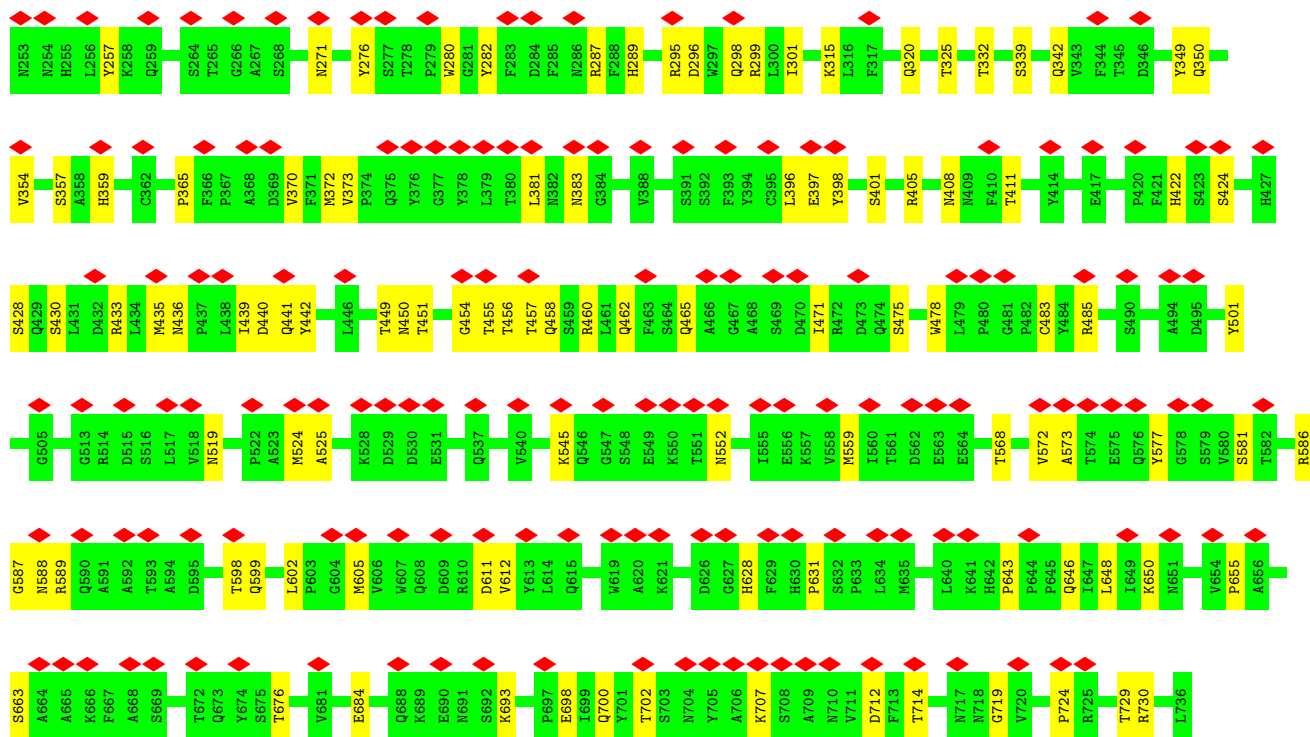


• Molecule 1: Capsid protein VP1

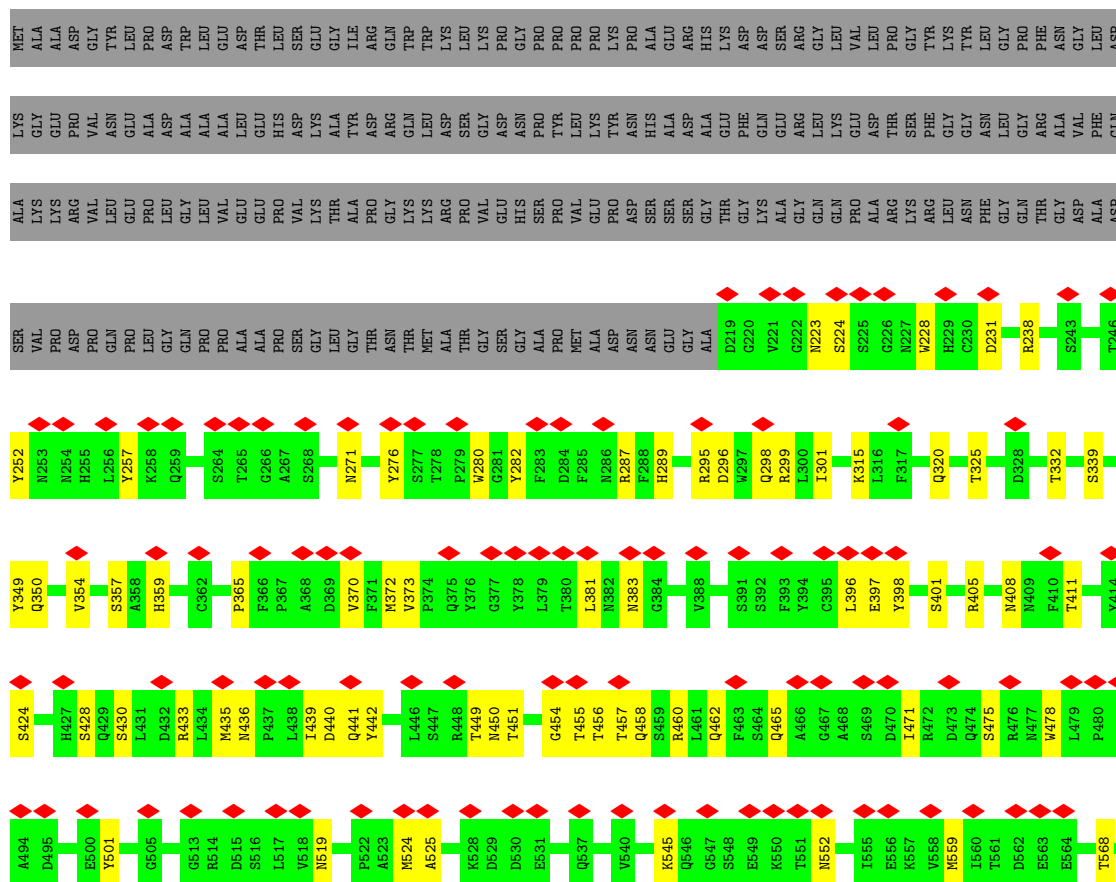


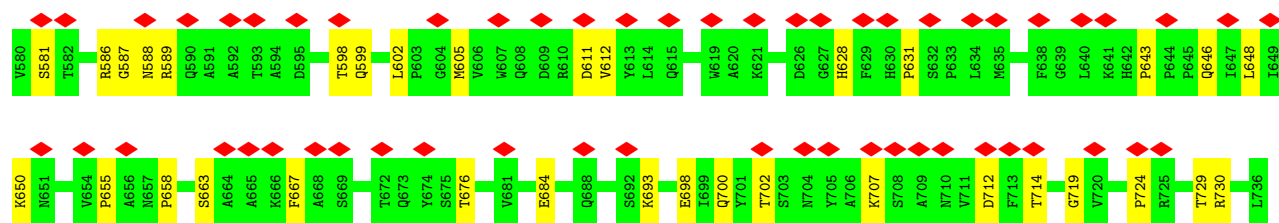
• Molecule 1: Capsid protein VP1



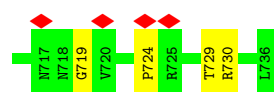
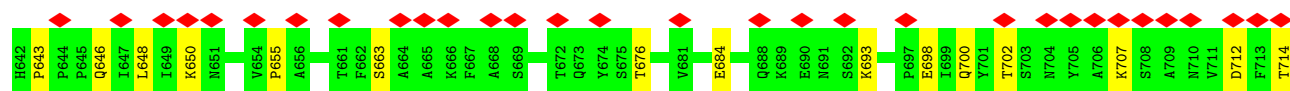
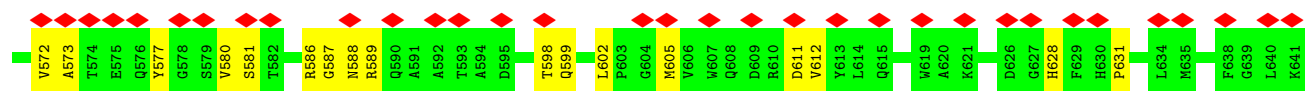
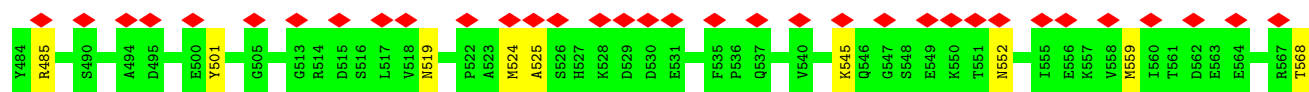
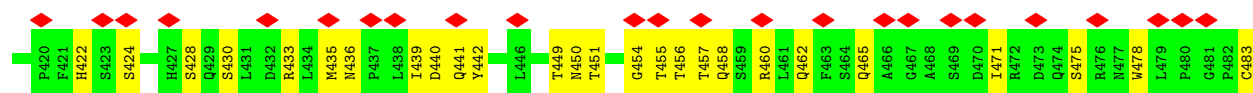
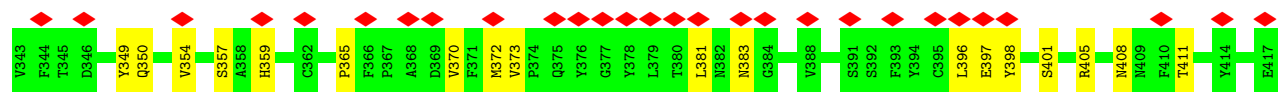
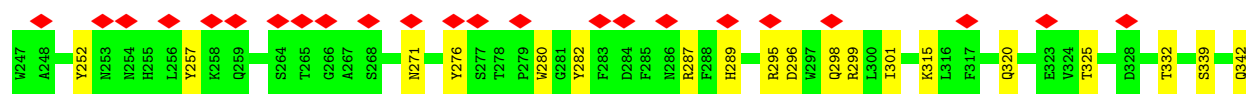
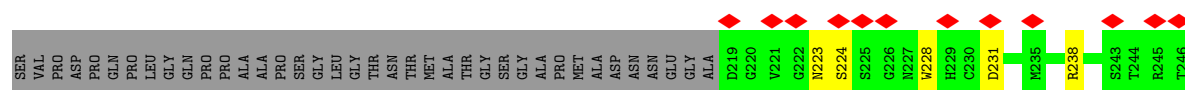
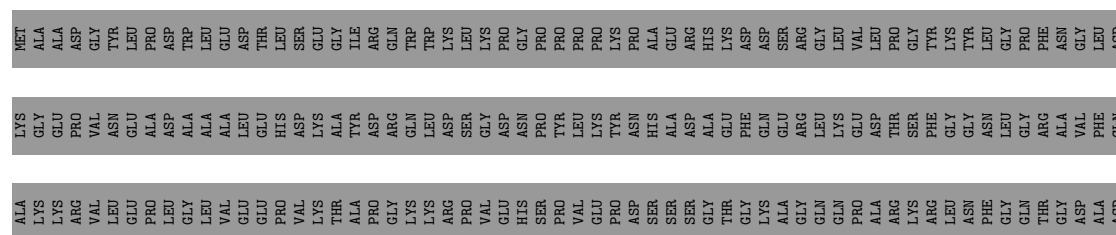


• Molecule 1: Capsid protein VP1





• Molecule 1: Capsid protein VP1



• Molecule 1: Capsid protein VP1

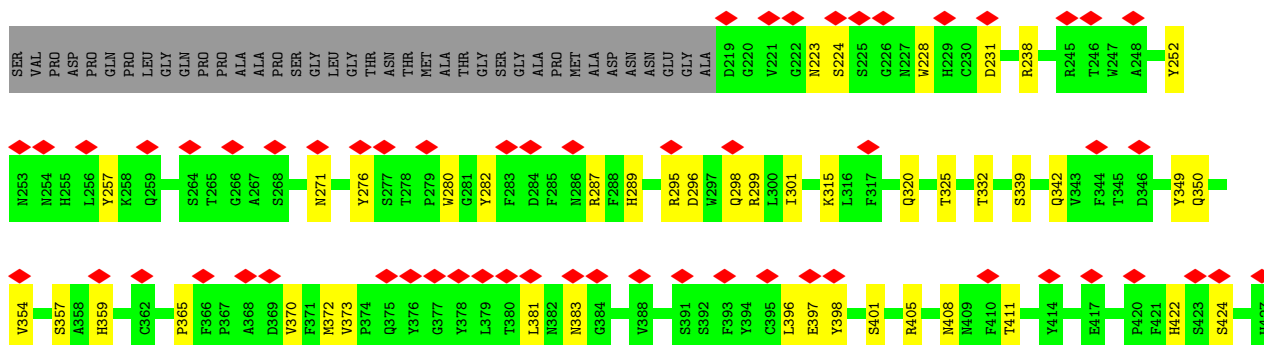
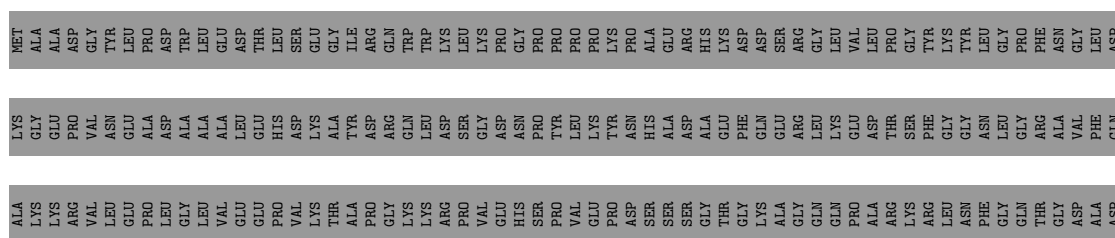


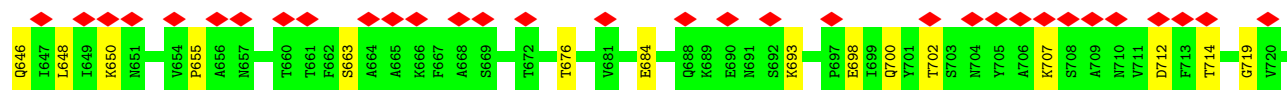
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ASP	PRO	ASP	PRO	Y252	T345	S423	A494	T574	P645	G719
GLY	ASN	VAL	GLN	N253	D346	S424	D495	E575	Q646	N720
LEU	GLU	LEU	PRO	N254	Q349	H427	E500	Q576	T647	P724
PRO	ALA	PRO	LEU	H255	Y350	S428	Y501	Q578	T649	R725
TRP	ASP	LEU	GLY	L256	V354	Q429	G505	S579	K650	T729
LEU	ALA	TRP	GLN	Y257	S357	S430	G513	V580	N651	R730
GLU	ALA	LEU	PRO	K258	A358	L431	R514	S581	V654	L736
ASP	LEU	GLU	ALA	Q259	H359	D432	R515	T582	P655	
THR	GLU	THR	ALA	S264	C362	R433	R516		A656	
SER	HIS	SER	PRO	T265	G365	M435	R517		T661	
GLY	LYS	GLY	GLY	G266	P366	N436	S518		F662	
ILE	ALA	GLY	LEU	A267	F367	L438	L519		S663	
ARG	TYR	ASP	THR	S268	A368	T439	N522		A664	
TRP	ASP	GLN	ASN	N271	D369	Q441	A523		A665	
LYS	LEU	LYS	THR	Y276	V370	Y442	A524		F666	
PRO	GLY	VAL	ALA	T277	F371	L446	A525		F667	
ASP	ASP	GLU	GLY	T278	M372	T449	S526		S669	
ASN	ASN	GLY	SER	P279	V373	M450	H527		Q673	
PRO	PRO	TRP	ALA	W280	Q375	T451	K528		T674	
PRO	TYR	PRO	VAL	G281	Y376	G454	D529		S675	
PRO	LEU	VAL	GLU	Y282	G377	T456	D530		T676	
PRO	LYS	GLU	GLY	F283	L378	T457	E531		V681	
PRO	TYR	ASP	GLY	F284	T380	Q458	F534		E684	
ALA	HIS	ALA	GLY	F285	F381	S459	F535		Q688	
GLU	ASP	SER	ALA	N286	F288	R460	P536		K689	
ARG	ALA	ASP	GLY	R287	H289	L461	Q537		E690	
HIS	GLY	THR	ALA	F288	N382	Q462	V540		N691	
LYS	ASP	GLY	THR	D219	N383	F463	K545		S692	
ASP	PHE	GLY	GLY	G220	G384	S464	Q546		P697	
ASP	GLN	LYS	LYS	V221	S391	Q465	G547		E698	
SER	ARG	GLY	ALA	G222	S392	A466	S548		Q700	
ARG	LEU	GLY	GLN	N223	F393	G467	E549		Y701	
LEU	VAL	LYS	PRO	S224	Y394	A468	K550		T702	
VAL	GLU	ASP	ALA	G225	L301	G469	T551		G627	
LEU	ASP	THR	ALA	G226	K315	S469	N552		H628	
PRO	THR	SER	ARG	N227	L316	D470	Y555		F629	
GLY	PHE	GLY	ARG	W228	F317	R472	V556		A706	
LYS	GLY	ASN	LEU	H229	Q320	Q474	E557		K707	
TYR	GLY	PHE	PHE	C230	E323	S475	V558		S708	
LYS	ASN	GLY	GLY	D231	V324	R476	M559		A709	
LEU	GLY	THR	GLY	M235	T325	N477	I560		N710	
PRO	ARG	THR	THR	R238	D328	Y478	T561		F711	
PHE	ALA	GLY	GLY	S243	T332	L479	D562		D712	
ASN	ALA	ASP	ASP	T244	S339	P480	E564		Q639	
GLY	PHE	ALA	ASP	R245	Q342	G481	R567		L640	
LEU	GLN	ASP	ASP	T246		C482	T568		K641	
ASP						Y484			H642	

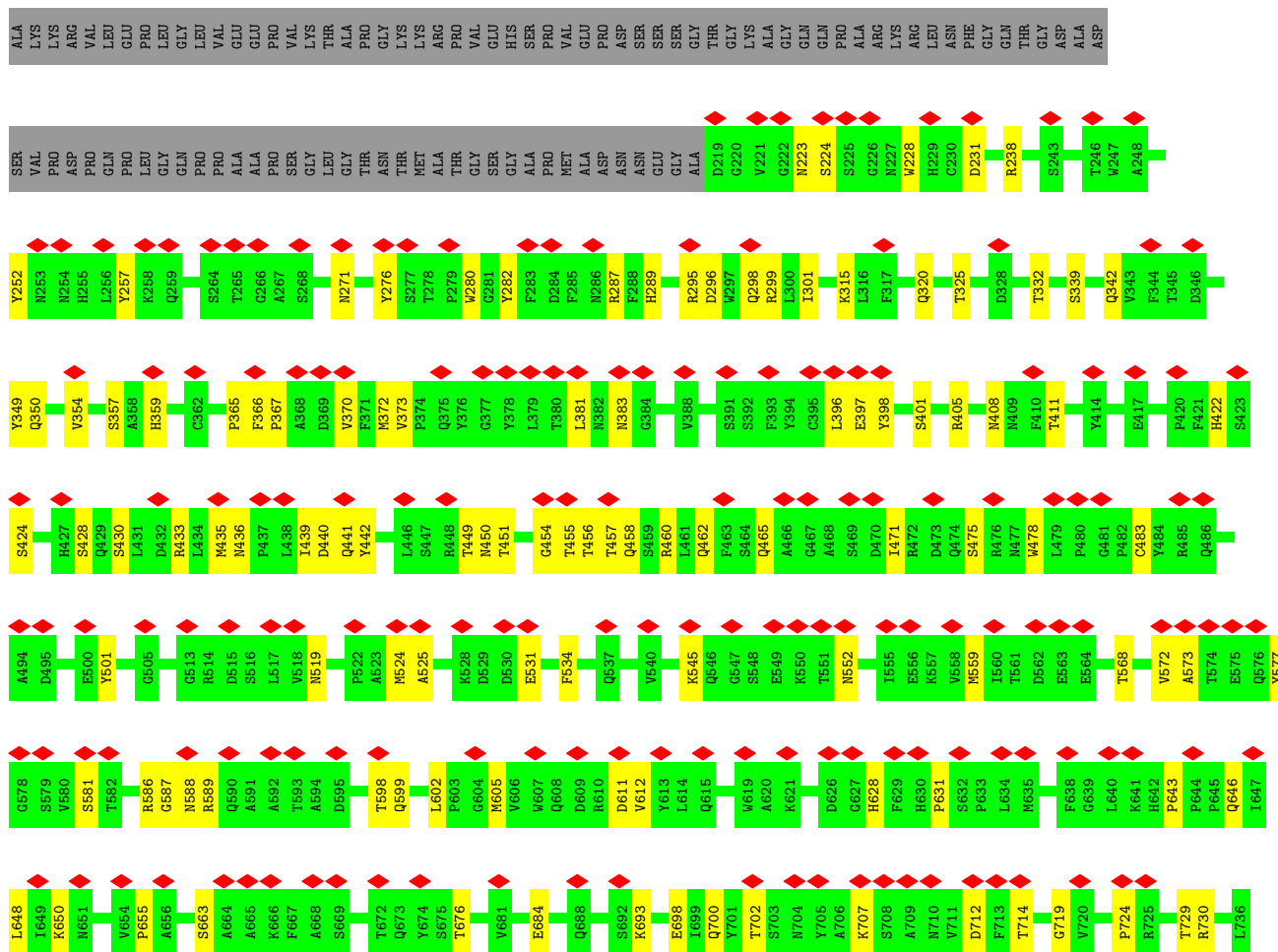
● Molecule 1: Capsid protein VP1



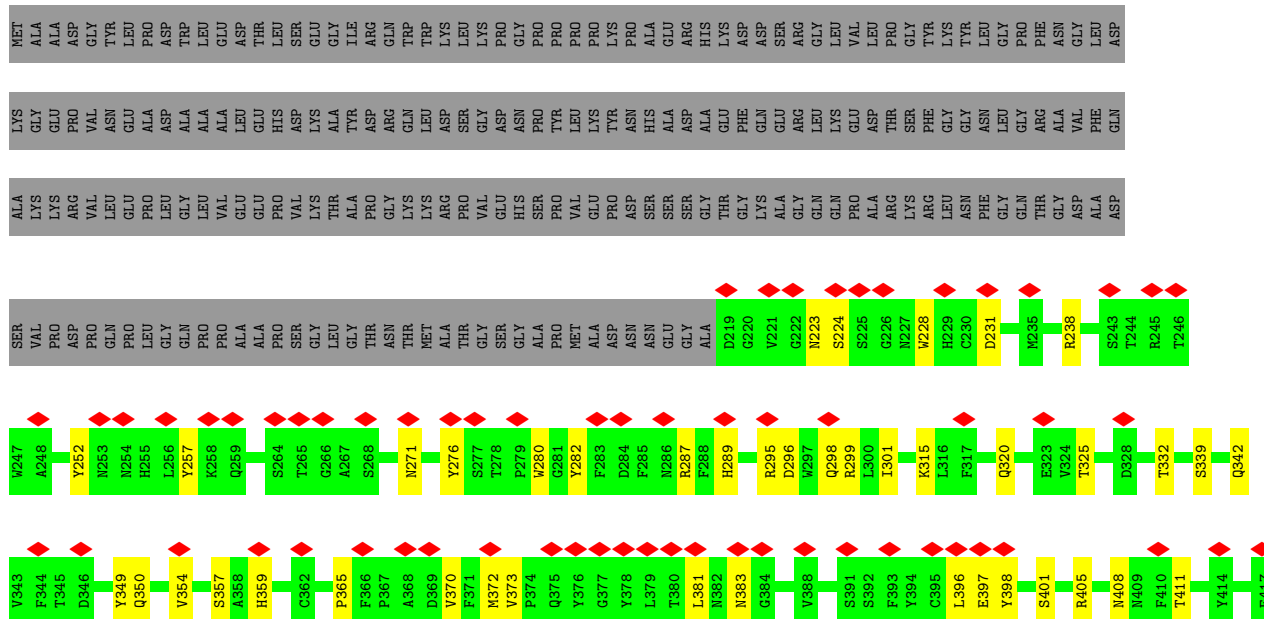
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ALA	GLY	ALA	ASP	P644	M718
ASP	PRO	ASP	GLY	Q645	G719
TYR	ASN	VAL	LEU	T647	N720
LEU	GLU	LEU	LEU	L648	P724
PRO	ALA	PRO	ASP	T649	R725
ASP	ASP	LEU	TRP	K650	T729
TRP	ALA	LEU	LEU	N651	R730
LEU	ALA	GLU	ASP	V654	L736
ASP	LEU	GLU	THR	P655	
THR	GLU	THR	ALA	A656	
SER	HIS	SER	LEU	T661	
GLY	ASP	GLY	LEU	F662	
ILE	LYS	GLY	GLY	S663	
ARG	TYR	ASP	ALA	A664	
GLN	ARG	ASP	PRO	A665	
TRP	GLN	LEU	LYS	F666	
TRP	LEU	TRP	TRP	F667	
LYS	ASP	LYS	ARG	A668	
LEU	SER	LEU	PRO	S669	
LYS	GLY	VAL	VAL	Q673	
PRO	ASP	GLU	GLY	T674	
GLY	ASN	HIS	GLY	S675	
ASP	ASN	SER	ASP	T676	
PRO	PRO	TYR	ALA	V681	
PRO	LEU	LEU	GLU	E684	
PRO	LYS	VAL	GLY	Q688	
LYS	TYR	GLU	ASP	K689	
LYS	ASN	PRO	GLY	E690	
ASN	HIS	PRO	ALA	N691	
ALA	SER	ALA	GLY	S692	
GLU	ASP	ARG	ARG	P697	
HIS	ALA	GLY	GLY	E698	
LYS	PHE	GLY	LEU	L699	
ASP	GLN	ASP	VAL	Q700	
ASP	GLY	SER	GLY	Y701	
ARG	ARG	LEU	LEU	T702	
GLY	LEU	GLY	GLY	S703	
LEU	VAL	ASP	GLY	N704	
VAL	GLU	ALA	THR	Y705	
LEU	ASP	ALA	ARG	A706	
PRO	THR	LYS	LYS	K707	
GLY	PHE	ARG	LEU	S708	
TYR	GLY	ASN	ASN	A709	
LYS	ASN	GLY	GLY	N710	
TYR	GLY	LEU	GLY	F711	
LEU	ASN	PHE	GLY	D712	
LEU	GLY	THR	THR	F713	
PRO	GLY	ARG	GLY	T714	
PHE	ALA	GLY	ASP		
ALA	VAL	ASP	ALA		
ASP	PHE	ALA	ASP		

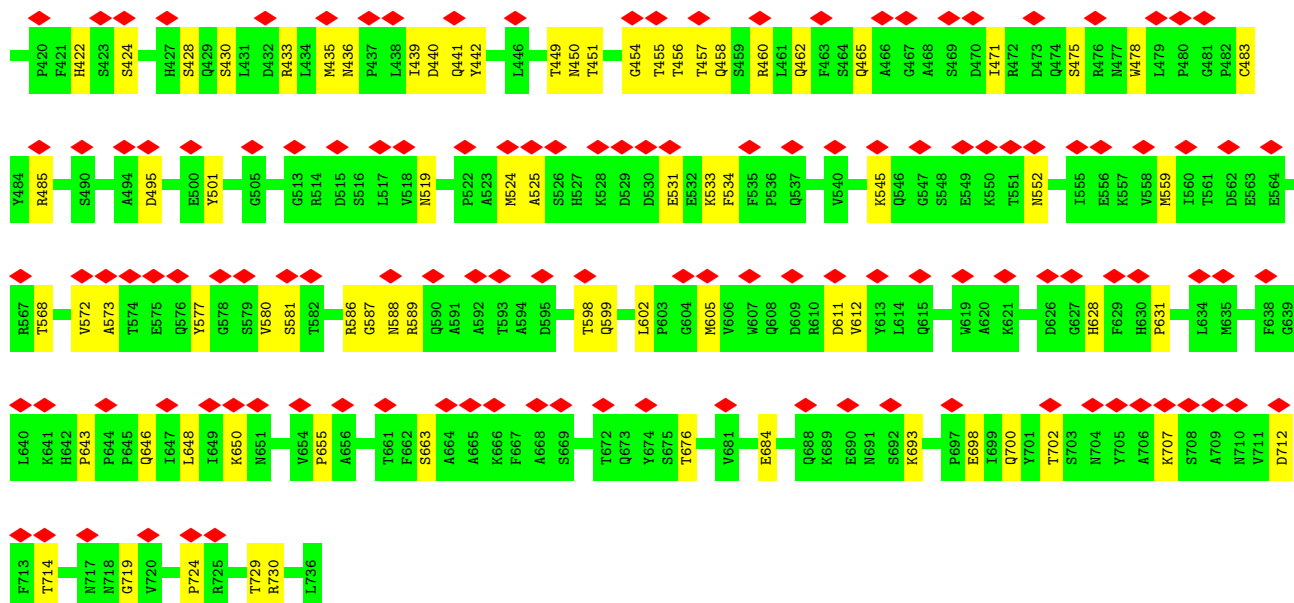




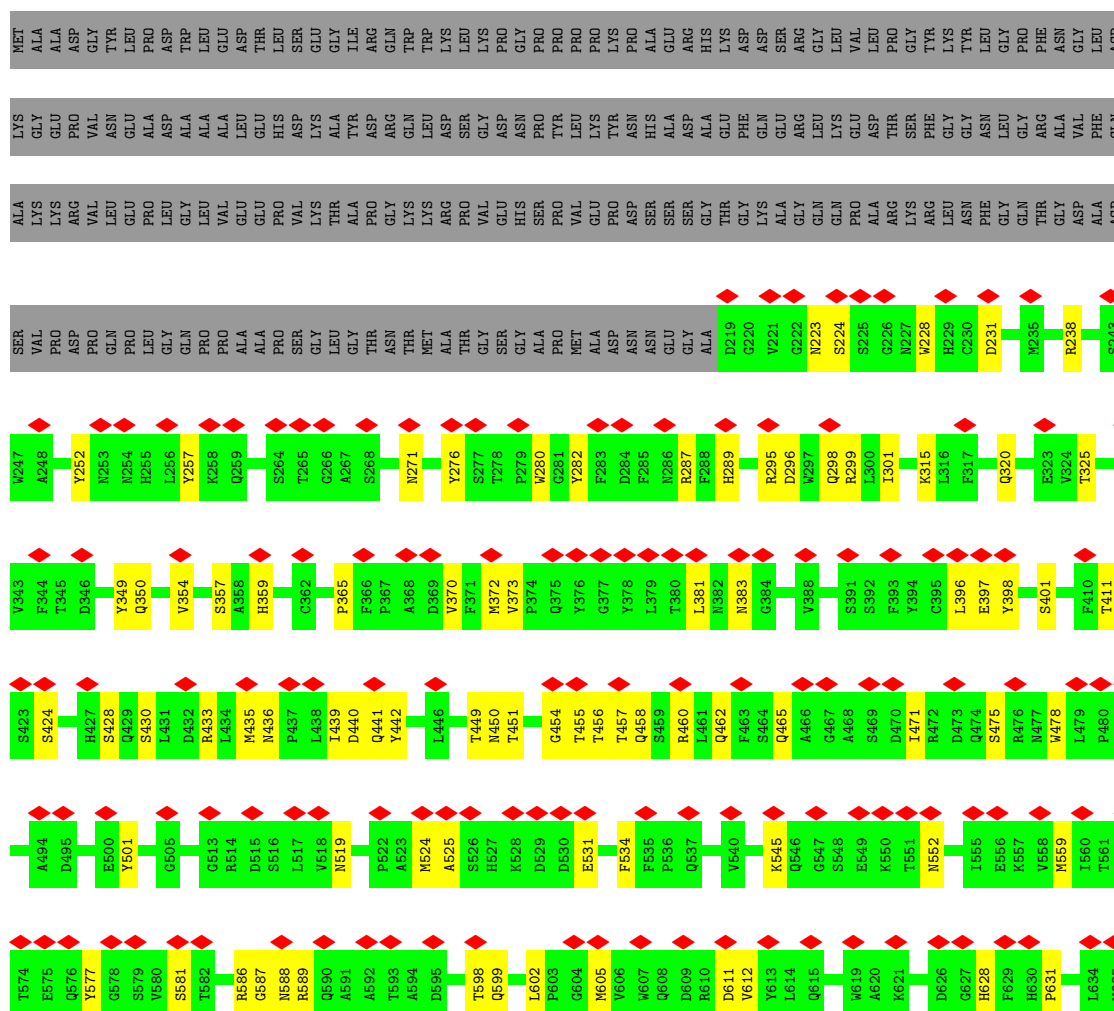


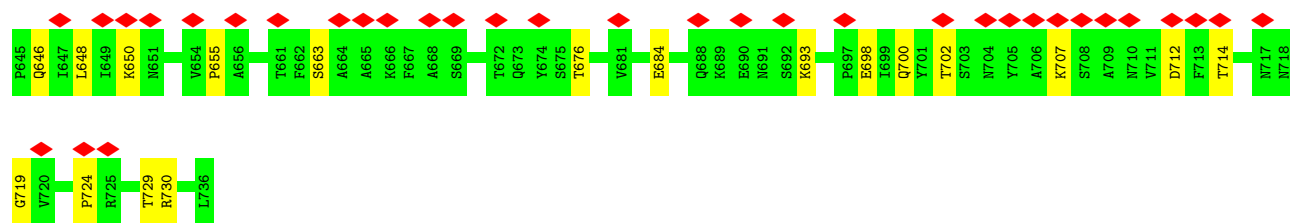
- Molecule 1: Capsid protein VP1



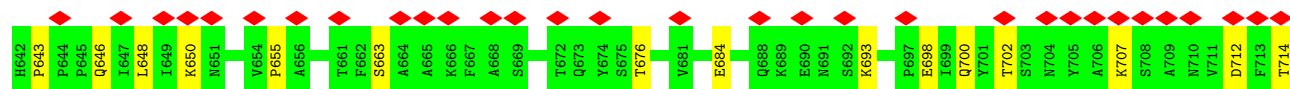
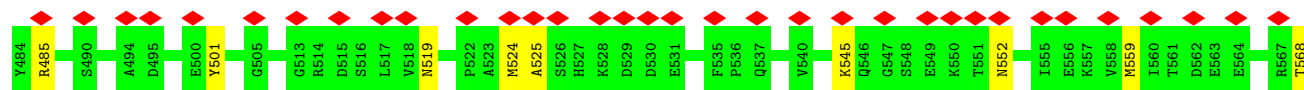
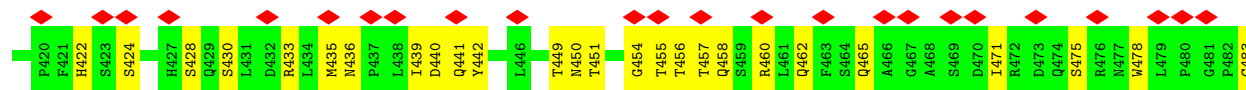
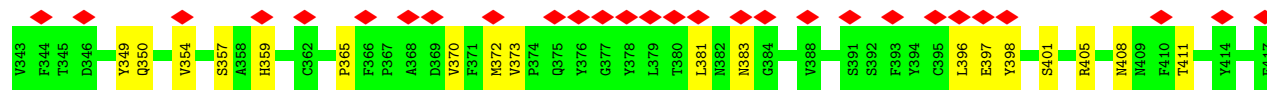
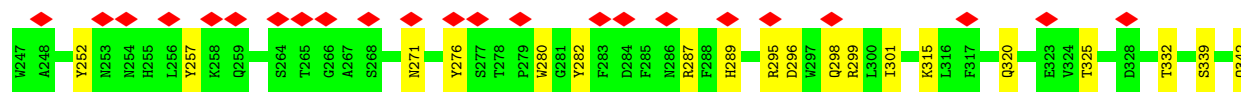
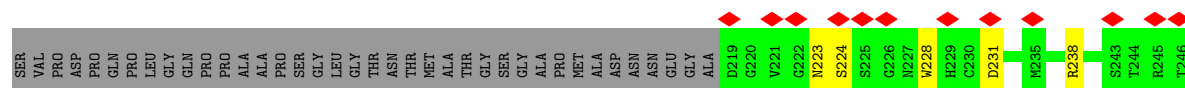
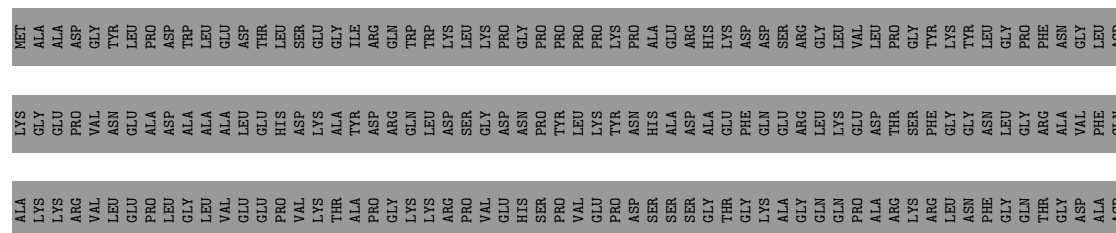


• Molecule 1: Capsid protein VP1



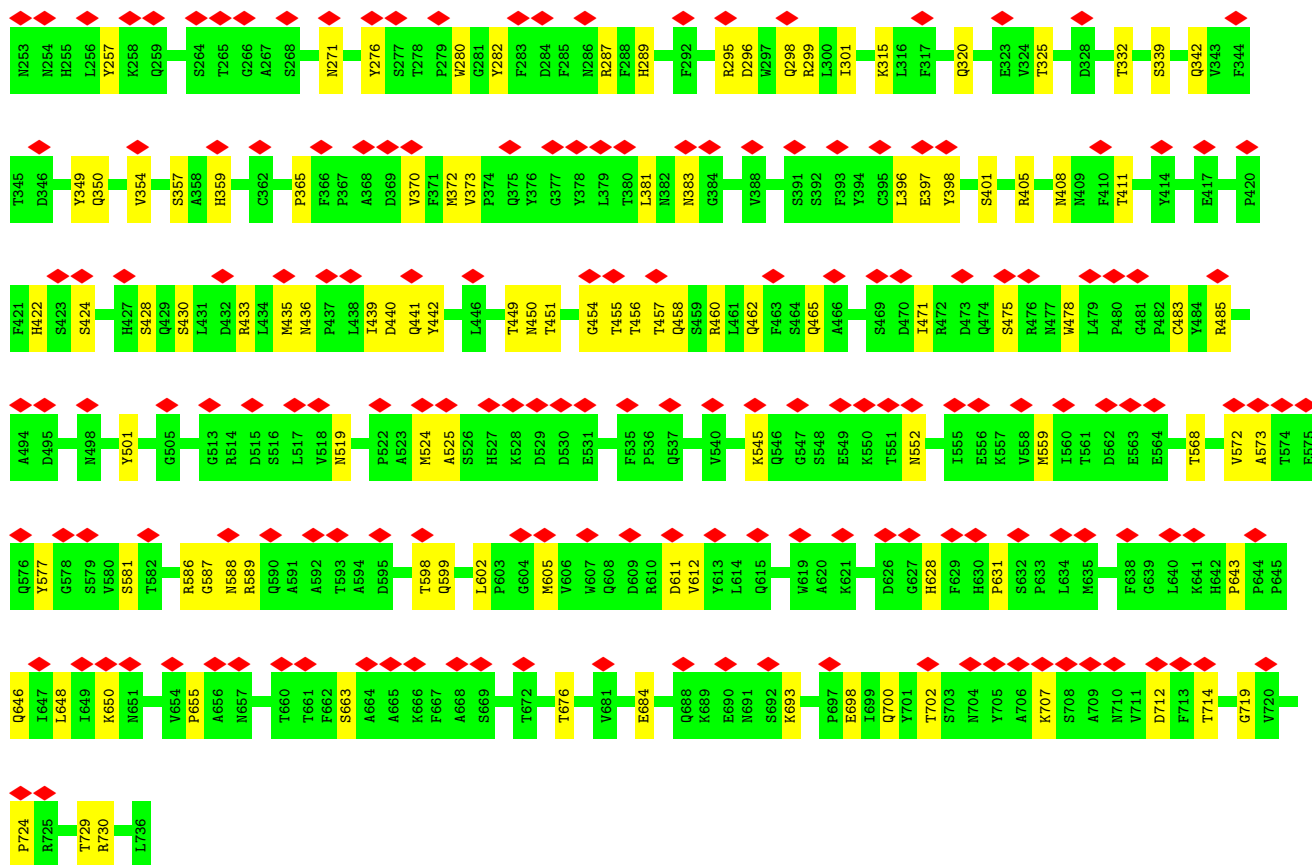


• Molecule 1: Capsid protein VP1

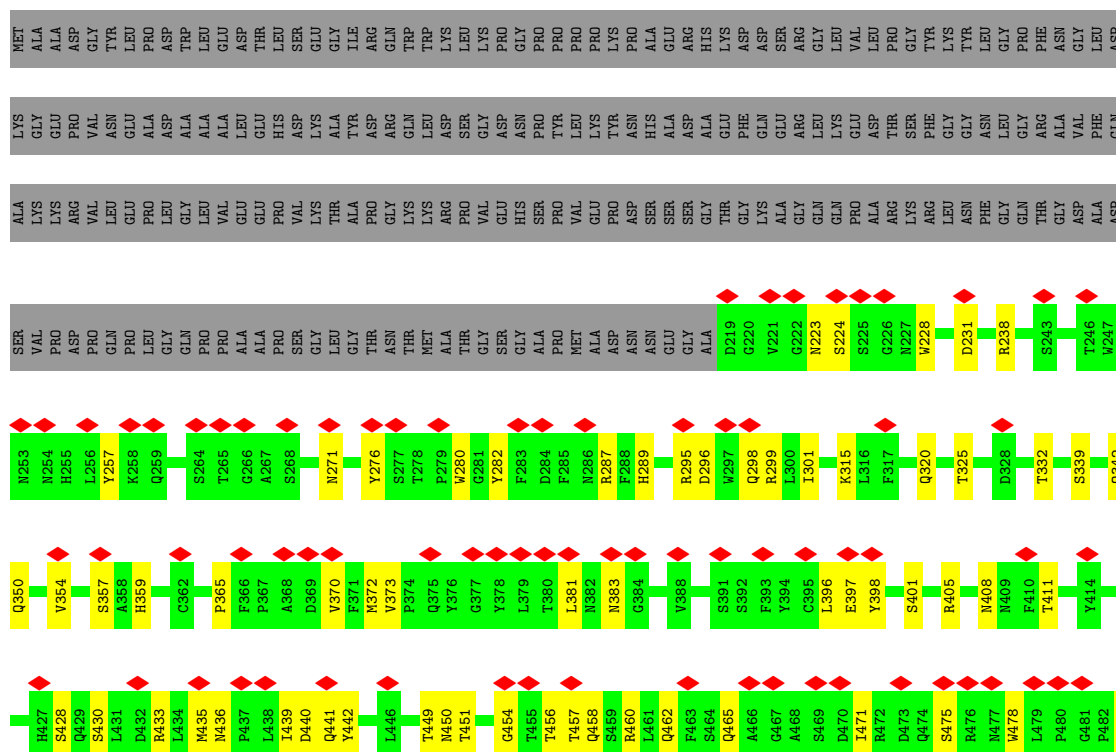


• Molecule 1: Capsid protein VP1



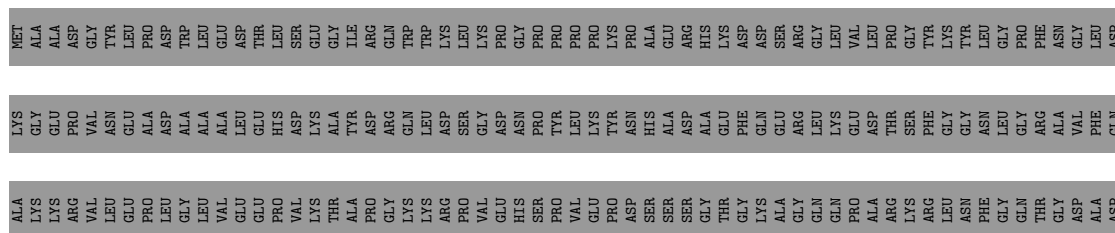


• Molecule 1: Capsid protein VP1

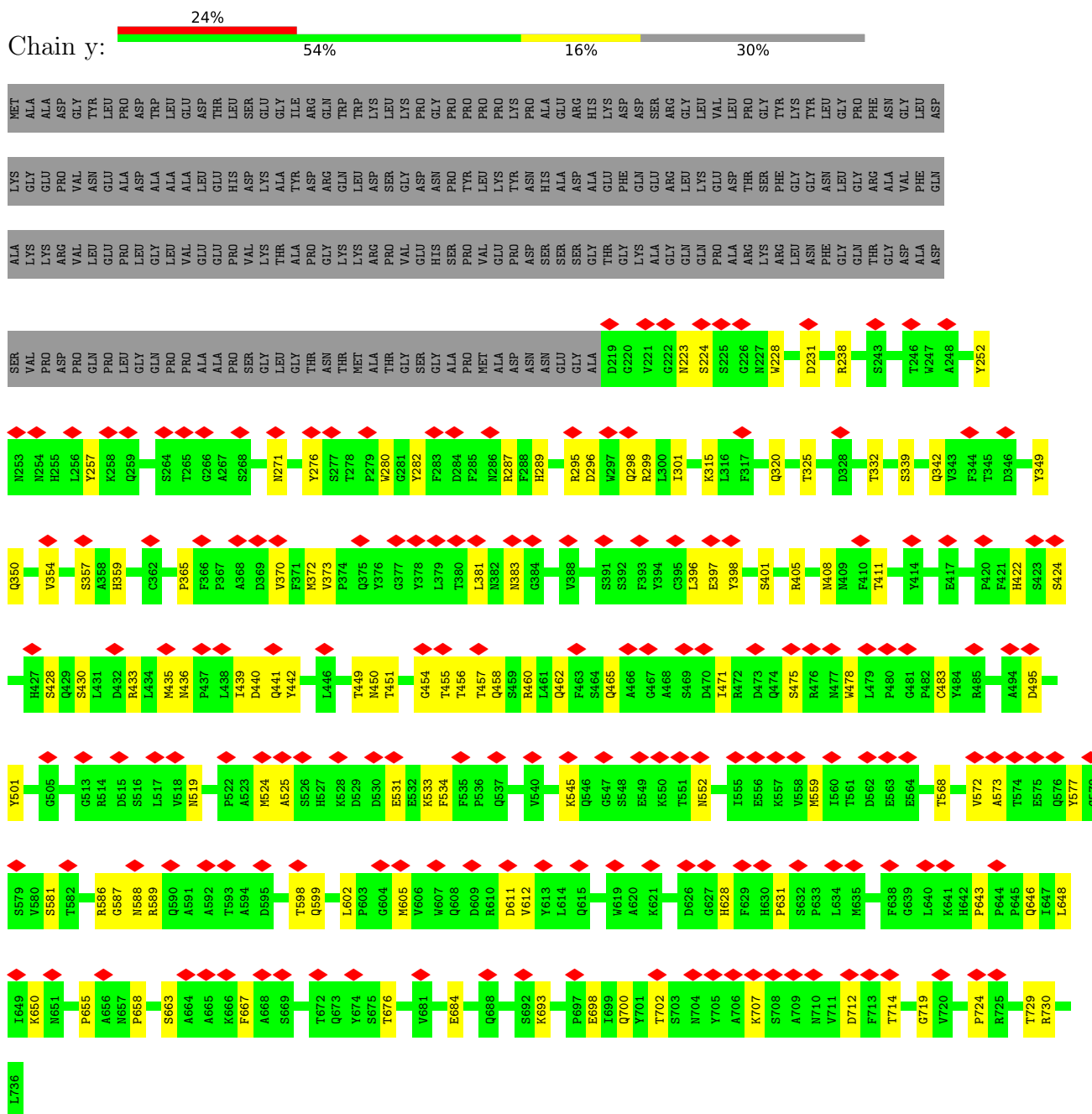




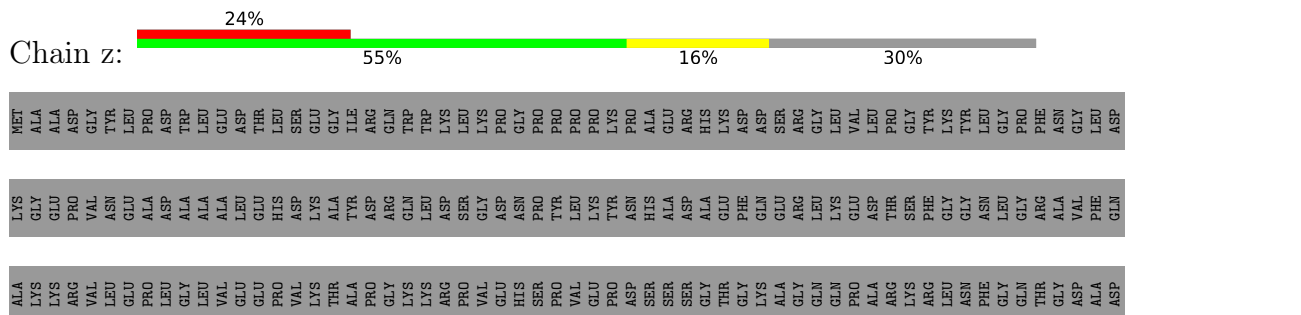
Chain u:

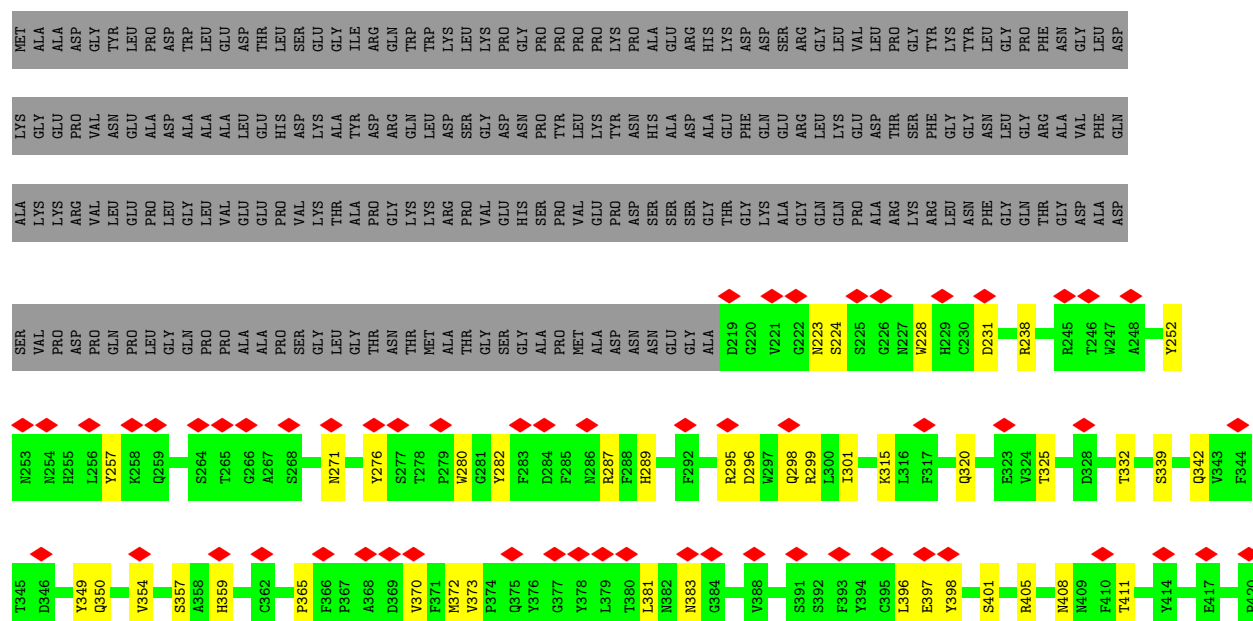


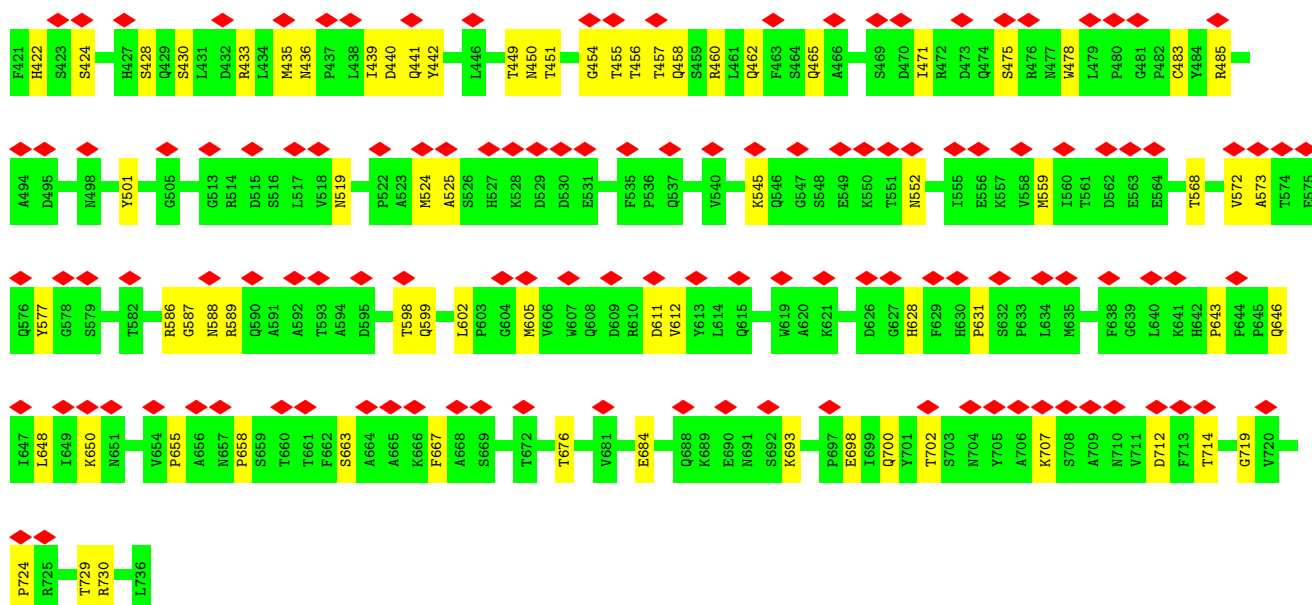
Chain y:



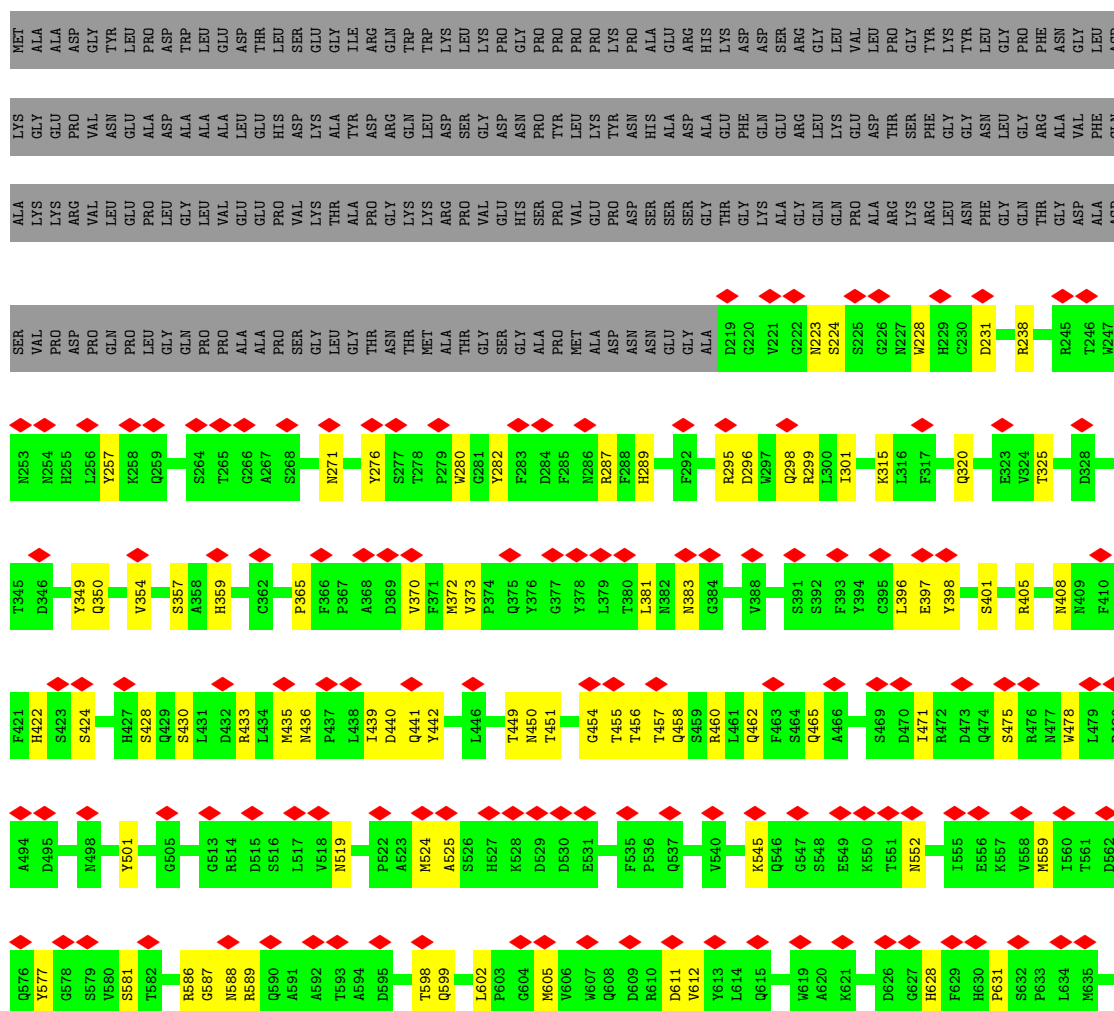
Chain z:

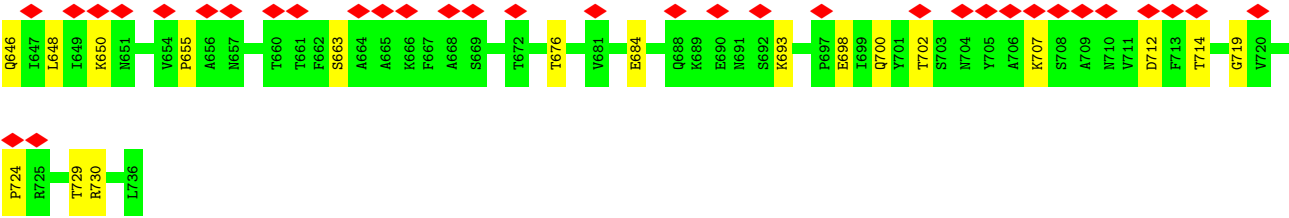






• Molecule 1: Capsid protein VP1





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	24618	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	2	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor
Maximum map value	16.777	Depositor
Minimum map value	-8.740	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	1	Depositor
Map size (Å)	379.05, 379.05, 379.05	wwPDB
Map dimensions	399, 399, 399	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.95, 0.95, 0.95	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	0	0.44	0/4265	0.50	0/5814
1	1	0.44	0/4265	0.50	0/5814
1	2	0.44	0/4265	0.50	0/5814
1	3	0.44	0/4265	0.50	0/5814
1	4	0.44	0/4265	0.50	0/5814
1	5	0.44	0/4265	0.50	0/5814
1	6	0.44	0/4265	0.50	0/5814
1	7	0.44	0/4265	0.50	0/5814
1	A	0.44	0/4265	0.50	0/5814
1	B	0.44	0/4265	0.50	0/5814
1	C	0.44	0/4265	0.50	0/5814
1	D	0.44	0/4265	0.50	0/5814
1	E	0.44	0/4265	0.50	0/5814
1	F	0.44	0/4265	0.50	0/5814
1	G	0.44	0/4265	0.50	0/5814
1	H	0.44	0/4265	0.50	0/5814
1	I	0.44	0/4265	0.50	0/5814
1	J	0.44	0/4265	0.50	0/5814
1	K	0.44	0/4265	0.50	0/5814
1	L	0.44	0/4265	0.50	0/5814
1	M	0.44	0/4265	0.50	0/5814
1	N	0.44	0/4265	0.50	0/5814
1	O	0.44	0/4265	0.50	0/5814
1	P	0.44	0/4265	0.50	0/5814
1	Q	0.44	0/4265	0.50	0/5814
1	R	0.44	0/4265	0.50	0/5814
1	S	0.44	0/4265	0.50	0/5814
1	T	0.44	0/4265	0.50	0/5814
1	U	0.44	0/4265	0.50	0/5814
1	V	0.44	0/4265	0.50	0/5814
1	W	0.44	0/4265	0.50	0/5814
1	X	0.44	0/4265	0.50	0/5814
1	Y	0.44	0/4265	0.50	0/5814
1	Z	0.44	0/4265	0.50	0/5814

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.44	0/4265	0.50	0/5814
1	b	0.44	0/4265	0.50	0/5814
1	c	0.44	0/4265	0.50	0/5814
1	d	0.44	0/4265	0.50	0/5814
1	e	0.44	0/4265	0.50	0/5814
1	f	0.44	0/4265	0.50	0/5814
1	g	0.44	0/4265	0.50	0/5814
1	h	0.44	0/4265	0.50	0/5814
1	i	0.44	0/4265	0.50	0/5814
1	j	0.44	0/4265	0.50	0/5814
1	k	0.44	0/4265	0.50	0/5814
1	l	0.44	0/4265	0.50	0/5814
1	m	0.44	0/4265	0.50	0/5814
1	n	0.44	0/4265	0.50	0/5814
1	o	0.44	0/4265	0.50	0/5814
1	p	0.44	0/4265	0.50	0/5814
1	q	0.44	0/4265	0.50	0/5814
1	r	0.44	0/4265	0.50	0/5814
1	s	0.44	0/4265	0.50	0/5814
1	t	0.44	0/4265	0.50	0/5814
1	u	0.44	0/4265	0.50	0/5814
1	v	0.44	0/4265	0.50	0/5814
1	w	0.44	0/4265	0.50	0/5814
1	x	0.44	0/4265	0.50	0/5814
1	y	0.44	0/4265	0.50	0/5814
1	z	0.44	0/4265	0.50	0/5814
All	All	0.44	0/255900	0.50	0/348840

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	0	0	1
1	1	0	1
1	2	0	1
1	3	0	1
1	4	0	1
1	5	0	1
1	6	0	1
1	7	0	1

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

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	q	0	1
1	r	0	1
1	s	0	1
1	t	0	1
1	u	0	1
1	v	0	1
1	w	0	1
1	x	0	1
1	y	0	1
1	z	0	1
All	All	0	60

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (60) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	587	GLY	Peptide
1	1	587	GLY	Peptide
1	2	587	GLY	Peptide
1	3	587	GLY	Peptide
1	4	587	GLY	Peptide
1	5	587	GLY	Peptide
1	6	587	GLY	Peptide
1	7	587	GLY	Peptide
1	A	587	GLY	Peptide
1	B	587	GLY	Peptide
1	C	587	GLY	Peptide
1	D	587	GLY	Peptide
1	E	587	GLY	Peptide
1	F	587	GLY	Peptide
1	G	587	GLY	Peptide
1	H	587	GLY	Peptide
1	I	587	GLY	Peptide
1	J	587	GLY	Peptide
1	K	587	GLY	Peptide
1	L	587	GLY	Peptide
1	M	587	GLY	Peptide
1	N	587	GLY	Peptide
1	O	587	GLY	Peptide

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Mol	Chain	Res	Type	Group
1	P	587	GLY	Peptide
1	Q	587	GLY	Peptide
1	R	587	GLY	Peptide
1	S	587	GLY	Peptide
1	T	587	GLY	Peptide
1	U	587	GLY	Peptide
1	V	587	GLY	Peptide
1	W	587	GLY	Peptide
1	X	587	GLY	Peptide
1	Y	587	GLY	Peptide
1	Z	587	GLY	Peptide
1	a	587	GLY	Peptide
1	b	587	GLY	Peptide
1	c	587	GLY	Peptide
1	d	587	GLY	Peptide
1	e	587	GLY	Peptide
1	f	587	GLY	Peptide
1	g	587	GLY	Peptide
1	h	587	GLY	Peptide
1	i	587	GLY	Peptide
1	j	587	GLY	Peptide
1	k	587	GLY	Peptide
1	l	587	GLY	Peptide
1	m	587	GLY	Peptide
1	n	587	GLY	Peptide
1	o	587	GLY	Peptide
1	p	587	GLY	Peptide
1	q	587	GLY	Peptide
1	r	587	GLY	Peptide
1	s	587	GLY	Peptide
1	t	587	GLY	Peptide
1	u	587	GLY	Peptide
1	v	587	GLY	Peptide
1	w	587	GLY	Peptide
1	x	587	GLY	Peptide
1	y	587	GLY	Peptide
1	z	587	GLY	Peptide

5.2 Too-close contacts

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	0	4142	0	3894	101	0
1	1	4142	0	3894	102	0
1	2	4142	0	3894	102	0
1	3	4142	0	3894	102	0
1	4	4142	0	3894	104	0
1	5	4142	0	3894	103	0
1	6	4142	0	3894	101	0
1	7	4142	0	3894	100	0
1	A	4142	0	3894	100	0
1	B	4142	0	3894	103	0
1	C	4142	0	3894	102	0
1	D	4142	0	3894	102	0
1	E	4142	0	3894	103	0
1	F	4142	0	3894	103	0
1	G	4142	0	3894	100	0
1	H	4142	0	3894	102	0
1	I	4142	0	3894	100	0
1	J	4142	0	3894	103	0
1	K	4142	0	3894	101	0
1	L	4142	0	3894	104	0
1	M	4142	0	3894	102	0
1	N	4142	0	3894	102	0
1	O	4142	0	3894	101	0
1	P	4142	0	3894	103	0
1	Q	4142	0	3894	102	0
1	R	4142	0	3894	101	0
1	S	4142	0	3894	101	0
1	T	4142	0	3894	100	0
1	U	4142	0	3894	102	0
1	V	4142	0	3894	104	0
1	W	4142	0	3894	100	0
1	X	4142	0	3894	103	0
1	Y	4142	0	3894	99	0
1	Z	4142	0	3894	103	0
1	a	4142	0	3894	101	0
1	b	4142	0	3894	102	0
1	c	4142	0	3894	103	0
1	d	4142	0	3894	105	0
1	e	4142	0	3894	102	0
1	f	4142	0	3894	103	0
1	g	4142	0	3894	102	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	h	4142	0	3894	103	0
1	i	4142	0	3894	103	0
1	j	4142	0	3894	104	0
1	k	4142	0	3894	102	0
1	l	4142	0	3894	101	0
1	m	4142	0	3894	103	0
1	n	4142	0	3894	105	0
1	o	4142	0	3894	102	0
1	p	4142	0	3894	102	0
1	q	4142	0	3894	102	0
1	r	4142	0	3894	101	0
1	s	4142	0	3894	100	0
1	t	4142	0	3894	102	0
1	u	4142	0	3894	103	0
1	v	4142	0	3894	103	0
1	w	4142	0	3894	103	0
1	x	4142	0	3894	104	0
1	y	4142	0	3894	102	0
1	z	4142	0	3894	104	0
All	All	248520	0	233640	4623	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 10.

