



wwPDB EM Map/Model Validation Report ⓘ

Sep 19, 2016 – 04:48 PM EDT

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

This is a wwPDB EM Map/Model Validation Report for a publicly released PDB/EMDB entry.
For rigid body fitted models, validation errors reported here could stem from errors in the original structure(s) used in the fitting.

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

A user guide is available at

<http://wwpdb.org/validation/2016/EMValidationReportHelp>

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20027939

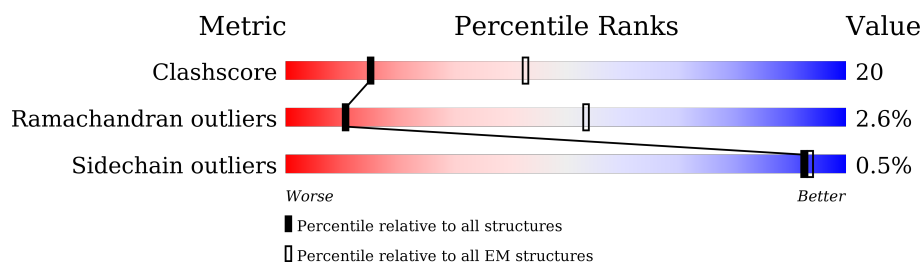
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.70 Å.

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



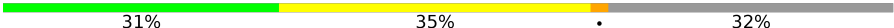
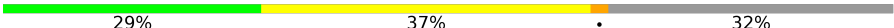
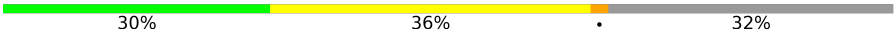
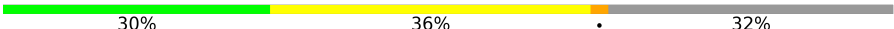
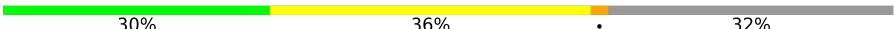
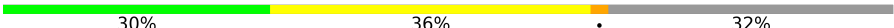
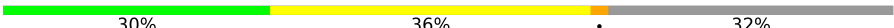
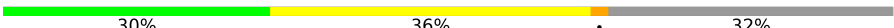
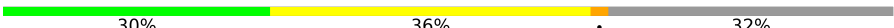
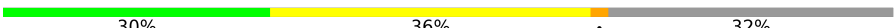
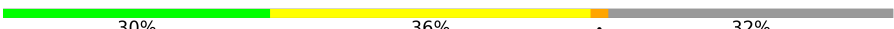
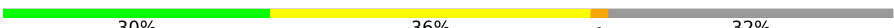
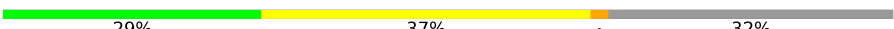
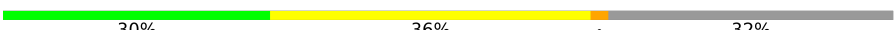
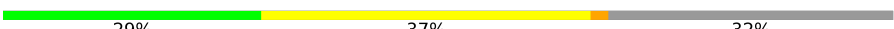
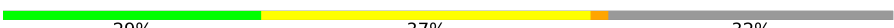
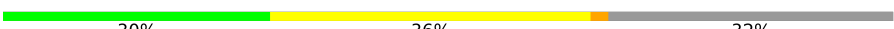
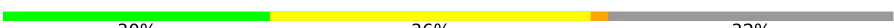
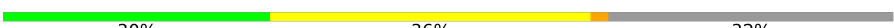
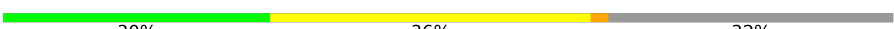
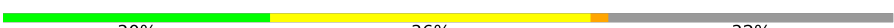
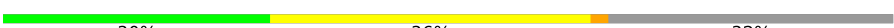
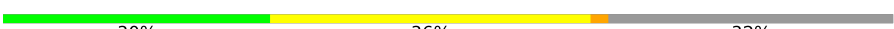
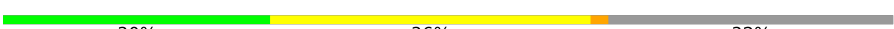

Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

The table below summarises the geometric issues observed across the polymeric chains. The red, orange, yellow and green segments on the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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 $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	1	735	30% 36% • 32%
1	2	735	31% 35% • 32%
1	3	735	31% 35% • 32%
1	4	735	30% 36% • 32%
1	5	735	30% 36% • 32%
1	6	735	30% 36% • 32%
1	7	735	30% 36% • 32%
1	8	735	31% 35% • 32%
1	A	735	30% 36% • 32%














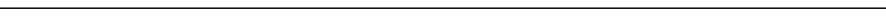











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Mol	Chain	Length	Quality of chain
1	B	735	
1	C	735	
1	D	735	
1	E	735	
1	F	735	
1	G	735	
1	H	735	
1	I	735	
1	J	735	
1	K	735	
1	L	735	
1	M	735	
1	N	735	
1	O	735	
1	P	735	
1	Q	735	
1	R	735	
1	S	735	
1	T	735	
1	U	735	
1	V	735	
1	W	735	
1	X	735	
1	Y	735	
1	Z	735	

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Mol	Chain	Length	Quality of chain
1	a	735	
1	b	735	
1	c	735	
1	d	735	
1	e	735	
1	f	735	
1	g	735	
1	h	735	
1	i	735	
1	j	735	
1	k	735	
1	l	735	
1	m	735	
1	n	735	
1	o	735	
1	p	735	
1	q	735	
1	r	735	
1	s	735	
1	t	735	
1	u	735	
1	v	735	
1	w	735	
1	x	735	
1	y	735	

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Mol	Chain	Length	Quality of chain
1	z	735	<div><div></div><div>65%</div><div></div><div>•</div><div>32%</div></div>

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 240540 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Capsid protein VP1.

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

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

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

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

There are 60 discrepancies between the modelled and reference sequences:

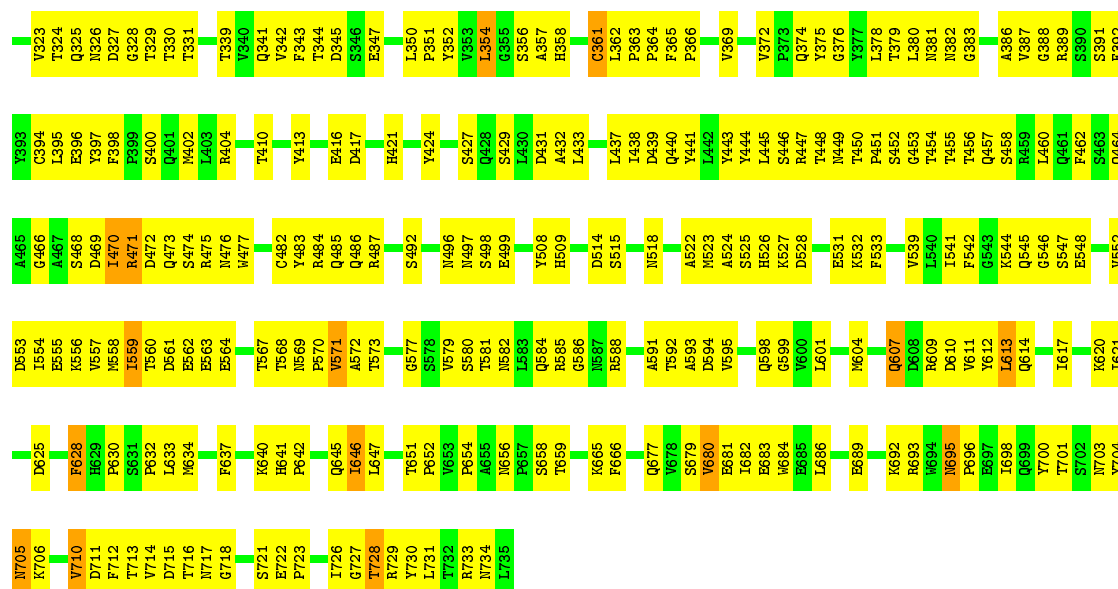
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B	432	ALA	ARG	engineered mutation	UNP P03135
C	432	ALA	ARG	engineered mutation	UNP P03135
D	432	ALA	ARG	engineered mutation	UNP P03135
E	432	ALA	ARG	engineered mutation	UNP P03135
F	432	ALA	ARG	engineered mutation	UNP P03135
G	432	ALA	ARG	engineered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

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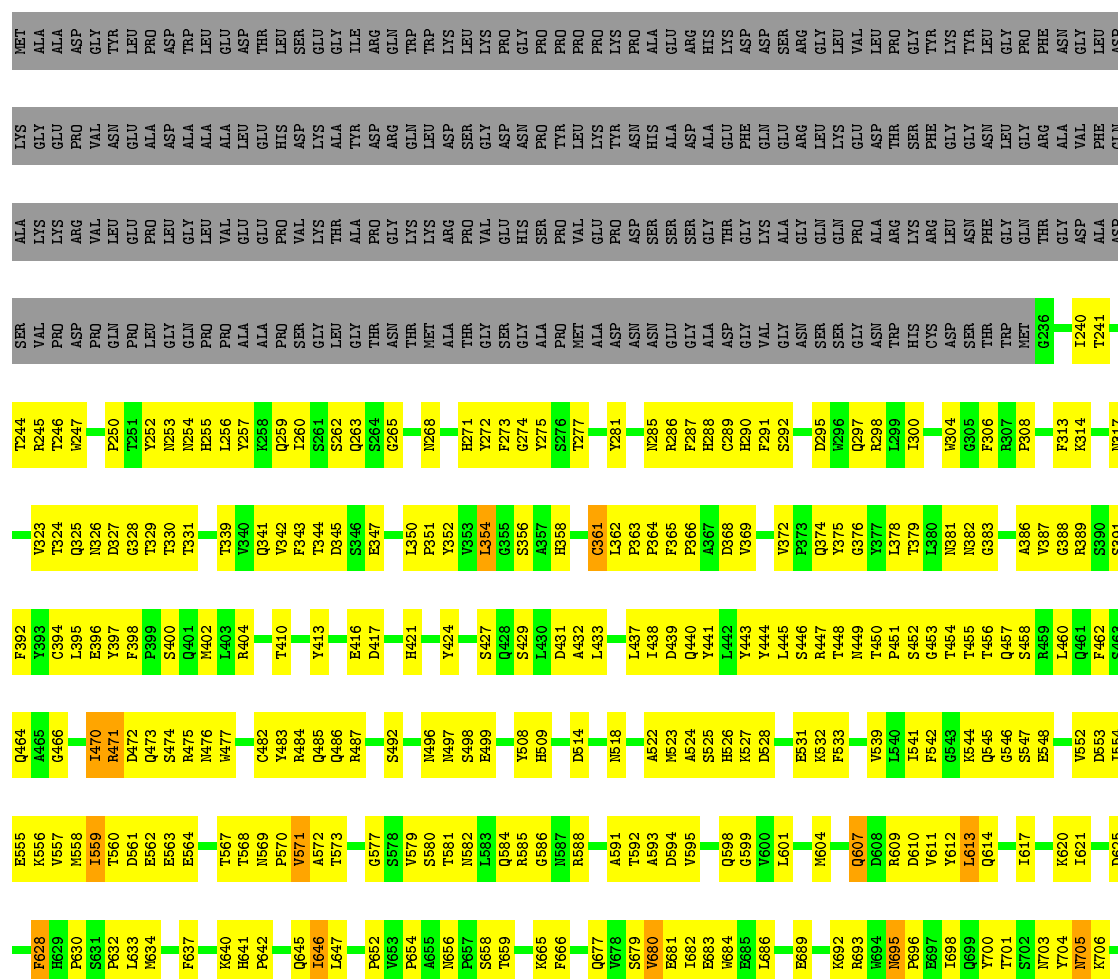
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Chain	Residue	Modelled	Actual	Comment	Reference
k	432	ALA	ARG	engineered mutation	UNP P03135
l	432	ALA	ARG	engineered mutation	UNP P03135
m	432	ALA	ARG	engineered mutation	UNP P03135
n	432	ALA	ARG	engineered mutation	UNP P03135
o	432	ALA	ARG	engineered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

- Molecule 1: Capsid protein VP1

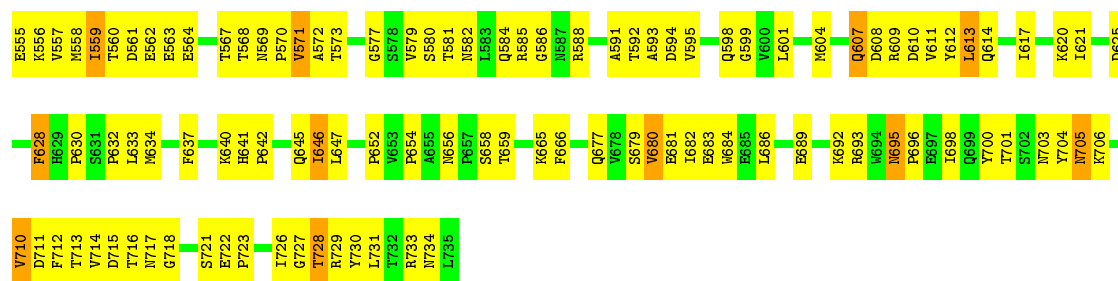


• Molecule 1: Capsid protein VP1



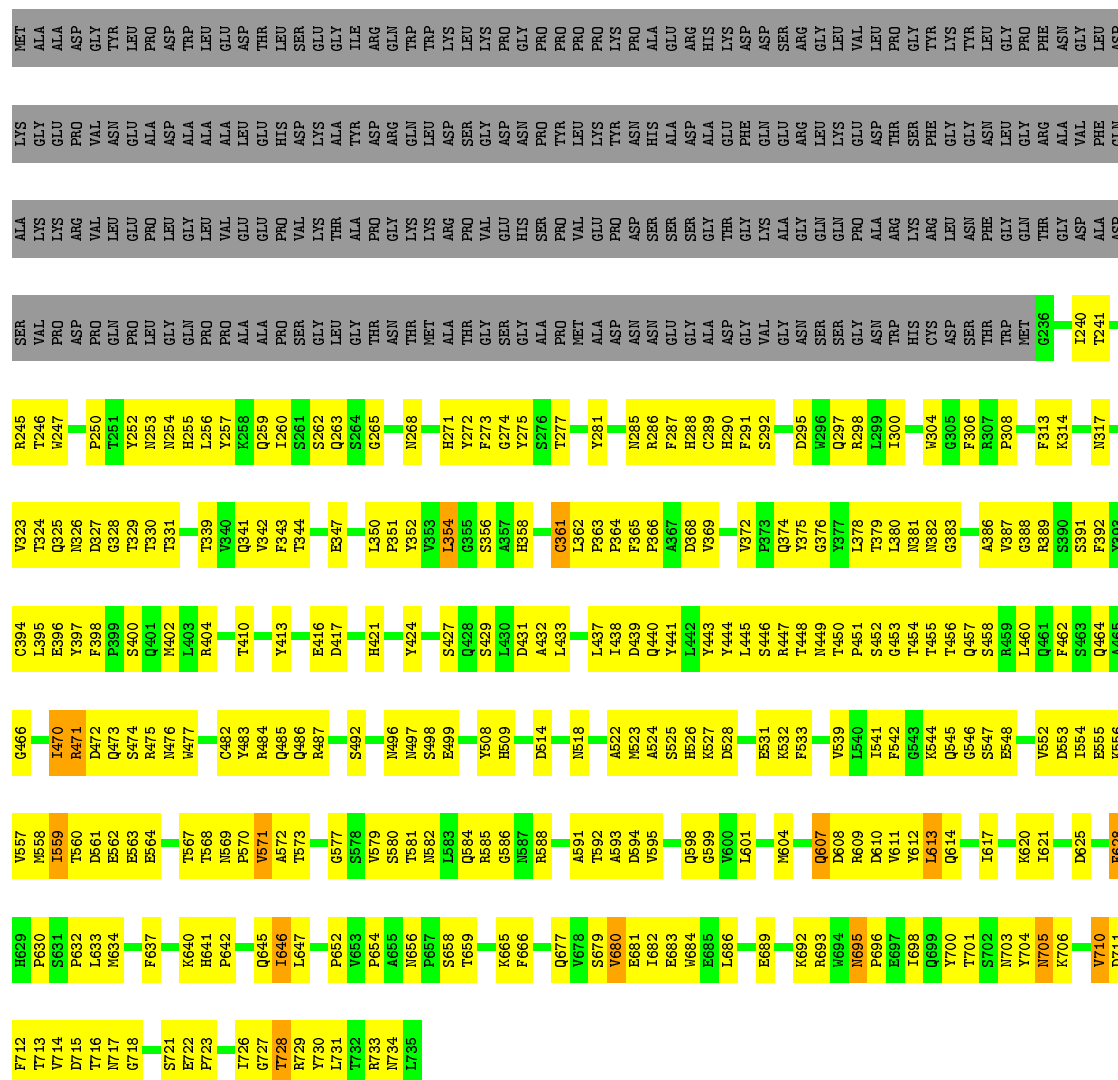


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• Molecule 1: Capsid protein VP1

Chain H: 30% 36% 32%



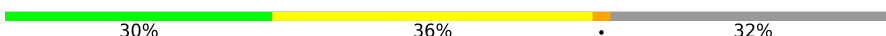
• Molecule 1: Capsid protein VP1

Chain I: 30% 36% 32%

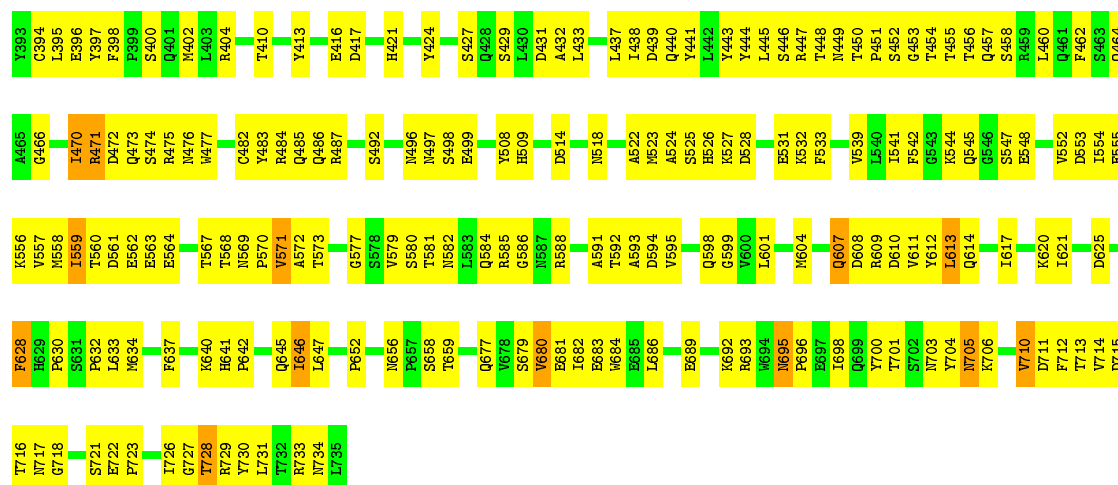


LYS	ALA	SER	V323	C394	V557	H529	V710	LYS	V323	C394	V557	H529	V710	LYS	ALA	SER	V323	C394	V557	H529	V710	LYS	ALA	SER
GLY	LYS	VAL	T324	L395	M558	P630	D711	GLY	T324	L395	M558	P630	D711	GLY	LYS	VAL	T324	L395	M558	P630	D711	GLY	LYS	VAL
PRO	LYS	PRO	Q325	E396	T559	S631	F712	PRO	Q325	E396	T559	S631	F712	PRO	LYS	PRO	Q325	E396	T559	S631	F712	PRO	LYS	PRO
VAL	ARG	ASP	N326	Y397	D661	P632	T713	VAL	N326	Y397	D661	P632	T713	VAL	ARG	ASP	N326	Y397	D661	P632	T713	VAL	ARG	ASP
ASN	VAL	PRO	D327	F398	E562	M634	D714	ASN	D327	F398	E562	M634	D714	ASN	VAL	PRO	D327	F398	E562	M634	D714	ASN	VAL	PRO
GLU	LEU	GLN	G328	P399	E563	F637	D715	GLU	G328	P399	E563	F637	D715	GLU	LEU	GLN	G328	P399	E563	F637	D715	GLU	LEU	GLN
ALA	PRO	LEU	T329	S400	E564	T716	T717	ALA	T329	S400	E564	T716	T717	ALA	PRO	LEU	T329	S400	E564	T716	T717	ALA	PRO	LEU
ASP	GLU	GLY	T331	M402	M476	G718	G718	ASP	T331	M402	M476	G718	G718	ASP	GLU	GLY	T331	M402	M476	G718	G718	ASP	GLU	GLY
ALA	LEU	ALA	T339	R404	N477	S721	S721	ALA	T339	R404	N477	S721	S721	ALA	LEU	ALA	T339	R404	N477	S721	S721	ALA	LEU	ALA
LEU	VAL	PRO	V340	T410	C482	H641	E722	LEU	V340	T410	C482	H641	E722	LEU	VAL	PRO	V340	T410	C482	H641	E722	LEU	VAL	PRO
GLU	GLU	ALA	Q341	P570	Y483	P642	F723	GLU	Q341	P570	Y483	P642	F723	GLU	GLU	ALA	Q341	P570	Y483	P642	F723	GLU	GLU	ALA
HIS	PRO	PRO	V342	Y413	R484	Q645	T726	HIS	V342	Y413	R484	Q645	T726	HIS	PRO	PRO	V342	Y413	R484	Q645	T726	HIS	PRO	PRO
ASP	VAL	SER	F343	Q486	Q485	I646	G727	ASP	F343	Q486	Q485	I646	G727	ASP	VAL	SER	F343	Q486	Q485	I646	G727	ASP	VAL	SER
LYS	THR	LYS	D345	R487	R487	I648	T728	LYS	D345	R487	R487	I648	T728	LYS	THR	LYS	D345	R487	R487	I648	T728	LYS	THR	LYS
ALA	THR	ALA	S346	D417	S492	T729	T729	ALA	S346	D417	S492	T729	T729	ALA	THR	ALA	S346	D417	S492	T729	T729	ALA	THR	ALA
TYR	ALA	GLY	E347	H421	S492	T730	T730	TYR	E347	H421	S492	T730	T730	TYR	ALA	GLY	E347	H421	S492	T730	T730	TYR	ALA	GLY
ASP	PRO	THR	L350	Y424	M496	P652	L731	ASP	L350	Y424	M496	P652	L731	ASP	PRO	THR	L350	Y424	M496	P652	L731	ASP	PRO	THR
ARG	GLY	ASN	P351	Y424	M496	P652	L732	ARG	P351	Y424	M496	P652	L732	ARG	GLY	ASN	P351	Y424	M496	P652	L732	ARG	GLY	ASN
LEU	LYS	THR	Y352	M497	T581	P653	R733	LEU	Y352	M497	T581	P653	R733	LEU	LYS	THR	Y352	M497	T581	P653	R733	LEU	LYS	THR
LEU	LYS	MET	Y352	S498	N582	A655	N734	LEU	Y352	S498	N582	A655	N734	LEU	LYS	MET	Y352	S498	N582	A655	N734	LEU	LYS	MET
ASP	ARG	ALA	H271	E499	Q584	N656	L735	ASP	H271	E499	Q584	N656	L735	ASP	ARG	ALA	H271	E499	Q584	N656	L735	ASP	ARG	ALA
SER	PRO	THR	Y272	Y508	Q584	P657		SER	Y272	Y508	Q584	P657		SER	PRO	THR	Y272	Y508	Q584	P657		SER	PRO	THR
GLY	VAL	GLY	F273	H509	R585	S658		GLY	F273	H509	R585	S658		GLY	VAL	GLY	F273	H509	R585	S658		GLY	VAL	GLY
ASP	GLU	ASN	G274	H509	G586	T659		ASP	G274	H509	G586	T659		ASP	GLU	ASN	G274	H509	G586	T659		ASP	GLU	ASN
ASN	HIS	GLY	Y275	D514	R588	K665		ASN	Y275	D514	R588	K665		ASN	HIS	GLY	Y275	D514	R588	K665		ASN	HIS	GLY
PRO	TYR	PRO	S276	D514	R588	K665		PRO	S276	D514	R588	K665		PRO	TYR	PRO	S276	D514	R588	K665		PRO	TYR	PRO
LEU	VAL	MET	T277	M518	A591	P666		LEU	T277	M518	A591	P666		LEU	VAL	MET	T277	M518	A591	P666		LEU	VAL	MET
LYS	GLU	ALA	Y281	A522	T592	Q677		LYS	Y281	A522	T592	Q677		LYS	GLU	ALA	Y281	A522	T592	Q677		LYS	GLU	ALA
TYR	PRO	ASP	P285	M523	A593	V678		TYR	P285	M523	A593	V678		TYR	PRO	ASP	P285	M523	A593	V678		TYR	PRO	ASP
ASN	SER	ASN	N285	F364	D594	S679		ASN	N285	F364	D594	S679		ASN	SER	ASN	N285	F364	D594	S679		ASN	SER	ASN
HIS	SER	ALA	F365	HIS	V595	V680		HIS	F365	HIS	V595	V680		HIS	SER	ALA	F365	HIS	V595	V680		HIS	SER	ALA
ALA	SER	GLY	P366	GLU	F365	E681		ALA	P366	GLU	F365	E681		ALA	SER	GLY	P366	GLU	F365	E681		ALA	SER	GLY
ASP	SER	ASP	P366	GLY	F365	E681		ASP	P366	GLY	F365	E681		ASP	SER	ASP	P366	GLY	F365	E681		ASP	SER	ASP
ALA	GLY	ALA	H288	GLY	I682	E683		ALA	H288	GLY	I682	E683		ALA	GLY	ALA	H288	GLY	I682	E683		ALA	GLY	ALA
GLU	THR	ASP	C289	ALA	G599	E683		GLU	C289	ALA	G599	E683		GLU	THR	ASP	C289	ALA	G599	E683		GLU	THR	ASP
PHE	GLY	ASP	H290	ASP	M604	M684		PHE	H290	ASP	M604	M684		PHE	GLY	ASP	H290	ASP	M604	M684		PHE	GLY	ASP
GLN	LYS	VAL	F291	GLY	L601	L686		GLN	F291	GLY	L601	L686		GLN	LYS	VAL	F291	GLY	L601	L686		GLN	LYS	VAL
GLU	ALA	GLY	S292	VAL	M604	L686		GLU	S292	VAL	M604	L686		GLU	ALA	GLY	S292	VAL	M604	L686		GLU	ALA	GLY
ARG	GLY	ASN	D295	ARG	M604	E689		ARG	D295	ARG	M604	E689		ARG	GLY	ASN	D295	ARG	M604	E689		ARG	GLY	ASN
LEU	LEU	SER	H295	LEU	Q607	D608		LEU	H295	LEU	Q607	D608		LEU	LEU	SER	H295	LEU	Q607	D608		LEU	LEU	SER
LYS	LYS	SER	Q297	LYS	D609	R693		LYS	Q297	LYS	D609	R693		LYS	LYS	SER	Q297	LYS	D609	R693		LYS	LYS	SER
GLU	PRO	GLY	R298	GLU	D610	M694		GLU	R298	GLU	D610	M694		GLU	PRO	GLY	R298	GLU	D610	M694		GLU	PRO	GLY
ALA	ALA	ASP	L299	ALA	V611	N695		ALA	L299	ALA	V611	N695		ALA	ALA	ASP	L299	ALA	V611	N695		ALA	ALA	ASP
THR	ARG	THR	I300	THR	P696	P696		THR	I300	THR	P696	P696		THR	ARG	THR	I300	THR	P696	P696		THR	ARG	THR
LYS	LYS	HIS	H304	LYS	L613	E697		LYS	H304	LYS	L613	E697		LYS	LYS	HIS	H304	LYS	L613	E697		LYS	LYS	HIS
PHE	ARG	CYS	G305	PHE	Q614	I698		PHE	G305	PHE	Q614	I698		PHE	ARG	CYS	G305	PHE	Q614	I698		PHE	ARG	CYS
GLY	LEU	ASP	F306	GLY	Q699	K699		GLY	F306	GLY	Q699	K699		GLY	LEU	ASP	F306	GLY	Q699	K699		GLY	LEU	ASP
ASN	PHE	THR	R307	ASN	T701	T701		ASN	R307	ASN	T701	T701		ASN	PHE	THR	R307	ASN	T701	T701		ASN	PHE	THR
LEU	GLY	TRP	P308	LEU	S702	S702		LEU	P308	LEU	S702	S702		LEU	GLY	TRP	P308	LEU	S702	S702		LEU	GLY	TRP
GLY	ARG	MET	G236	GLY	I703	I703		GLY	G236	GLY	I703	I703		GLY	ARG	MET	G236	GLY	I703	I703		GLY	ARG	MET
ALA	THR	GLY	F313	ALA	T704	T704		ALA	F313	ALA	T704	T704		ALA	THR	GLY	F313	ALA	T704	T704		ALA	THR	GLY
ALA	GLY	ASP	K314	ALA	VAL	VAL		ALA	K314	ALA	VAL	VAL		ALA	GLY	ASP	K314	ALA	VAL	VAL		ALA	GLY	ASP
PHE	ALA	ALA	N317	PHE	S391	S391		PHE	N317	PHE	S391	S391		PHE	ALA	ALA	N317	PHE	S391	S391		PHE	ALA	ALA
GLN	ASP	ASP	T241	GLN	F392	F392		GLN	T241	GLN	F392	F392		GLN	ASP	ASP	T241	GLN	F392	F392		GLN	ASP	ASP