All (4623) 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:R:430:SER:HA	1:R:568:THR:HG23	1.58	0.86
1:O:430:SER:HA	1:O:568:THR:HG23	1.58	0.86
1:D:430:SER:HA	1:D:568:THR:HG23	1.58	0.86
1:t:430:SER:HA	1:t:568:THR:HG23	1.58	0.86
1:I:430:SER:HA	1:I:568:THR:HG23	1.58	0.86
1:W:430:SER:HA	1:W:568:THR:HG23	1.58	0.86
1:E:430:SER:HA	1:E:568:THR:HG23	1.58	0.86
1:F:430:SER:HA	1:F:568:THR:HG23	1.58	0.86
1:M:430:SER:HA	1:M:568:THR:HG23	1.58	0.86
1:Z:430:SER:HA	1:Z:568:THR:HG23	1.58	0.86
1:q:430:SER:HA	1:q:568:THR:HG23	1.58	0.86
1:x:430:SER:HA	1:x:568:THR:HG23	1.58	0.86
1:7:430:SER:HA	1:7:568:THR:HG23	1.58	0.86
1:a:430:SER:HA	1:a:568:THR:HG23	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:430:SER:HA	1:S:568:THR:HG23	1.58	0.86
1:G:430:SER:HA	1:G:568:THR:HG23	1.58	0.86
1:H:430:SER:HA	1:H:568:THR:HG23	1.58	0.86
1:3:430:SER:HA	1:3:568:THR:HG23	1.58	0.86
1:m:430:SER:HA	1:m:568:THR:HG23	1.58	0.86
1:y:430:SER:HA	1:y:568:THR:HG23	1.58	0.85
1:Q:430:SER:HA	1:Q:568:THR:HG23	1.58	0.85
1:2:430:SER:HA	1:2:568:THR:HG23	1.58	0.85
1:z:430:SER:HA	1:z:568:THR:HG23	1.58	0.85
1:d:430:SER:HA	1:d:568:THR:HG23	1.58	0.85
1:e:430:SER:HA	1:e:568:THR:HG23	1.58	0.85
1:f:430:SER:HA	1:f:568:THR:HG23	1.58	0.85
1:j:430:SER:HA	1:j:568:THR:HG23	1.58	0.85
1:l:430:SER:HA	1:l:568:THR:HG23	1.58	0.85
1:s:430:SER:HA	1:s:568:THR:HG23	1.58	0.85
1:w:430:SER:HA	1:w:568:THR:HG23	1.58	0.85
1:A:430:SER:HA	1:A:568:THR:HG23	1.58	0.85
1:c:430:SER:HA	1:c:568:THR:HG23	1.58	0.85
1:p:430:SER:HA	1:p:568:THR:HG23	1.58	0.85
1:Y:430:SER:HA	1:Y:568:THR:HG23	1.58	0.85
1:g:430:SER:HA	1:g:568:THR:HG23	1.58	0.85
1:i:430:SER:HA	1:i:568:THR:HG23	1.58	0.85
1:K:430:SER:HA	1:K:568:THR:HG23	1.58	0.85
1:U:430:SER:HA	1:U:568:THR:HG23	1.58	0.85
1:C:430:SER:HA	1:C:568:THR:HG23	1.58	0.85
1:L:430:SER:HA	1:L:568:THR:HG23	1.58	0.85
1:u:430:SER:HA	1:u:568:THR:HG23	1.58	0.85
1:v:430:SER:HA	1:v:568:THR:HG23	1.58	0.85
1:N:430:SER:HA	1:N:568:THR:HG23	1.58	0.85
1:P:430:SER:HA	1:P:568:THR:HG23	1.58	0.85
1:1:430:SER:HA	1:1:568:THR:HG23	1.58	0.85
1:5:430:SER:HA	1:5:568:THR:HG23	1.58	0.85
1:b:430:SER:HA	1:b:568:THR:HG23	1.58	0.85
1:k:430:SER:HA	1:k:568:THR:HG23	1.58	0.85
1:r:430:SER:HA	1:r:568:THR:HG23	1.58	0.85
1:J:430:SER:HA	1:J:568:THR:HG23	1.58	0.84
1:4:430:SER:HA	1:4:568:THR:HG23	1.58	0.84
1:V:430:SER:HA	1:V:568:THR:HG23	1.58	0.84
1:O:430:SER:HA	1:O:568:THR:HG23	1.58	0.84
1:o:430:SER:HA	1:o:568:THR:HG23	1.58	0.84
1:X:430:SER:HA	1:X:568:THR:HG23	1.58	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:430:SER:HA	1:n:568:THR:HG23	1.58	0.84
1:B:430:SER:HA	1:B:568:THR:HG23	1.58	0.83
1:h:430:SER:HA	1:h:568:THR:HG23	1.58	0.83
1:T:430:SER:HA	1:T:568:THR:HG23	1.58	0.83
1:6:430:SER:HA	1:6:568:THR:HG23	1.58	0.83
1:V:524:MET:HE2	1:V:573:ALA:HA	1.62	0.82
1:X:524:MET:HE2	1:X:573:ALA:HA	1.62	0.82
1:3:524:MET:HE2	1:3:573:ALA:HA	1.62	0.82
1:i:524:MET:HE2	1:i:573:ALA:HA	1.62	0.82
1:J:524:MET:HE2	1:J:573:ALA:HA	1.62	0.82
1:c:524:MET:HE2	1:c:573:ALA:HA	1.62	0.82
1:q:524:MET:HE2	1:q:573:ALA:HA	1.62	0.82
1:x:524:MET:HE2	1:x:573:ALA:HA	1.62	0.82
1:y:524:MET:HE2	1:y:573:ALA:HA	1.62	0.82
1:B:524:MET:HE2	1:B:573:ALA:HA	1.62	0.82
1:0:524:MET:HE2	1:0:573:ALA:HA	1.62	0.82
1:m:524:MET:HE2	1:m:573:ALA:HA	1.62	0.82
1:z:524:MET:HE2	1:z:573:ALA:HA	1.62	0.82
1:E:524:MET:HE2	1:E:573:ALA:HA	1.62	0.82
1:R:524:MET:HE2	1:R:573:ALA:HA	1.62	0.82
1:1:524:MET:HE2	1:1:573:ALA:HA	1.62	0.82
1:f:524:MET:HE2	1:f:573:ALA:HA	1.62	0.82
1:b:524:MET:HE2	1:b:573:ALA:HA	1.62	0.82
1:d:524:MET:HE2	1:d:573:ALA:HA	1.62	0.82
1:6:524:MET:HE2	1:6:573:ALA:HA	1.62	0.82
1:T:524:MET:HE2	1:T:573:ALA:HA	1.62	0.81
1:j:524:MET:HE2	1:j:573:ALA:HA	1.62	0.81
1:Z:524:MET:HE2	1:Z:573:ALA:HA	1.62	0.81
1:l:524:MET:HE2	1:l:573:ALA:HA	1.62	0.81
1:F:524:MET:HE2	1:F:573:ALA:HA	1.62	0.81
1:s:524:MET:HE2	1:s:573:ALA:HA	1.62	0.81
1:p:524:MET:HE2	1:p:573:ALA:HA	1.62	0.81
1:O:524:MET:HE2	1:O:573:ALA:HA	1.62	0.81
1:g:524:MET:HE2	1:g:573:ALA:HA	1.62	0.81
1:o:524:MET:HE2	1:o:573:ALA:HA	1.62	0.81
1:Q:524:MET:HE2	1:Q:573:ALA:HA	1.62	0.81
1:4:524:MET:HE2	1:4:573:ALA:HA	1.62	0.81
1:L:524:MET:HE2	1:L:573:ALA:HA	1.62	0.81
1:w:524:MET:HE2	1:w:573:ALA:HA	1.62	0.81
1:C:524:MET:HE2	1:C:573:ALA:HA	1.62	0.80
1:I:524:MET:HE2	1:I:573:ALA:HA	1.62	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:524:MET:HE2	1:2:573:ALA:HA	1.62	0.80
1:e:524:MET:HE2	1:e:573:ALA:HA	1.62	0.80
1:t:524:MET:HE2	1:t:573:ALA:HA	1.62	0.80
1:G:524:MET:HE2	1:G:573:ALA:HA	1.62	0.80
1:H:524:MET:HE2	1:H:573:ALA:HA	1.62	0.80
1:W:524:MET:HE2	1:W:573:ALA:HA	1.62	0.80
1:5:524:MET:HE2	1:5:573:ALA:HA	1.62	0.80
1:n:524:MET:HE2	1:n:573:ALA:HA	1.62	0.80
1:K:524:MET:HE2	1:K:573:ALA:HA	1.62	0.80
1:U:524:MET:HE2	1:U:573:ALA:HA	1.62	0.80
1:h:524:MET:HE2	1:h:573:ALA:HA	1.62	0.80
1:7:524:MET:HE2	1:7:573:ALA:HA	1.62	0.80
1:D:524:MET:HE2	1:D:573:ALA:HA	1.62	0.80
1:S:524:MET:HE2	1:S:573:ALA:HA	1.62	0.80
1:P:524:MET:HE2	1:P:573:ALA:HA	1.62	0.80
1:N:524:MET:HE2	1:N:573:ALA:HA	1.62	0.80
1:k:524:MET:HE2	1:k:573:ALA:HA	1.62	0.80
1:u:524:MET:HE2	1:u:573:ALA:HA	1.62	0.80
1:v:524:MET:HE2	1:v:573:ALA:HA	1.62	0.80
1:r:524:MET:HE2	1:r:573:ALA:HA	1.62	0.79
1:G:315:LYS:HG2	1:G:411:THR:HG22	1.65	0.79
1:L:315:LYS:HG2	1:L:411:THR:HG22	1.65	0.79
1:S:315:LYS:HG2	1:S:411:THR:HG22	1.65	0.79
1:j:315:LYS:HG2	1:j:411:THR:HG22	1.65	0.79
1:7:315:LYS:HG2	1:7:411:THR:HG22	1.65	0.79
1:H:315:LYS:HG2	1:H:411:THR:HG22	1.65	0.79
1:M:524:MET:HE2	1:M:573:ALA:HA	1.62	0.79
1:U:315:LYS:HG2	1:U:411:THR:HG22	1.65	0.79
1:4:315:LYS:HG2	1:4:411:THR:HG22	1.65	0.79
1:d:315:LYS:HG2	1:d:411:THR:HG22	1.65	0.79
1:v:315:LYS:HG2	1:v:411:THR:HG22	1.65	0.79
1:I:315:LYS:HG2	1:I:411:THR:HG22	1.65	0.79
1:K:315:LYS:HG2	1:K:411:THR:HG22	1.65	0.79
1:P:315:LYS:HG2	1:P:411:THR:HG22	1.65	0.79
1:W:315:LYS:HG2	1:W:411:THR:HG22	1.65	0.79
1:A:524:MET:HE2	1:A:573:ALA:HA	1.62	0.79
1:Y:524:MET:HE2	1:Y:573:ALA:HA	1.62	0.79
1:1:315:LYS:HG2	1:1:411:THR:HG22	1.65	0.79
1:a:524:MET:HE2	1:a:573:ALA:HA	1.62	0.79
1:A:315:LYS:HG2	1:A:411:THR:HG22	1.65	0.79
1:b:315:LYS:HG2	1:b:411:THR:HG22	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:315:LYS:HG2	1:C:411:THR:HG22	1.65	0.79
1:Y:315:LYS:HG2	1:Y:411:THR:HG22	1.65	0.79
1:c:315:LYS:HG2	1:c:411:THR:HG22	1.65	0.79
1:i:315:LYS:HG2	1:i:411:THR:HG22	1.65	0.79
1:V:315:LYS:HG2	1:V:411:THR:HG22	1.65	0.79
1:5:315:LYS:HG2	1:5:411:THR:HG22	1.65	0.79
1:n:315:LYS:HG2	1:n:411:THR:HG22	1.65	0.79
1:J:315:LYS:HG2	1:J:411:THR:HG22	1.65	0.79
1:f:315:LYS:HG2	1:f:411:THR:HG22	1.65	0.79
1:y:315:LYS:HG2	1:y:411:THR:HG22	1.65	0.79
1:z:315:LYS:HG2	1:z:411:THR:HG22	1.65	0.79
1:3:315:LYS:HG2	1:3:411:THR:HG22	1.65	0.78
1:h:315:LYS:HG2	1:h:411:THR:HG22	1.65	0.78
1:F:315:LYS:HG2	1:F:411:THR:HG22	1.65	0.78
1:Z:315:LYS:HG2	1:Z:411:THR:HG22	1.65	0.78
1:E:315:LYS:HG2	1:E:411:THR:HG22	1.65	0.78
1:R:315:LYS:HG2	1:R:411:THR:HG22	1.65	0.78
1:k:315:LYS:HG2	1:k:411:THR:HG22	1.65	0.78
1:r:315:LYS:HG2	1:r:411:THR:HG22	1.65	0.78
1:D:315:LYS:HG2	1:D:411:THR:HG22	1.65	0.78
1:0:315:LYS:HG2	1:0:411:THR:HG22	1.65	0.78
1:x:315:LYS:HG2	1:x:411:THR:HG22	1.65	0.78
1:s:315:LYS:HG2	1:s:411:THR:HG22	1.65	0.78
1:t:315:LYS:HG2	1:t:411:THR:HG22	1.65	0.78
1:l:315:LYS:HG2	1:l:411:THR:HG22	1.65	0.77
1:T:315:LYS:HG2	1:T:411:THR:HG22	1.65	0.77
1:a:315:LYS:HG2	1:a:411:THR:HG22	1.65	0.77
1:m:315:LYS:HG2	1:m:411:THR:HG22	1.65	0.77
1:6:315:LYS:HG2	1:6:411:THR:HG22	1.65	0.77
1:o:315:LYS:HG2	1:o:411:THR:HG22	1.65	0.77
1:q:315:LYS:HG2	1:q:411:THR:HG22	1.65	0.77
1:M:315:LYS:HG2	1:M:411:THR:HG22	1.65	0.77
1:O:315:LYS:HG2	1:O:411:THR:HG22	1.65	0.77
1:w:315:LYS:HG2	1:w:411:THR:HG22	1.65	0.76
1:N:315:LYS:HG2	1:N:411:THR:HG22	1.65	0.76
1:Q:315:LYS:HG2	1:Q:411:THR:HG22	1.65	0.76
1:u:315:LYS:HG2	1:u:411:THR:HG22	1.65	0.76
1:B:315:LYS:HG2	1:B:411:THR:HG22	1.65	0.76
1:2:315:LYS:HG2	1:2:411:THR:HG22	1.65	0.76
1:e:315:LYS:HG2	1:e:411:THR:HG22	1.65	0.76
1:p:315:LYS:HG2	1:p:411:THR:HG22	1.65	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:315:LYS:HG2	1:g:411:THR:HG22	1.65	0.76
1:X:315:LYS:HG2	1:X:411:THR:HG22	1.65	0.76
1:K:397:GLU:OE2	1:K:650:LYS:NZ	2.21	0.73
1:U:397:GLU:OE2	1:U:650:LYS:NZ	2.21	0.73
1:a:397:GLU:OE2	1:a:650:LYS:NZ	2.21	0.73
1:T:397:GLU:OE2	1:T:650:LYS:NZ	2.21	0.73
1:6:397:GLU:OE2	1:6:650:LYS:NZ	2.21	0.73
1:J:397:GLU:OE2	1:J:650:LYS:NZ	2.21	0.72
1:R:397:GLU:OE2	1:R:650:LYS:NZ	2.21	0.72
1:V:397:GLU:OE2	1:V:650:LYS:NZ	2.21	0.72
1:l:397:GLU:OE2	1:l:650:LYS:NZ	2.21	0.72
1:s:397:GLU:OE2	1:s:650:LYS:NZ	2.21	0.72
1:Z:397:GLU:OE2	1:Z:650:LYS:NZ	2.21	0.72
1:w:397:GLU:OE2	1:w:650:LYS:NZ	2.21	0.72
1:P:397:GLU:OE2	1:P:650:LYS:NZ	2.21	0.71
1:g:397:GLU:OE2	1:g:650:LYS:NZ	2.21	0.71
1:v:397:GLU:OE2	1:v:650:LYS:NZ	2.21	0.71
1:A:397:GLU:OE2	1:A:650:LYS:NZ	2.21	0.71
1:Y:397:GLU:OE2	1:Y:650:LYS:NZ	2.21	0.71
1:3:397:GLU:OE2	1:3:650:LYS:NZ	2.21	0.71
1:y:397:GLU:OE2	1:y:650:LYS:NZ	2.21	0.71
1:E:397:GLU:OE2	1:E:650:LYS:NZ	2.21	0.71
1:p:397:GLU:OE2	1:p:650:LYS:NZ	2.21	0.71
1:1:397:GLU:OE2	1:1:650:LYS:NZ	2.21	0.70
1:7:397:GLU:OE2	1:7:650:LYS:NZ	2.21	0.70
1:N:397:GLU:OE2	1:N:650:LYS:NZ	2.21	0.70
1:S:397:GLU:OE2	1:S:650:LYS:NZ	2.21	0.70
1:2:397:GLU:OE2	1:2:650:LYS:NZ	2.21	0.70
1:x:397:GLU:OE2	1:x:650:LYS:NZ	2.21	0.70
1:b:397:GLU:OE2	1:b:650:LYS:NZ	2.21	0.70
1:Q:397:GLU:OE2	1:Q:650:LYS:NZ	2.21	0.70
1:u:397:GLU:OE2	1:u:650:LYS:NZ	2.21	0.70
1:e:397:GLU:OE2	1:e:650:LYS:NZ	2.21	0.70
1:C:397:GLU:OE2	1:C:650:LYS:NZ	2.21	0.70
1:O:397:GLU:OE2	1:O:650:LYS:NZ	2.21	0.70
1:5:397:GLU:OE2	1:5:650:LYS:NZ	2.21	0.70
1:o:397:GLU:OE2	1:o:650:LYS:NZ	2.21	0.69
1:h:397:GLU:OE2	1:h:650:LYS:NZ	2.21	0.69
1:C:586:ARG:HG3	1:C:588:ASN:H	1.58	0.69
1:I:586:ARG:HG3	1:I:588:ASN:H	1.58	0.69
1:M:586:ARG:HG3	1:M:588:ASN:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:586:ARG:HG3	1:P:588:ASN:H	1.58	0.69
1:W:586:ARG:HG3	1:W:588:ASN:H	1.58	0.69
1:a:586:ARG:HG3	1:a:588:ASN:H	1.58	0.69
1:d:586:ARG:HG3	1:d:588:ASN:H	1.58	0.69
1:g:586:ARG:HG3	1:g:588:ASN:H	1.58	0.69
1:j:397:GLU:OE2	1:j:650:LYS:NZ	2.21	0.69
1:j:586:ARG:HG3	1:j:588:ASN:H	1.58	0.69
1:p:586:ARG:HG3	1:p:588:ASN:H	1.58	0.69
1:v:586:ARG:HG3	1:v:588:ASN:H	1.58	0.69
1:B:397:GLU:OE2	1:B:650:LYS:NZ	2.21	0.69
1:5:586:ARG:HG3	1:5:588:ASN:H	1.58	0.69
1:n:397:GLU:OE2	1:n:650:LYS:NZ	2.21	0.69
1:N:586:ARG:HG3	1:N:588:ASN:H	1.58	0.69
1:U:586:ARG:HG3	1:U:588:ASN:H	1.58	0.69
1:c:586:ARG:HG3	1:c:588:ASN:H	1.58	0.69
1:d:397:GLU:OE2	1:d:650:LYS:NZ	2.21	0.69
1:i:586:ARG:HG3	1:i:588:ASN:H	1.58	0.69
1:K:586:ARG:HG3	1:K:588:ASN:H	1.58	0.68
1:e:586:ARG:HG3	1:e:588:ASN:H	1.58	0.68
1:u:586:ARG:HG3	1:u:588:ASN:H	1.58	0.68
1:D:397:GLU:OE2	1:D:650:LYS:NZ	2.21	0.68
1:0:397:GLU:OE2	1:0:650:LYS:NZ	2.21	0.68
1:2:586:ARG:HG3	1:2:588:ASN:H	1.58	0.68
1:f:586:ARG:HG3	1:f:588:ASN:H	1.58	0.68
1:D:586:ARG:HG3	1:D:588:ASN:H	1.58	0.68
1:S:586:ARG:HG3	1:S:588:ASN:H	1.58	0.68
1:3:702:THR:HG23	1:h:700:GLN:H	1.59	0.68
1:k:397:GLU:OE2	1:k:650:LYS:NZ	2.21	0.68
1:z:586:ARG:HG3	1:z:588:ASN:H	1.58	0.68
1:A:586:ARG:HG3	1:A:588:ASN:H	1.58	0.68
1:B:586:ARG:HG3	1:B:588:ASN:H	1.58	0.68
1:H:397:GLU:OE2	1:H:650:LYS:NZ	2.21	0.68
1:X:586:ARG:HG3	1:X:588:ASN:H	1.58	0.68
1:Z:586:ARG:HG3	1:Z:588:ASN:H	1.58	0.68
1:s:586:ARG:HG3	1:s:588:ASN:H	1.58	0.68
1:t:397:GLU:OE2	1:t:650:LYS:NZ	2.21	0.68
1:t:586:ARG:HG3	1:t:588:ASN:H	1.58	0.68
1:7:586:ARG:HG3	1:7:588:ASN:H	1.58	0.68
1:G:397:GLU:OE2	1:G:650:LYS:NZ	2.21	0.68
1:O:586:ARG:HG3	1:O:588:ASN:H	1.58	0.68
1:Y:586:ARG:HG3	1:Y:588:ASN:H	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:586:ARG:HG3	1:b:588:ASN:H	1.58	0.68
1:c:397:GLU:OE2	1:c:650:LYS:NZ	2.21	0.68
1:F:586:ARG:HG3	1:F:588:ASN:H	1.58	0.68
1:l:586:ARG:HG3	1:l:588:ASN:H	1.58	0.68
1:o:586:ARG:HG3	1:o:588:ASN:H	1.58	0.68
1:D:700:GLN:H	1:M:702:THR:HG23	1.59	0.68
1:E:586:ARG:HG3	1:E:588:ASN:H	1.58	0.68
1:R:586:ARG:HG3	1:R:588:ASN:H	1.58	0.68
1:T:586:ARG:HG3	1:T:588:ASN:H	1.58	0.68
1:1:586:ARG:HG3	1:1:588:ASN:H	1.58	0.68
1:b:700:GLN:H	1:e:702:THR:HG23	1.59	0.68
1:i:397:GLU:OE2	1:i:650:LYS:NZ	2.21	0.68
1:r:397:GLU:OE2	1:r:650:LYS:NZ	2.21	0.68
1:H:586:ARG:HG3	1:H:588:ASN:H	1.58	0.68
1:a:702:THR:HG23	1:t:700:GLN:H	1.59	0.68
1:G:586:ARG:HG3	1:G:588:ASN:H	1.58	0.67
1:L:397:GLU:OE2	1:L:650:LYS:NZ	2.21	0.67
1:1:700:GLN:H	1:2:702:THR:HG23	1.59	0.67
1:d:700:GLN:H	1:q:702:THR:HG23	1.59	0.67
1:x:586:ARG:HG3	1:x:588:ASN:H	1.58	0.67
1:6:586:ARG:HG3	1:6:588:ASN:H	1.58	0.67
1:6:702:THR:HG23	1:7:700:GLN:H	1.59	0.67
1:0:586:ARG:HG3	1:0:588:ASN:H	1.58	0.67
1:j:700:GLN:H	1:m:702:THR:HG23	1.60	0.67
1:B:700:GLN:H	1:I:702:THR:HG23	1.59	0.67
1:I:397:GLU:OE2	1:I:650:LYS:NZ	2.21	0.67
1:S:700:GLN:H	1:T:702:THR:HG23	1.60	0.67
1:W:702:THR:HG23	1:X:700:GLN:H	1.59	0.67
1:f:397:GLU:OE2	1:f:650:LYS:NZ	2.21	0.67
1:k:700:GLN:H	1:r:702:THR:HG23	1.59	0.67
1:n:700:GLN:H	1:y:702:THR:HG23	1.59	0.67
1:z:397:GLU:OE2	1:z:650:LYS:NZ	2.21	0.67
1:C:702:THR:HG23	1:L:700:GLN:H	1.59	0.67
1:E:700:GLN:H	1:P:702:THR:HG23	1.60	0.67
1:0:702:THR:HG23	1:w:700:GLN:H	1.60	0.67
1:4:700:GLN:H	1:5:702:THR:HG23	1.59	0.67
1:k:702:THR:HG23	1:r:700:GLN:H	1.60	0.67
1:r:586:ARG:HG3	1:r:588:ASN:H	1.58	0.67
1:v:702:THR:HG23	1:x:700:GLN:H	1.59	0.67
1:D:702:THR:HG23	1:M:700:GLN:H	1.59	0.67
1:4:397:GLU:OE2	1:4:650:LYS:NZ	2.21	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:586:ARG:HG3	1:4:588:ASN:H	1.58	0.67
1:g:702:THR:HG23	1:l:700:GLN:H	1.60	0.67
1:n:586:ARG:HG3	1:n:588:ASN:H	1.58	0.67
1:Q:700:GLN:H	1:R:702:THR:HG23	1.60	0.67
1:W:397:GLU:OE2	1:W:650:LYS:NZ	2.21	0.67
1:b:702:THR:HG23	1:e:700:GLN:H	1.59	0.67
1:g:700:GLN:H	1:l:702:THR:HG23	1.59	0.67
1:k:586:ARG:HG3	1:k:588:ASN:H	1.58	0.67
1:p:702:THR:HG23	1:s:700:GLN:H	1.60	0.67
1:w:586:ARG:HG3	1:w:588:ASN:H	1.58	0.67
1:Q:586:ARG:HG3	1:Q:588:ASN:H	1.58	0.67
1:l:702:THR:HG23	1:2:700:GLN:H	1.59	0.67
1:a:700:GLN:H	1:t:702:THR:HG23	1.59	0.67
1:o:702:THR:HG23	1:u:700:GLN:H	1.60	0.67
1:L:586:ARG:HG3	1:L:588:ASN:H	1.58	0.67
1:3:586:ARG:HG3	1:3:588:ASN:H	1.58	0.67
1:c:702:THR:HG23	1:f:700:GLN:H	1.60	0.67
1:E:702:THR:HG23	1:P:700:GLN:H	1.59	0.67
1:M:397:GLU:OE2	1:M:650:LYS:NZ	2.21	0.67
1:N:700:GLN:H	1:O:702:THR:HG23	1.60	0.67
1:h:586:ARG:HG3	1:h:588:ASN:H	1.58	0.67
1:0:700:GLN:H	1:w:702:THR:HG23	1.60	0.67
1:i:702:THR:HG23	1:z:700:GLN:H	1.60	0.67
1:v:700:GLN:H	1:x:702:THR:HG23	1.59	0.67
1:y:586:ARG:HG3	1:y:588:ASN:H	1.58	0.67
1:Q:702:THR:HG23	1:R:700:GLN:H	1.60	0.66
1:X:397:GLU:OE2	1:X:650:LYS:NZ	2.21	0.66
1:N:702:THR:HG23	1:O:700:GLN:H	1.59	0.66
1:V:586:ARG:HG3	1:V:588:ASN:H	1.58	0.66
1:m:397:GLU:OE2	1:m:650:LYS:NZ	2.21	0.66
1:o:700:GLN:H	1:u:702:THR:HG23	1.59	0.66
1:p:700:GLN:H	1:s:702:THR:HG23	1.60	0.66
1:q:397:GLU:OE2	1:q:650:LYS:NZ	2.21	0.66
1:G:700:GLN:H	1:H:702:THR:HG23	1.59	0.66
1:B:702:THR:HG23	1:I:700:GLN:H	1.60	0.66
1:J:586:ARG:HG3	1:J:588:ASN:H	1.58	0.66
1:U:700:GLN:H	1:V:702:THR:HG23	1.60	0.66
1:W:700:GLN:H	1:X:702:THR:HG23	1.60	0.66
1:n:501:TYR:CE2	1:p:449:THR:HG21	2.30	0.66
1:q:586:ARG:HG3	1:q:588:ASN:H	1.58	0.66
1:G:702:THR:HG23	1:H:700:GLN:H	1.59	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:702:THR:HG23	1:K:700:GLN:H	1.60	0.66
1:m:586:ARG:HG3	1:m:588:ASN:H	1.58	0.66
1:n:702:THR:HG23	1:y:700:GLN:H	1.60	0.66
1:6:700:GLN:H	1:7:702:THR:HG23	1.59	0.66
1:S:702:THR:HG23	1:T:700:GLN:H	1.60	0.66
1:Y:702:THR:HG23	1:Z:700:GLN:H	1.60	0.66
1:j:702:THR:HG23	1:m:700:GLN:H	1.60	0.66
1:n:449:THR:HG21	1:o:501:TYR:CE2	2.31	0.66
1:J:449:THR:HG21	1:L:501:TYR:CE2	2.31	0.66
1:A:702:THR:HG23	1:F:700:GLN:H	1.60	0.66
1:B:449:THR:HG21	1:J:501:TYR:CE2	2.31	0.66
1:F:397:GLU:OE2	1:F:650:LYS:NZ	2.21	0.66
1:T:501:TYR:CE2	1:f:449:THR:HG21	2.31	0.66
1:c:700:GLN:H	1:f:702:THR:HG23	1.60	0.66
1:d:702:THR:HG23	1:q:700:GLN:H	1.60	0.66
1:i:700:GLN:H	1:z:702:THR:HG23	1.60	0.66
1:A:700:GLN:H	1:F:702:THR:HG23	1.60	0.65
1:V:449:THR:HG21	1:4:501:TYR:CE2	2.31	0.65
1:V:501:TYR:CE2	1:X:449:THR:HG21	2.31	0.65
1:Y:700:GLN:H	1:Z:702:THR:HG23	1.59	0.65
1:c:449:THR:HG21	1:d:501:TYR:CE2	2.31	0.65
1:i:449:THR:HG21	1:j:501:TYR:CE2	2.32	0.65
1:k:449:THR:HG21	1:l:501:TYR:CE2	2.31	0.65
1:r:449:THR:HG21	1:s:501:TYR:CE2	2.31	0.65
1:D:501:TYR:CE2	1:P:449:THR:HG21	2.32	0.65
1:F:501:TYR:CE2	1:Q:449:THR:HG21	2.32	0.65
1:c:501:TYR:CE2	1:e:449:THR:HG21	2.31	0.65
1:N:449:THR:HG21	1:P:501:TYR:CE2	2.31	0.65
1:R:449:THR:HG21	1:S:501:TYR:CE2	2.32	0.65
1:Z:501:TYR:CE2	1:w:449:THR:HG21	2.32	0.65
1:2:449:THR:HG21	1:i:501:TYR:CE2	2.31	0.65
1:k:501:TYR:CE2	1:m:449:THR:HG21	2.32	0.65
1:t:501:TYR:CE2	1:v:449:THR:HG21	2.32	0.65
1:y:501:TYR:CE2	1:6:449:THR:HG21	2.32	0.65
1:z:449:THR:HG21	1:6:501:TYR:CE2	2.32	0.65
1:A:252:TYR:OH	1:A:373:VAL:O	2.15	0.65
1:T:449:THR:HG21	1:3:501:TYR:CE2	2.32	0.65
1:O:449:THR:HG21	1:7:501:TYR:CE2	2.32	0.65
1:u:449:THR:HG21	1:v:501:TYR:CE2	2.31	0.65
1:D:449:THR:HG21	1:N:501:TYR:CE2	2.32	0.65
1:X:501:TYR:CE2	1:4:449:THR:HG21	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:449:THR:HG21	1:h:501:TYR:CE2	2.31	0.65
1:o:449:THR:HG21	1:p:501:TYR:CE2	2.31	0.65
1:q:449:THR:HG21	1:r:501:TYR:CE2	2.32	0.65
1:t:449:THR:HG21	1:u:501:TYR:CE2	2.31	0.65
1:Z:449:THR:HG21	1:x:501:TYR:CE2	2.32	0.65
1:3:700:GLN:H	1:h:702:THR:HG23	1.61	0.65
1:4:702:THR:HG23	1:5:700:GLN:H	1.60	0.65
1:O:449:THR:HG21	1:g:501:TYR:CE2	2.31	0.65
1:O:501:TYR:CE2	1:h:449:THR:HG21	2.32	0.65
1:W:449:THR:HG21	1:Y:501:TYR:CE2	2.31	0.65
1:5:252:TYR:OH	1:5:373:VAL:O	2.15	0.65
1:B:501:TYR:CE2	1:L:449:THR:HG21	2.31	0.65
1:C:252:TYR:OH	1:C:373:VAL:O	2.15	0.65
1:C:449:THR:HG21	1:l:501:TYR:CE2	2.31	0.65
1:C:700:GLN:H	1:L:702:THR:HG23	1.60	0.65
1:E:501:TYR:CE2	1:F:449:THR:HG21	2.32	0.65
1:5:501:TYR:CE2	1:a:449:THR:HG21	2.31	0.65
1:6:252:TYR:OH	1:6:373:VAL:O	2.15	0.65
1:A:501:TYR:CE2	1:I:449:THR:HG21	2.31	0.65
1:C:501:TYR:CE2	1:M:449:THR:HG21	2.31	0.65
1:J:700:GLN:H	1:K:702:THR:HG23	1.60	0.65
1:U:702:THR:HG23	1:V:700:GLN:H	1.59	0.65
1:2:501:TYR:CE2	1:j:449:THR:HG21	2.32	0.65
1:5:449:THR:HG21	1:b:501:TYR:CE2	2.31	0.65
1:w:501:TYR:CE2	1:x:449:THR:HG21	2.32	0.65
1:A:449:THR:HG21	1:G:501:TYR:CE2	2.32	0.65
1:E:449:THR:HG21	1:Q:501:TYR:CE2	2.32	0.65
1:N:436:ASN:HB2	1:P:354:VAL:HG11	1.79	0.65
1:S:449:THR:HG21	1:U:501:TYR:CE2	2.31	0.65
1:T:252:TYR:OH	1:T:373:VAL:O	2.15	0.65
1:V:252:TYR:OH	1:V:373:VAL:O	2.15	0.65
1:3:449:THR:HG21	1:f:501:TYR:CE2	2.31	0.65
1:d:449:THR:HG21	1:e:501:TYR:CE2	2.32	0.65
1:g:252:TYR:OH	1:g:373:VAL:O	2.15	0.65
1:H:501:TYR:CE2	1:Y:449:THR:HG21	2.32	0.64
1:2:436:ASN:HB2	1:i:354:VAL:HG11	1.80	0.64
1:c:354:VAL:HG11	1:e:436:ASN:HB2	1.80	0.64
1:c:693:LYS:NZ	1:f:231:ASP:OD1	2.30	0.64
1:p:252:TYR:OH	1:p:373:VAL:O	2.15	0.64
1:u:436:ASN:HB2	1:v:354:VAL:HG11	1.80	0.64
1:x:252:TYR:OH	1:x:373:VAL:O	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:501:TYR:CE2	1:7:449:THR:HG21	2.32	0.64
1:S:436:ASN:HB2	1:U:354:VAL:HG11	1.80	0.64
1:n:252:TYR:OH	1:n:373:VAL:O	2.15	0.64
1:w:252:TYR:OH	1:w:373:VAL:O	2.15	0.64
1:y:449:THR:HG21	1:z:501:TYR:CE2	2.31	0.64
1:E:231:ASP:OD1	1:P:693:LYS:NZ	2.30	0.64
1:E:252:TYR:OH	1:E:373:VAL:O	2.15	0.64
1:J:252:TYR:OH	1:J:373:VAL:O	2.15	0.64
1:K:354:VAL:HG11	1:7:436:ASN:HB2	1.80	0.64
1:Q:252:TYR:OH	1:Q:373:VAL:O	2.15	0.64
1:d:252:TYR:OH	1:d:373:VAL:O	2.15	0.64
1:i:693:LYS:NZ	1:z:231:ASP:OD1	2.31	0.64
1:R:354:VAL:HG11	1:U:436:ASN:HB2	1.79	0.64
1:h:252:TYR:OH	1:h:373:VAL:O	2.15	0.64
1:j:252:TYR:OH	1:j:373:VAL:O	2.15	0.64
1:v:693:LYS:NZ	1:x:231:ASP:OD1	2.30	0.64
1:G:231:ASP:OD1	1:H:693:LYS:NZ	2.31	0.64
1:G:436:ASN:HB2	1:I:354:VAL:HG11	1.80	0.64
1:G:693:LYS:NZ	1:H:231:ASP:OD1	2.31	0.64
1:R:501:TYR:CE2	1:U:449:THR:HG21	2.32	0.64
1:k:436:ASN:HB2	1:l:354:VAL:HG11	1.80	0.64
1:l:449:THR:HG21	1:m:501:TYR:CE2	2.32	0.64
1:q:501:TYR:CE2	1:s:449:THR:HG21	2.31	0.64
1:r:436:ASN:HB2	1:s:354:VAL:HG11	1.80	0.64
1:s:252:TYR:OH	1:s:373:VAL:O	2.15	0.64
1:C:693:LYS:NZ	1:L:231:ASP:OD1	2.30	0.64
1:D:231:ASP:OD1	1:M:693:LYS:NZ	2.31	0.64
1:G:449:THR:HG21	1:I:501:TYR:CE2	2.31	0.64
1:K:436:ASN:HB2	1:0:354:VAL:HG11	1.80	0.64
1:4:231:ASP:OD1	1:5:693:LYS:NZ	2.30	0.64
1:i:436:ASN:HB2	1:j:354:VAL:HG11	1.79	0.64
1:l:252:TYR:OH	1:l:373:VAL:O	2.15	0.64
1:F:354:VAL:HG11	1:Q:436:ASN:HB2	1.80	0.64
1:H:436:ASN:HB2	1:W:354:VAL:HG11	1.80	0.64
1:H:449:THR:HG21	1:W:501:TYR:CE2	2.31	0.64
1:K:449:THR:HG21	1:0:501:TYR:CE2	2.32	0.64
1:Z:436:ASN:HB2	1:x:354:VAL:HG11	1.80	0.64
1:a:693:LYS:NZ	1:t:231:ASP:OD1	2.31	0.64
1:c:231:ASP:OD1	1:f:693:LYS:NZ	2.31	0.64
1:i:231:ASP:OD1	1:z:693:LYS:NZ	2.31	0.64
1:k:252:TYR:OH	1:k:373:VAL:O	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:436:ASN:HB2	1:o:354:VAL:HG11	1.80	0.64
1:B:354:VAL:HG11	1:L:436:ASN:HB2	1.80	0.64
1:C:436:ASN:HB2	1:1:354:VAL:HG11	1.79	0.64
1:E:354:VAL:HG11	1:F:436:ASN:HB2	1.80	0.64
1:E:693:LYS:NZ	1:P:231:ASP:OD1	2.31	0.64
1:M:501:TYR:CE2	1:1:449:THR:HG21	2.32	0.64
1:Z:354:VAL:HG11	1:w:436:ASN:HB2	1.79	0.64
1:a:501:TYR:CE2	1:b:449:THR:HG21	2.32	0.64
1:c:436:ASN:HB2	1:d:354:VAL:HG11	1.80	0.64
1:k:693:LYS:NZ	1:r:231:ASP:OD1	2.31	0.64
1:o:436:ASN:HB2	1:p:354:VAL:HG11	1.80	0.64
1:r:252:TYR:OH	1:r:373:VAL:O	2.15	0.64
1:O:436:ASN:HB2	1:g:354:VAL:HG11	1.80	0.64
1:P:252:TYR:OH	1:P:373:VAL:O	2.15	0.64
1:3:693:LYS:NZ	1:h:231:ASP:OD1	2.30	0.64
1:5:436:ASN:HB2	1:b:354:VAL:HG11	1.80	0.64
1:k:231:ASP:OD1	1:r:693:LYS:NZ	2.31	0.64
1:v:231:ASP:OD1	1:x:693:LYS:NZ	2.31	0.64
1:M:628:HIS:HD2	1:M:631:PRO:HG3	1.63	0.64
1:S:693:LYS:NZ	1:T:231:ASP:OD1	2.31	0.64
1:W:628:HIS:HD2	1:W:631:PRO:HG3	1.63	0.64
1:X:354:VAL:HG11	1:4:436:ASN:HB2	1.80	0.64
1:0:436:ASN:HB2	1:7:354:VAL:HG11	1.80	0.64
1:5:354:VAL:HG11	1:a:436:ASN:HB2	1.80	0.64
1:a:628:HIS:HD2	1:a:631:PRO:HG3	1.63	0.64
1:o:693:LYS:NZ	1:u:231:ASP:OD1	2.31	0.64
1:v:252:TYR:OH	1:v:373:VAL:O	2.15	0.64
1:B:231:ASP:OD1	1:I:693:LYS:NZ	2.31	0.63
1:D:436:ASN:HB2	1:N:354:VAL:HG11	1.80	0.63
1:I:628:HIS:HD2	1:I:631:PRO:HG3	1.63	0.63
1:K:252:TYR:OH	1:K:373:VAL:O	2.15	0.63
1:N:231:ASP:OD1	1:O:693:LYS:NZ	2.31	0.63
1:R:436:ASN:HB2	1:S:354:VAL:HG11	1.79	0.63
1:T:354:VAL:HG11	1:f:436:ASN:HB2	1.80	0.63
1:W:693:LYS:NZ	1:X:231:ASP:OD1	2.31	0.63
1:g:628:HIS:HD2	1:g:631:PRO:HG3	1.63	0.63
1:t:436:ASN:HB2	1:u:354:VAL:HG11	1.80	0.63
1:A:628:HIS:HD2	1:A:631:PRO:HG3	1.63	0.63
1:C:354:VAL:HG11	1:M:436:ASN:HB2	1.80	0.63
1:O:354:VAL:HG11	1:h:436:ASN:HB2	1.80	0.63
1:T:628:HIS:HD2	1:T:631:PRO:HG3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:252:TYR:OH	1:U:373:VAL:O	2.15	0.63
1:X:628:HIS:HD2	1:X:631:PRO:HG3	1.63	0.63
1:p:628:HIS:HD2	1:p:631:PRO:HG3	1.63	0.63
1:z:436:ASN:HB2	1:6:354:VAL:HG11	1.79	0.63
1:6:231:ASP:OD1	1:7:693:LYS:NZ	2.31	0.63
1:B:628:HIS:HD2	1:B:631:PRO:HG3	1.63	0.63
1:Y:628:HIS:HD2	1:Y:631:PRO:HG3	1.63	0.63
1:h:628:HIS:HD2	1:h:631:PRO:HG3	1.63	0.63
1:6:628:HIS:HD2	1:6:631:PRO:HG3	1.63	0.63
1:D:628:HIS:HD2	1:D:631:PRO:HG3	1.63	0.63
1:2:628:HIS:HD2	1:2:631:PRO:HG3	1.63	0.63
1:d:231:ASP:OD1	1:q:693:LYS:NZ	2.30	0.63
1:m:628:HIS:HD2	1:m:631:PRO:HG3	1.63	0.63
1:n:628:HIS:HD2	1:n:631:PRO:HG3	1.64	0.63
1:t:628:HIS:HD2	1:t:631:PRO:HG3	1.63	0.63
1:w:628:HIS:HD2	1:w:631:PRO:HG3	1.63	0.63
1:A:693:LYS:NZ	1:F:231:ASP:OD1	2.30	0.63
1:Q:628:HIS:HD2	1:Q:631:PRO:HG3	1.63	0.63
1:S:628:HIS:HD2	1:S:631:PRO:HG3	1.63	0.63
1:e:628:HIS:HD2	1:e:631:PRO:HG3	1.63	0.63
1:k:354:VAL:HG11	1:m:436:ASN:HB2	1.80	0.63
1:n:354:VAL:HG11	1:p:436:ASN:HB2	1.80	0.63
1:q:628:HIS:HD2	1:q:631:PRO:HG3	1.63	0.63
1:6:693:LYS:NZ	1:7:231:ASP:OD1	2.31	0.63
1:7:628:HIS:HD2	1:7:631:PRO:HG3	1.63	0.63
1:A:354:VAL:HG11	1:I:436:ASN:HB2	1.79	0.63
1:I:252:TYR:OH	1:I:373:VAL:O	2.15	0.63
1:W:436:ASN:HB2	1:Y:354:VAL:HG11	1.80	0.63
1:Y:693:LYS:NZ	1:Z:231:ASP:OD1	2.30	0.63
1:3:628:HIS:HD2	1:3:631:PRO:HG3	1.63	0.63
1:j:231:ASP:OD1	1:m:693:LYS:NZ	2.30	0.63
1:n:231:ASP:OD1	1:y:693:LYS:NZ	2.31	0.63
1:n:693:LYS:NZ	1:y:231:ASP:OD1	2.31	0.63
1:W:252:TYR:OH	1:W:373:VAL:O	2.15	0.63
1:c:628:HIS:HD2	1:c:631:PRO:HG3	1.63	0.63
1:q:436:ASN:HB2	1:r:354:VAL:HG11	1.80	0.63
1:u:628:HIS:HD2	1:u:631:PRO:HG3	1.63	0.63
1:y:354:VAL:HG11	1:6:436:ASN:HB2	1.80	0.63
1:N:628:HIS:HD2	1:N:631:PRO:HG3	1.63	0.63
1:O:252:TYR:OH	1:O:373:VAL:O	2.15	0.63
1:i:628:HIS:HD2	1:i:631:PRO:HG3	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:252:TYR:OH	1:o:373:VAL:O	2.15	0.63
1:y:628:HIS:HD2	1:y:631:PRO:HG3	1.63	0.63
1:E:436:ASN:HB2	1:Q:354:VAL:HG11	1.80	0.63
1:Q:231:ASP:OD1	1:R:693:LYS:NZ	2.30	0.63
1:T:436:ASN:HB2	1:3:354:VAL:HG11	1.80	0.63
1:0:693:LYS:NZ	1:w:231:ASP:OD1	2.31	0.63
1:b:628:HIS:HD2	1:b:631:PRO:HG3	1.63	0.63
1:w:354:VAL:HG11	1:x:436:ASN:HB2	1.80	0.63
1:x:628:HIS:HD2	1:x:631:PRO:HG3	1.63	0.63
1:E:628:HIS:HD2	1:E:631:PRO:HG3	1.63	0.62
1:V:271:ASN:HA	1:X:471:ILE:HG22	1.81	0.62
1:0:231:ASP:OD1	1:w:693:LYS:NZ	2.31	0.62
1:0:628:HIS:HD2	1:0:631:PRO:HG3	1.63	0.62
1:1:628:HIS:HD2	1:1:631:PRO:HG3	1.63	0.62
1:4:628:HIS:HD2	1:4:631:PRO:HG3	1.63	0.62
1:c:611:ASP:OD1	1:c:729:THR:HG22	1.99	0.62
1:e:611:ASP:OD1	1:e:729:THR:HG22	1.99	0.62
1:f:628:HIS:HD2	1:f:631:PRO:HG3	1.63	0.62
1:g:436:ASN:HB2	1:h:354:VAL:HG11	1.80	0.62
1:B:471:ILE:HG22	1:J:271:ASN:HA	1.82	0.62
1:D:611:ASP:OD1	1:D:729:THR:HG22	2.00	0.62
1:H:354:VAL:HG11	1:Y:436:ASN:HB2	1.79	0.62
1:K:611:ASP:OD1	1:K:729:THR:HG22	1.99	0.62
1:M:354:VAL:HG11	1:1:436:ASN:HB2	1.79	0.62
1:O:628:HIS:HD2	1:O:631:PRO:HG3	1.63	0.62
1:R:611:ASP:OD1	1:R:729:THR:HG22	1.99	0.62
1:R:628:HIS:HD2	1:R:631:PRO:HG3	1.63	0.62
1:2:611:ASP:OD1	1:2:729:THR:HG22	1.99	0.62
1:3:436:ASN:HB2	1:f:354:VAL:HG11	1.79	0.62
1:a:354:VAL:HG11	1:b:436:ASN:HB2	1.79	0.62
1:i:611:ASP:OD1	1:i:729:THR:HG22	2.00	0.62
1:r:628:HIS:HD2	1:r:631:PRO:HG3	1.63	0.62
1:t:611:ASP:OD1	1:t:729:THR:HG22	2.00	0.62
1:u:252:TYR:OH	1:u:373:VAL:O	2.15	0.62
1:y:436:ASN:HB2	1:z:354:VAL:HG11	1.80	0.62
1:B:252:TYR:OH	1:B:373:VAL:O	2.15	0.62
1:J:628:HIS:HD2	1:J:631:PRO:HG3	1.63	0.62
1:L:628:HIS:HD2	1:L:631:PRO:HG3	1.63	0.62
1:O:611:ASP:OD1	1:O:729:THR:HG22	1.99	0.62
1:U:611:ASP:OD1	1:U:729:THR:HG22	1.99	0.62
1:V:628:HIS:HD2	1:V:631:PRO:HG3	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:252:TYR:OH	1:X:373:VAL:O	2.15	0.62
1:0:611:ASP:OD1	1:0:729:THR:HG22	1.99	0.62
1:d:611:ASP:OD1	1:d:729:THR:HG22	1.99	0.62
1:j:611:ASP:OD1	1:j:729:THR:HG22	1.99	0.62
1:k:628:HIS:HD2	1:k:631:PRO:HG3	1.63	0.62
1:l:628:HIS:HD2	1:l:631:PRO:HG3	1.63	0.62
1:s:628:HIS:HD2	1:s:631:PRO:HG3	1.63	0.62
1:t:354:VAL:HG11	1:v:436:ASN:HB2	1.79	0.62
1:v:628:HIS:HD2	1:v:631:PRO:HG3	1.63	0.62
1:z:628:HIS:HD2	1:z:631:PRO:HG3	1.63	0.62
1:B:436:ASN:HB2	1:J:354:VAL:HG11	1.80	0.62
1:D:354:VAL:HG11	1:P:436:ASN:HB2	1.79	0.62
1:N:252:TYR:OH	1:N:373:VAL:O	2.15	0.62
1:T:471:ILE:HG22	1:3:271:ASN:HA	1.82	0.62
1:j:628:HIS:HD2	1:j:631:PRO:HG3	1.63	0.62
1:k:611:ASP:OD1	1:k:729:THR:HG22	2.00	0.62
1:m:252:TYR:OH	1:m:373:VAL:O	2.15	0.62
1:o:611:ASP:OD1	1:o:729:THR:HG22	1.99	0.62
1:q:252:TYR:OH	1:q:373:VAL:O	2.15	0.62
1:y:271:ASN:HA	1:6:471:ILE:HG22	1.82	0.62
1:A:436:ASN:HB2	1:G:354:VAL:HG11	1.80	0.62
1:B:693:LYS:NZ	1:I:231:ASP:OD1	2.31	0.62
1:P:628:HIS:HD2	1:P:631:PRO:HG3	1.63	0.62
1:R:252:TYR:OH	1:R:373:VAL:O	2.15	0.62
1:Y:231:ASP:OD1	1:Z:693:LYS:NZ	2.31	0.62
1:0:252:TYR:OH	1:0:373:VAL:O	2.15	0.62
1:3:231:ASP:OD1	1:h:693:LYS:NZ	2.32	0.62
1:d:693:LYS:NZ	1:q:231:ASP:OD1	2.31	0.62
1:m:611:ASP:OD1	1:m:729:THR:HG22	2.00	0.62
1:o:628:HIS:HD2	1:o:631:PRO:HG3	1.63	0.62
1:q:611:ASP:OD1	1:q:729:THR:HG22	1.99	0.62
1:r:611:ASP:OD1	1:r:729:THR:HG22	2.00	0.62
1:u:471:ILE:HG22	1:v:271:ASN:HA	1.82	0.62
1:D:471:ILE:HG22	1:N:271:ASN:HA	1.82	0.62
1:G:471:ILE:HG22	1:I:271:ASN:HA	1.82	0.62
1:G:628:HIS:HD2	1:G:631:PRO:HG3	1.63	0.62
1:H:628:HIS:HD2	1:H:631:PRO:HG3	1.63	0.62
1:K:628:HIS:HD2	1:K:631:PRO:HG3	1.63	0.62
1:N:471:ILE:HG22	1:P:271:ASN:HA	1.82	0.62
1:Q:693:LYS:NZ	1:R:231:ASP:OD1	2.31	0.62
1:T:611:ASP:OD1	1:T:729:THR:HG22	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:436:ASN:HB2	1:4:354:VAL:HG11	1.80	0.62
1:X:271:ASN:HA	1:4:471:ILE:HG22	1.82	0.62
1:c:471:ILE:HG22	1:d:271:ASN:HA	1.82	0.62
1:d:628:HIS:HD2	1:d:631:PRO:HG3	1.63	0.62
1:h:712:ASP:HB3	1:h:724:PRO:HG3	1.82	0.62
1:t:471:ILE:HG22	1:u:271:ASN:HA	1.82	0.62
1:H:471:ILE:HG22	1:W:271:ASN:HA	1.82	0.62
1:J:436:ASN:HB2	1:L:354:VAL:HG11	1.80	0.62
1:M:271:ASN:HA	1:1:471:ILE:HG22	1.82	0.62
1:S:231:ASP:OD1	1:T:693:LYS:NZ	2.31	0.62
1:V:354:VAL:HG11	1:X:436:ASN:HB2	1.80	0.62
1:W:231:ASP:OD1	1:X:693:LYS:NZ	2.31	0.62
1:2:354:VAL:HG11	1:j:436:ASN:HB2	1.80	0.62
1:a:271:ASN:HA	1:b:471:ILE:HG22	1.82	0.62
1:i:471:ILE:HG22	1:j:271:ASN:HA	1.82	0.62
1:j:693:LYS:NZ	1:m:231:ASP:OD1	2.31	0.62
1:l:436:ASN:HB2	1:m:354:VAL:HG11	1.80	0.62
1:n:712:ASP:HB3	1:n:724:PRO:HG3	1.82	0.62
1:7:611:ASP:OD1	1:7:729:THR:HG22	2.00	0.62
1:A:231:ASP:OD1	1:F:693:LYS:NZ	2.31	0.62
1:C:628:HIS:HD2	1:C:631:PRO:HG3	1.63	0.62
1:C:712:ASP:HB3	1:C:724:PRO:HG3	1.82	0.62
1:E:471:ILE:HG22	1:Q:271:ASN:HA	1.82	0.62
1:E:712:ASP:HB3	1:E:724:PRO:HG3	1.82	0.62
1:F:628:HIS:HD2	1:F:631:PRO:HG3	1.63	0.62
1:J:471:ILE:HG22	1:L:271:ASN:HA	1.81	0.62
1:N:611:ASP:OD1	1:N:729:THR:HG22	1.99	0.62
1:S:611:ASP:OD1	1:S:729:THR:HG22	2.00	0.62
1:5:712:ASP:HB3	1:5:724:PRO:HG3	1.82	0.62
1:a:611:ASP:OD1	1:a:729:THR:HG22	2.00	0.62
1:k:471:ILE:HG22	1:l:271:ASN:HA	1.82	0.62
1:q:354:VAL:HG11	1:s:436:ASN:HB2	1.79	0.62
1:u:611:ASP:OD1	1:u:729:THR:HG22	1.99	0.62
1:u:712:ASP:HB3	1:u:724:PRO:HG3	1.82	0.62
1:x:712:ASP:HB3	1:x:724:PRO:HG3	1.82	0.62
1:6:611:ASP:OD1	1:6:729:THR:HG22	2.00	0.62
1:B:271:ASN:HA	1:L:471:ILE:HG22	1.82	0.62
1:B:712:ASP:HB3	1:B:724:PRO:HG3	1.82	0.62
1:C:471:ILE:HG22	1:1:271:ASN:HA	1.82	0.62
1:L:611:ASP:OD1	1:L:729:THR:HG22	1.99	0.62
1:M:611:ASP:OD1	1:M:729:THR:HG22	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:712:ASP:HB3	1:N:724:PRO:HG3	1.82	0.62
1:S:252:TYR:OH	1:S:373:VAL:O	2.15	0.62
1:U:628:HIS:HD2	1:U:631:PRO:HG3	1.63	0.62
1:U:693:LYS:NZ	1:V:231:ASP:OD1	2.31	0.62
1:V:433:ARG:HA	1:V:435:MET:HE3	1.82	0.62
1:X:712:ASP:HB3	1:X:724:PRO:HG3	1.82	0.62
1:Z:628:HIS:HD2	1:Z:631:PRO:HG3	1.63	0.62
1:0:471:ILE:HG22	1:7:271:ASN:HA	1.82	0.62
1:1:231:ASP:OD1	1:2:693:LYS:NZ	2.31	0.62
1:5:602:LEU:N	1:5:605:MET:SD	2.71	0.62
1:b:611:ASP:OD1	1:b:729:THR:HG22	1.99	0.62
1:g:471:ILE:HG22	1:h:271:ASN:HA	1.82	0.62
1:n:271:ASN:HA	1:p:471:ILE:HG22	1.82	0.62
1:r:471:ILE:HG22	1:s:271:ASN:HA	1.82	0.62
1:w:271:ASN:HA	1:x:471:ILE:HG22	1.82	0.62
1:z:611:ASP:OD1	1:z:729:THR:HG22	1.99	0.62
1:D:433:ARG:HA	1:D:435:MET:HE3	1.82	0.62
1:G:611:ASP:OD1	1:G:729:THR:HG22	2.00	0.62
1:H:611:ASP:OD1	1:H:729:THR:HG22	2.00	0.62
1:J:433:ARG:HA	1:J:435:MET:HE3	1.82	0.62
1:Q:433:ARG:HA	1:Q:435:MET:HE3	1.82	0.62
1:R:471:ILE:HG22	1:S:271:ASN:HA	1.82	0.62
1:T:712:ASP:HB3	1:T:724:PRO:HG3	1.82	0.62
1:V:471:ILE:HG22	1:4:271:ASN:HA	1.82	0.62
1:2:712:ASP:HB3	1:2:724:PRO:HG3	1.82	0.62
1:5:471:ILE:HG22	1:b:271:ASN:HA	1.82	0.62
1:5:628:HIS:HD2	1:5:631:PRO:HG3	1.63	0.62
1:a:231:ASP:OD1	1:t:693:LYS:NZ	2.31	0.62
1:b:231:ASP:OD1	1:e:693:LYS:NZ	2.31	0.62
1:d:436:ASN:HB2	1:e:354:VAL:HG11	1.80	0.62
1:d:602:LEU:N	1:d:605:MET:SD	2.71	0.62
1:f:433:ARG:HA	1:f:435:MET:HE3	1.82	0.62
1:f:611:ASP:OD1	1:f:729:THR:HG22	1.99	0.62
1:v:611:ASP:OD1	1:v:729:THR:HG22	1.99	0.62
1:w:433:ARG:HA	1:w:435:MET:HE3	1.82	0.62
1:6:712:ASP:HB3	1:6:724:PRO:HG3	1.82	0.62
1:B:611:ASP:OD1	1:B:729:THR:HG22	1.99	0.61
1:H:271:ASN:HA	1:Y:471:ILE:HG22	1.82	0.61
1:I:712:ASP:HB3	1:I:724:PRO:HG3	1.82	0.61
1:J:231:ASP:OD1	1:K:693:LYS:NZ	2.31	0.61
1:P:611:ASP:OD1	1:P:729:THR:HG22	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:712:ASP:HB3	1:S:724:PRO:HG3	1.82	0.61
1:V:712:ASP:HB3	1:V:724:PRO:HG3	1.82	0.61
1:W:712:ASP:HB3	1:W:724:PRO:HG3	1.82	0.61
1:1:611:ASP:OD1	1:1:729:THR:HG22	1.99	0.61
1:1:693:LYS:NZ	1:2:231:ASP:OD1	2.30	0.61
1:3:602:LEU:N	1:3:605:MET:SD	2.71	0.61
1:3:712:ASP:HB3	1:3:724:PRO:HG3	1.82	0.61
1:4:611:ASP:OD1	1:4:729:THR:HG22	1.99	0.61
1:e:712:ASP:HB3	1:e:724:PRO:HG3	1.82	0.61
1:l:471:ILE:HG22	1:m:271:ASN:HA	1.82	0.61
1:q:271:ASN:HA	1:s:471:ILE:HG22	1.82	0.61
1:t:433:ARG:HA	1:t:435:MET:HE3	1.82	0.61
1:y:602:LEU:N	1:y:605:MET:SD	2.71	0.61
1:y:712:ASP:HB3	1:y:724:PRO:HG3	1.82	0.61
1:z:433:ARG:HA	1:z:435:MET:HE3	1.82	0.61
1:7:252:TYR:OH	1:7:373:VAL:O	2.15	0.61
1:A:471:ILE:HG22	1:G:271:ASN:HA	1.82	0.61
1:C:611:ASP:OD1	1:C:729:THR:HG22	1.99	0.61
1:D:693:LYS:NZ	1:M:231:ASP:OD1	2.31	0.61
1:J:712:ASP:HB3	1:J:724:PRO:HG3	1.82	0.61
1:R:433:ARG:HA	1:R:435:MET:HE3	1.82	0.61
1:W:433:ARG:HA	1:W:435:MET:HE3	1.82	0.61
1:5:611:ASP:OD1	1:5:729:THR:HG22	1.99	0.61
1:b:693:LYS:NZ	1:e:231:ASP:OD1	2.30	0.61
1:g:231:ASP:OD1	1:l:693:LYS:NZ	2.31	0.61
1:g:611:ASP:OD1	1:g:729:THR:HG22	1.99	0.61
1:k:433:ARG:HA	1:k:435:MET:HE3	1.82	0.61
1:m:433:ARG:HA	1:m:435:MET:HE3	1.82	0.61
1:n:611:ASP:OD1	1:n:729:THR:HG22	1.99	0.61
1:w:611:ASP:OD1	1:w:729:THR:HG22	2.00	0.61
1:x:611:ASP:OD1	1:x:729:THR:HG22	1.99	0.61
1:7:712:ASP:HB3	1:7:724:PRO:HG3	1.82	0.61
1:C:433:ARG:HA	1:C:435:MET:HE3	1.82	0.61
1:D:252:TYR:OH	1:D:373:VAL:O	2.15	0.61
1:H:712:ASP:HB3	1:H:724:PRO:HG3	1.82	0.61
1:T:433:ARG:HA	1:T:435:MET:HE3	1.82	0.61
1:T:483:CYS:SG	1:T:577:TYR:HB2	2.41	0.61
1:X:611:ASP:OD1	1:X:729:THR:HG22	2.00	0.61
1:Y:602:LEU:N	1:Y:605:MET:SD	2.71	0.61
1:O:433:ARG:HA	1:O:435:MET:HE3	1.82	0.61
1:1:433:ARG:HA	1:1:435:MET:HE3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:433:ARG:HA	1:b:435:MET:HE3	1.82	0.61
1:h:611:ASP:OD1	1:h:729:THR:HG22	1.99	0.61
1:j:602:LEU:N	1:j:605:MET:SD	2.71	0.61
1:p:231:ASP:OD1	1:s:693:LYS:NZ	2.31	0.61
1:p:611:ASP:OD1	1:p:729:THR:HG22	1.99	0.61
1:q:433:ARG:HA	1:q:435:MET:HE3	1.82	0.61
1:r:483:CYS:SG	1:r:577:TYR:HB2	2.41	0.61
1:w:712:ASP:HB3	1:w:724:PRO:HG3	1.82	0.61
1:E:433:ARG:HA	1:E:435:MET:HE3	1.82	0.61
1:E:611:ASP:OD1	1:E:729:THR:HG22	1.99	0.61
1:I:433:ARG:HA	1:I:435:MET:HE3	1.82	0.61
1:J:611:ASP:OD1	1:J:729:THR:HG22	1.99	0.61
1:O:471:ILE:HG22	1:g:271:ASN:HA	1.81	0.61
1:Q:611:ASP:OD1	1:Q:729:THR:HG22	2.00	0.61
1:Y:433:ARG:HA	1:Y:435:MET:HE3	1.82	0.61
1:3:252:TYR:OH	1:3:373:VAL:O	2.15	0.61
1:5:433:ARG:HA	1:5:435:MET:HE3	1.82	0.61
1:c:433:ARG:HA	1:c:435:MET:HE3	1.82	0.61
1:g:693:LYS:NZ	1:l:231:ASP:OD1	2.31	0.61
1:h:433:ARG:HA	1:h:435:MET:HE3	1.82	0.61
1:h:483:CYS:SG	1:h:577:TYR:HB2	2.41	0.61
1:k:483:CYS:SG	1:k:577:TYR:HB2	2.41	0.61
1:n:483:CYS:SG	1:n:577:TYR:HB2	2.41	0.61
1:r:433:ARG:HA	1:r:435:MET:HE3	1.82	0.61
1:t:252:TYR:OH	1:t:373:VAL:O	2.15	0.61
1:x:433:ARG:HA	1:x:435:MET:HE3	1.82	0.61
1:6:433:ARG:HA	1:6:435:MET:HE3	1.82	0.61
1:6:483:CYS:SG	1:6:577:TYR:HB2	2.41	0.61
1:A:433:ARG:HA	1:A:435:MET:HE3	1.82	0.61
1:A:712:ASP:HB3	1:A:724:PRO:HG3	1.82	0.61
1:E:483:CYS:SG	1:E:577:TYR:HB2	2.41	0.61
1:F:611:ASP:OD1	1:F:729:THR:HG22	1.99	0.61
1:G:712:ASP:HB3	1:G:724:PRO:HG3	1.82	0.61
1:O:712:ASP:HB3	1:O:724:PRO:HG3	1.82	0.61
1:Q:712:ASP:HB3	1:Q:724:PRO:HG3	1.82	0.61
1:S:433:ARG:HA	1:S:435:MET:HE3	1.82	0.61
1:V:611:ASP:OD1	1:V:729:THR:HG22	1.99	0.61
1:Y:712:ASP:HB3	1:Y:724:PRO:HG3	1.82	0.61
1:e:433:ARG:HA	1:e:435:MET:HE3	1.82	0.61
1:i:433:ARG:HA	1:i:435:MET:HE3	1.82	0.61
1:o:471:ILE:HG22	1:p:271:ASN:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:712:ASP:HB3	1:o:724:PRO:HG3	1.82	0.61
1:q:471:ILE:HG22	1:r:271:ASN:HA	1.82	0.61
1:u:433:ARG:HA	1:u:435:MET:HE3	1.82	0.61
1:x:483:CYS:SG	1:x:577:TYR:HB2	2.41	0.61
1:N:433:ARG:HA	1:N:435:MET:HE3	1.82	0.61
1:O:271:ASN:HA	1:h:471:ILE:HG22	1.81	0.61
1:Y:483:CYS:SG	1:Y:577:TYR:HB2	2.41	0.61
1:2:433:ARG:HA	1:2:435:MET:HE3	1.82	0.61
1:4:693:LYS:NZ	1:5:231:ASP:OD1	2.31	0.61
1:f:483:CYS:SG	1:f:577:TYR:HB2	2.41	0.61
1:g:433:ARG:HA	1:g:435:MET:HE3	1.82	0.61
1:i:712:ASP:HB3	1:i:724:PRO:HG3	1.82	0.61
1:k:712:ASP:HB3	1:k:724:PRO:HG3	1.82	0.61
1:v:483:CYS:SG	1:v:577:TYR:HB2	2.41	0.61
1:z:483:CYS:SG	1:z:577:TYR:HB2	2.41	0.61
1:7:433:ARG:HA	1:7:435:MET:HE3	1.82	0.61
1:A:483:CYS:SG	1:A:577:TYR:HB2	2.41	0.61
1:G:483:CYS:SG	1:G:577:TYR:HB2	2.41	0.61
1:H:483:CYS:SG	1:H:577:TYR:HB2	2.41	0.61
1:O:433:ARG:HA	1:O:435:MET:HE3	1.82	0.61
1:P:483:CYS:SG	1:P:577:TYR:HB2	2.41	0.61
1:W:611:ASP:OD1	1:W:729:THR:HG22	1.99	0.61
1:X:433:ARG:HA	1:X:435:MET:HE3	1.82	0.61
1:Z:611:ASP:OD1	1:Z:729:THR:HG22	1.99	0.61
1:d:483:CYS:SG	1:d:577:TYR:HB2	2.41	0.61
1:j:483:CYS:SG	1:j:577:TYR:HB2	2.41	0.61
1:k:271:ASN:HA	1:m:471:ILE:HG22	1.82	0.61
1:l:611:ASP:OD1	1:l:729:THR:HG22	1.99	0.61
1:n:433:ARG:HA	1:n:435:MET:HE3	1.82	0.61
1:p:433:ARG:HA	1:p:435:MET:HE3	1.82	0.61
1:p:693:LYS:NZ	1:s:231:ASP:OD1	2.31	0.61
1:A:611:ASP:OD1	1:A:729:THR:HG22	2.00	0.61
1:B:433:ARG:HA	1:B:435:MET:HE3	1.82	0.61
1:C:231:ASP:OD1	1:L:693:LYS:NZ	2.31	0.61
1:C:271:ASN:HA	1:M:471:ILE:HG22	1.82	0.61
1:F:271:ASN:HA	1:Q:471:ILE:HG22	1.82	0.61
1:K:471:ILE:HG22	1:O:271:ASN:HA	1.82	0.61
1:N:483:CYS:SG	1:N:577:TYR:HB2	2.41	0.61
1:N:693:LYS:NZ	1:O:231:ASP:OD1	2.30	0.61
1:P:602:LEU:N	1:P:605:MET:SD	2.71	0.61
1:Z:271:ASN:HA	1:w:471:ILE:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:271:ASN:HA	1:a:471:ILE:HG22	1.82	0.61
1:d:433:ARG:HA	1:d:435:MET:HE3	1.82	0.61
1:o:433:ARG:HA	1:o:435:MET:HE3	1.82	0.61
1:r:712:ASP:HB3	1:r:724:PRO:HG3	1.82	0.61
1:s:611:ASP:OD1	1:s:729:THR:HG22	1.99	0.61
1:u:483:CYS:SG	1:u:577:TYR:HB2	2.41	0.61
1:v:602:LEU:N	1:v:605:MET:SD	2.71	0.61
1:y:252:TYR:OH	1:y:373:VAL:O	2.15	0.61
1:y:611:ASP:OD1	1:y:729:THR:HG22	1.99	0.61
1:I:611:ASP:OD1	1:I:729:THR:HG22	1.99	0.61
1:L:483:CYS:SG	1:L:577:TYR:HB2	2.41	0.61
1:R:271:ASN:HA	1:U:471:ILE:HG22	1.82	0.61
1:R:483:CYS:SG	1:R:577:TYR:HB2	2.41	0.61
1:X:483:CYS:SG	1:X:577:TYR:HB2	2.41	0.61
1:0:483:CYS:SG	1:0:577:TYR:HB2	2.41	0.61
1:4:252:TYR:OH	1:4:373:VAL:O	2.15	0.61
1:4:483:CYS:SG	1:4:577:TYR:HB2	2.41	0.61
1:a:483:CYS:SG	1:a:577:TYR:HB2	2.41	0.61
1:c:483:CYS:SG	1:c:577:TYR:HB2	2.41	0.61
1:c:712:ASP:HB3	1:c:724:PRO:HG3	1.82	0.61
1:j:433:ARG:HA	1:j:435:MET:HE3	1.82	0.61
1:o:231:ASP:OD1	1:u:693:LYS:NZ	2.30	0.61
1:D:483:CYS:SG	1:D:577:TYR:HB2	2.41	0.61
1:F:712:ASP:HB3	1:F:724:PRO:HG3	1.82	0.61
1:M:433:ARG:HA	1:M:435:MET:HE3	1.82	0.61
1:M:483:CYS:SG	1:M:577:TYR:HB2	2.41	0.61
1:Y:611:ASP:OD1	1:Y:729:THR:HG22	2.00	0.61
1:2:271:ASN:HA	1:j:471:ILE:HG22	1.82	0.61
1:3:611:ASP:OD1	1:3:729:THR:HG22	1.99	0.61
1:a:252:TYR:OH	1:a:373:VAL:O	2.15	0.61
1:i:483:CYS:SG	1:i:577:TYR:HB2	2.41	0.61
1:q:483:CYS:SG	1:q:577:TYR:HB2	2.41	0.61
1:t:483:CYS:SG	1:t:577:TYR:HB2	2.41	0.61
1:B:483:CYS:SG	1:B:577:TYR:HB2	2.41	0.60
1:L:252:TYR:OH	1:L:373:VAL:O	2.15	0.60
1:Z:252:TYR:OH	1:Z:373:VAL:O	2.15	0.60
1:2:471:ILE:HG22	1:i:271:ASN:HA	1.82	0.60
1:a:433:ARG:HA	1:a:435:MET:HE3	1.82	0.60
1:b:483:CYS:SG	1:b:577:TYR:HB2	2.41	0.60
1:c:271:ASN:HA	1:e:471:ILE:HG22	1.82	0.60
1:d:471:ILE:HG22	1:e:271:ASN:HA	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:602:LEU:N	1:i:605:MET:SD	2.71	0.60
1:m:483:CYS:SG	1:m:577:TYR:HB2	2.41	0.60
1:m:712:ASP:HB3	1:m:724:PRO:HG3	1.82	0.60
1:q:712:ASP:HB3	1:q:724:PRO:HG3	1.82	0.60
1:E:271:ASN:HA	1:F:471:ILE:HG22	1.82	0.60
1:K:712:ASP:HB3	1:K:724:PRO:HG3	1.82	0.60
1:Z:712:ASP:HB3	1:Z:724:PRO:HG3	1.82	0.60
1:l:483:CYS:SG	1:l:577:TYR:HB2	2.41	0.60
1:n:471:ILE:HG22	1:o:271:ASN:HA	1.81	0.60
1:z:252:TYR:OH	1:z:373:VAL:O	2.15	0.60
1:D:712:ASP:HB3	1:D:724:PRO:HG3	1.82	0.60
1:F:252:TYR:OH	1:F:373:VAL:O	2.15	0.60
1:Z:483:CYS:SG	1:Z:577:TYR:HB2	2.41	0.60
1:g:483:CYS:SG	1:g:577:TYR:HB2	2.41	0.60
1:l:483:CYS:SG	1:l:577:TYR:HB2	2.41	0.60
1:l:712:ASP:HB3	1:l:724:PRO:HG3	1.82	0.60
1:s:483:CYS:SG	1:s:577:TYR:HB2	2.41	0.60
1:J:483:CYS:SG	1:J:577:TYR:HB2	2.41	0.60
1:K:271:ASN:HA	1:7:471:ILE:HG22	1.82	0.60
1:M:252:TYR:OH	1:M:373:VAL:O	2.15	0.60
1:P:433:ARG:HA	1:P:435:MET:HE3	1.82	0.60
1:R:712:ASP:HB3	1:R:724:PRO:HG3	1.82	0.60
1:T:271:ASN:HA	1:f:471:ILE:HG22	1.82	0.60
1:V:483:CYS:SG	1:V:577:TYR:HB2	2.41	0.60
1:Z:471:ILE:HG22	1:x:271:ASN:HA	1.82	0.60
1:l:602:LEU:N	1:l:605:MET:SD	2.71	0.60
1:3:471:ILE:HG22	1:f:271:ASN:HA	1.82	0.60
1:b:602:LEU:N	1:b:605:MET:SD	2.71	0.60
1:l:433:ARG:HA	1:l:435:MET:HE3	1.82	0.60
1:s:433:ARG:HA	1:s:435:MET:HE3	1.82	0.60
1:s:712:ASP:HB3	1:s:724:PRO:HG3	1.82	0.60
1:t:602:LEU:N	1:t:605:MET:SD	2.71	0.60
1:t:712:ASP:HB3	1:t:724:PRO:HG3	1.82	0.60
1:y:483:CYS:SG	1:y:577:TYR:HB2	2.41	0.60
1:z:712:ASP:HB3	1:z:724:PRO:HG3	1.82	0.60
1:C:483:CYS:SG	1:C:577:TYR:HB2	2.41	0.60
1:F:433:ARG:HA	1:F:435:MET:HE3	1.82	0.60
1:I:483:CYS:SG	1:I:577:TYR:HB2	2.41	0.60
1:J:693:LYS:NZ	1:K:231:ASP:OD1	2.31	0.60
1:S:471:ILE:HG22	1:U:271:ASN:HA	1.82	0.60
1:T:628:HIS:CD2	1:T:631:PRO:HG3	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:231:ASP:OD1	1:V:693:LYS:NZ	2.31	0.60
1:U:712:ASP:HB3	1:U:724:PRO:HG3	1.82	0.60
1:W:483:CYS:SG	1:W:577:TYR:HB2	2.41	0.60
1:X:628:HIS:CD2	1:X:631:PRO:HG3	2.37	0.60
1:Z:433:ARG:HA	1:Z:435:MET:HE3	1.82	0.60
1:3:483:CYS:SG	1:3:577:TYR:HB2	2.41	0.60
1:b:712:ASP:HB3	1:b:724:PRO:HG3	1.82	0.60
1:h:628:HIS:CD2	1:h:631:PRO:HG3	2.37	0.60
1:m:628:HIS:CD2	1:m:631:PRO:HG3	2.37	0.60
1:p:483:CYS:SG	1:p:577:TYR:HB2	2.41	0.60
1:q:628:HIS:CD2	1:q:631:PRO:HG3	2.37	0.60
1:v:433:ARG:HA	1:v:435:MET:HE3	1.82	0.60
1:w:483:CYS:SG	1:w:577:TYR:HB2	2.41	0.60
1:y:471:ILE:HG22	1:z:271:ASN:HA	1.82	0.60
1:z:471:ILE:HG22	1:6:271:ASN:HA	1.82	0.60
1:6:628:HIS:CD2	1:6:631:PRO:HG3	2.37	0.60
1:A:271:ASN:HA	1:I:471:ILE:HG22	1.82	0.60
1:B:628:HIS:CD2	1:B:631:PRO:HG3	2.37	0.60
1:D:602:LEU:N	1:D:605:MET:SD	2.71	0.60
1:F:483:CYS:SG	1:F:577:TYR:HB2	2.41	0.60
1:M:712:ASP:HB3	1:M:724:PRO:HG3	1.82	0.60
1:Q:483:CYS:SG	1:Q:577:TYR:HB2	2.41	0.60
1:1:712:ASP:HB3	1:1:724:PRO:HG3	1.82	0.60
1:3:628:HIS:CD2	1:3:631:PRO:HG3	2.37	0.60
1:f:252:TYR:OH	1:f:373:VAL:O	2.15	0.60
1:f:712:ASP:HB3	1:f:724:PRO:HG3	1.82	0.60
1:j:712:ASP:HB3	1:j:724:PRO:HG3	1.82	0.60
1:l:628:HIS:CD2	1:l:631:PRO:HG3	2.37	0.60
1:n:628:HIS:CD2	1:n:631:PRO:HG3	2.37	0.60
1:O:628:HIS:CD2	1:O:631:PRO:HG3	2.37	0.60
1:W:471:ILE:HG22	1:Y:271:ASN:HA	1.82	0.60
1:4:433:ARG:HA	1:4:435:MET:HE3	1.82	0.60
1:5:483:CYS:SG	1:5:577:TYR:HB2	2.41	0.60
1:a:712:ASP:HB3	1:a:724:PRO:HG3	1.82	0.60
1:c:252:TYR:OH	1:c:373:VAL:O	2.15	0.60
1:c:602:LEU:N	1:c:605:MET:SD	2.71	0.60
1:s:628:HIS:CD2	1:s:631:PRO:HG3	2.37	0.60
1:y:628:HIS:CD2	1:y:631:PRO:HG3	2.37	0.60
1:K:433:ARG:HA	1:K:435:MET:HE3	1.82	0.60
1:L:433:ARG:HA	1:L:435:MET:HE3	1.82	0.60
1:P:712:ASP:HB3	1:P:724:PRO:HG3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:483:CYS:SG	1:S:577:TYR:HB2	2.41	0.60
1:S:628:HIS:CD2	1:S:631:PRO:HG3	2.37	0.60
1:U:483:CYS:SG	1:U:577:TYR:HB2	2.41	0.60
1:O:712:ASP:HB3	1:O:724:PRO:HG3	1.82	0.60
1:2:483:CYS:SG	1:2:577:TYR:HB2	2.41	0.60
1:d:712:ASP:HB3	1:d:724:PRO:HG3	1.82	0.60
1:e:483:CYS:SG	1:e:577:TYR:HB2	2.41	0.60
1:i:252:TYR:OH	1:i:373:VAL:O	2.15	0.60
1:i:628:HIS:CD2	1:i:631:PRO:HG3	2.37	0.60
1:o:628:HIS:CD2	1:o:631:PRO:HG3	2.37	0.60
1:r:628:HIS:CD2	1:r:631:PRO:HG3	2.37	0.60
1:v:712:ASP:HB3	1:v:724:PRO:HG3	1.82	0.60
1:w:602:LEU:N	1:w:605:MET:SD	2.71	0.60
1:D:238:ARG:NH1	1:D:684:GLU:OE2	2.35	0.60
1:D:271:ASN:HA	1:P:471:ILE:HG22	1.82	0.60
1:D:628:HIS:CD2	1:D:631:PRO:HG3	2.37	0.60
1:F:628:HIS:CD2	1:F:631:PRO:HG3	2.37	0.60
1:I:628:HIS:CD2	1:I:631:PRO:HG3	2.37	0.60
1:W:628:HIS:CD2	1:W:631:PRO:HG3	2.37	0.60
1:Y:252:TYR:OH	1:Y:373:VAL:O	2.15	0.60
1:Z:628:HIS:CD2	1:Z:631:PRO:HG3	2.37	0.60
1:4:712:ASP:HB3	1:4:724:PRO:HG3	1.82	0.60
1:g:602:LEU:N	1:g:605:MET:SD	2.71	0.60
1:g:712:ASP:HB3	1:g:724:PRO:HG3	1.82	0.60
1:k:628:HIS:CD2	1:k:631:PRO:HG3	2.37	0.60
1:p:602:LEU:N	1:p:605:MET:SD	2.71	0.60
1:p:712:ASP:HB3	1:p:724:PRO:HG3	1.82	0.60
1:t:238:ARG:NH1	1:t:684:GLU:OE2	2.35	0.60
1:t:271:ASN:HA	1:v:471:ILE:HG22	1.82	0.60
1:7:483:CYS:SG	1:7:577:TYR:HB2	2.41	0.60
1:7:628:HIS:CD2	1:7:631:PRO:HG3	2.37	0.60
1:G:433:ARG:HA	1:G:435:MET:HE3	1.82	0.60
1:H:433:ARG:HA	1:H:435:MET:HE3	1.82	0.60
1:K:483:CYS:SG	1:K:577:TYR:HB2	2.41	0.60
1:L:712:ASP:HB3	1:L:724:PRO:HG3	1.82	0.60
1:U:433:ARG:HA	1:U:435:MET:HE3	1.82	0.60
1:c:628:HIS:CD2	1:c:631:PRO:HG3	2.37	0.60
1:o:602:LEU:N	1:o:605:MET:SD	2.71	0.60
1:t:628:HIS:CD2	1:t:631:PRO:HG3	2.37	0.60
1:H:252:TYR:OH	1:H:373:VAL:O	2.15	0.59
1:O:483:CYS:SG	1:O:577:TYR:HB2	2.41	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:628:HIS:CD2	1:V:631:PRO:HG3	2.37	0.59
1:Y:238:ARG:NH1	1:Y:684:GLU:OE2	2.35	0.59
1:O:628:HIS:CD2	1:O:631:PRO:HG3	2.37	0.59
1:r:238:ARG:NH1	1:r:684:GLU:OE2	2.35	0.59
1:A:238:ARG:NH1	1:A:684:GLU:OE2	2.35	0.59
1:O:602:LEU:N	1:O:605:MET:SD	2.71	0.59
1:R:628:HIS:CD2	1:R:631:PRO:HG3	2.37	0.59
1:1:628:HIS:CD2	1:1:631:PRO:HG3	2.37	0.59
1:2:252:TYR:OH	1:2:373:VAL:O	2.15	0.59
1:j:628:HIS:CD2	1:j:631:PRO:HG3	2.37	0.59
1:k:238:ARG:NH1	1:k:684:GLU:OE2	2.35	0.59
1:n:238:ARG:NH1	1:n:684:GLU:OE2	2.35	0.59
1:y:433:ARG:HA	1:y:435:MET:HE3	1.82	0.59
1:G:252:TYR:OH	1:G:373:VAL:O	2.15	0.59
1:J:602:LEU:N	1:J:605:MET:SD	2.71	0.59
1:J:628:HIS:CD2	1:J:631:PRO:HG3	2.37	0.59
1:M:628:HIS:CD2	1:M:631:PRO:HG3	2.37	0.59
1:V:602:LEU:N	1:V:605:MET:SD	2.71	0.59
1:2:628:HIS:CD2	1:2:631:PRO:HG3	2.37	0.59
1:3:238:ARG:NH1	1:3:684:GLU:OE2	2.35	0.59
1:b:628:HIS:CD2	1:b:631:PRO:HG3	2.37	0.59
1:d:628:HIS:CD2	1:d:631:PRO:HG3	2.37	0.59
1:e:628:HIS:CD2	1:e:631:PRO:HG3	2.37	0.59
1:h:238:ARG:NH1	1:h:684:GLU:OE2	2.35	0.59
1:o:483:CYS:SG	1:o:577:TYR:HB2	2.41	0.59
1:q:602:LEU:N	1:q:605:MET:SD	2.71	0.59
1:v:628:HIS:CD2	1:v:631:PRO:HG3	2.37	0.59
1:w:628:HIS:CD2	1:w:631:PRO:HG3	2.37	0.59
1:E:238:ARG:NH1	1:E:684:GLU:OE2	2.35	0.59
1:G:238:ARG:NH1	1:G:684:GLU:OE2	2.35	0.59
1:G:586:ARG:NE	1:G:588:ASN:HB2	2.18	0.59
1:H:586:ARG:NE	1:H:588:ASN:HB2	2.18	0.59
1:K:628:HIS:CD2	1:K:631:PRO:HG3	2.37	0.59
1:N:628:HIS:CD2	1:N:631:PRO:HG3	2.37	0.59
1:P:628:HIS:CD2	1:P:631:PRO:HG3	2.37	0.59
1:Q:628:HIS:CD2	1:Q:631:PRO:HG3	2.37	0.59
1:3:433:ARG:HA	1:3:435:MET:HE3	1.82	0.59
1:l:238:ARG:NH1	1:l:684:GLU:OE2	2.35	0.59
1:m:602:LEU:N	1:m:605:MET:SD	2.71	0.59
1:y:238:ARG:NH1	1:y:684:GLU:OE2	2.35	0.59
1:C:586:ARG:NE	1:C:588:ASN:HB2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:586:ARG:NE	1:F:588:ASN:HB2	2.18	0.59
1:Z:586:ARG:NE	1:Z:588:ASN:HB2	2.18	0.59
1:4:628:HIS:CD2	1:4:631:PRO:HG3	2.37	0.59
1:a:586:ARG:NE	1:a:588:ASN:HB2	2.18	0.59
1:a:628:HIS:CD2	1:a:631:PRO:HG3	2.37	0.59
1:b:252:TYR:OH	1:b:373:VAL:O	2.15	0.59
1:f:628:HIS:CD2	1:f:631:PRO:HG3	2.37	0.59
1:g:586:ARG:NE	1:g:588:ASN:HB2	2.18	0.59
1:m:586:ARG:NE	1:m:588:ASN:HB2	2.18	0.59
1:p:586:ARG:NE	1:p:588:ASN:HB2	2.18	0.59
1:q:586:ARG:NE	1:q:588:ASN:HB2	2.18	0.59
1:u:628:HIS:CD2	1:u:631:PRO:HG3	2.37	0.59
1:x:238:ARG:NH1	1:x:684:GLU:OE2	2.35	0.59
1:A:602:LEU:N	1:A:605:MET:SD	2.71	0.59
1:C:628:HIS:CD2	1:C:631:PRO:HG3	2.37	0.59
1:E:586:ARG:NE	1:E:588:ASN:HB2	2.18	0.59
1:M:586:ARG:NE	1:M:588:ASN:HB2	2.18	0.59
1:T:586:ARG:NE	1:T:588:ASN:HB2	2.18	0.59
1:U:628:HIS:CD2	1:U:631:PRO:HG3	2.37	0.59
1:V:238:ARG:NH1	1:V:684:GLU:OE2	2.35	0.59
1:1:252:TYR:OH	1:1:373:VAL:O	2.15	0.59
1:2:586:ARG:NE	1:2:588:ASN:HB2	2.18	0.59
1:5:586:ARG:NE	1:5:588:ASN:HB2	2.18	0.59
1:e:252:TYR:OH	1:e:373:VAL:O	2.15	0.59
1:s:238:ARG:NH1	1:s:684:GLU:OE2	2.35	0.59
1:x:586:ARG:NE	1:x:588:ASN:HB2	2.18	0.59
1:z:628:HIS:CD2	1:z:631:PRO:HG3	2.37	0.59
1:6:586:ARG:NE	1:6:588:ASN:HB2	2.18	0.59
1:G:628:HIS:CD2	1:G:631:PRO:HG3	2.37	0.59
1:J:238:ARG:NH1	1:J:684:GLU:OE2	2.35	0.59
1:L:628:HIS:CD2	1:L:631:PRO:HG3	2.37	0.59
1:4:238:ARG:NH1	1:4:684:GLU:OE2	2.35	0.59
1:5:628:HIS:CD2	1:5:631:PRO:HG3	2.37	0.59
1:e:586:ARG:NE	1:e:588:ASN:HB2	2.18	0.59
1:0:586:ARG:NE	1:0:588:ASN:HB2	2.18	0.59
1:A:586:ARG:NE	1:A:588:ASN:HB2	2.18	0.59
1:D:586:ARG:NE	1:D:588:ASN:HB2	2.18	0.59
1:E:628:HIS:CD2	1:E:631:PRO:HG3	2.37	0.59
1:H:628:HIS:CD2	1:H:631:PRO:HG3	2.37	0.59
1:L:238:ARG:NH1	1:L:684:GLU:OE2	2.35	0.59
1:R:586:ARG:NE	1:R:588:ASN:HB2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:586:ARG:NE	1:3:588:ASN:HB2	2.18	0.59
1:j:586:ARG:NE	1:j:588:ASN:HB2	2.18	0.59
1:n:586:ARG:NE	1:n:588:ASN:HB2	2.18	0.59
1:t:586:ARG:NE	1:t:588:ASN:HB2	2.18	0.59
1:A:628:HIS:CD2	1:A:631:PRO:HG3	2.37	0.59
1:I:238:ARG:NH1	1:I:684:GLU:OE2	2.35	0.59
1:S:238:ARG:NH1	1:S:684:GLU:OE2	2.35	0.59
1:W:238:ARG:NH1	1:W:684:GLU:OE2	2.35	0.59
1:Y:586:ARG:NE	1:Y:588:ASN:HB2	2.18	0.59
1:h:586:ARG:NE	1:h:588:ASN:HB2	2.18	0.59
1:k:586:ARG:NE	1:k:588:ASN:HB2	2.18	0.59
1:p:628:HIS:CD2	1:p:631:PRO:HG3	2.37	0.59
1:x:628:HIS:CD2	1:x:631:PRO:HG3	2.37	0.59
1:y:586:ARG:NE	1:y:588:ASN:HB2	2.18	0.59
1:U:586:ARG:NE	1:U:588:ASN:HB2	2.18	0.58
1:Y:628:HIS:CD2	1:Y:631:PRO:HG3	2.37	0.58
1:d:586:ARG:NE	1:d:588:ASN:HB2	2.18	0.58
1:f:586:ARG:NE	1:f:588:ASN:HB2	2.18	0.58
1:g:628:HIS:CD2	1:g:631:PRO:HG3	2.37	0.58
1:z:586:ARG:NE	1:z:588:ASN:HB2	2.18	0.58
1:B:586:ARG:NE	1:B:588:ASN:HB2	2.18	0.58
1:J:586:ARG:NE	1:J:588:ASN:HB2	2.18	0.58
1:K:586:ARG:NE	1:K:588:ASN:HB2	2.18	0.58
1:N:602:LEU:N	1:N:605:MET:SD	2.71	0.58
1:O:586:ARG:NE	1:O:588:ASN:HB2	2.18	0.58
1:W:586:ARG:NE	1:W:588:ASN:HB2	2.18	0.58
1:f:602:LEU:N	1:f:605:MET:SD	2.71	0.58
1:j:238:ARG:NH1	1:j:684:GLU:OE2	2.35	0.58
1:r:586:ARG:NE	1:r:588:ASN:HB2	2.18	0.58
1:I:586:ARG:NE	1:I:588:ASN:HB2	2.18	0.58
1:V:586:ARG:NE	1:V:588:ASN:HB2	2.18	0.58
1:X:586:ARG:NE	1:X:588:ASN:HB2	2.18	0.58
1:d:238:ARG:NH1	1:d:684:GLU:OE2	2.35	0.58
1:o:586:ARG:NE	1:o:588:ASN:HB2	2.18	0.58
1:z:602:LEU:N	1:z:605:MET:SD	2.71	0.58
1:b:238:ARG:NH1	1:b:684:GLU:OE2	2.35	0.58
1:l:586:ARG:NE	1:l:588:ASN:HB2	2.18	0.58
1:u:586:ARG:NE	1:u:588:ASN:HB2	2.18	0.58
1:u:602:LEU:N	1:u:605:MET:SD	2.71	0.58
1:1:238:ARG:NH1	1:1:684:GLU:OE2	2.35	0.58
1:c:586:ARG:NE	1:c:588:ASN:HB2	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:586:ARG:NE	1:i:588:ASN:HB2	2.18	0.58
1:p:238:ARG:NH1	1:p:684:GLU:OE2	2.35	0.58
1:N:586:ARG:NE	1:N:588:ASN:HB2	2.18	0.58
1:Q:586:ARG:NE	1:Q:588:ASN:HB2	2.18	0.58
1:S:586:ARG:NE	1:S:588:ASN:HB2	2.18	0.58
1:4:586:ARG:NE	1:4:588:ASN:HB2	2.18	0.58
1:5:238:ARG:NH1	1:5:684:GLU:OE2	2.35	0.58
1:b:586:ARG:NE	1:b:588:ASN:HB2	2.18	0.58
1:s:586:ARG:NE	1:s:588:ASN:HB2	2.18	0.58
1:w:238:ARG:NH1	1:w:684:GLU:OE2	2.35	0.58
1:C:238:ARG:NH1	1:C:684:GLU:OE2	2.35	0.58
1:c:238:ARG:NH1	1:c:684:GLU:OE2	2.35	0.58
1:7:586:ARG:NE	1:7:588:ASN:HB2	2.18	0.58
1:F:238:ARG:NH1	1:F:684:GLU:OE2	2.35	0.58
1:L:586:ARG:NE	1:L:588:ASN:HB2	2.18	0.58
1:Q:238:ARG:NH1	1:Q:684:GLU:OE2	2.35	0.58
1:Z:238:ARG:NH1	1:Z:684:GLU:OE2	2.35	0.58
1:1:586:ARG:NE	1:1:588:ASN:HB2	2.18	0.58
1:f:238:ARG:NH1	1:f:684:GLU:OE2	2.35	0.58
1:g:238:ARG:NH1	1:g:684:GLU:OE2	2.35	0.58
1:i:238:ARG:NH1	1:i:684:GLU:OE2	2.35	0.58
1:B:602:LEU:N	1:B:605:MET:SD	2.71	0.58
1:L:602:LEU:N	1:L:605:MET:SD	2.71	0.58
1:Q:602:LEU:N	1:Q:605:MET:SD	2.71	0.58
1:4:602:LEU:N	1:4:605:MET:SD	2.71	0.58
1:w:586:ARG:NE	1:w:588:ASN:HB2	2.18	0.58
1:z:238:ARG:NH1	1:z:684:GLU:OE2	2.35	0.58
1:F:458:GLN:HE21	1:F:460:ARG:HH22	1.52	0.58
1:Z:458:GLN:HE21	1:Z:460:ARG:HH22	1.52	0.58
1:n:602:LEU:N	1:n:605:MET:SD	2.71	0.58
1:N:458:GLN:HE21	1:N:460:ARG:HH22	1.52	0.57
1:P:458:GLN:HE21	1:P:460:ARG:HH22	1.52	0.57
1:a:238:ARG:NH1	1:a:684:GLU:OE2	2.35	0.57
1:g:458:GLN:HE21	1:g:460:ARG:HH22	1.52	0.57
1:v:458:GLN:HE21	1:v:460:ARG:HH22	1.52	0.57
1:v:586:ARG:NE	1:v:588:ASN:HB2	2.18	0.57
1:P:586:ARG:NE	1:P:588:ASN:HB2	2.18	0.57
1:2:602:LEU:N	1:2:605:MET:SD	2.71	0.57
1:e:602:LEU:N	1:e:605:MET:SD	2.71	0.57
1:p:458:GLN:HE21	1:p:460:ARG:HH22	1.52	0.57
1:u:458:GLN:HE21	1:u:460:ARG:HH22	1.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:602:LEU:N	1:F:605:MET:SD	2.71	0.57
1:K:602:LEU:N	1:K:605:MET:SD	2.71	0.57
1:M:238:ARG:NH1	1:M:684:GLU:OE2	2.35	0.57
1:Z:602:LEU:N	1:Z:605:MET:SD	2.71	0.57
1:3:287:ARG:CZ	1:3:289:HIS:HE1	2.18	0.57
1:t:287:ARG:CZ	1:t:289:HIS:HE1	2.18	0.57
1:C:287:ARG:CZ	1:C:289:HIS:HE1	2.18	0.57
1:D:287:ARG:CZ	1:D:289:HIS:HE1	2.18	0.57
1:Q:287:ARG:CZ	1:Q:289:HIS:HE1	2.18	0.57
1:5:287:ARG:CZ	1:5:289:HIS:HE1	2.18	0.57
1:f:458:GLN:HE21	1:f:460:ARG:HH22	1.52	0.57
1:w:287:ARG:CZ	1:w:289:HIS:HE1	2.18	0.57
1:y:287:ARG:CZ	1:y:289:HIS:HE1	2.18	0.57
1:7:238:ARG:NH1	1:7:684:GLU:OE2	2.35	0.57
1:S:602:LEU:N	1:S:605:MET:SD	2.71	0.57
1:z:458:GLN:HE21	1:z:460:ARG:HH22	1.52	0.57
1:I:298:GLN:HA	1:I:301:ILE:HG12	1.87	0.57
1:M:298:GLN:HA	1:M:301:ILE:HG12	1.87	0.57
1:P:287:ARG:CZ	1:P:289:HIS:HE1	2.18	0.57
1:R:238:ARG:NH1	1:R:684:GLU:OE2	2.35	0.57
1:S:287:ARG:CZ	1:S:289:HIS:HE1	2.18	0.57
1:X:602:LEU:N	1:X:605:MET:SD	2.71	0.57
1:2:436:ASN:HB2	1:i:354:VAL:CG1	2.35	0.57
1:a:458:GLN:HE21	1:a:460:ARG:HH22	1.52	0.57
1:e:298:GLN:HA	1:e:301:ILE:HG12	1.87	0.57
1:i:298:GLN:HA	1:i:301:ILE:HG12	1.87	0.57
1:m:458:GLN:HE21	1:m:460:ARG:HH22	1.52	0.57
1:r:287:ARG:CZ	1:r:289:HIS:HE1	2.18	0.57
1:x:287:ARG:CZ	1:x:289:HIS:HE1	2.18	0.57
1:7:287:ARG:CZ	1:7:289:HIS:HE1	2.18	0.57
1:A:287:ARG:CZ	1:A:289:HIS:HE1	2.18	0.57
1:E:287:ARG:CZ	1:E:289:HIS:HE1	2.18	0.57
1:E:602:LEU:N	1:E:605:MET:SD	2.71	0.57
1:M:458:GLN:HE21	1:M:460:ARG:HH22	1.52	0.57
1:N:287:ARG:CZ	1:N:289:HIS:HE1	2.18	0.57
1:W:298:GLN:HA	1:W:301:ILE:HG12	1.87	0.57
1:Y:287:ARG:CZ	1:Y:289:HIS:HE1	2.18	0.57
1:0:238:ARG:NH1	1:0:684:GLU:OE2	2.35	0.57
1:2:298:GLN:HA	1:2:301:ILE:HG12	1.87	0.57
1:5:458:GLN:HE21	1:5:460:ARG:HH22	1.52	0.57
1:a:298:GLN:HA	1:a:301:ILE:HG12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:298:GLN:HA	1:c:301:ILE:HG12	1.87	0.57
1:c:354:VAL:CG1	1:e:436:ASN:HB2	2.35	0.57
1:f:287:ARG:CZ	1:f:289:HIS:HE1	2.18	0.57
1:g:287:ARG:CZ	1:g:289:HIS:HE1	2.18	0.57
1:h:602:LEU:N	1:h:605:MET:SD	2.71	0.57
1:k:287:ARG:CZ	1:k:289:HIS:HE1	2.18	0.57
1:o:287:ARG:CZ	1:o:289:HIS:HE1	2.18	0.57
1:u:287:ARG:CZ	1:u:289:HIS:HE1	2.18	0.57
1:x:602:LEU:N	1:x:605:MET:SD	2.71	0.57
1:C:458:GLN:HE21	1:C:460:ARG:HH22	1.52	0.57
1:K:287:ARG:CZ	1:K:289:HIS:HE1	2.18	0.57
1:K:458:GLN:HE21	1:K:460:ARG:HH22	1.52	0.57
1:L:287:ARG:CZ	1:L:289:HIS:HE1	2.18	0.57
1:O:287:ARG:CZ	1:O:289:HIS:HE1	2.18	0.57
1:P:298:GLN:HA	1:P:301:ILE:HG12	1.87	0.57
1:g:298:GLN:HA	1:g:301:ILE:HG12	1.87	0.57
1:p:298:GLN:HA	1:p:301:ILE:HG12	1.87	0.57
1:q:287:ARG:CZ	1:q:289:HIS:HE1	2.18	0.57
1:q:458:GLN:HE21	1:q:460:ARG:HH22	1.53	0.57
1:t:458:GLN:HE21	1:t:460:ARG:HH22	1.52	0.57
1:v:287:ARG:CZ	1:v:289:HIS:HE1	2.18	0.57
1:v:298:GLN:HA	1:v:301:ILE:HG12	1.87	0.57
1:z:287:ARG:CZ	1:z:289:HIS:HE1	2.18	0.57
1:6:602:LEU:N	1:6:605:MET:SD	2.71	0.57
1:B:458:GLN:HE21	1:B:460:ARG:HH22	1.52	0.57
1:G:287:ARG:CZ	1:G:289:HIS:HE1	2.18	0.57
1:H:287:ARG:CZ	1:H:289:HIS:HE1	2.18	0.57
1:I:458:GLN:HE21	1:I:460:ARG:HH22	1.52	0.57
1:N:238:ARG:NH1	1:N:684:GLU:OE2	2.35	0.57
1:N:436:ASN:HB2	1:P:354:VAL:CG1	2.35	0.57
1:S:436:ASN:HB2	1:U:354:VAL:CG1	2.35	0.57
1:U:287:ARG:CZ	1:U:289:HIS:HE1	2.18	0.57
1:U:458:GLN:HE21	1:U:460:ARG:HH22	1.52	0.57
1:U:602:LEU:N	1:U:605:MET:SD	2.71	0.57
1:W:436:ASN:HB2	1:Y:354:VAL:CG1	2.35	0.57
1:W:458:GLN:HE21	1:W:460:ARG:HH22	1.52	0.57
1:X:458:GLN:HE21	1:X:460:ARG:HH22	1.52	0.57
1:Z:586:ARG:HH22	1:Z:589:ARG:HE	1.53	0.57
1:0:298:GLN:HA	1:0:301:ILE:HG12	1.87	0.57
1:1:287:ARG:CZ	1:1:289:HIS:HE1	2.18	0.57
1:1:458:GLN:HE21	1:1:460:ARG:HH22	1.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:287:ARG:CZ	1:b:289:HIS:HE1	2.18	0.57
1:o:458:GLN:HE21	1:o:460:ARG:HH22	1.52	0.57
1:p:287:ARG:CZ	1:p:289:HIS:HE1	2.18	0.57
1:p:383:ASN:HD22	1:u:707:LYS:HD3	1.70	0.57
1:x:458:GLN:HE21	1:x:460:ARG:HH22	1.52	0.57
1:A:354:VAL:CG1	1:I:436:ASN:HB2	2.35	0.57
1:B:383:ASN:HD22	1:C:707:LYS:HD3	1.70	0.57
1:D:458:GLN:HE21	1:D:460:ARG:HH22	1.52	0.57
1:F:287:ARG:CZ	1:F:289:HIS:HE1	2.18	0.57
1:F:354:VAL:CG1	1:Q:436:ASN:HB2	2.35	0.57
1:F:586:ARG:HH22	1:F:589:ARG:HE	1.53	0.57
1:M:586:ARG:HH22	1:M:589:ARG:HE	1.53	0.57
1:O:458:GLN:HE21	1:O:460:ARG:HH22	1.52	0.57
1:R:298:GLN:HA	1:R:301:ILE:HG12	1.87	0.57
1:T:238:ARG:NH1	1:T:684:GLU:OE2	2.35	0.57
1:X:298:GLN:HA	1:X:301:ILE:HG12	1.87	0.57
1:Z:287:ARG:CZ	1:Z:289:HIS:HE1	2.18	0.57
1:Z:354:VAL:CG1	1:w:436:ASN:HB2	2.35	0.57
1:4:287:ARG:CZ	1:4:289:HIS:HE1	2.18	0.57
1:b:586:ARG:HH22	1:b:589:ARG:HE	1.53	0.57
1:g:586:ARG:HH22	1:g:589:ARG:HE	1.53	0.57
1:k:298:GLN:HA	1:k:301:ILE:HG12	1.87	0.57
1:p:586:ARG:HH22	1:p:589:ARG:HE	1.53	0.57
1:q:354:VAL:CG1	1:s:436:ASN:HB2	2.35	0.57
1:u:238:ARG:NH1	1:u:684:GLU:OE2	2.35	0.57
1:u:436:ASN:HB2	1:v:354:VAL:CG1	2.35	0.57
1:z:298:GLN:HA	1:z:301:ILE:HG12	1.87	0.57
1:B:298:GLN:HA	1:B:301:ILE:HG12	1.87	0.56
1:E:282:TYR:HB3	1:E:648:LEU:HD23	1.88	0.56
1:E:458:GLN:HE21	1:E:460:ARG:HH22	1.52	0.56
1:K:298:GLN:HA	1:K:301:ILE:HG12	1.87	0.56
1:R:282:TYR:HB3	1:R:648:LEU:HD23	1.87	0.56
1:T:287:ARG:CZ	1:T:289:HIS:HE1	2.18	0.56
1:X:383:ASN:HD22	1:5:707:LYS:HD3	1.70	0.56
1:a:586:ARG:HH22	1:a:589:ARG:HE	1.53	0.56
1:b:458:GLN:HE21	1:b:460:ARG:HH22	1.52	0.56
1:f:298:GLN:HA	1:f:301:ILE:HG12	1.87	0.56
1:l:436:ASN:HB2	1:m:354:VAL:CG1	2.35	0.56
1:m:287:ARG:CZ	1:m:289:HIS:HE1	2.18	0.56
1:q:298:GLN:HA	1:q:301:ILE:HG12	1.87	0.56
1:r:298:GLN:HA	1:r:301:ILE:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:586:ARG:HH22	1:r:589:ARG:HE	1.53	0.56
1:u:298:GLN:HA	1:u:301:ILE:HG12	1.87	0.56
1:w:586:ARG:HH22	1:w:589:ARG:HE	1.53	0.56
1:x:282:TYR:HB3	1:x:648:LEU:HD23	1.88	0.56
1:6:287:ARG:CZ	1:6:289:HIS:HE1	2.18	0.56
1:G:586:ARG:HH22	1:G:589:ARG:HE	1.53	0.56
1:K:707:LYS:HD3	1:L:383:ASN:HD22	1.70	0.56
1:L:586:ARG:HH22	1:L:589:ARG:HE	1.53	0.56
1:M:282:TYR:HB3	1:M:648:LEU:HD23	1.87	0.56
1:N:298:GLN:HA	1:N:301:ILE:HG12	1.87	0.56
1:O:586:ARG:HH22	1:O:589:ARG:HE	1.53	0.56
1:Q:458:GLN:HE21	1:Q:460:ARG:HH22	1.53	0.56
1:Q:586:ARG:HH22	1:Q:589:ARG:HE	1.53	0.56
1:U:298:GLN:HA	1:U:301:ILE:HG12	1.87	0.56
1:U:707:LYS:HD3	1:4:383:ASN:HD22	1.70	0.56
1:W:602:LEU:N	1:W:605:MET:SD	2.71	0.56
1:Y:282:TYR:HB3	1:Y:648:LEU:HD23	1.87	0.56
1:0:282:TYR:HB3	1:0:648:LEU:HD23	1.87	0.56
1:1:586:ARG:HH22	1:1:589:ARG:HE	1.53	0.56
1:2:383:ASN:HD22	1:m:707:LYS:HD3	1.70	0.56
1:a:282:TYR:HB3	1:a:648:LEU:HD23	1.87	0.56
1:c:287:ARG:CZ	1:c:289:HIS:HE1	2.18	0.56
1:c:586:ARG:HH22	1:c:589:ARG:HE	1.53	0.56
1:e:383:ASN:HD22	1:q:707:LYS:HD3	1.70	0.56
1:i:586:ARG:HH22	1:i:589:ARG:HE	1.53	0.56
1:j:287:ARG:CZ	1:j:289:HIS:HE1	2.18	0.56
1:j:458:GLN:HE21	1:j:460:ARG:HH22	1.52	0.56
1:k:586:ARG:HH22	1:k:589:ARG:HE	1.53	0.56
1:l:586:ARG:HH22	1:l:589:ARG:HE	1.53	0.56
1:s:586:ARG:HH22	1:s:589:ARG:HE	1.53	0.56
1:w:458:GLN:HE21	1:w:460:ARG:HH22	1.53	0.56
1:7:282:TYR:HB3	1:7:648:LEU:HD23	1.87	0.56
1:7:602:LEU:N	1:7:605:MET:SD	2.71	0.56
1:A:282:TYR:HB3	1:A:648:LEU:HD23	1.87	0.56
1:B:287:ARG:CZ	1:B:289:HIS:HE1	2.18	0.56
1:B:436:ASN:HB2	1:J:354:VAL:CG1	2.35	0.56
1:D:436:ASN:HB2	1:N:354:VAL:CG1	2.35	0.56
1:F:298:GLN:HA	1:F:301:ILE:HG12	1.87	0.56
1:F:383:ASN:HD22	1:R:707:LYS:HD3	1.70	0.56
1:G:707:LYS:HD3	1:W:383:ASN:HD22	1.71	0.56
1:H:586:ARG:HH22	1:H:589:ARG:HE	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:707:LYS:HD3	1:I:383:ASN:HD22	1.71	0.56
1:I:287:ARG:CZ	1:I:289:HIS:HE1	2.18	0.56
1:K:354:VAL:CG1	1:7:436:ASN:HB2	2.35	0.56
1:M:287:ARG:CZ	1:M:289:HIS:HE1	2.18	0.56
1:N:707:LYS:HD3	1:g:383:ASN:HD22	1.70	0.56
1:P:707:LYS:HD3	1:Q:383:ASN:HD22	1.70	0.56
1:S:282:TYR:HB3	1:S:648:LEU:HD23	1.88	0.56
1:S:298:GLN:HA	1:S:301:ILE:HG12	1.87	0.56
1:S:586:ARG:HH22	1:S:589:ARG:HE	1.53	0.56
1:V:354:VAL:CG1	1:X:436:ASN:HB2	2.35	0.56
1:X:238:ARG:NH1	1:X:684:GLU:OE2	2.35	0.56
1:X:287:ARG:CZ	1:X:289:HIS:HE1	2.18	0.56
1:Z:298:GLN:HA	1:Z:301:ILE:HG12	1.87	0.56
1:Z:383:ASN:HD22	1:0:707:LYS:HD3	1.70	0.56
1:2:287:ARG:CZ	1:2:289:HIS:HE1	2.18	0.56
1:2:354:VAL:CG1	1:j:436:ASN:HB2	2.35	0.56
1:4:586:ARG:HH22	1:4:589:ARG:HE	1.53	0.56
1:5:436:ASN:HB2	1:b:354:VAL:CG1	2.35	0.56
1:a:287:ARG:CZ	1:a:289:HIS:HE1	2.18	0.56
1:d:287:ARG:CZ	1:d:289:HIS:HE1	2.18	0.56
1:d:458:GLN:HE21	1:d:460:ARG:HH22	1.53	0.56
1:g:282:TYR:HB3	1:g:648:LEU:HD23	1.88	0.56
1:i:287:ARG:CZ	1:i:289:HIS:HE1	2.18	0.56
1:m:298:GLN:HA	1:m:301:ILE:HG12	1.87	0.56
1:p:282:TYR:HB3	1:p:648:LEU:HD23	1.88	0.56
1:t:436:ASN:HB2	1:u:354:VAL:CG1	2.35	0.56
1:v:238:ARG:NH1	1:v:684:GLU:OE2	2.35	0.56
1:v:707:LYS:HD3	1:w:383:ASN:HD22	1.70	0.56
1:6:238:ARG:NH1	1:6:684:GLU:OE2	2.35	0.56
1:7:298:GLN:HA	1:7:301:ILE:HG12	1.87	0.56
1:7:458:GLN:HE21	1:7:460:ARG:HH22	1.52	0.56
1:7:586:ARG:HH22	1:7:589:ARG:HE	1.53	0.56
1:B:282:TYR:HB3	1:B:648:LEU:HD23	1.88	0.56
1:C:354:VAL:CG1	1:M:436:ASN:HB2	2.35	0.56
1:C:436:ASN:HB2	1:1:354:VAL:CG1	2.35	0.56
1:D:383:ASN:HD22	1:E:707:LYS:HD3	1.71	0.56
1:E:436:ASN:HB2	1:Q:354:VAL:CG1	2.35	0.56
1:R:436:ASN:HB2	1:S:354:VAL:CG1	2.35	0.56
1:S:458:GLN:HE21	1:S:460:ARG:HH22	1.53	0.56
1:T:602:LEU:N	1:T:605:MET:SD	2.71	0.56
1:V:436:ASN:HB2	1:4:354:VAL:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:282:TYR:HB3	1:X:648:LEU:HD23	1.88	0.56
1:Y:586:ARG:HH22	1:Y:589:ARG:HE	1.53	0.56
1:5:298:GLN:HA	1:5:301:ILE:HG12	1.87	0.56
1:d:436:ASN:HB2	1:e:354:VAL:CG1	2.35	0.56
1:e:287:ARG:CZ	1:e:289:HIS:HE1	2.18	0.56
1:h:458:GLN:HE21	1:h:460:ARG:HH22	1.52	0.56
1:n:354:VAL:CG1	1:p:436:ASN:HB2	2.35	0.56
1:n:458:GLN:HE21	1:n:460:ARG:HH22	1.52	0.56
1:n:586:ARG:HH22	1:n:589:ARG:HE	1.53	0.56
1:o:586:ARG:HH22	1:o:589:ARG:HE	1.53	0.56
1:q:436:ASN:HB2	1:r:354:VAL:CG1	2.35	0.56
1:w:298:GLN:HA	1:w:301:ILE:HG12	1.87	0.56
1:w:354:VAL:CG1	1:x:436:ASN:HB2	2.35	0.56
1:G:602:LEU:N	1:G:605:MET:SD	2.71	0.56
1:H:602:LEU:N	1:H:605:MET:SD	2.71	0.56
1:P:586:ARG:HH22	1:P:589:ARG:HE	1.53	0.56
1:Q:298:GLN:HA	1:Q:301:ILE:HG12	1.87	0.56
1:T:298:GLN:HA	1:T:301:ILE:HG12	1.87	0.56
1:T:436:ASN:HB2	1:3:354:VAL:CG1	2.35	0.56
1:W:287:ARG:CZ	1:W:289:HIS:HE1	2.18	0.56
1:5:354:VAL:CG1	1:a:436:ASN:HB2	2.35	0.56
1:c:282:TYR:HB3	1:c:648:LEU:HD23	1.87	0.56
1:h:287:ARG:CZ	1:h:289:HIS:HE1	2.18	0.56
1:k:436:ASN:HB2	1:l:354:VAL:CG1	2.35	0.56
1:n:287:ARG:CZ	1:n:289:HIS:HE1	2.18	0.56
1:r:436:ASN:HB2	1:s:354:VAL:CG1	2.35	0.56
1:t:383:ASN:HD22	1:x:707:LYS:HD3	1.71	0.56
1:v:586:ARG:HH22	1:v:589:ARG:HE	1.53	0.56
1:y:354:VAL:CG1	1:6:436:ASN:HB2	2.35	0.56
1:y:458:GLN:HE21	1:y:460:ARG:HH22	1.52	0.56
1:6:298:GLN:HA	1:6:301:ILE:HG12	1.87	0.56
1:A:458:GLN:HE21	1:A:460:ARG:HH22	1.52	0.56
1:A:586:ARG:HH22	1:A:589:ARG:HE	1.53	0.56
1:C:298:GLN:HA	1:C:301:ILE:HG12	1.87	0.56
1:F:342:GLN:HE21	1:F:650:LYS:HE2	1.71	0.56
1:J:436:ASN:HB2	1:L:354:VAL:CG1	2.35	0.56
1:N:282:TYR:HB3	1:N:648:LEU:HD23	1.87	0.56
1:P:238:ARG:NH1	1:P:684:GLU:OE2	2.35	0.56
1:Z:342:GLN:HE21	1:Z:650:LYS:HE2	1.71	0.56
1:0:287:ARG:CZ	1:0:289:HIS:HE1	2.18	0.56
1:0:436:ASN:HB2	1:7:354:VAL:CG1	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:298:GLN:HA	1:1:301:ILE:HG12	1.87	0.56
1:3:458:GLN:HE21	1:3:460:ARG:HH22	1.52	0.56
1:b:298:GLN:HA	1:b:301:ILE:HG12	1.87	0.56
1:b:342:GLN:HE21	1:b:650:LYS:HE2	1.71	0.56
1:h:586:ARG:HH22	1:h:589:ARG:HE	1.53	0.56
1:i:282:TYR:HB3	1:i:648:LEU:HD23	1.88	0.56
1:i:436:ASN:HB2	1:j:354:VAL:CG1	2.35	0.56
1:k:354:VAL:CG1	1:m:436:ASN:HB2	2.35	0.56
1:l:282:TYR:HB3	1:l:648:LEU:HD23	1.88	0.56
1:n:436:ASN:HB2	1:o:354:VAL:CG1	2.35	0.56
1:t:354:VAL:CG1	1:v:436:ASN:HB2	2.35	0.56
1:u:282:TYR:HB3	1:u:648:LEU:HD23	1.88	0.56
1:y:342:GLN:HE21	1:y:650:LYS:HE2	1.71	0.56
1:B:238:ARG:NH1	1:B:684:GLU:OE2	2.35	0.56
1:B:342:GLN:HE21	1:B:650:LYS:HE2	1.71	0.56
1:D:342:GLN:HE21	1:D:650:LYS:HE2	1.71	0.56
1:D:354:VAL:CG1	1:P:436:ASN:HB2	2.35	0.56
1:I:342:GLN:HE21	1:I:650:LYS:HE2	1.71	0.56
1:L:298:GLN:HA	1:L:301:ILE:HG12	1.87	0.56
1:R:287:ARG:CZ	1:R:289:HIS:HE1	2.18	0.56
1:R:354:VAL:H	1:R:646:GLN:NE2	2.04	0.56
1:T:383:ASN:HD22	1:c:707:LYS:HD3	1.71	0.56
1:W:342:GLN:HE21	1:W:650:LYS:HE2	1.71	0.56
1:X:342:GLN:HE21	1:X:650:LYS:HE2	1.71	0.56
1:Y:458:GLN:HE21	1:Y:460:ARG:HH22	1.52	0.56
1:Z:436:ASN:HB2	1:x:354:VAL:CG1	2.35	0.56
1:1:342:GLN:HE21	1:1:650:LYS:HE2	1.71	0.56
1:1:707:LYS:HD3	1:i:383:ASN:HD22	1.70	0.56
1:2:458:GLN:HE21	1:2:460:ARG:HH22	1.52	0.56
1:3:342:GLN:HE21	1:3:650:LYS:HE2	1.71	0.56
1:4:458:GLN:HE21	1:4:460:ARG:HH22	1.52	0.56
1:a:707:LYS:HD3	1:u:383:ASN:HD22	1.71	0.56
1:e:458:GLN:HE21	1:e:460:ARG:HH22	1.52	0.56
1:r:282:TYR:HB3	1:r:648:LEU:HD23	1.87	0.56
1:s:282:TYR:HB3	1:s:648:LEU:HD23	1.88	0.56
1:t:342:GLN:HE21	1:t:650:LYS:HE2	1.71	0.56
1:x:342:GLN:HE21	1:x:650:LYS:HE2	1.71	0.56
1:6:282:TYR:HB3	1:6:648:LEU:HD23	1.87	0.56
1:6:458:GLN:HE21	1:6:460:ARG:HH22	1.52	0.56
1:7:354:VAL:H	1:7:646:GLN:NE2	2.04	0.56
1:C:354:VAL:H	1:C:646:GLN:NE2	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:342:GLN:HE21	1:E:650:LYS:HE2	1.71	0.56
1:K:586:ARG:HH22	1:K:589:ARG:HE	1.53	0.56
1:L:458:GLN:HE21	1:L:460:ARG:HH22	1.52	0.56
1:R:342:GLN:HE21	1:R:650:LYS:HE2	1.71	0.56
1:S:354:VAL:H	1:S:646:GLN:NE2	2.04	0.56
1:T:282:TYR:HB3	1:T:648:LEU:HD23	1.88	0.56
1:T:458:GLN:HE21	1:T:460:ARG:HH22	1.52	0.56
1:T:586:ARG:HH22	1:T:589:ARG:HE	1.53	0.56
1:Y:298:GLN:HA	1:Y:301:ILE:HG12	1.87	0.56
1:Z:282:TYR:HB3	1:Z:648:LEU:HD23	1.88	0.56
1:O:354:VAL:H	1:O:646:GLN:NE2	2.04	0.56
1:3:436:ASN:HB2	1:f:354:VAL:CG1	2.35	0.56
1:c:436:ASN:HB2	1:d:354:VAL:CG1	2.35	0.56
1:d:383:ASN:HD22	1:f:707:LYS:HD3	1.70	0.56
1:i:707:LYS:HD3	1:6:383:ASN:HD22	1.71	0.56
1:j:383:ASN:HD22	1:z:707:LYS:HD3	1.70	0.56
1:l:383:ASN:HD22	1:r:707:LYS:HD3	1.71	0.56
1:m:354:VAL:H	1:m:646:GLN:NE2	2.04	0.56
1:n:342:GLN:HE21	1:n:650:LYS:HE2	1.71	0.56
1:n:707:LYS:HD3	1:z:383:ASN:HD22	1.71	0.56
1:q:354:VAL:H	1:q:646:GLN:NE2	2.04	0.56
1:D:298:GLN:HA	1:D:301:ILE:HG12	1.87	0.56
1:E:354:VAL:CG1	1:F:436:ASN:HB2	2.35	0.56
1:H:354:VAL:CG1	1:Y:436:ASN:HB2	2.35	0.56
1:I:602:LEU:N	1:I:605:MET:SD	2.71	0.56
1:J:282:TYR:HB3	1:J:648:LEU:HD23	1.87	0.56
1:M:383:ASN:HD22	1:2:707:LYS:HD3	1.71	0.56
1:Q:342:GLN:HE21	1:Q:650:LYS:HE2	1.71	0.56
1:R:458:GLN:HE21	1:R:460:ARG:HH22	1.52	0.56
1:U:586:ARG:HH22	1:U:589:ARG:HE	1.53	0.56
1:V:282:TYR:HB3	1:V:648:LEU:HD23	1.87	0.56
1:V:287:ARG:CZ	1:V:289:HIS:HE1	2.18	0.56
1:W:586:ARG:HH22	1:W:589:ARG:HE	1.53	0.56
1:O:342:GLN:HE21	1:O:650:LYS:HE2	1.71	0.56
1:3:282:TYR:HB3	1:3:648:LEU:HD23	1.88	0.56
1:4:342:GLN:HE21	1:4:650:LYS:HE2	1.71	0.56
1:5:282:TYR:HB3	1:5:648:LEU:HD23	1.88	0.56
1:5:354:VAL:H	1:5:646:GLN:NE2	2.04	0.56
1:a:354:VAL:H	1:a:646:GLN:NE2	2.04	0.56
1:b:707:LYS:HD3	1:c:383:ASN:HD22	1.70	0.56
1:h:298:GLN:HA	1:h:301:ILE:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:342:GLN:HE21	1:h:650:LYS:HE2	1.71	0.56
1:i:354:VAL:H	1:i:646:GLN:NE2	2.04	0.56
1:k:282:TYR:HB3	1:k:648:LEU:HD23	1.88	0.56
1:m:282:TYR:HB3	1:m:648:LEU:HD23	1.87	0.56
1:q:282:TYR:HB3	1:q:648:LEU:HD23	1.87	0.56
1:s:298:GLN:HA	1:s:301:ILE:HG12	1.87	0.56
1:w:342:GLN:HE21	1:w:650:LYS:HE2	1.71	0.56
1:6:586:ARG:HH22	1:6:589:ARG:HE	1.53	0.56
1:A:298:GLN:HA	1:A:301:ILE:HG12	1.87	0.56
1:A:436:ASN:HB2	1:G:354:VAL:CG1	2.35	0.56
1:C:282:TYR:HB3	1:C:648:LEU:HD23	1.88	0.56
1:F:282:TYR:HB3	1:F:648:LEU:HD23	1.88	0.56
1:J:287:ARG:CZ	1:J:289:HIS:HE1	2.18	0.56
1:M:354:VAL:CG1	1:1:436:ASN:HB2	2.35	0.56
1:M:354:VAL:H	1:M:646:GLN:NE2	2.04	0.56
1:M:707:LYS:HD3	1:N:383:ASN:HD22	1.71	0.56
1:O:458:GLN:HE21	1:O:460:ARG:HH22	1.52	0.56
1:2:282:TYR:HB3	1:2:648:LEU:HD23	1.88	0.56
1:4:298:GLN:HA	1:4:301:ILE:HG12	1.87	0.56
1:a:354:VAL:CG1	1:b:436:ASN:HB2	2.35	0.56
1:a:383:ASN:HD22	1:e:707:LYS:HD3	1.71	0.56
1:c:354:VAL:H	1:c:646:GLN:NE2	2.04	0.56
1:e:282:TYR:HB3	1:e:648:LEU:HD23	1.87	0.56
1:l:298:GLN:HA	1:l:301:ILE:HG12	1.87	0.56
1:o:354:VAL:H	1:o:646:GLN:NE2	2.04	0.56
1:o:436:ASN:HB2	1:p:354:VAL:CG1	2.35	0.56
1:t:298:GLN:HA	1:t:301:ILE:HG12	1.87	0.56
1:v:282:TYR:HB3	1:v:648:LEU:HD23	1.87	0.56
1:y:436:ASN:HB2	1:z:354:VAL:CG1	2.35	0.56
1:A:342:GLN:HE21	1:A:650:LYS:HE2	1.71	0.55
1:J:298:GLN:HA	1:J:301:ILE:HG12	1.87	0.55
1:K:436:ASN:HB2	1:O:354:VAL:CG1	2.35	0.55
1:L:342:GLN:HE21	1:L:650:LYS:HE2	1.71	0.55
1:O:354:VAL:H	1:O:646:GLN:NE2	2.04	0.55
1:P:282:TYR:HB3	1:P:648:LEU:HD23	1.87	0.55
1:P:354:VAL:H	1:P:646:GLN:NE2	2.04	0.55
1:R:354:VAL:CG1	1:U:436:ASN:HB2	2.35	0.55
1:X:354:VAL:CG1	1:4:436:ASN:HB2	2.35	0.55
1:O:586:ARG:HH22	1:O:589:ARG:HE	1.53	0.55
1:g:436:ASN:HB2	1:h:354:VAL:CG1	2.35	0.55
1:k:707:LYS:HD3	1:s:383:ASN:HD22	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:342:GLN:HE21	1:l:650:LYS:HE2	1.71	0.55
1:o:707:LYS:HD3	1:v:383:ASN:HD22	1.71	0.55
1:s:458:GLN:HE21	1:s:460:ARG:HH22	1.52	0.55
1:u:586:ARG:HH22	1:u:589:ARG:HE	1.53	0.55
1:v:354:VAL:H	1:v:646:GLN:NE2	2.04	0.55
1:w:282:TYR:HB3	1:w:648:LEU:HD23	1.88	0.55
1:x:298:GLN:HA	1:x:301:ILE:HG12	1.87	0.55
1:y:282:TYR:HB3	1:y:648:LEU:HD23	1.87	0.55
1:A:354:VAL:H	1:A:646:GLN:NE2	2.04	0.55
1:B:354:VAL:CG1	1:L:436:ASN:HB2	2.35	0.55
1:E:298:GLN:HA	1:E:301:ILE:HG12	1.87	0.55
1:G:298:GLN:HA	1:G:301:ILE:HG12	1.87	0.55
1:G:436:ASN:HB2	1:I:354:VAL:CG1	2.35	0.55
1:H:436:ASN:HB2	1:W:354:VAL:CG1	2.35	0.55
1:I:354:VAL:H	1:I:646:GLN:NE2	2.04	0.55
1:I:586:ARG:HH22	1:I:589:ARG:HE	1.53	0.55
1:M:342:GLN:HE21	1:M:650:LYS:HE2	1.71	0.55
1:N:354:VAL:H	1:N:646:GLN:NE2	2.04	0.55
1:N:586:ARG:HH22	1:N:589:ARG:HE	1.53	0.55
1:O:436:ASN:HB2	1:g:354:VAL:CG1	2.35	0.55
1:O:707:LYS:HD3	1:P:383:ASN:HD22	1.72	0.55
1:R:586:ARG:HH22	1:R:589:ARG:HE	1.53	0.55
1:T:354:VAL:CG1	1:f:436:ASN:HB2	2.35	0.55
1:Y:342:GLN:HE21	1:Y:650:LYS:HE2	1.71	0.55
1:Y:354:VAL:H	1:Y:646:GLN:NE2	2.04	0.55
1:a:342:GLN:HE21	1:a:650:LYS:HE2	1.71	0.55
1:c:458:GLN:HE21	1:c:460:ARG:HH22	1.52	0.55
1:e:342:GLN:HE21	1:e:650:LYS:HE2	1.71	0.55
1:f:282:TYR:HB3	1:f:648:LEU:HD23	1.87	0.55
1:l:458:GLN:HE21	1:l:460:ARG:HH22	1.53	0.55
1:m:586:ARG:HH22	1:m:589:ARG:HE	1.53	0.55
1:n:298:GLN:HA	1:n:301:ILE:HG12	1.87	0.55
1:q:586:ARG:HH22	1:q:589:ARG:HE	1.53	0.55
1:s:342:GLN:HE21	1:s:650:LYS:HE2	1.71	0.55
1:s:602:LEU:N	1:s:605:MET:SD	2.71	0.55
1:u:354:VAL:H	1:u:646:GLN:NE2	2.04	0.55
1:z:436:ASN:HB2	1:6:354:VAL:CG1	2.35	0.55
1:C:383:ASN:HD22	1:D:707:LYS:HD3	1.71	0.55
1:G:458:GLN:HE21	1:G:460:ARG:HH22	1.53	0.55
1:H:238:ARG:NH1	1:H:684:GLU:OE2	2.35	0.55
1:H:298:GLN:HA	1:H:301:ILE:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:458:GLN:HE21	1:H:460:ARG:HH22	1.52	0.55
1:J:342:GLN:HE21	1:J:650:LYS:HE2	1.71	0.55
1:O:354:VAL:CG1	1:h:436:ASN:HB2	2.36	0.55
1:Q:282:TYR:HB3	1:Q:648:LEU:HD23	1.88	0.55
1:V:298:GLN:HA	1:V:301:ILE:HG12	1.87	0.55
1:V:354:VAL:H	1:V:646:GLN:NE2	2.04	0.55
1:2:342:GLN:HE21	1:2:650:LYS:HE2	1.71	0.55
1:c:342:GLN:HE21	1:c:650:LYS:HE2	1.71	0.55
1:d:707:LYS:HD3	1:r:383:ASN:HD22	1.71	0.55
1:f:354:VAL:H	1:f:646:GLN:NE2	2.04	0.55
1:f:383:ASN:HD22	1:h:707:LYS:HD3	1.72	0.55
1:i:342:GLN:HE21	1:i:650:LYS:HE2	1.71	0.55
1:j:586:ARG:HH22	1:j:589:ARG:HE	1.53	0.55
1:l:287:ARG:CZ	1:l:289:HIS:HE1	2.18	0.55
1:o:298:GLN:HA	1:o:301:ILE:HG12	1.87	0.55
1:r:458:GLN:HE21	1:r:460:ARG:HH22	1.52	0.55
1:s:287:ARG:CZ	1:s:289:HIS:HE1	2.18	0.55
1:t:282:TYR:HB3	1:t:648:LEU:HD23	1.87	0.55
1:x:354:VAL:H	1:x:646:GLN:NE2	2.04	0.55
1:x:586:ARG:HH22	1:x:589:ARG:HE	1.53	0.55
1:z:282:TYR:HB3	1:z:648:LEU:HD23	1.87	0.55
1:D:282:TYR:HB3	1:D:648:LEU:HD23	1.87	0.55
1:E:354:VAL:H	1:E:646:GLN:NE2	2.04	0.55
1:F:354:VAL:H	1:F:646:GLN:NE2	2.04	0.55
1:I:707:LYS:HD3	1:J:383:ASN:HD22	1.70	0.55
1:J:354:VAL:H	1:J:646:GLN:NE2	2.04	0.55
1:J:458:GLN:HE21	1:J:460:ARG:HH22	1.52	0.55
1:L:707:LYS:HD3	1:1:383:ASN:HD22	1.71	0.55
1:R:383:ASN:HD22	1:V:707:LYS:HD3	1.71	0.55
1:S:707:LYS:HD3	1:3:383:ASN:HD22	1.71	0.55
1:V:342:GLN:HE21	1:V:650:LYS:HE2	1.71	0.55
1:V:383:ASN:HD22	1:W:707:LYS:HD3	1.70	0.55
1:W:354:VAL:H	1:W:646:GLN:NE2	2.04	0.55
1:Z:354:VAL:H	1:Z:646:GLN:NE2	2.04	0.55
1:4:282:TYR:HB3	1:4:648:LEU:HD23	1.88	0.55
1:4:707:LYS:HD3	1:b:383:ASN:HD22	1.71	0.55
1:5:383:ASN:HD22	1:t:707:LYS:HD3	1.71	0.55
1:d:586:ARG:HH22	1:d:589:ARG:HE	1.53	0.55
1:k:458:GLN:HE21	1:k:460:ARG:HH22	1.52	0.55
1:n:282:TYR:HB3	1:n:648:LEU:HD23	1.88	0.55
1:n:383:ASN:HD22	1:s:707:LYS:HD3	1.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:383:ASN:HD22	1:y:707:LYS:HD3	1.70	0.55
1:C:342:GLN:HE21	1:C:650:LYS:HE2	1.71	0.55
1:G:354:VAL:H	1:G:646:GLN:NE2	2.04	0.55
1:H:354:VAL:H	1:H:646:GLN:NE2	2.04	0.55
1:L:282:TYR:HB3	1:L:648:LEU:HD23	1.87	0.55
1:O:298:GLN:HA	1:O:301:ILE:HG12	1.87	0.55
1:5:342:GLN:HE21	1:5:650:LYS:HE2	1.71	0.55
1:e:238:ARG:NH1	1:e:684:GLU:OE2	2.35	0.55
1:h:282:TYR:HB3	1:h:648:LEU:HD23	1.88	0.55
1:i:458:GLN:HE21	1:i:460:ARG:HH22	1.53	0.55
1:j:354:VAL:H	1:j:646:GLN:NE2	2.04	0.55
1:j:707:LYS:HD3	1:k:383:ASN:HD22	1.71	0.55
1:q:238:ARG:NH1	1:q:684:GLU:OE2	2.35	0.55
1:y:383:ASN:HD22	1:7:707:LYS:HD3	1.71	0.55
1:z:354:VAL:H	1:z:646:GLN:NE2	2.04	0.55
1:6:354:VAL:H	1:6:646:GLN:NE2	2.04	0.55
1:E:586:ARG:HH22	1:E:589:ARG:HE	1.53	0.55
1:J:707:LYS:HD3	1:0:383:ASN:HD22	1.71	0.55
1:Q:354:VAL:H	1:Q:646:GLN:NE2	2.04	0.55
1:T:342:GLN:HE21	1:T:650:LYS:HE2	1.71	0.55
1:T:354:VAL:H	1:T:646:GLN:NE2	2.04	0.55
1:2:238:ARG:NH1	1:2:684:GLU:OE2	2.35	0.55
1:d:354:VAL:H	1:d:646:GLN:NE2	2.04	0.55
1:g:707:LYS:HD3	1:m:383:ASN:HD22	1.71	0.55
1:j:298:GLN:HA	1:j:301:ILE:HG12	1.87	0.55
1:p:342:GLN:HE21	1:p:650:LYS:HE2	1.71	0.55
1:p:707:LYS:HD3	1:q:383:ASN:HD22	1.71	0.55
1:u:342:GLN:HE21	1:u:650:LYS:HE2	1.71	0.55
1:w:354:VAL:H	1:w:646:GLN:NE2	2.04	0.55
1:z:586:ARG:HH22	1:z:589:ARG:HE	1.53	0.55
1:7:342:GLN:HE21	1:7:650:LYS:HE2	1.71	0.55
1:K:383:ASN:HD22	1:6:707:LYS:HD3	1.71	0.55
1:N:342:GLN:HE21	1:N:650:LYS:HE2	1.71	0.55
1:P:342:GLN:HE21	1:P:650:LYS:HE2	1.71	0.55
1:S:342:GLN:HE21	1:S:650:LYS:HE2	1.71	0.55
1:W:282:TYR:HB3	1:W:648:LEU:HD23	1.88	0.55
1:1:354:VAL:H	1:1:646:GLN:NE2	2.04	0.55
1:3:354:VAL:H	1:3:646:GLN:NE2	2.04	0.55
1:b:354:VAL:H	1:b:646:GLN:NE2	2.04	0.55
1:d:296:ASP:OD2	1:r:398:TYR:OH	2.25	0.55
1:d:298:GLN:HA	1:d:301:ILE:HG12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:586:ARG:HH22	1:f:589:ARG:HE	1.53	0.55
1:g:342:GLN:HE21	1:g:650:LYS:HE2	1.71	0.55
1:h:383:ASN:HD22	1:l:707:LYS:HD3	1.71	0.55
1:j:282:TYR:HB3	1:j:648:LEU:HD23	1.88	0.55
1:j:296:ASP:OD2	1:k:398:TYR:OH	2.25	0.55
1:j:342:GLN:HE21	1:j:650:LYS:HE2	1.71	0.55
1:m:238:ARG:NH1	1:m:684:GLU:OE2	2.35	0.55
1:s:354:VAL:H	1:s:646:GLN:NE2	2.04	0.55
1:v:342:GLN:HE21	1:v:650:LYS:HE2	1.71	0.55
1:w:296:ASP:OD2	1:7:398:TYR:OH	2.25	0.55
1:6:342:GLN:HE21	1:6:650:LYS:HE2	1.71	0.55
1:A:398:TYR:OH	1:B:296:ASP:OD2	2.25	0.55
1:G:296:ASP:OD2	1:W:398:TYR:OH	2.25	0.55
1:H:296:ASP:OD2	1:I:398:TYR:OH	2.25	0.55
1:K:238:ARG:NH1	1:K:684:GLU:OE2	2.35	0.55
1:K:354:VAL:H	1:K:646:GLN:NE2	2.04	0.55
1:O:383:ASN:HD22	1:3:707:LYS:HD3	1.70	0.55
1:Q:296:ASP:OD2	1:S:398:TYR:OH	2.25	0.55
1:V:458:GLN:HE21	1:V:460:ARG:HH22	1.52	0.55
1:X:296:ASP:OD2	1:Y:398:TYR:OH	2.25	0.55
1:d:282:TYR:HB3	1:d:648:LEU:HD23	1.87	0.55
1:d:342:GLN:HE21	1:d:650:LYS:HE2	1.71	0.55
1:o:599:GLN:HE22	1:p:598:THR:HG21	1.72	0.55
1:y:354:VAL:H	1:y:646:GLN:NE2	2.04	0.55
1:D:398:TYR:OH	1:E:296:ASP:OD2	2.25	0.55
1:H:342:GLN:HE21	1:H:650:LYS:HE2	1.71	0.55
1:I:282:TYR:HB3	1:I:648:LEU:HD23	1.88	0.55
1:K:282:TYR:HB3	1:K:648:LEU:HD23	1.87	0.55
1:K:342:GLN:HE21	1:K:650:LYS:HE2	1.71	0.55
1:L:354:VAL:H	1:L:646:GLN:NE2	2.04	0.55
1:T:707:LYS:HD3	1:U:383:ASN:HD22	1.71	0.55
1:U:342:GLN:HE21	1:U:650:LYS:HE2	1.71	0.55
1:U:354:VAL:H	1:U:646:GLN:NE2	2.04	0.55
1:a:602:LEU:N	1:a:605:MET:SD	2.71	0.55
1:l:354:VAL:H	1:l:646:GLN:NE2	2.04	0.55
1:t:398:TYR:OH	1:x:296:ASP:OD2	2.25	0.55
1:y:298:GLN:HA	1:y:301:ILE:HG12	1.87	0.55
1:D:354:VAL:H	1:D:646:GLN:NE2	2.04	0.55
1:D:586:ARG:HH22	1:D:589:ARG:HE	1.53	0.55
1:G:342:GLN:HE21	1:G:650:LYS:HE2	1.71	0.55
1:H:282:TYR:HB3	1:H:648:LEU:HD23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:223:ASN:OD1	1:J:224:SER:N	2.41	0.55
1:O:282:TYR:HB3	1:O:648:LEU:HD23	1.87	0.55
1:P:223:ASN:OD1	1:P:224:SER:N	2.40	0.55
1:T:223:ASN:OD1	1:T:224:SER:N	2.41	0.55
1:V:586:ARG:HH22	1:V:589:ARG:HE	1.53	0.55
1:3:298:GLN:HA	1:3:301:ILE:HG12	1.87	0.55
1:5:586:ARG:HH22	1:5:589:ARG:HE	1.53	0.55
1:e:586:ARG:HH22	1:e:589:ARG:HE	1.53	0.55
1:h:398:TYR:OH	1:l:296:ASP:OD2	2.25	0.55
1:k:342:GLN:HE21	1:k:650:LYS:HE2	1.71	0.55
1:l:602:LEU:N	1:l:605:MET:SD	2.71	0.55
1:n:398:TYR:OH	1:s:296:ASP:OD2	2.25	0.55
1:o:342:GLN:HE21	1:o:650:LYS:HE2	1.71	0.55
1:t:586:ARG:HH22	1:t:589:ARG:HE	1.53	0.55
1:C:586:ARG:HH22	1:C:589:ARG:HE	1.53	0.54
1:E:223:ASN:OD1	1:E:224:SER:N	2.41	0.54
1:T:339:SER:HA	1:c:320:GLN:HE22	1.72	0.54
1:U:238:ARG:NH1	1:U:684:GLU:OE2	2.35	0.54
1:U:282:TYR:HB3	1:U:648:LEU:HD23	1.88	0.54
1:V:223:ASN:OD1	1:V:224:SER:N	2.41	0.54
1:2:586:ARG:HH22	1:2:589:ARG:HE	1.53	0.54
1:b:223:ASN:OD1	1:b:224:SER:N	2.41	0.54
1:c:223:ASN:OD1	1:c:224:SER:N	2.40	0.54
1:p:223:ASN:OD1	1:p:224:SER:N	2.40	0.54
1:r:342:GLN:HE21	1:r:650:LYS:HE2	1.71	0.54
1:t:354:VAL:H	1:t:646:GLN:NE2	2.04	0.54
1:u:223:ASN:OD1	1:u:224:SER:N	2.40	0.54
1:v:223:ASN:OD1	1:v:224:SER:N	2.41	0.54
1:w:223:ASN:OD1	1:w:224:SER:N	2.41	0.54
1:x:223:ASN:OD1	1:x:224:SER:N	2.41	0.54
1:6:223:ASN:OD1	1:6:224:SER:N	2.41	0.54
1:A:383:ASN:HD22	1:B:707:LYS:HD3	1.71	0.54
1:B:354:VAL:H	1:B:646:GLN:NE2	2.04	0.54
1:B:586:ARG:HH22	1:B:589:ARG:HE	1.53	0.54
1:J:586:ARG:HH22	1:J:589:ARG:HE	1.53	0.54
1:K:223:ASN:OD1	1:K:224:SER:N	2.41	0.54
1:M:602:LEU:N	1:M:605:MET:SD	2.71	0.54
1:N:223:ASN:OD1	1:N:224:SER:N	2.41	0.54
1:O:342:GLN:HE21	1:O:650:LYS:HE2	1.71	0.54
1:Q:223:ASN:OD1	1:Q:224:SER:N	2.41	0.54
1:S:296:ASP:OD2	1:3:398:TYR:OH	2.25	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:598:THR:HG21	1:X:599:GLN:HE22	1.73	0.54
1:X:586:ARG:HH22	1:X:589:ARG:HE	1.53	0.54
1:1:223:ASN:OD1	1:1:224:SER:N	2.41	0.54
1:4:354:VAL:H	1:4:646:GLN:NE2	2.04	0.54
1:d:223:ASN:OD1	1:d:224:SER:N	2.40	0.54
1:d:320:GLN:HE22	1:r:339:SER:HA	1.73	0.54
1:f:342:GLN:HE21	1:f:650:LYS:HE2	1.71	0.54
1:i:223:ASN:OD1	1:i:224:SER:N	2.41	0.54
1:j:223:ASN:OD1	1:j:224:SER:N	2.41	0.54
1:o:282:TYR:HB3	1:o:648:LEU:HD23	1.87	0.54
1:z:342:GLN:HE21	1:z:650:LYS:HE2	1.71	0.54
1:B:599:GLN:HE22	1:J:598:THR:HG21	1.73	0.54
1:G:282:TYR:HB3	1:G:648:LEU:HD23	1.87	0.54
1:H:383:ASN:HD22	1:Z:707:LYS:HD3	1.71	0.54
1:J:296:ASP:OD2	1:O:398:TYR:OH	2.25	0.54
1:M:223:ASN:OD1	1:M:224:SER:N	2.41	0.54
1:R:398:TYR:OH	1:V:296:ASP:OD2	2.25	0.54
1:U:223:ASN:OD1	1:U:224:SER:N	2.41	0.54
1:X:354:VAL:H	1:X:646:GLN:NE2	2.04	0.54
1:X:707:LYS:HD3	1:Y:383:ASN:HD22	1.71	0.54
1:a:223:ASN:OD1	1:a:224:SER:N	2.41	0.54
1:b:296:ASP:OD2	1:c:398:TYR:OH	2.25	0.54
1:g:223:ASN:OD1	1:g:224:SER:N	2.41	0.54
1:h:223:ASN:OD1	1:h:224:SER:N	2.41	0.54
1:h:354:VAL:H	1:h:646:GLN:NE2	2.04	0.54
1:n:223:ASN:OD1	1:n:224:SER:N	2.41	0.54
1:n:599:GLN:HE22	1:o:598:THR:HG21	1.73	0.54
1:y:398:TYR:OH	1:7:296:ASP:OD2	2.25	0.54
1:A:707:LYS:HD3	1:E:383:ASN:HD22	1.70	0.54
1:L:320:GLN:HE22	1:1:339:SER:HA	1.73	0.54
1:O:238:ARG:NH1	1:O:684:GLU:OE2	2.35	0.54
1:X:223:ASN:OD1	1:X:224:SER:N	2.41	0.54
1:Y:707:LYS:HD3	1:x:383:ASN:HD22	1.70	0.54
1:1:296:ASP:OD2	1:i:398:TYR:OH	2.25	0.54
1:4:320:GLN:HE22	1:b:339:SER:HA	1.73	0.54
1:5:398:TYR:OH	1:t:296:ASP:OD2	2.25	0.54
1:b:282:TYR:HB3	1:b:648:LEU:HD23	1.87	0.54
1:i:320:GLN:HE22	1:6:339:SER:HA	1.73	0.54
1:n:354:VAL:H	1:n:646:GLN:NE2	2.04	0.54
1:o:296:ASP:OD2	1:v:398:TYR:OH	2.25	0.54
1:o:398:TYR:OH	1:y:296:ASP:OD2	2.26	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:354:VAL:H	1:p:646:GLN:NE2	2.04	0.54
1:t:441:GLN:O	1:t:465:GLN:NE2	2.39	0.54
1:B:223:ASN:OD1	1:B:224:SER:N	2.41	0.54
1:C:602:LEU:N	1:C:605:MET:SD	2.71	0.54
1:F:707:LYS:HD3	1:G:383:ASN:HD22	1.71	0.54
1:I:296:ASP:OD2	1:J:398:TYR:OH	2.25	0.54
1:O:398:TYR:OH	1:3:296:ASP:OD2	2.26	0.54
1:T:296:ASP:OD2	1:U:398:TYR:OH	2.25	0.54
1:T:398:TYR:OH	1:c:296:ASP:OD2	2.25	0.54
1:2:223:ASN:OD1	1:2:224:SER:N	2.41	0.54
1:a:398:TYR:OH	1:e:296:ASP:OD2	2.25	0.54
1:e:223:ASN:OD1	1:e:224:SER:N	2.41	0.54
1:e:354:VAL:H	1:e:646:GLN:NE2	2.04	0.54
1:i:296:ASP:OD2	1:6:398:TYR:OH	2.25	0.54
1:j:320:GLN:HE22	1:k:339:SER:HA	1.73	0.54
1:m:342:GLN:HE21	1:m:650:LYS:HE2	1.71	0.54
1:p:339:SER:HA	1:u:320:GLN:HE22	1.72	0.54
1:s:223:ASN:OD1	1:s:224:SER:N	2.40	0.54
1:B:398:TYR:OH	1:C:296:ASP:OD2	2.25	0.54
1:C:223:ASN:OD1	1:C:224:SER:N	2.41	0.54
1:C:398:TYR:OH	1:D:296:ASP:OD2	2.25	0.54
1:G:320:GLN:HE22	1:W:339:SER:HA	1.73	0.54
1:H:320:GLN:HE22	1:I:339:SER:HA	1.73	0.54
1:K:398:TYR:OH	1:6:296:ASP:OD2	2.25	0.54
1:L:223:ASN:OD1	1:L:224:SER:N	2.40	0.54
1:M:398:TYR:OH	1:2:296:ASP:OD2	2.25	0.54
1:O:296:ASP:OD2	1:P:398:TYR:OH	2.25	0.54
1:Q:707:LYS:HD3	1:S:383:ASN:HD22	1.71	0.54
1:R:602:LEU:N	1:R:605:MET:SD	2.71	0.54
1:V:398:TYR:OH	1:W:296:ASP:OD2	2.25	0.54
1:0:602:LEU:N	1:0:605:MET:SD	2.71	0.54
1:1:282:TYR:HB3	1:1:648:LEU:HD23	1.87	0.54
1:2:354:VAL:H	1:2:646:GLN:NE2	2.04	0.54
1:f:398:TYR:OH	1:h:296:ASP:OD2	2.25	0.54
1:g:354:VAL:H	1:g:646:GLN:NE2	2.04	0.54
1:l:223:ASN:OD1	1:l:224:SER:N	2.40	0.54
1:o:238:ARG:NH1	1:o:684:GLU:OE2	2.35	0.54
1:q:342:GLN:HE21	1:q:650:LYS:HE2	1.71	0.54
1:A:223:ASN:OD1	1:A:224:SER:N	2.41	0.54
1:O:223:ASN:OD1	1:O:224:SER:N	2.40	0.54
1:R:223:ASN:OD1	1:R:224:SER:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:398:TYR:OH	1:5:296:ASP:OD2	2.25	0.54
1:Y:223:ASN:OD1	1:Y:224:SER:N	2.41	0.54
1:Z:223:ASN:OD1	1:Z:224:SER:N	2.41	0.54
1:5:223:ASN:OD1	1:5:224:SER:N	2.41	0.54
1:c:599:GLN:HE22	1:d:598:THR:HG21	1.73	0.54
1:i:599:GLN:HE22	1:j:598:THR:HG21	1.73	0.54
1:v:296:ASP:OD2	1:w:398:TYR:OH	2.25	0.54
1:B:339:SER:HA	1:C:320:GLN:HE22	1.73	0.54
1:C:599:GLN:HE22	1:1:598:THR:HG21	1.73	0.54
1:F:223:ASN:OD1	1:F:224:SER:N	2.41	0.54
1:I:223:ASN:OD1	1:I:224:SER:N	2.40	0.54
1:O:599:GLN:HE22	1:g:598:THR:HG21	1.73	0.54
1:P:296:ASP:OD2	1:Q:398:TYR:OH	2.25	0.54
1:0:223:ASN:OD1	1:0:224:SER:N	2.41	0.54
1:3:586:ARG:HH22	1:3:589:ARG:HE	1.53	0.54
1:4:223:ASN:OD1	1:4:224:SER:N	2.41	0.54
1:5:599:GLN:HE22	1:b:598:THR:HG21	1.73	0.54
1:l:398:TYR:OH	1:r:296:ASP:OD2	2.25	0.54
1:m:223:ASN:OD1	1:m:224:SER:N	2.41	0.54
1:r:354:VAL:H	1:r:646:GLN:NE2	2.04	0.54
1:D:223:ASN:OD1	1:D:224:SER:N	2.41	0.54
1:H:339:SER:HA	1:Z:320:GLN:HE22	1.73	0.54
1:H:398:TYR:OH	1:Z:296:ASP:OD2	2.25	0.54
1:J:599:GLN:HE22	1:L:598:THR:HG21	1.73	0.54
1:O:598:THR:HG21	1:h:599:GLN:HE22	1.73	0.54
1:W:223:ASN:OD1	1:W:224:SER:N	2.41	0.54
1:X:339:SER:HA	1:5:320:GLN:HE22	1.73	0.54
1:2:598:THR:HG21	1:j:599:GLN:HE22	1.73	0.54
1:g:320:GLN:HE22	1:m:339:SER:HA	1.73	0.54
1:k:296:ASP:OD2	1:s:398:TYR:OH	2.25	0.54
1:k:354:VAL:H	1:k:646:GLN:NE2	2.04	0.54
1:n:320:GLN:HE22	1:z:339:SER:HA	1.73	0.54
1:o:223:ASN:OD1	1:o:224:SER:N	2.41	0.54
1:o:320:GLN:HE22	1:v:339:SER:HA	1.73	0.54
1:p:296:ASP:OD2	1:q:398:TYR:OH	2.25	0.54
1:p:398:TYR:OH	1:u:296:ASP:OD2	2.25	0.54
1:q:223:ASN:OD1	1:q:224:SER:N	2.41	0.54
1:w:707:LYS:HD3	1:7:383:ASN:HD22	1.71	0.54
1:y:339:SER:HA	1:7:320:GLN:HE22	1.73	0.54
1:F:320:GLN:HE22	1:G:339:SER:HA	1.73	0.54
1:K:599:GLN:HE22	1:0:598:THR:HG21	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:598:THR:HG21	1:1:599:GLN:HE22	1.73	0.54
1:O:320:GLN:HE22	1:P:339:SER:HA	1.73	0.54
1:R:598:THR:HG21	1:U:599:GLN:HE22	1.73	0.54
1:S:320:GLN:HE22	1:3:339:SER:HA	1.73	0.54
1:a:598:THR:HG21	1:b:599:GLN:HE22	1.73	0.54
1:t:223:ASN:OD1	1:t:224:SER:N	2.41	0.54
1:7:223:ASN:OD1	1:7:224:SER:N	2.41	0.54
1:F:296:ASP:OD2	1:G:398:TYR:OH	2.25	0.53
1:M:339:SER:HA	1:2:320:GLN:HE22	1.73	0.53
1:N:296:ASP:OD2	1:g:398:TYR:OH	2.25	0.53
1:N:320:GLN:HE22	1:g:339:SER:HA	1.73	0.53
1:V:599:GLN:HE22	1:4:598:THR:HG21	1.73	0.53
1:a:296:ASP:OD2	1:u:398:TYR:OH	2.25	0.53
1:d:599:GLN:HE22	1:e:598:THR:HG21	1.73	0.53
1:f:339:SER:HA	1:h:320:GLN:HE22	1.73	0.53
1:y:586:ARG:HH22	1:y:589:ARG:HE	1.53	0.53
1:A:442:TYR:HA	1:A:465:GLN:HE21	1.74	0.53
1:C:598:THR:HG21	1:M:599:GLN:HE22	1.73	0.53
1:D:339:SER:HA	1:E:320:GLN:HE22	1.73	0.53
1:F:442:TYR:HA	1:F:465:GLN:HE21	1.74	0.53
1:G:442:TYR:HA	1:G:465:GLN:HE21	1.74	0.53
1:L:441:GLN:O	1:L:465:GLN:NE2	2.39	0.53
1:S:223:ASN:OD1	1:S:224:SER:N	2.41	0.53
1:Y:442:TYR:HA	1:Y:465:GLN:HE21	1.74	0.53
1:4:441:GLN:O	1:4:465:GLN:NE2	2.39	0.53
1:5:598:THR:HG21	1:a:599:GLN:HE22	1.73	0.53
1:k:441:GLN:O	1:k:465:GLN:NE2	2.39	0.53
1:k:599:GLN:HE22	1:l:598:THR:HG21	1.73	0.53
1:H:442:TYR:HA	1:H:465:GLN:HE21	1.74	0.53
1:K:598:THR:HG21	1:7:599:GLN:HE22	1.73	0.53
1:M:296:ASP:OD2	1:N:398:TYR:OH	2.25	0.53
1:P:320:GLN:HE22	1:Q:339:SER:HA	1.73	0.53
1:Q:320:GLN:HE22	1:S:339:SER:HA	1.73	0.53
1:S:599:GLN:HE22	1:U:598:THR:HG21	1.73	0.53
1:T:598:THR:HG21	1:f:599:GLN:HE22	1.73	0.53
1:Z:442:TYR:HA	1:Z:465:GLN:HE21	1.74	0.53
1:Z:598:THR:HG21	1:w:599:GLN:HE22	1.73	0.53
1:4:296:ASP:OD2	1:b:398:TYR:OH	2.25	0.53
1:a:339:SER:HA	1:e:320:GLN:HE22	1.73	0.53
1:e:398:TYR:OH	1:q:296:ASP:OD2	2.25	0.53
1:g:296:ASP:OD2	1:m:398:TYR:OH	2.25	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:339:SER:HA	1:z:320:GLN:HE22	1.73	0.53
1:k:223:ASN:OD1	1:k:224:SER:N	2.41	0.53
1:p:320:GLN:HE22	1:q:339:SER:HA	1.73	0.53
1:r:441:GLN:O	1:r:465:GLN:NE2	2.39	0.53
1:r:599:GLN:HE22	1:s:598:THR:HG21	1.73	0.53
1:t:339:SER:HA	1:x:320:GLN:HE22	1.73	0.53
1:B:442:TYR:HA	1:B:465:GLN:HE21	1.74	0.53
1:F:398:TYR:OH	1:R:296:ASP:OD2	2.25	0.53
1:F:598:THR:HG21	1:Q:599:GLN:HE22	1.73	0.53
1:G:599:GLN:HE22	1:I:598:THR:HG21	1.73	0.53
1:J:442:TYR:HA	1:J:465:GLN:HE21	1.74	0.53
1:K:339:SER:HA	1:6:320:GLN:HE22	1.73	0.53
1:L:296:ASP:OD2	1:1:398:TYR:OH	2.25	0.53
1:M:320:GLN:HE22	1:N:339:SER:HA	1.73	0.53
1:R:339:SER:HA	1:V:320:GLN:HE22	1.73	0.53
1:T:320:GLN:HE22	1:U:339:SER:HA	1.73	0.53
1:T:599:GLN:HE22	1:3:598:THR:HG21	1.73	0.53
1:V:442:TYR:HA	1:V:465:GLN:HE21	1.74	0.53
1:Y:320:GLN:HE22	1:x:339:SER:HA	1.73	0.53
1:2:398:TYR:OH	1:m:296:ASP:OD2	2.25	0.53
1:3:223:ASN:OD1	1:3:224:SER:N	2.41	0.53
1:a:320:GLN:HE22	1:u:339:SER:HA	1.73	0.53
1:k:602:LEU:N	1:k:605:MET:SD	2.71	0.53
1:n:296:ASP:OD2	1:z:398:TYR:OH	2.25	0.53
1:r:223:ASN:OD1	1:r:224:SER:N	2.41	0.53
1:r:602:LEU:N	1:r:605:MET:SD	2.71	0.53
1:y:598:THR:HG21	1:6:599:GLN:HE22	1.73	0.53
1:z:599:GLN:HE22	1:6:598:THR:HG21	1.73	0.53
1:A:320:GLN:HE22	1:E:339:SER:HA	1.73	0.53
1:C:339:SER:HA	1:D:320:GLN:HE22	1.73	0.53
1:G:441:GLN:O	1:G:465:GLN:NE2	2.39	0.53
1:J:320:GLN:HE22	1:0:339:SER:HA	1.73	0.53
1:2:599:GLN:HE22	1:i:598:THR:HG21	1.73	0.53
1:4:442:TYR:HA	1:4:465:GLN:HE21	1.74	0.53
1:c:442:TYR:HA	1:c:465:GLN:HE21	1.74	0.53
1:d:339:SER:HA	1:f:320:GLN:HE22	1.74	0.53
1:j:398:TYR:OH	1:z:296:ASP:OD2	2.26	0.53
1:m:442:TYR:HA	1:m:465:GLN:HE21	1.74	0.53
1:q:442:TYR:HA	1:q:465:GLN:HE21	1.74	0.53
1:t:598:THR:HG21	1:v:599:GLN:HE22	1.73	0.53
1:v:320:GLN:HE22	1:w:339:SER:HA	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:320:GLN:HE22	1:7:339:SER:HA	1.73	0.53
1:A:598:THR:HG21	1:I:599:GLN:HE22	1.73	0.53
1:H:599:GLN:HE22	1:W:598:THR:HG21	1.73	0.53
1:I:441:GLN:O	1:I:465:GLN:NE2	2.39	0.53
1:K:442:TYR:HA	1:K:465:GLN:HE21	1.74	0.53
1:N:599:GLN:HE22	1:P:598:THR:HG21	1.73	0.53
1:X:442:TYR:HA	1:X:465:GLN:HE21	1.74	0.53
1:Y:296:ASP:OD2	1:x:398:TYR:OH	2.25	0.53
1:Z:398:TYR:OH	1:0:296:ASP:OD2	2.26	0.53
1:3:599:GLN:HE22	1:f:598:THR:HG21	1.73	0.53
1:c:598:THR:HG21	1:e:599:GLN:HE22	1.73	0.53
1:d:398:TYR:OH	1:f:296:ASP:OD2	2.25	0.53
1:f:442:TYR:HA	1:f:465:GLN:HE21	1.74	0.53
1:i:442:TYR:HA	1:i:465:GLN:HE21	1.74	0.53
1:u:599:GLN:HE22	1:v:598:THR:HG21	1.73	0.53
1:y:223:ASN:OD1	1:y:224:SER:N	2.41	0.53
1:z:442:TYR:HA	1:z:465:GLN:HE21	1.74	0.53
1:A:296:ASP:OD2	1:E:398:TYR:OH	2.25	0.53
1:D:454:GLY:O	1:D:455:THR:OG1	2.26	0.53
1:D:598:THR:HG21	1:P:599:GLN:HE22	1.73	0.53
1:H:441:GLN:O	1:H:465:GLN:NE2	2.39	0.53
1:J:454:GLY:O	1:J:455:THR:OG1	2.26	0.53
1:L:442:TYR:HA	1:L:465:GLN:HE21	1.74	0.53
1:R:442:TYR:HA	1:R:465:GLN:HE21	1.74	0.53
1:U:442:TYR:HA	1:U:465:GLN:HE21	1.74	0.53
1:U:454:GLY:C	1:U:456:THR:H	2.17	0.53
1:W:441:GLN:O	1:W:465:GLN:NE2	2.39	0.53
1:W:599:GLN:HE22	1:Y:598:THR:HG21	1.73	0.53
1:X:598:THR:HG21	1:4:599:GLN:HE22	1.73	0.53
1:Z:339:SER:HA	1:0:320:GLN:HE22	1.73	0.53
1:1:442:TYR:HA	1:1:465:GLN:HE21	1.74	0.53
1:5:339:SER:HA	1:t:320:GLN:HE22	1.73	0.53
1:f:223:ASN:OD1	1:f:224:SER:N	2.40	0.53
1:h:339:SER:HA	1:l:320:GLN:HE22	1.73	0.53
1:t:454:GLY:O	1:t:455:THR:OG1	2.26	0.53
1:u:442:TYR:HA	1:u:465:GLN:HE21	1.74	0.53
1:B:598:THR:HG21	1:L:599:GLN:HE22	1.73	0.53
1:D:442:TYR:HA	1:D:465:GLN:HE21	1.74	0.53
1:E:599:GLN:HE22	1:Q:598:THR:HG21	1.73	0.53
1:F:339:SER:HA	1:R:320:GLN:HE22	1.73	0.53
1:G:223:ASN:OD1	1:G:224:SER:N	2.40	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:223:ASN:OD1	1:H:224:SER:N	2.41	0.53
1:N:442:TYR:HA	1:N:465:GLN:HE21	1.74	0.53
1:O:442:TYR:HA	1:O:465:GLN:HE21	1.74	0.53
1:1:454:GLY:C	1:1:456:THR:H	2.17	0.53
1:b:454:GLY:C	1:b:456:THR:H	2.17	0.53
1:e:442:TYR:HA	1:e:465:GLN:HE21	1.74	0.53
1:l:442:TYR:HA	1:l:465:GLN:HE21	1.74	0.53
1:t:454:GLY:C	1:t:456:THR:H	2.17	0.53
1:z:223:ASN:OD1	1:z:224:SER:N	2.41	0.53
1:D:454:GLY:C	1:D:456:THR:H	2.17	0.53
1:H:454:GLY:O	1:H:455:THR:OG1	2.26	0.53
1:K:454:GLY:C	1:K:456:THR:H	2.17	0.53
1:R:454:GLY:C	1:R:456:THR:H	2.17	0.53
1:U:320:GLN:HE22	1:4:339:SER:HA	1.73	0.53
1:Z:599:GLN:HE22	1:x:598:THR:HG21	1.73	0.53
1:2:339:SER:HA	1:m:320:GLN:HE22	1.73	0.53
1:2:442:TYR:HA	1:2:465:GLN:HE21	1.74	0.53
1:3:442:TYR:HA	1:3:465:GLN:HE21	1.74	0.53
1:3:586:ARG:NH2	1:3:589:ARG:HE	2.07	0.53
1:b:442:TYR:HA	1:b:465:GLN:HE21	1.74	0.53
1:g:454:GLY:C	1:g:456:THR:H	2.17	0.53
1:k:442:TYR:HA	1:k:465:GLN:HE21	1.74	0.53
1:l:339:SER:HA	1:r:320:GLN:HE22	1.73	0.53
1:n:339:SER:HA	1:s:320:GLN:HE22	1.73	0.53
1:n:598:THR:HG21	1:p:599:GLN:HE22	1.72	0.53
1:p:454:GLY:C	1:p:456:THR:H	2.17	0.53
1:t:442:TYR:HA	1:t:465:GLN:HE21	1.74	0.53
1:w:598:THR:HG21	1:x:599:GLN:HE22	1.73	0.53
1:y:442:TYR:HA	1:y:465:GLN:HE21	1.74	0.53
1:A:454:GLY:C	1:A:456:THR:H	2.17	0.53
1:E:442:TYR:HA	1:E:465:GLN:HE21	1.74	0.53
1:E:598:THR:HG21	1:F:599:GLN:HE22	1.73	0.53
1:G:454:GLY:O	1:G:455:THR:OG1	2.26	0.53
1:K:296:ASP:OD2	1:L:398:TYR:OH	2.26	0.53
1:K:320:GLN:HE22	1:L:339:SER:HA	1.73	0.53
1:P:586:ARG:NH2	1:P:589:ARG:HE	2.07	0.53
1:R:599:GLN:HE22	1:S:598:THR:HG21	1.73	0.53
1:T:442:TYR:HA	1:T:465:GLN:HE21	1.74	0.53
1:U:296:ASP:OD2	1:4:398:TYR:OH	2.25	0.53
1:Y:454:GLY:C	1:Y:456:THR:H	2.17	0.53
1:O:454:GLY:C	1:O:456:THR:H	2.17	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:454:GLY:C	1:c:456:THR:H	2.17	0.53
1:e:339:SER:HA	1:q:320:GLN:HE22	1.73	0.53
1:i:586:ARG:NH2	1:i:589:ARG:HE	2.07	0.53
1:j:442:TYR:HA	1:j:465:GLN:HE21	1.74	0.53
1:r:442:TYR:HA	1:r:465:GLN:HE21	1.74	0.53
1:y:586:ARG:NH2	1:y:589:ARG:HE	2.07	0.53
1:y:599:GLN:HE22	1:z:598:THR:HG21	1.73	0.53
1:z:454:GLY:C	1:z:456:THR:H	2.17	0.53
1:Q:454:GLY:O	1:Q:455:THR:OG1	2.26	0.52
1:T:454:GLY:C	1:T:456:THR:H	2.17	0.52
1:2:454:GLY:C	1:2:456:THR:H	2.17	0.52
1:5:454:GLY:O	1:5:455:THR:OG1	2.26	0.52
1:c:586:ARG:NH2	1:c:589:ARG:HE	2.07	0.52
1:e:454:GLY:C	1:e:456:THR:H	2.17	0.52
1:f:454:GLY:C	1:f:456:THR:H	2.17	0.52
1:i:454:GLY:C	1:i:456:THR:H	2.17	0.52
1:j:454:GLY:C	1:j:456:THR:H	2.17	0.52
1:k:320:GLN:HE22	1:s:339:SER:HA	1.73	0.52
1:l:586:ARG:NH2	1:l:589:ARG:HE	2.07	0.52
1:o:339:SER:HA	1:y:320:GLN:HE22	1.73	0.52
1:p:442:TYR:HA	1:p:465:GLN:HE21	1.74	0.52
1:s:442:TYR:HA	1:s:465:GLN:HE21	1.74	0.52
1:s:586:ARG:NH2	1:s:589:ARG:HE	2.07	0.52
1:v:586:ARG:NH2	1:v:589:ARG:HE	2.07	0.52
1:z:586:ARG:NH2	1:z:589:ARG:HE	2.07	0.52
1:6:442:TYR:HA	1:6:465:GLN:HE21	1.74	0.52
1:6:454:GLY:C	1:6:456:THR:H	2.17	0.52
1:B:586:ARG:NH2	1:B:589:ARG:HE	2.07	0.52
1:D:599:GLN:HE22	1:N:598:THR:HG21	1.73	0.52
1:F:454:GLY:O	1:F:455:THR:OG1	2.26	0.52
1:H:586:ARG:NH2	1:H:589:ARG:HE	2.07	0.52
1:J:586:ARG:NH2	1:J:589:ARG:HE	2.07	0.52
1:N:441:GLN:O	1:N:465:GLN:NE2	2.39	0.52
1:Q:454:GLY:C	1:Q:456:THR:H	2.17	0.52
1:Q:586:ARG:HE	1:Q:588:ASN:HB2	1.75	0.52
1:O:599:GLN:HE22	1:7:598:THR:HG21	1.73	0.52
1:2:586:ARG:NH2	1:2:589:ARG:HE	2.07	0.52
1:b:586:ARG:NH2	1:b:589:ARG:HE	2.07	0.52
1:d:442:TYR:HA	1:d:465:GLN:HE21	1.74	0.52
1:d:454:GLY:C	1:d:456:THR:H	2.17	0.52
1:f:586:ARG:NH2	1:f:589:ARG:HE	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:586:ARG:HE	1:i:588:ASN:HB2	1.75	0.52
1:w:454:GLY:C	1:w:456:THR:H	2.17	0.52
1:x:442:TYR:HA	1:x:465:GLN:HE21	1.74	0.52
1:A:339:SER:HA	1:B:320:GLN:HE22	1.73	0.52
1:A:599:GLN:HE22	1:G:598:THR:HG21	1.73	0.52
1:C:454:GLY:O	1:C:455:THR:OG1	2.26	0.52
1:G:586:ARG:NH2	1:G:589:ARG:HE	2.07	0.52
1:H:598:THR:HG21	1:Y:599:GLN:HE22	1.73	0.52
1:O:441:GLN:O	1:O:465:GLN:NE2	2.39	0.52
1:O:586:ARG:NH2	1:O:589:ARG:HE	2.07	0.52
1:V:586:ARG:NH2	1:V:589:ARG:HE	2.07	0.52
1:X:320:GLN:HE22	1:Y:339:SER:HA	1.73	0.52
1:1:586:ARG:NH2	1:1:589:ARG:HE	2.07	0.52
1:5:586:ARG:NH2	1:5:589:ARG:HE	2.07	0.52
1:c:586:ARG:HE	1:c:588:ASN:HB2	1.75	0.52
1:g:442:TYR:HA	1:g:465:GLN:HE21	1.74	0.52
1:g:599:GLN:HE22	1:h:598:THR:HG21	1.73	0.52
1:t:599:GLN:HE22	1:u:598:THR:HG21	1.73	0.52
1:w:442:TYR:HA	1:w:465:GLN:HE21	1.74	0.52
1:w:586:ARG:HE	1:w:588:ASN:HB2	1.75	0.52
1:C:586:ARG:NH2	1:C:589:ARG:HE	2.07	0.52
1:I:320:GLN:HE22	1:J:339:SER:HA	1.73	0.52
1:I:442:TYR:HA	1:I:465:GLN:HE21	1.74	0.52
1:M:586:ARG:NH2	1:M:589:ARG:HE	2.07	0.52
1:Q:442:TYR:HA	1:Q:465:GLN:HE21	1.74	0.52
1:X:586:ARG:NH2	1:X:589:ARG:HE	2.07	0.52
1:5:325:THR:HB	1:5:332:THR:HB	1.92	0.52
1:5:454:GLY:C	1:5:456:THR:H	2.17	0.52
1:a:586:ARG:NH2	1:a:589:ARG:HE	2.07	0.52
1:e:586:ARG:NH2	1:e:589:ARG:HE	2.07	0.52
1:k:586:ARG:HE	1:k:588:ASN:HB2	1.75	0.52
1:o:441:GLN:O	1:o:465:GLN:NE2	2.39	0.52
1:o:586:ARG:NH2	1:o:589:ARG:HE	2.07	0.52
1:u:441:GLN:O	1:u:465:GLN:NE2	2.39	0.52
1:v:586:ARG:HE	1:v:588:ASN:HB2	1.75	0.52
1:7:586:ARG:NH2	1:7:589:ARG:HE	2.07	0.52
1:C:325:THR:HB	1:C:332:THR:HB	1.92	0.52
1:C:454:GLY:C	1:C:456:THR:H	2.17	0.52
1:L:454:GLY:C	1:L:456:THR:H	2.17	0.52
1:M:586:ARG:HE	1:M:588:ASN:HB2	1.75	0.52
1:O:339:SER:HA	1:3:320:GLN:HE22	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:586:ARG:HE	1:P:588:ASN:HB2	1.75	0.52
1:U:586:ARG:NH2	1:U:589:ARG:HE	2.07	0.52
1:V:454:GLY:C	1:V:456:THR:H	2.17	0.52
1:l:454:GLY:C	1:l:456:THR:H	2.17	0.52
1:r:454:GLY:C	1:r:456:THR:H	2.17	0.52
1:r:586:ARG:HE	1:r:588:ASN:HB2	1.75	0.52
1:u:454:GLY:C	1:u:456:THR:H	2.17	0.52
1:7:586:ARG:HE	1:7:588:ASN:HB2	1.75	0.52
1:E:325:THR:HB	1:E:332:THR:HB	1.92	0.52
1:J:454:GLY:C	1:J:456:THR:H	2.17	0.52
1:Q:586:ARG:NH2	1:Q:589:ARG:HE	2.07	0.52
1:R:586:ARG:NH2	1:R:589:ARG:HE	2.07	0.52
1:S:586:ARG:HE	1:S:588:ASN:HB2	1.75	0.52
1:S:586:ARG:NH2	1:S:589:ARG:HE	2.07	0.52
1:V:339:SER:HA	1:W:320:GLN:HE22	1.73	0.52
1:W:442:TYR:HA	1:W:465:GLN:HE21	1.74	0.52
1:4:454:GLY:C	1:4:456:THR:H	2.17	0.52
1:a:586:ARG:HE	1:a:588:ASN:HB2	1.75	0.52
1:f:436:ASN:ND2	1:f:439:ILE:HG12	2.25	0.52
1:g:436:ASN:ND2	1:g:439:ILE:HG12	2.25	0.52
1:k:454:GLY:C	1:k:456:THR:H	2.17	0.52
1:l:586:ARG:HE	1:l:588:ASN:HB2	1.75	0.52
1:s:454:GLY:C	1:s:456:THR:H	2.17	0.52
1:s:586:ARG:HE	1:s:588:ASN:HB2	1.75	0.52
1:x:325:THR:HB	1:x:332:THR:HB	1.92	0.52
1:E:436:ASN:ND2	1:E:439:ILE:HG12	2.25	0.52
1:E:454:GLY:C	1:E:456:THR:H	2.17	0.52
1:J:441:GLN:O	1:J:465:GLN:NE2	2.39	0.52
1:K:586:ARG:NH2	1:K:589:ARG:HE	2.07	0.52
1:W:586:ARG:NH2	1:W:589:ARG:HE	2.07	0.52
1:X:611:ASP:OD1	1:X:612:VAL:N	2.43	0.52
1:Y:586:ARG:NH2	1:Y:589:ARG:HE	2.07	0.52
1:0:586:ARG:NH2	1:0:589:ARG:HE	2.07	0.52
1:e:586:ARG:HE	1:e:588:ASN:HB2	1.75	0.52
1:g:325:THR:HB	1:g:332:THR:HB	1.92	0.52
1:n:436:ASN:ND2	1:n:439:ILE:HG12	2.25	0.52
1:w:586:ARG:NH2	1:w:589:ARG:HE	2.07	0.52
1:x:436:ASN:ND2	1:x:439:ILE:HG12	2.25	0.52
1:x:454:GLY:C	1:x:456:THR:H	2.17	0.52
1:y:454:GLY:C	1:y:456:THR:H	2.17	0.52
1:z:436:ASN:ND2	1:z:439:ILE:HG12	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:325:THR:HB	1:A:332:THR:HB	1.92	0.52
1:A:586:ARG:NH2	1:A:589:ARG:HE	2.07	0.52
1:B:611:ASP:OD1	1:B:612:VAL:N	2.43	0.52
1:C:436:ASN:ND2	1:C:439:ILE:HG12	2.25	0.52
1:C:611:ASP:OD1	1:C:612:VAL:N	2.43	0.52
1:G:436:ASN:ND2	1:G:439:ILE:HG12	2.25	0.52
1:H:454:GLY:C	1:H:456:THR:H	2.17	0.52
1:I:586:ARG:NH2	1:I:589:ARG:HE	2.07	0.52
1:J:611:ASP:OD1	1:J:612:VAL:N	2.43	0.52
1:M:325:THR:HB	1:M:332:THR:HB	1.92	0.52
1:T:436:ASN:ND2	1:T:439:ILE:HG12	2.25	0.52
1:T:586:ARG:HE	1:T:588:ASN:HB2	1.75	0.52
1:T:586:ARG:NH2	1:T:589:ARG:HE	2.07	0.52
1:V:611:ASP:OD1	1:V:612:VAL:N	2.43	0.52
1:Y:611:ASP:OD1	1:Y:612:VAL:N	2.43	0.52
1:1:320:GLN:HE22	1:i:339:SER:HA	1.73	0.52
1:2:325:THR:HB	1:2:332:THR:HB	1.92	0.52
1:2:436:ASN:ND2	1:2:439:ILE:HG12	2.25	0.52
1:2:586:ARG:HE	1:2:588:ASN:HB2	1.75	0.52
1:3:611:ASP:OD1	1:3:612:VAL:N	2.43	0.52
1:4:586:ARG:NH2	1:4:589:ARG:HE	2.07	0.52
1:5:436:ASN:ND2	1:5:439:ILE:HG12	2.25	0.52
1:a:325:THR:HB	1:a:332:THR:HB	1.92	0.52
1:e:325:THR:HB	1:e:332:THR:HB	1.92	0.52
1:e:436:ASN:ND2	1:e:439:ILE:HG12	2.25	0.52
1:g:586:ARG:NH2	1:g:589:ARG:HE	2.07	0.52
1:h:436:ASN:ND2	1:h:439:ILE:HG12	2.25	0.52
1:k:598:THR:HG21	1:m:599:GLN:HE22	1.73	0.52
1:m:586:ARG:NH2	1:m:589:ARG:HE	2.07	0.52
1:p:436:ASN:ND2	1:p:439:ILE:HG12	2.25	0.52
1:t:586:ARG:HE	1:t:588:ASN:HB2	1.75	0.52
1:y:611:ASP:OD1	1:y:612:VAL:N	2.43	0.52
1:6:586:ARG:NH2	1:6:589:ARG:HE	2.07	0.52
1:A:611:ASP:OD1	1:A:612:VAL:N	2.43	0.52
1:D:586:ARG:HE	1:D:588:ASN:HB2	1.75	0.52
1:F:586:ARG:HE	1:F:588:ASN:HB2	1.75	0.52
1:G:454:GLY:C	1:G:456:THR:H	2.17	0.52
1:H:436:ASN:ND2	1:H:439:ILE:HG12	2.25	0.52
1:L:325:THR:HB	1:L:332:THR:HB	1.92	0.52
1:L:586:ARG:NH2	1:L:589:ARG:HE	2.07	0.52
1:N:454:GLY:C	1:N:456:THR:H	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:442:TYR:HA	1:O:465:GLN:HE21	1.74	0.52
1:S:441:GLN:O	1:S:465:GLN:NE2	2.39	0.52
1:S:442:TYR:HA	1:S:465:GLN:HE21	1.74	0.52
1:U:611:ASP:OD1	1:U:612:VAL:N	2.43	0.52
1:Y:325:THR:HB	1:Y:332:THR:HB	1.92	0.52
1:Z:586:ARG:HE	1:Z:588:ASN:HB2	1.75	0.52
1:5:611:ASP:OD1	1:5:612:VAL:N	2.43	0.52
1:b:320:GLN:HE22	1:c:339:SER:HA	1.73	0.52
1:d:325:THR:HB	1:d:332:THR:HB	1.92	0.52
1:h:442:TYR:HA	1:h:465:GLN:HE21	1.73	0.52
1:h:586:ARG:HE	1:h:588:ASN:HB2	1.75	0.52
1:k:436:ASN:ND2	1:k:439:ILE:HG12	2.25	0.52
1:l:599:GLN:HE22	1:m:598:THR:HG21	1.73	0.52
1:n:325:THR:HB	1:n:332:THR:HB	1.92	0.52
1:n:442:TYR:HA	1:n:465:GLN:HE21	1.74	0.52
1:n:586:ARG:NH2	1:n:589:ARG:HE	2.07	0.52
1:p:325:THR:HB	1:p:332:THR:HB	1.92	0.52
1:q:599:GLN:HE22	1:r:598:THR:HG21	1.73	0.52
1:r:325:THR:HB	1:r:332:THR:HB	1.92	0.52
1:r:436:ASN:ND2	1:r:439:ILE:HG12	2.25	0.52
1:t:586:ARG:NH2	1:t:589:ARG:HE	2.07	0.52
1:u:586:ARG:NH2	1:u:589:ARG:HE	2.07	0.52
1:v:436:ASN:ND2	1:v:439:ILE:HG12	2.25	0.52
1:z:586:ARG:HE	1:z:588:ASN:HB2	1.75	0.52
1:6:436:ASN:ND2	1:6:439:ILE:HG12	2.25	0.52
1:6:586:ARG:HE	1:6:588:ASN:HB2	1.75	0.52
1:7:442:TYR:HA	1:7:465:GLN:HE21	1.74	0.52
1:A:586:ARG:HE	1:A:588:ASN:HB2	1.75	0.52
1:B:325:THR:HB	1:B:332:THR:HB	1.92	0.52
1:C:442:TYR:HA	1:C:465:GLN:HE21	1.74	0.52
1:I:436:ASN:ND2	1:I:439:ILE:HG12	2.25	0.52
1:K:611:ASP:OD1	1:K:612:VAL:N	2.43	0.52
1:O:454:GLY:C	1:O:456:THR:H	2.17	0.52
1:P:325:THR:HB	1:P:332:THR:HB	1.92	0.52
1:P:436:ASN:ND2	1:P:439:ILE:HG12	2.25	0.52
1:P:611:ASP:OD1	1:P:612:VAL:N	2.43	0.52
1:X:325:THR:HB	1:X:332:THR:HB	1.92	0.52
1:3:454:GLY:C	1:3:456:THR:H	2.17	0.52
1:4:325:THR:HB	1:4:332:THR:HB	1.92	0.52
1:c:441:GLN:O	1:c:465:GLN:NE2	2.39	0.52
1:h:325:THR:HB	1:h:332:THR:HB	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:586:ARG:NH2	1:h:589:ARG:HE	2.07	0.52
1:h:611:ASP:OD1	1:h:612:VAL:N	2.43	0.52
1:j:436:ASN:ND2	1:j:439:ILE:HG12	2.25	0.52
1:k:325:THR:HB	1:k:332:THR:HB	1.92	0.52
1:l:436:ASN:ND2	1:l:439:ILE:HG12	2.25	0.52
1:m:454:GLY:C	1:m:456:THR:H	2.17	0.52
1:n:611:ASP:OD1	1:n:612:VAL:N	2.43	0.52
1:o:442:TYR:HA	1:o:465:GLN:HE21	1.74	0.52
1:o:611:ASP:OD1	1:o:612:VAL:N	2.43	0.52
1:p:586:ARG:NH2	1:p:589:ARG:HE	2.07	0.52
1:q:454:GLY:C	1:q:456:THR:H	2.17	0.52
1:q:586:ARG:NH2	1:q:589:ARG:HE	2.07	0.52
1:s:436:ASN:ND2	1:s:439:ILE:HG12	2.25	0.52
1:t:325:THR:HB	1:t:332:THR:HB	1.92	0.52
1:u:325:THR:HB	1:u:332:THR:HB	1.92	0.52
1:v:611:ASP:OD1	1:v:612:VAL:N	2.43	0.52
1:D:325:THR:HB	1:D:332:THR:HB	1.92	0.51
1:D:436:ASN:ND2	1:D:439:ILE:HG12	2.25	0.51
1:D:586:ARG:NH2	1:D:589:ARG:HE	2.07	0.51
1:N:325:THR:HB	1:N:332:THR:HB	1.92	0.51
1:O:611:ASP:OD1	1:O:612:VAL:N	2.43	0.51
1:V:441:GLN:O	1:V:465:GLN:NE2	2.39	0.51
1:W:436:ASN:ND2	1:W:439:ILE:HG12	2.25	0.51
1:X:436:ASN:ND2	1:X:439:ILE:HG12	2.25	0.51
1:Z:436:ASN:ND2	1:Z:439:ILE:HG12	2.25	0.51
1:b:586:ARG:HE	1:b:588:ASN:HB2	1.75	0.51
1:c:325:THR:HB	1:c:332:THR:HB	1.92	0.51
1:f:586:ARG:HE	1:f:588:ASN:HB2	1.75	0.51
1:i:325:THR:HB	1:i:332:THR:HB	1.92	0.51
1:j:325:THR:HB	1:j:332:THR:HB	1.92	0.51
1:n:586:ARG:HE	1:n:588:ASN:HB2	1.75	0.51
1:o:454:GLY:C	1:o:456:THR:H	2.17	0.51
1:p:611:ASP:OD1	1:p:612:VAL:N	2.43	0.51
1:v:325:THR:HB	1:v:332:THR:HB	1.92	0.51
1:A:436:ASN:ND2	1:A:439:ILE:HG12	2.25	0.51
1:B:436:ASN:ND2	1:B:439:ILE:HG12	2.25	0.51
1:E:611:ASP:OD1	1:E:612:VAL:N	2.43	0.51
1:F:436:ASN:ND2	1:F:439:ILE:HG12	2.25	0.51
1:I:325:THR:HB	1:I:332:THR:HB	1.92	0.51
1:L:436:ASN:ND2	1:L:439:ILE:HG12	2.25	0.51
1:M:442:TYR:HA	1:M:465:GLN:HE21	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:436:ASN:ND2	1:N:439:ILE:HG12	2.25	0.51
1:N:586:ARG:NH2	1:N:589:ARG:HE	2.07	0.51
1:P:442:TYR:HA	1:P:465:GLN:HE21	1.74	0.51
1:R:325:THR:HB	1:R:332:THR:HB	1.92	0.51
1:S:325:THR:HB	1:S:332:THR:HB	1.92	0.51
1:W:325:THR:HB	1:W:332:THR:HB	1.92	0.51
1:Y:586:ARG:HE	1:Y:588:ASN:HB2	1.75	0.51
1:1:436:ASN:ND2	1:1:439:ILE:HG12	2.25	0.51
1:1:586:ARG:HE	1:1:588:ASN:HB2	1.75	0.51
1:4:436:ASN:ND2	1:4:439:ILE:HG12	2.25	0.51
1:b:436:ASN:ND2	1:b:439:ILE:HG12	2.25	0.51
1:d:436:ASN:ND2	1:d:439:ILE:HG12	2.25	0.51
1:g:611:ASP:OD1	1:g:612:VAL:N	2.43	0.51
1:o:586:ARG:HE	1:o:588:ASN:HB2	1.75	0.51
1:u:436:ASN:ND2	1:u:439:ILE:HG12	2.25	0.51
1:x:611:ASP:OD1	1:x:612:VAL:N	2.43	0.51
1:7:325:THR:HB	1:7:332:THR:HB	1.92	0.51
1:7:441:GLN:O	1:7:465:GLN:NE2	2.39	0.51
1:B:441:GLN:O	1:B:465:GLN:NE2	2.39	0.51
1:K:325:THR:HB	1:K:332:THR:HB	1.92	0.51
1:M:436:ASN:ND2	1:M:439:ILE:HG12	2.25	0.51
1:O:436:ASN:ND2	1:O:439:ILE:HG12	2.25	0.51
1:O:586:ARG:HE	1:O:588:ASN:HB2	1.75	0.51
1:U:325:THR:HB	1:U:332:THR:HB	1.92	0.51
1:Y:436:ASN:ND2	1:Y:439:ILE:HG12	2.25	0.51
1:0:325:THR:HB	1:0:332:THR:HB	1.92	0.51
1:4:586:ARG:HE	1:4:588:ASN:HB2	1.75	0.51
1:5:442:TYR:HA	1:5:465:GLN:HE21	1.74	0.51
1:a:436:ASN:ND2	1:a:439:ILE:HG12	2.25	0.51
1:k:586:ARG:NH2	1:k:589:ARG:HE	2.07	0.51
1:o:436:ASN:ND2	1:o:439:ILE:HG12	2.25	0.51
1:p:586:ARG:HE	1:p:588:ASN:HB2	1.75	0.51
1:q:598:THR:HG21	1:s:599:GLN:HE22	1.73	0.51
1:r:611:ASP:OD1	1:r:612:VAL:N	2.43	0.51
1:t:436:ASN:ND2	1:t:439:ILE:HG12	2.25	0.51
1:y:436:ASN:ND2	1:y:439:ILE:HG12	2.25	0.51
1:D:611:ASP:OD1	1:D:612:VAL:N	2.43	0.51
1:N:586:ARG:HE	1:N:588:ASN:HB2	1.75	0.51
1:O:381:LEU:HG	1:h:428:SER:O	2.10	0.51
1:R:611:ASP:OD1	1:R:612:VAL:N	2.43	0.51
1:S:454:GLY:C	1:S:456:THR:H	2.17	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:586:ARG:NH2	1:Z:589:ARG:HE	2.07	0.51
1:3:436:ASN:ND2	1:3:439:ILE:HG12	2.25	0.51
1:g:586:ARG:HE	1:g:588:ASN:HB2	1.75	0.51
1:k:611:ASP:OD1	1:k:612:VAL:N	2.43	0.51
1:l:325:THR:HB	1:l:332:THR:HB	1.92	0.51
1:r:586:ARG:NH2	1:r:589:ARG:HE	2.07	0.51
1:s:325:THR:HB	1:s:332:THR:HB	1.92	0.51
1:t:611:ASP:OD1	1:t:612:VAL:N	2.43	0.51
1:v:442:TYR:HA	1:v:465:GLN:HE21	1.74	0.51
1:7:454:GLY:C	1:7:456:THR:H	2.17	0.51
1:E:381:LEU:HG	1:F:428:SER:O	2.11	0.51
1:L:611:ASP:OD1	1:L:612:VAL:N	2.43	0.51
1:S:436:ASN:ND2	1:S:439:ILE:HG12	2.25	0.51
1:Z:428:SER:O	1:x:381:LEU:HG	2.11	0.51
1:0:611:ASP:OD1	1:0:612:VAL:N	2.43	0.51
1:2:428:SER:O	1:i:381:LEU:HG	2.11	0.51
1:2:441:GLN:O	1:2:465:GLN:NE2	2.39	0.51
1:4:611:ASP:OD1	1:4:612:VAL:N	2.43	0.51
1:a:442:TYR:HA	1:a:465:GLN:HE21	1.74	0.51
1:b:611:ASP:OD1	1:b:612:VAL:N	2.43	0.51
1:c:381:LEU:HG	1:e:428:SER:O	2.11	0.51
1:u:586:ARG:HE	1:u:588:ASN:HB2	1.75	0.51
1:7:436:ASN:ND2	1:7:439:ILE:HG12	2.25	0.51
1:E:428:SER:O	1:Q:381:LEU:HG	2.11	0.51
1:F:586:ARG:NH2	1:F:589:ARG:HE	2.07	0.51
1:G:325:THR:HB	1:G:332:THR:HB	1.92	0.51
1:H:325:THR:HB	1:H:332:THR:HB	1.92	0.51
1:I:451:THR:HG21	1:I:460:ARG:HH21	1.76	0.51
1:J:586:ARG:HE	1:J:588:ASN:HB2	1.75	0.51
1:V:586:ARG:HE	1:V:588:ASN:HB2	1.75	0.51
1:X:441:GLN:O	1:X:465:GLN:NE2	2.39	0.51
1:1:325:THR:HB	1:1:332:THR:HB	1.92	0.51
1:1:611:ASP:OD1	1:1:612:VAL:N	2.43	0.51
1:m:325:THR:HB	1:m:332:THR:HB	1.92	0.51
1:q:325:THR:HB	1:q:332:THR:HB	1.92	0.51
1:u:611:ASP:OD1	1:u:612:VAL:N	2.43	0.51
1:w:381:LEU:HG	1:x:428:SER:O	2.11	0.51
1:y:586:ARG:HE	1:y:588:ASN:HB2	1.75	0.51
1:E:586:ARG:NH2	1:E:589:ARG:HE	2.07	0.51
1:L:586:ARG:HE	1:L:588:ASN:HB2	1.75	0.51
1:N:611:ASP:OD1	1:N:612:VAL:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:441:GLN:O	1:P:465:GLN:NE2	2.39	0.51
1:b:325:THR:HB	1:b:332:THR:HB	1.92	0.51
1:d:586:ARG:NH2	1:d:589:ARG:HE	2.07	0.51
1:d:611:ASP:OD1	1:d:612:VAL:N	2.43	0.51
1:e:611:ASP:OD1	1:e:612:VAL:N	2.43	0.51
1:j:586:ARG:NH2	1:j:589:ARG:HE	2.07	0.51
1:j:611:ASP:OD1	1:j:612:VAL:N	2.43	0.51
1:n:449:THR:HG21	1:o:501:TYR:CZ	2.46	0.51
1:o:325:THR:HB	1:o:332:THR:HB	1.92	0.51
1:v:454:GLY:C	1:v:456:THR:H	2.17	0.51
1:x:586:ARG:NH2	1:x:589:ARG:HE	2.07	0.51
1:A:381:LEU:HG	1:I:428:SER:O	2.11	0.51
1:B:428:SER:O	1:J:381:LEU:HG	2.11	0.51
1:F:325:THR:HB	1:F:332:THR:HB	1.92	0.51
1:J:451:THR:HG21	1:J:460:ARG:HH21	1.76	0.51
1:M:454:GLY:C	1:M:456:THR:H	2.17	0.51
1:O:325:THR:HB	1:O:332:THR:HB	1.92	0.51
1:P:454:GLY:C	1:P:456:THR:H	2.17	0.51
1:Q:436:ASN:ND2	1:Q:439:ILE:HG12	2.25	0.51
1:V:381:LEU:HG	1:X:428:SER:O	2.11	0.51
1:V:451:THR:HG21	1:V:460:ARG:HH21	1.76	0.51
1:W:428:SER:O	1:Y:381:LEU:HG	2.11	0.51
1:W:451:THR:HG21	1:W:460:ARG:HH21	1.76	0.51
1:Z:325:THR:HB	1:Z:332:THR:HB	1.92	0.51
1:0:451:THR:HG21	1:0:460:ARG:HH21	1.76	0.51
1:2:501:TYR:CZ	1:j:449:THR:HG21	2.46	0.51
1:2:611:ASP:OD1	1:2:612:VAL:N	2.43	0.51
1:3:586:ARG:HE	1:3:588:ASN:HB2	1.75	0.51
1:a:454:GLY:C	1:a:456:THR:H	2.17	0.51
1:e:441:GLN:O	1:e:465:GLN:NE2	2.39	0.51
1:n:350:GLN:HG2	1:p:693:LYS:HG2	1.93	0.51
1:n:428:SER:O	1:o:381:LEU:HG	2.11	0.51