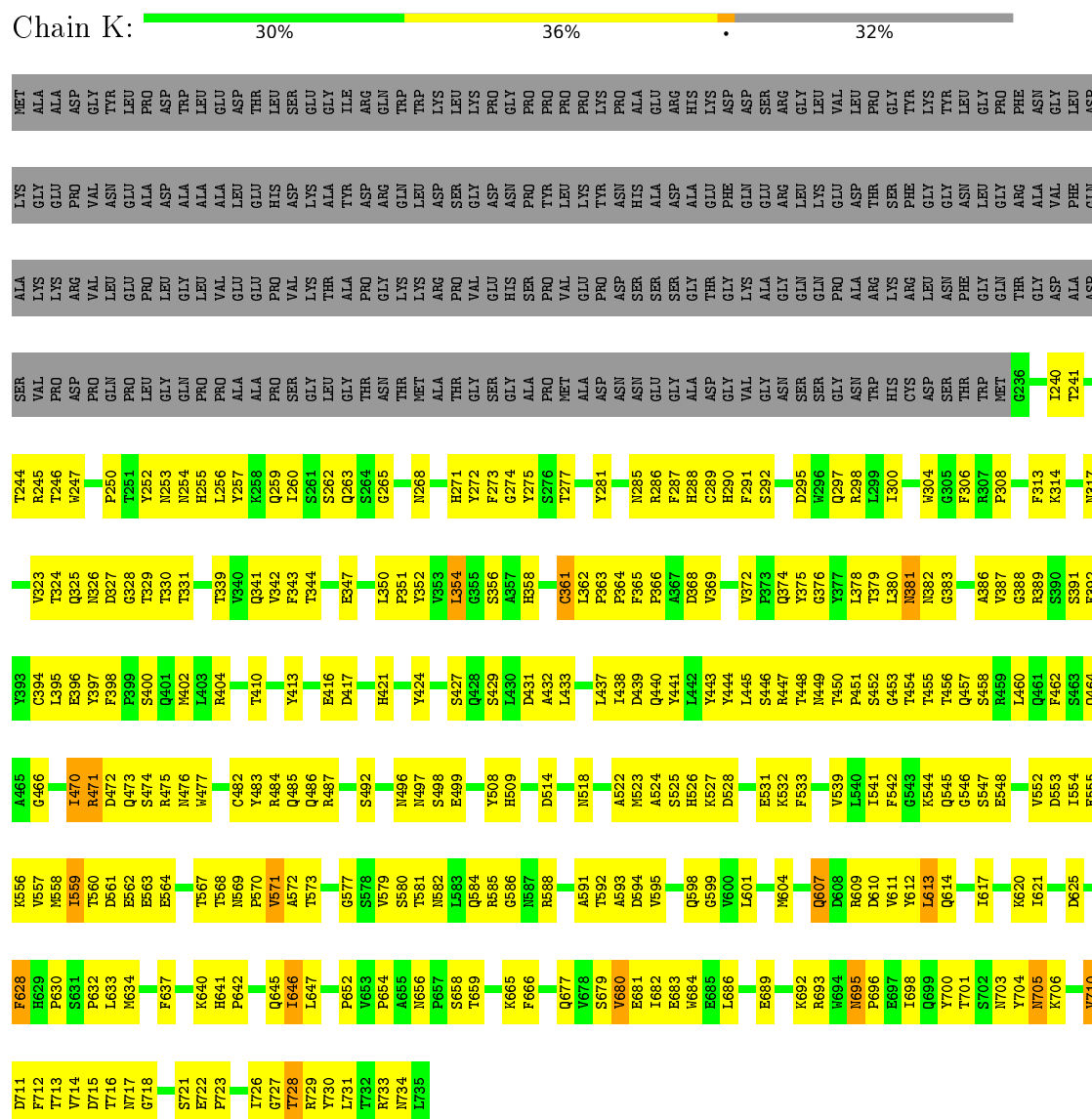
• Molecule 1: Capsid protein VP1

Chain J:  30% 36% 32%

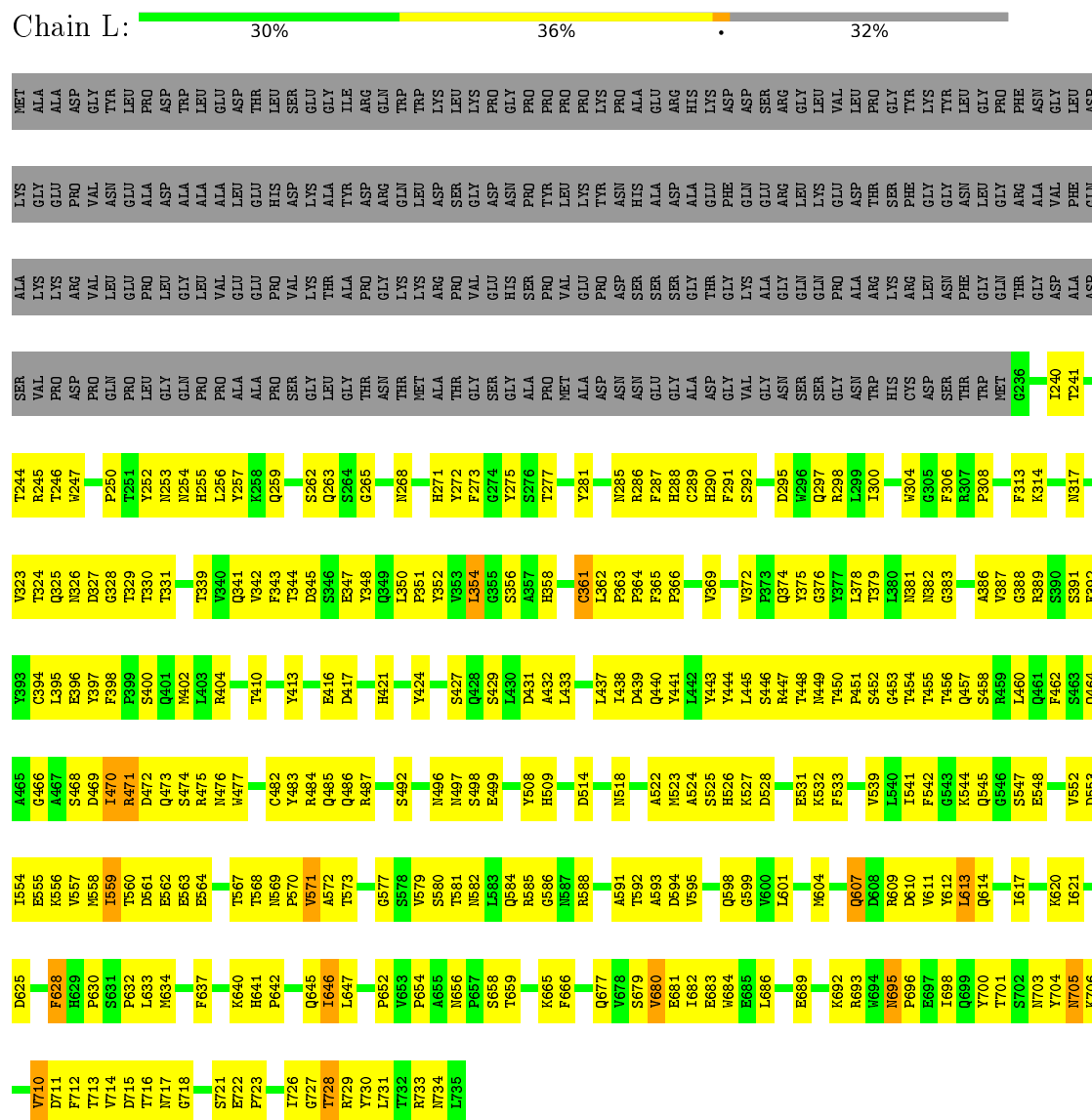
V323	T244	SER	ALA	LYS	MET
T324	R245	VAL	LYS	GLY	ALA
Q325	T246	PRO	LYS	GLY	ALA
N326	W247	ASP	ARG	PRO	ASP
D327		PRO	VAL	VAL	GLY
G328	P250	GLN	LEU	ASN	TYR
T329	T251	PRO	GLU	GLU	LEU
T330	Y252	LEU	PRO	ALA	PRO
T331	N253	GLY	LEU	ASP	ASP
	N254	GLN	GLY	ALA	TRP
T339	H255	PRO	LEU	ALA	LEU
V340	L256	PRO	VAL	ALA	GLU
Q341	Y257	ALA	GLU	LEU	ASP
V342	K258	GLU	GLU	GLY	THR
F343	Q259	PRO	PRO	HIS	LEU
T344	S262	SER	VAL	ASP	SER
D345	Q263	GLY	LYS	LYS	GLY
S346	S264	LEU	THR	ALA	GLY
E347	G265	GLY	ALA	TYR	ILE
L350	N268	THR	LYS	GLN	GLN
P351		THR	LYS	LEU	TRP
V352	H271	MET	LYS	ASP	LYS
V353	Y272	ALA	ARG	ASP	LEU
L354	T273	THR	PRO	SER	SER
G355	F273	GLY	VAL	GLY	LYS
S356	G274	SER	GLU	ASP	PRO
A357	Z275	GLY	HIS	ASN	GLY
H358	S276	ALA	SER	PRO	PRO
	T277	PRO	PRO	TYR	PRO
		MET	VAL	LEU	PRO
C361	Y281	ALA	GLU	LYS	PRO
P363		ASP	PRO	TYR	LYS
P364	N285	ASN	ASP	ASN	PRO
F365	R286	ASN	SER	HIS	ALA
P366	F287	GLU	SER	ALA	GLU
A367	H288	GLY	SER	ASP	ARG
D368	C289	GLY	GLY	ALA	HIS
V369	H290	ASP	THR	GLY	LYS
	F291	GLY	GLY	PHE	ASP
	S292	VAL	LYS	GLN	ASP
V372		VAL	ALA	GLU	SER
F373	T295	GLY	ALA	GLY	SER
Q374	D296	ASN	GLY	ARG	ARG
V375	W296	SER	GLY	LEU	GLY
Q297	Q297	PRO	LYS	LYS	LEU
R298	G297	GLY	PRO	GLU	VAL
L399	L299	ASN	ALA	ASP	LEU
T379	T300	TRP	ARG	THR	PRO
L380		HIS	LYS	SER	GLY
N381	W304	CYS	ARG	PHE	TYR
N382	G305	ASP	LEU	GLY	LYS
G383	R307	SER	ASN	GLY	TYR
	F307	THR	PHE	ASN	LEU
	P308	TRP	GLY	LEU	GLY
A386		MET	GLN	GLY	PRO
V387	F313	THR	THR	ARG	PHE
G388	K314	GLY	GLY	ALA	ASN
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S391	T241	ASP	ALA	GLY	ASP
T392					



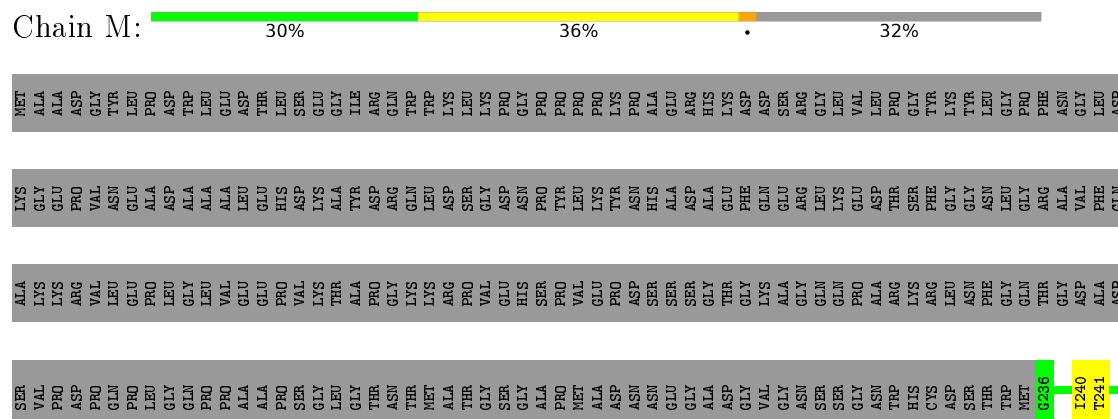
• Molecule 1: Capsid protein VP1

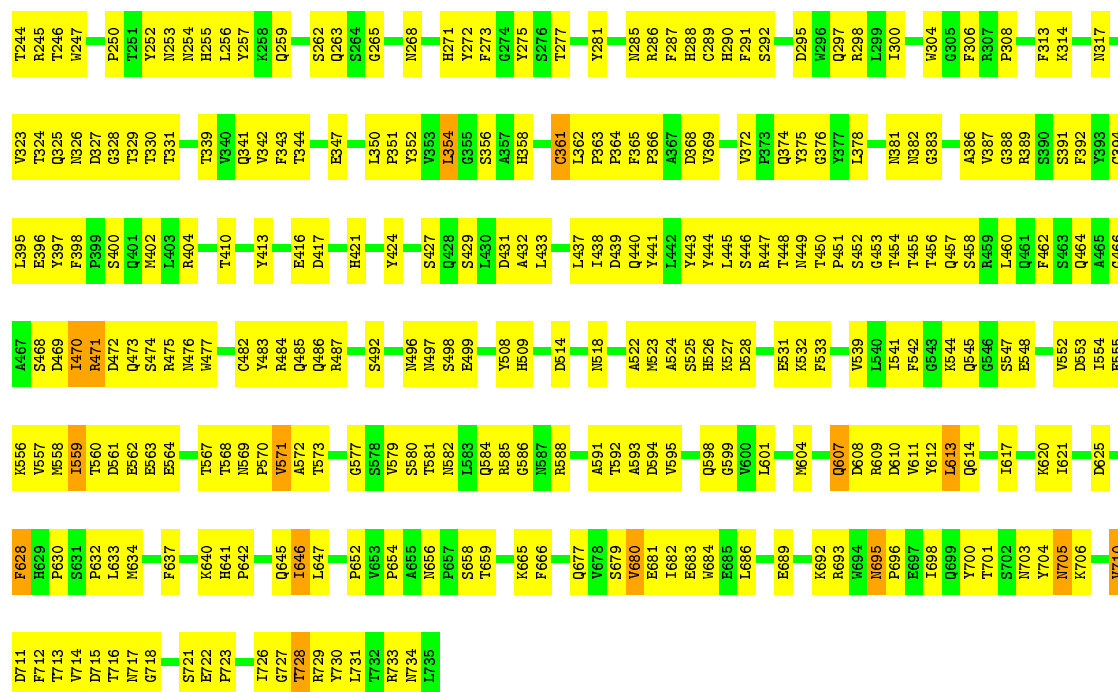


• Molecule 1: Capsid protein VP1

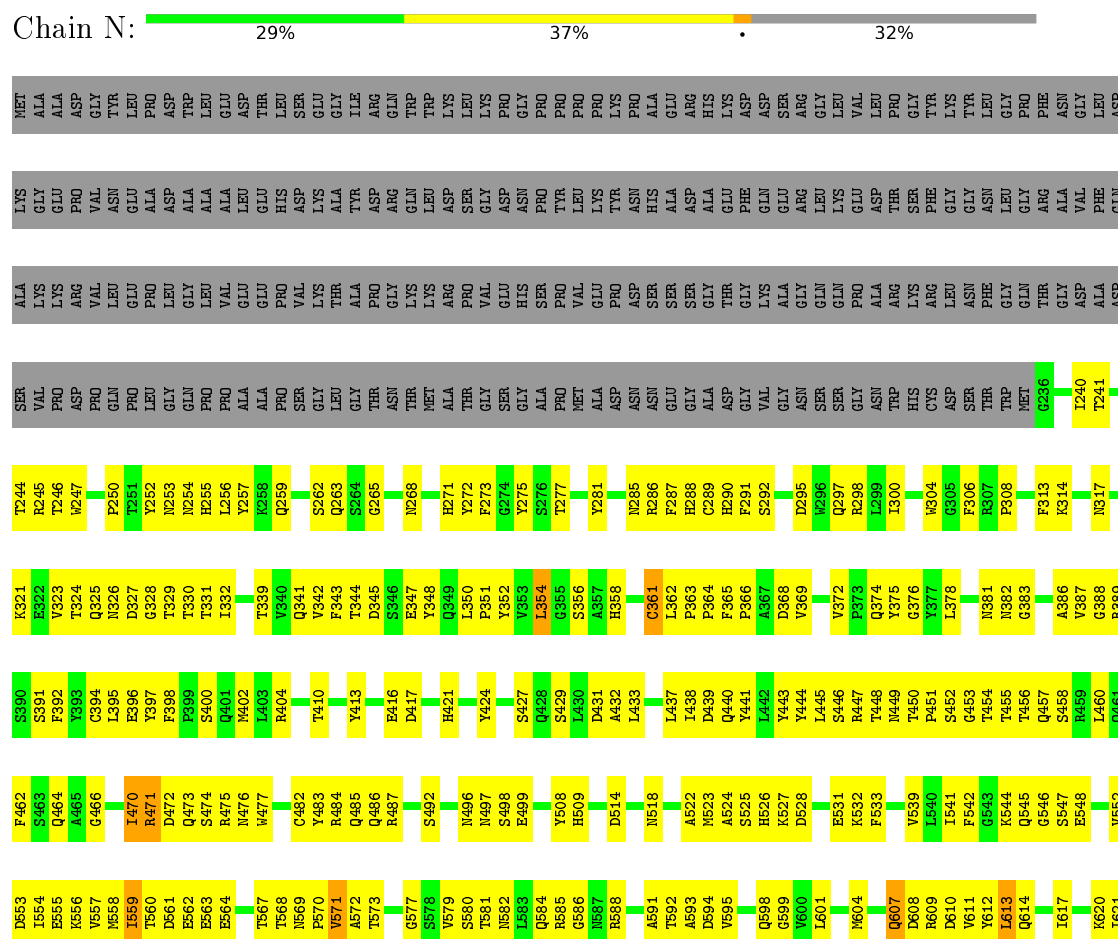


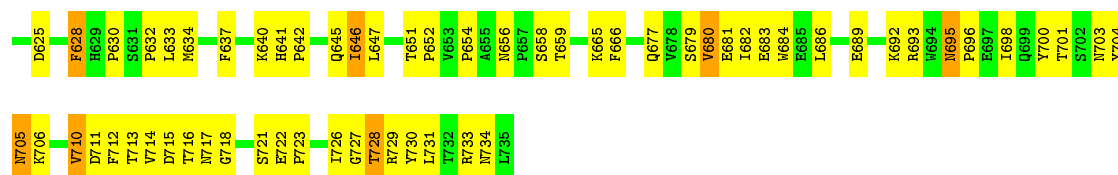
• Molecule 1: Capsid protein VP1





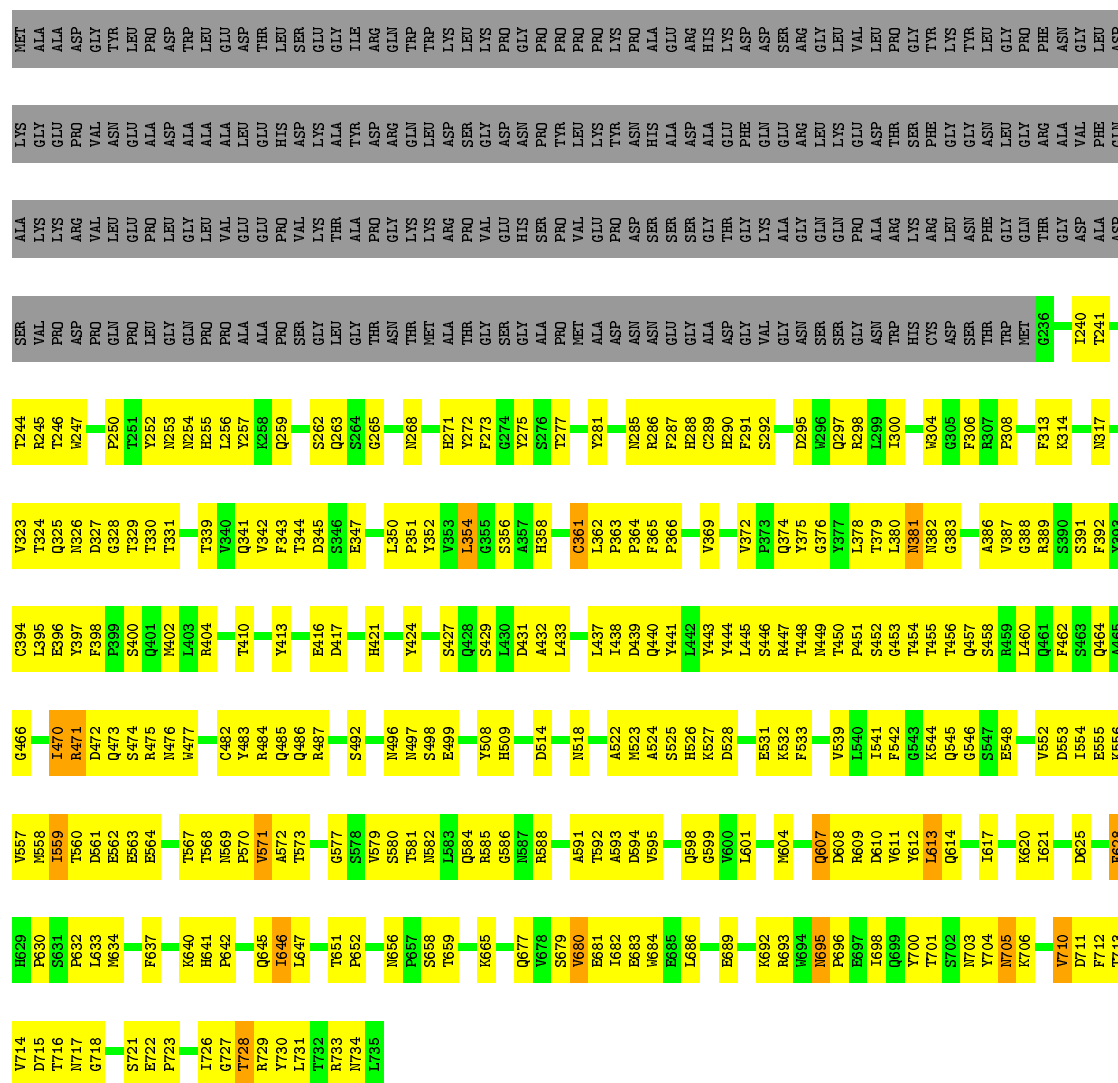
• Molecule 1: Capsid protein VP1





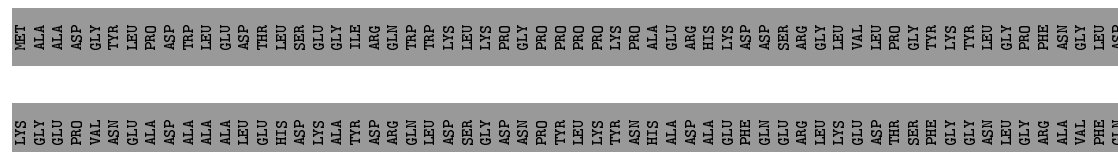
• Molecule 1: Capsid protein VP1

Chain O: 30% 36% 32%



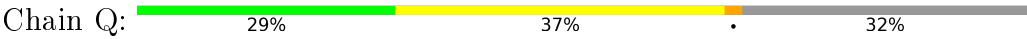
• Molecule 1: Capsid protein VP1

Chain P: 29% 37% 32%

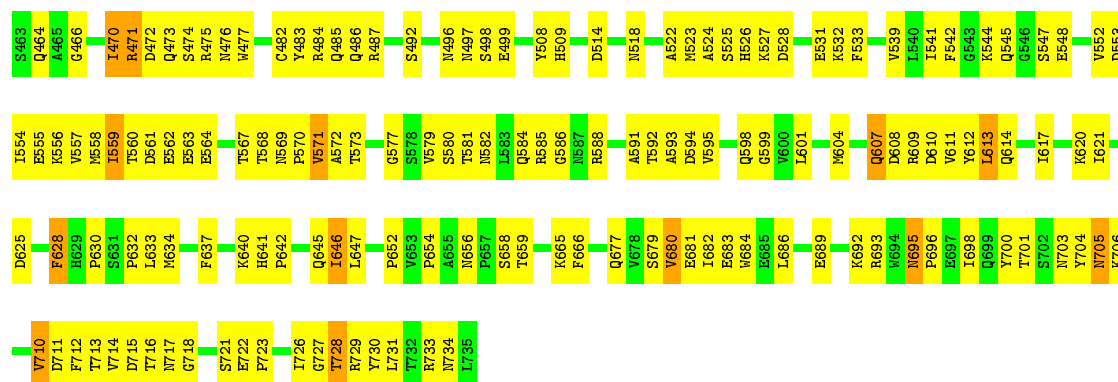


D711	F712	T713	W714	D715	T716	N717	G718	S721	E722	P723	I726	G727	T728	R729	Y730	L731	T732	N733	W734	L735	Q677	V678	S679	V680	E681	I682	E683	M684	L686	E689	K692	R693	M694	N695	P696	Y700	T701	S702	N703	Y704	N705	K706	V710																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1553	1554	1555	1556	1557	1558	1559	1560	1561	1562	1563	1564	1565	1566	1567	1568	1569	1570	1571	1572	1573	1574	1575	1576	1577	1578	1579	1580	1581	1582	1583	1584	1585	1586	1587	1588	1589	1590	1591	1592	1593	1594	1595	1596	1597	1598	1599	1600																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Q464	A465	A466	A467	S468	D469	T470	R471	D472	Q473	S474	R475	R476	W477	C482	Y483	R484	Q485	Q486	S487	S488	Y489	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Y392	Y393	C394	L395	E396	Y397	F398	F399	S400	Q401	M402	L403	R404	T410	Y413	E416	D417	H421	Y424	S427	Q428	S429	S356	L430	A357	H358	C361	L362	P363	P364	F365	P366	A367	D368	V369	V372	P373	Q374	Y375	G376	Y377	T379	S452	T453	T454	T455	Q457	S458	R459	L460	Q461	F462	S463																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
R245	R246	W247																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							</

● Molecule 1: Capsid protein VP1

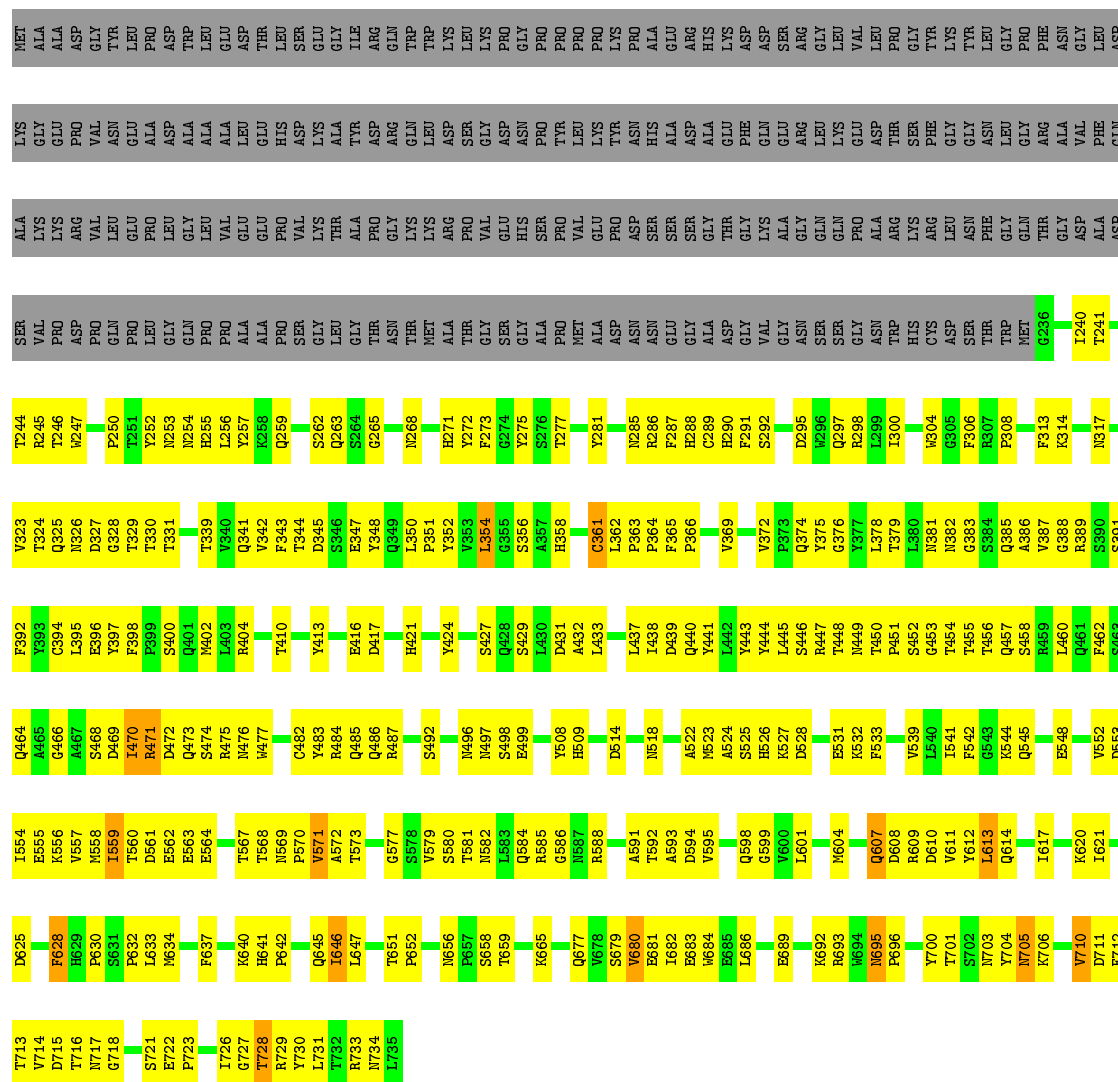


S391	F392	Y393	C394	L395	E396	Y397	F398	F399	S400	Q401	M402	L403	R404	T410	Y413	R416	D417	H421	Y424	S427	Q428	S429	L430	A431	A432	L433	L437	L438	D439	Y441	L442	Y443	L444	S446	T447	T448	N449	T450	S452	O453	T454	T455	Q456	S457	R458	L459	L460	Q461					
V323	T324	N325	D327	G328	T329	T330	T331	T339	V340	V342	F343	T344	D345	Q346	E347	Y348	Q349	L350	P351	Y352	Y353	L354	G355	S356	A357	H358	C361	L362	P363	P364	F365	P366	V369	V372	P373	Q374	Y375	G376	Y377	L378	L380	L381	N382	G383	S384	Q385	A386	V387	G388	R389	S390		
T244	R245	T246	W247	P250	T251	Y252	N253	N254	H255	L256	Y257	K258	Q259	S260	S262	Q263	S264	G265	N268	H271	Y272	F273	G274	Y275	S276	T277	Y281	N285	R286	F287	H288	C289	H290	F291	S292	D295	K296	Q297	R298	L299	I300	W304	G305	F306	R307	P308	F313	K314	N317				
ALA	LYS	LYS	ARG	VAL	VAL	GLU	PRO	ALA	GLY	GLU	GLU	GLU	PRO	VAL	LYS	THR	ALA	LYS	LYS	ARG	GLY	VAL	GLY	GLY	THR	ALA	GLU	ASP	ASN	ASN	GLU	GLY	ALA	GLY	GLN	GLN	PRO	ALA	ASP	ARG	THR	ASP	LYS	LYS	ASN	THR	GLY	GLY	THR	GLY	ASP	ALA	ASP
GLY	LYS	GLU	PRO	VAL	VAL	GLU	GLU	ALA	GLN	PRO	ALA	GLU	GLY	GLY	VAL	GLY	THR	ASN	THR	MET	ALA	GLY	THR	GLY	ALA	PRO	MET	ALA	ASP	ASN	GLY	GLY	ASN	GLY	GLN	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY		