1:s:611:ASP:OD1	1:s:612:VAL:N	2.43	0.51
1:v:441:GLN:O	1:v:465:GLN:NE2	2.39	0.51
1:w:436:ASN:ND2	1:w:439:ILE:HG12	2.25	0.51
1:6:451:THR:HG21	1:6:460:ARG:HH21	1.76	0.51
1:C:586:ARG:HE	1:C:588:ASN:HB2	1.75	0.51
1:F:454:GLY:C	1:F:456:THR:H	2.17	0.51
1:H:586:ARG:HE	1:H:588:ASN:HB2	1.75	0.51
1:R:451:THR:HG21	1:R:460:ARG:HH21	1.76	0.51
1:S:611:ASP:OD1	1:S:612:VAL:N	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:451:THR:HG21	1:T:460:ARG:HH21	1.76	0.51
1:V:325:THR:HB	1:V:332:THR:HB	1.92	0.51
1:X:454:GLY:C	1:X:456:THR:H	2.17	0.51
1:Z:454:GLY:C	1:Z:456:THR:H	2.17	0.51
1:5:586:ARG:HE	1:5:588:ASN:HB2	1.75	0.51
1:c:428:SER:O	1:d:381:LEU:HG	2.11	0.51
1:d:449:THR:HG21	1:e:501:TYR:CZ	2.46	0.51
1:m:451:THR:HG21	1:m:460:ARG:HH21	1.76	0.51
1:p:451:THR:HG21	1:p:460:ARG:HH21	1.76	0.51
1:q:451:THR:HG21	1:q:460:ARG:HH21	1.76	0.51
1:C:428:SER:O	1:1:381:LEU:HG	2.11	0.51
1:D:428:SER:O	1:N:381:LEU:HG	2.11	0.51
1:L:451:THR:HG21	1:L:460:ARG:HH21	1.76	0.51
1:O:428:SER:O	1:g:381:LEU:HG	2.11	0.51
1:T:325:THR:HB	1:T:332:THR:HB	1.92	0.51
1:Z:611:ASP:OD1	1:Z:612:VAL:N	2.43	0.51
1:4:451:THR:HG21	1:4:460:ARG:HH21	1.76	0.51
1:5:428:SER:O	1:b:381:LEU:HG	2.11	0.51
1:5:449:THR:HG21	1:b:501:TYR:CZ	2.46	0.51
1:g:451:THR:HG21	1:g:460:ARG:HH21	1.76	0.51
1:h:451:THR:HG21	1:h:460:ARG:HH21	1.76	0.51
1:i:428:SER:O	1:j:381:LEU:HG	2.11	0.51
1:l:611:ASP:OD1	1:l:612:VAL:N	2.43	0.51
1:n:454:GLY:C	1:n:456:THR:H	2.17	0.51
1:o:428:SER:O	1:p:381:LEU:HG	2.10	0.51
1:6:325:THR:HB	1:6:332:THR:HB	1.92	0.51
1:7:611:ASP:OD1	1:7:612:VAL:N	2.43	0.51
1:B:454:GLY:C	1:B:456:THR:H	2.17	0.50
1:C:381:LEU:HG	1:M:428:SER:O	2.11	0.50
1:C:449:THR:HG21	1:1:501:TYR:CZ	2.46	0.50
1:F:381:LEU:HG	1:Q:428:SER:O	2.11	0.50
1:F:611:ASP:OD1	1:F:612:VAL:N	2.43	0.50
1:G:449:THR:HG21	1:I:501:TYR:CZ	2.47	0.50
1:H:449:THR:HG21	1:W:501:TYR:CZ	2.47	0.50
1:I:454:GLY:O	1:I:455:THR:OG1	2.26	0.50
1:J:325:THR:HB	1:J:332:THR:HB	1.92	0.50
1:K:451:THR:HG21	1:K:460:ARG:HH21	1.76	0.50
1:T:501:TYR:CZ	1:f:449:THR:HG21	2.47	0.50
1:U:586:ARG:HE	1:U:588:ASN:HB2	1.75	0.50
1:V:449:THR:HG21	1:4:501:TYR:CZ	2.46	0.50
1:Z:381:LEU:HG	1:w:428:SER:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:693:LYS:HG2	1:i:350:GLN:HG2	1.93	0.50
1:5:381:LEU:HG	1:a:428:SER:O	2.11	0.50
1:a:451:THR:HG21	1:a:460:ARG:HH21	1.76	0.50
1:c:350:GLN:HG2	1:e:693:LYS:HG2	1.93	0.50
1:c:611:ASP:OD1	1:c:612:VAL:N	2.43	0.50
1:h:454:GLY:C	1:h:456:THR:H	2.17	0.50
1:k:449:THR:HG21	1:l:501:TYR:CZ	2.47	0.50
1:o:449:THR:HG21	1:p:501:TYR:CZ	2.46	0.50
1:q:381:LEU:HG	1:s:428:SER:O	2.11	0.50
1:t:428:SER:O	1:u:381:LEU:HG	2.11	0.50
1:A:428:SER:O	1:G:381:LEU:HG	2.11	0.50
1:D:451:THR:HG21	1:D:460:ARG:HH21	1.76	0.50
1:I:454:GLY:C	1:I:456:THR:H	2.17	0.50
1:J:295:ARG:NE	1:K:698:GLU:HG2	2.27	0.50
1:J:449:THR:HG21	1:L:501:TYR:CZ	2.46	0.50
1:M:451:THR:HG21	1:M:460:ARG:HH21	1.76	0.50
1:N:693:LYS:HG2	1:P:350:GLN:HG2	1.93	0.50
1:O:449:THR:HG21	1:g:501:TYR:CZ	2.46	0.50
1:O:454:GLY:O	1:O:455:THR:OG1	2.26	0.50
1:P:451:THR:HG22	1:P:462:GLN:HE22	1.77	0.50
1:R:436:ASN:ND2	1:R:439:ILE:HG12	2.25	0.50
1:T:428:SER:O	1:3:381:LEU:HG	2.11	0.50
1:U:451:THR:HG21	1:U:460:ARG:HH21	1.76	0.50
1:U:698:GLU:HG2	1:V:295:ARG:NE	2.27	0.50
1:V:454:GLY:O	1:V:455:THR:OG1	2.26	0.50
1:W:454:GLY:C	1:W:456:THR:H	2.17	0.50
1:W:454:GLY:O	1:W:455:THR:OG1	2.26	0.50
1:3:451:THR:HG21	1:3:460:ARG:HH21	1.76	0.50
1:5:693:LYS:HG2	1:b:350:GLN:HG2	1.93	0.50
1:a:381:LEU:HG	1:b:428:SER:O	2.11	0.50
1:m:611:ASP:OD1	1:m:612:VAL:N	2.43	0.50
1:n:451:THR:HG21	1:n:460:ARG:HH21	1.76	0.50
1:p:451:THR:HG22	1:p:462:GLN:HE22	1.77	0.50
1:q:436:ASN:ND2	1:q:439:ILE:HG12	2.25	0.50
1:r:449:THR:HG21	1:s:501:TYR:CZ	2.47	0.50
1:v:451:THR:HG22	1:v:462:GLN:HE22	1.77	0.50
1:z:449:THR:HG21	1:6:501:TYR:CZ	2.47	0.50
1:A:295:ARG:NE	1:F:698:GLU:HG2	2.27	0.50
1:A:350:GLN:HG2	1:I:693:LYS:HG2	1.93	0.50
1:A:449:THR:HG21	1:G:501:TYR:CZ	2.47	0.50
1:B:381:LEU:HG	1:L:428:SER:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:693:LYS:HG2	1:1:350:GLN:HG2	1.93	0.50
1:E:449:THR:HG21	1:Q:501:TYR:CZ	2.46	0.50
1:G:586:ARG:HE	1:G:588:ASN:HB2	1.75	0.50
1:H:381:LEU:HG	1:Y:428:SER:O	2.11	0.50
1:H:501:TYR:CZ	1:Y:449:THR:HG21	2.47	0.50
1:M:381:LEU:HG	1:1:428:SER:O	2.12	0.50
1:O:501:TYR:CZ	1:h:449:THR:HG21	2.47	0.50
1:P:495:ASP:OD2	1:P:533:LYS:NZ	2.34	0.50
1:Q:611:ASP:OD1	1:Q:612:VAL:N	2.43	0.50
1:R:451:THR:HG22	1:R:462:GLN:HE22	1.77	0.50
1:R:586:ARG:HE	1:R:588:ASN:HB2	1.75	0.50
1:V:451:THR:HG22	1:V:462:GLN:HE22	1.77	0.50
1:X:501:TYR:CZ	1:4:449:THR:HG21	2.46	0.50
1:Z:451:THR:HG21	1:Z:460:ARG:HH21	1.76	0.50
1:0:451:THR:HG22	1:0:462:GLN:HE22	1.77	0.50
1:1:441:GLN:O	1:1:465:GLN:NE2	2.39	0.50
1:1:451:THR:HG21	1:1:460:ARG:HH21	1.76	0.50
1:c:451:THR:HG21	1:c:460:ARG:HH21	1.76	0.50
1:c:454:GLY:O	1:c:455:THR:OG1	2.26	0.50
1:g:451:THR:HG22	1:g:462:GLN:HE22	1.77	0.50
1:i:451:THR:HG22	1:i:462:GLN:HE22	1.77	0.50
1:i:611:ASP:OD1	1:i:612:VAL:N	2.43	0.50
1:k:451:THR:HG22	1:k:462:GLN:HE22	1.77	0.50
1:l:428:SER:O	1:m:381:LEU:HG	2.11	0.50
1:m:436:ASN:ND2	1:m:439:ILE:HG12	2.25	0.50
1:q:611:ASP:OD1	1:q:612:VAL:N	2.43	0.50
1:t:451:THR:HG21	1:t:460:ARG:HH21	1.76	0.50
1:u:693:LYS:HG2	1:v:350:GLN:HG2	1.93	0.50
1:w:611:ASP:OD1	1:w:612:VAL:N	2.43	0.50
1:y:381:LEU:HG	1:6:428:SER:O	2.11	0.50
1:y:451:THR:HG21	1:y:460:ARG:HH21	1.76	0.50
1:A:693:LYS:HG2	1:G:350:GLN:HG2	1.94	0.50
1:C:698:GLU:HG2	1:L:295:ARG:NE	2.26	0.50
1:E:295:ARG:NE	1:P:698:GLU:HG2	2.26	0.50
1:E:350:GLN:HG2	1:F:693:LYS:HG2	1.93	0.50
1:F:451:THR:HG21	1:F:460:ARG:HH21	1.76	0.50
1:F:501:TYR:CZ	1:Q:449:THR:HG21	2.46	0.50
1:G:611:ASP:OD1	1:G:612:VAL:N	2.43	0.50
1:H:611:ASP:OD1	1:H:612:VAL:N	2.43	0.50
1:J:428:SER:O	1:L:381:LEU:HG	2.11	0.50
1:J:451:THR:HG22	1:J:462:GLN:HE22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:350:GLN:HG2	1:7:693:LYS:HG2	1.93	0.50
1:K:428:SER:O	1:0:381:LEU:HG	2.11	0.50
1:K:586:ARG:HE	1:K:588:ASN:HB2	1.75	0.50
1:L:424:SER:O	1:L:730:ARG:HA	2.12	0.50
1:Q:451:THR:HG21	1:Q:460:ARG:HH21	1.76	0.50
1:Y:295:ARG:NE	1:Z:698:GLU:HG2	2.27	0.50
1:Z:693:LYS:HG2	1:x:350:GLN:HG2	1.93	0.50
1:0:436:ASN:ND2	1:0:439:ILE:HG12	2.25	0.50
1:1:295:ARG:NE	1:2:698:GLU:HG2	2.27	0.50
1:1:698:GLU:HG2	1:2:295:ARG:NE	2.26	0.50
1:2:381:LEU:HG	1:j:428:SER:O	2.11	0.50
1:4:295:ARG:NE	1:5:698:GLU:HG2	2.26	0.50
1:5:350:GLN:HG2	1:a:693:LYS:HG2	1.94	0.50
1:b:451:THR:HG21	1:b:460:ARG:HH21	1.76	0.50
1:c:451:THR:HG22	1:c:462:GLN:HE22	1.77	0.50
1:d:424:SER:O	1:d:730:ARG:HA	2.12	0.50
1:d:428:SER:O	1:e:381:LEU:HG	2.11	0.50
1:d:451:THR:HG22	1:d:462:GLN:HE22	1.77	0.50
1:e:451:THR:HG21	1:e:460:ARG:HH21	1.76	0.50
1:f:325:THR:HB	1:f:332:THR:HB	1.92	0.50
1:g:693:LYS:HG2	1:h:350:GLN:HG2	1.94	0.50
1:i:441:GLN:O	1:i:465:GLN:NE2	2.39	0.50
1:i:451:THR:HG21	1:i:460:ARG:HH21	1.76	0.50
1:i:693:LYS:HG2	1:j:350:GLN:HG2	1.94	0.50
1:j:424:SER:O	1:j:730:ARG:HA	2.12	0.50
1:j:451:THR:HG22	1:j:462:GLN:HE22	1.77	0.50
1:m:586:ARG:HE	1:m:588:ASN:HB2	1.75	0.50
1:n:501:TYR:CZ	1:p:449:THR:HG21	2.45	0.50
1:q:586:ARG:HE	1:q:588:ASN:HB2	1.75	0.50
1:s:451:THR:HG22	1:s:462:GLN:HE22	1.77	0.50
1:t:381:LEU:HG	1:v:428:SER:O	2.11	0.50
1:w:350:GLN:HG2	1:x:693:LYS:HG2	1.93	0.50
1:w:501:TYR:CZ	1:x:449:THR:HG21	2.46	0.50
1:z:451:THR:HG21	1:z:460:ARG:HH21	1.76	0.50
1:B:501:TYR:CZ	1:L:449:THR:HG21	2.46	0.50
1:C:350:GLN:HG2	1:M:693:LYS:HG2	1.94	0.50
1:D:381:LEU:HG	1:P:428:SER:O	2.11	0.50
1:E:693:LYS:HG2	1:Q:350:GLN:HG2	1.93	0.50
1:H:350:GLN:HG2	1:Y:693:LYS:HG2	1.94	0.50
1:K:451:THR:HG22	1:K:462:GLN:HE22	1.77	0.50
1:N:698:GLU:HG2	1:O:295:ARG:NE	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:424:SER:O	1:P:730:ARG:HA	2.12	0.50
1:R:350:GLN:HG2	1:U:693:LYS:HG2	1.94	0.50
1:R:381:LEU:HG	1:U:428:SER:O	2.11	0.50
1:R:449:THR:HG21	1:S:501:TYR:CZ	2.47	0.50
1:T:611:ASP:OD1	1:T:612:VAL:N	2.43	0.50
1:W:693:LYS:HG2	1:Y:350:GLN:HG2	1.94	0.50
1:X:381:LEU:HG	1:4:428:SER:O	2.11	0.50
1:Z:501:TYR:CZ	1:w:449:THR:HG21	2.46	0.50
1:0:449:THR:HG21	1:7:501:TYR:CZ	2.47	0.50
1:0:586:ARG:HE	1:0:588:ASN:HB2	1.75	0.50
1:2:449:THR:HG21	1:i:501:TYR:CZ	2.46	0.50
1:2:451:THR:HG21	1:2:460:ARG:HH21	1.76	0.50
1:4:424:SER:O	1:4:730:ARG:HA	2.12	0.50
1:5:451:THR:HG22	1:5:462:GLN:HE22	1.77	0.50
1:a:424:SER:O	1:a:730:ARG:HA	2.12	0.50
1:b:295:ARG:NE	1:e:698:GLU:HG2	2.27	0.50
1:b:698:GLU:HG2	1:e:295:ARG:NE	2.26	0.50
1:c:449:THR:HG21	1:d:501:TYR:CZ	2.46	0.50
1:c:501:TYR:CZ	1:e:449:THR:HG21	2.46	0.50
1:c:698:GLU:HG2	1:f:295:ARG:NE	2.27	0.50
1:d:295:ARG:NE	1:q:698:GLU:HG2	2.26	0.50
1:g:295:ARG:NE	1:l:698:GLU:HG2	2.27	0.50
1:i:454:GLY:O	1:i:455:THR:OG1	2.26	0.50
1:i:698:GLU:HG2	1:z:295:ARG:NE	2.27	0.50
1:o:454:GLY:O	1:o:455:THR:OG1	2.26	0.50
1:w:451:THR:HG21	1:w:460:ARG:HH21	1.76	0.50
1:z:325:THR:HB	1:z:332:THR:HB	1.92	0.50
1:B:693:LYS:HG2	1:J:350:GLN:HG2	1.94	0.50
1:G:428:SER:O	1:I:381:LEU:HG	2.11	0.50
1:G:451:THR:HG22	1:G:462:GLN:HE22	1.77	0.50
1:G:698:GLU:HG2	1:H:295:ARG:NE	2.27	0.50
1:K:424:SER:O	1:K:730:ARG:HA	2.12	0.50
1:K:436:ASN:ND2	1:K:439:ILE:HG12	2.25	0.50
1:O:451:THR:HG21	1:O:460:ARG:HH21	1.76	0.50
1:S:295:ARG:NE	1:T:698:GLU:HG2	2.27	0.50
1:S:428:SER:O	1:U:381:LEU:HG	2.11	0.50
1:S:693:LYS:HG2	1:U:350:GLN:HG2	1.94	0.50
1:U:424:SER:O	1:U:730:ARG:HA	2.12	0.50
1:U:436:ASN:ND2	1:U:439:ILE:HG12	2.25	0.50
1:U:451:THR:HG22	1:U:462:GLN:HE22	1.77	0.50
1:V:350:GLN:HG2	1:X:693:LYS:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:428:SER:O	1:4:381:LEU:HG	2.11	0.50
1:V:436:ASN:ND2	1:V:439:ILE:HG12	2.25	0.50
1:W:586:ARG:HE	1:W:588:ASN:HB2	1.75	0.50
1:3:325:THR:HB	1:3:332:THR:HB	1.92	0.50
1:b:441:GLN:O	1:b:465:GLN:NE2	2.39	0.50
1:c:693:LYS:HG2	1:d:350:GLN:HG2	1.94	0.50
1:f:451:THR:HG21	1:f:460:ARG:HH21	1.76	0.50
1:i:436:ASN:ND2	1:i:439:ILE:HG12	2.25	0.50
1:i:449:THR:HG21	1:j:501:TYR:CZ	2.46	0.50
1:p:655:PRO:HD2	1:u:676:THR:HG21	1.94	0.50
1:v:424:SER:O	1:v:730:ARG:HA	2.12	0.50
1:v:698:GLU:HG2	1:x:295:ARG:NE	2.26	0.50
1:w:325:THR:HB	1:w:332:THR:HB	1.92	0.50
1:z:611:ASP:OD1	1:z:612:VAL:N	2.43	0.50
1:6:451:THR:HG22	1:6:462:GLN:HE22	1.77	0.50
1:C:451:THR:HG22	1:C:462:GLN:HE22	1.77	0.50
1:C:501:TYR:CZ	1:M:449:THR:HG21	2.47	0.50
1:G:295:ARG:NE	1:H:698:GLU:HG2	2.27	0.50
1:H:428:SER:O	1:W:381:LEU:HG	2.11	0.50
1:H:451:THR:HG21	1:H:460:ARG:HH21	1.76	0.50
1:H:451:THR:HG22	1:H:462:GLN:HE22	1.77	0.50
1:I:424:SER:O	1:I:730:ARG:HA	2.12	0.50
1:K:381:LEU:HG	1:7:428:SER:O	2.11	0.50
1:K:693:LYS:HG2	1:0:350:GLN:HG2	1.94	0.50
1:M:424:SER:O	1:M:730:ARG:HA	2.12	0.50
1:Q:698:GLU:HG2	1:R:295:ARG:NE	2.27	0.50
1:R:693:LYS:HG2	1:S:350:GLN:HG2	1.94	0.50
1:S:424:SER:O	1:S:730:ARG:HA	2.12	0.50
1:S:698:GLU:HG2	1:T:295:ARG:NE	2.27	0.50
1:T:451:THR:HG22	1:T:462:GLN:HE22	1.77	0.50
1:V:424:SER:O	1:V:730:ARG:HA	2.12	0.50
1:2:424:SER:O	1:2:730:ARG:HA	2.12	0.50
1:5:451:THR:HG21	1:5:460:ARG:HH21	1.76	0.50
1:5:501:TYR:CZ	1:a:449:THR:HG21	2.47	0.50
1:c:436:ASN:ND2	1:c:439:ILE:HG12	2.25	0.50
1:d:698:GLU:HG2	1:q:295:ARG:NE	2.27	0.50
1:j:295:ARG:NE	1:m:698:GLU:HG2	2.26	0.50
1:k:350:GLN:HG2	1:m:693:LYS:HG2	1.94	0.50
1:l:451:THR:HG22	1:l:462:GLN:HE22	1.77	0.50
1:n:381:LEU:HG	1:p:428:SER:O	2.11	0.50
1:o:295:ARG:NE	1:u:698:GLU:HG2	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:693:LYS:HG2	1:r:350:GLN:HG2	1.94	0.50
1:r:451:THR:HG22	1:r:462:GLN:HE22	1.77	0.50
1:r:454:GLY:O	1:r:455:THR:OG1	2.26	0.50
1:y:325:THR:HB	1:y:332:THR:HB	1.92	0.50
1:6:611:ASP:OD1	1:6:612:VAL:N	2.43	0.50
1:6:698:GLU:HG2	1:7:295:ARG:NE	2.27	0.50
1:A:501:TYR:CZ	1:I:449:THR:HG21	2.47	0.50
1:A:698:GLU:HG2	1:F:295:ARG:NE	2.26	0.50
1:B:449:THR:HG21	1:J:501:TYR:CZ	2.46	0.50
1:D:698:GLU:HG2	1:M:295:ARG:NE	2.27	0.50
1:E:441:GLN:O	1:E:465:GLN:NE2	2.39	0.50
1:F:424:SER:O	1:F:730:ARG:HA	2.12	0.50
1:F:441:GLN:O	1:F:465:GLN:NE2	2.39	0.50
1:G:451:THR:HG21	1:G:460:ARG:HH21	1.76	0.50
1:I:611:ASP:OD1	1:I:612:VAL:N	2.43	0.50
1:J:436:ASN:ND2	1:J:439:ILE:HG12	2.25	0.50
1:J:693:LYS:HG2	1:L:350:GLN:HG2	1.93	0.50
1:M:451:THR:HG22	1:M:462:GLN:HE22	1.77	0.50
1:O:451:THR:HG22	1:O:462:GLN:HE22	1.77	0.50
1:Q:325:THR:HB	1:Q:332:THR:HB	1.92	0.50
1:T:381:LEU:HG	1:f:428:SER:O	2.11	0.50
1:V:501:TYR:CZ	1:X:449:THR:HG21	2.46	0.50
1:W:424:SER:O	1:W:730:ARG:HA	2.12	0.50
1:W:449:THR:HG21	1:Y:501:TYR:CZ	2.47	0.50
1:W:611:ASP:OD1	1:W:612:VAL:N	2.43	0.50
1:Z:424:SER:O	1:Z:730:ARG:HA	2.12	0.50
1:Z:441:GLN:O	1:Z:465:GLN:NE2	2.39	0.50
1:0:693:LYS:HG2	1:7:350:GLN:HG2	1.94	0.50
1:1:451:THR:HG22	1:1:462:GLN:HE22	1.77	0.50
1:a:295:ARG:NE	1:t:698:GLU:HG2	2.27	0.50
1:b:451:THR:HG22	1:b:462:GLN:HE22	1.77	0.50
1:d:586:ARG:HE	1:d:588:ASN:HB2	1.75	0.50
1:e:424:SER:O	1:e:730:ARG:HA	2.12	0.50
1:f:611:ASP:OD1	1:f:612:VAL:N	2.43	0.50
1:h:451:THR:HG22	1:h:462:GLN:HE22	1.77	0.50
1:j:698:GLU:HG2	1:m:295:ARG:NE	2.27	0.50
1:m:451:THR:HG22	1:m:462:GLN:HE22	1.77	0.50
1:n:451:THR:HG22	1:n:462:GLN:HE22	1.77	0.50
1:n:698:GLU:HG2	1:y:295:ARG:NE	2.27	0.50
1:o:451:THR:HG21	1:o:460:ARG:HH21	1.76	0.50
1:q:451:THR:HG22	1:q:462:GLN:HE22	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:295:ARG:NE	1:7:698:GLU:HG2	2.27	0.50
1:B:257:TYR:O	1:C:719:GLY:HA2	2.12	0.50
1:B:295:ARG:NE	1:I:698:GLU:HG2	2.27	0.50
1:C:424:SER:O	1:C:730:ARG:HA	2.12	0.50
1:C:451:THR:HG21	1:C:460:ARG:HH21	1.76	0.50
1:D:451:THR:HG22	1:D:462:GLN:HE22	1.77	0.50
1:E:424:SER:O	1:E:730:ARG:HA	2.12	0.50
1:E:698:GLU:HG2	1:P:295:ARG:NE	2.27	0.50
1:I:586:ARG:HE	1:I:588:ASN:HB2	1.75	0.50
1:J:424:SER:O	1:J:730:ARG:HA	2.12	0.50
1:N:451:THR:HG21	1:N:460:ARG:HH21	1.76	0.50
1:N:451:THR:HG22	1:N:462:GLN:HE22	1.77	0.50
1:Q:295:ARG:NE	1:R:698:GLU:HG2	2.27	0.50
1:Q:424:SER:O	1:Q:730:ARG:HA	2.12	0.50
1:U:295:ARG:NE	1:V:698:GLU:HG2	2.27	0.50
1:V:693:LYS:HG2	1:4:350:GLN:HG2	1.94	0.50
1:X:257:TYR:O	1:5:719:GLY:HA2	2.12	0.50
1:X:350:GLN:HG2	1:4:693:LYS:HG2	1.94	0.50
1:X:586:ARG:HE	1:X:588:ASN:HB2	1.75	0.50
1:Y:698:GLU:HG2	1:Z:295:ARG:NE	2.26	0.50
1:0:295:ARG:NE	1:w:698:GLU:HG2	2.27	0.50
1:3:698:GLU:HG2	1:h:295:ARG:NE	2.26	0.50
1:5:424:SER:O	1:5:730:ARG:HA	2.12	0.50
1:a:451:THR:HG22	1:a:462:GLN:HE22	1.77	0.50
1:e:451:THR:HG22	1:e:462:GLN:HE22	1.77	0.50
1:g:428:SER:O	1:h:381:LEU:HG	2.11	0.50
1:j:586:ARG:HE	1:j:588:ASN:HB2	1.75	0.50
1:n:693:LYS:HG2	1:o:350:GLN:HG2	1.93	0.50
1:q:449:THR:HG21	1:r:501:TYR:CZ	2.47	0.50
1:q:454:GLY:O	1:q:455:THR:OG1	2.26	0.50
1:r:693:LYS:HG2	1:s:350:GLN:HG2	1.94	0.50
1:t:424:SER:O	1:t:730:ARG:HA	2.12	0.50
1:t:451:THR:HG22	1:t:462:GLN:HE22	1.77	0.50
1:u:451:THR:HG22	1:u:462:GLN:HE22	1.77	0.50
1:w:424:SER:O	1:w:730:ARG:HA	2.12	0.50
1:x:424:SER:O	1:x:730:ARG:HA	2.12	0.50
1:z:428:SER:O	1:6:381:LEU:HG	2.11	0.50
1:7:424:SER:O	1:7:730:ARG:HA	2.12	0.50
1:B:350:GLN:HG2	1:L:693:LYS:HG2	1.94	0.49
1:B:424:SER:O	1:B:730:ARG:HA	2.12	0.49
1:B:698:GLU:HG2	1:I:295:ARG:NE	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:719:GLY:HA2	1:W:257:TYR:O	2.12	0.49
1:H:719:GLY:HA2	1:I:257:TYR:O	2.12	0.49
1:K:449:THR:HG21	1:O:501:TYR:CZ	2.47	0.49
1:K:501:TYR:CZ	1:7:449:THR:HG21	2.47	0.49
1:Q:441:GLN:O	1:Q:465:GLN:NE2	2.39	0.49
1:R:428:SER:O	1:S:381:LEU:HG	2.11	0.49
1:R:441:GLN:O	1:R:465:GLN:NE2	2.39	0.49
1:T:350:GLN:HG2	1:f:693:LYS:HG2	1.94	0.49
1:W:698:GLU:HG2	1:X:295:ARG:NE	2.27	0.49
1:X:424:SER:O	1:X:730:ARG:HA	2.12	0.49
1:Y:451:THR:HG21	1:Y:460:ARG:HH21	1.76	0.49
1:Z:449:THR:HG21	1:x:501:TYR:CZ	2.46	0.49
1:O:698:GLU:HG2	1:w:295:ARG:NE	2.27	0.49
1:g:441:GLN:O	1:g:465:GLN:NE2	2.39	0.49
1:g:698:GLU:HG2	1:l:295:ARG:NE	2.27	0.49
1:k:381:LEU:HG	1:m:428:SER:O	2.11	0.49
1:k:693:LYS:HG2	1:l:350:GLN:HG2	1.94	0.49
1:k:698:GLU:HG2	1:r:295:ARG:NE	2.27	0.49
1:O:451:THR:HG22	1:O:462:GLN:HE22	1.77	0.49
1:p:295:ARG:NE	1:s:698:GLU:HG2	2.27	0.49
1:v:295:ARG:NE	1:x:698:GLU:HG2	2.27	0.49
1:x:451:THR:HG21	1:x:460:ARG:HH21	1.76	0.49
1:y:350:GLN:HG2	1:6:693:LYS:HG2	1.93	0.49
1:7:451:THR:HG21	1:7:460:ARG:HH21	1.76	0.49
1:A:451:THR:HG22	1:A:462:GLN:HE22	1.77	0.49
1:B:586:ARG:HE	1:B:588:ASN:HB2	1.75	0.49
1:D:424:SER:O	1:D:730:ARG:HA	2.12	0.49
1:E:501:TYR:CZ	1:F:449:THR:HG21	2.46	0.49
1:F:676:THR:HG21	1:G:655:PRO:HD2	1.94	0.49
1:H:655:PRO:HD2	1:Z:676:THR:HG21	1.94	0.49
1:R:501:TYR:CZ	1:U:449:THR:HG21	2.47	0.49
1:S:451:THR:HG21	1:S:460:ARG:HH21	1.76	0.49
1:T:693:LYS:HG2	1:3:350:GLN:HG2	1.94	0.49
1:W:295:ARG:NE	1:X:698:GLU:HG2	2.27	0.49
1:O:428:SER:O	1:7:381:LEU:HG	2.11	0.49
1:O:441:GLN:O	1:O:465:GLN:NE2	2.39	0.49
1:2:451:THR:HG22	1:2:462:GLN:HE22	1.77	0.49
1:3:693:LYS:HG2	1:f:350:GLN:HG2	1.93	0.49
1:f:424:SER:O	1:f:730:ARG:HA	2.12	0.49
1:k:295:ARG:NE	1:r:698:GLU:HG2	2.27	0.49
1:m:424:SER:O	1:m:730:ARG:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:424:SER:O	1:q:730:ARG:HA	2.12	0.49
1:q:501:TYR:CZ	1:s:449:THR:HG21	2.47	0.49
1:t:350:GLN:HG2	1:v:693:LYS:HG2	1.94	0.49
1:u:449:THR:HG21	1:v:501:TYR:CZ	2.46	0.49
1:x:441:GLN:O	1:x:465:GLN:NE2	2.39	0.49
1:A:451:THR:HG21	1:A:460:ARG:HH21	1.76	0.49
1:D:350:GLN:HG2	1:P:693:LYS:HG2	1.94	0.49
1:E:451:THR:HG21	1:E:460:ARG:HH21	1.76	0.49
1:E:451:THR:HG22	1:E:462:GLN:HE22	1.77	0.49
1:J:698:GLU:HG2	1:K:295:ARG:NE	2.27	0.49
1:N:449:THR:HG21	1:P:501:TYR:CZ	2.46	0.49
1:S:449:THR:HG21	1:U:501:TYR:CZ	2.47	0.49
1:W:451:THR:HG22	1:W:462:GLN:HE22	1.77	0.49
1:Y:451:THR:HG22	1:Y:462:GLN:HE22	1.77	0.49
1:3:295:ARG:NE	1:h:698:GLU:HG2	2.28	0.49
1:f:451:THR:HG22	1:f:462:GLN:HE22	1.77	0.49
1:j:655:PRO:HD2	1:z:676:THR:HG21	1.95	0.49
1:k:424:SER:O	1:k:730:ARG:HA	2.12	0.49
1:k:428:SER:O	1:l:381:LEU:HG	2.11	0.49
1:p:698:GLU:HG2	1:s:295:ARG:NE	2.27	0.49
1:q:428:SER:O	1:r:381:LEU:HG	2.11	0.49
1:r:451:THR:HG21	1:r:460:ARG:HH21	1.76	0.49
1:t:693:LYS:HG2	1:u:350:GLN:HG2	1.94	0.49
1:u:451:THR:HG21	1:u:460:ARG:HH21	1.76	0.49
1:v:451:THR:HG21	1:v:460:ARG:HH21	1.76	0.49
1:z:424:SER:O	1:z:730:ARG:HA	2.12	0.49
1:z:451:THR:HG22	1:z:462:GLN:HE22	1.77	0.49
1:z:693:LYS:HG2	1:6:350:GLN:HG2	1.94	0.49
1:A:441:GLN:O	1:A:465:GLN:NE2	2.39	0.49
1:D:501:TYR:CZ	1:P:449:THR:HG21	2.47	0.49
1:I:451:THR:HG22	1:I:462:GLN:HE22	1.77	0.49
1:N:428:SER:O	1:P:381:LEU:HG	2.11	0.49
1:P:676:THR:HG21	1:Q:655:PRO:HD2	1.95	0.49
1:T:449:THR:HG21	1:3:501:TYR:CZ	2.47	0.49
1:V:655:PRO:HD2	1:W:676:THR:HG21	1.95	0.49
1:1:676:THR:HG21	1:i:655:PRO:HD2	1.95	0.49
1:3:449:THR:HG21	1:f:501:TYR:CZ	2.46	0.49
1:a:719:GLY:HA2	1:u:257:TYR:O	2.12	0.49
1:b:676:THR:HG21	1:c:655:PRO:HD2	1.95	0.49
1:i:295:ARG:NE	1:z:698:GLU:HG2	2.26	0.49
1:j:451:THR:HG21	1:j:460:ARG:HH21	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:424:SER:O	1:l:730:ARG:HA	2.12	0.49
1:l:449:THR:HG21	1:m:501:TYR:CZ	2.47	0.49
1:l:451:THR:HG21	1:l:460:ARG:HH21	1.76	0.49
1:r:424:SER:O	1:r:730:ARG:HA	2.12	0.49
1:s:451:THR:HG21	1:s:460:ARG:HH21	1.76	0.49
1:v:676:THR:HG21	1:w:655:PRO:HD2	1.95	0.49
1:y:449:THR:HG21	1:z:501:TYR:CZ	2.46	0.49
1:y:501:TYR:CZ	1:6:449:THR:HG21	2.47	0.49
1:D:693:LYS:HG2	1:N:350:GLN:HG2	1.94	0.49
1:I:676:THR:HG21	1:J:655:PRO:HD2	1.95	0.49
1:N:676:THR:HG21	1:g:655:PRO:HD2	1.95	0.49
1:P:451:THR:HG21	1:P:460:ARG:HH21	1.76	0.49
1:Y:441:GLN:O	1:Y:465:GLN:NE2	2.39	0.49
1:2:350:GLN:HG2	1:j:693:LYS:HG2	1.93	0.49
1:3:296:ASP:OD1	1:3:299:ARG:NH1	2.46	0.49
1:a:501:TYR:CZ	1:b:449:THR:HG21	2.47	0.49
1:c:295:ARG:NE	1:f:698:GLU:HG2	2.27	0.49
1:g:449:THR:HG21	1:h:501:TYR:CZ	2.46	0.49
1:i:424:SER:O	1:i:730:ARG:HA	2.12	0.49
1:k:451:THR:HG21	1:k:460:ARG:HH21	1.76	0.49
1:l:257:TYR:O	1:r:719:GLY:HA2	2.12	0.49
1:n:257:TYR:O	1:s:719:GLY:HA2	2.13	0.49
1:p:441:GLN:O	1:p:465:GLN:NE2	2.39	0.49
1:r:428:SER:O	1:s:381:LEU:HG	2.11	0.49
1:s:424:SER:O	1:s:730:ARG:HA	2.12	0.49
1:t:501:TYR:CZ	1:v:449:THR:HG21	2.47	0.49
1:v:719:GLY:HA2	1:w:257:TYR:O	2.13	0.49
1:w:441:GLN:O	1:w:465:GLN:NE2	2.39	0.49
1:x:451:THR:HG22	1:x:462:GLN:HE22	1.77	0.49
1:y:693:LYS:HG2	1:z:350:GLN:HG2	1.94	0.49
1:J:719:GLY:HA2	1:O:257:TYR:O	2.13	0.49
1:L:451:THR:HG22	1:L:462:GLN:HE22	1.77	0.49
1:M:257:TYR:O	1:2:719:GLY:HA2	2.13	0.49
1:M:719:GLY:HA2	1:N:257:TYR:O	2.12	0.49
1:O:296:ASP:OD1	1:O:299:ARG:NH1	2.46	0.49
1:P:719:GLY:HA2	1:Q:257:TYR:O	2.13	0.49
1:Q:676:THR:HG21	1:S:655:PRO:HD2	1.95	0.49
1:R:257:TYR:O	1:V:719:GLY:HA2	2.13	0.49
1:S:296:ASP:OD1	1:S:299:ARG:NH1	2.46	0.49
1:O:296:ASP:OD1	1:O:299:ARG:NH1	2.46	0.49
1:2:296:ASP:OD1	1:2:299:ARG:NH1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:698:GLU:HG2	1:5:295:ARG:NE	2.27	0.49
1:d:451:THR:HG21	1:d:460:ARG:HH21	1.76	0.49
1:d:655:PRO:HD2	1:f:676:THR:HG21	1.95	0.49
1:e:296:ASP:OD1	1:e:299:ARG:NH1	2.46	0.49
1:f:441:GLN:O	1:f:465:GLN:NE2	2.39	0.49
1:h:257:TYR:O	1:l:719:GLY:HA2	2.13	0.49
1:k:501:TYR:CZ	1:m:449:THR:HG21	2.47	0.49
1:k:719:GLY:HA2	1:s:257:TYR:O	2.12	0.49
1:m:441:GLN:O	1:m:465:GLN:NE2	2.39	0.49
1:o:698:GLU:HG2	1:u:295:ARG:NE	2.27	0.49
1:q:350:GLN:HG2	1:s:693:LYS:HG2	1.93	0.49
1:u:428:SER:O	1:v:381:LEU:HG	2.11	0.49
1:x:586:ARG:HE	1:x:588:ASN:HB2	1.75	0.49
1:y:296:ASP:OD1	1:y:299:ARG:NH1	2.46	0.49
1:y:424:SER:O	1:y:730:ARG:HA	2.12	0.49
1:A:296:ASP:OD1	1:A:299:ARG:NH1	2.46	0.49
1:B:296:ASP:OD1	1:B:299:ARG:NH1	2.46	0.49
1:B:451:THR:HG21	1:B:460:ARG:HH21	1.76	0.49
1:C:295:ARG:NE	1:L:698:GLU:HG2	2.27	0.49
1:K:257:TYR:O	1:6:719:GLY:HA2	2.12	0.49
1:K:296:ASP:OD1	1:K:299:ARG:NH1	2.46	0.49
1:M:501:TYR:CZ	1:1:449:THR:HG21	2.47	0.49
1:R:296:ASP:OD1	1:R:299:ARG:NH1	2.46	0.49
1:R:440:ASP:OD1	1:R:441:GLN:N	2.46	0.49
1:S:440:ASP:OD1	1:S:441:GLN:N	2.46	0.49
1:T:257:TYR:O	1:c:719:GLY:HA2	2.13	0.49
1:U:296:ASP:OD1	1:U:299:ARG:NH1	2.46	0.49
1:X:719:GLY:HA2	1:Y:257:TYR:O	2.13	0.49
1:Y:296:ASP:OD1	1:Y:299:ARG:NH1	2.46	0.49
1:3:424:SER:O	1:3:730:ARG:HA	2.12	0.49
1:a:257:TYR:O	1:e:719:GLY:HA2	2.13	0.49
1:a:611:ASP:OD1	1:a:612:VAL:N	2.43	0.49
1:c:424:SER:O	1:c:730:ARG:HA	2.12	0.49
1:d:693:LYS:HG2	1:e:350:GLN:HG2	1.94	0.49
1:f:296:ASP:OD1	1:f:299:ARG:NH1	2.46	0.49
1:h:440:ASP:OD1	1:h:441:GLN:N	2.46	0.49
1:n:295:ARG:NE	1:y:698:GLU:HG2	2.27	0.49
1:n:424:SER:O	1:n:730:ARG:HA	2.12	0.49
1:n:440:ASP:OD1	1:n:441:GLN:N	2.46	0.49
1:o:296:ASP:OD1	1:o:299:ARG:NH1	2.46	0.49
1:w:451:THR:HG22	1:w:462:GLN:HE22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:676:THR:HG21	1:7:655:PRO:HD2	1.95	0.49
1:y:257:TYR:O	1:7:719:GLY:HA2	2.12	0.49
1:y:428:SER:O	1:z:381:LEU:HG	2.11	0.49
1:7:440:ASP:OD1	1:7:441:GLN:N	2.46	0.49
1:A:257:TYR:O	1:B:719:GLY:HA2	2.13	0.49
1:I:440:ASP:OD1	1:I:441:GLN:N	2.46	0.49
1:I:719:GLY:HA2	1:J:257:TYR:O	2.13	0.49
1:J:296:ASP:OD1	1:J:299:ARG:NH1	2.46	0.49
1:J:440:ASP:OD1	1:J:441:GLN:N	2.46	0.49
1:M:611:ASP:OD1	1:M:612:VAL:N	2.43	0.49
1:T:424:SER:O	1:T:730:ARG:HA	2.12	0.49
1:V:257:TYR:O	1:W:719:GLY:HA2	2.13	0.49
1:W:440:ASP:OD1	1:W:441:GLN:N	2.46	0.49
1:X:451:THR:HG21	1:X:460:ARG:HH21	1.76	0.49
1:Z:451:THR:HG22	1:Z:462:GLN:HE22	1.77	0.49
1:0:440:ASP:OD1	1:0:441:GLN:N	2.46	0.49
1:3:428:SER:O	1:f:381:LEU:HG	2.11	0.49
1:5:257:TYR:O	1:t:719:GLY:HA2	2.12	0.49
1:a:676:THR:HG21	1:u:655:PRO:HD2	1.95	0.49
1:h:424:SER:O	1:h:730:ARG:HA	2.12	0.49
1:i:440:ASP:OD1	1:i:441:GLN:N	2.46	0.49
1:l:693:LYS:HG2	1:m:350:GLN:HG2	1.94	0.49
1:o:655:PRO:HD2	1:y:676:THR:HG21	1.95	0.49
1:q:296:ASP:OD1	1:q:299:ARG:NH1	2.46	0.49
1:q:441:GLN:O	1:q:465:GLN:NE2	2.39	0.49
1:z:296:ASP:OD1	1:z:299:ARG:NH1	2.46	0.49
1:7:296:ASP:OD1	1:7:299:ARG:NH1	2.46	0.49
1:A:424:SER:O	1:A:730:ARG:HA	2.12	0.49
1:C:257:TYR:O	1:D:719:GLY:HA2	2.12	0.49
1:E:586:ARG:HE	1:E:588:ASN:HB2	1.75	0.49
1:G:676:THR:HG21	1:W:655:PRO:HD2	1.95	0.49
1:H:676:THR:HG21	1:I:655:PRO:HD2	1.95	0.49
1:K:454:GLY:O	1:K:455:THR:OG1	2.26	0.49
1:K:655:PRO:HD2	1:6:676:THR:HG21	1.95	0.49
1:L:440:ASP:OD1	1:L:441:GLN:N	2.46	0.49
1:M:441:GLN:O	1:M:465:GLN:NE2	2.39	0.49
1:M:676:THR:HG21	1:N:655:PRO:HD2	1.95	0.49
1:N:295:ARG:NE	1:O:698:GLU:HG2	2.27	0.49
1:O:655:PRO:HD2	1:3:676:THR:HG21	1.95	0.49
1:Q:451:THR:HG22	1:Q:462:GLN:HE22	1.77	0.49
1:S:719:GLY:HA2	1:3:257:TYR:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:676:THR:HG21	1:U:655:PRO:HD2	1.95	0.49
1:T:719:GLY:HA2	1:U:257:TYR:O	2.13	0.49
1:V:296:ASP:OD1	1:V:299:ARG:NH1	2.46	0.49
1:V:440:ASP:OD1	1:V:441:GLN:N	2.46	0.49
1:X:296:ASP:OD1	1:X:299:ARG:NH1	2.46	0.49
1:4:440:ASP:OD1	1:4:441:GLN:N	2.46	0.49
1:4:451:THR:HG22	1:4:462:GLN:HE22	1.77	0.49
1:a:440:ASP:OD1	1:a:441:GLN:N	2.46	0.49
1:b:424:SER:O	1:b:730:ARG:HA	2.12	0.49
1:c:440:ASP:OD1	1:c:441:GLN:N	2.46	0.49
1:d:257:TYR:O	1:f:719:GLY:HA2	2.13	0.49
1:e:655:PRO:HD2	1:q:676:THR:HG21	1.95	0.49
1:f:440:ASP:OD1	1:f:441:GLN:N	2.46	0.49
1:i:719:GLY:HA2	1:6:257:TYR:O	2.13	0.49
1:j:257:TYR:O	1:z:719:GLY:HA2	2.13	0.49
1:m:296:ASP:OD1	1:m:299:ARG:NH1	2.46	0.49
1:o:257:TYR:O	1:y:719:GLY:HA2	2.13	0.49
1:o:693:LYS:HG2	1:p:350:GLN:HG2	1.93	0.49
1:q:440:ASP:OD1	1:q:441:GLN:N	2.46	0.49
1:z:440:ASP:OD1	1:z:441:GLN:N	2.46	0.49
1:6:424:SER:O	1:6:730:ARG:HA	2.12	0.49
1:A:719:GLY:HA2	1:E:257:TYR:O	2.13	0.49
1:D:296:ASP:OD1	1:D:299:ARG:NH1	2.46	0.49
1:E:440:ASP:OD1	1:E:441:GLN:N	2.46	0.49
1:F:451:THR:HG22	1:F:462:GLN:HE22	1.77	0.49
1:G:296:ASP:OD1	1:G:299:ARG:NH1	2.46	0.49
1:I:296:ASP:OD1	1:I:299:ARG:NH1	2.46	0.49
1:K:440:ASP:OD1	1:K:441:GLN:N	2.46	0.49
1:L:296:ASP:OD1	1:L:299:ARG:NH1	2.46	0.49
1:M:350:GLN:HG2	1:1:693:LYS:HG2	1.94	0.49
1:M:440:ASP:OD1	1:M:441:GLN:N	2.46	0.49
1:U:440:ASP:OD1	1:U:441:GLN:N	2.46	0.49
1:Y:676:THR:HG21	1:x:655:PRO:HD2	1.95	0.49
1:1:424:SER:O	1:1:730:ARG:HA	2.12	0.49
1:4:296:ASP:OD1	1:4:299:ARG:NH1	2.46	0.49
1:4:676:THR:HG21	1:b:655:PRO:HD2	1.95	0.49
1:5:296:ASP:OD1	1:5:299:ARG:NH1	2.46	0.49
1:a:350:GLN:HG2	1:b:693:LYS:HG2	1.94	0.49
1:d:719:GLY:HA2	1:r:257:TYR:O	2.13	0.49
1:h:296:ASP:OD1	1:h:299:ARG:NH1	2.46	0.49
1:j:719:GLY:HA2	1:k:257:TYR:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:440:ASP:OD1	1:k:441:GLN:N	2.46	0.49
1:p:257:TYR:O	1:u:719:GLY:HA2	2.12	0.49
1:z:441:GLN:O	1:z:465:GLN:NE2	2.39	0.49
1:A:676:THR:HG21	1:E:655:PRO:HD2	1.95	0.48
1:C:296:ASP:OD1	1:C:299:ARG:NH1	2.46	0.48
1:D:295:ARG:NE	1:M:698:GLU:HG2	2.27	0.48
1:D:449:THR:HG21	1:N:501:TYR:CZ	2.47	0.48
1:F:719:GLY:HA2	1:G:257:TYR:O	2.13	0.48
1:H:257:TYR:O	1:Z:719:GLY:HA2	2.13	0.48
1:H:296:ASP:OD1	1:H:299:ARG:NH1	2.46	0.48
1:N:424:SER:O	1:N:730:ARG:HA	2.12	0.48
1:O:257:TYR:O	1:3:719:GLY:HA2	2.13	0.48
1:Q:296:ASP:OD1	1:Q:299:ARG:NH1	2.46	0.48
1:S:451:THR:HG22	1:S:462:GLN:HE22	1.77	0.48
1:U:676:THR:HG21	1:4:655:PRO:HD2	1.95	0.48
1:W:296:ASP:OD1	1:W:299:ARG:NH1	2.46	0.48
1:Y:424:SER:O	1:Y:730:ARG:HA	2.12	0.48
1:Y:719:GLY:HA2	1:x:257:TYR:O	2.13	0.48
1:2:655:PRO:HD2	1:m:676:THR:HG21	1.95	0.48
1:a:698:GLU:HG2	1:t:295:ARG:NE	2.27	0.48
1:b:296:ASP:OD1	1:b:299:ARG:NH1	2.46	0.48
1:l:440:ASP:OD1	1:l:441:GLN:N	2.46	0.48
1:m:440:ASP:OD1	1:m:441:GLN:N	2.46	0.48
1:n:296:ASP:OD1	1:n:299:ARG:NH1	2.46	0.48
1:s:440:ASP:OD1	1:s:441:GLN:N	2.46	0.48
1:x:440:ASP:OD1	1:x:441:GLN:N	2.46	0.48
1:7:451:THR:HG22	1:7:462:GLN:HE22	1.77	0.48
1:B:451:THR:HG22	1:B:462:GLN:HE22	1.77	0.48
1:C:440:ASP:OD1	1:C:441:GLN:N	2.46	0.48
1:F:350:GLN:HG2	1:Q:693:LYS:HG2	1.94	0.48
1:H:440:ASP:OD1	1:H:441:GLN:N	2.46	0.48
1:H:693:LYS:HG2	1:W:350:GLN:HG2	1.94	0.48
1:K:676:THR:HG21	1:L:655:PRO:HD2	1.95	0.48
1:L:676:THR:HG21	1:1:655:PRO:HD2	1.95	0.48
1:N:719:GLY:HA2	1:g:257:TYR:O	2.13	0.48
1:O:424:SER:O	1:O:730:ARG:HA	2.12	0.48
1:O:440:ASP:OD1	1:O:441:GLN:N	2.46	0.48
1:R:424:SER:O	1:R:730:ARG:HA	2.12	0.48
1:R:655:PRO:HD2	1:V:676:THR:HG21	1.95	0.48
1:T:440:ASP:OD1	1:T:441:GLN:N	2.46	0.48
1:X:451:THR:HG22	1:X:462:GLN:HE22	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:296:ASP:OD1	1:Z:299:ARG:NH1	2.46	0.48
1:1:296:ASP:OD1	1:1:299:ARG:NH1	2.46	0.48
1:3:451:THR:HG22	1:3:462:GLN:HE22	1.77	0.48
1:4:719:GLY:HA2	1:b:257:TYR:O	2.13	0.48
1:a:441:GLN:O	1:a:465:GLN:NE2	2.39	0.48
1:d:296:ASP:OD1	1:d:299:ARG:NH1	2.46	0.48
1:d:440:ASP:OD1	1:d:441:GLN:N	2.46	0.48
1:g:424:SER:O	1:g:730:ARG:HA	2.12	0.48
1:j:440:ASP:OD1	1:j:441:GLN:N	2.46	0.48
1:k:296:ASP:OD1	1:k:299:ARG:NH1	2.46	0.48
1:n:454:GLY:O	1:n:455:THR:OG1	2.26	0.48
1:n:655:PRO:HD2	1:s:676:THR:HG21	1.95	0.48
1:o:440:ASP:OD1	1:o:441:GLN:N	2.46	0.48
1:r:296:ASP:OD1	1:r:299:ARG:NH1	2.46	0.48
1:r:440:ASP:OD1	1:r:441:GLN:N	2.46	0.48
1:s:296:ASP:OD1	1:s:299:ARG:NH1	2.46	0.48
1:t:296:ASP:OD1	1:t:299:ARG:NH1	2.46	0.48
1:t:449:THR:HG21	1:u:501:TYR:CZ	2.47	0.48
1:w:296:ASP:OD1	1:w:299:ARG:NH1	2.46	0.48
1:D:257:TYR:O	1:E:719:GLY:HA2	2.13	0.48
1:E:296:ASP:OD1	1:E:299:ARG:NH1	2.46	0.48
1:G:440:ASP:OD1	1:G:441:GLN:N	2.46	0.48
1:G:693:LYS:HG2	1:I:350:GLN:HG2	1.94	0.48
1:J:676:THR:HG21	1:O:655:PRO:HD2	1.95	0.48
1:L:719:GLY:HA2	1:1:257:TYR:O	2.13	0.48
1:N:296:ASP:OD1	1:N:299:ARG:NH1	2.46	0.48
1:Q:719:GLY:HA2	1:S:257:TYR:O	2.13	0.48
1:Y:440:ASP:OD1	1:Y:441:GLN:N	2.46	0.48
1:Z:350:GLN:HG2	1:w:693:LYS:HG2	1.94	0.48
1:O:424:SER:O	1:O:730:ARG:HA	2.12	0.48
1:5:440:ASP:OD1	1:5:441:GLN:N	2.46	0.48
1:d:676:THR:HG21	1:r:655:PRO:HD2	1.94	0.48
1:j:296:ASP:OD1	1:j:299:ARG:NH1	2.46	0.48
1:j:441:GLN:O	1:j:465:GLN:NE2	2.39	0.48
1:l:296:ASP:OD1	1:l:299:ARG:NH1	2.46	0.48
1:o:424:SER:O	1:o:730:ARG:HA	2.12	0.48
1:u:296:ASP:OD1	1:u:299:ARG:NH1	2.46	0.48
1:u:424:SER:O	1:u:730:ARG:HA	2.12	0.48
1:w:440:ASP:OD1	1:w:441:GLN:N	2.46	0.48
1:w:719:GLY:HA2	1:7:257:TYR:O	2.13	0.48
1:6:440:ASP:OD1	1:6:441:GLN:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:440:ASP:OD1	1:A:441:GLN:N	2.46	0.48
1:B:440:ASP:OD1	1:B:441:GLN:N	2.46	0.48
1:F:296:ASP:OD1	1:F:299:ARG:NH1	2.46	0.48
1:Q:440:ASP:OD1	1:Q:441:GLN:N	2.46	0.48
1:X:440:ASP:OD1	1:X:441:GLN:N	2.46	0.48
1:2:257:TYR:O	1:m:719:GLY:HA2	2.13	0.48
1:h:655:PRO:HD2	1:l:676:THR:HG21	1.95	0.48
1:p:296:ASP:OD1	1:p:299:ARG:NH1	2.46	0.48
1:p:424:SER:O	1:p:730:ARG:HA	2.12	0.48
1:t:257:TYR:O	1:x:719:GLY:HA2	2.13	0.48
1:x:296:ASP:OD1	1:x:299:ARG:NH1	2.46	0.48
1:y:451:THR:HG22	1:y:462:GLN:HE22	1.77	0.48
1:B:655:PRO:HD2	1:C:676:THR:HG21	1.95	0.48
1:N:440:ASP:OD1	1:N:441:GLN:N	2.46	0.48
1:O:350:GLN:HG2	1:h:693:LYS:HG2	1.95	0.48
1:O:693:LYS:HG2	1:g:350:GLN:HG2	1.94	0.48
1:P:440:ASP:OD1	1:P:441:GLN:N	2.46	0.48
1:T:296:ASP:OD1	1:T:299:ARG:NH1	2.46	0.48
1:X:655:PRO:HD2	1:5:676:THR:HG21	1.95	0.48
1:1:719:GLY:HA2	1:i:257:TYR:O	2.13	0.48
1:2:440:ASP:OD1	1:2:441:GLN:N	2.46	0.48
1:e:257:TYR:O	1:q:719:GLY:HA2	2.13	0.48
1:e:440:ASP:OD1	1:e:441:GLN:N	2.46	0.48
1:g:296:ASP:OD1	1:g:299:ARG:NH1	2.46	0.48
1:g:440:ASP:OD1	1:g:441:GLN:N	2.46	0.48
1:j:676:THR:HG21	1:k:655:PRO:HD2	1.95	0.48
1:n:719:GLY:HA2	1:z:257:TYR:O	2.13	0.48
1:p:440:ASP:OD1	1:p:441:GLN:N	2.46	0.48
1:v:440:ASP:OD1	1:v:441:GLN:N	2.46	0.48
1:6:441:GLN:O	1:6:465:GLN:NE2	2.39	0.48
1:D:440:ASP:OD1	1:D:441:GLN:N	2.46	0.48
1:N:545:LYS:HG2	1:N:559:MET:HE2	1.96	0.48
1:T:545:LYS:HG2	1:T:559:MET:HE2	1.96	0.48
1:1:440:ASP:OD1	1:1:441:GLN:N	2.46	0.48
1:1:545:LYS:HG2	1:1:559:MET:HE2	1.96	0.48
1:b:545:LYS:HG2	1:b:559:MET:HE2	1.96	0.48
1:b:719:GLY:HA2	1:c:257:TYR:O	2.13	0.48
1:c:296:ASP:OD1	1:c:299:ARG:NH1	2.46	0.48
1:d:441:GLN:O	1:d:465:GLN:NE2	2.39	0.48
1:g:719:GLY:HA2	1:m:257:TYR:O	2.13	0.48
1:h:454:GLY:O	1:h:455:THR:OG1	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:545:LYS:HG2	1:6:559:MET:HE2	1.96	0.48
1:A:545:LYS:HG2	1:A:559:MET:HE2	1.96	0.48
1:F:257:TYR:O	1:R:719:GLY:HA2	2.13	0.48
1:F:545:LYS:HG2	1:F:559:MET:HE2	1.96	0.48
1:J:545:LYS:HG2	1:J:559:MET:HE2	1.96	0.48
1:K:719:GLY:HA2	1:L:257:TYR:O	2.13	0.48
1:O:719:GLY:HA2	1:P:257:TYR:O	2.13	0.48
1:V:545:LYS:HG2	1:V:559:MET:HE2	1.96	0.48
1:Y:545:LYS:HG2	1:Y:559:MET:HE2	1.96	0.48
1:o:719:GLY:HA2	1:v:257:TYR:O	2.13	0.48
1:s:545:LYS:HG2	1:s:559:MET:HE2	1.96	0.48
1:t:440:ASP:OD1	1:t:441:GLN:N	2.46	0.48
1:u:440:ASP:OD1	1:u:441:GLN:N	2.46	0.48
1:u:545:LYS:HG2	1:u:559:MET:HE2	1.96	0.48
1:6:296:ASP:OD1	1:6:299:ARG:NH1	2.46	0.48
1:H:424:SER:O	1:H:730:ARG:HA	2.12	0.48
1:M:545:LYS:HG2	1:M:559:MET:HE2	1.96	0.48
1:X:676:THR:HG21	1:Y:655:PRO:HD2	1.95	0.48
1:Z:257:TYR:O	1:O:719:GLY:HA2	2.13	0.48
1:Z:545:LYS:HG2	1:Z:559:MET:HE2	1.96	0.48
1:a:454:GLY:O	1:a:455:THR:OG1	2.26	0.48
1:b:440:ASP:OD1	1:b:441:GLN:N	2.46	0.48
1:i:296:ASP:OD1	1:i:299:ARG:NH1	2.46	0.48
1:D:545:LYS:HG2	1:D:559:MET:HE2	1.96	0.48
1:T:441:GLN:O	1:T:465:GLN:NE2	2.39	0.48
1:U:719:GLY:HA2	1:4:257:TYR:O	2.13	0.48
1:3:454:GLY:O	1:3:455:THR:OG1	2.26	0.48
1:a:545:LYS:HG2	1:a:559:MET:HE2	1.96	0.48
1:d:545:LYS:HG2	1:d:559:MET:HE2	1.96	0.48
1:g:676:THR:HG21	1:m:655:PRO:HD2	1.95	0.48
1:j:545:LYS:HG2	1:j:559:MET:HE2	1.96	0.48
1:l:545:LYS:HG2	1:l:559:MET:HE2	1.96	0.48
1:q:545:LYS:HG2	1:q:559:MET:HE2	1.96	0.48
1:t:545:LYS:HG2	1:t:559:MET:HE2	1.96	0.48
1:G:424:SER:O	1:G:730:ARG:HA	2.12	0.48
1:M:454:GLY:O	1:M:455:THR:OG1	2.26	0.48
1:d:451:THR:CG2	1:d:462:GLN:HE22	2.27	0.48
1:f:451:THR:CG2	1:f:462:GLN:HE22	2.27	0.48
1:j:451:THR:CG2	1:j:462:GLN:HE22	2.27	0.48
1:m:545:LYS:HG2	1:m:559:MET:HE2	1.96	0.48
1:o:676:THR:HG21	1:v:655:PRO:HD2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:451:THR:CG2	1:z:462:GLN:HE22	2.27	0.48
1:F:655:PRO:HD2	1:R:676:THR:HG21	1.95	0.47
1:O:676:THR:HG21	1:P:655:PRO:HD2	1.95	0.47
1:P:451:THR:CG2	1:P:462:GLN:HE22	2.27	0.47
1:S:676:THR:HG21	1:3:655:PRO:HD2	1.95	0.47
1:a:296:ASP:OD1	1:a:299:ARG:NH1	2.46	0.47
1:a:655:PRO:HD2	1:e:676:THR:HG21	1.95	0.47
1:h:451:THR:CG2	1:h:462:GLN:HE22	2.27	0.47
1:i:451:THR:CG2	1:i:462:GLN:HE22	2.27	0.47
1:o:545:LYS:HG2	1:o:559:MET:HE2	1.96	0.47
1:p:719:GLY:HA2	1:q:257:TYR:O	2.13	0.47
1:y:440:ASP:OD1	1:y:441:GLN:N	2.46	0.47
1:y:454:GLY:O	1:y:455:THR:OG1	2.26	0.47
1:y:545:LYS:HG2	1:y:559:MET:HE2	1.96	0.47
1:z:462:GLN:HB3	1:6:552:ASN:HA	1.96	0.47
1:A:655:PRO:HD2	1:B:676:THR:HG21	1.95	0.47
1:F:440:ASP:OD1	1:F:441:GLN:N	2.46	0.47
1:M:296:ASP:OD1	1:M:299:ARG:NH1	2.46	0.47
1:M:655:PRO:HD2	1:2:676:THR:HG21	1.95	0.47
1:Z:655:PRO:HD2	1:0:676:THR:HG21	1.95	0.47
1:1:451:THR:CG2	1:1:462:GLN:HE22	2.27	0.47
1:2:451:THR:CG2	1:2:462:GLN:HE22	2.27	0.47
1:3:349:TYR:OH	1:3:643:PRO:O	2.33	0.47
1:3:545:LYS:HG2	1:3:559:MET:HE2	1.96	0.47
1:c:451:THR:CG2	1:c:462:GLN:HE22	2.27	0.47
1:e:451:THR:CG2	1:e:462:GLN:HE22	2.27	0.47
1:l:451:THR:CG2	1:l:462:GLN:HE22	2.27	0.47
1:s:451:THR:CG2	1:s:462:GLN:HE22	2.27	0.47
1:y:655:PRO:HD2	1:7:676:THR:HG21	1.95	0.47
1:C:451:THR:CG2	1:C:462:GLN:HE22	2.27	0.47
1:D:451:THR:CG2	1:D:462:GLN:HE22	2.27	0.47
1:D:655:PRO:HD2	1:E:676:THR:HG21	1.95	0.47
1:N:349:TYR:OH	1:N:643:PRO:O	2.33	0.47
1:O:545:LYS:HG2	1:O:559:MET:HE2	1.96	0.47
1:P:296:ASP:OD1	1:P:299:ARG:NH1	2.46	0.47
1:P:545:LYS:HG2	1:P:559:MET:HE2	1.96	0.47
1:T:552:ASN:HA	1:f:462:GLN:HB3	1.97	0.47
1:Z:440:ASP:OD1	1:Z:441:GLN:N	2.46	0.47
1:3:440:ASP:OD1	1:3:441:GLN:N	2.46	0.47
1:5:451:THR:CG2	1:5:462:GLN:HE22	2.27	0.47
1:b:451:THR:CG2	1:b:462:GLN:HE22	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:655:PRO:HD2	1:r:676:THR:HG21	1.95	0.47
1:n:451:THR:CG2	1:n:462:GLN:HE22	2.27	0.47
1:t:451:THR:CG2	1:t:462:GLN:HE22	2.27	0.47
1:v:296:ASP:OD1	1:v:299:ARG:NH1	2.46	0.47
1:v:451:THR:CG2	1:v:462:GLN:HE22	2.27	0.47
1:v:545:LYS:HG2	1:v:559:MET:HE2	1.96	0.47
1:D:349:TYR:OH	1:D:643:PRO:O	2.33	0.47
1:K:349:TYR:OH	1:K:643:PRO:O	2.32	0.47
1:K:545:LYS:HG2	1:K:559:MET:HE2	1.96	0.47
1:N:462:GLN:HB3	1:P:552:ASN:HA	1.97	0.47
1:Q:451:THR:CG2	1:Q:462:GLN:HE22	2.27	0.47
1:U:349:TYR:OH	1:U:643:PRO:O	2.32	0.47
1:5:655:PRO:HD2	1:t:676:THR:HG21	1.95	0.47
1:f:257:TYR:O	1:h:719:GLY:HA2	2.14	0.47
1:i:676:THR:HG21	1:6:655:PRO:HD2	1.95	0.47
1:l:441:GLN:O	1:l:465:GLN:NE2	2.39	0.47
1:p:451:THR:CG2	1:p:462:GLN:HE22	2.27	0.47
1:q:349:TYR:OH	1:q:643:PRO:O	2.33	0.47
1:t:349:TYR:OH	1:t:643:PRO:O	2.33	0.47
1:t:655:PRO:HD2	1:x:676:THR:HG21	1.95	0.47
1:u:349:TYR:OH	1:u:643:PRO:O	2.33	0.47
1:7:451:THR:CG2	1:7:462:GLN:HE22	2.27	0.47
1:C:545:LYS:HG2	1:C:559:MET:HE2	1.96	0.47
1:C:655:PRO:HD2	1:D:676:THR:HG21	1.95	0.47
1:G:545:LYS:HG2	1:G:559:MET:HE2	1.96	0.47
1:H:552:ASN:HA	1:Y:462:GLN:HB3	1.96	0.47
1:I:451:THR:CG2	1:I:462:GLN:HE22	2.27	0.47
1:K:462:GLN:HB3	1:O:552:ASN:HA	1.97	0.47
1:S:451:THR:CG2	1:S:462:GLN:HE22	2.27	0.47
1:T:655:PRO:HD2	1:c:676:THR:HG21	1.95	0.47
1:U:545:LYS:HG2	1:U:559:MET:HE2	1.96	0.47
1:2:552:ASN:HA	1:j:462:GLN:HB3	1.97	0.47
1:3:451:THR:CG2	1:3:462:GLN:HE22	2.27	0.47
1:d:454:GLY:O	1:d:455:THR:OG1	2.26	0.47
1:k:676:THR:HG21	1:s:655:PRO:HD2	1.95	0.47
1:p:676:THR:HG21	1:q:655:PRO:HD2	1.96	0.47
1:w:451:THR:CG2	1:w:462:GLN:HE22	2.27	0.47
1:6:451:THR:CG2	1:6:462:GLN:HE22	2.27	0.47
1:A:462:GLN:HB3	1:G:552:ASN:HA	1.97	0.47
1:H:451:THR:CG2	1:H:462:GLN:HE22	2.27	0.47
1:R:552:ASN:HA	1:U:462:GLN:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:451:THR:CG2	1:T:462:GLN:HE22	2.27	0.47
1:d:462:GLN:HB3	1:e:552:ASN:HA	1.97	0.47
1:g:451:THR:CG2	1:g:462:GLN:HE22	2.27	0.47
1:s:441:GLN:O	1:s:465:GLN:NE2	2.39	0.47
1:u:462:GLN:HB3	1:v:552:ASN:HA	1.97	0.47
1:7:349:TYR:OH	1:7:643:PRO:O	2.33	0.47
1:7:454:GLY:O	1:7:455:THR:OG1	2.26	0.47
1:G:451:THR:CG2	1:G:462:GLN:HE22	2.27	0.47
1:H:545:LYS:HG2	1:H:559:MET:HE2	1.96	0.47
1:I:545:LYS:HG2	1:I:559:MET:HE2	1.96	0.47
1:J:451:THR:CG2	1:J:462:GLN:HE22	2.27	0.47
1:L:454:GLY:O	1:L:455:THR:OG1	2.26	0.47
1:Q:545:LYS:HG2	1:Q:559:MET:HE2	1.96	0.47
1:S:349:TYR:OH	1:S:643:PRO:O	2.33	0.47
1:S:454:GLY:O	1:S:455:THR:OG1	2.26	0.47
1:S:545:LYS:HG2	1:S:559:MET:HE2	1.96	0.47
1:V:451:THR:CG2	1:V:462:GLN:HE22	2.27	0.47
1:V:462:GLN:HB3	1:4:552:ASN:HA	1.97	0.47
1:W:451:THR:CG2	1:W:462:GLN:HE22	2.27	0.47
1:W:545:LYS:HG2	1:W:559:MET:HE2	1.96	0.47
1:5:545:LYS:HG2	1:5:559:MET:HE2	1.96	0.47
1:c:462:GLN:HB3	1:d:552:ASN:HA	1.97	0.47
1:e:349:TYR:OH	1:e:643:PRO:O	2.33	0.47
1:f:655:PRO:HD2	1:h:676:THR:HG21	1.95	0.47
1:h:441:GLN:O	1:h:465:GLN:NE2	2.39	0.47
1:i:462:GLN:HB3	1:j:552:ASN:HA	1.97	0.47
1:j:454:GLY:O	1:j:455:THR:OG1	2.26	0.47
1:k:545:LYS:HG2	1:k:559:MET:HE2	1.96	0.47
1:n:676:THR:HG21	1:z:655:PRO:HD2	1.95	0.47
1:x:349:TYR:OH	1:x:643:PRO:O	2.33	0.47
1:y:451:THR:CG2	1:y:462:GLN:HE22	2.27	0.47
1:y:552:ASN:HA	1:6:462:GLN:HB3	1.97	0.47
1:7:545:LYS:HG2	1:7:559:MET:HE2	1.96	0.47
1:E:349:TYR:OH	1:E:643:PRO:O	2.33	0.47
1:E:545:LYS:HG2	1:E:559:MET:HE2	1.96	0.47
1:T:462:GLN:HB3	1:3:552:ASN:HA	1.97	0.47
1:U:451:THR:CG2	1:U:462:GLN:HE22	2.27	0.47
1:h:545:LYS:HG2	1:h:559:MET:HE2	1.96	0.47
1:k:451:THR:CG2	1:k:462:GLN:HE22	2.27	0.47
1:n:545:LYS:HG2	1:n:559:MET:HE2	1.96	0.47
1:p:276:TYR:OH	1:u:714:THR:HG21	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:545:LYS:HG2	1:r:559:MET:HE2	1.96	0.47
1:w:545:LYS:HG2	1:w:559:MET:HE2	1.96	0.47
1:x:545:LYS:HG2	1:x:559:MET:HE2	1.96	0.47
1:E:451:THR:CG2	1:E:462:GLN:HE22	2.27	0.47
1:E:462:GLN:HB3	1:Q:552:ASN:HA	1.97	0.47
1:V:552:ASN:HA	1:X:462:GLN:HB3	1.97	0.47
1:2:349:TYR:OH	1:2:643:PRO:O	2.33	0.47
1:2:462:GLN:HB3	1:i:552:ASN:HA	1.97	0.47
1:a:451:THR:CG2	1:a:462:GLN:HE22	2.27	0.47
1:c:552:ASN:HA	1:e:462:GLN:HB3	1.97	0.47
1:m:451:THR:CG2	1:m:462:GLN:HE22	2.27	0.47
1:q:451:THR:CG2	1:q:462:GLN:HE22	2.27	0.47
1:r:451:THR:CG2	1:r:462:GLN:HE22	2.27	0.47
1:x:451:THR:CG2	1:x:462:GLN:HE22	2.27	0.47
1:B:545:LYS:HG2	1:B:559:MET:HE2	1.96	0.47
1:J:462:GLN:HB3	1:L:552:ASN:HA	1.97	0.47
1:K:451:THR:CG2	1:K:462:GLN:HE22	2.27	0.47
1:T:525:ALA:HB3	1:T:572:VAL:HA	1.97	0.47
1:W:462:GLN:HB3	1:Y:552:ASN:HA	1.97	0.47
1:X:545:LYS:HG2	1:X:559:MET:HE2	1.96	0.47
1:3:441:GLN:O	1:3:465:GLN:NE2	2.39	0.47
1:m:525:ALA:HB3	1:m:572:VAL:HA	1.98	0.47
1:n:441:GLN:O	1:n:465:GLN:NE2	2.39	0.47
1:w:552:ASN:HA	1:x:462:GLN:HB3	1.97	0.47
1:y:441:GLN:O	1:y:465:GLN:NE2	2.39	0.47
1:z:545:LYS:HG2	1:z:559:MET:HE2	1.96	0.47
1:A:552:ASN:HA	1:I:462:GLN:HB3	1.97	0.46
1:I:714:THR:HG21	1:J:276:TYR:OH	2.16	0.46
1:L:525:ALA:HB3	1:L:572:VAL:HA	1.98	0.46
1:M:451:THR:CG2	1:M:462:GLN:HE22	2.27	0.46
1:O:451:THR:CG2	1:O:462:GLN:HE22	2.27	0.46
1:P:714:THR:HG21	1:Q:276:TYR:OH	2.15	0.46
1:Y:451:THR:CG2	1:Y:462:GLN:HE22	2.27	0.46
1:3:298:GLN:HE22	1:h:698:GLU:HB2	1.80	0.46
1:4:525:ALA:HB3	1:4:572:VAL:HA	1.98	0.46
1:b:698:GLU:HB2	1:e:298:GLN:HE22	1.81	0.46
1:f:545:LYS:HG2	1:f:559:MET:HE2	1.96	0.46
1:q:525:ALA:HB3	1:q:572:VAL:HA	1.98	0.46
1:u:451:THR:CG2	1:u:462:GLN:HE22	2.27	0.46
1:v:714:THR:HG21	1:w:276:TYR:OH	2.16	0.46
1:6:525:ALA:HB3	1:6:572:VAL:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:698:GLU:HB2	1:7:298:GLN:HE22	1.81	0.46
1:A:451:THR:CG2	1:A:462:GLN:HE22	2.27	0.46
1:C:462:GLN:HB3	1:1:552:ASN:HA	1.97	0.46
1:N:451:THR:CG2	1:N:462:GLN:HE22	2.27	0.46
1:S:298:GLN:HE22	1:T:698:GLU:HB2	1.81	0.46
1:S:698:GLU:HB2	1:T:298:GLN:HE22	1.81	0.46
1:Y:454:GLY:O	1:Y:455:THR:OG1	2.26	0.46
1:1:698:GLU:HB2	1:2:298:GLN:HE22	1.81	0.46
1:1:714:THR:HG21	1:i:276:TYR:OH	2.16	0.46
1:2:545:LYS:HG2	1:2:559:MET:HE2	1.96	0.46
1:4:454:GLY:O	1:4:455:THR:OG1	2.26	0.46
1:4:545:LYS:HG2	1:4:559:MET:HE2	1.96	0.46
1:5:462:GLN:HB3	1:b:552:ASN:HA	1.97	0.46
1:5:552:ASN:HA	1:a:462:GLN:HB3	1.97	0.46
1:a:552:ASN:HA	1:b:462:GLN:HB3	1.96	0.46
1:b:525:ALA:HB3	1:b:572:VAL:HA	1.98	0.46
1:b:714:THR:HG21	1:c:276:TYR:OH	2.16	0.46
1:A:454:GLY:O	1:A:455:THR:OG1	2.26	0.46
1:B:462:GLN:HB3	1:J:552:ASN:HA	1.97	0.46
1:C:441:GLN:O	1:C:465:GLN:NE2	2.39	0.46
1:F:714:THR:HG21	1:G:276:TYR:OH	2.16	0.46
1:H:276:TYR:OH	1:Z:714:THR:HG21	2.16	0.46
1:H:462:GLN:HB3	1:W:552:ASN:HA	1.97	0.46
1:I:525:ALA:HB3	1:I:572:VAL:HA	1.98	0.46
1:O:552:ASN:HA	1:h:462:GLN:HB3	1.96	0.46
1:S:525:ALA:HB3	1:S:572:VAL:HA	1.98	0.46
1:U:525:ALA:HB3	1:U:572:VAL:HA	1.97	0.46
1:V:276:TYR:OH	1:W:714:THR:HG21	2.16	0.46
1:W:525:ALA:HB3	1:W:572:VAL:HA	1.98	0.46
1:1:298:GLN:HE22	1:2:698:GLU:HB2	1.81	0.46
1:1:525:ALA:HB3	1:1:572:VAL:HA	1.98	0.46
1:b:298:GLN:HE22	1:e:698:GLU:HB2	1.81	0.46
1:c:525:ALA:HB3	1:c:572:VAL:HA	1.98	0.46
1:d:698:GLU:HB2	1:q:298:GLN:HE22	1.81	0.46
1:j:698:GLU:HB2	1:m:298:GLN:HE22	1.81	0.46
1:k:298:GLN:HE22	1:r:698:GLU:HB2	1.81	0.46
1:l:525:ALA:HB3	1:l:572:VAL:HA	1.97	0.46
1:n:525:ALA:HB3	1:n:572:VAL:HA	1.97	0.46
1:o:451:THR:CG2	1:o:462:GLN:HE22	2.27	0.46
1:p:525:ALA:HB3	1:p:572:VAL:HA	1.97	0.46
1:6:298:GLN:HE22	1:7:698:GLU:HB2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:451:THR:CG2	1:B:462:GLN:HE22	2.27	0.46
1:C:552:ASN:HA	1:M:462:GLN:HB3	1.97	0.46
1:J:525:ALA:HB3	1:J:572:VAL:HA	1.98	0.46
1:L:545:LYS:HG2	1:L:559:MET:HE2	1.96	0.46
1:M:552:ASN:HA	1:1:462:GLN:HB3	1.97	0.46
1:Q:298:GLN:HE22	1:R:698:GLU:HB2	1.81	0.46
1:Q:525:ALA:HB3	1:Q:572:VAL:HA	1.98	0.46
1:R:451:THR:CG2	1:R:462:GLN:HE22	2.27	0.46
1:S:462:GLN:HB3	1:U:552:ASN:HA	1.97	0.46
1:T:276:TYR:OH	1:c:714:THR:HG21	2.16	0.46
1:V:525:ALA:HB3	1:V:572:VAL:HA	1.98	0.46
1:0:451:THR:CG2	1:0:462:GLN:HE22	2.27	0.46
1:0:698:GLU:HB2	1:w:298:GLN:HE22	1.81	0.46
1:4:451:THR:CG2	1:4:462:GLN:HE22	2.27	0.46
1:a:298:GLN:HE22	1:t:698:GLU:HB2	1.81	0.46
1:e:545:LYS:HG2	1:e:559:MET:HE2	1.96	0.46
1:f:525:ALA:HB3	1:f:572:VAL:HA	1.98	0.46
1:h:525:ALA:HB3	1:h:572:VAL:HA	1.98	0.46
1:i:495:ASP:OD2	1:i:533:LYS:NZ	2.34	0.46
1:k:698:GLU:HB2	1:r:298:GLN:HE22	1.81	0.46
1:v:525:ALA:HB3	1:v:572:VAL:HA	1.98	0.46
1:v:698:GLU:HB2	1:x:298:GLN:HE22	1.81	0.46
1:w:525:ALA:HB3	1:w:572:VAL:HA	1.98	0.46
1:z:525:ALA:HB3	1:z:572:VAL:HA	1.98	0.46
1:7:525:ALA:HB3	1:7:572:VAL:HA	1.98	0.46
1:D:525:ALA:HB3	1:D:572:VAL:HA	1.97	0.46
1:D:698:GLU:HB2	1:M:298:GLN:HE22	1.81	0.46
1:E:298:GLN:HE22	1:P:698:GLU:HB2	1.81	0.46
1:G:462:GLN:HB3	1:I:552:ASN:HA	1.97	0.46
1:L:451:THR:CG2	1:L:462:GLN:HE22	2.27	0.46
1:P:525:ALA:HB3	1:P:572:VAL:HA	1.98	0.46
1:X:451:THR:CG2	1:X:462:GLN:HE22	2.27	0.46
1:Y:714:THR:HG21	1:x:276:TYR:OH	2.16	0.46
1:g:525:ALA:HB3	1:g:572:VAL:HA	1.98	0.46
1:i:525:ALA:HB3	1:i:572:VAL:HA	1.98	0.46
1:i:545:LYS:HG2	1:i:559:MET:HE2	1.96	0.46
1:i:714:THR:HG21	1:6:276:TYR:OH	2.16	0.46
1:l:462:GLN:HB3	1:m:552:ASN:HA	1.97	0.46
1:q:552:ASN:HA	1:s:462:GLN:HB3	1.97	0.46
1:t:525:ALA:HB3	1:t:572:VAL:HA	1.98	0.46
1:t:552:ASN:HA	1:v:462:GLN:HB3	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:525:ALA:HB3	1:A:572:VAL:HA	1.98	0.46
1:A:714:THR:HG21	1:E:276:TYR:OH	2.16	0.46
1:J:698:GLU:HB2	1:K:298:GLN:HE22	1.81	0.46
1:K:525:ALA:HB3	1:K:572:VAL:HA	1.98	0.46
1:K:552:ASN:HA	1:7:462:GLN:HB3	1.97	0.46
1:O:525:ALA:HB3	1:O:572:VAL:HA	1.98	0.46
1:Q:698:GLU:HB2	1:R:298:GLN:HE22	1.81	0.46
1:R:462:GLN:HB3	1:S:552:ASN:HA	1.96	0.46
1:Y:525:ALA:HB3	1:Y:572:VAL:HA	1.98	0.46
1:Z:276:TYR:OH	1:0:714:THR:HG21	2.16	0.46
1:0:462:GLN:HB3	1:7:552:ASN:HA	1.96	0.46
1:3:698:GLU:HB2	1:h:298:GLN:HE22	1.81	0.46
1:5:349:TYR:OH	1:5:643:PRO:O	2.33	0.46
1:5:441:GLN:O	1:5:465:GLN:NE2	2.39	0.46
1:a:349:TYR:OH	1:a:643:PRO:O	2.33	0.46
1:g:698:GLU:HB2	1:l:298:GLN:HE22	1.81	0.46
1:n:276:TYR:OH	1:s:714:THR:HG21	2.16	0.46
1:n:298:GLN:HE22	1:y:698:GLU:HB2	1.81	0.46
1:n:698:GLU:HB2	1:y:298:GLN:HE22	1.81	0.46
1:o:525:ALA:HB3	1:o:572:VAL:HA	1.97	0.46
1:s:525:ALA:HB3	1:s:572:VAL:HA	1.98	0.46
1:v:422:HIS:CD2	1:v:729:THR:HG21	2.51	0.46
1:B:422:HIS:CD2	1:B:729:THR:HG21	2.51	0.46
1:C:276:TYR:OH	1:D:714:THR:HG21	2.16	0.46
1:C:349:TYR:OH	1:C:643:PRO:O	2.33	0.46
1:D:422:HIS:CD2	1:D:729:THR:HG21	2.51	0.46
1:D:552:ASN:HA	1:P:462:GLN:HB3	1.96	0.46
1:F:276:TYR:OH	1:R:714:THR:HG21	2.15	0.46
1:I:422:HIS:CD2	1:I:729:THR:HG21	2.51	0.46
1:J:422:HIS:CD2	1:J:729:THR:HG21	2.51	0.46
1:M:422:HIS:CD2	1:M:729:THR:HG21	2.51	0.46
1:N:714:THR:HG21	1:g:276:TYR:OH	2.16	0.46
1:P:422:HIS:CD2	1:P:729:THR:HG21	2.51	0.46
1:U:298:GLN:HE22	1:V:698:GLU:HB2	1.81	0.46
1:V:422:HIS:CD2	1:V:729:THR:HG21	2.51	0.46
1:W:422:HIS:CD2	1:W:729:THR:HG21	2.51	0.46
1:X:422:HIS:CD2	1:X:729:THR:HG21	2.51	0.46
1:Z:451:THR:CG2	1:Z:462:GLN:HE22	2.27	0.46
1:0:298:GLN:HE22	1:w:698:GLU:HB2	1.81	0.46
1:5:422:HIS:CD2	1:5:729:THR:HG21	2.51	0.46
1:a:422:HIS:CD2	1:a:729:THR:HG21	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:525:ALA:HB3	1:a:572:VAL:HA	1.98	0.46
1:c:495:ASP:OD2	1:c:533:LYS:NZ	2.34	0.46
1:h:276:TYR:OH	1:l:714:THR:HG21	2.16	0.46
1:h:458:GLN:NE2	1:h:460:ARG:HH12	2.14	0.46
1:j:349:TYR:OH	1:j:643:PRO:O	2.33	0.46
1:k:552:ASN:HA	1:m:462:GLN:HB3	1.97	0.46
1:l:349:TYR:OH	1:l:643:PRO:O	2.33	0.46
1:n:458:GLN:NE2	1:n:460:ARG:HH12	2.14	0.46
1:o:714:THR:HG21	1:v:276:TYR:OH	2.16	0.46
1:s:349:TYR:OH	1:s:643:PRO:O	2.32	0.46
1:t:422:HIS:CD2	1:t:729:THR:HG21	2.51	0.46
1:7:422:HIS:CD2	1:7:729:THR:HG21	2.51	0.46
1:A:698:GLU:HB2	1:F:298:GLN:HE22	1.81	0.46
1:B:454:GLY:O	1:B:455:THR:OG1	2.26	0.46
1:B:552:ASN:HA	1:L:462:GLN:HB3	1.97	0.46
1:C:422:HIS:CD2	1:C:729:THR:HG21	2.51	0.46
1:F:451:THR:CG2	1:F:462:GLN:HE22	2.27	0.46
1:J:298:GLN:HE22	1:K:698:GLU:HB2	1.81	0.46
1:J:714:THR:HG21	1:O:276:TYR:OH	2.16	0.46
1:M:349:TYR:OH	1:M:643:PRO:O	2.33	0.46
1:M:525:ALA:HB3	1:M:572:VAL:HA	1.98	0.46
1:N:422:HIS:CD2	1:N:729:THR:HG21	2.51	0.46
1:O:714:THR:HG21	1:P:276:TYR:OH	2.16	0.46
1:R:276:TYR:OH	1:V:714:THR:HG21	2.16	0.46
1:S:422:HIS:CD2	1:S:729:THR:HG21	2.51	0.46
1:U:698:GLU:HB2	1:V:298:GLN:HE22	1.81	0.46
1:X:349:TYR:OH	1:X:643:PRO:O	2.33	0.46
1:X:552:ASN:HA	1:4:462:GLN:HB3	1.98	0.46
1:Y:349:TYR:OH	1:Y:643:PRO:O	2.33	0.46
1:Y:422:HIS:CD2	1:Y:729:THR:HG21	2.51	0.46
1:Z:552:ASN:HA	1:w:462:GLN:HB3	1.97	0.46
1:5:276:TYR:OH	1:t:714:THR:HG21	2.16	0.46
1:b:422:HIS:CD2	1:b:729:THR:HG21	2.51	0.46
1:c:545:LYS:HG2	1:c:559:MET:HE2	1.96	0.46
1:d:349:TYR:OH	1:d:643:PRO:O	2.33	0.46
1:d:525:ALA:HB3	1:d:572:VAL:HA	1.98	0.46
1:p:698:GLU:HB2	1:s:298:GLN:HE22	1.81	0.46
1:q:462:GLN:HB3	1:r:552:ASN:HA	1.97	0.46
1:t:462:GLN:HB3	1:u:552:ASN:HA	1.97	0.46
1:u:422:HIS:CD2	1:u:729:THR:HG21	2.51	0.46
1:w:349:TYR:OH	1:w:643:PRO:O	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:422:HIS:CD2	1:w:729:THR:HG21	2.51	0.46
1:x:422:HIS:CD2	1:x:729:THR:HG21	2.51	0.46
1:A:422:HIS:CD2	1:A:729:THR:HG21	2.51	0.46
1:B:349:TYR:OH	1:B:643:PRO:O	2.32	0.46
1:B:698:GLU:HB2	1:I:298:GLN:HE22	1.81	0.46
1:E:422:HIS:CD2	1:E:729:THR:HG21	2.51	0.46
1:F:525:ALA:HB3	1:F:572:VAL:HA	1.98	0.46
1:M:714:THR:HG21	1:N:276:TYR:OH	2.16	0.46
1:Q:349:TYR:OH	1:Q:643:PRO:O	2.33	0.46
1:Q:422:HIS:CD2	1:Q:729:THR:HG21	2.51	0.46
1:R:422:HIS:CD2	1:R:729:THR:HG21	2.51	0.46
1:W:458:GLN:NE2	1:W:460:ARG:HH12	2.14	0.46
1:X:454:GLY:O	1:X:455:THR:OG1	2.26	0.46
1:Z:525:ALA:HB3	1:Z:572:VAL:HA	1.98	0.46
1:0:422:HIS:CD2	1:0:729:THR:HG21	2.51	0.46
1:1:422:HIS:CD2	1:1:729:THR:HG21	2.51	0.46
1:a:698:GLU:HB2	1:t:298:GLN:HE22	1.81	0.46
1:a:714:THR:HG21	1:u:276:TYR:OH	2.16	0.46
1:g:349:TYR:OH	1:g:643:PRO:O	2.32	0.46
1:g:545:LYS:HG2	1:g:559:MET:HE2	1.96	0.46
1:j:525:ALA:HB3	1:j:572:VAL:HA	1.98	0.46
1:k:422:HIS:CD2	1:k:729:THR:HG21	2.51	0.46
1:o:276:TYR:OH	1:y:714:THR:HG21	2.16	0.46
1:p:298:GLN:HE22	1:s:698:GLU:HB2	1.81	0.46
1:p:349:TYR:OH	1:p:643:PRO:O	2.33	0.46
1:r:422:HIS:CD2	1:r:729:THR:HG21	2.51	0.46
1:y:462:GLN:HB3	1:z:552:ASN:HA	1.97	0.46
1:A:349:TYR:OH	1:A:643:PRO:O	2.33	0.46
1:C:458:GLN:NE2	1:C:460:ARG:HH12	2.14	0.46
1:D:298:GLN:HE22	1:M:698:GLU:HB2	1.81	0.46
1:F:458:GLN:NE2	1:F:460:ARG:HH12	2.14	0.46
1:F:552:ASN:HA	1:Q:462:GLN:HB3	1.97	0.46
1:I:458:GLN:NE2	1:I:460:ARG:HH12	2.14	0.46
1:L:458:GLN:NE2	1:L:460:ARG:HH12	2.14	0.46
1:M:276:TYR:OH	1:2:714:THR:HG21	2.16	0.46
1:T:458:GLN:NE2	1:T:460:ARG:HH12	2.14	0.46
1:U:458:GLN:NE2	1:U:460:ARG:HH12	2.14	0.46
1:Y:458:GLN:NE2	1:Y:460:ARG:HH12	2.14	0.46
1:Y:698:GLU:HB2	1:Z:298:GLN:HE22	1.81	0.46
1:Z:458:GLN:NE2	1:Z:460:ARG:HH12	2.14	0.46
1:0:545:LYS:HG2	1:0:559:MET:HE2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:462:GLN:HB3	1:f:552:ASN:HA	1.97	0.46
1:3:525:ALA:HB3	1:3:572:VAL:HA	1.98	0.46
1:4:458:GLN:NE2	1:4:460:ARG:HH12	2.14	0.46
1:5:458:GLN:NE2	1:5:460:ARG:HH12	2.14	0.46
1:g:298:GLN:HE22	1:l:698:GLU:HB2	1.81	0.46
1:i:422:HIS:CD2	1:i:729:THR:HG21	2.51	0.46
1:o:298:GLN:HE22	1:u:698:GLU:HB2	1.81	0.46
1:p:545:LYS:HG2	1:p:559:MET:HE2	1.96	0.46
1:v:458:GLN:NE2	1:v:460:ARG:HH12	2.14	0.46
1:y:525:ALA:HB3	1:y:572:VAL:HA	1.98	0.46
1:6:458:GLN:NE2	1:6:460:ARG:HH12	2.14	0.46
1:A:458:GLN:NE2	1:A:460:ARG:HH12	2.14	0.45
1:D:458:GLN:NE2	1:D:460:ARG:HH12	2.14	0.45
1:D:462:GLN:HB3	1:N:552:ASN:HA	1.97	0.45
1:E:698:GLU:HB2	1:P:298:GLN:HE22	1.81	0.45
1:G:458:GLN:NE2	1:G:460:ARG:HH12	2.14	0.45
1:H:458:GLN:NE2	1:H:460:ARG:HH12	2.14	0.45
1:K:458:GLN:NE2	1:K:460:ARG:HH12	2.14	0.45
1:N:298:GLN:HE22	1:O:698:GLU:HB2	1.81	0.45
1:N:458:GLN:NE2	1:N:460:ARG:HH12	2.14	0.45
1:N:698:GLU:HB2	1:O:298:GLN:HE22	1.81	0.45
1:O:422:HIS:CD2	1:O:729:THR:HG21	2.51	0.45
1:P:458:GLN:NE2	1:P:460:ARG:HH12	2.14	0.45
1:R:525:ALA:HB3	1:R:572:VAL:HA	1.97	0.45
1:R:545:LYS:HG2	1:R:559:MET:HE2	1.96	0.45
1:W:298:GLN:HE22	1:X:698:GLU:HB2	1.81	0.45
1:a:276:TYR:OH	1:e:714:THR:HG21	2.16	0.45
1:c:422:HIS:CD2	1:c:729:THR:HG21	2.51	0.45
1:h:422:HIS:CD2	1:h:729:THR:HG21	2.51	0.45
1:n:422:HIS:CD2	1:n:729:THR:HG21	2.51	0.45
1:o:698:GLU:HB2	1:u:298:GLN:HE22	1.81	0.45
1:r:462:GLN:HB3	1:s:552:ASN:HA	1.97	0.45
1:t:458:GLN:NE2	1:t:460:ARG:HH12	2.14	0.45
1:z:349:TYR:OH	1:z:643:PRO:O	2.33	0.45
1:A:276:TYR:OH	1:B:714:THR:HG21	2.16	0.45
1:B:525:ALA:HB3	1:B:572:VAL:HA	1.97	0.45
1:E:525:ALA:HB3	1:E:572:VAL:HA	1.98	0.45
1:J:458:GLN:NE2	1:J:460:ARG:HH12	2.14	0.45
1:L:422:HIS:CD2	1:L:729:THR:HG21	2.51	0.45
1:Q:458:GLN:NE2	1:Q:460:ARG:HH12	2.14	0.45
1:X:714:THR:HG21	1:Y:276:TYR:OH	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:422:HIS:CD2	1:3:729:THR:HG21	2.51	0.45
1:b:454:GLY:O	1:b:455:THR:OG1	2.26	0.45
1:m:458:GLN:NE2	1:m:460:ARG:HH12	2.14	0.45
1:n:462:GLN:HB3	1:o:552:ASN:HA	1.97	0.45
1:n:714:THR:HG21	1:z:276:TYR:OH	2.16	0.45
1:o:422:HIS:CD2	1:o:729:THR:HG21	2.51	0.45
1:q:458:GLN:NE2	1:q:460:ARG:HH12	2.14	0.45
1:u:458:GLN:NE2	1:u:460:ARG:HH12	2.14	0.45
1:x:525:ALA:HB3	1:x:572:VAL:HA	1.98	0.45
1:z:422:HIS:CD2	1:z:729:THR:HG21	2.51	0.45
1:A:298:GLN:HE22	1:F:698:GLU:HB2	1.81	0.45
1:J:475:SER:HA	1:L:519:ASN:HB2	1.99	0.45
1:O:276:TYR:OH	1:3:714:THR:HG21	2.16	0.45
1:U:441:GLN:O	1:U:465:GLN:NE2	2.39	0.45
1:V:458:GLN:NE2	1:V:460:ARG:HH12	2.14	0.45
1:Z:422:HIS:CD2	1:Z:729:THR:HG21	2.51	0.45
1:0:525:ALA:HB3	1:0:572:VAL:HA	1.98	0.45
1:2:422:HIS:CD2	1:2:729:THR:HG21	2.51	0.45
1:4:422:HIS:CD2	1:4:729:THR:HG21	2.51	0.45
1:d:495:ASP:OD2	1:d:533:LYS:NZ	2.34	0.45
1:d:714:THR:HG21	1:r:276:TYR:OH	2.16	0.45
1:f:349:TYR:OH	1:f:643:PRO:O	2.33	0.45
1:f:422:HIS:CD2	1:f:729:THR:HG21	2.51	0.45
1:g:462:GLN:HB3	1:h:552:ASN:HA	1.97	0.45
1:j:276:TYR:OH	1:z:714:THR:HG21	2.16	0.45
1:j:422:HIS:CD2	1:j:729:THR:HG21	2.51	0.45
1:j:458:GLN:NE2	1:j:460:ARG:HH12	2.14	0.45
1:j:495:ASP:OD2	1:j:533:LYS:NZ	2.34	0.45
1:k:525:ALA:HB3	1:k:572:VAL:HA	1.98	0.45
1:o:349:TYR:OH	1:o:643:PRO:O	2.33	0.45
1:r:525:ALA:HB3	1:r:572:VAL:HA	1.98	0.45
1:v:298:GLN:HE22	1:x:698:GLU:HB2	1.81	0.45
1:w:458:GLN:NE2	1:w:460:ARG:HH12	2.14	0.45
1:y:422:HIS:CD2	1:y:729:THR:HG21	2.51	0.45
1:C:698:GLU:HB2	1:L:298:GLN:HE22	1.81	0.45
1:D:441:GLN:O	1:D:465:GLN:NE2	2.39	0.45
1:E:552:ASN:HA	1:F:462:GLN:HB3	1.97	0.45
1:F:422:HIS:CD2	1:F:729:THR:HG21	2.51	0.45
1:H:422:HIS:CD2	1:H:729:THR:HG21	2.51	0.45
1:K:714:THR:HG21	1:L:276:TYR:OH	2.15	0.45
1:X:525:ALA:HB3	1:X:572:VAL:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:298:GLN:HE22	1:Z:698:GLU:HB2	1.81	0.45
1:Z:462:GLN:HB3	1:x:552:ASN:HA	1.97	0.45
1:4:714:THR:HG21	1:b:276:TYR:OH	2.16	0.45
1:c:298:GLN:HE22	1:f:698:GLU:HB2	1.81	0.45
1:d:422:HIS:CD2	1:d:729:THR:HG21	2.51	0.45
1:d:458:GLN:NE2	1:d:460:ARG:HH12	2.14	0.45
1:e:422:HIS:CD2	1:e:729:THR:HG21	2.51	0.45
1:f:276:TYR:OH	1:h:714:THR:HG21	2.16	0.45
1:i:298:GLN:HE22	1:z:698:GLU:HB2	1.81	0.45
1:k:462:GLN:HB3	1:l:552:ASN:HA	1.97	0.45
1:u:454:GLY:O	1:u:455:THR:OG1	2.26	0.45
1:6:454:GLY:O	1:6:455:THR:OG1	2.26	0.45
1:K:276:TYR:OH	1:6:714:THR:HG21	2.16	0.45
1:K:422:HIS:CD2	1:K:729:THR:HG21	2.51	0.45
1:K:441:GLN:O	1:K:465:GLN:NE2	2.39	0.45
1:L:714:THR:HG21	1:1:276:TYR:OH	2.16	0.45
1:O:349:TYR:OH	1:O:643:PRO:O	2.33	0.45
1:T:714:THR:HG21	1:U:276:TYR:OH	2.16	0.45
1:U:422:HIS:CD2	1:U:729:THR:HG21	2.51	0.45
1:W:698:GLU:HB2	1:X:298:GLN:HE22	1.81	0.45
1:2:276:TYR:OH	1:m:714:THR:HG21	2.16	0.45
1:2:525:ALA:HB3	1:2:572:VAL:HA	1.98	0.45
1:4:298:GLN:HE22	1:5:698:GLU:HB2	1.81	0.45
1:e:525:ALA:HB3	1:e:572:VAL:HA	1.98	0.45
1:g:714:THR:HG21	1:m:276:TYR:OH	2.16	0.45
1:j:714:THR:HG21	1:k:276:TYR:OH	2.16	0.45
1:p:401:SER:HB2	1:u:228:TRP:HB3	1.99	0.45
1:B:458:GLN:NE2	1:B:460:ARG:HH12	2.14	0.45
1:D:276:TYR:OH	1:E:714:THR:HG21	2.16	0.45
1:G:422:HIS:CD2	1:G:729:THR:HG21	2.51	0.45
1:N:525:ALA:HB3	1:N:572:VAL:HA	1.98	0.45
1:O:462:GLN:HB3	1:g:552:ASN:HA	1.98	0.45
1:R:458:GLN:NE2	1:R:460:ARG:HH12	2.14	0.45
1:T:349:TYR:OH	1:T:643:PRO:O	2.33	0.45
1:U:714:THR:HG21	1:4:276:TYR:OH	2.16	0.45
1:V:475:SER:HA	1:4:519:ASN:HB2	1.99	0.45
1:1:454:GLY:O	1:1:455:THR:OG1	2.26	0.45
1:a:458:GLN:NE2	1:a:460:ARG:HH12	2.14	0.45
1:d:276:TYR:OH	1:f:714:THR:HG21	2.16	0.45
1:e:276:TYR:OH	1:q:714:THR:HG21	2.16	0.45
1:l:458:GLN:NE2	1:l:460:ARG:HH12	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:475:SER:HA	1:o:519:ASN:HB2	1.99	0.45
1:s:458:GLN:NE2	1:s:460:ARG:HH12	2.14	0.45
1:t:276:TYR:OH	1:x:714:THR:HG21	2.16	0.45
1:u:525:ALA:HB3	1:u:572:VAL:HA	1.98	0.45
1:6:349:TYR:OH	1:6:643:PRO:O	2.33	0.45
1:B:298:GLN:HE22	1:I:698:GLU:HB2	1.81	0.45
1:M:401:SER:HB2	1:2:228:TRP:HB3	1.99	0.45
1:M:458:GLN:NE2	1:M:460:ARG:HH12	2.14	0.45
1:3:458:GLN:NE2	1:3:460:ARG:HH12	2.14	0.45
1:a:401:SER:HB2	1:e:228:TRP:HB3	1.99	0.45
1:m:422:HIS:CD2	1:m:729:THR:HG21	2.51	0.45
1:n:552:ASN:HA	1:p:462:GLN:HB3	1.98	0.45
1:y:276:TYR:OH	1:7:714:THR:HG21	2.16	0.45
1:B:631:PRO:O	1:L:478:TRP:HH2	2.00	0.45
1:E:478:TRP:HH2	1:Q:631:PRO:O	2.00	0.45
1:G:525:ALA:HB3	1:G:572:VAL:HA	1.98	0.45
1:H:525:ALA:HB3	1:H:572:VAL:HA	1.98	0.45
1:N:454:GLY:O	1:N:455:THR:OG1	2.26	0.45
1:S:714:THR:HG21	1:3:276:TYR:OH	2.16	0.45
1:X:458:GLN:NE2	1:X:460:ARG:HH12	2.14	0.45
1:0:458:GLN:NE2	1:0:460:ARG:HH12	2.14	0.45
1:1:458:GLN:NE2	1:1:460:ARG:HH12	2.14	0.45
1:g:458:GLN:NE2	1:g:460:ARG:HH12	2.14	0.45
1:p:458:GLN:NE2	1:p:460:ARG:HH12	2.14	0.45
1:q:422:HIS:CD2	1:q:729:THR:HG21	2.51	0.45
1:w:631:PRO:O	1:x:478:TRP:HH2	2.00	0.45
1:B:450:ASN:HD22	1:B:457:THR:HG21	1.82	0.45
1:B:519:ASN:HB2	1:L:475:SER:HA	1.99	0.45
1:G:450:ASN:HD22	1:G:457:THR:HG21	1.82	0.45
1:H:450:ASN:HD22	1:H:457:THR:HG21	1.82	0.45
1:H:475:SER:HA	1:W:519:ASN:HB2	1.99	0.45
1:H:714:THR:HG21	1:I:276:TYR:OH	2.16	0.45
1:N:475:SER:HA	1:P:519:ASN:HB2	1.99	0.45
1:O:458:GLN:NE2	1:O:460:ARG:HH12	2.14	0.45
1:U:454:GLY:O	1:U:455:THR:OG1	2.26	0.45
1:X:276:TYR:OH	1:5:714:THR:HG21	2.16	0.45
1:X:519:ASN:HB2	1:4:475:SER:HA	1.99	0.45
1:2:475:SER:HA	1:i:519:ASN:HB2	1.99	0.45
1:b:458:GLN:NE2	1:b:460:ARG:HH12	2.14	0.45
1:f:458:GLN:NE2	1:f:460:ARG:HH12	2.14	0.45
1:g:422:HIS:CD2	1:g:729:THR:HG21	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:276:TYR:OH	1:r:714:THR:HG21	2.16	0.45
1:o:458:GLN:NE2	1:o:460:ARG:HH12	2.14	0.45
1:o:462:GLN:HB3	1:p:552:ASN:HA	1.98	0.45
1:p:714:THR:HG21	1:q:276:TYR:OH	2.17	0.45
1:x:458:GLN:NE2	1:x:460:ARG:HH12	2.14	0.45
1:y:458:GLN:NE2	1:y:460:ARG:HH12	2.14	0.45
1:B:276:TYR:OH	1:C:714:THR:HG21	2.16	0.45
1:C:450:ASN:HD22	1:C:457:THR:HG21	1.82	0.45
1:C:519:ASN:HB2	1:M:475:SER:HA	1.99	0.45
1:G:475:SER:HA	1:I:519:ASN:HB2	1.99	0.45
1:T:422:HIS:CD2	1:T:729:THR:HG21	2.51	0.45
1:X:450:ASN:HD22	1:X:457:THR:HG21	1.82	0.45
1:X:631:PRO:O	1:4:478:TRP:HH2	2.00	0.45
1:2:454:GLY:O	1:2:455:THR:OG1	2.26	0.45
1:5:519:ASN:HB2	1:a:475:SER:HA	1.99	0.45
1:c:519:ASN:HB2	1:e:475:SER:HA	1.99	0.45
1:g:454:GLY:O	1:g:455:THR:OG1	2.26	0.45
1:k:714:THR:HG21	1:s:276:TYR:OH	2.16	0.45
1:l:422:HIS:CD2	1:l:729:THR:HG21	2.51	0.45
1:n:478:TRP:HH2	1:o:631:PRO:O	2.01	0.45
1:n:519:ASN:HB2	1:p:475:SER:HA	1.99	0.45
1:p:454:GLY:O	1:p:455:THR:OG1	2.26	0.45
1:z:458:GLN:NE2	1:z:460:ARG:HH12	2.14	0.45
1:C:478:TRP:HH2	1:1:631:PRO:O	2.00	0.44
1:E:458:GLN:NE2	1:E:460:ARG:HH12	2.14	0.44
1:G:298:GLN:HE22	1:H:698:GLU:HB2	1.81	0.44
1:G:698:GLU:HB2	1:H:298:GLN:HE22	1.81	0.44
1:G:714:THR:HG21	1:W:276:TYR:OH	2.16	0.44
1:I:450:ASN:HD22	1:I:457:THR:HG21	1.82	0.44
1:J:478:TRP:HH2	1:L:631:PRO:O	2.01	0.44
1:N:450:ASN:HD22	1:N:457:THR:HG21	1.82	0.44
1:V:478:TRP:HH2	1:4:631:PRO:O	2.01	0.44
1:W:450:ASN:HD22	1:W:457:THR:HG21	1.82	0.44
1:X:228:TRP:HB3	1:Y:401:SER:HB2	2.00	0.44
1:3:475:SER:HA	1:f:519:ASN:HB2	1.99	0.44
1:5:450:ASN:HD22	1:5:457:THR:HG21	1.82	0.44
1:5:478:TRP:HH2	1:b:631:PRO:O	2.00	0.44
1:e:450:ASN:HD22	1:e:457:THR:HG21	1.82	0.44
1:k:519:ASN:HB2	1:m:475:SER:HA	1.99	0.44
1:n:631:PRO:O	1:p:478:TRP:HH2	2.00	0.44
1:q:475:SER:HA	1:r:519:ASN:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:401:SER:HB2	1:x:228:TRP:HB3	1.99	0.44
1:u:450:ASN:HD22	1:u:457:THR:HG21	1.82	0.44
1:u:475:SER:HA	1:v:519:ASN:HB2	1.99	0.44
1:w:714:THR:HG21	1:7:276:TYR:OH	2.16	0.44
1:y:475:SER:HA	1:z:519:ASN:HB2	1.99	0.44
1:6:422:HIS:CD2	1:6:729:THR:HG21	2.51	0.44
1:A:401:SER:HB2	1:B:228:TRP:HB3	2.00	0.44
1:A:631:PRO:O	1:I:478:TRP:HH2	2.01	0.44
1:C:298:GLN:HE22	1:L:698:GLU:HB2	1.81	0.44
1:C:525:ALA:HB3	1:C:572:VAL:HA	1.98	0.44
1:D:401:SER:HB2	1:E:228:TRP:HB3	1.99	0.44
1:D:450:ASN:HD22	1:D:457:THR:HG21	1.82	0.44
1:F:401:SER:HB2	1:R:228:TRP:HB3	2.00	0.44
1:G:451:THR:HG23	1:G:460:ARG:HB3	2.00	0.44
1:H:451:THR:HG23	1:H:460:ARG:HB3	2.00	0.44
1:Q:450:ASN:HD22	1:Q:457:THR:HG21	1.82	0.44
1:Q:714:THR:HG21	1:S:276:TYR:OH	2.16	0.44
1:R:454:GLY:O	1:R:455:THR:OG1	2.26	0.44
1:S:458:GLN:NE2	1:S:460:ARG:HH12	2.14	0.44
1:W:478:TRP:HH2	1:Y:631:PRO:O	2.01	0.44
1:Z:401:SER:HB2	1:O:228:TRP:HB3	2.00	0.44
1:O:451:THR:HG23	1:O:460:ARG:HB3	2.00	0.44
1:2:450:ASN:HD22	1:2:457:THR:HG21	1.82	0.44
1:2:451:THR:HG23	1:2:460:ARG:HB3	2.00	0.44
1:2:663:SER:H	1:m:372:MET:HE3	1.83	0.44
1:5:525:ALA:HB3	1:5:572:VAL:HA	1.98	0.44
1:c:475:SER:HA	1:d:519:ASN:HB2	1.99	0.44
1:e:451:THR:HG23	1:e:460:ARG:HB3	2.00	0.44
1:f:450:ASN:HD22	1:f:457:THR:HG21	1.82	0.44
1:g:451:THR:HG23	1:g:460:ARG:HB3	2.00	0.44
1:i:475:SER:HA	1:j:519:ASN:HB2	1.99	0.44
1:j:298:GLN:HE22	1:m:698:GLU:HB2	1.81	0.44
1:o:228:TRP:HB3	1:v:401:SER:HB2	1.99	0.44
1:p:422:HIS:CD2	1:p:729:THR:HG21	2.51	0.44
1:p:451:THR:HG23	1:p:460:ARG:HB3	2.00	0.44
1:q:451:THR:HG23	1:q:460:ARG:HB3	2.00	0.44
1:s:422:HIS:CD2	1:s:729:THR:HG21	2.51	0.44
1:w:450:ASN:HD22	1:w:457:THR:HG21	1.82	0.44
1:z:454:GLY:O	1:z:455:THR:OG1	2.26	0.44
1:A:228:TRP:HB3	1:E:401:SER:HB2	1.99	0.44
1:K:450:ASN:HD22	1:K:457:THR:HG21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:475:SER:HA	1:O:519:ASN:HB2	1.99	0.44
1:N:228:TRP:HB3	1:g:401:SER:HB2	2.00	0.44
1:S:475:SER:HA	1:U:519:ASN:HB2	1.99	0.44
1:U:450:ASN:HD22	1:U:457:THR:HG21	1.82	0.44
1:O:454:GLY:O	1:O:455:THR:OG1	2.26	0.44
1:2:631:PRO:O	1:j:478:TRP:HH2	2.00	0.44
1:4:698:GLU:HB2	1:5:298:GLN:HE22	1.81	0.44
1:a:631:PRO:O	1:b:478:TRP:HH2	2.01	0.44
1:e:663:SER:H	1:q:372:MET:HE3	1.83	0.44
1:g:475:SER:HA	1:h:519:ASN:HB2	1.99	0.44
1:h:349:TYR:OH	1:h:643:PRO:O	2.33	0.44
1:k:228:TRP:HB3	1:s:401:SER:HB2	2.00	0.44
1:k:458:GLN:NE2	1:k:460:ARG:HH12	2.14	0.44
1:l:401:SER:HB2	1:r:228:TRP:HB3	2.00	0.44
1:o:475:SER:HA	1:p:519:ASN:HB2	1.98	0.44
1:r:458:GLN:NE2	1:r:460:ARG:HH12	2.14	0.44
1:7:458:GLN:NE2	1:7:460:ARG:HH12	2.14	0.44
1:E:475:SER:HA	1:Q:519:ASN:HB2	1.99	0.44
1:K:519:ASN:HB2	1:7:475:SER:HA	1.99	0.44
1:M:631:PRO:O	1:1:478:TRP:HH2	2.01	0.44
1:O:228:TRP:HB3	1:P:401:SER:HB2	1.99	0.44
1:R:401:SER:HB2	1:V:228:TRP:HB3	2.00	0.44
1:R:451:THR:HG23	1:R:460:ARG:HB3	2.00	0.44
1:R:519:ASN:HB2	1:U:475:SER:HA	1.99	0.44
1:W:475:SER:HA	1:Y:519:ASN:HB2	1.99	0.44
1:Y:228:TRP:HB3	1:x:401:SER:HB2	1.99	0.44
1:Z:475:SER:HA	1:x:519:ASN:HB2	1.99	0.44
1:Z:478:TRP:HH2	1:x:631:PRO:O	2.00	0.44
1:Z:631:PRO:O	1:w:478:TRP:HH2	2.00	0.44
1:2:458:GLN:NE2	1:2:460:ARG:HH12	2.14	0.44
1:4:450:ASN:HD22	1:4:457:THR:HG21	1.82	0.44
1:4:451:THR:HG23	1:4:460:ARG:HB3	2.00	0.44
1:b:228:TRP:HB3	1:c:401:SER:HB2	1.99	0.44
1:b:450:ASN:HD22	1:b:457:THR:HG21	1.82	0.44
1:c:458:GLN:NE2	1:c:460:ARG:HH12	2.14	0.44
1:c:698:GLU:HB2	1:f:298:GLN:HE22	1.81	0.44
1:d:298:GLN:HE22	1:q:698:GLU:HB2	1.81	0.44
1:d:478:TRP:HH2	1:e:631:PRO:O	2.00	0.44
1:e:454:GLY:O	1:e:455:THR:OG1	2.26	0.44
1:h:450:ASN:HD22	1:h:457:THR:HG21	1.82	0.44
1:k:451:THR:HG23	1:k:460:ARG:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:451:THR:HG23	1:m:460:ARG:HB3	2.00	0.44
1:t:450:ASN:HD22	1:t:457:THR:HG21	1.82	0.44
1:w:519:ASN:HB2	1:x:475:SER:HA	1.99	0.44
1:A:519:ASN:HB2	1:I:475:SER:HA	1.99	0.44
1:B:451:THR:HG23	1:B:460:ARG:HB3	2.00	0.44
1:C:631:PRO:O	1:M:478:TRP:HH2	2.01	0.44
1:E:519:ASN:HB2	1:F:475:SER:HA	1.99	0.44
1:E:631:PRO:O	1:F:478:TRP:HH2	2.00	0.44
1:J:450:ASN:HD22	1:J:457:THR:HG21	1.82	0.44
1:L:349:TYR:OH	1:L:643:PRO:O	2.33	0.44
1:L:450:ASN:HD22	1:L:457:THR:HG21	1.82	0.44
1:L:451:THR:HG23	1:L:460:ARG:HB3	2.00	0.44
1:N:451:THR:HG23	1:N:460:ARG:HB3	2.00	0.44
1:Q:228:TRP:HB3	1:S:401:SER:HB2	1.99	0.44
1:Q:451:THR:HG23	1:Q:460:ARG:HB3	2.00	0.44
1:X:451:THR:HG23	1:X:460:ARG:HB3	2.00	0.44
1:Z:454:GLY:O	1:Z:455:THR:OG1	2.26	0.44
1:1:450:ASN:HD22	1:1:457:THR:HG21	1.82	0.44
1:3:450:ASN:HD22	1:3:457:THR:HG21	1.82	0.44
1:3:451:THR:HG23	1:3:460:ARG:HB3	2.00	0.44
1:5:475:SER:HA	1:b:519:ASN:HB2	1.99	0.44
1:5:631:PRO:O	1:a:478:TRP:HH2	2.01	0.44
1:c:631:PRO:O	1:e:478:TRP:HH2	2.00	0.44
1:d:442:TYR:HA	1:d:465:GLN:NE2	2.33	0.44
1:e:458:GLN:NE2	1:e:460:ARG:HH12	2.14	0.44
1:i:458:GLN:NE2	1:i:460:ARG:HH12	2.14	0.44
1:n:349:TYR:OH	1:n:643:PRO:O	2.33	0.44
1:n:450:ASN:HD22	1:n:457:THR:HG21	1.82	0.44
1:r:451:THR:HG23	1:r:460:ARG:HB3	2.00	0.44
1:u:451:THR:HG23	1:u:460:ARG:HB3	2.00	0.44
1:v:228:TRP:HB3	1:w:401:SER:HB2	2.00	0.44
1:w:451:THR:HG23	1:w:460:ARG:HB3	2.00	0.44
1:y:450:ASN:HD22	1:y:457:THR:HG21	1.82	0.44
1:y:451:THR:HG23	1:y:460:ARG:HB3	2.00	0.44
1:y:519:ASN:HB2	1:6:475:SER:HA	1.99	0.44
1:z:450:ASN:HD22	1:z:457:THR:HG21	1.82	0.44
1:C:475:SER:HA	1:1:519:ASN:HB2	1.99	0.44
1:D:519:ASN:HB2	1:P:475:SER:HA	1.99	0.44
1:F:451:THR:HG23	1:F:460:ARG:HB3	2.00	0.44
1:F:631:PRO:O	1:Q:478:TRP:HH2	2.00	0.44
1:J:228:TRP:HB3	1:0:401:SER:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:442:TYR:HA	1:K:465:GLN:NE2	2.33	0.44
1:L:442:TYR:HA	1:L:465:GLN:NE2	2.33	0.44
1:O:519:ASN:HB2	1:h:475:SER:HA	2.00	0.44
1:P:228:TRP:HB3	1:Q:401:SER:HB2	2.00	0.44
1:Q:442:TYR:HA	1:Q:465:GLN:NE2	2.33	0.44
1:S:442:TYR:HA	1:S:465:GLN:NE2	2.33	0.44
1:T:450:ASN:HD22	1:T:457:THR:HG21	1.82	0.44
1:T:475:SER:HA	1:3:519:ASN:HB2	1.99	0.44
1:X:401:SER:HB2	1:5:228:TRP:HB3	2.00	0.44
1:2:478:TRP:HH2	1:i:631:PRO:O	2.00	0.44
1:3:478:TRP:HH2	1:f:631:PRO:O	2.01	0.44
1:4:442:TYR:HA	1:4:465:GLN:NE2	2.33	0.44
1:f:454:GLY:O	1:f:455:THR:OG1	2.26	0.44
1:j:442:TYR:HA	1:j:465:GLN:NE2	2.33	0.44
1:k:475:SER:HA	1:l:519:ASN:HB2	1.99	0.44
1:m:454:GLY:O	1:m:455:THR:OG1	2.26	0.44
1:v:450:ASN:HD22	1:v:457:THR:HG21	1.82	0.44
1:w:228:TRP:HB3	1:7:401:SER:HB2	1.99	0.44
1:w:442:TYR:HA	1:w:465:GLN:NE2	2.33	0.44
1:x:450:ASN:HD22	1:x:457:THR:HG21	1.82	0.44
1:7:442:TYR:HA	1:7:465:GLN:NE2	2.33	0.44
1:B:442:TYR:HA	1:B:465:GLN:NE2	2.33	0.44
1:E:450:ASN:HD22	1:E:457:THR:HG21	1.82	0.44
1:P:450:ASN:HD22	1:P:457:THR:HG21	1.82	0.44
1:S:228:TRP:HB3	1:3:401:SER:HB2	2.00	0.44
1:T:478:TRP:HH2	1:3:631:PRO:O	2.01	0.44
1:U:442:TYR:HA	1:U:465:GLN:NE2	2.33	0.44
1:V:450:ASN:HD22	1:V:457:THR:HG21	1.82	0.44
1:X:442:TYR:HA	1:X:465:GLN:NE2	2.33	0.44
1:Z:451:THR:HG23	1:Z:460:ARG:HB3	2.00	0.44
1:1:228:TRP:HB3	1:i:401:SER:HB2	2.00	0.44
1:1:372:MET:HE3	1:i:663:SER:H	1.83	0.44
1:d:475:SER:HA	1:e:519:ASN:HB2	1.99	0.44
1:k:442:TYR:HA	1:k:465:GLN:NE2	2.33	0.44
1:o:478:TRP:HH2	1:p:631:PRO:O	2.00	0.44
1:r:442:TYR:HA	1:r:465:GLN:NE2	2.33	0.44
1:r:475:SER:HA	1:s:519:ASN:HB2	1.99	0.44
1:t:519:ASN:HB2	1:v:475:SER:HA	2.00	0.44
1:v:451:THR:HG23	1:v:460:ARG:HB3	2.00	0.44
1:y:401:SER:HB2	1:7:228:TRP:HB3	2.00	0.44
1:y:631:PRO:O	1:6:478:TRP:HH2	2.01	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:450:ASN:HD22	1:6:457:THR:HG21	1.82	0.44
1:A:372:MET:HE3	1:E:663:SER:H	1.83	0.44
1:B:401:SER:HB2	1:C:228:TRP:HB3	2.00	0.44
1:C:401:SER:HB2	1:D:228:TRP:HB3	2.00	0.44
1:I:451:THR:HG23	1:I:460:ARG:HB3	2.00	0.44
1:O:475:SER:HA	1:g:519:ASN:HB2	1.99	0.44
1:P:451:THR:HG23	1:P:460:ARG:HB3	2.00	0.44
1:T:631:PRO:O	1:f:478:TRP:HH2	2.01	0.44
1:U:228:TRP:HB3	1:4:401:SER:HB2	2.00	0.44
1:W:451:THR:HG23	1:W:460:ARG:HB3	2.00	0.44
1:4:228:TRP:HB3	1:b:401:SER:HB2	1.99	0.44
1:4:349:TYR:OH	1:4:643:PRO:O	2.33	0.44
1:5:401:SER:HB2	1:t:228:TRP:HB3	2.00	0.44
1:b:372:MET:HE3	1:c:663:SER:H	1.83	0.44
1:g:450:ASN:HD22	1:g:457:THR:HG21	1.82	0.44
1:i:698:GLU:HB2	1:z:298:GLN:HE22	1.81	0.44
1:k:450:ASN:HD22	1:k:457:THR:HG21	1.82	0.44
1:n:663:SER:H	1:s:372:MET:HE3	1.83	0.44
1:r:450:ASN:HD22	1:r:457:THR:HG21	1.82	0.44
1:t:478:TRP:HH2	1:u:631:PRO:O	2.01	0.44
1:A:475:SER:HA	1:G:519:ASN:HB2	2.00	0.44
1:D:478:TRP:HH2	1:N:631:PRO:O	2.01	0.44
1:H:519:ASN:HB2	1:Y:475:SER:HA	2.00	0.44
1:K:228:TRP:HB3	1:L:401:SER:HB2	2.00	0.44
1:K:631:PRO:O	1:7:478:TRP:HH2	2.01	0.44
1:N:442:TYR:HA	1:N:465:GLN:NE2	2.33	0.44
1:R:475:SER:HA	1:S:519:ASN:HB2	2.00	0.44
1:R:631:PRO:O	1:U:478:TRP:HH2	2.01	0.44
1:T:451:THR:HG23	1:T:460:ARG:HB3	2.00	0.44
1:V:519:ASN:HB2	1:X:475:SER:HA	1.99	0.44
1:Y:442:TYR:HA	1:Y:465:GLN:NE2	2.33	0.44
1:2:519:ASN:HB2	1:j:475:SER:HA	1.99	0.44
1:c:451:THR:HG23	1:c:460:ARG:HB3	2.00	0.44
1:d:401:SER:HB2	1:f:228:TRP:HB3	2.00	0.44
1:g:478:TRP:HH2	1:h:631:PRO:O	2.01	0.44
1:h:451:THR:HG23	1:h:460:ARG:HB3	1.99	0.44
1:j:401:SER:HB2	1:z:228:TRP:HB3	2.00	0.44
1:k:631:PRO:O	1:m:478:TRP:HH2	2.01	0.44
1:p:450:ASN:HD22	1:p:457:THR:HG21	1.82	0.44
1:y:478:TRP:HH2	1:z:631:PRO:O	2.01	0.44
1:z:495:ASP:OD2	1:z:533:LYS:NZ	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:450:ASN:HD22	1:7:457:THR:HG21	1.82	0.44
1:A:442:TYR:HA	1:A:465:GLN:NE2	2.33	0.43
1:B:475:SER:HA	1:J:519:ASN:HB2	1.99	0.43
1:B:478:TRP:HH2	1:J:631:PRO:O	2.01	0.43
1:E:442:TYR:HA	1:E:465:GLN:NE2	2.33	0.43
1:H:401:SER:HB2	1:Z:228:TRP:HB3	1.99	0.43
1:J:442:TYR:HA	1:J:465:GLN:NE2	2.33	0.43
1:K:401:SER:HB2	1:6:228:TRP:HB3	2.00	0.43
1:M:450:ASN:HD22	1:M:457:THR:HG21	1.82	0.43
1:M:663:SER:H	1:2:372:MET:HE3	1.83	0.43
1:O:631:PRO:O	1:h:478:TRP:HH2	2.01	0.43
1:S:478:TRP:HH2	1:U:631:PRO:O	2.01	0.43
1:T:372:MET:HE3	1:U:663:SER:H	1.83	0.43
1:T:519:ASN:HB2	1:f:475:SER:HA	2.00	0.43
1:Y:372:MET:HE3	1:x:663:SER:H	1.83	0.43
1:0:442:TYR:HA	1:0:465:GLN:NE2	2.33	0.43
1:0:475:SER:HA	1:7:519:ASN:HB2	2.00	0.43
1:a:663:SER:H	1:e:372:MET:HE3	1.83	0.43
1:h:442:TYR:HA	1:h:465:GLN:NE2	2.33	0.43
1:n:495:ASP:OD2	1:n:533:LYS:NZ	2.34	0.43
1:q:478:TRP:HH2	1:r:631:PRO:O	2.01	0.43
1:u:442:TYR:HA	1:u:465:GLN:NE2	2.33	0.43
1:x:442:TYR:HA	1:x:465:GLN:NE2	2.33	0.43
1:x:451:THR:HG23	1:x:460:ARG:HB3	2.00	0.43
1:z:451:THR:HG23	1:z:460:ARG:HB3	2.00	0.43
1:z:478:TRP:HH2	1:6:631:PRO:O	2.01	0.43
1:6:451:THR:HG23	1:6:460:ARG:HB3	2.00	0.43
1:H:478:TRP:HH2	1:W:631:PRO:O	2.01	0.43
1:J:451:THR:HG23	1:J:460:ARG:HB3	2.00	0.43
1:K:478:TRP:HH2	1:0:631:PRO:O	2.01	0.43
1:L:228:TRP:HB3	1:1:401:SER:HB2	1.99	0.43
1:O:478:TRP:HH2	1:g:631:PRO:O	2.01	0.43
1:P:442:TYR:HA	1:P:465:GLN:NE2	2.33	0.43
1:S:372:MET:HE3	1:3:663:SER:H	1.83	0.43
1:S:450:ASN:HD22	1:S:457:THR:HG21	1.82	0.43
1:T:228:TRP:HB3	1:U:401:SER:HB2	2.00	0.43
1:V:631:PRO:O	1:X:478:TRP:HH2	2.01	0.43
1:Z:442:TYR:HA	1:Z:465:GLN:NE2	2.33	0.43
1:a:450:ASN:HD22	1:a:457:THR:HG21	1.82	0.43
1:f:401:SER:HB2	1:h:228:TRP:HB3	1.99	0.43
1:f:451:THR:HG23	1:f:460:ARG:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:349:TYR:OH	1:k:643:PRO:O	2.33	0.43
1:n:451:THR:HG23	1:n:460:ARG:HB3	2.00	0.43
1:o:450:ASN:HD22	1:o:457:THR:HG21	1.82	0.43
1:v:442:TYR:HA	1:v:465:GLN:NE2	2.33	0.43
1:y:663:SER:H	1:7:372:MET:HE3	1.84	0.43
1:z:475:SER:HA	1:6:519:ASN:HB2	2.00	0.43
1:A:450:ASN:HD22	1:A:457:THR:HG21	1.82	0.43
1:E:451:THR:HG23	1:E:460:ARG:HB3	2.00	0.43
1:E:454:GLY:O	1:E:455:THR:OG1	2.26	0.43
1:F:228:TRP:HB3	1:G:401:SER:HB2	1.99	0.43
1:F:372:MET:HE3	1:G:663:SER:H	1.84	0.43
1:F:442:TYR:HA	1:F:465:GLN:NE2	2.33	0.43
1:F:450:ASN:HD22	1:F:457:THR:HG21	1.82	0.43
1:G:478:TRP:HH2	1:I:631:PRO:O	2.01	0.43
1:H:663:SER:H	1:Z:372:MET:HE3	1.84	0.43
1:K:372:MET:HE3	1:L:663:SER:H	1.83	0.43
1:M:228:TRP:HB3	1:N:401:SER:HB2	2.00	0.43
1:R:442:TYR:HA	1:R:465:GLN:NE2	2.33	0.43
1:U:372:MET:HE3	1:4:663:SER:H	1.83	0.43
1:V:442:TYR:HA	1:V:465:GLN:NE2	2.33	0.43
1:1:451:THR:HG23	1:1:460:ARG:HB3	2.00	0.43
1:a:228:TRP:HB3	1:u:401:SER:HB2	2.00	0.43
1:a:451:THR:HG23	1:a:460:ARG:HB3	2.00	0.43
1:c:478:TRP:HH2	1:d:631:PRO:O	2.00	0.43
1:d:372:MET:HE3	1:r:663:SER:H	1.83	0.43
1:d:451:THR:HG23	1:d:460:ARG:HB3	2.00	0.43
1:i:451:THR:HG23	1:i:460:ARG:HB3	2.00	0.43
1:i:478:TRP:HH2	1:j:631:PRO:O	2.00	0.43
1:j:450:ASN:HD22	1:j:457:THR:HG21	1.82	0.43
1:j:451:THR:HG23	1:j:460:ARG:HB3	2.00	0.43
1:k:454:GLY:O	1:k:455:THR:OG1	2.26	0.43
1:n:372:MET:HE3	1:z:663:SER:H	1.84	0.43
1:n:442:TYR:HA	1:n:465:GLN:NE2	2.33	0.43
1:q:450:ASN:HD22	1:q:457:THR:HG21	1.82	0.43
1:q:519:ASN:HB2	1:s:475:SER:HA	1.99	0.43
1:r:349:TYR:OH	1:r:643:PRO:O	2.33	0.43
1:H:228:TRP:HB3	1:I:401:SER:HB2	2.00	0.43
1:K:663:SER:H	1:6:372:MET:HE3	1.84	0.43
1:M:451:THR:HG23	1:M:460:ARG:HB3	2.00	0.43
1:O:450:ASN:HD22	1:O:457:THR:HG21	1.82	0.43
1:T:401:SER:HB2	1:c:228:TRP:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:451:THR:HG23	1:V:460:ARG:HB3	2.00	0.43
1:X:663:SER:H	1:5:372:MET:HE3	1.83	0.43
1:Y:450:ASN:HD22	1:Y:457:THR:HG21	1.82	0.43
1:Z:663:SER:H	1:0:372:MET:HE3	1.83	0.43
1:0:478:TRP:HH2	1:7:631:PRO:O	2.01	0.43
1:b:451:THR:HG23	1:b:460:ARG:HB3	2.00	0.43
1:f:663:SER:H	1:h:372:MET:HE3	1.84	0.43
1:g:228:TRP:HB3	1:m:401:SER:HB2	2.00	0.43
1:i:228:TRP:HB3	1:6:401:SER:HB2	1.99	0.43
1:j:372:MET:HE3	1:k:663:SER:H	1.84	0.43
1:l:442:TYR:HA	1:l:465:GLN:NE2	2.33	0.43
1:l:475:SER:HA	1:m:519:ASN:HB2	1.99	0.43
1:t:451:THR:HG23	1:t:460:ARG:HB3	2.00	0.43
1:t:663:SER:H	1:x:372:MET:HE3	1.83	0.43
1:y:495:ASP:OD2	1:y:533:LYS:NZ	2.34	0.43
1:6:442:TYR:HA	1:6:465:GLN:NE2	2.33	0.43
1:B:663:SER:H	1:C:372:MET:HE3	1.83	0.43
1:D:663:SER:H	1:E:372:MET:HE3	1.83	0.43
1:G:228:TRP:HB3	1:W:401:SER:HB2	2.00	0.43
1:O:372:MET:HE3	1:P:663:SER:H	1.84	0.43
1:R:450:ASN:HD22	1:R:457:THR:HG21	1.82	0.43
1:V:663:SER:H	1:W:372:MET:HE3	1.83	0.43
1:Z:349:TYR:OH	1:Z:643:PRO:O	2.33	0.43
1:Z:450:ASN:HD22	1:Z:457:THR:HG21	1.82	0.43
1:3:495:ASP:OD2	1:3:533:LYS:NZ	2.34	0.43
1:h:663:SER:H	1:l:372:MET:HE3	1.84	0.43
1:m:450:ASN:HD22	1:m:457:THR:HG21	1.82	0.43
1:x:454:GLY:O	1:x:455:THR:OG1	2.26	0.43
1:y:442:TYR:HA	1:y:465:GLN:NE2	2.33	0.43
1:D:451:THR:HG23	1:D:460:ARG:HB3	2.00	0.43
1:F:349:TYR:OH	1:F:643:PRO:O	2.33	0.43
1:F:519:ASN:HB2	1:Q:475:SER:HA	1.99	0.43
1:F:663:SER:H	1:R:372:MET:HE3	1.83	0.43
1:K:451:THR:HG23	1:K:460:ARG:HB3	2.00	0.43
1:R:349:TYR:OH	1:R:643:PRO:O	2.33	0.43
1:R:478:TRP:HH2	1:S:631:PRO:O	2.01	0.43
1:T:442:TYR:HA	1:T:465:GLN:NE2	2.33	0.43
1:0:450:ASN:HD22	1:0:457:THR:HG21	1.82	0.43
1:1:442:TYR:HA	1:1:465:GLN:NE2	2.33	0.43
1:b:442:TYR:HA	1:b:465:GLN:NE2	2.33	0.43
1:d:228:TRP:HB3	1:r:401:SER:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:450:ASN:HD22	1:d:457:THR:HG21	1.82	0.43
1:k:478:TRP:HH2	1:l:631:PRO:O	2.01	0.43
1:l:450:ASN:HD22	1:l:457:THR:HG21	1.82	0.43
1:o:401:SER:HB2	1:y:228:TRP:HB3	1.99	0.43
1:o:442:TYR:HA	1:o:465:GLN:NE2	2.33	0.43
1:o:663:SER:H	1:y:372:MET:HE3	1.83	0.43
1:r:478:TRP:HH2	1:s:631:PRO:O	2.01	0.43
1:C:451:THR:HG23	1:C:460:ARG:HB3	2.00	0.43
1:F:370:VAL:HG11	1:G:655:PRO:HG3	2.01	0.43
1:H:655:PRO:HG3	1:Z:370:VAL:HG11	2.01	0.43
1:I:372:MET:HE3	1:J:663:SER:H	1.83	0.43
1:J:372:MET:HE3	1:O:663:SER:H	1.84	0.43
1:O:442:TYR:HA	1:O:465:GLN:NE2	2.33	0.43
1:Z:519:ASN:HB2	1:w:475:SER:HA	1.99	0.43
1:3:442:TYR:HA	1:3:465:GLN:NE2	2.33	0.43
1:5:451:THR:HG23	1:5:460:ARG:HB3	2.00	0.43
1:e:442:TYR:HA	1:e:465:GLN:NE2	2.33	0.43
1:i:370:VAL:HG11	1:6:655:PRO:HG3	2.01	0.43
1:k:372:MET:HE3	1:s:663:SER:H	1.83	0.43
1:l:451:THR:HG23	1:l:460:ARG:HB3	2.00	0.43
1:l:663:SER:H	1:r:372:MET:HE3	1.83	0.43
1:n:228:TRP:HB3	1:z:401:SER:HB2	2.00	0.43
1:p:228:TRP:HB3	1:q:401:SER:HB2	2.00	0.43
1:s:442:TYR:HA	1:s:465:GLN:NE2	2.33	0.43
1:t:442:TYR:HA	1:t:465:GLN:NE2	2.33	0.43
1:v:454:GLY:O	1:v:455:THR:OG1	2.26	0.43
1:7:451:THR:HG23	1:7:460:ARG:HB3	2.00	0.43
1:I:228:TRP:HB3	1:J:401:SER:HB2	2.00	0.43
1:M:372:MET:HE3	1:N:663:SER:H	1.83	0.43
1:O:663:SER:H	1:3:372:MET:HE3	1.83	0.43
1:S:370:VAL:HG11	1:3:655:PRO:HG3	2.01	0.43
1:T:655:PRO:HG3	1:c:370:VAL:HG11	2.01	0.43
1:U:451:THR:HG23	1:U:460:ARG:HB3	2.00	0.43
1:2:442:TYR:HA	1:2:465:GLN:NE2	2.33	0.43
1:a:372:MET:HE3	1:u:663:SER:H	1.83	0.43
1:f:655:PRO:HG3	1:h:370:VAL:HG11	2.01	0.43
1:g:372:MET:HE3	1:m:663:SER:H	1.84	0.43
1:i:450:ASN:HD22	1:i:457:THR:HG21	1.82	0.43
1:j:228:TRP:HB3	1:k:401:SER:HB2	1.99	0.43
1:m:442:TYR:HA	1:m:465:GLN:NE2	2.33	0.43
1:o:372:MET:HE3	1:v:663:SER:H	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:370:VAL:HG11	1:q:655:PRO:HG3	2.01	0.43
1:s:450:ASN:HD22	1:s:457:THR:HG21	1.82	0.43
1:v:372:MET:HE3	1:w:663:SER:H	1.83	0.43
1:D:442:TYR:HA	1:D:465:GLN:NE2	2.33	0.43
1:D:631:PRO:O	1:P:478:TRP:HH2	2.01	0.43
1:G:442:TYR:HA	1:G:465:GLN:NE2	2.33	0.43
1:O:401:SER:HB2	1:3:228:TRP:HB3	2.00	0.43
1:P:372:MET:HE3	1:Q:663:SER:H	1.83	0.43
1:S:451:THR:HG23	1:S:460:ARG:HB3	2.00	0.43
1:V:401:SER:HB2	1:W:228:TRP:HB3	2.00	0.43
1:O:349:TYR:OH	1:O:643:PRO:O	2.33	0.43
1:5:663:SER:H	1:t:372:MET:HE3	1.83	0.43
1:c:442:TYR:HA	1:c:465:GLN:NE2	2.33	0.43
1:c:450:ASN:HD22	1:c:457:THR:HG21	1.82	0.43
1:l:478:TRP:HH2	1:m:631:PRO:O	2.01	0.43
1:n:370:VAL:HG11	1:z:655:PRO:HG3	2.01	0.43
1:q:442:TYR:HA	1:q:465:GLN:NE2	2.33	0.43
1:s:451:THR:HG23	1:s:460:ARG:HB3	2.00	0.43
1:t:475:SER:HA	1:u:519:ASN:HB2	1.99	0.43
1:u:478:TRP:HH2	1:v:631:PRO:O	2.01	0.43
1:y:655:PRO:HG3	1:7:370:VAL:HG11	2.01	0.43
1:D:475:SER:HA	1:N:519:ASN:HB2	1.99	0.43
1:H:349:TYR:OH	1:H:643:PRO:O	2.33	0.43
1:H:442:TYR:HA	1:H:465:GLN:NE2	2.33	0.43
1:H:631:PRO:O	1:Y:478:TRP:HH2	2.01	0.43
1:N:478:TRP:HH2	1:P:631:PRO:O	2.00	0.43
1:Q:370:VAL:HG11	1:S:655:PRO:HG3	2.01	0.43
1:R:663:SER:H	1:V:372:MET:HE3	1.84	0.43
1:W:442:TYR:HA	1:W:465:GLN:NE2	2.33	0.43
1:c:349:TYR:OH	1:c:643:PRO:O	2.33	0.43
1:q:631:PRO:O	1:s:478:TRP:HH2	2.01	0.43
1:C:663:SER:H	1:D:372:MET:HE3	1.83	0.42
1:L:366:PHE:HA	1:L:367:PRO:HD3	1.93	0.42
1:M:442:TYR:HA	1:M:465:GLN:NE2	2.33	0.42
1:O:451:THR:HG23	1:O:460:ARG:HB3	2.00	0.42
1:p:663:SER:H	1:u:372:MET:HE3	1.83	0.42
1:w:370:VAL:HG11	1:7:655:PRO:HG3	2.01	0.42
1:A:478:TRP:HH2	1:G:631:PRO:O	2.01	0.42
1:M:366:PHE:HA	1:M:367:PRO:HD3	1.93	0.42
1:M:519:ASN:HB2	1:1:475:SER:HA	2.00	0.42
1:2:401:SER:HB2	1:m:228:TRP:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:519:ASN:HB2	1:b:475:SER:HA	2.00	0.42
1:e:401:SER:HB2	1:q:228:TRP:HB3	1.99	0.42
1:g:442:TYR:HA	1:g:465:GLN:NE2	2.33	0.42
1:h:401:SER:HB2	1:l:228:TRP:HB3	2.00	0.42
1:i:442:TYR:HA	1:i:465:GLN:NE2	2.33	0.42
1:n:401:SER:HB2	1:s:228:TRP:HB3	2.00	0.42
1:o:451:THR:HG23	1:o:460:ARG:HB3	2.00	0.42
1:t:631:PRO:O	1:v:478:TRP:HH2	2.01	0.42
1:A:451:THR:HG23	1:A:460:ARG:HB3	2.00	0.42
1:G:370:VAL:HG11	1:W:655:PRO:HG3	2.01	0.42
1:I:349:TYR:OH	1:I:643:PRO:O	2.32	0.42
1:I:442:TYR:HA	1:I:465:GLN:NE2	2.33	0.42
1:K:370:VAL:HG11	1:L:655:PRO:HG3	2.01	0.42
1:M:370:VAL:HG11	1:N:655:PRO:HG3	2.01	0.42
1:P:454:GLY:O	1:P:455:THR:OG1	2.26	0.42
1:R:655:PRO:HG3	1:V:370:VAL:HG11	2.01	0.42
1:Y:451:THR:HG23	1:Y:460:ARG:HB3	2.00	0.42
1:a:370:VAL:HG11	1:u:655:PRO:HG3	2.01	0.42
1:a:442:TYR:HA	1:a:465:GLN:NE2	2.33	0.42
1:g:370:VAL:HG11	1:m:655:PRO:HG3	2.01	0.42
1:i:349:TYR:OH	1:i:643:PRO:O	2.33	0.42
1:p:442:TYR:HA	1:p:465:GLN:NE2	2.33	0.42
1:D:655:PRO:HG3	1:E:370:VAL:HG11	2.01	0.42
1:G:349:TYR:OH	1:G:643:PRO:O	2.33	0.42
1:I:280:TRP:CD1	1:I:396:LEU:HD12	2.55	0.42
1:L:280:TRP:CD1	1:L:396:LEU:HD12	2.55	0.42
1:O:655:PRO:HG3	1:3:370:VAL:HG11	2.01	0.42
1:U:370:VAL:HG11	1:4:655:PRO:HG3	2.02	0.42
1:W:280:TRP:CD1	1:W:396:LEU:HD12	2.55	0.42
1:X:372:MET:HE3	1:Y:663:SER:H	1.84	0.42
1:4:280:TRP:CD1	1:4:396:LEU:HD12	2.55	0.42
1:o:655:PRO:HG3	1:y:370:VAL:HG11	2.01	0.42
1:p:372:MET:HE3	1:q:663:SER:H	1.84	0.42
1:q:280:TRP:CD1	1:q:396:LEU:HD12	2.55	0.42
1:A:280:TRP:CD1	1:A:396:LEU:HD12	2.55	0.42
1:H:370:VAL:HG11	1:I:655:PRO:HG3	2.01	0.42
1:J:495:ASP:OD2	1:J:533:LYS:NZ	2.34	0.42
1:L:370:VAL:HG11	1:l:655:PRO:HG3	2.01	0.42
1:N:280:TRP:CD1	1:N:396:LEU:HD12	2.55	0.42
1:N:372:MET:HE3	1:g:663:SER:H	1.83	0.42
1:O:289:HIS:HD2	1:O:365:PRO:HA	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:372:MET:HE3	1:S:663:SER:H	1.83	0.42
1:R:280:TRP:CD1	1:R:396:LEU:HD12	2.55	0.42
1:W:349:TYR:OH	1:W:643:PRO:O	2.33	0.42
1:Y:280:TRP:CD1	1:Y:396:LEU:HD12	2.55	0.42
1:0:280:TRP:CD1	1:0:396:LEU:HD12	2.55	0.42
1:2:655:PRO:HG3	1:m:370:VAL:HG11	2.02	0.42
1:5:442:TYR:HA	1:5:465:GLN:NE2	2.33	0.42
1:d:663:SER:H	1:f:372:MET:HE3	1.82	0.42
1:e:280:TRP:CD1	1:e:396:LEU:HD12	2.55	0.42
1:e:655:PRO:HG3	1:q:370:VAL:HG11	2.02	0.42
1:k:289:HIS:HD2	1:k:365:PRO:HA	1.85	0.42
1:m:280:TRP:CD1	1:m:396:LEU:HD12	2.55	0.42
1:r:289:HIS:HD2	1:r:365:PRO:HA	1.85	0.42
1:t:655:PRO:HG3	1:x:370:VAL:HG11	2.01	0.42
1:u:280:TRP:CD1	1:u:396:LEU:HD12	2.55	0.42
1:w:372:MET:HE3	1:7:663:SER:H	1.83	0.42
1:A:289:HIS:HD2	1:A:365:PRO:HA	1.85	0.42
1:A:663:SER:H	1:B:372:MET:HE3	1.84	0.42
1:C:442:TYR:HA	1:C:465:GLN:NE2	2.33	0.42
1:C:655:PRO:HG3	1:D:370:VAL:HG11	2.01	0.42
1:J:370:VAL:HG11	1:0:655:PRO:HG3	2.01	0.42
1:K:280:TRP:CD1	1:K:396:LEU:HD12	2.55	0.42
1:L:289:HIS:HD2	1:L:365:PRO:HA	1.85	0.42
1:U:280:TRP:CD1	1:U:396:LEU:HD12	2.55	0.42
1:Y:289:HIS:HD2	1:Y:365:PRO:HA	1.85	0.42
1:2:280:TRP:CD1	1:2:396:LEU:HD12	2.55	0.42
1:4:289:HIS:HD2	1:4:365:PRO:HA	1.85	0.42
1:4:366:PHE:HA	1:4:367:PRO:HD3	1.93	0.42
1:4:372:MET:HE3	1:b:663:SER:H	1.84	0.42
1:5:655:PRO:HG3	1:t:370:VAL:HG11	2.01	0.42
1:a:280:TRP:CD1	1:a:396:LEU:HD12	2.55	0.42
1:g:280:TRP:CD1	1:g:396:LEU:HD12	2.55	0.42
1:o:289:HIS:HD2	1:o:365:PRO:HA	1.85	0.42
1:p:280:TRP:CD1	1:p:396:LEU:HD12	2.55	0.42
1:y:349:TYR:OH	1:y:643:PRO:O	2.32	0.42
1:K:289:HIS:HD2	1:K:365:PRO:HA	1.85	0.42
1:M:280:TRP:CD1	1:M:396:LEU:HD12	2.55	0.42
1:U:289:HIS:HD2	1:U:365:PRO:HA	1.85	0.42
1:1:289:HIS:HD2	1:1:365:PRO:HA	1.85	0.42
1:4:370:VAL:HG11	1:b:655:PRO:HG3	2.01	0.42
1:a:366:PHE:HA	1:a:367:PRO:HD3	1.93	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:289:HIS:HD2	1:b:365:PRO:HA	1.85	0.42
1:b:366:PHE:HA	1:b:367:PRO:HD3	1.93	0.42
1:l:280:TRP:CD1	1:l:396:LEU:HD12	2.55	0.42
1:p:655:PRO:HG3	1:u:370:VAL:HG11	2.01	0.42
1:r:280:TRP:CD1	1:r:396:LEU:HD12	2.55	0.42
1:s:280:TRP:CD1	1:s:396:LEU:HD12	2.55	0.42
1:v:349:TYR:OH	1:v:643:PRO:O	2.33	0.42
1:F:280:TRP:CD1	1:F:396:LEU:HD12	2.55	0.42
1:M:289:HIS:HD2	1:M:365:PRO:HA	1.85	0.42
1:Q:289:HIS:HD2	1:Q:365:PRO:HA	1.85	0.42
1:Z:280:TRP:CD1	1:Z:396:LEU:HD12	2.55	0.42
1:a:289:HIS:HD2	1:a:365:PRO:HA	1.85	0.42
1:j:280:TRP:CD1	1:j:396:LEU:HD12	2.55	0.42
1:j:663:SER:H	1:z:372:MET:HE3	1.83	0.42
1:k:280:TRP:CD1	1:k:396:LEU:HD12	2.55	0.42
1:G:372:MET:HE3	1:W:663:SER:H	1.84	0.42
1:L:372:MET:HE3	1:l:663:SER:H	1.84	0.42
1:N:370:VAL:HG11	1:g:655:PRO:HG3	2.01	0.42
1:P:370:VAL:HG11	1:Q:655:PRO:HG3	2.02	0.42
1:V:495:ASP:OD2	1:V:533:LYS:NZ	2.34	0.42
1:X:485:ARG:HD3	1:4:581:SER:O	2.20	0.42
1:Y:370:VAL:HG11	1:x:655:PRO:HG3	2.02	0.42
1:Z:655:PRO:HG3	1:0:370:VAL:HG11	2.02	0.42
1:d:280:TRP:CD1	1:d:396:LEU:HD12	2.55	0.42
1:h:655:PRO:HG3	1:l:370:VAL:HG11	2.01	0.42
1:j:289:HIS:HD2	1:j:365:PRO:HA	1.85	0.42
1:n:485:ARG:HD3	1:p:581:SER:O	2.20	0.42
1:s:289:HIS:HD2	1:s:365:PRO:HA	1.85	0.42
1:w:289:HIS:HD2	1:w:365:PRO:HA	1.85	0.42
1:A:370:VAL:HG11	1:E:655:PRO:HG3	2.02	0.42
1:B:405:ARG:H	1:B:408:ASN:HD22	1.68	0.42
1:B:485:ARG:HD3	1:L:581:SER:O	2.20	0.42
1:F:655:PRO:HG3	1:R:370:VAL:HG11	2.02	0.42
1:H:372:MET:HE3	1:I:663:SER:H	1.84	0.42
1:N:289:HIS:HD2	1:N:365:PRO:HA	1.85	0.42
1:0:405:ARG:H	1:0:408:ASN:HD22	1.68	0.42
1:1:366:PHE:HA	1:1:367:PRO:HD3	1.93	0.42
1:p:289:HIS:HD2	1:p:365:PRO:HA	1.85	0.42
1:r:405:ARG:H	1:r:408:ASN:HD22	1.68	0.42
1:v:370:VAL:HG11	1:w:655:PRO:HG3	2.02	0.42
1:x:280:TRP:CD1	1:x:396:LEU:HD12	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:280:TRP:CD1	1:C:396:LEU:HD12	2.55	0.41
1:C:405:ARG:H	1:C:408:ASN:HD22	1.68	0.41
1:D:280:TRP:CD1	1:D:396:LEU:HD12	2.55	0.41
1:D:289:HIS:HD2	1:D:365:PRO:HA	1.85	0.41
1:E:280:TRP:CD1	1:E:396:LEU:HD12	2.55	0.41
1:E:289:HIS:HD2	1:E:365:PRO:HA	1.85	0.41
1:E:357:SER:HB2	1:E:359:HIS:CD2	2.55	0.41
1:E:366:PHE:HA	1:E:367:PRO:HD3	1.93	0.41
1:G:289:HIS:HD2	1:G:365:PRO:HA	1.85	0.41
1:H:405:ARG:H	1:H:408:ASN:HD22	1.68	0.41
1:I:405:ARG:H	1:I:408:ASN:HD22	1.68	0.41
1:M:655:PRO:HG3	1:2:370:VAL:HG11	2.01	0.41
1:P:349:TYR:OH	1:P:643:PRO:O	2.33	0.41
1:R:289:HIS:HD2	1:R:365:PRO:HA	1.85	0.41
1:R:405:ARG:H	1:R:408:ASN:HD22	1.68	0.41
1:X:655:PRO:HG3	1:5:370:VAL:HG11	2.01	0.41
1:Z:405:ARG:H	1:Z:408:ASN:HD22	1.68	0.41
1:0:289:HIS:HD2	1:0:365:PRO:HA	1.85	0.41
1:5:405:ARG:H	1:5:408:ASN:HD22	1.68	0.41
1:d:289:HIS:HD2	1:d:365:PRO:HA	1.85	0.41
1:k:405:ARG:H	1:k:408:ASN:HD22	1.68	0.41
1:l:289:HIS:HD2	1:l:365:PRO:HA	1.85	0.41
1:p:405:ARG:H	1:p:408:ASN:HD22	1.68	0.41
1:t:289:HIS:HD2	1:t:365:PRO:HA	1.85	0.41
1:u:289:HIS:HD2	1:u:365:PRO:HA	1.85	0.41
1:x:289:HIS:HD2	1:x:365:PRO:HA	1.85	0.41
1:7:289:HIS:HD2	1:7:365:PRO:HA	1.85	0.41
1:B:357:SER:HB2	1:B:359:HIS:CD2	2.56	0.41
1:F:405:ARG:H	1:F:408:ASN:HD22	1.68	0.41
1:H:280:TRP:CD1	1:H:396:LEU:HD12	2.55	0.41
1:H:289:HIS:HD2	1:H:365:PRO:HA	1.85	0.41
1:K:655:PRO:HG3	1:6:370:VAL:HG11	2.01	0.41
1:P:280:TRP:CD1	1:P:396:LEU:HD12	2.55	0.41
1:S:289:HIS:HD2	1:S:365:PRO:HA	1.85	0.41
1:T:663:SER:H	1:c:372:MET:HE3	1.84	0.41
1:X:357:SER:HB2	1:X:359:HIS:CD2	2.56	0.41
1:2:357:SER:HB2	1:2:359:HIS:CD2	2.55	0.41
1:3:280:TRP:CD1	1:3:396:LEU:HD12	2.55	0.41
1:3:289:HIS:HD2	1:3:365:PRO:HA	1.85	0.41
1:5:280:TRP:CD1	1:5:396:LEU:HD12	2.55	0.41
1:a:655:PRO:HG3	1:e:370:VAL:HG11	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:357:SER:HB2	1:c:359:HIS:CD2	2.56	0.41
1:c:581:SER:O	1:d:485:ARG:HD3	2.21	0.41
1:e:357:SER:HB2	1:e:359:HIS:CD2	2.55	0.41
1:f:289:HIS:HD2	1:f:365:PRO:HA	1.85	0.41
1:g:405:ARG:H	1:g:408:ASN:HD22	1.68	0.41
1:i:372:MET:HE3	1:6:663:SER:H	1.83	0.41
1:i:581:SER:O	1:j:485:ARG:HD3	2.20	0.41
1:k:370:VAL:HG11	1:s:655:PRO:HG3	2.01	0.41
1:n:655:PRO:HG3	1:s:370:VAL:HG11	2.01	0.41
1:o:581:SER:O	1:p:485:ARG:HD3	2.20	0.41
1:t:280:TRP:CD1	1:t:396:LEU:HD12	2.55	0.41
1:x:357:SER:HB2	1:x:359:HIS:CD2	2.55	0.41
1:y:289:HIS:HD2	1:y:365:PRO:HA	1.85	0.41
1:z:280:TRP:CD1	1:z:396:LEU:HD12	2.55	0.41
1:z:289:HIS:HD2	1:z:365:PRO:HA	1.85	0.41
1:B:422:HIS:NE2	1:B:729:THR:HG21	2.36	0.41
1:B:655:PRO:HG3	1:C:370:VAL:HG11	2.01	0.41
1:E:581:SER:O	1:Q:485:ARG:HD3	2.21	0.41
1:G:280:TRP:CD1	1:G:396:LEU:HD12	2.55	0.41
1:G:405:ARG:H	1:G:408:ASN:HD22	1.68	0.41
1:J:280:TRP:CD1	1:J:396:LEU:HD12	2.55	0.41
1:P:357:SER:HB2	1:P:359:HIS:CD2	2.56	0.41
1:Q:280:TRP:CD1	1:Q:396:LEU:HD12	2.55	0.41
1:S:280:TRP:CD1	1:S:396:LEU:HD12	2.55	0.41
1:T:370:VAL:HG11	1:U:655:PRO:HG3	2.01	0.41
1:V:280:TRP:CD1	1:V:396:LEU:HD12	2.55	0.41
1:W:405:ARG:H	1:W:408:ASN:HD22	1.68	0.41
1:X:405:ARG:H	1:X:408:ASN:HD22	1.68	0.41
1:f:280:TRP:CD1	1:f:396:LEU:HD12	2.55	0.41
1:f:442:TYR:HA	1:f:465:GLN:NE2	2.33	0.41
1:g:289:HIS:HD2	1:g:365:PRO:HA	1.85	0.41
1:i:280:TRP:CD1	1:i:396:LEU:HD12	2.55	0.41
1:i:357:SER:HB2	1:i:359:HIS:CD2	2.56	0.41
1:j:370:VAL:HG11	1:k:655:PRO:HG3	2.01	0.41
1:r:357:SER:HB2	1:r:359:HIS:CD2	2.55	0.41
1:v:280:TRP:CD1	1:v:396:LEU:HD12	2.55	0.41
1:v:357:SER:HB2	1:v:359:HIS:CD2	2.56	0.41
1:v:405:ARG:H	1:v:408:ASN:HD22	1.68	0.41
1:w:280:TRP:CD1	1:w:396:LEU:HD12	2.55	0.41
1:w:357:SER:HB2	1:w:359:HIS:CD2	2.56	0.41
1:w:485:ARG:HD3	1:x:581:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:280:TRP:CD1	1:7:396:LEU:HD12	2.55	0.41
1:A:422:HIS:NE2	1:A:729:THR:HG21	2.36	0.41
1:B:280:TRP:CD1	1:B:396:LEU:HD12	2.55	0.41
1:J:289:HIS:HD2	1:J:365:PRO:HA	1.85	0.41
1:O:370:VAL:HG11	1:P:655:PRO:HG3	2.01	0.41
1:P:405:ARG:H	1:P:408:ASN:HD22	1.68	0.41
1:Q:357:SER:HB2	1:Q:359:HIS:CD2	2.56	0.41
1:T:405:ARG:H	1:T:408:ASN:HD22	1.68	0.41
1:U:422:HIS:NE2	1:U:729:THR:HG21	2.36	0.41
1:V:405:ARG:H	1:V:408:ASN:HD22	1.68	0.41
1:X:422:HIS:NE2	1:X:729:THR:HG21	2.36	0.41
1:1:280:TRP:CD1	1:1:396:LEU:HD12	2.55	0.41
1:2:405:ARG:H	1:2:408:ASN:HD22	1.68	0.41
1:c:280:TRP:CD1	1:c:396:LEU:HD12	2.55	0.41
1:c:289:HIS:HD2	1:c:365:PRO:HA	1.85	0.41
1:d:370:VAL:HG11	1:r:655:PRO:HG3	2.01	0.41
1:h:289:HIS:HD2	1:h:365:PRO:HA	1.85	0.41
1:k:357:SER:HB2	1:k:359:HIS:CD2	2.56	0.41
1:l:655:PRO:HG3	1:r:370:VAL:HG11	2.01	0.41
1:n:289:HIS:HD2	1:n:365:PRO:HA	1.85	0.41
1:t:405:ARG:H	1:t:408:ASN:HD22	1.68	0.41
1:w:454:GLY:O	1:w:455:THR:OG1	2.26	0.41
1:y:280:TRP:CD1	1:y:396:LEU:HD12	2.55	0.41
1:z:442:TYR:HA	1:z:465:GLN:NE2	2.33	0.41
1:K:422:HIS:NE2	1:K:729:THR:HG21	2.36	0.41
1:L:357:SER:HB2	1:L:359:HIS:CD2	2.56	0.41
1:L:405:ARG:H	1:L:408:ASN:HD22	1.68	0.41
1:V:289:HIS:HD2	1:V:365:PRO:HA	1.85	0.41
1:X:280:TRP:CD1	1:X:396:LEU:HD12	2.55	0.41
1:Y:422:HIS:NE2	1:Y:729:THR:HG21	2.36	0.41
1:1:357:SER:HB2	1:1:359:HIS:CD2	2.56	0.41
1:1:422:HIS:NE2	1:1:729:THR:HG21	2.36	0.41
1:4:405:ARG:H	1:4:408:ASN:HD22	1.68	0.41
1:b:280:TRP:CD1	1:b:396:LEU:HD12	2.55	0.41
1:b:357:SER:HB2	1:b:359:HIS:CD2	2.56	0.41
1:d:405:ARG:H	1:d:408:ASN:HD22	1.68	0.41
1:e:405:ARG:H	1:e:408:ASN:HD22	1.68	0.41
1:g:581:SER:O	1:h:485:ARG:HD3	2.21	0.41
1:h:422:HIS:NE2	1:h:729:THR:HG21	2.36	0.41
1:n:422:HIS:NE2	1:n:729:THR:HG21	2.36	0.41
1:o:370:VAL:HG11	1:v:655:PRO:HG3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:289:HIS:HD2	1:q:365:PRO:HA	1.85	0.41
1:x:366:PHE:HA	1:x:367:PRO:HD3	1.93	0.41
1:A:357:SER:HB2	1:A:359:HIS:CD2	2.56	0.41
1:D:405:ARG:H	1:D:408:ASN:HD22	1.68	0.41
1:I:370:VAL:HG11	1:J:655:PRO:HG3	2.01	0.41
1:M:357:SER:HB2	1:M:359:HIS:CD2	2.55	0.41
1:O:280:TRP:CD1	1:O:396:LEU:HD12	2.55	0.41
1:O:581:SER:O	1:g:485:ARG:HD3	2.20	0.41
1:V:655:PRO:HG3	1:W:370:VAL:HG11	2.01	0.41
1:W:422:HIS:NE2	1:W:729:THR:HG21	2.36	0.41
1:Y:357:SER:HB2	1:Y:359:HIS:CD2	2.56	0.41
1:3:357:SER:HB2	1:3:359:HIS:CD2	2.55	0.41
1:4:357:SER:HB2	1:4:359:HIS:CD2	2.56	0.41
1:b:422:HIS:NE2	1:b:729:THR:HG21	2.36	0.41
1:e:289:HIS:HD2	1:e:365:PRO:HA	1.85	0.41
1:k:422:HIS:NE2	1:k:729:THR:HG21	2.36	0.41
1:m:289:HIS:HD2	1:m:365:PRO:HA	1.85	0.41
1:o:357:SER:HB2	1:o:359:HIS:CD2	2.56	0.41
1:r:422:HIS:NE2	1:r:729:THR:HG21	2.36	0.41
1:v:289:HIS:HD2	1:v:365:PRO:HA	1.85	0.41
1:y:357:SER:HB2	1:y:359:HIS:CD2	2.55	0.41
1:6:405:ARG:H	1:6:408:ASN:HD22	1.68	0.41
1:A:581:SER:O	1:G:485:ARG:HD3	2.21	0.41
1:C:366:PHE:HA	1:C:367:PRO:HD3	1.93	0.41
1:D:422:HIS:NE2	1:D:729:THR:HG21	2.36	0.41
1:H:485:ARG:HD3	1:Y:581:SER:O	2.21	0.41
1:I:422:HIS:NE2	1:I:729:THR:HG21	2.36	0.41
1:J:405:ARG:H	1:J:408:ASN:HD22	1.68	0.41
1:O:357:SER:HB2	1:O:359:HIS:CD2	2.56	0.41
1:P:289:HIS:HD2	1:P:365:PRO:HA	1.85	0.41
1:P:422:HIS:NE2	1:P:729:THR:HG21	2.36	0.41
1:T:289:HIS:HD2	1:T:365:PRO:HA	1.85	0.41
1:2:289:HIS:HD2	1:2:365:PRO:HA	1.85	0.41
1:2:581:SER:O	1:i:485:ARG:HD3	2.21	0.41
1:3:581:SER:O	1:f:485:ARG:HD3	2.21	0.41
1:5:366:PHE:HA	1:5:367:PRO:HD3	1.93	0.41
1:a:357:SER:HB2	1:a:359:HIS:CD2	2.55	0.41
1:c:422:HIS:NE2	1:c:729:THR:HG21	2.36	0.41
1:c:485:ARG:HD3	1:e:581:SER:O	2.21	0.41
1:d:655:PRO:HG3	1:f:370:VAL:HG11	2.02	0.41
1:h:357:SER:HB2	1:h:359:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:405:ARG:H	1:h:408:ASN:HD22	1.68	0.41
1:i:289:HIS:HD2	1:i:365:PRO:HA	1.85	0.41
1:j:405:ARG:H	1:j:408:ASN:HD22	1.68	0.41
1:j:655:PRO:HG3	1:z:370:VAL:HG11	2.02	0.41
1:l:405:ARG:H	1:l:408:ASN:HD22	1.68	0.41
1:l:422:HIS:NE2	1:l:729:THR:HG21	2.36	0.41
1:m:422:HIS:NE2	1:m:729:THR:HG21	2.36	0.41
1:n:357:SER:HB2	1:n:359:HIS:CD2	2.56	0.41
1:n:405:ARG:H	1:n:408:ASN:HD22	1.68	0.41
1:o:280:TRP:CD1	1:o:396:LEU:HD12	2.55	0.41
1:q:422:HIS:NE2	1:q:729:THR:HG21	2.36	0.41
1:s:405:ARG:H	1:s:408:ASN:HD22	1.68	0.41
1:t:422:HIS:NE2	1:t:729:THR:HG21	2.36	0.41
1:v:422:HIS:NE2	1:v:729:THR:HG21	2.36	0.41
1:z:405:ARG:H	1:z:408:ASN:HD22	1.68	0.41
1:z:422:HIS:NE2	1:z:729:THR:HG21	2.36	0.41
1:6:289:HIS:HD2	1:6:365:PRO:HA	1.85	0.41
1:6:357:SER:HB2	1:6:359:HIS:CD2	2.55	0.41
1:L:531:GLU:HB3	1:L:534:PHE:HD2	1.86	0.41
1:M:422:HIS:NE2	1:M:729:THR:HG21	2.36	0.41
1:O:485:ARG:HD3	1:h:581:SER:O	2.21	0.41
1:T:280:TRP:CD1	1:T:396:LEU:HD12	2.55	0.41
1:T:357:SER:HB2	1:T:359:HIS:CD2	2.55	0.41
1:T:485:ARG:HD3	1:f:581:SER:O	2.21	0.41
1:3:405:ARG:H	1:3:408:ASN:HD22	1.68	0.41
1:a:422:HIS:NE2	1:a:729:THR:HG21	2.36	0.41
1:f:357:SER:HB2	1:f:359:HIS:CD2	2.56	0.41
1:f:405:ARG:H	1:f:408:ASN:HD22	1.68	0.41
1:h:280:TRP:CD1	1:h:396:LEU:HD12	2.55	0.41
1:i:422:HIS:NE2	1:i:729:THR:HG21	2.36	0.41
1:k:485:ARG:HD3	1:m:581:SER:O	2.21	0.41
1:m:349:TYR:OH	1:m:643:PRO:O	2.33	0.41
1:n:581:SER:O	1:o:485:ARG:HD3	2.21	0.41
1:y:405:ARG:H	1:y:408:ASN:HD22	1.68	0.41
1:z:357:SER:HB2	1:z:359:HIS:CD2	2.56	0.41
1:6:280:TRP:CD1	1:6:396:LEU:HD12	2.55	0.41
1:A:655:PRO:HG3	1:B:370:VAL:HG11	2.01	0.41
1:B:289:HIS:HD2	1:B:365:PRO:HA	1.85	0.41
1:D:357:SER:HB2	1:D:359:HIS:CD2	2.55	0.41
1:D:485:ARG:HD3	1:P:581:SER:O	2.21	0.41
1:D:581:SER:O	1:N:485:ARG:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:485:ARG:HD3	1:F:581:SER:O	2.21	0.41
1:F:289:HIS:HD2	1:F:365:PRO:HA	1.85	0.41
1:F:357:SER:HB2	1:F:359:HIS:CD2	2.56	0.41
1:J:422:HIS:NE2	1:J:729:THR:HG21	2.36	0.41
1:M:485:ARG:HD3	1:I:581:SER:O	2.21	0.41
1:N:357:SER:HB2	1:N:359:HIS:CD2	2.55	0.41
1:N:531:GLU:HB3	1:N:534:PHE:HD2	1.86	0.41
1:O:422:HIS:NE2	1:O:729:THR:HG21	2.36	0.41
1:O:531:GLU:HB3	1:O:534:PHE:HD2	1.86	0.41
1:Q:405:ARG:H	1:Q:408:ASN:HD22	1.68	0.41
1:R:422:HIS:NE2	1:R:729:THR:HG21	2.36	0.41
1:V:422:HIS:NE2	1:V:729:THR:HG21	2.36	0.41
1:X:289:HIS:HD2	1:X:365:PRO:HA	1.85	0.41
1:Z:289:HIS:HD2	1:Z:365:PRO:HA	1.85	0.41
1:Z:357:SER:HB2	1:Z:359:HIS:CD2	2.56	0.41
1:Z:581:SER:O	1:x:485:ARG:HD3	2.21	0.41
1:0:422:HIS:NE2	1:0:729:THR:HG21	2.36	0.41
1:1:531:GLU:HB3	1:1:534:PHE:HD2	1.86	0.41
1:2:485:ARG:HD3	1:j:581:SER:O	2.21	0.41
1:3:531:GLU:HB3	1:3:534:PHE:HD2	1.86	0.41
1:4:531:GLU:HB3	1:4:534:PHE:HD2	1.86	0.41
1:b:531:GLU:HB3	1:b:534:PHE:HD2	1.86	0.41
1:d:422:HIS:NE2	1:d:729:THR:HG21	2.36	0.41
1:f:422:HIS:NE2	1:f:729:THR:HG21	2.36	0.41
1:g:357:SER:HB2	1:g:359:HIS:CD2	2.56	0.41
1:m:357:SER:HB2	1:m:359:HIS:CD2	2.56	0.41
1:m:366:PHE:HA	1:m:367:PRO:HD3	1.93	0.41
1:n:280:TRP:CD1	1:n:396:LEU:HD12	2.55	0.41
1:o:422:HIS:NE2	1:o:729:THR:HG21	2.36	0.41
1:o:531:GLU:HB3	1:o:534:PHE:HD2	1.86	0.41
1:q:581:SER:O	1:r:485:ARG:HD3	2.21	0.41
1:s:357:SER:HB2	1:s:359:HIS:CD2	2.55	0.41
1:s:422:HIS:NE2	1:s:729:THR:HG21	2.36	0.41
1:t:357:SER:HB2	1:t:359:HIS:CD2	2.55	0.41
1:t:485:ARG:HD3	1:v:581:SER:O	2.21	0.41
1:t:581:SER:O	1:u:485:ARG:HD3	2.21	0.41
1:u:357:SER:HB2	1:u:359:HIS:CD2	2.55	0.41
1:w:422:HIS:NE2	1:w:729:THR:HG21	2.36	0.41
1:y:531:GLU:HB3	1:y:534:PHE:HD2	1.86	0.41
1:y:581:SER:O	1:z:485:ARG:HD3	2.21	0.41
1:z:581:SER:O	1:6:485:ARG:HD3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:422:HIS:NE2	1:C:729:THR:HG21	2.36	0.41
1:E:422:HIS:NE2	1:E:729:THR:HG21	2.36	0.41
1:E:531:GLU:HB3	1:E:534:PHE:HD2	1.86	0.41
1:I:357:SER:HB2	1:I:359:HIS:CD2	2.55	0.41
1:J:357:SER:HB2	1:J:359:HIS:CD2	2.56	0.41
1:J:580:VAL:HG13	1:L:485:ARG:HB3	2.03	0.41
1:J:581:SER:O	1:L:485:ARG:HD3	2.21	0.41
1:Q:422:HIS:NE2	1:Q:729:THR:HG21	2.36	0.41
1:S:581:SER:O	1:U:485:ARG:HD3	2.21	0.41
1:V:357:SER:HB2	1:V:359:HIS:CD2	2.56	0.41
1:X:370:VAL:HG11	1:Y:655:PRO:HG3	2.01	0.41
1:5:289:HIS:HD2	1:5:365:PRO:HA	1.85	0.41
1:5:357:SER:HB2	1:5:359:HIS:CD2	2.55	0.41
1:5:422:HIS:NE2	1:5:729:THR:HG21	2.36	0.41
1:a:485:ARG:HD3	1:b:581:SER:O	2.21	0.41
1:d:581:SER:O	1:e:485:ARG:HD3	2.21	0.41
1:j:422:HIS:NE2	1:j:729:THR:HG21	2.36	0.41
1:l:357:SER:HB2	1:l:359:HIS:CD2	2.56	0.41
1:l:531:GLU:HB3	1:l:534:PHE:HD2	1.86	0.41
1:p:357:SER:HB2	1:p:359:HIS:CD2	2.56	0.41
1:q:357:SER:HB2	1:q:359:HIS:CD2	2.56	0.41
1:q:405:ARG:H	1:q:408:ASN:HD22	1.68	0.41
1:s:531:GLU:HB3	1:s:534:PHE:HD2	1.86	0.41
1:w:405:ARG:H	1:w:408:ASN:HD22	1.68	0.41
1:x:422:HIS:NE2	1:x:729:THR:HG21	2.36	0.41
1:x:531:GLU:HB3	1:x:534:PHE:HD2	1.86	0.41
1:B:580:VAL:HG13	1:J:485:ARG:HB3	2.03	0.40
1:C:357:SER:HB2	1:C:359:HIS:CD2	2.55	0.40
1:K:485:ARG:HD3	1:7:581:SER:O	2.21	0.40
1:R:531:GLU:HB3	1:R:534:PHE:HD2	1.86	0.40
1:R:581:SER:O	1:S:485:ARG:HD3	2.21	0.40
1:U:495:ASP:OD2	1:U:533:LYS:NZ	2.34	0.40
1:V:581:SER:O	1:4:485:ARG:HD3	2.21	0.40
1:W:357:SER:HB2	1:W:359:HIS:CD2	2.55	0.40
1:Z:531:GLU:HB3	1:Z:534:PHE:HD2	1.86	0.40
1:0:531:GLU:HB3	1:0:534:PHE:HD2	1.86	0.40
1:c:580:VAL:HG13	1:d:485:ARG:HB3	2.03	0.40
1:m:405:ARG:H	1:m:408:ASN:HD22	1.68	0.40
1:n:485:ARG:HB3	1:p:580:VAL:HG13	2.03	0.40
1:u:531:GLU:HB3	1:u:534:PHE:HD2	1.86	0.40
1:w:366:PHE:HA	1:w:367:PRO:HD3	1.93	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:405:ARG:H	1:7:408:ASN:HD22	1.68	0.40
1:C:289:HIS:HD2	1:C:365:PRO:HA	1.85	0.40
1:C:581:SER:O	1:1:485:ARG:HD3	2.21	0.40
1:D:658:PRO:HB3	1:D:667:PHE:CE1	2.57	0.40
1:F:531:GLU:HB3	1:F:534:PHE:HD2	1.86	0.40
1:H:422:HIS:NE2	1:H:729:THR:HG21	2.36	0.40
1:I:289:HIS:HD2	1:I:365:PRO:HA	1.85	0.40
1:K:357:SER:HB2	1:K:359:HIS:CD2	2.55	0.40
1:L:422:HIS:NE2	1:L:729:THR:HG21	2.36	0.40
1:N:581:SER:O	1:P:485:ARG:HD3	2.21	0.40
1:R:485:ARG:HD3	1:U:581:SER:O	2.21	0.40
1:V:485:ARG:HD3	1:X:581:SER:O	2.21	0.40
1:V:580:VAL:HG13	1:4:485:ARG:HB3	2.03	0.40
1:Z:422:HIS:NE2	1:Z:729:THR:HG21	2.36	0.40
1:0:581:SER:O	1:7:485:ARG:HD3	2.21	0.40
1:1:658:PRO:HB3	1:1:667:PHE:CE1	2.57	0.40
1:5:581:SER:O	1:b:485:ARG:HD3	2.21	0.40
1:b:658:PRO:HB3	1:b:667:PHE:CE1	2.57	0.40
1:c:531:GLU:HB3	1:c:534:PHE:HD2	1.86	0.40
1:d:357:SER:HB2	1:d:359:HIS:CD2	2.56	0.40
1:g:422:HIS:NE2	1:g:729:THR:HG21	2.36	0.40
1:i:580:VAL:HG13	1:j:485:ARG:HB3	2.03	0.40
1:k:581:SER:O	1:l:485:ARG:HD3	2.21	0.40
1:q:366:PHE:HA	1:q:367:PRO:HD3	1.93	0.40
1:r:581:SER:O	1:s:485:ARG:HD3	2.21	0.40
1:u:405:ARG:H	1:u:408:ASN:HD22	1.68	0.40
1:B:581:SER:O	1:J:485:ARG:HD3	2.21	0.40
1:C:485:ARG:HD3	1:M:581:SER:O	2.21	0.40
1:F:422:HIS:NE2	1:F:729:THR:HG21	2.36	0.40
1:H:357:SER:HB2	1:H:359:HIS:CD2	2.55	0.40
1:N:405:ARG:H	1:N:408:ASN:HD22	1.68	0.40
1:S:357:SER:HB2	1:S:359:HIS:CD2	2.55	0.40
1:S:405:ARG:H	1:S:408:ASN:HD22	1.68	0.40
1:T:422:HIS:NE2	1:T:729:THR:HG21	2.36	0.40
1:U:357:SER:HB2	1:U:359:HIS:CD2	2.55	0.40
1:W:289:HIS:HD2	1:W:365:PRO:HA	1.85	0.40
1:Z:485:ARG:HB3	1:w:580:VAL:HG13	2.03	0.40
1:4:422:HIS:NE2	1:4:729:THR:HG21	2.36	0.40
1:f:658:PRO:HB3	1:f:667:PHE:CE1	2.57	0.40
1:i:531:GLU:HB3	1:i:534:PHE:HD2	1.86	0.40
1:j:357:SER:HB2	1:j:359:HIS:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:531:GLU:HB3	1:m:534:PHE:HD2	1.86	0.40
1:n:531:GLU:HB3	1:n:534:PHE:HD2	1.86	0.40
1:p:422:HIS:NE2	1:p:729:THR:HG21	2.36	0.40
1:q:531:GLU:HB3	1:q:534:PHE:HD2	1.86	0.40
1:t:658:PRO:HB3	1:t:667:PHE:CE1	2.57	0.40
1:y:658:PRO:HB3	1:y:667:PHE:CE1	2.57	0.40
1:z:658:PRO:HB3	1:z:667:PHE:CE1	2.57	0.40
1:E:396:LEU:HD13	1:E:648:LEU:HD13	2.04	0.40
1:F:485:ARG:HB3	1:Q:580:VAL:HG13	2.03	0.40
1:G:422:HIS:NE2	1:G:729:THR:HG21	2.36	0.40
1:H:366:PHE:HA	1:H:367:PRO:HD3	1.93	0.40
1:K:581:SER:O	1:O:485:ARG:HD3	2.21	0.40
1:M:405:ARG:H	1:M:408:ASN:HD22	1.68	0.40
1:N:422:HIS:NE2	1:N:729:THR:HG21	2.36	0.40
1:P:658:PRO:HB3	1:P:667:PHE:CE1	2.57	0.40
1:T:658:PRO:HB3	1:T:667:PHE:CE1	2.57	0.40
1:V:658:PRO:HB3	1:V:667:PHE:CE1	2.57	0.40
1:i:370:VAL:HG11	1:i:655:PRO:HG3	2.02	0.40
1:2:396:LEU:HD13	1:2:648:LEU:HD13	2.04	0.40
1:2:485:ARG:HB3	1:j:580:VAL:HG13	2.03	0.40
1:3:658:PRO:HB3	1:3:667:PHE:CE1	2.57	0.40
1:d:580:VAL:HG13	1:e:485:ARG:HB3	2.03	0.40
1:e:396:LEU:HD13	1:e:648:LEU:HD13	2.04	0.40
1:f:396:LEU:HD13	1:f:648:LEU:HD13	2.04	0.40
1:h:531:GLU:HB3	1:h:534:PHE:HD2	1.86	0.40
1:n:580:VAL:HG13	1:o:485:ARG:HB3	2.03	0.40
1:u:422:HIS:NE2	1:u:729:THR:HG21	2.36	0.40
1:u:581:SER:O	1:v:485:ARG:HD3	2.21	0.40
1:v:531:GLU:HB3	1:v:534:PHE:HD2	1.86	0.40
1:w:485:ARG:HB3	1:x:580:VAL:HG13	2.03	0.40
1:x:396:LEU:HD13	1:x:648:LEU:HD13	2.04	0.40
1:6:658:PRO:HB3	1:6:667:PHE:CE1	2.57	0.40
1:7:357:SER:HB2	1:7:359:HIS:CD2	2.55	0.40
1:A:396:LEU:HD13	1:A:648:LEU:HD13	2.04	0.40
1:B:396:LEU:HD13	1:B:648:LEU:HD13	2.04	0.40
1:F:658:PRO:HB3	1:F:667:PHE:CE1	2.57	0.40
1:G:357:SER:HB2	1:G:359:HIS:CD2	2.55	0.40
1:H:531:GLU:HB3	1:H:534:PHE:HD2	1.86	0.40
1:I:658:PRO:HB3	1:I:667:PHE:CE1	2.57	0.40
1:K:405:ARG:H	1:K:408:ASN:HD22	1.68	0.40
1:Q:366:PHE:HA	1:Q:367:PRO:HD3	1.93	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:366:PHE:HA	1:S:367:PRO:HD3	1.93	0.40
1:U:396:LEU:HD13	1:U:648:LEU:HD13	2.04	0.40
1:V:485:ARG:HB3	1:X:580:VAL:HG13	2.04	0.40
1:W:531:GLU:HB3	1:W:534:PHE:HD2	1.86	0.40
1:X:396:LEU:HD13	1:X:648:LEU:HD13	2.04	0.40
1:Z:658:PRO:HB3	1:Z:667:PHE:CE1	2.57	0.40
1:5:485:ARG:HD3	1:a:581:SER:O	2.21	0.40
1:5:531:GLU:HB3	1:5:534:PHE:HD2	1.86	0.40
1:b:370:VAL:HG11	1:c:655:PRO:HG3	2.02	0.40
1:d:531:GLU:HB3	1:d:534:PHE:HD2	1.86	0.40
1:g:580:VAL:HG13	1:h:485:ARG:HB3	2.04	0.40
1:k:379:LEU:HD13	1:m:433:ARG:HD2	2.04	0.40
1:l:454:GLY:O	1:l:455:THR:OG1	2.26	0.40
1:u:658:PRO:HB3	1:u:667:PHE:CE1	2.57	0.40
1:v:658:PRO:HB3	1:v:667:PHE:CE1	2.57	0.40
1:z:396:LEU:HD13	1:z:648:LEU:HD13	2.04	0.40
1:6:422:HIS:NE2	1:6:729:THR:HG21	2.36	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	0	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	1	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	2	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	3	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	4	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	5	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	6	516/736 (70%)	506 (98%)	10 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	7	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	A	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	B	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	C	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	D	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	E	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	F	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	G	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	H	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	I	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	J	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	K	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	L	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	M	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	N	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	O	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	P	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	Q	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	R	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	S	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	T	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	U	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	V	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	W	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	X	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	Y	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	Z	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	a	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	b	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	c	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	d	516/736 (70%)	507 (98%)	9 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	e	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	f	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	g	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	h	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	i	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	j	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	k	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	l	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	m	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	n	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	o	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	p	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	q	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	r	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	s	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	t	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	u	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	v	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	w	516/736 (70%)	507 (98%)	9 (2%)	0	100	100
1	x	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	y	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
1	z	516/736 (70%)	506 (98%)	10 (2%)	0	100	100
All	All	30960/44160 (70%)	30384 (98%)	576 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	457/628 (73%)	457 (100%)	0	100	100
1	1	457/628 (73%)	457 (100%)	0	100	100
1	2	457/628 (73%)	457 (100%)	0	100	100
1	3	457/628 (73%)	457 (100%)	0	100	100
1	4	457/628 (73%)	457 (100%)	0	100	100
1	5	457/628 (73%)	457 (100%)	0	100	100
1	6	457/628 (73%)	457 (100%)	0	100	100
1	7	457/628 (73%)	457 (100%)	0	100	100
1	A	457/628 (73%)	457 (100%)	0	100	100
1	B	457/628 (73%)	457 (100%)	0	100	100
1	C	457/628 (73%)	457 (100%)	0	100	100
1	D	457/628 (73%)	457 (100%)	0	100	100
1	E	457/628 (73%)	457 (100%)	0	100	100
1	F	457/628 (73%)	457 (100%)	0	100	100
1	G	457/628 (73%)	457 (100%)	0	100	100
1	H	457/628 (73%)	457 (100%)	0	100	100
1	I	457/628 (73%)	457 (100%)	0	100	100
1	J	457/628 (73%)	457 (100%)	0	100	100
1	K	457/628 (73%)	457 (100%)	0	100	100
1	L	457/628 (73%)	457 (100%)	0	100	100
1	M	457/628 (73%)	457 (100%)	0	100	100
1	N	457/628 (73%)	457 (100%)	0	100	100
1	O	457/628 (73%)	457 (100%)	0	100	100
1	P	457/628 (73%)	457 (100%)	0	100	100
1	Q	457/628 (73%)	457 (100%)	0	100	100
1	R	457/628 (73%)	457 (100%)	0	100	100
1	S	457/628 (73%)	457 (100%)	0	100	100
1	T	457/628 (73%)	457 (100%)	0	100	100
1	U	457/628 (73%)	457 (100%)	0	100	100
1	V	457/628 (73%)	457 (100%)	0	100	100
1	W	457/628 (73%)	457 (100%)	0	100	100
1	X	457/628 (73%)	457 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Y	457/628 (73%)	457 (100%)	0	100	100
1	Z	457/628 (73%)	457 (100%)	0	100	100
1	a	457/628 (73%)	457 (100%)	0	100	100
1	b	457/628 (73%)	457 (100%)	0	100	100
1	c	457/628 (73%)	457 (100%)	0	100	100
1	d	457/628 (73%)	457 (100%)	0	100	100
1	e	457/628 (73%)	457 (100%)	0	100	100
1	f	457/628 (73%)	457 (100%)	0	100	100
1	g	457/628 (73%)	457 (100%)	0	100	100
1	h	457/628 (73%)	457 (100%)	0	100	100
1	i	457/628 (73%)	457 (100%)	0	100	100
1	j	457/628 (73%)	457 (100%)	0	100	100
1	k	457/628 (73%)	457 (100%)	0	100	100
1	l	457/628 (73%)	457 (100%)	0	100	100
1	m	457/628 (73%)	457 (100%)	0	100	100
1	n	457/628 (73%)	457 (100%)	0	100	100
1	o	457/628 (73%)	457 (100%)	0	100	100
1	p	457/628 (73%)	457 (100%)	0	100	100
1	q	457/628 (73%)	457 (100%)	0	100	100
1	r	457/628 (73%)	457 (100%)	0	100	100
1	s	457/628 (73%)	457 (100%)	0	100	100
1	t	457/628 (73%)	457 (100%)	0	100	100
1	u	457/628 (73%)	457 (100%)	0	100	100
1	v	457/628 (73%)	457 (100%)	0	100	100
1	w	457/628 (73%)	457 (100%)	0	100	100
1	x	457/628 (73%)	457 (100%)	0	100	100
1	y	457/628 (73%)	457 (100%)	0	100	100
1	z	457/628 (73%)	457 (100%)	0	100	100
All	All	27420/37680 (73%)	27420 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1028)