• Molecule 1: Capsid protein VP1

Chain R: 30% 36% 32%

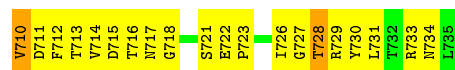


• Molecule 1: Capsid protein VP1

Chain S: 30% 36% 32%

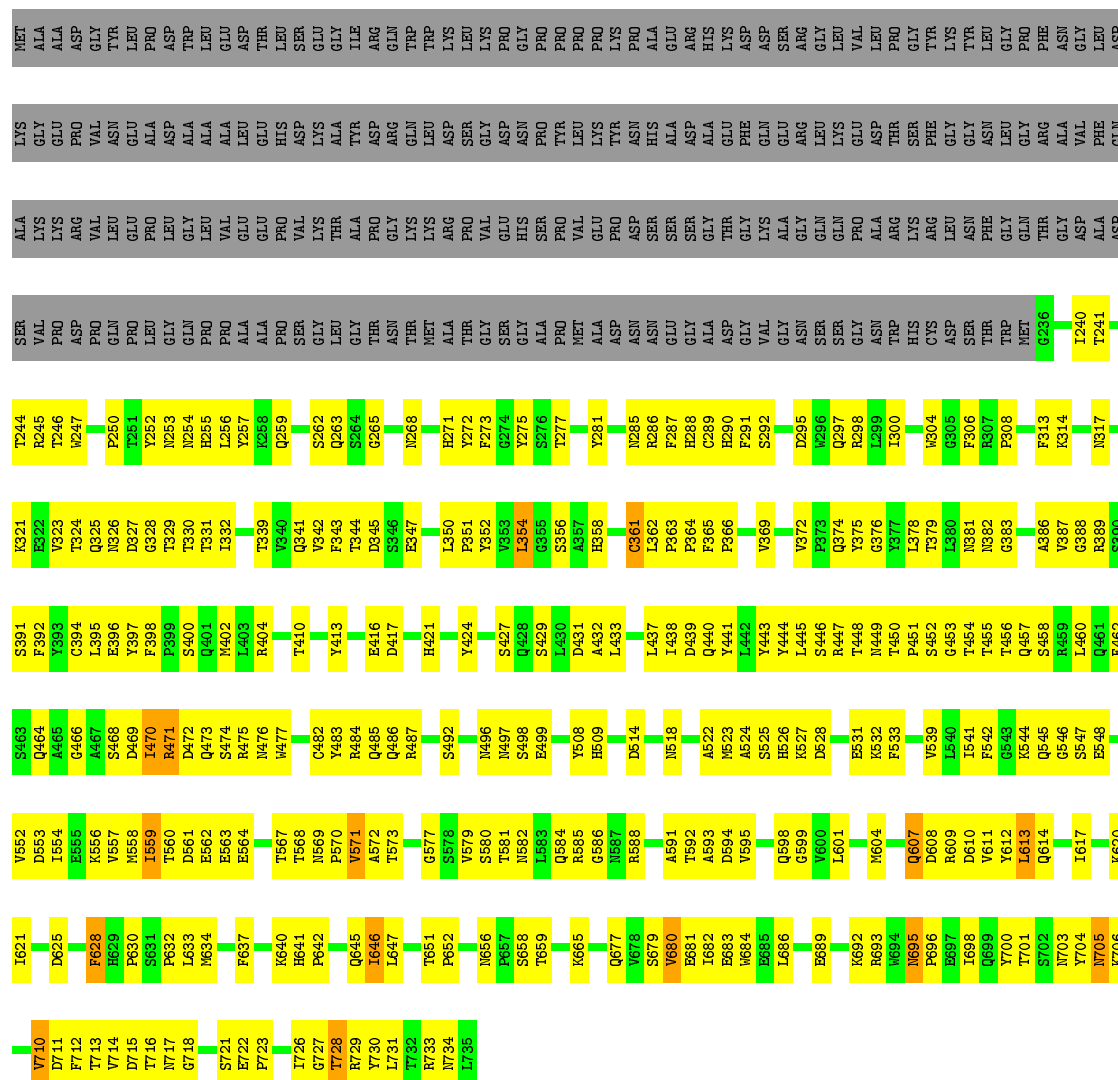
- Molecule 1: Capsid protein VP1





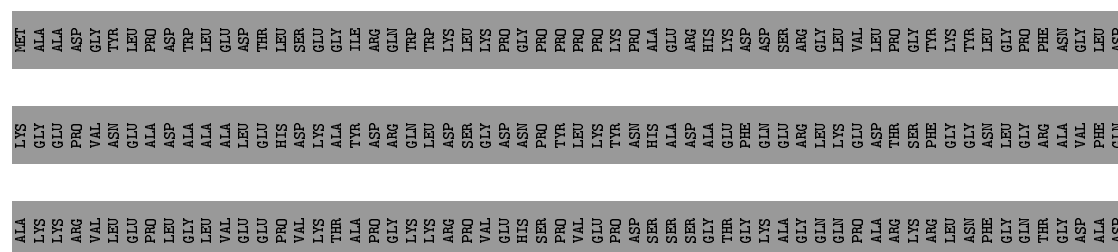
• Molecule 1: Capsid protein VP1

Chain V: 30% 36% 32%



• Molecule 1: Capsid protein VP1

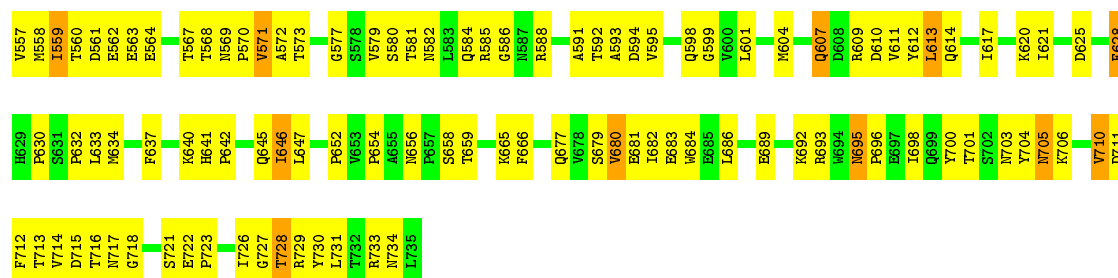
Chain W: 30% 36% 32%



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VAL	R245	Q325	L395	L470	M558	P630	N717	M558	P630	N717	VAL	R245	Q325	L395	L470	M558	P630	N717	M558	P630	N717	VAL	R245	Q325	L395	L470	M558	P630	N717	M558	P630	N717
PRO	T246	R326	E396	R471	T559	S631	G718	T559	S631	G718	PRO	T246	R326	E396	R471	T559	S631	G718	T559	S631	G718	PRO	T246	R326	E396	R471	T559	S631	G718	T559	S631	G718
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GLN	P250	F328	F398	Q473	E562	N634	E722	E562	N634	E722	GLN	P250	F328	F398	Q473	E562	N634	E722	E562	N634	E722	GLN	P250	F328	F398	Q473	E562	N634	E722	E562	N634	E722
PRO	T251	T329	S400	S474	E563	P637	P723	E563	P637	P723	PRO	T251	T329	S400	S474	E563	P637	P723	E563	P637	P723	PRO	T251	T329	S400	S474	E563	P637	P723	E563	P637	P723
LEU	Y252	T331	Q401	R475	E564	T726	T735	E564	T726	T735	LEU	Y252	T331	Q401	R475	E564	T726	T735	E564	T726	T735	LEU	Y252	T331	Q401	R475	E564	T726	T735	E564	T726	T735
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ALA	Q259	F343	T410	R483	P570	P642	Y730	P570	P642	Y730	ALA	Q259	F343	T410	R483	P570	P642	Y730	P570	P642	Y730	ALA	Q259	F343	T410	R483	P570	P642	Y730	P570	P642	Y730
ALA	Q259	F343	T410	R483	P570	P642	Y730	P570	P642	Y730	ALA	Q259	F343	T410	R483	P570	P642	Y730	P570	P642	Y730	ALA	Q259	F343	T410	R483	P570	P642	Y730	P570	P642	Y730
PRO	S262	D345	Y413	Q485	A572	Q645	T732	Q485	A572	Q645	PRO	S262	D345	Y413	Q485	A572	Q645	T732	Q485	A572	Q645	PRO	S262	D345	Y413	Q485	A572	Q645	T732	Q485	A572	Q645
SER	Q263	D345	Y413	Q485	A572	Q645	T732	Q485	A572	Q645	SER	Q263	D345	Y413	Q485	A572	Q645	T732	Q485	A572	Q645	SER	Q263	D345	Y413	Q485	A572	Q645	T732	Q485	A572	Q645
GLY	S264	E347	D416	R487	G577	T651	N734	R487	G577	T651	GLY	S264	E347	D416	R487	G577	T651	N734	R487	G577	T651	GLY	S264	E347	D416	R487	G577	T651	N734	R487	G577	T651
LEU	G265	L350	H421	S492	S578	P652	L735	S492	S578	P652	LEU	G265	L350	H421	S492	S578	P652	L735	S492	S578	P652	LEU	G265	L350	H421	S492	S578	P652	L735	S492	S578	P652
GLY		P351	Y424		V579	N656		Y424	V579	N656	GLY		P351	Y424		V579	N656		Y424	V579	N656	GLY		P351	Y424		V579	N656		Y424	V579	N656
THR	N268	Y352	M496	S498	T581	P657		M496	T581	P657	THR	N268	Y352	M496	S498	T581	P657		M496	T581	P657	THR	N268	Y352	M496	S498	T581	P657		M496	T581	P657
ASN	H271	V353	M497	S498	N582	S658		M497	N582	S658	ASN	H271	V353	M497	S498	N582	S658		M497	N582	S658	ASN	H271	V353	M497	S498	N582	S658		M497	N582	S658
THR	Y272	L354	E499	E499	L583	T659		E499	L583	T659	THR	Y272	L354	E499	E499	L583	T659		E499	L583	T659	THR	Y272	L354	E499	E499	L583	T659		E499	L583	T659
ALA	F273	G355			G584				G584		ALA	F273	G355			G584				G584		ALA	F273	G355			G584				G584	
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SER	Y275	L357	D431	H509	G586	V678		D431	G586	V678	SER	Y275	L357	D431	H509	G586	V678		D431	G586	V678	SER	Y275	L357	D431	H509	G586	V678		D431	G586	V678
GLY	S276	H358			N587	V680			N587	V680	GLY	S276	H358			N587	V680			N587	V680	GLY	S276	H358			N587	V680			N587	V680
ALA	T277	C361	L433	D514	R588			L433	R588		ALA	T277	C361	L433	D514	R588			L433	R588		ALA	T277	C361	L433	D514	R588			L433	R588	
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MET		L362			T592	E682			T592	E682	MET		L362			T592	E682			T592	E682	MET		L362			T592	E682			T592	E682
ALA		P363			A593	E683			A593	E683	ALA		P363			A593	E683			A593	E683	ALA		P363			A593	E683			A593	E683
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GLU	F287	P366			N523	N684			N523	N684	GLU	F287	P366			N523	N684			N523	N684	GLU	F287	P366			N523	N684			N523	N684
THR	H288	P366			N523	N684			N523	N684	THR	H288	P366			N523	N684			N523	N684	THR	H288	P366			N523	N684			N523	N684
GLY	C289	D367			S525	E689			S525	E689	GLY	C289	D367			S525	E689			S525	E689	GLY	C289	D367			S525	E689			S525	E689
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SER	Q297	G376			D608	L698			D608	L698	SER	Q297	G376			D608	L698			D608	L698	SER	Q297	G376			D608	L698			D608	L698
GLY	L299	T377			R609	Q699			R609	Q699	GLY	L299	T377			R609	Q699			R609	Q699	GLY	L299	T377			R609	Q699			R609	Q699
ASN	I300	T379			D610	Y700			D610	Y700	ASN	I300	T379			D610	Y700			D610	Y700	ASN	I300	T379			D610	Y700			D610	Y700
TRP		G453			V611	T701			V611	T701	TRP		G453			V611	T701			V611	T701	TRP		G453			V611	T701			V611	T701
HIS	W304	N381			Y612	S702			Y612	S702	HIS	W304	N381			Y612	S702			Y612	S702	HIS	W304	N381			Y612	S702			Y612	S702
CYS	G305	N382			L613	N703			L613	N703	CYS	G305	N382			L613	N703			L613	N703	CYS	G305	N382			L613	N703			L613	N703
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SER	R307	A386			I617	N705			I617	N705	SER	R307	A386			I617	N705			I617	N705	SER	R307	A386			I617	N705			I617	N705
THR	P308	V387			K620	V710			K620	V710	THR	P308	V387			K620	V710			K620	V710	THR	P308	V387			K620	V710			K620	V710
MET	F313	R389			I621	D711			I621	D711	MET	F313	R389			I621	D711			I621	D711	MET	F313	R389			I621	D711			I621	D711
THR	K314	S390			D625	F712			D625	F712	THR	K314	S390			D625	F712			D625	F712	THR	K314	S390			D625	F712			D625	F712
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		F392			Q464	T713			Q464	T713			F392			Q464	T713			Q464	T713			F392			Q464	T713			Q464	T713
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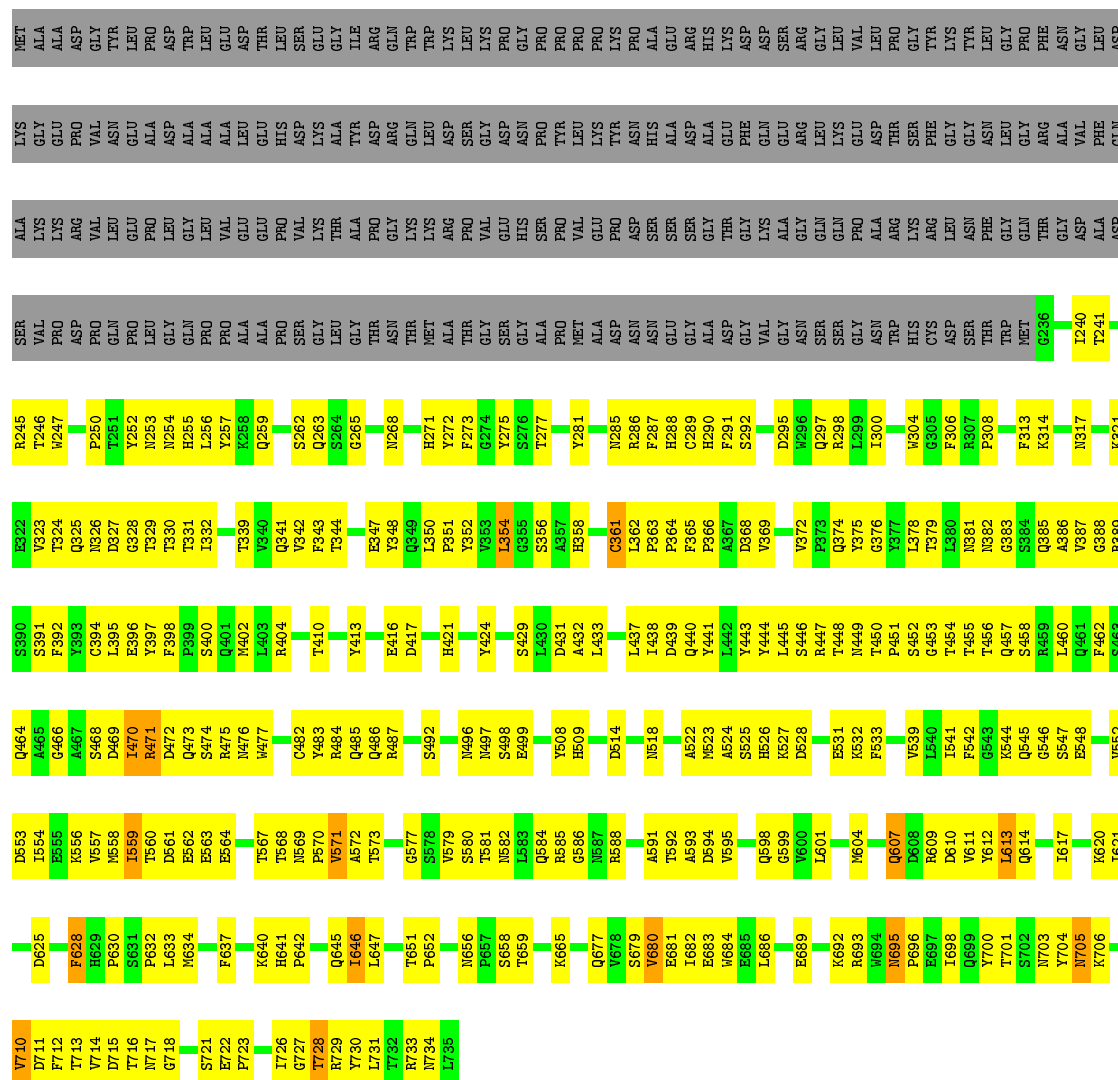
• Molecule 1: Capsid protein VP1





• Molecule 1: Capsid protein VP1

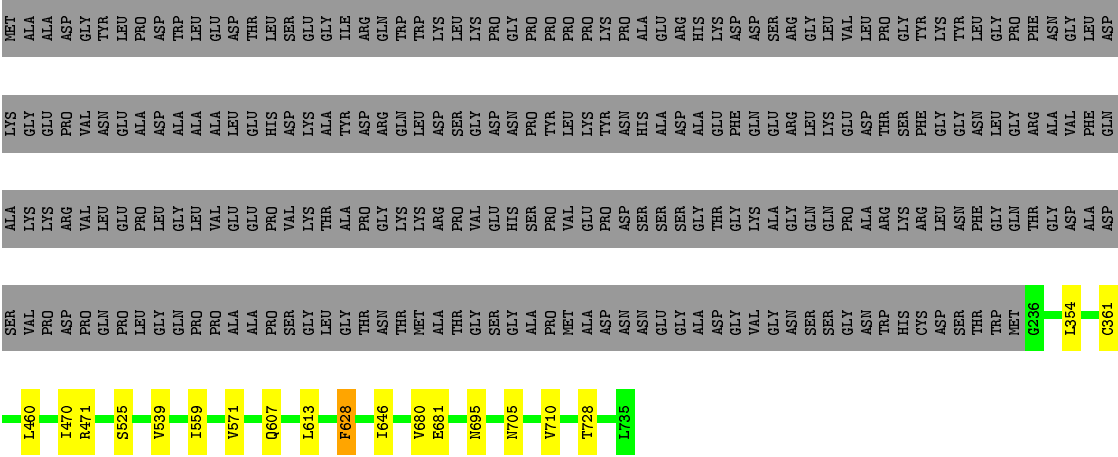
Chain Y: 30% 36% 32%



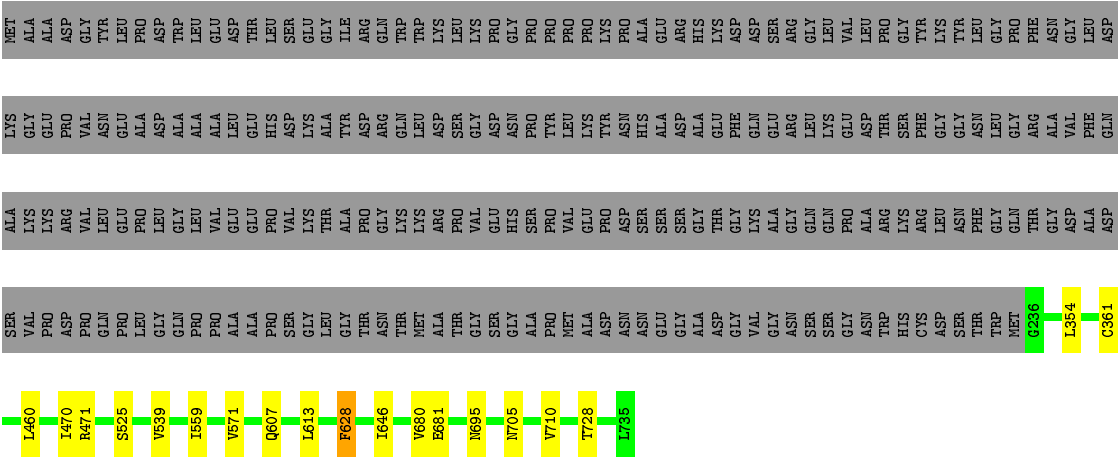
• Molecule 1: Capsid protein VP1

Chain Z: 30% 36% 32%

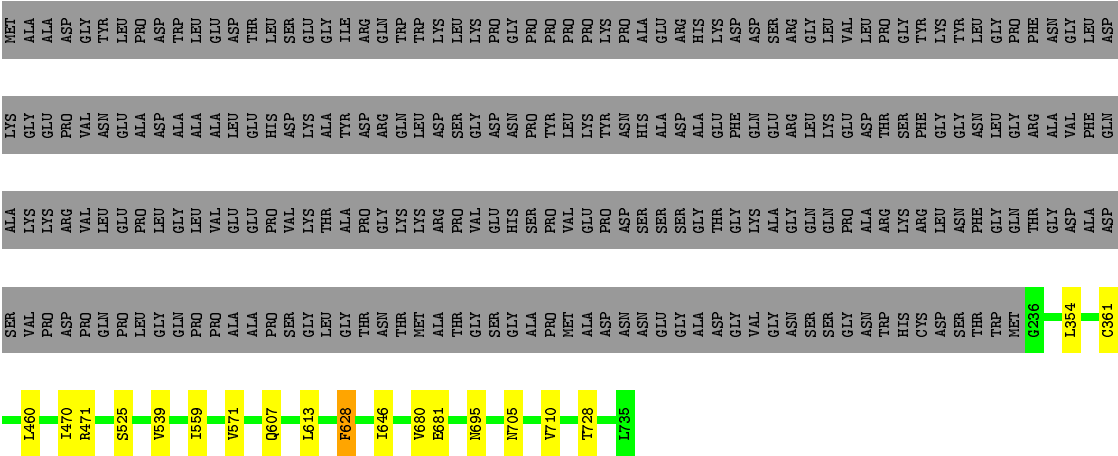




● Molecule 1: Capsid protein VP1

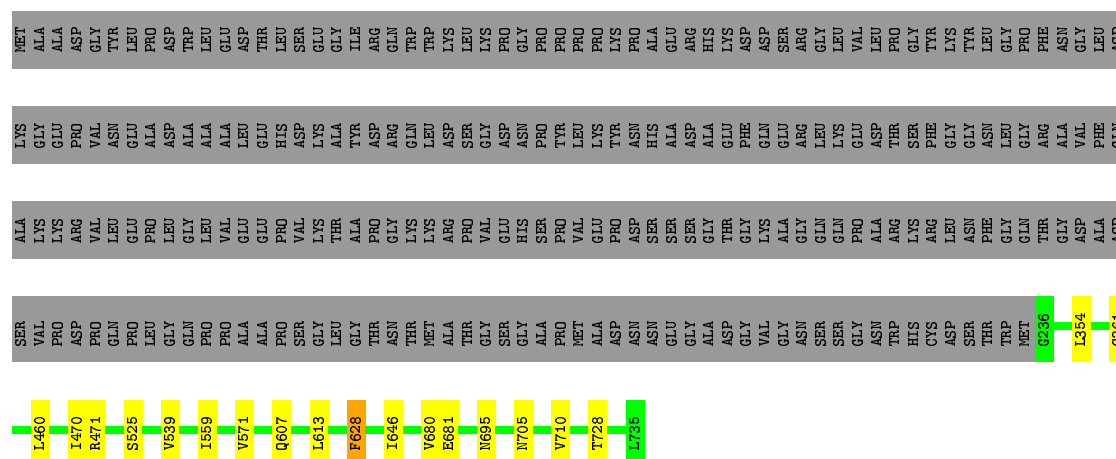


● Molecule 1: Capsid protein VP1



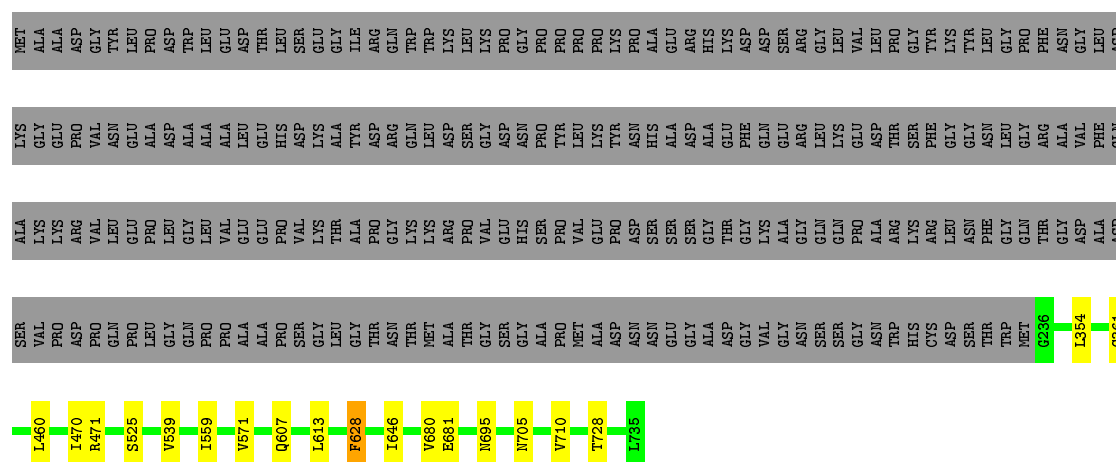
● Molecule 1: Capsid protein VP1

Chain e:



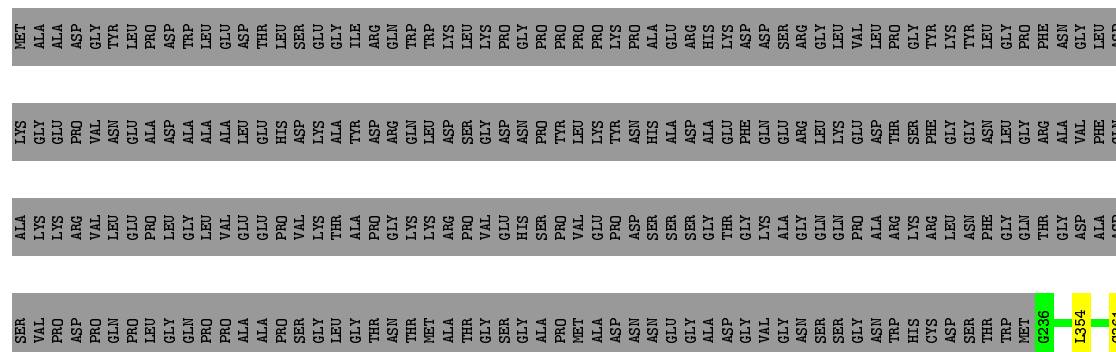
- Molecule 1: Capsid protein VP1

Chain f:



- Molecule 1: Capsid protein VP1

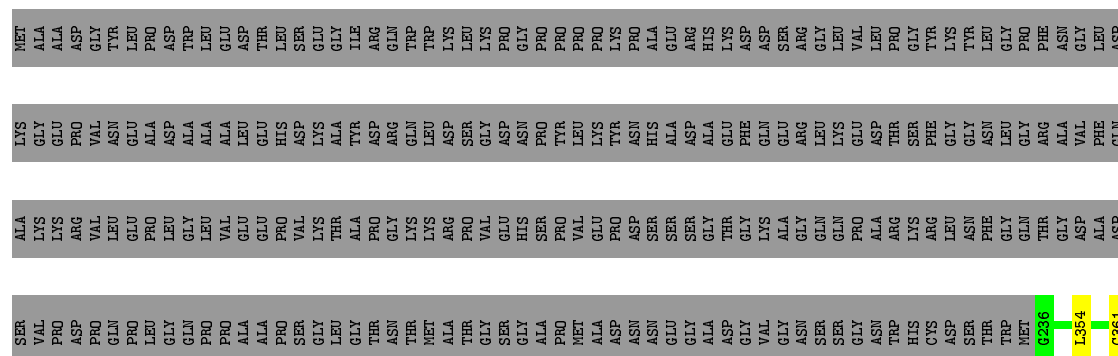
Chain g:





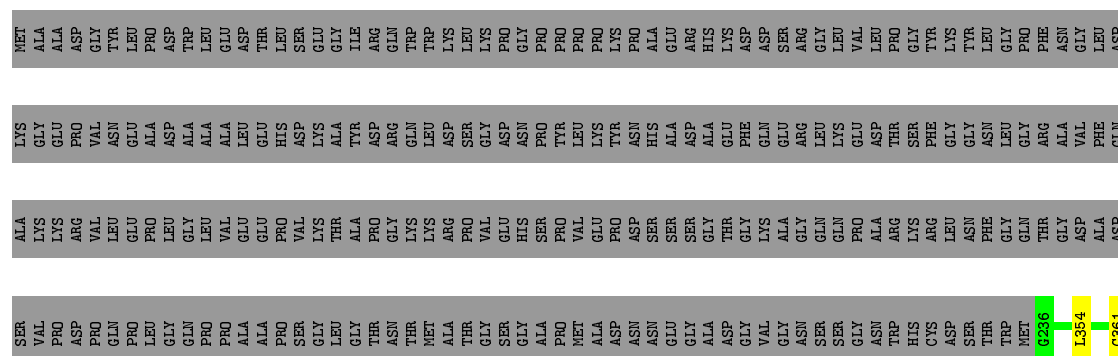
- Molecule 1: Capsid protein VP1

Chain h: 65% . 32%



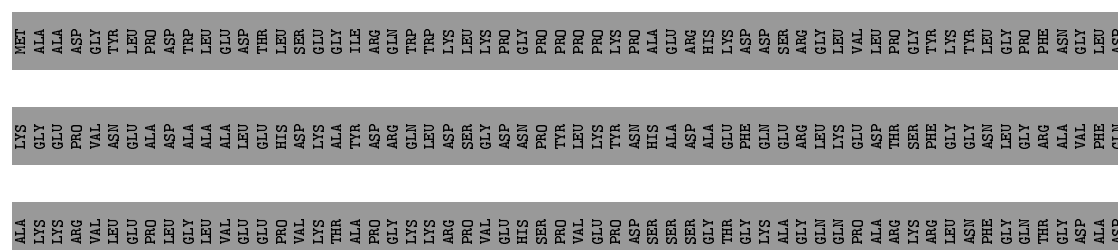
- Molecule 1: Capsid protein VP1

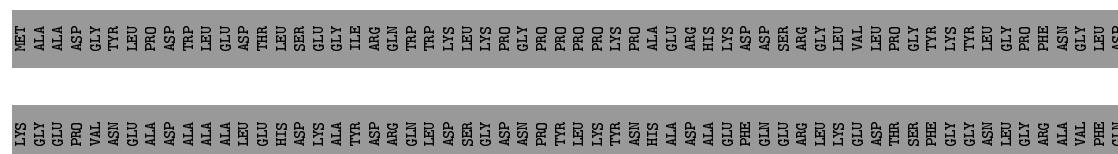
Chain i:  65% • 32%

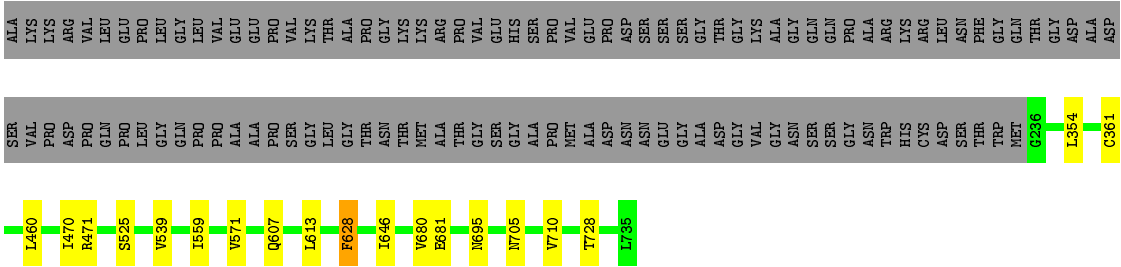


- Molecule 1: Capsid protein VP1

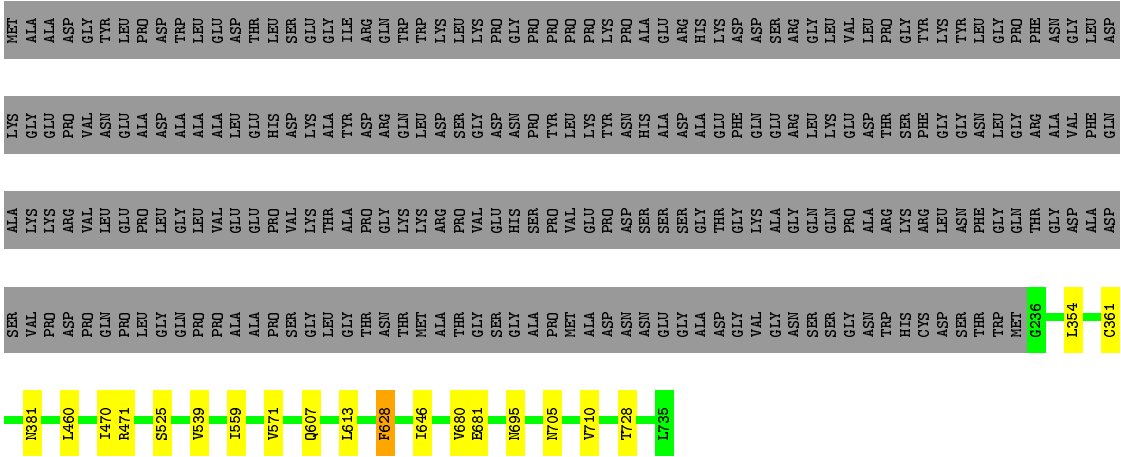
Chain j: 65% . 32%



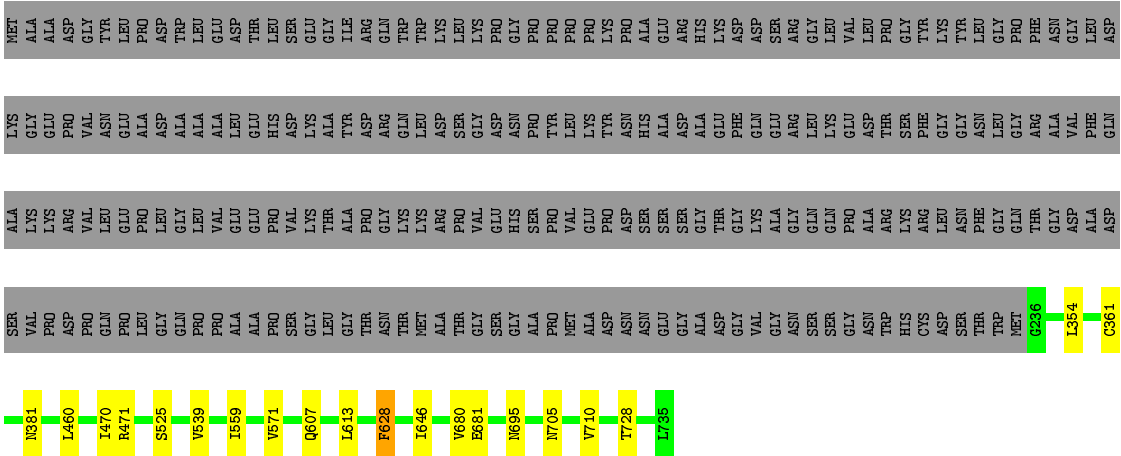




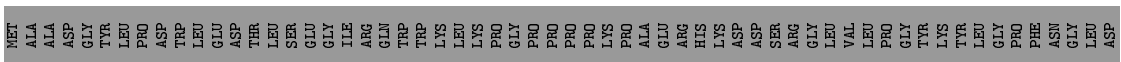
• Molecule 1: Capsid protein VP1

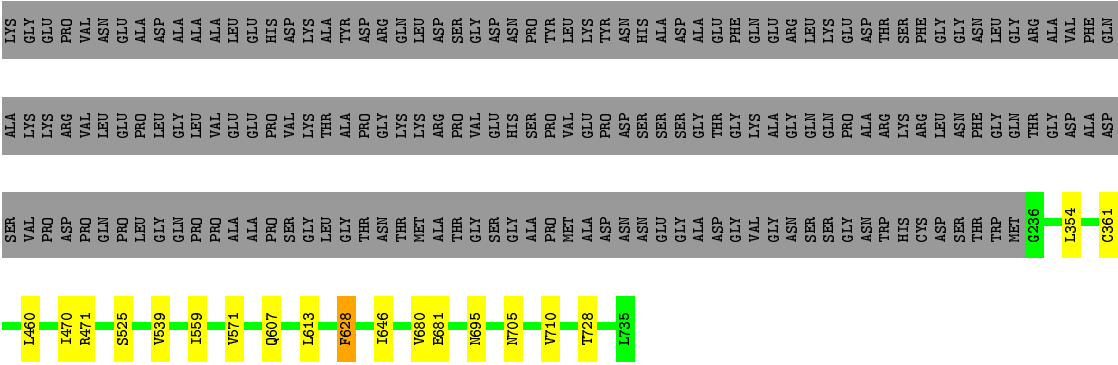


• Molecule 1: Capsid protein VP1

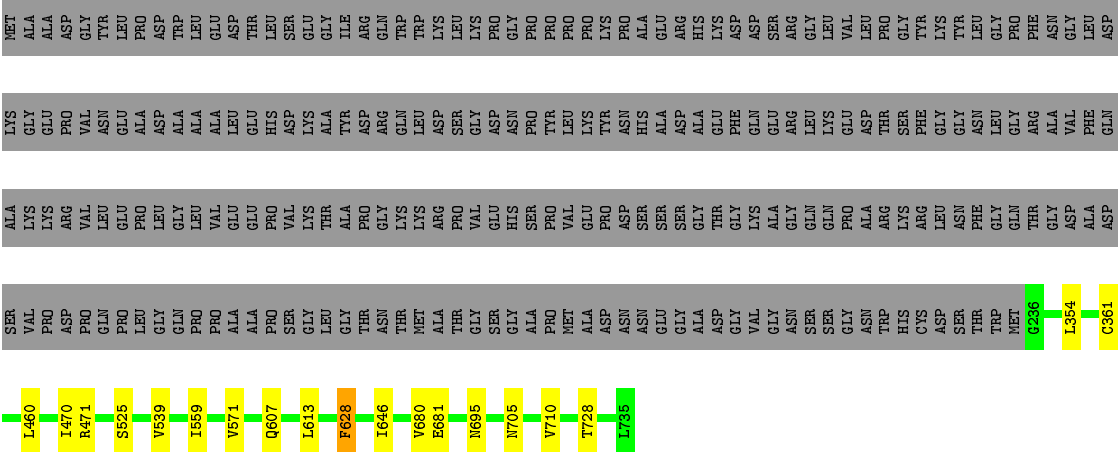


• Molecule 1: Capsid protein VP1

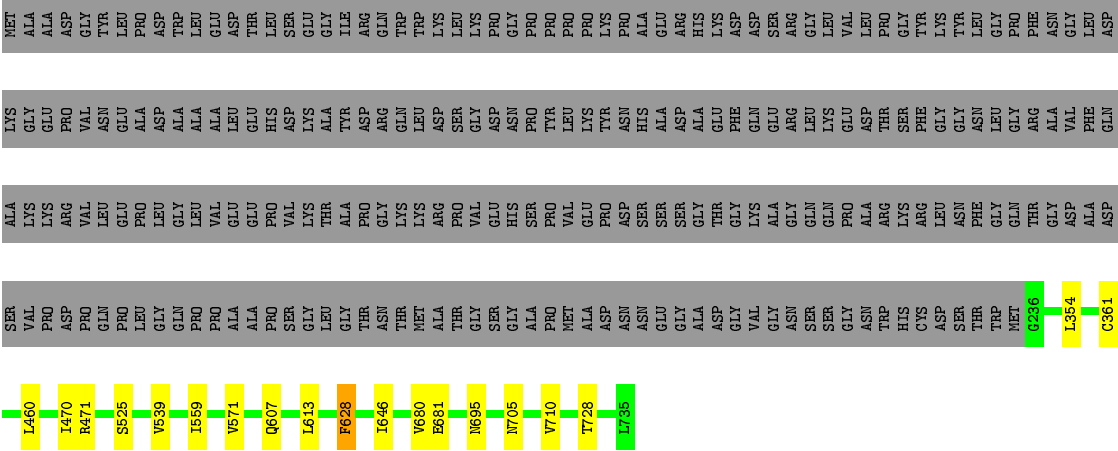




• Molecule 1: Capsid protein VP1

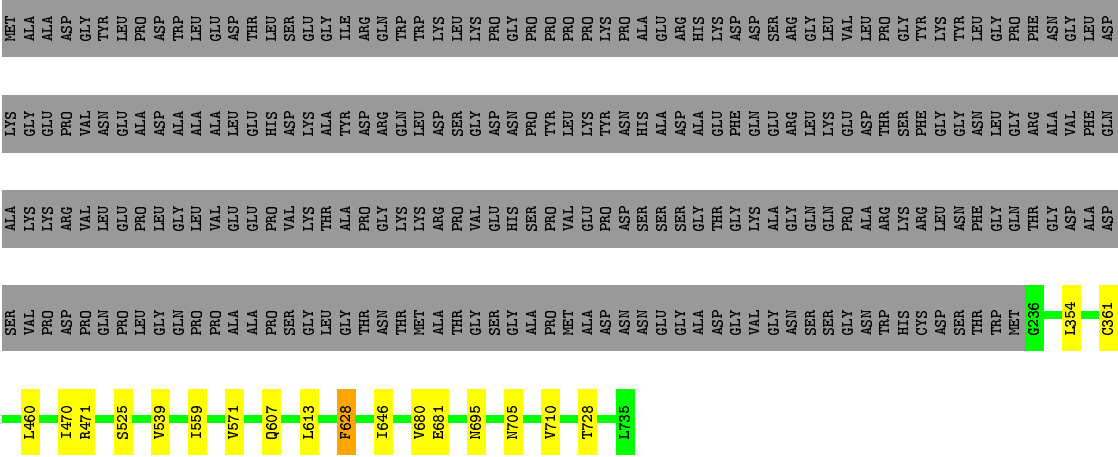


• Molecule 1: Capsid protein VP1

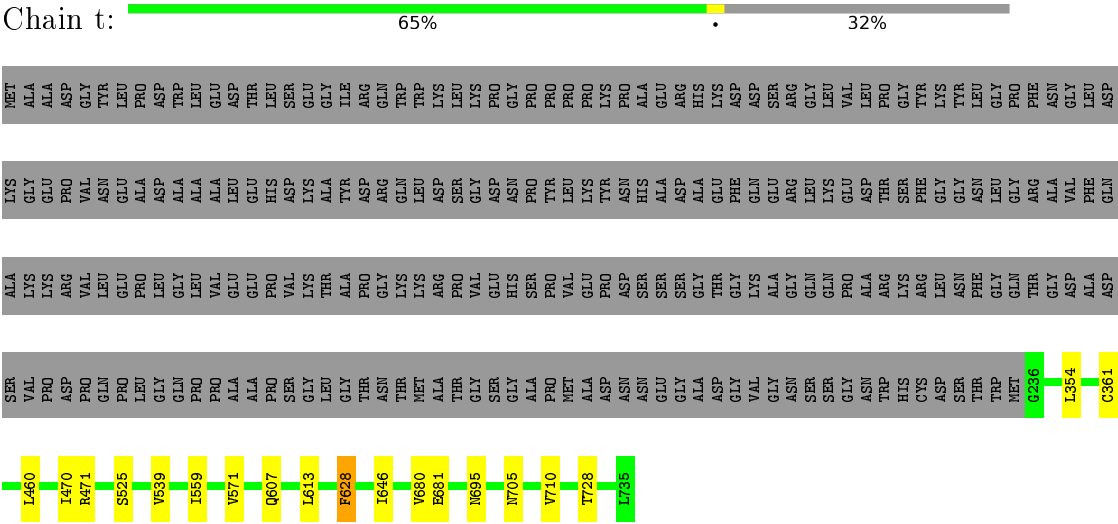


• Molecule 1: Capsid protein VP1

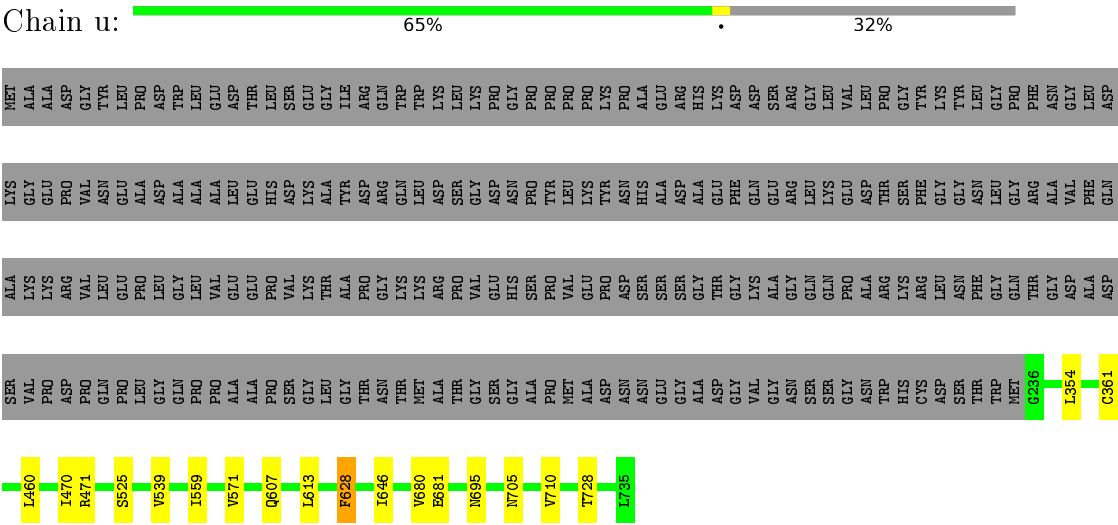




● Molecule 1: Capsid protein VP1



● Molecule 1: Capsid protein VP1

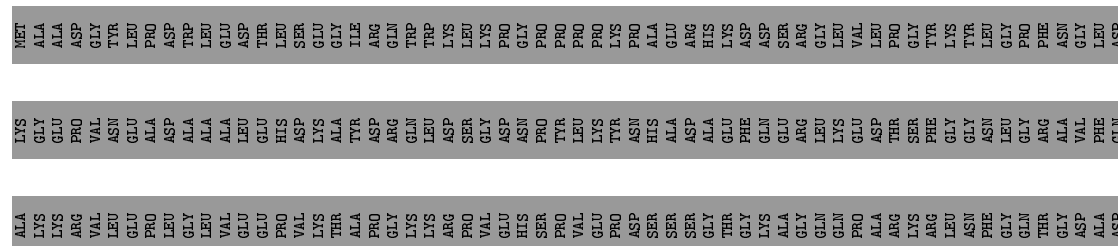


● Molecule 1: Capsid protein VP1

- Molecule 1: Capsid protein VP1

- Molecule 1: Capsid protein VP1

[illegible]



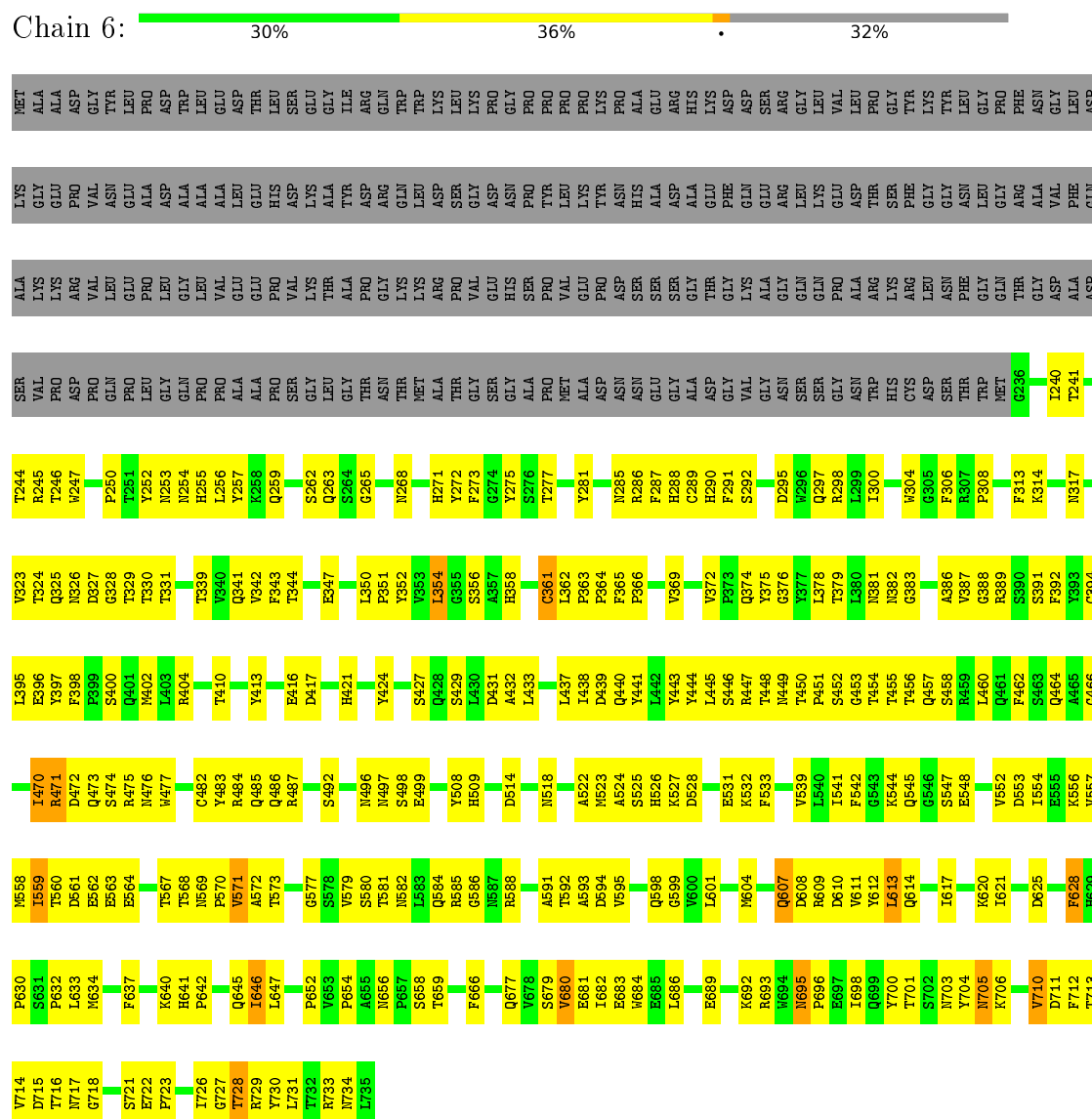
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PRO	T246	T325	L395	M558	H629	D715	PRO	T246	T325	L395	M558	H629	D715	PRO
ASP	W247	Q325	E396	I559	S631	N716	ASP	W247	Q325	E396	I559	S631	N716	ASP
PRO		N326	Y397	T560	R471	N717	PRO		N326	Y397	T560	R471	N717	PRO
GLN	P250	N327	F398	D561	D472	G718	GLN	P250	N327	F398	D561	D472	G718	GLN
PRO	T251	Q328	P399	E562	N634		PRO	T251	Q328	P399	E562	N634		PRO
LEU	Y252	T329	S400	E563	P637	S721	LEU	Y252	T329	S400	E563	P637	S721	LEU
GLY	N253	T330	Q401	E564		E722	GLY	N253	T330	Q401	E564		E722	GLY
GLN	N254	T331	M402		P723	P723	GLN	N254	T331	M402		P723	P723	GLN
PRO	H255	T339	R404	T567	K640	I726	PRO	H255	T339	R404	T567	K640	I726	PRO
ALA	Y257	T340		T568	H641	G727	ALA	Y257	T340		T568	H641	G727	ALA
ALA	K258	Q341	Y483	N569	P642	T728	ALA	K258	Q341	Y483	N569	P642	T728	ALA
PRO	Q259	V342	R484	P570			PRO	Q259	V342	R484	P570			PRO
SER	I260	F343	Y413	V571	Q645	R729	SER	I260	F343	Y413	V571	Q645	R729	SER
GLY	S261	T344		A572	I646	Y730	GLY	S261	T344		A572	I646	Y730	GLY
LEU	S262		E416	T573	L647	L731	LEU	S262		E416	T573	L647	L731	LEU
GLY	Q263	E347	D417	G577	P652	T732	GLY	Q263	E347	D417	G577	P652	T732	GLY
THR	S264			S578	V653	R733	THR	S264			S578	V653	R733	THR
ASN	G265	L350	H421	S579	P654	N734	ASN	G265	L350	H421	S579	P654	N734	ASN
THR	N268	P351		S580	N656	I735	THR	N268	P351		S580	N656	I735	THR
ALA	H271	V352	Y424	T581			ALA	H271	V352	Y424	T581			ALA
GLY	Y272	V353		N582	T659		GLY	Y272	V353		N582	T659		GLY
SER	G274	G355	S427	Q584			SER	G274	G355	S427	Q584			SER
ALA	Y275	S356	Q428	R585	P666		ALA	Y275	S356	Q428	R585	P666		ALA
PRO	S276	R358	S429	G586			PRO	S276	R358	S429	G586			PRO
MET	T277		D431	N587	Q677		MET	T277		D431	N587	Q677		MET
ASP	Y281	G361	A432	R588	S679		ASP	Y281	G361	A432	R588	S679		ASP
ASN	N285	L362	L433	A591	V680		ASN	N285	L362	L433	A591	V680		ASN
GLU	R286	P363	L437	T592			GLU	R286	P363	L437	T592			GLU
GLY	F287	F364	I438	A593	P681		GLY	F287	F364	I438	A593	P681		GLY
ALA	H288	P366	D439	N623	B682		ALA	H288	P366	D439	N623	B682		ALA
ASP	H289		Q440	D594	E683		ASP	H289		Q440	D594	E683		ASP
VAL	F291	D368	Y441	V595	N684		VAL	F291	D368	Y441	V595	N684		VAL
GLY	S292	V369	L442	Q598	L686		GLY	S292	V369	L442	Q598	L686		GLY
ASN	D295		Y443	G599			ASN	D295		Y443	G599			ASN
SER	N296	V372	L445	V600	B689		SER	N296	V372	L445	V600	B689		SER
GLY	Q297	Q374	S446	L601	K692		GLY	Q297	Q374	S446	L601	K692		GLY
ASN	D298	V375	R447	M604	B693		ASN	D298	V375	R447	M604	B693		ASN
TRP	L299	G376	T448	Q607	N695		TRP	L299	G376	T448	Q607	N695		TRP
HIS	I300	T377	T450	D608	P696		HIS	I300	T377	T450	D608	P696		HIS
CYS	W304	L378	P451	R609	E697		CYS	W304	L378	P451	R609	E697		CYS
ASP	G305	T379	S452	D610	I698		ASP	G305	T379	S452	D610	I698		ASP
THR	F306	N381	T454	V611	Q699		THR	F306	N381	T454	V611	Q699		THR
MET	R307	G382	T455	L612	Y700		MET	R307	G382	T455	L612	Y700		MET
TRP	P308	G383	T456	Q614	S702		TRP	P308	G383	T456	Q614	S702		TRP
GLY	F313	A386	Q457	I617	Y703		GLY	F313	A386	Q457	I617	Y703		GLY
ASP	K314	R389	N705	K620	N706		ASP	K314	R389	N705	K620	N706		ASP
THR	N317	S391	A462	I621			THR	N317	S391	A462	I621			THR
GLY	T241	F392	Y464	D625			GLY	T241	F392	Y464	D625			GLY
MET	G236	C394	Q466				MET	G236	C394	Q466				MET

• Molecule 1: Capsid protein VP1

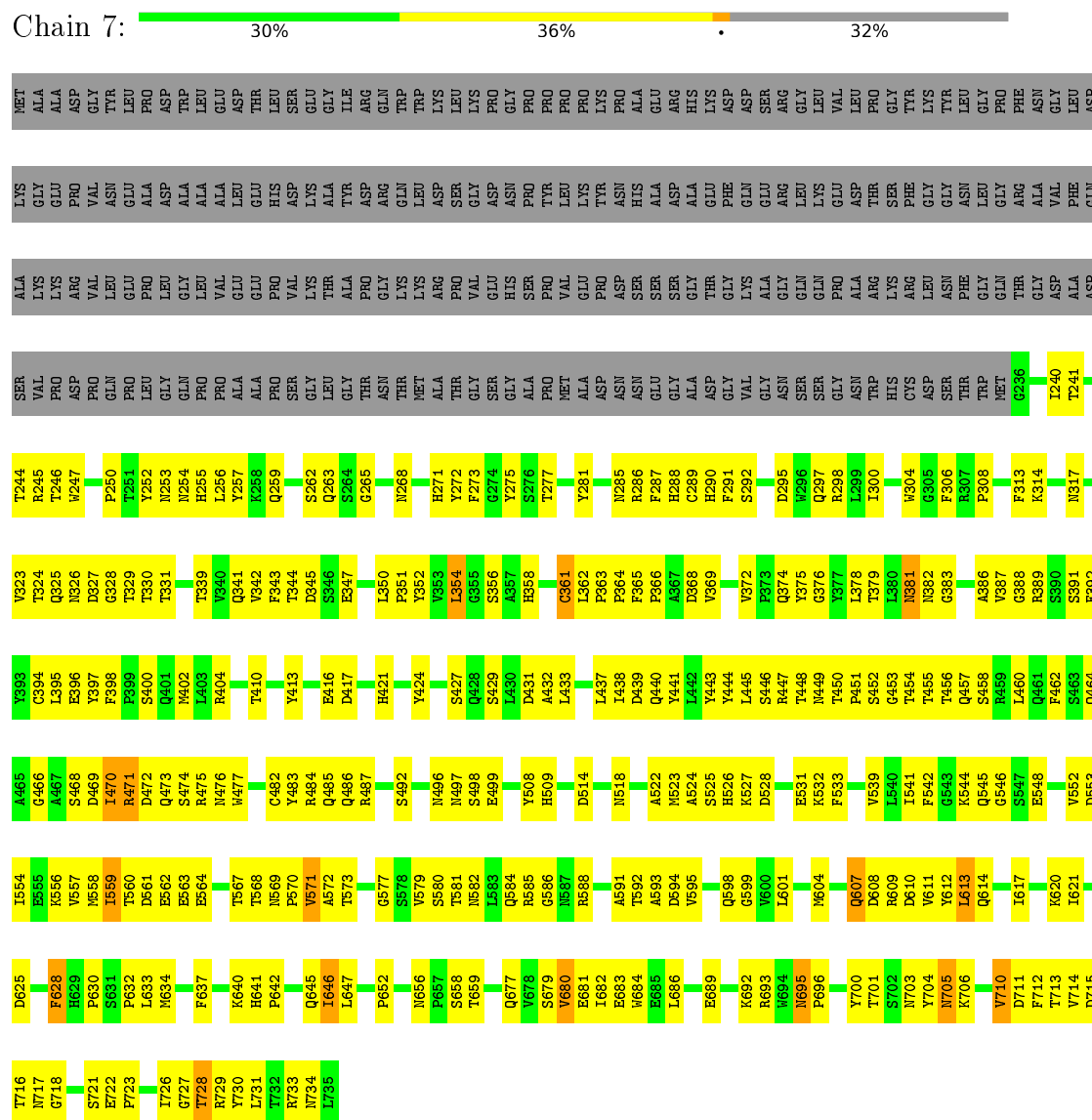
Chain 2:  31% 35% 32%

MET	Y483	T324	L395				MET	Y483	T324	L395				MET
ALA	R484	Q325	E396				ALA	R484	Q325	E396				ALA
GLY	Q485	N326	F397				GLY	Q485	N326	F397				GLY
ASP	Q486	D327	Y398				ASP	Q486	D327	Y398				ASP
GLY	R487	N328	F399				GLY	R487	N328	F399				GLY
VAL		Q329	P399				VAL		Q329	P399				VAL
LEU		T330	S400				LEU		T330	S400				LEU
PRO		T331	Q401				PRO		T331	Q401				PRO
ASP			M402				ASP			M402				ASP
TRP			L403				TRP			L403				TRP
GLY			R404				GLY			R404				GLY
ALA			T410				ALA			T410				ALA
GLU			Y413				GLU			Y413				GLU
THR							THR							THR
LEU			E416				LEU			E416				LEU
GLY			D417				GLY			D417				GLY
THR							THR							THR
ASN			H421				ASN			H421				ASN
GLY			Y424				GLY			Y424				GLY
TRP			S427				TRP			S427				TRP
LYS			Q428				LYS			Q428				LYS
LEU			S429				LEU			S429				LEU
LYS			L430				LYS			L430				LYS
THR			D431				THR			D431				THR
GLY			A432				GLY			A432				GLY
PRO			L433				PRO			L433				PRO
MET							MET							MET
ALA			L437				ALA			L437				ALA
ASP			I438				ASP			I438				ASP
ASN			D439				ASN			D439				ASN
GLY			S525				GLY			S525				GLY
GLU			H526				GLU			H526				GLU
ARG			K527				ARG			K527				ARG
HIS			D528				HIS			D528				HIS
LYS							LYS							LYS
ASP			E531				ASP			E531				ASP
GLY			K532				GLY			K532				GLY
VAL			F533				VAL			F533				VAL
ASN			V539				ASN			V539				ASN
GLY			I540				GLY			I540				GLY
SER			I541				SER			I541				SER
GLY			P542				GLY			P542				GLY
ASN			G543				ASN			G543				ASN
TRP			K544				TRP			K544				TRP
HIS			Q545				HIS			Q545				HIS
CYS							CYS							CYS
ASP			E548				ASP			E548				ASP
THR			V552				THR			V552				THR
TRP			D553				TRP			D553				TRP
GLY			I554				GLY			I554				GLY
THR			Q461				THR			Q461				THR
TRP			Q462				TRP			Q462				TRP
MET			S463				MET			S463				MET
GLY			V557				GLY			V557				GLY
ASP			M558				ASP			M558				ASP
THR			I559				THR			I559				THR