such sidechains are listed below:

Mol	Chain	Res	Type
1	A	229	HIS
1	A	289	HIS
1	A	298	GLN
1	A	335	ASN
1	A	342	GLN
1	A	383	ASN
1	A	458	GLN
1	A	462	GLN
1	A	465	GLN
1	A	519	ASN
1	A	546	GLN
1	A	552	ASN
1	A	599	GLN
1	A	608	GLN
1	A	628	HIS
1	A	630	HIS
1	A	646	GLN
1	A	718	ASN
1	B	229	HIS
1	B	289	HIS
1	B	335	ASN
1	B	342	GLN
1	B	383	ASN
1	B	458	GLN
1	B	462	GLN
1	B	465	GLN
1	B	519	ASN
1	B	546	GLN
1	B	552	ASN
1	B	599	GLN
1	B	608	GLN
1	B	628	HIS
1	B	630	HIS
1	B	646	GLN
1	B	718	ASN
1	C	254	ASN
1	C	289	HIS
1	C	298	GLN
1	C	335	ASN
1	C	342	GLN
1	C	383	ASN
1	C	458	GLN

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Mol	Chain	Res	Type
1	C	462	GLN
1	C	465	GLN
1	C	519	ASN
1	C	546	GLN
1	C	552	ASN
1	C	599	GLN
1	C	608	GLN
1	C	628	HIS
1	C	630	HIS
1	C	646	GLN
1	D	229	HIS
1	D	289	HIS
1	D	298	GLN
1	D	335	ASN
1	D	342	GLN
1	D	383	ASN
1	D	458	GLN
1	D	462	GLN
1	D	519	ASN
1	D	546	GLN
1	D	552	ASN
1	D	599	GLN
1	D	608	GLN
1	D	628	HIS
1	D	630	HIS
1	D	646	GLN
1	D	718	ASN
1	E	289	HIS
1	E	298	GLN
1	E	335	ASN
1	E	342	GLN
1	E	383	ASN
1	E	458	GLN
1	E	462	GLN
1	E	465	GLN
1	E	519	ASN
1	E	552	ASN
1	E	599	GLN
1	E	608	GLN
1	E	628	HIS
1	E	630	HIS
1	E	646	GLN

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Mol	Chain	Res	Type
1	F	254	ASN
1	F	289	HIS
1	F	298	GLN
1	F	335	ASN
1	F	342	GLN
1	F	383	ASN
1	F	458	GLN
1	F	462	GLN
1	F	465	GLN
1	F	519	ASN
1	F	552	ASN
1	F	599	GLN
1	F	608	GLN
1	F	628	HIS
1	F	630	HIS
1	F	646	GLN
1	G	229	HIS
1	G	289	HIS
1	G	298	GLN
1	G	335	ASN
1	G	342	GLN
1	G	383	ASN
1	G	458	GLN
1	G	462	GLN
1	G	465	GLN
1	G	519	ASN
1	G	546	GLN
1	G	552	ASN
1	G	599	GLN
1	G	608	GLN
1	G	628	HIS
1	G	630	HIS
1	G	646	GLN
1	H	229	HIS
1	H	289	HIS
1	H	298	GLN
1	H	335	ASN
1	H	342	GLN
1	H	383	ASN
1	H	458	GLN
1	H	462	GLN
1	H	465	GLN

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Mol	Chain	Res	Type
1	H	519	ASN
1	H	546	GLN
1	H	552	ASN
1	H	599	GLN
1	H	608	GLN
1	H	628	HIS
1	H	630	HIS
1	H	646	GLN
1	H	718	ASN
1	I	229	HIS
1	I	259	GLN
1	I	289	HIS
1	I	298	GLN
1	I	335	ASN
1	I	342	GLN
1	I	383	ASN
1	I	458	GLN
1	I	462	GLN
1	I	465	GLN
1	I	519	ASN
1	I	546	GLN
1	I	552	ASN
1	I	599	GLN
1	I	608	GLN
1	I	628	HIS
1	I	630	HIS
1	I	646	GLN
1	I	718	ASN
1	J	254	ASN
1	J	289	HIS
1	J	335	ASN
1	J	342	GLN
1	J	383	ASN
1	J	458	GLN
1	J	462	GLN
1	J	465	GLN
1	J	519	ASN
1	J	546	GLN
1	J	552	ASN
1	J	599	GLN
1	J	608	GLN
1	J	628	HIS