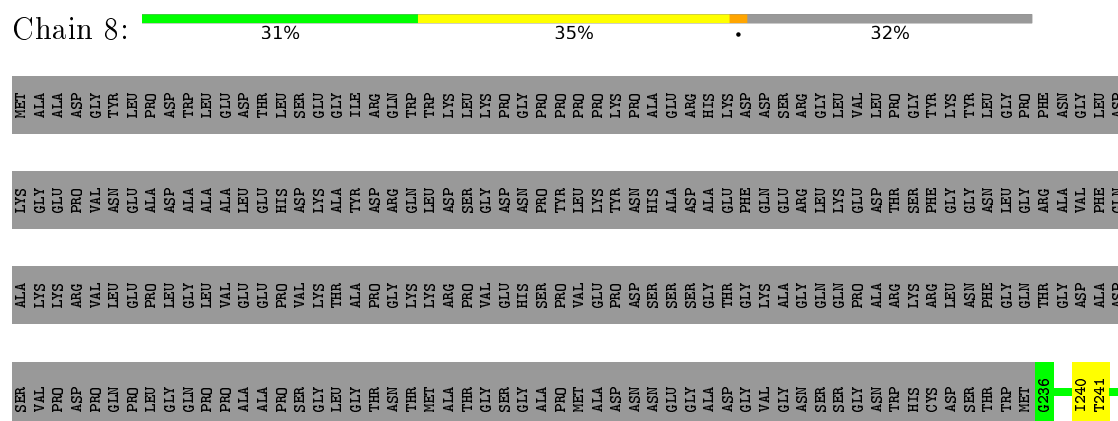




- Molecule 1: Capsid protein VP1



- Molecule 1: Capsid protein VP1






4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	19457	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3200	Depositor
Magnification	59000	Depositor
Image detector	Not provided	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 2$	RMSZ	$\# Z > 2$
1	1	0.57	0/4127	0.68	0/5626
1	2	0.57	0/4127	0.68	0/5626
1	3	0.57	0/4127	0.68	0/5626
1	4	0.57	0/4127	0.68	0/5626
1	5	0.57	0/4127	0.68	0/5626
1	6	0.57	0/4127	0.68	0/5626
1	7	0.57	0/4127	0.68	0/5626
1	8	0.57	0/4127	0.68	0/5626
1	A	0.57	0/4127	0.68	0/5626
1	B	0.57	0/4127	0.68	0/5626
1	C	0.57	0/4127	0.68	0/5626
1	D	0.57	0/4127	0.68	0/5626
1	E	0.57	0/4127	0.68	0/5626
1	F	0.57	0/4127	0.68	0/5626
1	G	0.57	0/4127	0.68	0/5626
1	H	0.57	0/4127	0.68	0/5626
1	I	0.57	0/4127	0.68	0/5626
1	J	0.57	0/4127	0.68	0/5626
1	K	0.57	0/4127	0.68	0/5626
1	L	0.57	0/4127	0.68	0/5626
1	M	0.57	0/4127	0.68	0/5626
1	N	0.57	0/4127	0.68	0/5626
1	O	0.57	0/4127	0.68	0/5626
1	P	0.57	0/4127	0.68	0/5626
1	Q	0.57	0/4127	0.68	0/5626
1	R	0.57	0/4127	0.67	0/5626
1	S	0.57	0/4127	0.68	0/5626
1	T	0.57	0/4127	0.68	0/5626
1	U	0.57	0/4127	0.68	0/5626
1	V	0.57	0/4127	0.68	0/5626
1	W	0.57	0/4127	0.68	0/5626
1	X	0.57	0/4127	0.68	0/5626
1	Y	0.57	0/4127	0.68	0/5626
1	Z	0.57	0/4127	0.68	0/5626

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >2	RMSZ	# Z >2
1	a	0.57	0/4127	0.68	0/5626
1	b	0.57	0/4127	0.68	0/5626
1	c	0.57	0/4127	0.68	0/5626
1	d	0.57	0/4127	0.68	0/5626
1	e	0.57	0/4127	0.68	0/5626
1	f	0.57	0/4127	0.68	0/5626
1	g	0.57	0/4127	0.68	0/5626
1	h	0.57	0/4127	0.68	0/5626
1	i	0.57	0/4127	0.68	0/5626
1	j	0.57	0/4127	0.68	0/5626
1	k	0.57	0/4127	0.68	0/5626
1	l	0.57	0/4127	0.68	0/5626
1	m	0.57	0/4127	0.68	0/5626
1	n	0.57	0/4127	0.68	0/5626
1	o	0.57	0/4127	0.68	0/5626
1	p	0.57	0/4127	0.68	0/5626
1	q	0.57	0/4127	0.68	0/5626
1	r	0.57	0/4127	0.68	0/5626
1	s	0.57	0/4127	0.68	0/5626
1	t	0.57	0/4127	0.68	0/5626
1	u	0.57	0/4127	0.68	0/5626
1	v	0.57	0/4127	0.68	0/5626
1	w	0.57	0/4127	0.68	0/5626
1	x	0.57	0/4127	0.68	0/5626
1	y	0.57	0/4127	0.68	0/5626
1	z	0.57	0/4127	0.68	0/5626
All	All	0.57	0/247620	0.68	0/337560

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

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

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

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

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (314) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	1	354	LEU	Peptide
1	1	607	GLN	Peptide
1	1	628	PHE	Peptide
1	1	705	ASN	Peptide
1	1	728	THR	Peptide
1	2	354	LEU	Peptide
1	2	381	ASN	Peptide
1	2	607	GLN	Peptide
1	2	628	PHE	Peptide
1	2	705	ASN	Peptide
1	2	728	THR	Peptide
1	3	354	LEU	Peptide
1	3	607	GLN	Peptide
1	3	628	PHE	Peptide
1	3	705	ASN	Peptide
1	3	728	THR	Peptide
1	4	354	LEU	Peptide
1	4	381	ASN	Peptide
1	4	607	GLN	Peptide
1	4	628	PHE	Peptide
1	4	705	ASN	Peptide
1	4	728	THR	Peptide
1	5	354	LEU	Peptide

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

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

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

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

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

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

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

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	4009	0	3787	272	0
1	2	4009	0	3787	266	0
1	3	4009	0	3787	267	0
1	4	4009	0	3787	270	0
1	5	4009	0	3787	272	0
1	6	4009	0	3787	268	0
1	7	4009	0	3787	267	0
1	8	4009	0	3787	270	0
1	A	4009	0	3787	340	0
1	B	4009	0	3787	338	0
1	C	4009	0	3787	343	0
1	D	4009	0	3787	345	0
1	E	4009	0	3787	336	0
1	F	4009	0	3787	340	0
1	G	4009	0	3787	343	0
1	H	4009	0	3787	334	0
1	I	4009	0	3787	337	0
1	J	4009	0	3787	341	0
1	K	4009	0	3787	345	0
1	L	4009	0	3787	338	0
1	M	4009	0	3787	342	0
1	N	4009	0	3787	340	0
1	O	4009	0	3787	340	0
1	P	4009	0	3787	340	0
1	Q	4009	0	3787	336	0
1	R	4009	0	3787	311	0
1	S	4009	0	3787	317	0
1	T	4009	0	3787	341	0
1	U	4009	0	3787	341	0
1	V	4009	0	3787	344	0
1	W	4009	0	3787	335	0
1	X	4009	0	3787	334	0
1	Y	4009	0	3787	341	0
1	Z	4009	0	3787	344	0
1	a	4009	0	3787	0	0
1	b	4009	0	3787	0	0
1	c	4009	0	3787	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	d	4009	0	3787	0	0
1	e	4009	0	3787	0	0
1	f	4009	0	3787	0	0
1	g	4009	0	3787	0	0
1	h	4009	0	3787	0	0
1	i	4009	0	3787	0	0
1	j	4009	0	3787	0	0
1	k	4009	0	3787	0	0
1	l	4009	0	3787	0	0
1	m	4009	0	3787	0	0
1	n	4009	0	3787	0	0
1	o	4009	0	3787	0	0
1	p	4009	0	3787	0	0
1	q	4009	0	3787	0	0
1	r	4009	0	3787	0	0
1	s	4009	0	3787	0	0
1	t	4009	0	3787	0	0
1	u	4009	0	3787	0	0
1	v	4009	0	3787	0	0
1	w	4009	0	3787	0	0
1	x	4009	0	3787	0	0
1	y	4009	0	3787	0	0
1	z	4009	0	3787	0	0
All	All	240540	0	227220	9132	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 20.