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Mol	Chain	Res	Type
1	J	630	HIS
1	J	646	GLN
1	J	718	ASN
1	K	229	HIS
1	K	289	HIS
1	K	335	ASN
1	K	342	GLN
1	K	383	ASN
1	K	458	GLN
1	K	462	GLN
1	K	465	GLN
1	K	519	ASN
1	K	546	GLN
1	K	552	ASN
1	K	599	GLN
1	K	608	GLN
1	K	628	HIS
1	K	630	HIS
1	K	646	GLN
1	L	289	HIS
1	L	298	GLN
1	L	313	ASN
1	L	335	ASN
1	L	342	GLN
1	L	383	ASN
1	L	458	GLN
1	L	462	GLN
1	L	465	GLN
1	L	519	ASN
1	L	546	GLN
1	L	552	ASN
1	L	599	GLN
1	L	608	GLN
1	L	628	HIS
1	L	630	HIS
1	L	646	GLN
1	M	259	GLN
1	M	289	HIS
1	M	298	GLN
1	M	335	ASN
1	M	342	GLN
1	M	383	ASN

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Mol	Chain	Res	Type
1	M	458	GLN
1	M	462	GLN
1	M	465	GLN
1	M	519	ASN
1	M	552	ASN
1	M	599	GLN
1	M	608	GLN
1	M	628	HIS
1	M	630	HIS
1	M	646	GLN
1	M	718	ASN
1	N	229	HIS
1	N	289	HIS
1	N	298	GLN
1	N	313	ASN
1	N	335	ASN
1	N	342	GLN
1	N	360	GLN
1	N	383	ASN
1	N	458	GLN
1	N	462	GLN
1	N	465	GLN
1	N	519	ASN
1	N	546	GLN
1	N	552	ASN
1	N	599	GLN
1	N	608	GLN
1	N	628	HIS
1	N	630	HIS
1	N	646	GLN
1	N	718	ASN
1	O	289	HIS
1	O	298	GLN
1	O	335	ASN
1	O	342	GLN
1	O	383	ASN
1	O	458	GLN
1	O	462	GLN
1	O	465	GLN
1	O	519	ASN
1	O	546	GLN
1	O	552	ASN

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Mol	Chain	Res	Type
1	O	599	GLN
1	O	608	GLN
1	O	628	HIS
1	O	630	HIS
1	O	646	GLN
1	O	718	ASN
1	P	229	HIS
1	P	259	GLN
1	P	289	HIS
1	P	298	GLN
1	P	313	ASN
1	P	335	ASN
1	P	342	GLN
1	P	383	ASN
1	P	458	GLN
1	P	462	GLN
1	P	465	GLN
1	P	519	ASN
1	P	546	GLN
1	P	552	ASN
1	P	599	GLN
1	P	608	GLN
1	P	628	HIS
1	P	630	HIS
1	P	646	GLN
1	P	718	ASN
1	Q	289	HIS
1	Q	335	ASN
1	Q	342	GLN
1	Q	383	ASN
1	Q	458	GLN
1	Q	462	GLN
1	Q	465	GLN
1	Q	519	ASN
1	Q	546	GLN
1	Q	552	ASN
1	Q	599	GLN
1	Q	608	GLN
1	Q	628	HIS
1	Q	630	HIS
1	Q	646	GLN
1	Q	718	ASN

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Mol	Chain	Res	Type
1	R	289	HIS
1	R	298	GLN
1	R	335	ASN
1	R	342	GLN
1	R	383	ASN
1	R	458	GLN
1	R	462	GLN
1	R	465	GLN
1	R	519	ASN
1	R	546	GLN
1	R	552	ASN
1	R	599	GLN
1	R	608	GLN
1	R	628	HIS
1	R	630	HIS
1	R	646	GLN
1	S	229	HIS
1	S	259	GLN
1	S	289	HIS
1	S	298	GLN
1	S	335	ASN
1	S	342	GLN
1	S	383	ASN
1	S	458	GLN
1	S	462	GLN
1	S	465	GLN
1	S	519	ASN
1	S	546	GLN
1	S	552	ASN
1	S	599	GLN
1	S	608	GLN
1	S	628	HIS
1	S	630	HIS
1	S	646	GLN
1	T	254	ASN
1	T	289	HIS
1	T	298	GLN
1	T	335	ASN
1	T	342	GLN
1	T	383	ASN
1	T	458	GLN
1	T	462	GLN

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Mol	Chain	Res	Type
1	T	465	GLN
1	T	519	ASN
1	T	546	GLN
1	T	552	ASN
1	T	599	GLN
1	T	608	GLN
1	T	628	HIS
1	T	630	HIS
1	T	646	GLN
1	T	718	ASN
1	U	229	HIS
1	U	289	HIS
1	U	298	GLN
1	U	335	ASN
1	U	342	GLN
1	U	383	ASN
1	U	458	GLN
1	U	462	GLN
1	U	465	GLN
1	U	519	ASN
1	U	546	GLN
1	U	552	ASN
1	U	599	GLN
1	U	608	GLN
1	U	628	HIS
1	U	630	HIS
1	U	646	GLN
1	V	289	HIS
1	V	335	ASN
1	V	342	GLN
1	V	383	ASN
1	V	458	GLN
1	V	462	GLN
1	V	465	GLN
1	V	519	ASN
1	V	546	GLN
1	V	552	ASN
1	V	599	GLN
1	V	608	GLN
1	V	628	HIS
1	V	630	HIS
1	V	646	GLN

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Mol	Chain	Res	Type
1	V	718	ASN
1	W	229	HIS
1	W	259	GLN
1	W	289	HIS
1	W	298	GLN
1	W	335	ASN
1	W	342	GLN
1	W	383	ASN
1	W	458	GLN
1	W	462	GLN
1	W	465	GLN
1	W	519	ASN
1	W	546	GLN
1	W	552	ASN
1	W	599	GLN
1	W	608	GLN
1	W	628	HIS
1	W	630	HIS
1	W	646	GLN
1	W	718	ASN
1	X	229	HIS
1	X	254	ASN
1	X	289	HIS
1	X	335	ASN
1	X	342	GLN
1	X	383	ASN
1	X	458	GLN
1	X	462	GLN
1	X	465	GLN
1	X	519	ASN
1	X	546	GLN
1	X	552	ASN
1	X	599	GLN
1	X	608	GLN
1	X	628	HIS
1	X	630	HIS
1	X	646	GLN
1	X	718	ASN
1	Y	229	HIS
1	Y	289	HIS
1	Y	298	GLN
1	Y	335	ASN

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Mol	Chain	Res	Type
1	Y	342	GLN
1	Y	383	ASN
1	Y	458	GLN
1	Y	462	GLN
1	Y	465	GLN
1	Y	519	ASN
1	Y	546	GLN
1	Y	552	ASN
1	Y	599	GLN
1	Y	608	GLN
1	Y	628	HIS
1	Y	630	HIS
1	Y	646	GLN
1	Z	254	ASN
1	Z	289	HIS
1	Z	298	GLN
1	Z	335	ASN
1	Z	342	GLN
1	Z	383	ASN
1	Z	458	GLN
1	Z	462	GLN
1	Z	465	GLN
1	Z	519	ASN
1	Z	552	ASN
1	Z	599	GLN
1	Z	608	GLN
1	Z	628	HIS
1	Z	630	HIS
1	Z	646	GLN
1	0	289	HIS
1	0	335	ASN
1	0	342	GLN
1	0	383	ASN
1	0	458	GLN
1	0	462	GLN
1	0	465	GLN
1	0	519	ASN
1	0	546	GLN
1	0	552	ASN
1	0	599	GLN
1	0	608	GLN
1	0	628	HIS

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Mol	Chain	Res	Type
1	0	630	HIS
1	0	646	GLN
1	1	289	HIS
1	1	335	ASN
1	1	342	GLN
1	1	383	ASN
1	1	458	GLN
1	1	462	GLN
1	1	465	GLN
1	1	519	ASN
1	1	546	GLN
1	1	552	ASN
1	1	599	GLN
1	1	608	GLN
1	1	628	HIS
1	1	630	HIS
1	1	646	GLN
1	2	289	HIS
1	2	335	ASN
1	2	342	GLN
1	2	383	ASN
1	2	422	HIS
1	2	458	GLN
1	2	462	GLN
1	2	465	GLN
1	2	519	ASN
1	2	546	GLN
1	2	552	ASN
1	2	599	GLN
1	2	608	GLN
1	2	628	HIS
1	2	630	HIS
1	2	646	GLN
1	3	289	HIS
1	3	335	ASN
1	3	342	GLN
1	3	383	ASN
1	3	458	GLN
1	3	462	GLN
1	3	465	GLN
1	3	519	ASN
1	3	546	GLN

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Mol	Chain	Res	Type
1	3	552	ASN
1	3	599	GLN
1	3	608	GLN
1	3	628	HIS
1	3	630	HIS
1	3	646	GLN
1	4	289	HIS
1	4	335	ASN
1	4	342	GLN
1	4	383	ASN
1	4	458	GLN
1	4	462	GLN
1	4	465	GLN
1	4	519	ASN
1	4	546	GLN
1	4	552	ASN
1	4	599	GLN
1	4	608	GLN
1	4	628	HIS
1	4	630	HIS
1	4	646	GLN
1	5	254	ASN
1	5	289	HIS
1	5	298	GLN
1	5	335	ASN
1	5	342	GLN
1	5	383	ASN
1	5	458	GLN
1	5	462	GLN
1	5	465	GLN
1	5	519	ASN
1	5	546	GLN
1	5	552	ASN
1	5	599	GLN
1	5	608	GLN
1	5	628	HIS
1	5	630	HIS
1	5	646	GLN
1	a	259	GLN
1	a	289	HIS
1	a	298	GLN
1	a	335	ASN

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Mol	Chain	Res	Type
1	a	342	GLN
1	a	383	ASN
1	a	458	GLN
1	a	462	GLN
1	a	465	GLN
1	a	519	ASN
1	a	552	ASN
1	a	599	GLN
1	a	608	GLN
1	a	628	HIS
1	a	630	HIS
1	a	646	GLN
1	a	718	ASN
1	b	289	HIS
1	b	298	GLN
1	b	335	ASN
1	b	342	GLN
1	b	383	ASN
1	b	458	GLN
1	b	462	GLN
1	b	465	GLN
1	b	519	ASN
1	b	546	GLN
1	b	552	ASN
1	b	599	GLN
1	b	608	GLN
1	b	628	HIS
1	b	630	HIS
1	b	646	GLN
1	c	259	GLN
1	c	289	HIS
1	c	298	GLN
1	c	335	ASN
1	c	342	GLN
1	c	383	ASN
1	c	458	GLN
1	c	462	GLN
1	c	465	GLN
1	c	519	ASN
1	c	546	GLN
1	c	552	ASN
1	c	599	GLN

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Mol	Chain	Res	Type
1	c	608	GLN
1	c	628	HIS
1	c	630	HIS
1	c	646	GLN
1	d	229	HIS
1	d	289	HIS
1	d	298	GLN
1	d	342	GLN
1	d	383	ASN
1	d	458	GLN
1	d	462	GLN
1	d	465	GLN
1	d	519	ASN
1	d	546	GLN
1	d	552	ASN
1	d	599	GLN
1	d	608	GLN
1	d	628	HIS
1	d	630	HIS
1	d	646	GLN
1	e	289	HIS
1	e	335	ASN
1	e	342	GLN
1	e	383	ASN
1	e	422	HIS
1	e	458	GLN
1	e	462	GLN
1	e	465	GLN
1	e	519	ASN
1	e	546	GLN
1	e	552	ASN
1	e	599	GLN
1	e	608	GLN
1	e	628	HIS
1	e	630	HIS
1	e	646	GLN
1	f	229	HIS
1	f	254	ASN
1	f	289	HIS
1	f	298	GLN
1	f	313	ASN
1	f	335	ASN

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Mol	Chain	Res	Type
1	f	342	GLN
1	f	383	ASN
1	f	458	GLN
1	f	462	GLN
1	f	465	GLN
1	f	519	ASN
1	f	546	GLN
1	f	552	ASN
1	f	599	GLN
1	f	608	GLN
1	f	628	HIS
1	f	630	HIS
1	f	646	GLN
1	f	718	ASN
1	g	254	ASN
1	g	289	HIS
1	g	298	GLN
1	g	313	ASN
1	g	335	ASN
1	g	342	GLN
1	g	383	ASN
1	g	458	GLN
1	g	462	GLN
1	g	465	GLN
1	g	519	ASN
1	g	546	GLN
1	g	552	ASN
1	g	599	GLN
1	g	608	GLN
1	g	628	HIS
1	g	630	HIS
1	g	646	GLN
1	h	254	ASN
1	h	289	HIS
1	h	335	ASN
1	h	342	GLN
1	h	383	ASN
1	h	458	GLN
1	h	462	GLN
1	h	465	GLN
1	h	519	ASN
1	h	552	ASN

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Mol	Chain	Res	Type
1	h	599	GLN
1	h	608	GLN
1	h	628	HIS
1	h	630	HIS
1	h	646	GLN
1	i	259	GLN
1	i	289	HIS
1	i	298	GLN
1	i	335	ASN
1	i	342	GLN
1	i	383	ASN
1	i	458	GLN
1	i	462	GLN
1	i	465	GLN
1	i	519	ASN
1	i	546	GLN
1	i	552	ASN
1	i	599	GLN
1	i	608	GLN
1	i	628	HIS
1	i	630	HIS
1	i	646	GLN
1	j	229	HIS
1	j	289	HIS
1	j	298	GLN
1	j	335	ASN
1	j	342	GLN
1	j	383	ASN
1	j	458	GLN
1	j	462	GLN
1	j	465	GLN
1	j	519	ASN
1	j	546	GLN
1	j	552	ASN
1	j	599	GLN
1	j	608	GLN
1	j	628	HIS
1	j	630	HIS
1	j	646	GLN
1	k	289	HIS
1	k	298	GLN
1	k	335	ASN

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Mol	Chain	Res	Type
1	k	342	GLN
1	k	383	ASN
1	k	458	GLN
1	k	462	GLN
1	k	465	GLN
1	k	519	ASN
1	k	546	GLN
1	k	552	ASN
1	k	599	GLN
1	k	608	GLN
1	k	628	HIS
1	k	630	HIS
1	k	646	GLN
1	k	718	ASN
1	l	254	ASN
1	l	289	HIS
1	l	298	GLN
1	l	335	ASN
1	l	342	GLN
1	l	383	ASN
1	l	458	GLN
1	l	462	GLN
1	l	465	GLN
1	l	519	ASN
1	l	546	GLN
1	l	552	ASN
1	l	599	GLN
1	l	608	GLN
1	l	628	HIS
1	l	630	HIS
1	l	646	GLN
1	m	254	ASN
1	m	259	GLN
1	m	289	HIS
1	m	298	GLN
1	m	335	ASN
1	m	342	GLN
1	m	383	ASN
1	m	458	GLN
1	m	462	GLN
1	m	465	GLN
1	m	519	ASN

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Mol	Chain	Res	Type
1	m	546	GLN
1	m	552	ASN
1	m	599	GLN
1	m	608	GLN
1	m	628	HIS
1	m	630	HIS
1	m	646	GLN
1	m	718	ASN
1	n	289	HIS
1	n	335	ASN
1	n	342	GLN
1	n	383	ASN
1	n	458	GLN
1	n	462	GLN
1	n	465	GLN
1	n	519	ASN
1	n	546	GLN
1	n	552	ASN
1	n	599	GLN
1	n	608	GLN
1	n	628	HIS
1	n	630	HIS
1	n	646	GLN
1	o	289	HIS
1	o	298	GLN
1	o	335	ASN
1	o	342	GLN
1	o	383	ASN
1	o	458	GLN
1	o	462	GLN
1	o	465	GLN
1	o	519	ASN
1	o	546	GLN
1	o	552	ASN
1	o	599	GLN
1	o	608	GLN
1	o	628	HIS
1	o	630	HIS
1	o	646	GLN
1	o	718	ASN
1	p	254	ASN
1	p	289	HIS

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Mol	Chain	Res	Type
1	p	298	GLN
1	p	313	ASN
1	p	335	ASN
1	p	342	GLN
1	p	383	ASN
1	p	458	GLN
1	p	462	GLN
1	p	465	GLN
1	p	519	ASN
1	p	546	GLN
1	p	552	ASN
1	p	599	GLN
1	p	608	GLN
1	p	628	HIS
1	p	630	HIS
1	p	646	GLN
1	q	254	ASN
1	q	259	GLN
1	q	289	HIS
1	q	298	GLN
1	q	335	ASN
1	q	342	GLN
1	q	383	ASN
1	q	458	GLN
1	q	462	GLN
1	q	465	GLN
1	q	519	ASN
1	q	546	GLN
1	q	552	ASN
1	q	599	GLN
1	q	608	GLN
1	q	628	HIS
1	q	630	HIS
1	q	646	GLN
1	q	718	ASN
1	r	289	HIS
1	r	298	GLN
1	r	335	ASN
1	r	342	GLN
1	r	383	ASN
1	r	458	GLN
1	r	462	GLN

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Mol	Chain	Res	Type
1	r	465	GLN
1	r	519	ASN
1	r	546	GLN
1	r	552	ASN
1	r	599	GLN
1	r	608	GLN
1	r	628	HIS
1	r	630	HIS
1	r	646	GLN
1	s	254	ASN
1	s	259	GLN
1	s	289	HIS
1	s	298	GLN
1	s	335	ASN
1	s	342	GLN
1	s	383	ASN
1	s	458	GLN
1	s	462	GLN
1	s	465	GLN
1	s	519	ASN
1	s	546	GLN
1	s	552	ASN
1	s	599	GLN
1	s	608	GLN
1	s	628	HIS
1	s	630	HIS
1	s	646	GLN
1	t	229	HIS
1	t	289	HIS
1	t	298	GLN
1	t	335	ASN
1	t	342	GLN
1	t	383	ASN
1	t	458	GLN
1	t	462	GLN
1	t	519	ASN
1	t	546	GLN
1	t	552	ASN
1	t	599	GLN
1	t	608	GLN
1	t	628	HIS
1	t	630	HIS

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Mol	Chain	Res	Type
1	t	646	GLN
1	u	229	HIS
1	u	289	HIS
1	u	298	GLN
1	u	335	ASN
1	u	342	GLN
1	u	360	GLN
1	u	383	ASN
1	u	458	GLN
1	u	462	GLN
1	u	465	GLN
1	u	519	ASN
1	u	546	GLN
1	u	552	ASN
1	u	599	GLN
1	u	608	GLN
1	u	628	HIS
1	u	630	HIS
1	u	646	GLN
1	u	718	ASN
1	v	259	GLN
1	v	289	HIS
1	v	298	GLN
1	v	313	ASN
1	v	335	ASN
1	v	342	GLN
1	v	383	ASN
1	v	458	GLN
1	v	462	GLN
1	v	465	GLN
1	v	519	ASN
1	v	546	GLN
1	v	552	ASN
1	v	599	GLN
1	v	608	GLN
1	v	628	HIS
1	v	630	HIS
1	v	646	GLN
1	v	718	ASN
1	w	289	HIS
1	w	335	ASN
1	w	342	GLN

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Mol	Chain	Res	Type
1	w	383	ASN
1	w	458	GLN
1	w	462	GLN
1	w	465	GLN
1	w	519	ASN
1	w	546	GLN
1	w	552	ASN
1	w	599	GLN
1	w	608	GLN
1	w	628	HIS
1	w	630	HIS
1	w	646	GLN
1	w	718	ASN
1	x	254	ASN
1	x	259	GLN
1	x	289	HIS
1	x	298	GLN
1	x	313	ASN
1	x	335	ASN
1	x	342	GLN
1	x	383	ASN
1	x	458	GLN
1	x	462	GLN
1	x	465	GLN
1	x	519	ASN
1	x	546	GLN
1	x	552	ASN
1	x	599	GLN
1	x	608	GLN
1	x	628	HIS
1	x	630	HIS
1	x	646	GLN
1	y	289	HIS
1	y	298	GLN
1	y	335	ASN
1	y	342	GLN
1	y	383	ASN
1	y	458	GLN
1	y	462	GLN
1	y	465	GLN
1	y	519	ASN
1	y	546	GLN

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Mol	Chain	Res	Type
1	y	552	ASN
1	y	599	GLN
1	y	608	GLN
1	y	628	HIS
1	y	630	HIS
1	y	646	GLN
1	z	229	HIS
1	z	254	ASN
1	z	289	HIS
1	z	298	GLN
1	z	313	ASN
1	z	335	ASN
1	z	342	GLN
1	z	383	ASN
1	z	422	HIS
1	z	458	GLN
1	z	462	GLN
1	z	465	GLN
1	z	519	ASN
1	z	546	GLN
1	z	552	ASN
1	z	599	GLN
1	z	608	GLN
1	z	628	HIS
1	z	630	HIS
1	z	646	GLN
1	z	718	ASN
1	6	289	HIS
1	6	335	ASN
1	6	342	GLN
1	6	383	ASN
1	6	429	GLN
1	6	458	GLN
1	6	462	GLN
1	6	465	GLN
1	6	519	ASN
1	6	546	GLN
1	6	552	ASN
1	6	599	GLN
1	6	608	GLN
1	6	628	HIS
1	6	630	HIS

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Mol	Chain	Res	Type
1	6	646	GLN
1	6	718	ASN
1	7	229	HIS
1	7	259	GLN
1	7	289	HIS
1	7	298	GLN
1	7	335	ASN
1	7	342	GLN
1	7	383	ASN
1	7	458	GLN
1	7	462	GLN
1	7	465	GLN
1	7	519	ASN
1	7	546	GLN
1	7	552	ASN
1	7	599	GLN
1	7	608	GLN
1	7	628	HIS
1	7	630	HIS
1	7	646	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 [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

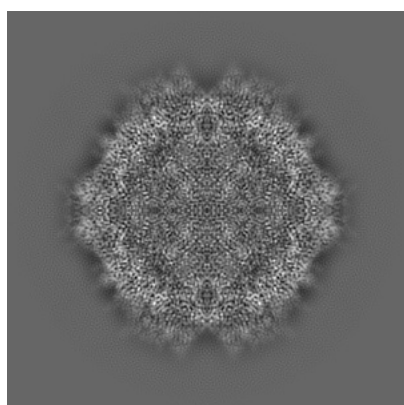
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-7452. These allow visual inspection of the internal detail of the map and identification of artifacts.

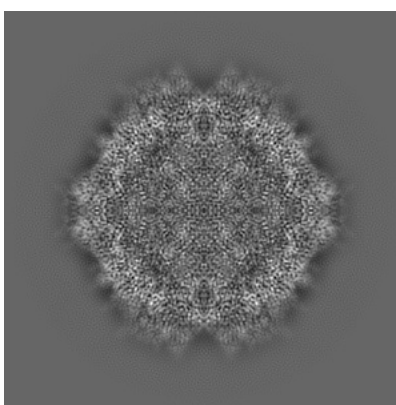
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

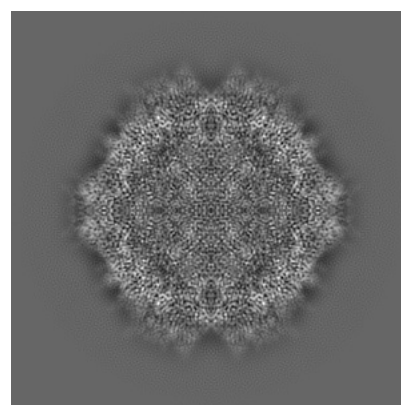
6.1.1 Primary map



X



Y

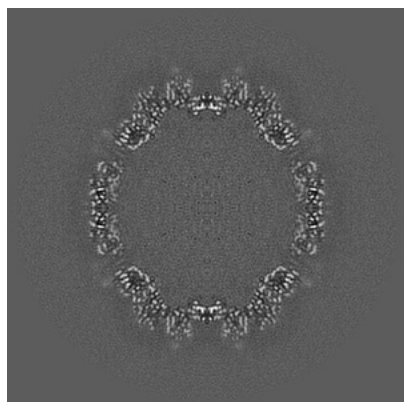


Z

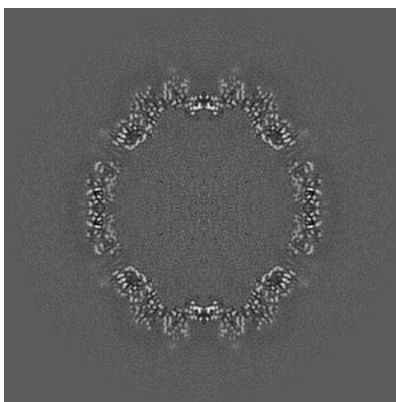
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

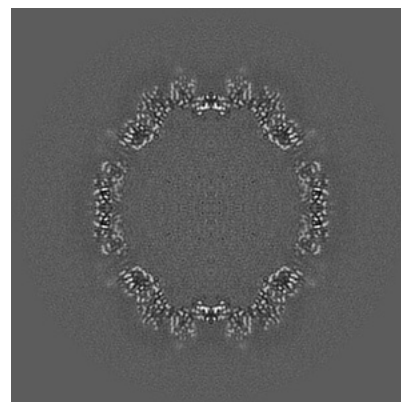
6.2.1 Primary map



X Index: 199



Y Index: 199

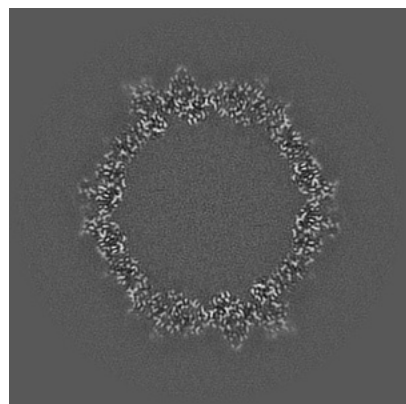


Z Index: 199

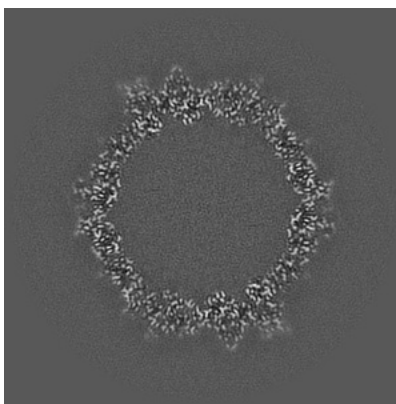
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

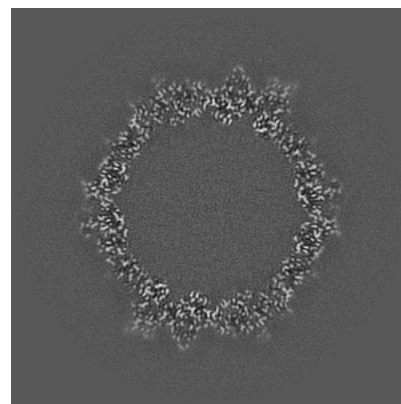
6.3.1 Primary map



X Index: 214



Y Index: 214

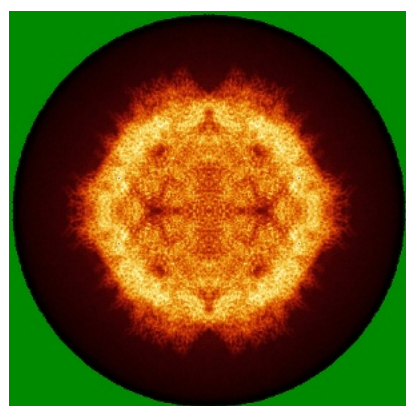


Z Index: 184

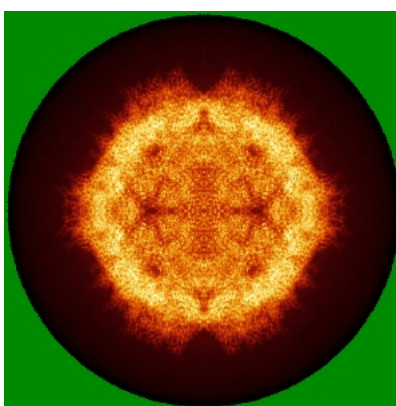
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

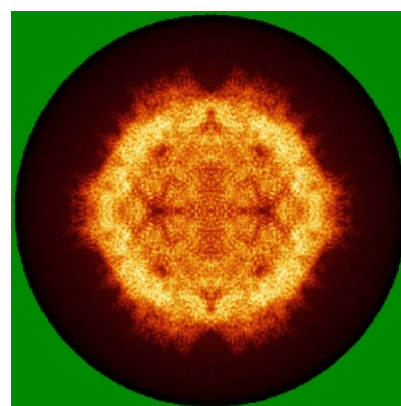
6.4.1 Primary map



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

This section was not generated.

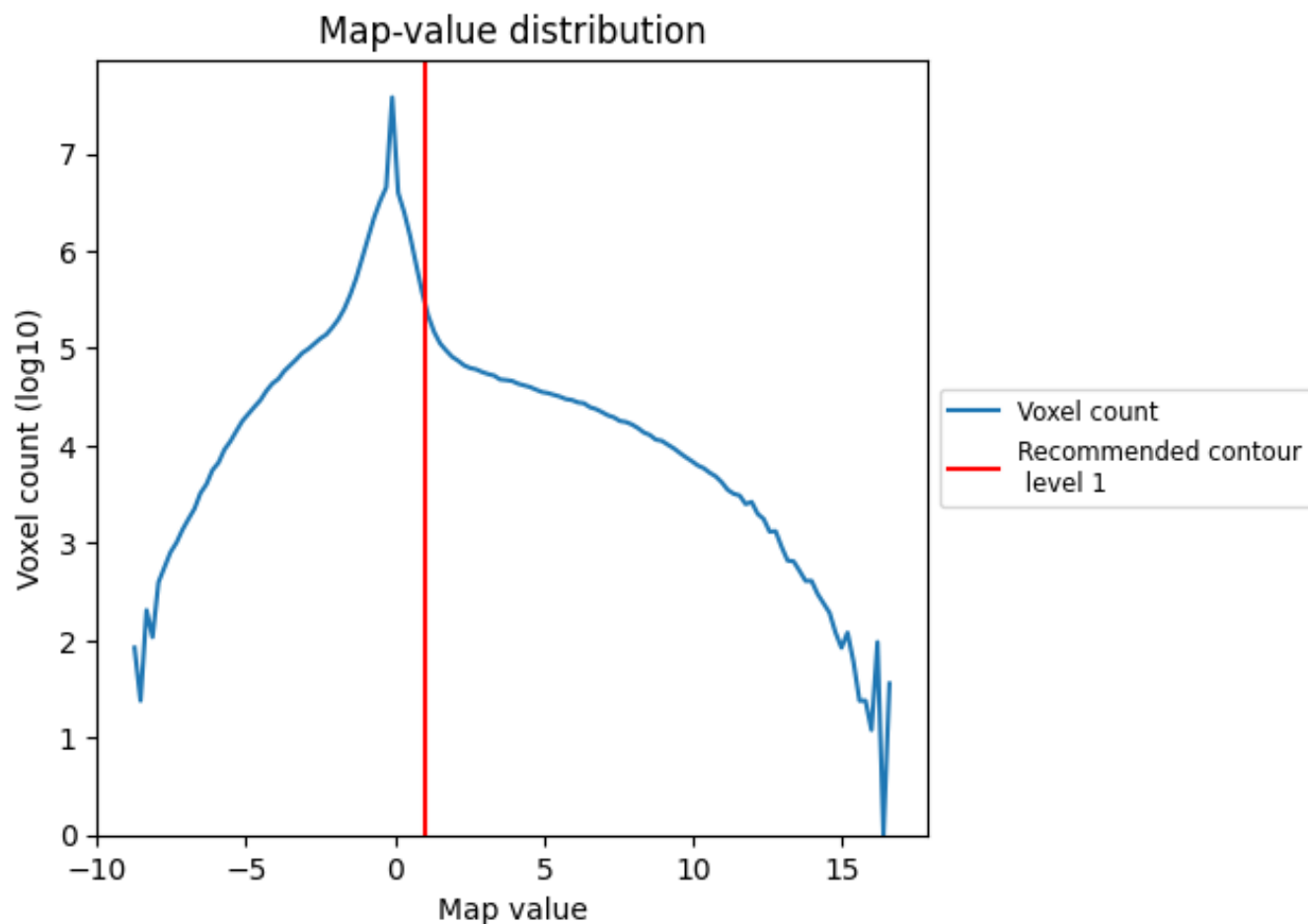
6.6 Mask visualisation

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

7 Map analysis [i](#)

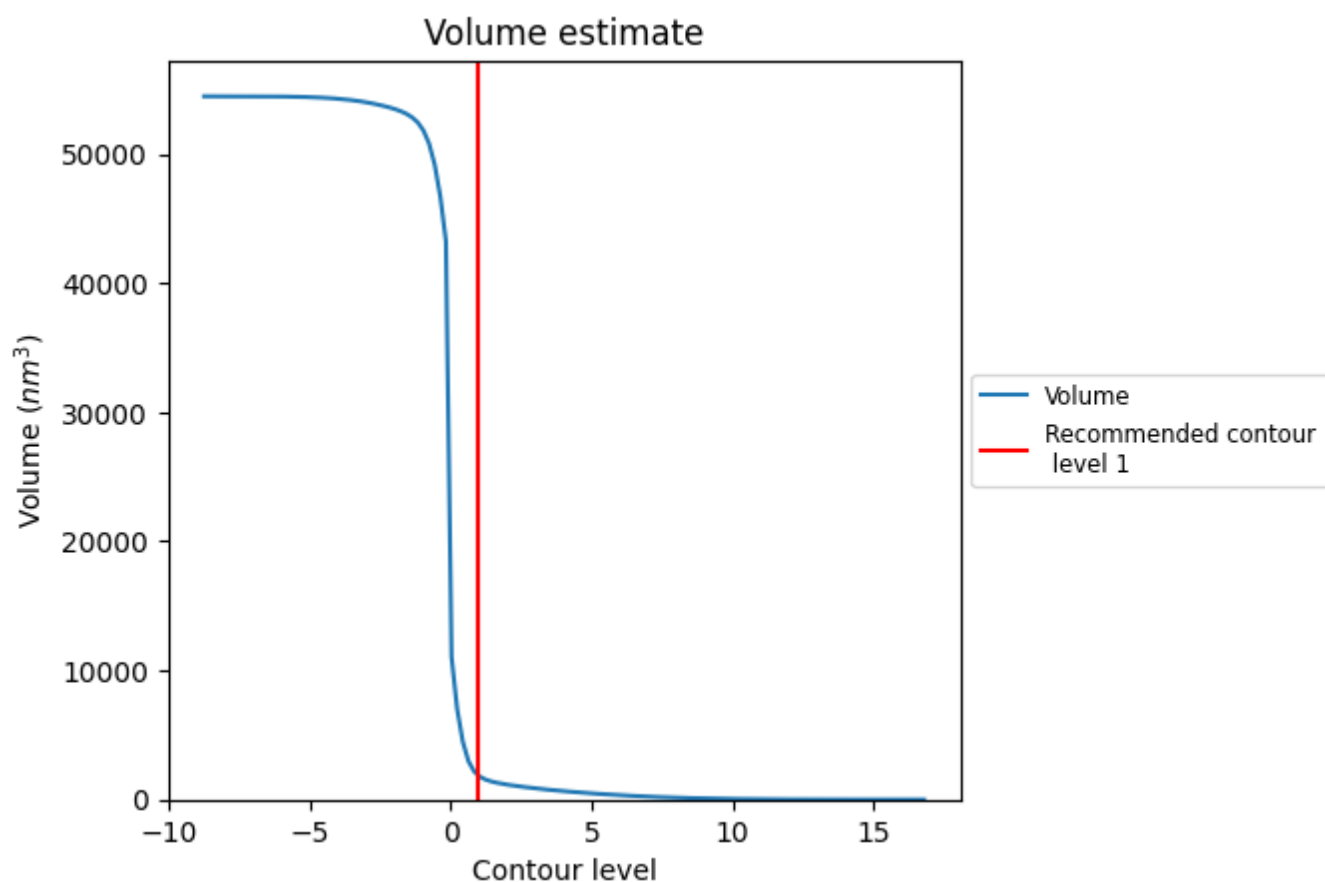
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



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.

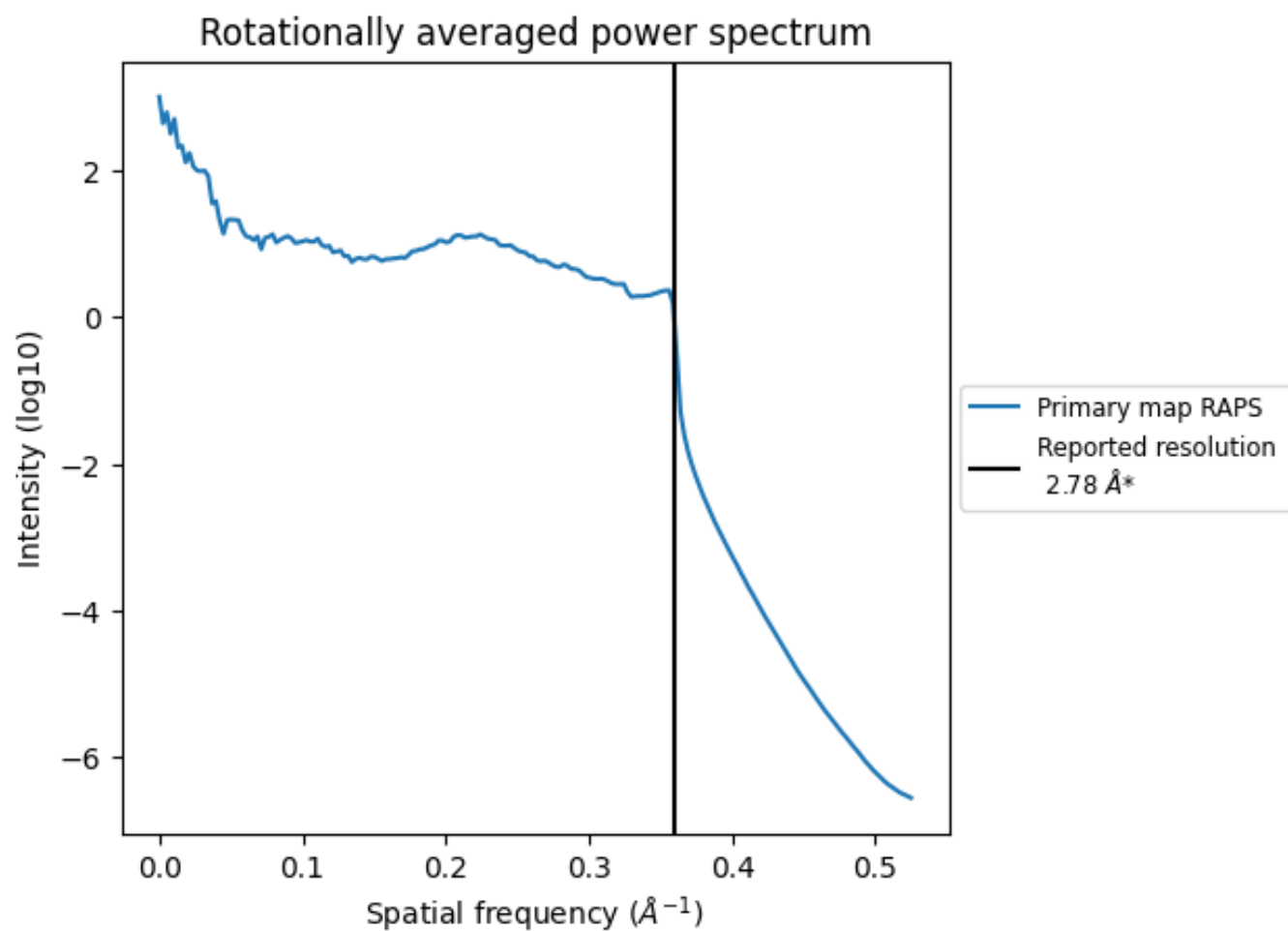
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1837 nm³; this corresponds to an approximate mass of 1660 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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.360 Å⁻¹

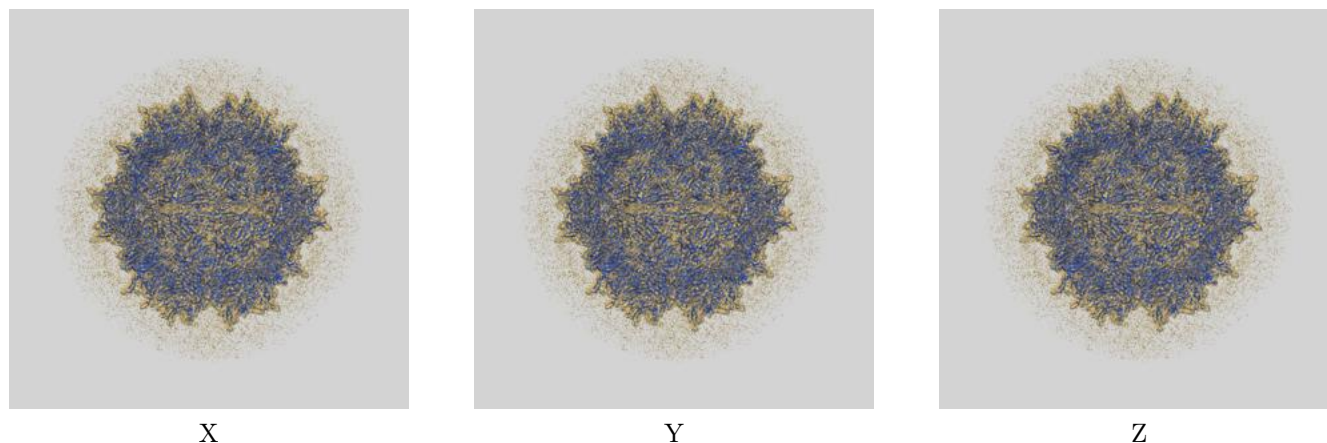
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

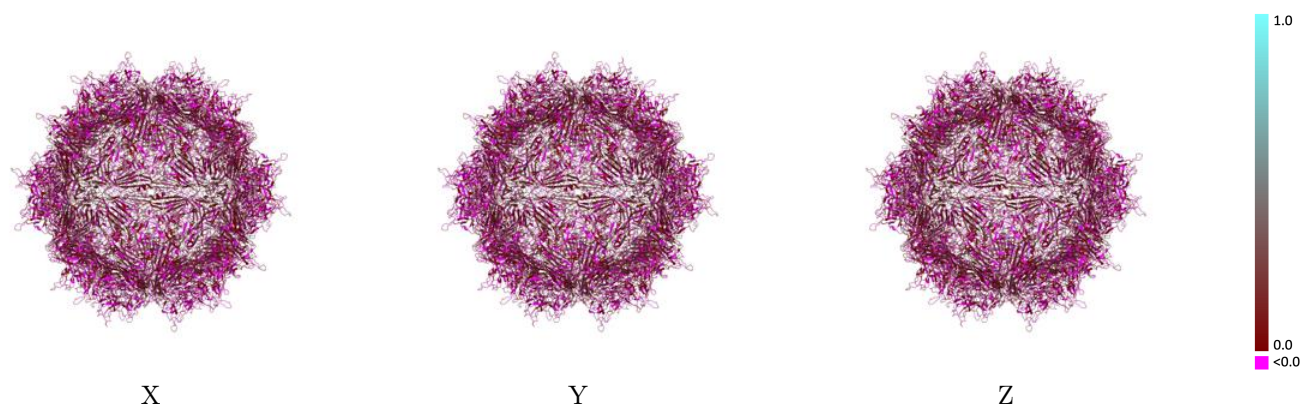
This section contains information regarding the fit between EMDB map EMD-7452 and PDB model 6CBE. Per-residue inclusion information can be found in section 3 on page 17.

9.1 Map-model overlay [i](#)



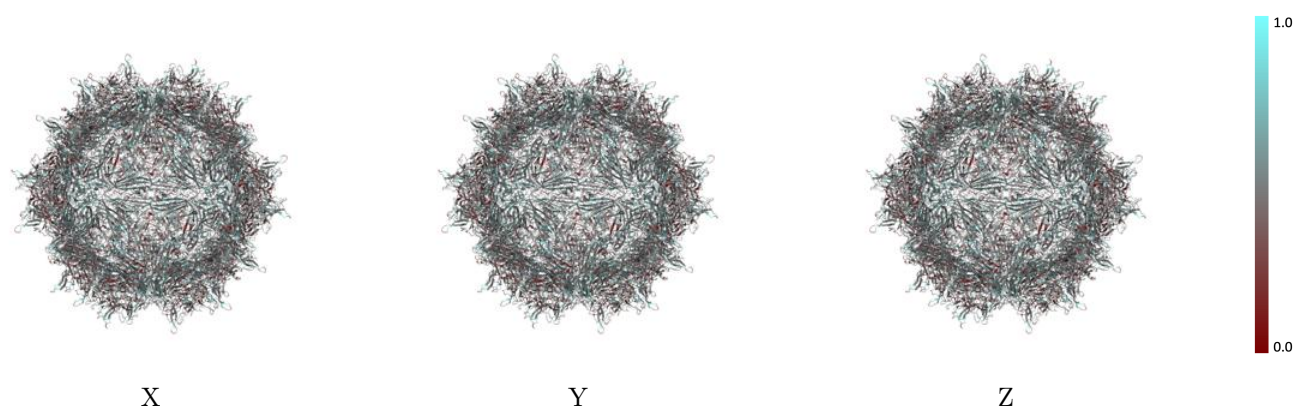
The images above show the 3D surface view of the map at the recommended contour level 1.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



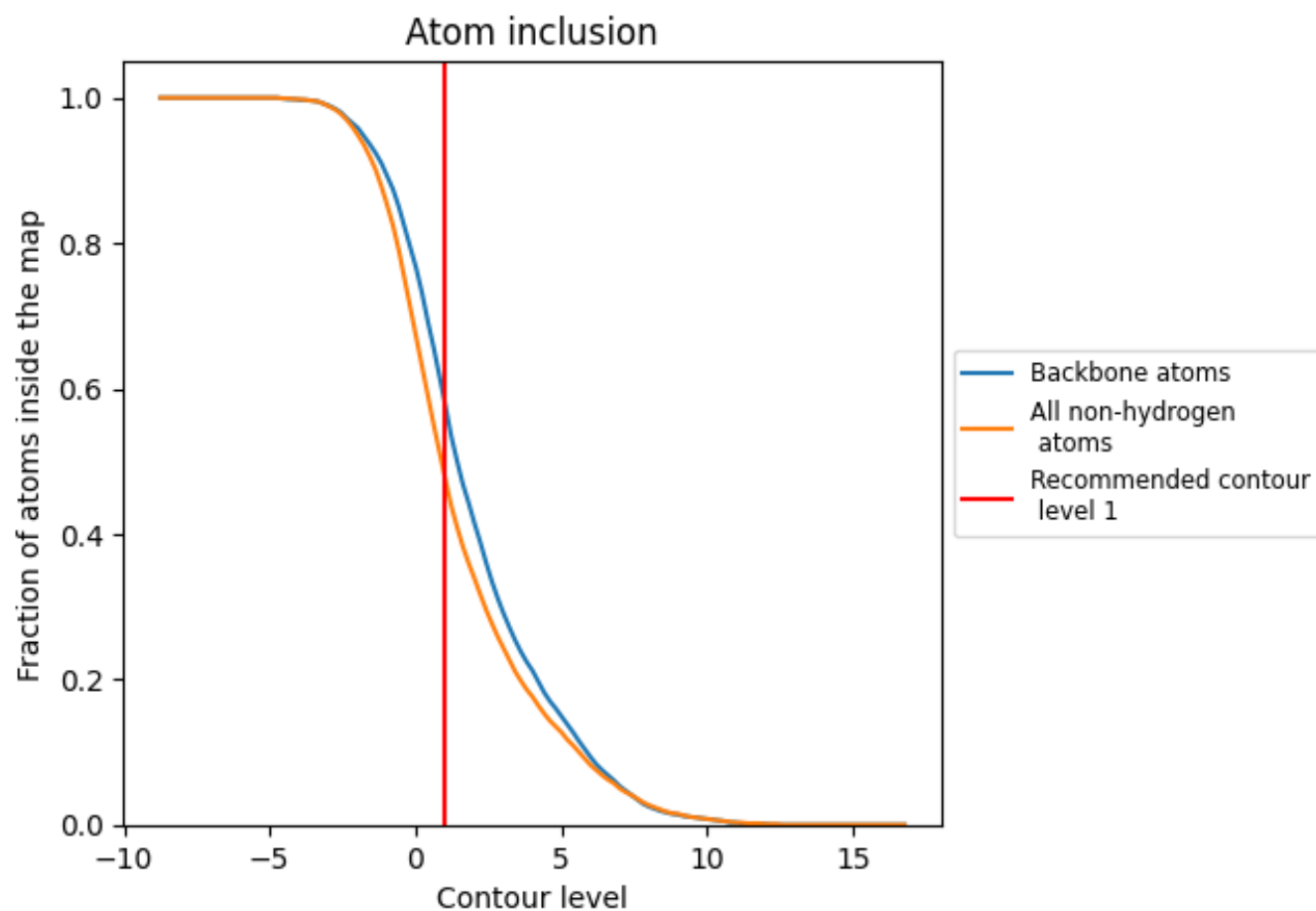
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (1).

9.4 Atom inclusion [i](#)



At the recommended contour level, 58% of all backbone atoms, 48% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.4800	 0.0960
0	 0.4810	 0.0980
1	 0.4810	 0.0960
2	 0.4840	 0.1060
3	 0.4820	 0.1020
4	 0.4770	 0.0940
5	 0.4830	 0.0820
6	 0.4780	 0.0990
7	 0.4780	 0.0970
A	 0.4810	 0.0930
B	 0.4770	 0.0910
C	 0.4830	 0.0880
D	 0.4780	 0.0870
E	 0.4830	 0.0890
F	 0.4840	 0.0970
G	 0.4780	 0.1000
H	 0.4780	 0.1000
I	 0.4820	 0.0970
J	 0.4770	 0.0990
K	 0.4820	 0.0990
L	 0.4760	 0.0930
M	 0.4780	 0.0940
N	 0.4820	 0.0970
O	 0.4760	 0.1040
P	 0.4810	 0.0920
Q	 0.4830	 0.0980
R	 0.4810	 0.1000
S	 0.4780	 0.1010
T	 0.4780	 0.1000
U	 0.4820	 0.1020
V	 0.4770	 0.1000
W	 0.4820	 0.1000
X	 0.4760	 0.0920
Y	 0.4810	 0.0950
Z	 0.4840	 0.0980



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Chain	Atom inclusion	Q-score
a	 0.4780	 0.0790
b	 0.4810	 0.0850
c	 0.4840	 0.0940
d	 0.4840	 0.0950
e	 0.4830	 0.0890
f	 0.4810	 0.1000
g	 0.4770	 0.1080
h	 0.4760	 0.1070
i	 0.4830	 0.1020
j	 0.4840	 0.1050
k	 0.4780	 0.1040
l	 0.4820	 0.1050
m	 0.4810	 0.1070
n	 0.4760	 0.0960
o	 0.4760	 0.0870
p	 0.4770	 0.0900
q	 0.4810	 0.0910
r	 0.4780	 0.0980
s	 0.4820	 0.0950
t	 0.4780	 0.0780
u	 0.4820	 0.0780
v	 0.4810	 0.0830
w	 0.4830	 0.0950
x	 0.4830	 0.0900
y	 0.4820	 0.0960
z	 0.4810	 0.0980