All (9132) 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:Q:585:ARG:H	1:Q:588:ARG:HB3	1.37	0.90
1:W:585:ARG:H	1:W:588:ARG:HB3	1.37	0.90
1:J:585:ARG:H	1:J:588:ARG:HB3	1.37	0.90
1:C:585:ARG:H	1:C:588:ARG:HB3	1.37	0.90
1:D:585:ARG:H	1:D:588:ARG:HB3	1.36	0.90
1:F:585:ARG:H	1:F:588:ARG:HB3	1.37	0.90
1:I:585:ARG:H	1:I:588:ARG:HB3	1.37	0.90
1:K:585:ARG:H	1:K:588:ARG:HB3	1.37	0.90
1:R:585:ARG:H	1:R:588:ARG:HB3	1.37	0.90
1:X:585:ARG:H	1:X:588:ARG:HB3	1.37	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:585:ARG:H	1:M:588:ARG:HB3	1.37	0.90
1:T:585:ARG:H	1:T:588:ARG:HB3	1.37	0.90
1:2:585:ARG:H	1:2:588:ARG:HB3	1.37	0.90
1:5:585:ARG:H	1:5:588:ARG:HB3	1.37	0.90
1:8:585:ARG:H	1:8:588:ARG:HB3	1.37	0.90
1:N:585:ARG:H	1:N:588:ARG:HB3	1.36	0.90
1:B:585:ARG:H	1:B:588:ARG:HB3	1.37	0.89
1:L:585:ARG:H	1:L:588:ARG:HB3	1.37	0.89
1:P:585:ARG:H	1:P:588:ARG:HB3	1.37	0.89
1:A:585:ARG:H	1:A:588:ARG:HB3	1.37	0.89
1:H:585:ARG:H	1:H:588:ARG:HB3	1.37	0.89
1:S:585:ARG:H	1:S:588:ARG:HB3	1.37	0.89
1:O:585:ARG:H	1:O:588:ARG:HB3	1.37	0.89
1:Y:585:ARG:H	1:Y:588:ARG:HB3	1.37	0.89
1:U:585:ARG:H	1:U:588:ARG:HB3	1.37	0.89
1:Z:585:ARG:H	1:Z:588:ARG:HB3	1.37	0.89
1:V:585:ARG:H	1:V:588:ARG:HB3	1.37	0.89
1:3:585:ARG:H	1:3:588:ARG:HB3	1.37	0.89
1:6:585:ARG:H	1:6:588:ARG:HB3	1.37	0.88
1:G:585:ARG:H	1:G:588:ARG:HB3	1.37	0.88
1:4:585:ARG:H	1:4:588:ARG:HB3	1.37	0.88
1:7:585:ARG:H	1:7:588:ARG:HB3	1.37	0.87
1:E:585:ARG:H	1:E:588:ARG:HB3	1.37	0.87
1:O:472:ASP:O	1:P:518:ASN:ND2	79.84	0.87
1:1:585:ARG:H	1:1:588:ARG:HB3	1.37	0.86
1:B:472:ASP:O	1:J:518:ASN:ND2	2.09	0.86
1:J:472:ASP:O	1:K:518:ASN:ND2	60.05	0.86
1:D:518:ASN:ND2	1:T:472:ASP:O	134.88	0.86
1:F:472:ASP:O	1:H:518:ASN:ND2	138.92	0.86
1:B:472:ASP:O	1:M:518:ASN:ND2	128.02	0.86
1:5:518:ASN:ND2	1:7:472:ASP:O	2.09	0.86
1:A:518:ASN:ND2	1:K:472:ASP:O	128.46	0.86
1:D:472:ASP:O	1:N:518:ASN:ND2	2.09	0.86
1:E:518:ASN:ND2	1:V:472:ASP:O	160.56	0.86
1:E:472:ASP:O	1:Q:518:ASN:ND2	2.09	0.86
1:B:518:ASN:ND2	1:C:472:ASP:O	79.85	0.86
1:B:518:ASN:ND2	1:L:472:ASP:O	2.09	0.86
1:R:472:ASP:O	1:S:518:ASN:ND2	2.09	0.86
1:W:518:ASN:ND2	1:Y:472:ASP:O	42.50	0.86
1:Q:518:ASN:ND2	1:S:472:ASP:O	95.50	0.86
1:6:472:ASP:O	1:7:518:ASN:ND2	2.09	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:472:ASP:O	1:X:518:ASN:ND2	154.44	0.86
1:T:472:ASP:O	1:U:518:ASN:ND2	79.84	0.86
1:G:518:ASN:ND2	1:H:472:ASP:O	60.04	0.85
1:N:472:ASP:O	1:O:518:ASN:ND2	60.04	0.85
1:Z:472:ASP:O	1:4:518:ASN:ND2	2.09	0.85
1:S:472:ASP:O	1:U:518:ASN:ND2	2.09	0.85
1:T:518:ASN:ND2	1:V:472:ASP:O	98.45	0.85
1:W:472:ASP:O	1:X:518:ASN:ND2	60.05	0.85
1:Z:518:ASN:ND2	1:2:472:ASP:O	98.07	0.85
1:Z:518:ASN:ND2	1:3:472:ASP:O	2.09	0.85
1:3:518:ASN:ND2	1:4:472:ASP:O	2.09	0.85
1:I:518:ASN:ND2	1:K:472:ASP:O	98.45	0.85
1:M:518:ASN:ND2	1:O:472:ASP:O	98.44	0.85
1:R:518:ASN:ND2	1:U:472:ASP:O	2.09	0.85
1:U:472:ASP:O	1:V:518:ASN:ND2	60.04	0.85
1:E:518:ASN:ND2	1:F:472:ASP:O	2.09	0.85
1:F:518:ASN:ND2	1:Q:472:ASP:O	2.09	0.85
1:5:472:ASP:O	1:6:518:ASN:ND2	2.09	0.85
1:1:472:ASP:O	1:2:518:ASN:ND2	2.10	0.85
1:H:518:ASN:ND2	1:Y:472:ASP:O	2.09	0.85
1:Q:472:ASP:O	1:R:518:ASN:ND2	60.04	0.85
1:X:472:ASP:O	1:Y:518:ASN:ND2	79.85	0.85
1:D:472:ASP:O	1:L:518:ASN:ND2	138.93	0.84
1:W:472:ASP:O	1:Y:518:ASN:ND2	2.09	0.84
1:G:472:ASP:O	1:I:518:ASN:ND2	2.09	0.84
1:N:472:ASP:O	1:P:518:ASN:ND2	2.09	0.84
1:M:472:ASP:O	1:N:518:ASN:ND2	79.84	0.84
1:V:518:ASN:ND2	1:X:472:ASP:O	2.09	0.84
1:I:472:ASP:O	1:J:518:ASN:ND2	79.83	0.84
1:A:472:ASP:O	1:8:518:ASN:ND2	166.35	0.84
1:J:472:ASP:O	1:L:518:ASN:ND2	2.09	0.84
1:F:518:ASN:ND2	1:G:472:ASP:O	95.50	0.84
1:C:518:ASN:ND2	1:M:472:ASP:O	2.09	0.84
1:A:472:ASP:O	1:G:518:ASN:ND2	2.09	0.84
1:L:472:ASP:O	1:T:518:ASN:ND2	215.23	0.84
1:H:472:ASP:O	1:W:518:ASN:ND2	2.09	0.83
1:C:472:ASP:O	1:O:518:ASN:ND2	154.46	0.83
1:K:518:ASN:ND2	1:8:472:ASP:O	2.09	0.83
1:D:518:ASN:ND2	1:P:472:ASP:O	2.09	0.83
1:Z:472:ASP:O	1:1:518:ASN:ND2	95.45	0.83
1:C:487:ARG:O	1:P:584:GLN:NE2	79.34	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:526:HIS:NE2	1:6:563:GLU:OE2	2.12	0.82
1:Q:526:HIS:NE2	1:Q:563:GLU:OE2	2.12	0.82
1:W:526:HIS:NE2	1:W:563:GLU:OE2	2.12	0.82
1:7:526:HIS:NE2	1:7:563:GLU:OE2	2.12	0.82
1:F:526:HIS:NE2	1:F:563:GLU:OE2	2.13	0.82
1:M:526:HIS:NE2	1:M:563:GLU:OE2	2.13	0.82
1:E:526:HIS:NE2	1:E:563:GLU:OE2	2.12	0.82
1:J:526:HIS:NE2	1:J:563:GLU:OE2	2.13	0.82
1:V:526:HIS:NE2	1:V:563:GLU:OE2	2.12	0.82
1:Y:526:HIS:NE2	1:Y:563:GLU:OE2	2.13	0.82
1:H:526:HIS:NE2	1:H:563:GLU:OE2	2.12	0.82
1:S:526:HIS:NE2	1:S:563:GLU:OE2	2.12	0.82
1:Z:526:HIS:NE2	1:Z:563:GLU:OE2	2.13	0.82
1:X:526:HIS:NE2	1:X:563:GLU:OE2	2.13	0.82
1:D:526:HIS:NE2	1:D:563:GLU:OE2	2.12	0.82
1:K:526:HIS:NE2	1:K:563:GLU:OE2	2.12	0.82
1:2:526:HIS:NE2	1:2:563:GLU:OE2	2.12	0.81
1:G:526:HIS:NE2	1:G:563:GLU:OE2	2.13	0.81
1:I:526:HIS:NE2	1:I:563:GLU:OE2	2.12	0.81
1:L:526:HIS:NE2	1:L:563:GLU:OE2	2.12	0.81
1:R:526:HIS:NE2	1:R:563:GLU:OE2	2.12	0.81
1:A:526:HIS:NE2	1:A:563:GLU:OE2	2.12	0.81
1:4:526:HIS:NE2	1:4:563:GLU:OE2	2.12	0.81
1:N:526:HIS:NE2	1:N:563:GLU:OE2	2.13	0.81
1:O:526:HIS:NE2	1:O:563:GLU:OE2	2.13	0.81
1:3:526:HIS:NE2	1:3:563:GLU:OE2	2.12	0.81
1:Y:416:GLU:HG2	1:Y:417:ASP:H	1.46	0.81
1:1:416:GLU:HG2	1:1:417:ASP:H	1.46	0.81
1:C:416:GLU:HG2	1:C:417:ASP:H	1.46	0.81
1:C:526:HIS:NE2	1:C:563:GLU:OE2	2.12	0.81
1:F:416:GLU:HG2	1:F:417:ASP:H	1.46	0.81
1:J:416:GLU:HG2	1:J:417:ASP:H	1.46	0.81
1:T:526:HIS:NE2	1:T:563:GLU:OE2	2.12	0.81
1:X:416:GLU:HG2	1:X:417:ASP:H	1.46	0.81
1:5:526:HIS:NE2	1:5:563:GLU:OE2	2.12	0.81
1:B:526:HIS:NE2	1:B:563:GLU:OE2	2.12	0.81
1:A:518:ASN:ND2	1:I:472:ASP:O	2.13	0.81
1:P:526:HIS:NE2	1:P:563:GLU:OE2	2.12	0.81
1:T:416:GLU:HG2	1:T:417:ASP:H	1.46	0.81
1:V:416:GLU:HG2	1:V:417:ASP:H	1.46	0.81
1:L:416:GLU:HG2	1:L:417:ASP:H	1.46	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:526:HIS:NE2	1:1:563:GLU:OE2	2.13	0.81
1:G:416:GLU:HG2	1:G:417:ASP:H	1.46	0.81
1:M:416:GLU:HG2	1:M:417:ASP:H	1.46	0.81
1:P:416:GLU:HG2	1:P:417:ASP:H	1.46	0.81
1:U:416:GLU:HG2	1:U:417:ASP:H	1.46	0.81
1:Z:416:GLU:HG2	1:Z:417:ASP:H	1.46	0.81
1:8:526:HIS:NE2	1:8:563:GLU:OE2	2.13	0.80
1:U:526:HIS:NE2	1:U:563:GLU:OE2	2.13	0.80
1:A:416:GLU:HG2	1:A:417:ASP:H	1.46	0.80
1:I:416:GLU:HG2	1:I:417:ASP:H	1.46	0.80
1:N:416:GLU:HG2	1:N:417:ASP:H	1.46	0.80
1:6:416:GLU:HG2	1:6:417:ASP:H	1.46	0.80
1:7:416:GLU:HG2	1:7:417:ASP:H	1.46	0.80
1:E:416:GLU:HG2	1:E:417:ASP:H	1.46	0.80
1:3:416:GLU:HG2	1:3:417:ASP:H	1.46	0.80
1:C:518:ASN:ND2	1:P:472:ASP:O	62.17	0.80
1:2:416:GLU:HG2	1:2:417:ASP:H	1.46	0.79
1:B:416:GLU:HG2	1:B:417:ASP:H	1.46	0.79
1:O:416:GLU:HG2	1:O:417:ASP:H	1.46	0.79
1:4:416:GLU:HG2	1:4:417:ASP:H	1.46	0.79
1:8:416:GLU:HG2	1:8:417:ASP:H	1.46	0.79
1:S:416:GLU:HG2	1:S:417:ASP:H	1.46	0.79
1:D:416:GLU:HG2	1:D:417:ASP:H	1.46	0.79
1:H:416:GLU:HG2	1:H:417:ASP:H	1.46	0.79
1:W:416:GLU:HG2	1:W:417:ASP:H	1.46	0.79
1:K:416:GLU:HG2	1:K:417:ASP:H	1.46	0.79
1:Q:416:GLU:HG2	1:Q:417:ASP:H	1.46	0.79
1:Q:634:MET:HG2	1:S:476:ASN:HB3	83.95	0.79
1:H:262:SER:HB2	1:H:272:TYR:H	1.48	0.79
1:P:262:SER:HB2	1:P:272:TYR:H	1.48	0.79
1:G:262:SER:HB2	1:G:272:TYR:H	1.48	0.79
1:R:416:GLU:HG2	1:R:417:ASP:H	1.46	0.79
1:S:262:SER:HB2	1:S:272:TYR:H	1.48	0.79
1:U:262:SER:HB2	1:U:272:TYR:H	1.48	0.79
1:5:416:GLU:HG2	1:5:417:ASP:H	1.46	0.79
1:V:262:SER:HB2	1:V:272:TYR:H	1.48	0.79
1:J:262:SER:HB2	1:J:272:TYR:H	1.48	0.78
1:J:285:ASN:O	1:J:286:ARG:HG3	1.84	0.78
1:L:262:SER:HB2	1:L:272:TYR:H	1.48	0.78
1:M:285:ASN:O	1:M:286:ARG:HG3	1.84	0.78
1:Q:262:SER:HB2	1:Q:272:TYR:H	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:285:ASN:O	1:V:286:ARG:HG3	1.84	0.78
1:Y:262:SER:HB2	1:Y:272:TYR:H	1.48	0.78
1:6:262:SER:HB2	1:6:272:TYR:H	1.48	0.78
1:F:285:ASN:O	1:F:286:ARG:HG3	1.84	0.78
1:U:285:ASN:O	1:U:286:ARG:HG3	1.84	0.78
1:W:262:SER:HB2	1:W:272:TYR:H	1.48	0.78
1:5:285:ASN:O	1:5:286:ARG:HG3	1.84	0.78
1:C:262:SER:HB2	1:C:272:TYR:H	1.48	0.78
1:G:285:ASN:O	1:G:286:ARG:HG3	1.84	0.78
1:I:285:ASN:O	1:I:286:ARG:HG3	1.84	0.78
1:M:262:SER:HB2	1:M:272:TYR:H	1.48	0.78
1:W:476:ASN:HB3	1:X:634:MET:HG2	57.94	0.78
1:Z:262:SER:HB2	1:Z:272:TYR:H	1.48	0.78
1:B:285:ASN:O	1:B:286:ARG:HG3	1.84	0.78
1:E:285:ASN:O	1:E:286:ARG:HG3	1.84	0.78
1:M:476:ASN:HB3	1:N:634:MET:HG2	75.19	0.78
1:R:262:SER:HB2	1:R:272:TYR:H	1.48	0.78
1:S:285:ASN:O	1:S:286:ARG:HG3	1.84	0.78
1:W:285:ASN:O	1:W:286:ARG:HG3	1.84	0.78
1:X:262:SER:HB2	1:X:272:TYR:H	1.48	0.78
1:6:285:ASN:O	1:6:286:ARG:HG3	1.84	0.78
1:7:285:ASN:O	1:7:286:ARG:HG3	1.84	0.78
1:8:285:ASN:O	1:8:286:ARG:HG3	1.84	0.78
1:B:262:SER:HB2	1:B:272:TYR:H	1.48	0.78
1:F:262:SER:HB2	1:F:272:TYR:H	1.48	0.78
1:P:285:ASN:O	1:P:286:ARG:HG3	1.84	0.78
1:Q:285:ASN:O	1:Q:286:ARG:HG3	1.84	0.78
1:H:285:ASN:O	1:H:286:ARG:HG3	1.84	0.78
1:J:476:ASN:HB3	1:L:634:MET:HG2	1.66	0.78
1:R:476:ASN:HB3	1:S:634:MET:HG2	1.66	0.78
1:E:476:ASN:HB3	1:X:634:MET:HG2	138.47	0.78
1:A:476:ASN:HB3	1:8:634:MET:HG2	149.68	0.78
1:A:262:SER:HB2	1:A:272:TYR:H	1.48	0.78
1:C:285:ASN:O	1:C:286:ARG:HG3	1.84	0.78
1:D:634:MET:HG2	1:P:476:ASN:HB3	1.66	0.78
1:E:262:SER:HB2	1:E:272:TYR:H	1.48	0.78
1:K:262:SER:HB2	1:K:272:TYR:H	1.48	0.78
1:C:634:MET:HG2	1:M:476:ASN:HB3	1.66	0.78
1:N:262:SER:HB2	1:N:272:TYR:H	1.48	0.78
1:U:476:ASN:HB3	1:V:634:MET:HG2	57.94	0.78
1:T:634:MET:HG2	1:V:476:ASN:HB3	95.10	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:476:ASN:HB3	1:W:634:MET:HG2	1.66	0.78
1:Z:476:ASN:HB3	1:4:634:MET:HG2	1.66	0.78
1:5:262:SER:HB2	1:5:272:TYR:H	1.48	0.78
1:K:634:MET:HG2	1:8:476:ASN:HB3	1.66	0.78
1:N:476:ASN:HB3	1:P:634:MET:HG2	1.66	0.78
1:T:476:ASN:HB3	1:U:634:MET:HG2	75.19	0.78
1:K:285:ASN:O	1:K:286:ARG:HG3	1.84	0.78
1:R:634:MET:HG2	1:U:476:ASN:HB3	1.66	0.78
1:S:476:ASN:HB3	1:U:634:MET:HG2	1.66	0.78
1:T:285:ASN:O	1:T:286:ARG:HG3	1.84	0.78
1:1:476:ASN:HB3	1:2:634:MET:HG2	1.66	0.78
1:4:262:SER:HB2	1:4:272:TYR:H	1.48	0.78
1:D:262:SER:HB2	1:D:272:TYR:H	1.48	0.78
1:A:476:ASN:HB3	1:G:634:MET:HG2	1.66	0.78
1:I:476:ASN:HB3	1:J:634:MET:HG2	75.18	0.78
1:T:262:SER:HB2	1:T:272:TYR:H	1.48	0.78
1:Z:634:MET:HG2	1:3:476:ASN:HB3	1.66	0.78
1:O:443:TYR:HB2	1:P:541:ILE:HG21	97.21	0.77
1:R:285:ASN:O	1:R:286:ARG:HG3	1.84	0.77
1:Y:285:ASN:O	1:Y:286:ARG:HG3	1.84	0.77
1:1:285:ASN:O	1:1:286:ARG:HG3	1.84	0.77
1:4:285:ASN:O	1:4:286:ARG:HG3	1.84	0.77
1:A:285:ASN:O	1:A:286:ARG:HG3	1.84	0.77
1:1:262:SER:HB2	1:1:272:TYR:H	1.48	0.77
1:B:634:MET:HG2	1:C:476:ASN:HB3	75.19	0.77
1:L:285:ASN:O	1:L:286:ARG:HG3	1.83	0.77
1:N:476:ASN:HB3	1:O:634:MET:HG2	57.94	0.77
1:O:285:ASN:O	1:O:286:ARG:HG3	1.84	0.77
1:M:634:MET:HG2	1:O:476:ASN:HB3	95.09	0.77
1:Z:285:ASN:O	1:Z:286:ARG:HG3	1.84	0.77
1:3:285:ASN:O	1:3:286:ARG:HG3	1.84	0.77
1:5:634:MET:HG2	1:7:476:ASN:HB3	1.66	0.77
1:F:634:MET:HG2	1:G:476:ASN:HB3	83.96	0.77
1:I:634:MET:HG2	1:K:476:ASN:HB3	95.10	0.77
1:N:285:ASN:O	1:N:286:ARG:HG3	1.84	0.77
1:Q:476:ASN:HB3	1:R:634:MET:HG2	57.94	0.77
1:W:476:ASN:HB3	1:Y:634:MET:HG2	1.66	0.77
1:B:634:MET:HG2	1:L:476:ASN:HB3	1.66	0.77
1:D:285:ASN:O	1:D:286:ARG:HG3	1.84	0.77
1:E:634:MET:HG2	1:V:476:ASN:HB3	146.55	0.77
1:I:262:SER:HB2	1:I:272:TYR:H	1.48	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:634:MET:HG2	1:T:476:ASN:HB3	125.97	0.77
1:H:634:MET:HG2	1:Y:476:ASN:HB3	1.66	0.77
1:E:476:ASN:HB3	1:Q:634:MET:HG2	1.66	0.77
1:G:634:MET:HG2	1:H:476:ASN:HB3	57.94	0.77
1:3:594:ASP:OD1	1:3:595:VAL:N	2.18	0.77
1:4:594:ASP:OD1	1:4:595:VAL:N	2.18	0.77
1:M:594:ASP:OD1	1:M:595:VAL:N	2.18	0.77
1:N:594:ASP:OD1	1:N:595:VAL:N	2.18	0.77
1:O:594:ASP:OD1	1:O:595:VAL:N	2.18	0.77
1:R:594:ASP:OD1	1:R:595:VAL:N	2.18	0.77
1:S:594:ASP:OD1	1:S:595:VAL:N	2.18	0.77
1:T:594:ASP:OD1	1:T:595:VAL:N	2.18	0.77
1:U:594:ASP:OD1	1:U:595:VAL:N	2.18	0.77
1:Z:634:MET:HG2	1:2:476:ASN:HB3	90.60	0.77
1:I:594:ASP:OD1	1:I:595:VAL:N	2.18	0.77
1:W:634:MET:HG2	1:Y:476:ASN:HB3	34.42	0.77
1:Z:594:ASP:OD1	1:Z:595:VAL:N	2.18	0.77
1:2:285:ASN:O	1:2:286:ARG:HG3	1.84	0.77
1:3:634:MET:HG2	1:4:476:ASN:HB3	1.66	0.77
1:C:594:ASP:OD1	1:C:595:VAL:N	2.18	0.77
1:O:262:SER:HB2	1:O:272:TYR:H	1.48	0.77
1:X:285:ASN:O	1:X:286:ARG:HG3	1.84	0.77
1:F:476:ASN:HB3	1:H:634:MET:HG2	127.43	0.77
1:3:262:SER:HB2	1:3:272:TYR:H	1.48	0.76
1:7:262:SER:HB2	1:7:272:TYR:H	1.48	0.76
1:A:634:MET:HG2	1:K:476:ASN:HB3	121.36	0.76
1:G:594:ASP:OD1	1:G:595:VAL:N	2.18	0.76
1:H:594:ASP:OD1	1:H:595:VAL:N	2.18	0.76
1:Q:594:ASP:OD1	1:Q:595:VAL:N	2.18	0.76
1:2:262:SER:HB2	1:2:272:TYR:H	1.48	0.76
1:2:594:ASP:OD1	1:2:595:VAL:N	2.18	0.76
1:D:476:ASN:HB3	1:N:634:MET:HG2	1.66	0.76
1:G:476:ASN:HB3	1:I:634:MET:HG2	1.66	0.76
1:V:594:ASP:OD1	1:V:595:VAL:N	2.18	0.76
1:X:594:ASP:OD1	1:X:595:VAL:N	2.18	0.76
1:Y:594:ASP:OD1	1:Y:595:VAL:N	2.18	0.76
1:5:594:ASP:OD1	1:5:595:VAL:N	2.18	0.76
1:6:476:ASN:HB3	1:7:634:MET:HG2	1.66	0.76
1:D:594:ASP:OD1	1:D:595:VAL:N	2.18	0.76
1:E:634:MET:HG2	1:F:476:ASN:HB3	1.66	0.76
1:J:594:ASP:OD1	1:J:595:VAL:N	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:594:ASP:OD1	1:K:595:VAL:N	2.18	0.76
1:J:476:ASN:HB3	1:K:634:MET:HG2	57.94	0.76
1:5:476:ASN:HB3	1:6:634:MET:HG2	1.66	0.76
1:A:634:MET:HG2	1:I:476:ASN:HB3	1.67	0.76
1:L:594:ASP:OD1	1:L:595:VAL:N	2.18	0.76
1:R:584:GLN:NE2	1:S:487:ARG:O	2.15	0.76
1:A:594:ASP:OD1	1:A:595:VAL:N	2.18	0.76
1:B:476:ASN:HB3	1:J:634:MET:HG2	1.66	0.76
1:F:594:ASP:OD1	1:F:595:VAL:N	2.18	0.76
1:F:634:MET:HG2	1:Q:476:ASN:HB3	1.66	0.76
1:C:476:ASN:HB3	1:O:634:MET:HG2	137.46	0.76
1:W:594:ASP:OD1	1:W:595:VAL:N	2.18	0.76
1:B:476:ASN:HB3	1:M:634:MET:HG2	112.80	0.76
1:D:476:ASN:HB3	1:L:634:MET:HG2	127.43	0.76
1:P:594:ASP:OD1	1:P:595:VAL:N	2.18	0.76
1:V:634:MET:HG2	1:X:476:ASN:HB3	1.66	0.76
1:X:584:GLN:NE2	1:Y:487:ARG:O	107.73	0.76
1:X:476:ASN:HB3	1:Y:634:MET:HG2	75.19	0.76
1:8:262:SER:HB2	1:8:272:TYR:H	1.48	0.76
1:E:594:ASP:OD1	1:E:595:VAL:N	2.18	0.76
1:L:476:ASN:HB3	1:T:634:MET:HG2	198.27	0.76
1:1:594:ASP:OD1	1:1:595:VAL:N	2.18	0.75
1:Z:476:ASN:HB3	1:1:634:MET:HG2	86.59	0.75
1:B:594:ASP:OD1	1:B:595:VAL:N	2.18	0.75
1:2:701:THR:HG23	1:2:703:ASN:H	1.52	0.75
1:O:476:ASN:HB3	1:P:634:MET:HG2	75.19	0.75
1:V:487:ARG:O	1:X:584:GLN:NE2	2.15	0.75
1:Z:497:ASN:HB3	1:Z:498:SER:HA	1.69	0.75
1:3:497:ASN:HB3	1:3:498:SER:HA	1.69	0.75
1:L:701:THR:HG23	1:L:703:ASN:H	1.52	0.75
1:O:497:ASN:HB3	1:O:498:SER:HA	1.69	0.75
1:T:497:ASN:HB3	1:T:498:SER:HA	1.69	0.75
1:Y:497:ASN:HB3	1:Y:498:SER:HA	1.69	0.75
1:1:497:ASN:HB3	1:1:498:SER:HA	1.69	0.75
1:5:701:THR:HG23	1:5:703:ASN:H	1.52	0.75
1:6:594:ASP:OD1	1:6:595:VAL:N	2.18	0.75
1:D:701:THR:HG23	1:D:703:ASN:H	1.52	0.75
1:G:497:ASN:HB3	1:G:498:SER:HA	1.69	0.75
1:H:497:ASN:HB3	1:H:498:SER:HA	1.69	0.75
1:I:497:ASN:HB3	1:I:498:SER:HA	1.69	0.75
1:K:701:THR:HG23	1:K:703:ASN:H	1.52	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:497:ASN:HB3	1:L:498:SER:HA	1.69	0.75
1:R:497:ASN:HB3	1:R:498:SER:HA	1.69	0.75
1:T:701:THR:HG23	1:T:703:ASN:H	1.52	0.75
1:Z:701:THR:HG23	1:Z:703:ASN:H	1.52	0.75
1:B:497:ASN:HB3	1:B:498:SER:HA	1.69	0.75
1:Q:701:THR:HG23	1:Q:703:ASN:H	1.52	0.75
1:R:701:THR:HG23	1:R:703:ASN:H	1.52	0.75
1:S:497:ASN:HB3	1:S:498:SER:HA	1.69	0.75
1:V:497:ASN:HB3	1:V:498:SER:HA	1.69	0.75
1:6:497:ASN:HB3	1:6:498:SER:HA	1.69	0.75
1:C:497:ASN:HB3	1:C:498:SER:HA	1.69	0.75
1:E:701:THR:HG23	1:E:703:ASN:H	1.52	0.75
1:F:497:ASN:HB3	1:F:498:SER:HA	1.69	0.75
1:C:486:GLN:NE2	1:P:584:GLN:OE1	79.57	0.75
1:W:701:THR:HG23	1:W:703:ASN:H	1.52	0.75
1:Y:701:THR:HG23	1:Y:703:ASN:H	1.52	0.75
1:7:594:ASP:OD1	1:7:595:VAL:N	2.18	0.75
1:E:497:ASN:HB3	1:E:498:SER:HA	1.69	0.75
1:H:701:THR:HG23	1:H:703:ASN:H	1.52	0.75
1:M:487:ARG:O	1:O:584:GLN:NE2	127.41	0.75
1:Z:487:ARG:O	1:3:584:GLN:NE2	2.15	0.75
1:K:497:ASN:HB3	1:K:498:SER:HA	1.69	0.74
1:7:497:ASN:HB3	1:7:498:SER:HA	1.69	0.74
1:B:701:THR:HG23	1:B:703:ASN:H	1.52	0.74
1:N:701:THR:HG23	1:N:703:ASN:H	1.52	0.74
1:7:701:THR:HG23	1:7:703:ASN:H	1.52	0.74
1:8:594:ASP:OD1	1:8:595:VAL:N	2.18	0.74
1:F:701:THR:HG23	1:F:703:ASN:H	1.52	0.74
1:Q:541:ILE:HG21	1:S:443:TYR:HB2	93.93	0.74
1:2:497:ASN:HB3	1:2:498:SER:HA	1.69	0.74
1:4:701:THR:HG23	1:4:703:ASN:H	1.52	0.74
1:A:701:THR:HG23	1:A:703:ASN:H	1.52	0.74
1:G:701:THR:HG23	1:G:703:ASN:H	1.52	0.74
1:J:701:THR:HG23	1:J:703:ASN:H	1.52	0.74
1:O:701:THR:HG23	1:O:703:ASN:H	1.52	0.74
1:C:484:ARG:NH2	1:P:581:THR:O	87.12	0.74
1:P:701:THR:HG23	1:P:703:ASN:H	1.52	0.74
1:X:701:THR:HG23	1:X:703:ASN:H	1.52	0.74
1:6:701:THR:HG23	1:6:703:ASN:H	1.52	0.74
1:C:701:THR:HG23	1:C:703:ASN:H	1.52	0.74
1:M:701:THR:HG23	1:M:703:ASN:H	1.52	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:701:THR:HG23	1:1:703:ASN:H	1.52	0.74
1:A:429:SER:HA	1:A:567:THR:HG23	1.70	0.74
1:C:487:ARG:O	1:M:584:GLN:NE2	2.15	0.74
1:D:497:ASN:HB3	1:D:498:SER:HA	1.69	0.74
1:U:701:THR:HG23	1:U:703:ASN:H	1.52	0.74
1:3:701:THR:HG23	1:3:703:ASN:H	1.52	0.74
1:5:497:ASN:HB3	1:5:498:SER:HA	1.69	0.74
1:6:443:TYR:HB2	1:7:541:ILE:HG21	1.70	0.74
1:N:429:SER:HA	1:N:567:THR:HG23	1.70	0.74
1:O:429:SER:HA	1:O:567:THR:HG23	1.70	0.74
1:Q:497:ASN:HB3	1:Q:498:SER:HA	1.69	0.74
1:3:429:SER:HA	1:3:567:THR:HG23	1.70	0.74
1:P:497:ASN:HB3	1:P:498:SER:HA	1.69	0.74
1:V:701:THR:HG23	1:V:703:ASN:H	1.52	0.74
1:F:443:TYR:HB2	1:H:541:ILE:HG21	141.28	0.74
1:H:429:SER:HA	1:H:567:THR:HG23	1.70	0.74
1:I:701:THR:HG23	1:I:703:ASN:H	1.52	0.74
1:J:497:ASN:HB3	1:J:498:SER:HA	1.69	0.74
1:J:584:GLN:NE2	1:L:487:ARG:O	2.15	0.74
1:X:497:ASN:HB3	1:X:498:SER:HA	1.69	0.74
1:Y:429:SER:HA	1:Y:567:THR:HG23	1.70	0.74
1:4:429:SER:HA	1:4:567:THR:HG23	1.70	0.73
1:P:326:ASN:HD21	1:6:329:THR:HG22	206.42	0.73
1:C:429:SER:HA	1:C:567:THR:HG23	1.70	0.73
1:E:541:ILE:HG21	1:V:443:TYR:HB2	175.06	0.73
1:G:584:GLN:NE2	1:I:487:ARG:O	2.14	0.73
1:I:429:SER:HA	1:I:567:THR:HG23	1.70	0.73
1:L:429:SER:HA	1:L:567:THR:HG23	1.70	0.73
1:M:497:ASN:HB3	1:M:498:SER:HA	1.69	0.73
1:Q:429:SER:HA	1:Q:567:THR:HG23	1.70	0.73
1:S:429:SER:HA	1:S:567:THR:HG23	1.70	0.73
1:V:429:SER:HA	1:V:567:THR:HG23	1.70	0.73
1:W:429:SER:HA	1:W:567:THR:HG23	1.70	0.73
1:Z:429:SER:HA	1:Z:567:THR:HG23	1.70	0.73
1:A:497:ASN:HB3	1:A:498:SER:HA	1.69	0.73
1:B:443:TYR:HB2	1:J:541:ILE:HG21	1.70	0.73
1:B:443:TYR:HB2	1:M:541:ILE:HG21	138.09	0.73
1:Q:584:GLN:NE2	1:R:487:ARG:O	78.40	0.73
1:T:429:SER:HA	1:T:567:THR:HG23	1.70	0.73
1:U:497:ASN:HB3	1:U:498:SER:HA	1.69	0.73
1:W:497:ASN:HB3	1:W:498:SER:HA	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:584:GLN:NE2	1:X:487:ARG:O	78.41	0.73
1:W:584:GLN:NE2	1:Y:487:ARG:O	2.15	0.73
1:J:443:TYR:HB2	1:K:541:ILE:HG21	58.24	0.73
1:M:429:SER:HA	1:M:567:THR:HG23	1.70	0.73
1:3:541:ILE:HG21	1:4:443:TYR:HB2	1.70	0.73
1:B:429:SER:HA	1:B:567:THR:HG23	1.70	0.73
1:E:541:ILE:HG21	1:F:443:TYR:HB2	1.71	0.73
1:J:429:SER:HA	1:J:567:THR:HG23	1.70	0.73
1:K:429:SER:HA	1:K:567:THR:HG23	1.70	0.73
1:M:541:ILE:HG21	1:O:443:TYR:HB2	95.50	0.73
1:N:443:TYR:HB2	1:O:541:ILE:HG21	58.23	0.73
1:Q:443:TYR:HB2	1:R:541:ILE:HG21	58.23	0.73
1:S:701:THR:HG23	1:S:703:ASN:H	1.52	0.73
1:W:541:ILE:HG21	1:Y:443:TYR:HB2	53.29	0.73
1:Z:541:ILE:HG21	1:3:443:TYR:HB2	1.71	0.73
1:1:429:SER:HA	1:1:567:THR:HG23	1.70	0.73
1:5:487:ARG:O	1:7:584:GLN:NE2	2.15	0.73
1:8:497:ASN:HB3	1:8:498:SER:HA	1.69	0.73
1:8:429:SER:HA	1:8:567:THR:HG23	1.70	0.73
1:D:429:SER:HA	1:D:567:THR:HG23	1.70	0.73
1:G:429:SER:HA	1:G:567:THR:HG23	1.70	0.73
1:P:429:SER:HA	1:P:567:THR:HG23	1.70	0.73
1:E:584:GLN:NE2	1:X:487:ARG:O	149.34	0.73
1:D:487:ARG:O	1:T:584:GLN:NE2	152.33	0.73
1:Z:541:ILE:HG21	1:2:443:TYR:HB2	107.28	0.73
1:B:541:ILE:HG21	1:C:443:TYR:HB2	97.22	0.73
1:G:541:ILE:HG21	1:H:443:TYR:HB2	58.23	0.73
1:E:584:GLN:NE2	1:Q:487:ARG:O	2.15	0.73
1:T:541:ILE:HG21	1:V:443:TYR:HB2	95.51	0.73
1:W:443:TYR:HB2	1:X:541:ILE:HG21	58.24	0.73
1:E:443:TYR:HB2	1:X:541:ILE:HG21	152.91	0.73
1:5:429:SER:HA	1:5:567:THR:HG23	1.70	0.73
1:A:443:TYR:HB2	1:G:541:ILE:HG21	1.71	0.73
1:B:541:ILE:HG21	1:L:443:TYR:HB2	1.71	0.73
1:R:541:ILE:HG21	1:U:443:TYR:HB2	1.71	0.73
1:S:443:TYR:HB2	1:U:541:ILE:HG21	1.70	0.73
1:U:443:TYR:HB2	1:V:541:ILE:HG21	58.23	0.73
1:W:443:TYR:HB2	1:Y:541:ILE:HG21	1.71	0.73
1:D:486:GLN:NE2	1:T:584:GLN:OE1	151.78	0.72
1:F:314:LYS:HG2	1:F:410:THR:HG22	1.71	0.72
1:N:443:TYR:HB2	1:P:541:ILE:HG21	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:429:SER:HA	1:R:567:THR:HG23	1.70	0.72
1:1:584:GLN:OE1	1:2:486:GLN:NE2	2.22	0.72
1:5:584:GLN:NE2	1:6:487:ARG:O	2.15	0.72
1:A:443:TYR:HB2	1:8:541:ILE:HG21	173.72	0.72
1:J:314:LYS:HG2	1:J:410:THR:HG22	1.71	0.72
1:I:541:ILE:HG21	1:K:443:TYR:HB2	95.50	0.72
1:N:497:ASN:HB3	1:N:498:SER:HA	1.69	0.72
1:R:314:LYS:HG2	1:R:410:THR:HG22	1.71	0.72
1:H:443:TYR:HB2	1:W:541:ILE:HG21	1.71	0.72
1:X:314:LYS:HG2	1:X:410:THR:HG22	1.71	0.72
1:4:497:ASN:HB3	1:4:498:SER:HA	1.69	0.72
1:E:443:TYR:HB2	1:Q:541:ILE:HG21	1.71	0.72
1:K:314:LYS:HG2	1:K:410:THR:HG22	1.71	0.72
1:K:541:ILE:HG21	1:8:443:TYR:HB2	1.70	0.72
1:O:314:LYS:HG2	1:O:410:THR:HG22	1.71	0.72
1:5:541:ILE:HG21	1:7:443:TYR:HB2	1.71	0.72
1:8:701:THR:HG23	1:8:703:ASN:H	1.52	0.72
1:A:314:LYS:HG2	1:A:410:THR:HG22	1.71	0.72
1:D:314:LYS:HG2	1:D:410:THR:HG22	1.71	0.72
1:D:541:ILE:HG21	1:P:443:TYR:HB2	1.71	0.72
1:H:314:LYS:HG2	1:H:410:THR:HG22	1.71	0.72
1:L:314:LYS:HG2	1:L:410:THR:HG22	1.72	0.72
1:S:314:LYS:HG2	1:S:410:THR:HG22	1.71	0.72
1:W:314:LYS:HG2	1:W:410:THR:HG22	1.71	0.72
1:Y:314:LYS:HG2	1:Y:410:THR:HG22	1.72	0.72
1:C:314:LYS:HG2	1:C:410:THR:HG22	1.72	0.72
1:F:487:ARG:O	1:Q:584:GLN:NE2	2.15	0.72
1:G:314:LYS:HG2	1:G:410:THR:HG22	1.72	0.72
1:P:314:LYS:HG2	1:P:410:THR:HG22	1.71	0.72
1:U:429:SER:HA	1:U:567:THR:HG23	1.70	0.72
1:1:584:GLN:NE2	1:2:487:ARG:O	2.16	0.72
1:4:314:LYS:HG2	1:4:410:THR:HG22	1.71	0.72
1:N:314:LYS:HG2	1:N:410:THR:HG22	1.71	0.72
1:Q:314:LYS:HG2	1:Q:410:THR:HG22	1.71	0.72
1:L:584:GLN:NE2	1:T:487:ARG:O	234.96	0.72
1:E:429:SER:HA	1:E:567:THR:HG23	1.70	0.72
1:F:429:SER:HA	1:F:567:THR:HG23	1.70	0.72
1:M:314:LYS:HG2	1:M:410:THR:HG22	1.71	0.72
1:D:443:TYR:HB2	1:N:541:ILE:HG21	1.70	0.72
1:R:443:TYR:HB2	1:S:541:ILE:HG21	1.71	0.72
1:2:429:SER:HA	1:2:567:THR:HG23	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:ARG:O	1:K:584:GLN:NE2	158.41	0.72
1:D:541:ILE:HG21	1:T:443:TYR:HB2	139.36	0.72
1:E:487:ARG:O	1:V:584:GLN:NE2	179.96	0.72
1:S:452:SER:HB2	1:S:453:GLY:HA3	1.72	0.72
1:W:487:ARG:O	1:Y:584:GLN:NE2	37.14	0.72
1:Z:487:ARG:O	1:2:584:GLN:NE2	110.86	0.72
1:Z:584:GLN:OE1	1:4:486:GLN:NE2	2.23	0.72
1:6:452:SER:HB2	1:6:453:GLY:HA3	1.72	0.72
1:7:429:SER:HA	1:7:567:THR:HG23	1.70	0.72
1:A:541:ILE:HG21	1:K:443:TYR:HB2	140.35	0.72
1:L:443:TYR:HB2	1:T:541:ILE:HG21	213.40	0.72
1:U:452:SER:HB2	1:U:453:GLY:HA3	1.72	0.72
1:Z:443:TYR:HB2	1:4:541:ILE:HG21	1.71	0.72
1:3:314:LYS:HG2	1:3:410:THR:HG22	1.71	0.72
1:6:429:SER:HA	1:6:567:THR:HG23	1.70	0.72
1:C:452:SER:HB2	1:C:453:GLY:HA3	1.72	0.72
1:J:443:TYR:HB2	1:L:541:ILE:HG21	1.70	0.72
1:C:541:ILE:HG21	1:M:443:TYR:HB2	1.70	0.72
1:M:584:GLN:OE1	1:N:486:GLN:NE2	105.15	0.72
1:D:584:GLN:NE2	1:N:487:ARG:O	2.15	0.72
1:R:452:SER:HB2	1:R:453:GLY:HA3	1.72	0.72
1:T:443:TYR:HB2	1:U:541:ILE:HG21	97.21	0.72
1:T:452:SER:HB2	1:T:453:GLY:HA3	1.72	0.72
1:Z:314:LYS:HG2	1:Z:410:THR:HG22	1.72	0.72
1:Z:584:GLN:NE2	1:1:487:ARG:O	92.46	0.71
1:8:314:LYS:HG2	1:8:410:THR:HG22	1.71	0.71
1:D:443:TYR:HB2	1:L:541:ILE:HG21	141.28	0.71
1:E:452:SER:HB2	1:E:453:GLY:HA3	1.72	0.71
1:F:452:SER:HB2	1:F:453:GLY:HA3	1.72	0.71
1:G:443:TYR:HB2	1:I:541:ILE:HG21	1.70	0.71
1:G:487:ARG:O	1:H:584:GLN:NE2	78.40	0.71
1:L:452:SER:HB2	1:L:453:GLY:HA3	1.72	0.71
1:F:541:ILE:HG21	1:Q:443:TYR:HB2	1.71	0.71
1:W:452:SER:HB2	1:W:453:GLY:HA3	1.72	0.71
1:X:429:SER:HA	1:X:567:THR:HG23	1.70	0.71
1:5:443:TYR:HB2	1:6:541:ILE:HG21	1.71	0.71
1:7:314:LYS:HG2	1:7:410:THR:HG22	1.71	0.71
1:C:443:TYR:HB2	1:O:541:ILE:HG21	152.54	0.71
1:G:584:GLN:OE1	1:I:486:GLN:NE2	2.23	0.71
1:I:443:TYR:HB2	1:J:541:ILE:HG21	97.19	0.71
1:K:452:SER:HB2	1:K:453:GLY:HA3	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:486:GLN:NE2	1:O:584:GLN:OE1	131.69	0.71
1:C:584:GLN:OE1	1:O:486:GLN:NE2	150.68	0.71
1:1:452:SER:HB2	1:1:453:GLY:HA3	1.72	0.71
1:D:452:SER:HB2	1:D:453:GLY:HA3	1.72	0.71
1:F:541:ILE:HG21	1:G:443:TYR:HB2	93.92	0.71
1:I:584:GLN:NE2	1:J:487:ARG:O	107.71	0.71
1:V:486:GLN:NE2	1:X:584:GLN:OE1	2.23	0.71
1:E:584:GLN:OE1	1:X:486:GLN:NE2	149.71	0.71
1:X:584:GLN:OE1	1:Y:486:GLN:NE2	105.15	0.71
1:Z:486:GLN:NE2	1:3:584:GLN:OE1	2.23	0.71
1:6:584:GLN:NE2	1:7:487:ARG:O	2.15	0.71
1:H:452:SER:HB2	1:H:453:GLY:HA3	1.72	0.71
1:O:452:SER:HB2	1:O:453:GLY:HA3	1.72	0.71
1:N:584:GLN:NE2	1:O:487:ARG:O	78.40	0.71
1:P:452:SER:HB2	1:P:453:GLY:HA3	1.72	0.71
1:T:314:LYS:HG2	1:T:410:THR:HG22	1.71	0.71
1:3:625:ASP:N	1:3:625:ASP:OD1	2.23	0.71
1:6:314:LYS:HG2	1:6:410:THR:HG22	1.71	0.71
1:7:452:SER:HB2	1:7:453:GLY:HA3	1.72	0.71
1:E:314:LYS:HG2	1:E:410:THR:HG22	1.72	0.71
1:G:452:SER:HB2	1:G:453:GLY:HA3	1.72	0.71
1:F:486:GLN:NE2	1:G:584:GLN:OE1	94.10	0.71
1:I:584:GLN:OE1	1:J:486:GLN:NE2	105.13	0.71
1:X:443:TYR:HB2	1:Y:541:ILE:HG21	97.21	0.71
1:W:486:GLN:NE2	1:Y:584:GLN:OE1	31.31	0.71
1:2:314:LYS:HG2	1:2:410:THR:HG22	1.71	0.71
1:A:452:SER:HB2	1:A:453:GLY:HA3	1.72	0.71
1:O:625:ASP:N	1:O:625:ASP:OD1	2.23	0.71
1:Q:452:SER:HB2	1:Q:453:GLY:HA3	1.72	0.71
1:L:581:THR:O	1:T:484:ARG:NH2	236.39	0.71
1:T:625:ASP:OD1	1:T:625:ASP:N	2.23	0.71
1:T:584:GLN:OE1	1:U:486:GLN:NE2	105.14	0.71
1:E:486:GLN:NE2	1:V:584:GLN:OE1	177.25	0.71
1:W:584:GLN:OE1	1:X:486:GLN:NE2	82.53	0.71
1:1:625:ASP:OD1	1:1:625:ASP:N	2.23	0.71
1:4:452:SER:HB2	1:4:453:GLY:HA3	1.72	0.71
1:F:584:GLN:OE1	1:H:486:GLN:NE2	155.85	0.71
1:H:487:ARG:O	1:Y:584:GLN:NE2	2.15	0.71
1:A:486:GLN:NE2	1:I:584:GLN:OE1	2.23	0.71
1:J:584:GLN:OE1	1:K:486:GLN:NE2	82.53	0.71
1:M:443:TYR:HB2	1:N:541:ILE:HG21	97.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:443:TYR:HB2	1:2:541:ILE:HG21	1.72	0.71
1:A:584:GLN:OE1	1:G:486:GLN:NE2	2.23	0.71
1:B:314:LYS:HG2	1:B:410:THR:HG22	1.71	0.71
1:C:634:MET:HG2	1:P:476:ASN:HB3	60.12	0.71
1:E:625:ASP:N	1:E:625:ASP:OD1	2.23	0.71
1:I:452:SER:HB2	1:I:453:GLY:HA3	1.72	0.71
1:I:487:ARG:O	1:K:584:GLN:NE2	127.41	0.71
1:N:452:SER:HB2	1:N:453:GLY:HA3	1.72	0.71
1:D:486:GLN:NE2	1:P:584:GLN:OE1	2.24	0.71
1:R:584:GLN:OE1	1:S:486:GLN:NE2	2.23	0.71
1:S:584:GLN:OE1	1:U:486:GLN:NE2	2.24	0.71
1:U:584:GLN:OE1	1:V:486:GLN:NE2	82.53	0.71
1:V:314:LYS:HG2	1:V:410:THR:HG22	1.72	0.71
1:V:541:ILE:HG21	1:X:443:TYR:HB2	1.71	0.71
1:Y:452:SER:HB2	1:Y:453:GLY:HA3	1.72	0.71
1:3:486:GLN:NE2	1:4:584:GLN:OE1	2.23	0.71
1:5:452:SER:HB2	1:5:453:GLY:HA3	1.72	0.71
1:A:584:GLN:NE2	1:8:487:ARG:O	172.42	0.71
1:F:487:ARG:O	1:G:584:GLN:NE2	92.11	0.71
1:N:584:GLN:NE2	1:P:487:ARG:O	2.15	0.71
1:F:486:GLN:NE2	1:Q:584:GLN:OE1	2.23	0.71
1:W:625:ASP:OD1	1:W:625:ASP:N	2.23	0.71
1:Z:581:THR:O	1:1:484:ARG:NH2	89.55	0.71
1:K:486:GLN:NE2	1:8:584:GLN:OE1	2.24	0.71
1:B:291:PHE:O	1:B:292:SER:OG	2.09	0.71
1:B:486:GLN:NE2	1:C:584:GLN:OE1	105.15	0.71
1:H:584:GLN:OE1	1:W:486:GLN:NE2	2.24	0.71
1:I:314:LYS:HG2	1:I:410:THR:HG22	1.72	0.71
1:N:584:GLN:OE1	1:P:486:GLN:NE2	2.23	0.71
1:Q:584:GLN:OE1	1:R:486:GLN:NE2	82.53	0.71
1:V:452:SER:HB2	1:V:453:GLY:HA3	1.72	0.71
1:W:584:GLN:OE1	1:Y:486:GLN:NE2	2.23	0.71
1:Y:625:ASP:OD1	1:Y:625:ASP:N	2.23	0.71
1:6:584:GLN:OE1	1:7:486:GLN:NE2	2.24	0.70
1:A:584:GLN:OE1	1:8:486:GLN:NE2	169.37	0.70
1:B:486:GLN:NE2	1:L:584:GLN:OE1	2.23	0.70
1:C:625:ASP:OD1	1:C:625:ASP:N	2.23	0.70
1:E:486:GLN:NE2	1:F:584:GLN:OE1	2.24	0.70
1:I:625:ASP:OD1	1:I:625:ASP:N	2.23	0.70
1:J:452:SER:HB2	1:J:453:GLY:HA3	1.72	0.70
1:D:584:GLN:OE1	1:L:486:GLN:NE2	155.86	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:584:GLN:NE2	1:U:487:ARG:O	2.15	0.70
1:V:625:ASP:OD1	1:V:625:ASP:N	2.23	0.70
1:8:452:SER:HB2	1:8:453:GLY:HA3	1.72	0.70
1:R:487:ARG:O	1:U:584:GLN:NE2	2.15	0.70
1:T:487:ARG:O	1:V:584:GLN:NE2	127.41	0.70
1:U:314:LYS:HG2	1:U:410:THR:HG22	1.71	0.70
1:3:487:ARG:O	1:4:584:GLN:NE2	2.16	0.70
1:F:625:ASP:N	1:F:625:ASP:OD1	2.23	0.70
1:G:486:GLN:NE2	1:H:584:GLN:OE1	82.52	0.70
1:H:486:GLN:NE2	1:Y:584:GLN:OE1	2.23	0.70
1:I:486:GLN:NE2	1:K:584:GLN:OE1	131.69	0.70
1:B:584:GLN:OE1	1:M:486:GLN:NE2	121.90	0.70
1:N:584:GLN:OE1	1:O:486:GLN:NE2	82.53	0.70
1:E:584:GLN:OE1	1:Q:486:GLN:NE2	2.23	0.70
1:L:584:GLN:OE1	1:T:486:GLN:NE2	238.14	0.70
1:R:486:GLN:NE2	1:U:584:GLN:OE1	2.23	0.70
1:W:581:THR:O	1:Y:484:ARG:NH2	2.25	0.70
1:Z:584:GLN:OE1	1:1:486:GLN:NE2	91.58	0.70
1:Z:443:TYR:HB2	1:1:541:ILE:HG21	94.88	0.70
1:F:581:THR:O	1:H:484:ARG:NH2	149.74	0.70
1:Q:252:TYR:OH	1:Q:372:VAL:O	2.10	0.70
1:T:484:ARG:NH2	1:V:581:THR:O	138.44	0.70
1:T:584:GLN:NE2	1:U:487:ARG:O	107.72	0.70
1:T:486:GLN:NE2	1:V:584:GLN:OE1	131.69	0.70
1:W:252:TYR:OH	1:W:372:VAL:O	2.10	0.70
1:Z:484:ARG:NH2	1:3:581:THR:O	2.25	0.70
1:5:584:GLN:OE1	1:6:486:GLN:NE2	2.23	0.70
1:6:625:ASP:N	1:6:625:ASP:OD1	2.23	0.70
1:5:486:GLN:NE2	1:7:584:GLN:OE1	2.23	0.70
1:C:486:GLN:NE2	1:M:584:GLN:OE1	2.23	0.70
1:B:584:GLN:OE1	1:J:486:GLN:NE2	2.24	0.70
1:J:584:GLN:OE1	1:L:486:GLN:NE2	2.23	0.70
1:J:581:THR:O	1:K:484:ARG:NH2	84.62	0.70
1:M:452:SER:HB2	1:M:453:GLY:HA3	1.72	0.70
1:Q:581:THR:O	1:R:484:ARG:NH2	84.61	0.70
1:Z:452:SER:HB2	1:Z:453:GLY:HA3	1.72	0.70
1:2:452:SER:HB2	1:2:453:GLY:HA3	1.72	0.70
1:3:252:TYR:OH	1:3:372:VAL:O	2.10	0.70
1:4:252:TYR:OH	1:4:372:VAL:O	2.10	0.70
1:B:452:SER:HB2	1:B:453:GLY:HA3	1.72	0.70
1:E:252:TYR:OH	1:E:372:VAL:O	2.10	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:454:THR:HG23	1:G:455:THR:HG23	1.74	0.70
1:I:454:THR:HG23	1:I:455:THR:HG23	1.74	0.70
1:R:484:ARG:NH2	1:U:581:THR:O	2.25	0.70
1:C:326:ASN:HD21	1:S:329:THR:HG22	129.75	0.70
1:H:541:ILE:HG21	1:Y:443:TYR:HB2	1.71	0.70
1:1:314:LYS:HG2	1:1:410:THR:HG22	1.72	0.70
1:Z:484:ARG:NH2	1:2:581:THR:O	103.34	0.70
1:5:241:THR:HG21	1:5:290:HIS:HB3	1.74	0.70
1:5:314:LYS:HG2	1:5:410:THR:HG22	1.71	0.70
1:A:454:THR:HG23	1:A:455:THR:HG23	1.74	0.70
1:C:252:TYR:OH	1:C:372:VAL:O	2.10	0.70
1:B:584:GLN:NE2	1:J:487:ARG:O	2.16	0.70
1:N:252:TYR:OH	1:N:372:VAL:O	2.10	0.70
1:O:252:TYR:OH	1:O:372:VAL:O	2.10	0.70
1:V:454:THR:HG23	1:V:455:THR:HG23	1.74	0.70
1:2:252:TYR:OH	1:2:372:VAL:O	2.10	0.70
1:A:486:GLN:NE2	1:K:584:GLN:OE1	157.13	0.70
1:D:252:TYR:OH	1:D:372:VAL:O	2.10	0.70
1:D:584:GLN:OE1	1:N:486:GLN:NE2	2.24	0.70
1:E:263:GLN:HG3	1:E:265:GLY:H	1.57	0.70
1:L:252:TYR:OH	1:L:372:VAL:O	2.10	0.70
1:O:454:THR:HG23	1:O:455:THR:HG23	1.74	0.70
1:N:581:THR:O	1:O:484:ARG:NH2	84.61	0.70
1:Q:454:THR:HG23	1:Q:455:THR:HG23	1.74	0.70
1:U:584:GLN:NE2	1:V:487:ARG:O	78.41	0.70
1:W:454:THR:HG23	1:W:455:THR:HG23	1.74	0.70
1:X:241:THR:HG21	1:X:290:HIS:HB3	1.74	0.70
1:Y:454:THR:HG23	1:Y:455:THR:HG23	1.74	0.70
1:2:470:ILE:HG22	1:2:471:ARG:H	1.57	0.70
1:5:263:GLN:HG3	1:5:265:GLY:H	1.57	0.70
1:7:252:TYR:OH	1:7:372:VAL:O	2.10	0.70
1:8:454:THR:HG23	1:8:455:THR:HG23	1.74	0.70
1:K:484:ARG:NH2	1:8:581:THR:O	2.25	0.70
1:B:484:ARG:NH2	1:C:581:THR:O	103.75	0.70
1:B:484:ARG:NH2	1:L:581:THR:O	2.25	0.70
1:B:487:ARG:O	1:C:584:GLN:NE2	107.73	0.70
1:F:252:TYR:OH	1:F:372:VAL:O	2.10	0.70
1:G:263:GLN:HG3	1:G:265:GLY:H	1.57	0.70
1:M:484:ARG:NH2	1:O:581:THR:O	138.44	0.70
1:O:584:GLN:OE1	1:P:486:GLN:NE2	105.15	0.70
1:P:263:GLN:HG3	1:P:265:GLY:H	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:454:THR:HG23	1:P:455:THR:HG23	1.74	0.70
1:D:484:ARG:NH2	1:P:581:THR:O	2.25	0.70
1:Q:241:THR:HG21	1:Q:290:HIS:HB3	1.74	0.70
1:Q:263:GLN:HG3	1:Q:265:GLY:H	1.57	0.70
1:W:263:GLN:HG3	1:W:265:GLY:H	1.57	0.70
1:3:452:SER:HB2	1:3:453:GLY:HA3	1.72	0.70
1:Z:581:THR:O	1:4:484:ARG:NH2	2.25	0.70
1:7:241:THR:HG21	1:7:290:HIS:HB3	1.74	0.70
1:6:581:THR:O	1:7:484:ARG:NH2	2.25	0.70
1:B:487:ARG:O	1:L:584:GLN:NE2	2.15	0.70
1:C:263:GLN:HG3	1:C:265:GLY:H	1.57	0.70
1:E:241:THR:HG21	1:E:290:HIS:HB3	1.74	0.70
1:I:470:ILE:HG22	1:I:471:ARG:H	1.57	0.70
1:J:252:TYR:OH	1:J:372:VAL:O	2.10	0.70
1:M:252:TYR:OH	1:M:372:VAL:O	2.10	0.70
1:N:454:THR:HG23	1:N:455:THR:HG23	1.74	0.70
1:R:241:THR:HG21	1:R:290:HIS:HB3	1.74	0.70
1:V:470:ILE:HG22	1:V:471:ARG:H	1.57	0.70
1:Y:470:ILE:HG22	1:Y:471:ARG:H	1.57	0.70
1:X:581:THR:O	1:Y:484:ARG:NH2	103.75	0.70
1:3:454:THR:HG23	1:3:455:THR:HG23	1.74	0.69
1:4:454:THR:HG23	1:4:455:THR:HG23	1.74	0.69
1:C:470:ILE:HG22	1:C:471:ARG:H	1.57	0.69
1:D:470:ILE:HG22	1:D:471:ARG:H	1.57	0.69
1:H:470:ILE:HG22	1:H:471:ARG:H	1.57	0.69
1:K:252:TYR:OH	1:K:372:VAL:O	2.10	0.69
1:L:263:GLN:HG3	1:L:265:GLY:H	1.57	0.69
1:L:470:ILE:HG22	1:L:471:ARG:H	1.57	0.69
1:B:584:GLN:NE2	1:M:487:ARG:O	125.74	0.69
1:R:252:TYR:OH	1:R:372:VAL:O	2.10	0.69
1:R:470:ILE:HG22	1:R:471:ARG:H	1.57	0.69
1:T:454:THR:HG23	1:T:455:THR:HG23	1.74	0.69
1:Y:241:THR:HG21	1:Y:290:HIS:HB3	1.74	0.69
1:Z:252:TYR:OH	1:Z:372:VAL:O	2.10	0.69
1:1:454:THR:HG23	1:1:455:THR:HG23	1.74	0.69
1:2:263:GLN:HG3	1:2:265:GLY:H	1.57	0.69
1:6:645:GLN:O	1:6:646:ILE:HG13	1.93	0.69
1:A:581:THR:O	1:8:484:ARG:NH2	160.14	0.69
1:D:454:THR:HG23	1:D:455:THR:HG23	1.74	0.69
1:G:484:ARG:NH2	1:H:581:THR:O	84.60	0.69
1:G:581:THR:O	1:I:484:ARG:NH2	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:252:TYR:OH	1:H:372:VAL:O	2.10	0.69
1:K:454:THR:HG23	1:K:455:THR:HG23	1.74	0.69
1:L:241:THR:HG21	1:L:290:HIS:HB3	1.74	0.69
1:L:454:THR:HG23	1:L:455:THR:HG23	1.74	0.69
1:B:581:THR:O	1:M:484:ARG:NH2	107.77	0.69
1:Q:486:GLN:NE2	1:S:584:GLN:OE1	94.10	0.69
1:R:645:GLN:O	1:R:646:ILE:HG13	1.93	0.69
1:S:252:TYR:OH	1:S:372:VAL:O	2.10	0.69
1:T:645:GLN:O	1:T:646:ILE:HG13	1.93	0.69
1:U:263:GLN:HG3	1:U:265:GLY:H	1.57	0.69
1:U:241:THR:HG21	1:U:290:HIS:HB3	1.74	0.69
1:V:263:GLN:HG3	1:V:265:GLY:H	1.57	0.69
1:V:241:THR:HG21	1:V:290:HIS:HB3	1.74	0.69
1:X:452:SER:HB2	1:X:453:GLY:HA3	1.72	0.69
1:Y:252:TYR:OH	1:Y:372:VAL:O	2.10	0.69
1:Z:241:THR:HG21	1:Z:290:HIS:HB3	1.74	0.69
1:5:484:ARG:NH2	1:7:581:THR:O	2.25	0.69
1:A:470:ILE:HG22	1:A:471:ARG:H	1.57	0.69
1:C:454:THR:HG23	1:C:455:THR:HG23	1.74	0.69
1:D:263:GLN:HG3	1:D:265:GLY:H	1.57	0.69
1:F:241:THR:HG21	1:F:290:HIS:HB3	1.74	0.69
1:F:645:GLN:O	1:F:646:ILE:HG13	1.93	0.69
1:I:252:TYR:OH	1:I:372:VAL:O	2.10	0.69
1:K:470:ILE:HG22	1:K:471:ARG:H	1.57	0.69
1:N:291:PHE:O	1:N:292:SER:OG	2.09	0.69
1:M:581:THR:O	1:N:484:ARG:NH2	103.75	0.69
1:R:454:THR:HG23	1:R:455:THR:HG23	1.74	0.69
1:V:252:TYR:OH	1:V:372:VAL:O	2.10	0.69
1:Y:645:GLN:O	1:Y:646:ILE:HG13	1.93	0.69
1:Z:470:ILE:HG22	1:Z:471:ARG:H	1.57	0.69
1:1:252:TYR:OH	1:1:372:VAL:O	2.10	0.69
1:2:291:PHE:O	1:2:292:SER:OG	2.09	0.69
1:6:470:ILE:HG22	1:6:471:ARG:H	1.57	0.69
1:E:581:THR:O	1:Q:484:ARG:NH2	2.25	0.69
1:F:470:ILE:HG22	1:F:471:ARG:H	1.57	0.69
1:G:470:ILE:HG22	1:G:471:ARG:H	1.57	0.69
1:H:645:GLN:O	1:H:646:ILE:HG13	1.93	0.69
1:G:437:LEU:HD13	1:I:374:GLN:HE21	1.57	0.69
1:B:581:THR:O	1:J:484:ARG:NH2	2.26	0.69
1:K:241:THR:HG21	1:K:290:HIS:HB3	1.74	0.69
1:N:263:GLN:HG3	1:N:265:GLY:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:571:VAL:HG12	1:N:572:ALA:H	1.58	0.69
1:N:581:THR:O	1:P:484:ARG:NH2	2.25	0.69
1:O:470:ILE:HG22	1:O:471:ARG:H	1.57	0.69
1:R:581:THR:O	1:S:484:ARG:NH2	2.25	0.69
1:S:645:GLN:O	1:S:646:ILE:HG13	1.93	0.69
1:T:470:ILE:HG22	1:T:471:ARG:H	1.57	0.69
1:U:645:GLN:O	1:U:646:ILE:HG13	1.93	0.69
1:V:645:GLN:O	1:V:646:ILE:HG13	1.93	0.69
1:W:241:THR:HG21	1:W:290:HIS:HB3	1.74	0.69
1:W:291:PHE:O	1:W:292:SER:OG	2.09	0.69
1:W:470:ILE:HG22	1:W:471:ARG:H	1.57	0.69
1:4:645:GLN:O	1:4:646:ILE:HG13	1.93	0.69
1:6:241:THR:HG21	1:6:290:HIS:HB3	1.74	0.69
1:7:454:THR:HG23	1:7:455:THR:HG23	1.74	0.69
1:A:263:GLN:HG3	1:A:265:GLY:H	1.57	0.69
1:A:252:TYR:OH	1:A:372:VAL:O	2.10	0.69
1:B:645:GLN:O	1:B:646:ILE:HG13	1.93	0.69
1:D:241:THR:HG21	1:D:290:HIS:HB3	1.74	0.69
1:E:454:THR:HG23	1:E:455:THR:HG23	1.74	0.69
1:E:470:ILE:HG22	1:E:471:ARG:H	1.57	0.69
1:I:645:GLN:O	1:I:646:ILE:HG13	1.93	0.69
1:N:645:GLN:O	1:N:646:ILE:HG13	1.93	0.69
1:P:252:TYR:OH	1:P:372:VAL:O	2.10	0.69
1:Q:291:PHE:O	1:Q:292:SER:OG	2.09	0.69
1:U:252:TYR:OH	1:U:372:VAL:O	2.10	0.69
1:W:581:THR:O	1:X:484:ARG:NH2	84.61	0.69
1:Z:374:GLN:HE21	1:2:437:LEU:HD13	99.75	0.69
1:Z:454:THR:HG23	1:Z:455:THR:HG23	1.74	0.69
1:1:263:GLN:HG3	1:1:265:GLY:H	1.57	0.69
1:1:571:VAL:HG12	1:1:572:ALA:H	1.58	0.69
1:A:571:VAL:HG12	1:A:572:ALA:H	1.58	0.69
1:C:645:GLN:O	1:C:646:ILE:HG13	1.93	0.69
1:D:291:PHE:O	1:D:292:SER:OG	2.09	0.69
1:D:581:THR:O	1:N:484:ARG:NH2	2.25	0.69
1:G:252:TYR:OH	1:G:372:VAL:O	2.10	0.69
1:K:645:GLN:O	1:K:646:ILE:HG13	1.93	0.69
1:M:241:THR:HG21	1:M:290:HIS:HB3	1.74	0.69
1:T:252:TYR:OH	1:T:372:VAL:O	2.10	0.69
1:T:241:THR:HG21	1:T:290:HIS:HB3	1.74	0.69
1:V:484:ARG:NH2	1:X:581:THR:O	2.25	0.69
1:2:241:THR:HG21	1:2:290:HIS:HB3	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:484:ARG:NH2	1:4:581:THR:O	2.26	0.69
1:5:252:TYR:OH	1:5:372:VAL:O	2.10	0.69
1:8:252:TYR:OH	1:8:372:VAL:O	2.10	0.69
1:B:252:TYR:OH	1:B:372:VAL:O	2.10	0.69
1:I:581:THR:O	1:J:484:ARG:NH2	103.73	0.69
1:M:645:GLN:O	1:M:646:ILE:HG13	1.93	0.69
1:N:437:LEU:HD13	1:O:374:GLN:HE21	40.58	0.69
1:Q:645:GLN:O	1:Q:646:ILE:HG13	1.93	0.69
1:S:263:GLN:HG3	1:S:265:GLY:H	1.57	0.69
1:S:581:THR:O	1:U:484:ARG:NH2	2.25	0.69
1:T:263:GLN:HG3	1:T:265:GLY:H	1.57	0.69
1:U:470:ILE:HG22	1:U:471:ARG:H	1.57	0.69
1:X:252:TYR:OH	1:X:372:VAL:O	2.10	0.69
1:Z:625:ASP:OD1	1:Z:625:ASP:N	2.23	0.69
1:1:470:ILE:HG22	1:1:471:ARG:H	1.57	0.69
1:Z:486:GLN:NE2	1:2:584:GLN:OE1	109.87	0.69
1:5:581:THR:O	1:6:484:ARG:NH2	2.25	0.69
1:8:263:GLN:HG3	1:8:265:GLY:H	1.57	0.69
1:A:241:THR:HG21	1:A:290:HIS:HB3	1.74	0.69
1:A:484:ARG:NH2	1:K:581:THR:O	157.04	0.69
1:B:241:THR:HG21	1:B:290:HIS:HB3	1.74	0.69
1:C:571:VAL:HG12	1:C:572:ALA:H	1.58	0.69
1:E:581:THR:O	1:X:484:ARG:NH2	143.51	0.69
1:E:645:GLN:O	1:E:646:ILE:HG13	1.93	0.69
1:E:484:ARG:NH2	1:F:581:THR:O	2.26	0.69
1:J:581:THR:O	1:L:484:ARG:NH2	2.25	0.69
1:M:571:VAL:HG12	1:M:572:ALA:H	1.58	0.69
1:R:291:PHE:O	1:R:292:SER:OG	2.09	0.69
1:T:571:VAL:HG12	1:T:572:ALA:H	1.58	0.69
1:T:581:THR:O	1:U:484:ARG:NH2	103.73	0.69
1:U:571:VAL:HG12	1:U:572:ALA:H	1.58	0.69
1:W:645:GLN:O	1:W:646:ILE:HG13	1.93	0.69
1:2:454:THR:HG23	1:2:455:THR:HG23	1.74	0.69
1:5:645:GLN:O	1:5:646:ILE:HG13	1.93	0.69
1:8:470:ILE:HG22	1:8:471:ARG:H	1.57	0.69
1:8:645:GLN:O	1:8:646:ILE:HG13	1.93	0.69
1:C:241:THR:HG21	1:C:290:HIS:HB3	1.74	0.69
1:C:484:ARG:NH2	1:M:581:THR:O	2.25	0.69
1:J:571:VAL:HG12	1:J:572:ALA:H	1.58	0.69
1:J:645:GLN:O	1:J:646:ILE:HG13	1.93	0.69
1:D:584:GLN:NE2	1:L:487:ARG:O	153.38	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:571:VAL:HG12	1:L:572:ALA:H	1.58	0.69
1:L:645:GLN:O	1:L:646:ILE:HG13	1.93	0.69
1:M:625:ASP:N	1:M:625:ASP:OD1	2.23	0.69
1:N:241:THR:HG21	1:N:290:HIS:HB3	1.74	0.69
1:O:241:THR:HG21	1:O:290:HIS:HB3	1.74	0.69
1:Q:571:VAL:HG12	1:Q:572:ALA:H	1.58	0.69
1:S:470:ILE:HG22	1:S:471:ARG:H	1.57	0.69
1:S:571:VAL:HG12	1:S:572:ALA:H	1.58	0.69
1:V:571:VAL:HG12	1:V:572:ALA:H	1.58	0.69
1:H:581:THR:O	1:W:484:ARG:NH2	2.26	0.69
1:Y:263:GLN:HG3	1:Y:265:GLY:H	1.57	0.69
1:Y:571:VAL:HG12	1:Y:572:ALA:H	1.58	0.69
1:3:263:GLN:HG3	1:3:265:GLY:H	1.57	0.69
1:4:263:GLN:HG3	1:4:265:GLY:H	1.57	0.69
1:6:263:GLN:HG3	1:6:265:GLY:H	1.57	0.69
1:C:581:THR:O	1:O:484:ARG:NH2	142.67	0.69
1:H:263:GLN:HG3	1:H:265:GLY:H	1.57	0.69
1:H:571:VAL:HG12	1:H:572:ALA:H	1.58	0.69
1:K:571:VAL:HG12	1:K:572:ALA:H	1.58	0.69
1:I:484:ARG:NH2	1:K:581:THR:O	138.44	0.69
1:B:437:LEU:HD13	1:M:374:GLN:HE21	148.92	0.69
1:O:263:GLN:HG3	1:O:265:GLY:H	1.57	0.69
1:U:581:THR:O	1:V:484:ARG:NH2	84.61	0.69
1:W:571:VAL:HG12	1:W:572:ALA:H	1.58	0.69
1:3:571:VAL:HG12	1:3:572:ALA:H	1.58	0.69
1:4:571:VAL:HG12	1:4:572:ALA:H	1.58	0.69
1:6:252:TYR:OH	1:6:372:VAL:O	2.10	0.69
1:7:263:GLN:HG3	1:7:265:GLY:H	1.57	0.69
1:B:454:THR:HG23	1:B:455:THR:HG23	1.74	0.69
1:B:571:VAL:HG12	1:B:572:ALA:H	1.58	0.69
1:F:263:GLN:HG3	1:F:265:GLY:H	1.57	0.69
1:A:581:THR:O	1:G:484:ARG:NH2	2.26	0.69
1:M:470:ILE:HG22	1:M:471:ARG:H	1.57	0.69
1:P:470:ILE:HG22	1:P:471:ARG:H	1.57	0.69
1:P:645:GLN:O	1:P:646:ILE:HG13	1.93	0.69
1:R:263:GLN:HG3	1:R:265:GLY:H	1.57	0.69
1:R:571:VAL:HG12	1:R:572:ALA:H	1.58	0.69
1:X:470:ILE:HG22	1:X:471:ARG:H	1.57	0.69
1:Z:645:GLN:O	1:Z:646:ILE:HG13	1.93	0.69
1:1:645:GLN:O	1:1:646:ILE:HG13	1.93	0.68
1:Z:584:GLN:NE2	1:4:487:ARG:O	2.15	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:437:LEU:HD13	1:J:374:GLN:HE21	1.58	0.68
1:D:326:ASN:HD21	1:S:329:THR:HG22	125.56	0.68
1:H:454:THR:HG23	1:H:455:THR:HG23	1.74	0.68
1:I:571:VAL:HG12	1:I:572:ALA:H	1.58	0.68
1:J:241:THR:HG21	1:J:290:HIS:HB3	1.74	0.68
1:O:571:VAL:HG12	1:O:572:ALA:H	1.58	0.68
1:S:454:THR:HG23	1:S:455:THR:HG23	1.74	0.68
1:W:437:LEU:HD13	1:X:374:GLN:HE21	40.57	0.68
1:A:437:LEU:HD13	1:8:374:GLN:HE21	173.77	0.68
1:B:374:GLN:HE21	1:C:437:LEU:HD13	68.25	0.68
1:B:470:ILE:HG22	1:B:471:ARG:H	1.57	0.68
1:D:645:GLN:O	1:D:646:ILE:HG13	1.93	0.68
1:E:484:ARG:NH2	1:V:581:THR:O	167.47	0.68
1:F:484:ARG:NH2	1:Q:581:THR:O	2.25	0.68
1:G:571:VAL:HG12	1:G:572:ALA:H	1.58	0.68
1:F:484:ARG:NH2	1:G:581:THR:O	87.36	0.68
1:N:437:LEU:HD13	1:P:374:GLN:HE21	1.59	0.68
1:U:291:PHE:O	1:U:292:SER:OG	2.09	0.68
1:U:437:LEU:HD13	1:V:374:GLN:HE21	40.57	0.68
1:E:374:GLN:HE21	1:V:437:LEU:HD13	160.73	0.68
1:T:374:GLN:HE21	1:V:437:LEU:HD13	65.80	0.68
1:2:645:GLN:O	1:2:646:ILE:HG13	1.93	0.68
1:H:241:THR:HG21	1:H:290:HIS:HB3	1.74	0.68
1:A:374:GLN:HE21	1:I:437:LEU:HD13	1.59	0.68
1:B:374:GLN:HE21	1:L:437:LEU:HD13	1.59	0.68
1:S:241:THR:HG21	1:S:290:HIS:HB3	1.74	0.68
1:X:454:THR:HG23	1:X:455:THR:HG23	1.74	0.68
1:Z:571:VAL:HG12	1:Z:572:ALA:H	1.58	0.68
1:1:437:LEU:HD13	1:2:374:GLN:HE21	1.59	0.68
1:3:470:ILE:HG22	1:3:471:ARG:H	1.57	0.68
1:4:241:THR:HG21	1:4:290:HIS:HB3	1.74	0.68
1:5:454:THR:HG23	1:5:455:THR:HG23	1.74	0.68
1:7:470:ILE:HG22	1:7:471:ARG:H	1.57	0.68
1:K:374:GLN:HE21	1:8:437:LEU:HD13	1.58	0.68
1:A:541:ILE:HG21	1:I:443:TYR:HB2	1.75	0.68
1:A:645:GLN:O	1:A:646:ILE:HG13	1.93	0.68
1:F:454:THR:HG23	1:F:455:THR:HG23	1.74	0.68
1:S:437:LEU:HD13	1:U:374:GLN:HE21	1.58	0.68
1:R:374:GLN:HE21	1:U:437:LEU:HD13	1.58	0.68
1:W:374:GLN:HE21	1:Y:437:LEU:HD13	68.06	0.68
1:X:571:VAL:HG12	1:X:572:ALA:H	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:263:GLN:HG3	1:Z:265:GLY:H	1.57	0.68
1:3:374:GLN:HE21	1:4:437:LEU:HD13	1.59	0.68
1:7:645:GLN:O	1:7:646:ILE:HG13	1.93	0.68
1:D:571:VAL:HG12	1:D:572:ALA:H	1.58	0.68
1:A:374:GLN:HE21	1:K:437:LEU:HD13	106.64	0.68
1:O:645:GLN:O	1:O:646:ILE:HG13	1.93	0.68
1:D:374:GLN:HE21	1:P:437:LEU:HD13	1.59	0.68
1:Q:470:ILE:HG22	1:Q:471:ARG:H	1.57	0.68
1:T:437:LEU:HD13	1:U:374:GLN:HE21	68.25	0.68
1:H:584:GLN:NE2	1:W:487:ARG:O	2.16	0.68
1:W:484:ARG:NH2	1:Y:581:THR:O	21.85	0.68
1:5:437:LEU:HD13	1:6:374:GLN:HE21	1.59	0.68
1:C:437:LEU:HD13	1:O:374:GLN:HE21	170.05	0.68
1:D:437:LEU:HD13	1:N:374:GLN:HE21	1.58	0.68
1:F:571:VAL:HG12	1:F:572:ALA:H	1.58	0.68
1:G:645:GLN:O	1:G:646:ILE:HG13	1.93	0.68
1:I:263:GLN:HG3	1:I:265:GLY:H	1.57	0.68
1:M:584:GLN:NE2	1:N:487:ARG:O	107.73	0.68
1:R:437:LEU:HD13	1:S:374:GLN:HE21	1.59	0.68
1:X:645:GLN:O	1:X:646:ILE:HG13	1.93	0.68
1:H:484:ARG:NH2	1:Y:581:THR:O	2.25	0.68
1:5:470:ILE:HG22	1:5:471:ARG:H	1.57	0.68
1:6:454:THR:HG23	1:6:455:THR:HG23	1.74	0.68
1:6:571:VAL:HG12	1:6:572:ALA:H	1.58	0.68
1:B:625:ASP:N	1:B:625:ASP:OD1	2.23	0.68
1:E:571:VAL:HG12	1:E:572:ALA:H	1.58	0.68
1:J:454:THR:HG23	1:J:455:THR:HG23	1.74	0.68
1:M:263:GLN:HG3	1:M:265:GLY:H	1.57	0.68
1:N:470:ILE:HG22	1:N:471:ARG:H	1.57	0.68
1:L:437:LEU:HD13	1:T:374:GLN:HE21	206.80	0.68
1:U:454:THR:HG23	1:U:455:THR:HG23	1.74	0.68
1:E:437:LEU:HD13	1:X:374:GLN:HE21	170.89	0.68
1:W:437:LEU:HD13	1:Y:374:GLN:HE21	1.58	0.68
1:2:580:SER:HA	1:2:592:THR:H	1.59	0.68
1:3:645:GLN:O	1:3:646:ILE:HG13	1.93	0.68
1:A:580:SER:HA	1:A:592:THR:H	1.59	0.68
1:D:580:SER:HA	1:D:592:THR:H	1.59	0.68
1:F:329:THR:HG22	1:G:326:ASN:HD21	1.59	0.68
1:I:437:LEU:HD13	1:J:374:GLN:HE21	68.23	0.68
1:I:580:SER:HA	1:I:592:THR:H	1.59	0.68
1:J:470:ILE:HG22	1:J:471:ARG:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:571:VAL:HG12	1:P:572:ALA:H	1.58	0.68
1:D:484:ARG:NH2	1:T:581:THR:O	151.54	0.68
1:Y:580:SER:HA	1:Y:592:THR:H	1.59	0.68
1:8:291:PHE:O	1:8:292:SER:OG	2.09	0.68
1:C:580:SER:HA	1:C:592:THR:H	1.59	0.68
1:D:437:LEU:HD13	1:L:374:GLN:HE21	131.70	0.68
1:F:374:GLN:HE21	1:Q:437:LEU:HD13	1.59	0.68
1:K:263:GLN:HG3	1:K:265:GLY:H	1.57	0.68
1:J:584:GLN:NE2	1:K:487:ARG:O	78.41	0.68
1:J:437:LEU:HD13	1:L:374:GLN:HE21	1.59	0.68
1:L:326:ASN:HD21	1:N:329:THR:HG22	137.93	0.68
1:N:580:SER:HA	1:N:592:THR:H	1.59	0.68
1:P:291:PHE:O	1:P:292:SER:OG	2.09	0.68
1:2:571:VAL:HG12	1:2:572:ALA:H	1.58	0.68
1:3:562:GLU:OE2	1:3:612:TYR:OH	2.12	0.68
1:4:470:ILE:HG22	1:4:471:ARG:H	1.57	0.68
1:5:571:VAL:HG12	1:5:572:ALA:H	1.58	0.68
1:5:580:SER:HA	1:5:592:THR:H	1.59	0.68
1:8:571:VAL:HG12	1:8:572:ALA:H	1.58	0.68
1:B:263:GLN:HG3	1:B:265:GLY:H	1.57	0.68
1:I:241:THR:HG21	1:I:290:HIS:HB3	1.74	0.68
1:L:562:GLU:OE2	1:L:612:TYR:OH	2.12	0.68
1:M:454:THR:HG23	1:M:455:THR:HG23	1.74	0.68
1:O:562:GLU:OE2	1:O:612:TYR:OH	2.12	0.68
1:Q:437:LEU:HD13	1:R:374:GLN:HE21	40.58	0.68
1:Q:580:SER:HA	1:Q:592:THR:H	1.59	0.68
1:T:580:SER:HA	1:T:592:THR:H	1.59	0.68
1:U:625:ASP:OD1	1:U:625:ASP:N	2.23	0.68
1:X:263:GLN:HG3	1:X:265:GLY:H	1.57	0.68
1:Z:326:ASN:HD21	1:4:329:THR:HG22	123.28	0.68
1:Z:437:LEU:HD13	1:1:374:GLN:HE21	106.45	0.68
1:3:241:THR:HG21	1:3:290:HIS:HB3	1.74	0.67
1:4:580:SER:HA	1:4:592:THR:H	1.59	0.67
1:C:562:GLU:OE2	1:C:612:TYR:OH	2.12	0.67
1:E:487:ARG:O	1:F:584:GLN:NE2	2.16	0.67
1:G:241:THR:HG21	1:G:290:HIS:HB3	1.74	0.67
1:P:580:SER:HA	1:P:592:THR:H	1.59	0.67
1:R:580:SER:HA	1:R:592:THR:H	1.59	0.67
1:T:329:THR:HG22	1:U:326:ASN:HD21	1.59	0.67
1:V:580:SER:HA	1:V:592:THR:H	1.59	0.67
1:2:562:GLU:OE2	1:2:612:TYR:OH	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:580:SER:HA	1:6:592:THR:H	1.59	0.67
1:7:580:SER:HA	1:7:592:THR:H	1.59	0.67
1:D:562:GLU:OE2	1:D:612:TYR:OH	2.12	0.67
1:E:580:SER:HA	1:E:592:THR:H	1.59	0.67
1:F:374:GLN:HE21	1:G:437:LEU:HD13	104.26	0.67
1:F:580:SER:HA	1:F:592:THR:H	1.59	0.67
1:G:580:SER:HA	1:G:592:THR:H	1.59	0.67
1:G:625:ASP:N	1:G:625:ASP:OD1	2.23	0.67
1:J:263:GLN:HG3	1:J:265:GLY:H	1.57	0.67
1:C:374:GLN:HE21	1:M:437:LEU:HD13	1.59	0.67
1:P:241:THR:HG21	1:P:290:HIS:HB3	1.74	0.67
1:S:562:GLU:OE2	1:S:612:TYR:OH	2.12	0.67
1:W:580:SER:HA	1:W:592:THR:H	1.59	0.67
1:1:241:THR:HG21	1:1:290:HIS:HB3	1.74	0.67
1:U:329:THR:HG22	1:2:326:ASN:HD21	207.35	0.67
1:U:580:SER:HA	1:U:592:THR:H	1.59	0.67
1:8:241:THR:HG21	1:8:290:HIS:HB3	1.74	0.67
1:A:484:ARG:NH2	1:I:581:THR:O	2.27	0.67
1:D:374:GLN:HE21	1:T:437:LEU:HD13	124.49	0.67
1:D:581:THR:O	1:L:484:ARG:NH2	149.75	0.67
1:F:584:GLN:NE2	1:H:487:ARG:O	153.37	0.67
1:H:562:GLU:OE2	1:H:612:TYR:OH	2.12	0.67
1:M:374:GLN:HE21	1:O:437:LEU:HD13	65.79	0.67
1:M:437:LEU:HD13	1:N:374:GLN:HE21	68.25	0.67
1:S:580:SER:HA	1:S:592:THR:H	1.59	0.67
1:8:580:SER:HA	1:8:592:THR:H	1.59	0.67
1:H:329:THR:HG22	1:I:326:ASN:HD21	1.58	0.67
1:M:580:SER:HA	1:M:592:THR:H	1.59	0.67
1:P:250:PRO:HB2	1:Q:659:THR:HG22	1.82	0.67
1:O:458:SER:OG	1:P:492:SER:O	120.33	0.67
1:P:625:ASP:N	1:P:625:ASP:OD1	2.23	0.67
1:Q:374:GLN:HE21	1:S:437:LEU:HD13	104.26	0.67
1:1:581:THR:O	1:2:484:ARG:NH2	2.27	0.67
1:6:437:LEU:HD13	1:7:374:GLN:HE21	1.58	0.67
1:B:580:SER:HA	1:B:592:THR:H	1.59	0.67
1:E:374:GLN:HE21	1:F:437:LEU:HD13	1.58	0.67
1:O:584:GLN:NE2	1:P:487:ARG:O	107.73	0.67
1:Q:484:ARG:NH2	1:S:581:THR:O	87.36	0.67
1:A:329:THR:HG22	1:Z:326:ASN:HD21	129.88	0.67
1:Z:374:GLN:HE21	1:3:437:LEU:HD13	1.59	0.67
1:7:571:VAL:HG12	1:7:572:ALA:H	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:437:LEU:HD13	1:H:374:GLN:HE21	131.69	0.67
1:I:374:GLN:HE21	1:K:437:LEU:HD13	65.81	0.67
1:J:562:GLU:OE2	1:J:612:TYR:OH	2.12	0.67
1:M:326:ASN:HD21	1:N:329:THR:HG22	14.21	0.67
1:M:562:GLU:OE2	1:M:612:TYR:OH	2.12	0.67
1:O:580:SER:HA	1:O:592:THR:H	1.59	0.67
1:X:329:THR:HG22	1:Y:326:ASN:HD21	1.60	0.67
1:V:326:ASN:HD21	1:1:329:THR:HG22	204.53	0.67
1:4:291:PHE:O	1:4:292:SER:OG	2.09	0.67
1:F:562:GLU:OE2	1:F:612:TYR:OH	2.12	0.67
1:J:580:SER:HA	1:J:592:THR:H	1.59	0.67
1:O:329:THR:HG22	1:P:326:ASN:HD21	1.60	0.67
1:R:326:ASN:HD21	1:X:329:THR:HG22	119.31	0.67
1:X:562:GLU:OE2	1:X:612:TYR:OH	2.12	0.67
1:Z:562:GLU:OE2	1:Z:612:TYR:OH	2.12	0.67
1:D:487:ARG:O	1:P:584:GLN:NE2	2.15	0.67
1:E:562:GLU:OE2	1:E:612:TYR:OH	2.12	0.67
1:H:580:SER:HA	1:H:592:THR:H	1.59	0.67
1:J:437:LEU:HD13	1:K:374:GLN:HE21	40.58	0.67
1:U:562:GLU:OE2	1:U:612:TYR:OH	2.12	0.67
1:5:562:GLU:OE2	1:5:612:TYR:OH	2.12	0.67
1:5:326:ASN:HD21	1:8:329:THR:HG22	1.60	0.67
1:A:437:LEU:HD13	1:G:374:GLN:HE21	1.59	0.67
1:G:374:GLN:HE21	1:H:437:LEU:HD13	40.58	0.67
1:H:437:LEU:HD13	1:W:374:GLN:HE21	1.58	0.67
1:P:562:GLU:OE2	1:P:612:TYR:OH	2.12	0.67
1:Q:562:GLU:OE2	1:Q:612:TYR:OH	2.12	0.67
1:G:562:GLU:OE2	1:G:612:TYR:OH	2.12	0.66
1:H:625:ASP:N	1:H:625:ASP:OD1	2.23	0.66
1:I:562:GLU:OE2	1:I:612:TYR:OH	2.12	0.66
1:K:487:ARG:O	1:8:584:GLN:NE2	2.15	0.66
1:Q:329:THR:HG22	1:Y:326:ASN:HD21	201.53	0.66
1:E:437:LEU:HD13	1:Q:374:GLN:HE21	1.58	0.66
1:Q:518:ASN:HB2	1:S:474:SER:HA	91.90	0.66
1:W:562:GLU:OE2	1:W:612:TYR:OH	2.12	0.66
1:C:326:ASN:HD21	1:D:329:THR:HG22	1.60	0.66
1:B:326:ASN:HD21	1:C:329:THR:HG22	1.60	0.66
1:B:326:ASN:HD21	1:L:329:THR:HG22	115.55	0.66
1:P:329:THR:HG22	1:Q:326:ASN:HD21	1.60	0.66
1:O:437:LEU:HD13	1:P:374:GLN:HE21	68.25	0.66
1:3:329:THR:HG22	1:8:326:ASN:HD21	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:329:THR:HG22	1:H:326:ASN:HD21	137.92	0.66
1:A:584:GLN:NE2	1:G:487:ARG:O	2.16	0.66
1:L:580:SER:HA	1:L:592:THR:H	1.59	0.66
1:K:326:ASN:HD21	1:W:329:THR:HG22	209.31	0.66
1:3:580:SER:HA	1:3:592:THR:H	1.59	0.66
1:5:374:GLN:HE21	1:7:437:LEU:HD13	1.59	0.66
1:G:326:ASN:HD21	1:K:329:THR:HG22	202.53	0.66
1:K:329:THR:HG22	1:L:326:ASN:HD21	1.60	0.66
1:O:581:THR:O	1:P:484:ARG:NH2	103.74	0.66
1:S:625:ASP:N	1:S:625:ASP:OD1	2.23	0.66
1:T:329:THR:HG22	1:6:326:ASN:HD21	208.74	0.66
1:Y:329:THR:HG22	1:4:326:ASN:HD21	1.60	0.66
1:X:437:LEU:HD13	1:Y:374:GLN:HE21	68.25	0.66
1:Z:580:SER:HA	1:Z:592:THR:H	1.59	0.66
1:1:580:SER:HA	1:1:592:THR:H	1.59	0.66
1:K:326:ASN:HD21	1:7:329:THR:HG22	1.60	0.66
1:Q:487:ARG:O	1:S:584:GLN:NE2	92.11	0.66
1:Y:291:PHE:O	1:Y:292:SER:OG	2.09	0.66
1:D:625:ASP:OD1	1:D:625:ASP:N	2.23	0.66
1:G:329:THR:HG22	1:W:326:ASN:HD21	1.60	0.66
1:H:326:ASN:HD21	1:Z:329:THR:HG22	1.60	0.66
1:K:580:SER:HA	1:K:592:THR:H	1.59	0.66
1:F:326:ASN:HD21	1:R:329:THR:HG22	1.60	0.66
1:V:374:GLN:HE21	1:X:437:LEU:HD13	1.59	0.66
1:Z:437:LEU:HD13	1:4:374:GLN:HE21	1.59	0.66
1:G:329:THR:HG22	1:1:326:ASN:HD21	206.41	0.66
1:G:458:SER:OG	1:I:492:SER:O	2.14	0.66
1:B:329:THR:HG22	1:O:326:ASN:HD21	140.40	0.66
1:U:440:GLN:HE22	1:U:474:SER:H	1.44	0.66
1:V:326:ASN:HD21	1:W:329:THR:HG22	1.61	0.66
1:A:329:THR:HG22	1:E:326:ASN:HD21	1.60	0.66
1:K:625:ASP:N	1:K:625:ASP:OD1	2.23	0.66
1:7:291:PHE:O	1:7:292:SER:OG	2.09	0.66
1:D:326:ASN:HD21	1:E:329:THR:HG22	1.61	0.66
1:O:474:SER:HA	1:P:518:ASN:HB2	79.29	0.66
1:U:343:PHE:HB3	1:U:400:SER:HA	1.79	0.66
1:V:440:GLN:HE22	1:V:474:SER:H	1.44	0.66
1:H:609:ARG:HG2	1:H:610:ASP:H	1.61	0.66
1:I:440:GLN:HE22	1:I:474:SER:H	1.44	0.66
1:I:609:ARG:HG2	1:I:610:ASP:H	1.61	0.66
1:S:343:PHE:HB3	1:S:400:SER:HA	1.79	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:609:ARG:HG2	1:W:610:ASP:H	1.61	0.66
1:X:580:SER:HA	1:X:592:THR:H	1.59	0.66
1:H:374:GLN:HE21	1:Y:437:LEU:HD13	1.59	0.66
1:1:609:ARG:HG2	1:1:610:ASP:H	1.61	0.65
1:2:329:THR:HG22	1:3:326:ASN:HD21	1.60	0.65
1:A:326:ASN:HD21	1:B:329:THR:HG22	1.59	0.65
1:C:440:GLN:HE22	1:C:474:SER:H	1.44	0.65
1:E:343:PHE:HB3	1:E:400:SER:HA	1.79	0.65
1:G:343:PHE:HB3	1:G:400:SER:HA	1.79	0.65
1:G:609:ARG:HG2	1:G:610:ASP:H	1.61	0.65
1:J:343:PHE:HB3	1:J:400:SER:HA	1.78	0.65
1:K:609:ARG:HG2	1:K:610:ASP:H	1.61	0.65
1:L:440:GLN:HE22	1:L:474:SER:H	1.44	0.65
1:M:343:PHE:HB3	1:M:400:SER:HA	1.79	0.65
1:P:343:PHE:HB3	1:P:400:SER:HA	1.79	0.65
1:Q:609:ARG:HG2	1:Q:610:ASP:H	1.61	0.65
1:T:609:ARG:HG2	1:T:610:ASP:H	1.61	0.65
1:W:343:PHE:HB3	1:W:400:SER:HA	1.78	0.65
1:Y:609:ARG:HG2	1:Y:610:ASP:H	1.61	0.65
1:1:440:GLN:HE22	1:1:474:SER:H	1.44	0.65
1:C:609:ARG:HG2	1:C:610:ASP:H	1.61	0.65
1:D:343:PHE:HB3	1:D:400:SER:HA	1.78	0.65
1:E:291:PHE:O	1:E:292:SER:OG	2.09	0.65
1:R:343:PHE:HB3	1:R:400:SER:HA	1.79	0.65
1:S:609:ARG:HG2	1:S:610:ASP:H	1.61	0.65
1:V:470:ILE:O	1:V:472:ASP:N	2.29	0.65
1:V:609:ARG:HG2	1:V:610:ASP:H	1.61	0.65
1:F:329:THR:HG22	1:X:326:ASN:HD21	133.63	0.65
1:Y:343:PHE:HB3	1:Y:400:SER:HA	1.78	0.65
1:Y:470:ILE:O	1:Y:472:ASP:N	2.29	0.65
1:2:343:PHE:HB3	1:2:400:SER:HA	1.79	0.65
1:3:343:PHE:HB3	1:3:400:SER:HA	1.79	0.65
1:6:343:PHE:HB3	1:6:400:SER:HA	1.79	0.65
1:B:544:LYS:HD2	1:B:556:LYS:HA	1.79	0.65
1:F:343:PHE:HB3	1:F:400:SER:HA	1.79	0.65
1:D:329:THR:HG22	1:O:326:ASN:HD21	130.53	0.65
1:O:343:PHE:HB3	1:O:400:SER:HA	1.79	0.65
1:R:609:ARG:HG2	1:R:610:ASP:H	1.61	0.65
1:I:329:THR:HG22	1:T:326:ASN:HD21	211.80	0.65
1:T:440:GLN:HE22	1:T:474:SER:H	1.44	0.65
1:3:544:LYS:HD2	1:3:556:LYS:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:440:GLN:HE22	1:4:474:SER:H	1.44	0.65
1:U:326:ASN:HD21	1:5:329:THR:HG22	214.03	0.65
1:F:440:GLN:HE22	1:F:474:SER:H	1.44	0.65
1:J:625:ASP:OD1	1:J:625:ASP:N	2.23	0.65
1:K:343:PHE:HB3	1:K:400:SER:HA	1.78	0.65
1:L:625:ASP:N	1:L:625:ASP:OD1	2.23	0.65
1:N:326:ASN:HD21	1:R:329:THR:HG22	202.53	0.65
1:N:440:GLN:HE22	1:N:474:SER:H	1.44	0.65
1:O:544:LYS:HD2	1:O:556:LYS:HA	1.79	0.65
1:R:544:LYS:HD2	1:R:556:LYS:HA	1.79	0.65
1:W:544:LYS:HD2	1:W:556:LYS:HA	1.79	0.65
1:I:544:LYS:HD2	1:I:556:LYS:HA	1.79	0.65
1:C:343:PHE:HB3	1:C:400:SER:HA	1.78	0.65
1:G:440:GLN:HE22	1:G:474:SER:H	1.44	0.65
1:G:544:LYS:HD2	1:G:556:LYS:HA	1.79	0.65
1:H:544:LYS:HD2	1:H:556:LYS:HA	1.79	0.65
1:L:343:PHE:HB3	1:L:400:SER:HA	1.78	0.65
1:P:440:GLN:HE22	1:P:474:SER:H	1.44	0.65
1:R:470:ILE:O	1:R:472:ASP:N	2.29	0.65
1:T:544:LYS:HD2	1:T:556:LYS:HA	1.79	0.65
1:Z:544:LYS:HD2	1:Z:556:LYS:HA	1.79	0.65
1:6:440:GLN:HE22	1:6:474:SER:H	1.44	0.65
1:A:544:LYS:HD2	1:A:556:LYS:HA	1.79	0.65
1:D:609:ARG:HG2	1:D:610:ASP:H	1.61	0.65
1:J:291:PHE:O	1:J:292:SER:OG	2.09	0.65
1:L:291:PHE:O	1:L:292:SER:OG	2.09	0.65
1:L:544:LYS:HD2	1:L:556:LYS:HA	1.79	0.65
1:Q:544:LYS:HD2	1:Q:556:LYS:HA	1.79	0.65
1:V:544:LYS:HD2	1:V:556:LYS:HA	1.79	0.65
1:X:440:GLN:HE22	1:X:474:SER:H	1.44	0.65
1:Y:544:LYS:HD2	1:Y:556:LYS:HA	1.79	0.65
1:Z:343:PHE:HB3	1:Z:400:SER:HA	1.78	0.65
1:5:440:GLN:HE22	1:5:474:SER:H	1.44	0.65
1:5:544:LYS:HD2	1:5:556:LYS:HA	1.79	0.65
1:7:544:LYS:HD2	1:7:556:LYS:HA	1.79	0.65
1:A:562:GLU:OE2	1:A:612:TYR:OH	2.12	0.65
1:A:625:ASP:OD1	1:A:625:ASP:N	2.23	0.65
1:B:609:ARG:HG2	1:B:610:ASP:H	1.61	0.65
1:C:291:PHE:O	1:C:292:SER:OG	2.09	0.65
1:E:440:GLN:HE22	1:E:474:SER:H	1.44	0.65
1:I:544:LYS:HD2	1:I:556:LYS:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:544:LYS:HD2	1:K:556:LYS:HA	1.79	0.65
1:J:326:ASN:HD21	1:L:329:THR:HG22	123.28	0.65
1:R:326:ASN:HD21	1:V:329:THR:HG22	1.60	0.65
1:5:609:ARG:HG2	1:5:610:ASP:H	1.61	0.65
1:O:329:THR:HG22	1:7:326:ASN:HD21	205.98	0.65
1:7:440:GLN:HE22	1:7:474:SER:H	1.44	0.65
1:A:343:PHE:HB3	1:A:400:SER:HA	1.78	0.65
1:E:544:LYS:HD2	1:E:556:LYS:HA	1.79	0.65
1:F:609:ARG:HG2	1:F:610:ASP:H	1.61	0.65
1:L:609:ARG:HG2	1:L:610:ASP:H	1.61	0.65
1:N:343:PHE:HB3	1:N:400:SER:HA	1.78	0.65
1:P:544:LYS:HD2	1:P:556:LYS:HA	1.79	0.65
1:P:609:ARG:HG2	1:P:610:ASP:H	1.61	0.65
1:Q:440:GLN:HE22	1:Q:474:SER:H	1.44	0.65
1:R:440:GLN:HE22	1:R:474:SER:H	1.44	0.65
1:Q:329:THR:HG22	1:S:326:ASN:HD21	1.60	0.65
1:U:609:ARG:HG2	1:U:610:ASP:H	1.61	0.65
1:J:329:THR:HG22	1:X:326:ASN:HD21	140.42	0.65
1:4:544:LYS:HD2	1:4:556:LYS:HA	1.79	0.65
1:8:544:LYS:HD2	1:8:556:LYS:HA	1.79	0.65
1:G:291:PHE:O	1:G:292:SER:OG	2.09	0.65
1:N:544:LYS:HD2	1:N:556:LYS:HA	1.79	0.65
1:R:562:GLU:OE2	1:R:612:TYR:OH	2.12	0.65
1:T:326:ASN:HD21	1:Y:329:THR:HG22	137.29	0.65
1:T:343:PHE:HB3	1:T:400:SER:HA	1.79	0.65
1:T:562:GLU:OE2	1:T:612:TYR:OH	2.12	0.65
1:7:343:PHE:HB3	1:7:400:SER:HA	1.78	0.65
1:8:609:ARG:HG2	1:8:610:ASP:H	1.61	0.65
1:A:440:GLN:HE22	1:A:474:SER:H	1.44	0.65
1:C:544:LYS:HD2	1:C:556:LYS:HA	1.79	0.65
1:F:291:PHE:O	1:F:292:SER:OG	2.09	0.65
1:I:343:PHE:HB3	1:I:400:SER:HA	1.79	0.65
1:C:584:GLN:NE2	1:O:487:ARG:O	149.21	0.65
1:S:544:LYS:HD2	1:S:556:LYS:HA	1.79	0.65
1:L:458:SER:OG	1:T:492:SER:O	239.99	0.65
1:U:544:LYS:HD2	1:U:556:LYS:HA	1.79	0.65
1:X:343:PHE:HB3	1:X:400:SER:HA	1.79	0.65
1:Z:291:PHE:O	1:Z:292:SER:OG	2.09	0.65
1:3:609:ARG:HG2	1:3:610:ASP:H	1.61	0.64
1:6:609:ARG:HG2	1:6:610:ASP:H	1.61	0.64
1:A:609:ARG:HG2	1:A:610:ASP:H	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:562:GLU:OE2	1:B:612:TYR:OH	2.12	0.64
1:I:291:PHE:O	1:I:292:SER:OG	2.09	0.64
1:J:440:GLN:HE22	1:J:474:SER:H	1.44	0.64
1:O:609:ARG:HG2	1:O:610:ASP:H	1.61	0.64
1:E:326:ASN:HD21	1:U:329:THR:HG22	200.76	0.64
1:F:326:ASN:HD21	1:Z:329:THR:HG22	134.73	0.64
1:3:440:GLN:HE22	1:3:474:SER:H	1.44	0.64
1:6:562:GLU:OE2	1:6:612:TYR:OH	2.12	0.64
1:F:458:SER:OG	1:H:492:SER:O	159.80	0.64
1:H:250:PRO:HB2	1:I:659:THR:HG22	1.77	0.64
1:J:458:SER:OG	1:K:492:SER:O	73.95	0.64
1:V:291:PHE:O	1:V:292:SER:OG	2.09	0.64
1:V:329:THR:HG22	1:W:326:ASN:HD21	14.21	0.64
1:A:326:ASN:HD21	1:J:329:THR:HG22	117.88	0.64
1:D:470:ILE:O	1:D:472:ASP:N	2.29	0.64
1:J:609:ARG:HG2	1:J:610:ASP:H	1.61	0.64
1:M:544:LYS:HD2	1:M:556:LYS:HA	1.79	0.64
1:R:492:SER:O	1:U:458:SER:OG	2.16	0.64
1:S:440:GLN:HE22	1:S:474:SER:H	1.44	0.64
1:V:343:PHE:HB3	1:V:400:SER:HA	1.79	0.64
1:Z:609:ARG:HG2	1:Z:610:ASP:H	1.61	0.64
1:2:470:ILE:O	1:2:472:ASP:N	2.29	0.64
1:2:609:ARG:HG2	1:2:610:ASP:H	1.61	0.64
1:C:470:ILE:O	1:C:472:ASP:N	2.29	0.64
1:M:609:ARG:HG2	1:M:610:ASP:H	1.61	0.64
1:O:440:GLN:HE22	1:O:474:SER:H	1.44	0.64
1:O:710:VAL:HG23	1:O:711:ASP:H	1.63	0.64
1:V:562:GLU:OE2	1:V:612:TYR:OH	2.12	0.64
1:Z:458:SER:OG	1:1:492:SER:O	99.62	0.64
1:3:710:VAL:HG23	1:3:711:ASP:H	1.63	0.64
1:4:343:PHE:HB3	1:4:400:SER:HA	1.78	0.64
1:4:609:ARG:HG2	1:4:610:ASP:H	1.61	0.64
1:6:710:VAL:HG23	1:6:711:ASP:H	1.63	0.64
1:D:544:LYS:HD2	1:D:556:LYS:HA	1.79	0.64
1:E:609:ARG:HG2	1:E:610:ASP:H	1.61	0.64
1:H:440:GLN:HE22	1:H:474:SER:H	1.44	0.64
1:I:470:ILE:O	1:I:472:ASP:N	2.29	0.64
1:M:323:VAL:HG21	1:S:656:ASN:HD22	128.67	0.64
1:M:329:THR:HG22	1:N:326:ASN:HD21	1.61	0.64
1:M:329:THR:HG22	1:S:326:ASN:HD21	133.17	0.64
1:R:710:VAL:HG23	1:R:711:ASP:H	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:291:PHE:O	1:T:292:SER:OG	2.09	0.64
1:T:710:VAL:HG23	1:T:711:ASP:H	1.63	0.64
1:6:458:SER:OG	1:7:492:SER:O	2.15	0.64
1:B:343:PHE:HB3	1:B:400:SER:HA	1.78	0.64
1:D:518:ASN:HB2	1:T:474:SER:HA	132.48	0.64
1:E:710:VAL:HG23	1:E:711:ASP:H	1.63	0.64
1:F:710:VAL:HG23	1:F:711:ASP:H	1.63	0.64
1:G:470:ILE:O	1:G:472:ASP:N	2.29	0.64
1:J:544:LYS:HD2	1:J:556:LYS:HA	1.79	0.64
1:L:470:ILE:O	1:L:472:ASP:N	2.29	0.64
1:M:470:ILE:O	1:M:472:ASP:N	2.29	0.64
1:Z:440:GLN:HE22	1:Z:474:SER:H	1.44	0.64
1:1:710:VAL:HG23	1:1:711:ASP:H	1.63	0.64
1:2:544:LYS:HD2	1:2:556:LYS:HA	1.79	0.64
1:7:470:ILE:O	1:7:472:ASP:N	2.29	0.64
1:C:329:THR:HG22	1:M:326:ASN:HD21	123.28	0.64
1:C:710:VAL:HG23	1:C:711:ASP:H	1.63	0.64
1:Y:562:GLU:OE2	1:Y:612:TYR:OH	2.12	0.64
1:Z:470:ILE:O	1:Z:472:ASP:N	2.29	0.64
1:1:474:SER:HA	1:2:518:ASN:HB2	1.80	0.64
1:3:470:ILE:O	1:3:472:ASP:N	2.29	0.64
1:6:544:LYS:HD2	1:6:556:LYS:HA	1.79	0.64
1:8:343:PHE:HB3	1:8:400:SER:HA	1.78	0.64
1:B:440:GLN:HE22	1:B:474:SER:H	1.44	0.64
1:M:440:GLN:HE22	1:M:474:SER:H	1.44	0.64
1:N:609:ARG:HG2	1:N:610:ASP:H	1.61	0.64
1:W:710:VAL:HG23	1:W:711:ASP:H	1.63	0.64
1:1:343:PHE:HB3	1:1:400:SER:HA	1.78	0.64
1:5:343:PHE:HB3	1:5:400:SER:HA	1.79	0.64
1:6:291:PHE:O	1:6:292:SER:OG	2.09	0.64
1:7:609:ARG:HG2	1:7:610:ASP:H	1.61	0.64
1:8:470:ILE:O	1:8:472:ASP:N	2.29	0.64
1:A:474:SER:HA	1:8:518:ASN:HB2	160.53	0.64
1:B:474:SER:HA	1:J:518:ASN:HB2	1.80	0.64
1:B:474:SER:HA	1:M:518:ASN:HB2	121.94	0.64
1:E:470:ILE:O	1:E:472:ASP:N	2.29	0.64
1:H:474:SER:HA	1:W:518:ASN:HB2	1.80	0.64
1:I:710:VAL:HG23	1:I:711:ASP:H	1.63	0.64
1:N:483:TYR:O	1:N:484:ARG:HG2	1.98	0.64
1:O:470:ILE:O	1:O:472:ASP:N	2.29	0.64
1:P:470:ILE:O	1:P:472:ASP:N	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:474:SER:HA	1:P:518:ASN:HB2	1.80	0.64
1:Q:343:PHE:HB3	1:Q:400:SER:HA	1.79	0.64
1:Q:470:ILE:O	1:Q:472:ASP:N	2.29	0.64
1:S:710:VAL:HG23	1:S:711:ASP:H	1.63	0.64
1:W:470:ILE:O	1:W:472:ASP:N	2.29	0.64
1:3:518:ASN:HB2	1:4:474:SER:HA	1.80	0.64
1:4:483:TYR:O	1:4:484:ARG:HG2	1.98	0.64
1:A:483:TYR:O	1:A:484:ARG:HG2	1.98	0.64
1:C:474:SER:HA	1:O:518:ASN:HB2	148.60	0.64
1:F:544:LYS:HD2	1:F:556:LYS:HA	1.79	0.64
1:G:710:VAL:HG23	1:G:711:ASP:H	1.63	0.64
1:H:710:VAL:HG23	1:H:711:ASP:H	1.63	0.64
1:I:483:TYR:O	1:I:484:ARG:HG2	1.99	0.64
1:K:440:GLN:HE22	1:K:474:SER:H	1.44	0.64
1:B:458:SER:OG	1:M:492:SER:O	147.28	0.64
1:N:474:SER:HA	1:O:518:ASN:HB2	61.16	0.64
1:Y:440:GLN:HE22	1:Y:474:SER:H	1.44	0.64
1:5:710:VAL:HG23	1:5:711:ASP:H	1.63	0.63
1:A:710:VAL:HG23	1:A:711:ASP:H	1.63	0.63
1:B:458:SER:OG	1:J:492:SER:O	2.16	0.63
1:D:474:SER:HA	1:L:518:ASN:HB2	136.22	0.63
1:D:710:VAL:HG23	1:D:711:ASP:H	1.63	0.63
1:F:483:TYR:O	1:F:484:ARG:HG2	1.98	0.63
1:G:483:TYR:O	1:G:484:ARG:HG2	1.98	0.63
1:H:343:PHE:HB3	1:H:400:SER:HA	1.78	0.63
1:A:518:ASN:HB2	1:I:474:SER:HA	1.80	0.63
1:J:483:TYR:O	1:J:484:ARG:HG2	1.98	0.63
1:K:710:VAL:HG23	1:K:711:ASP:H	1.63	0.63
1:Q:710:VAL:HG23	1:Q:711:ASP:H	1.63	0.63
1:U:483:TYR:O	1:U:484:ARG:HG2	1.98	0.63
1:Z:492:SER:O	1:2:458:SER:OG	122.00	0.63
1:C:541:ILE:HG21	1:P:443:TYR:HB2	60.33	0.63
1:S:291:PHE:O	1:S:292:SER:OG	2.09	0.63
1:U:474:SER:HA	1:V:518:ASN:HB2	61.15	0.63
1:U:710:VAL:HG23	1:U:711:ASP:H	1.63	0.63
1:V:483:TYR:O	1:V:484:ARG:HG2	1.99	0.63
1:W:440:GLN:HE22	1:W:474:SER:H	1.44	0.63
1:X:291:PHE:O	1:X:292:SER:OG	2.09	0.63
1:V:518:ASN:HB2	1:X:474:SER:HA	1.80	0.63
1:X:474:SER:HA	1:Y:518:ASN:HB2	79.30	0.63
1:X:544:LYS:HD2	1:X:556:LYS:HA	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:609:ARG:HG2	1:X:610:ASP:H	1.61	0.63
1:1:562:GLU:OE2	1:1:612:TYR:OH	2.12	0.63
1:6:483:TYR:O	1:6:484:ARG:HG2	1.98	0.63
1:A:474:SER:HA	1:G:518:ASN:HB2	1.80	0.63
1:H:470:ILE:O	1:H:472:ASP:N	2.29	0.63
1:H:483:TYR:O	1:H:484:ARG:HG2	1.98	0.63
1:K:562:GLU:OE2	1:K:612:TYR:OH	2.12	0.63
1:M:483:TYR:O	1:M:484:ARG:HG2	1.98	0.63
1:D:518:ASN:HB2	1:P:474:SER:HA	1.80	0.63
1:R:483:TYR:O	1:R:484:ARG:HG2	1.98	0.63
1:S:470:ILE:O	1:S:472:ASP:N	2.29	0.63
1:S:483:TYR:O	1:S:484:ARG:HG2	1.98	0.63
1:S:474:SER:HA	1:U:518:ASN:HB2	1.80	0.63
1:5:474:SER:HA	1:6:518:ASN:HB2	1.81	0.63
1:C:374:GLN:HE21	1:P:437:LEU:HD13	40.86	0.63
1:B:518:ASN:HB2	1:C:474:SER:HA	79.30	0.63
1:E:492:SER:O	1:F:458:SER:OG	2.16	0.63
1:F:470:ILE:O	1:F:472:ASP:N	2.29	0.63
1:H:291:PHE:O	1:H:292:SER:OG	2.09	0.63
1:L:710:VAL:HG23	1:L:711:ASP:H	1.63	0.63
1:T:483:TYR:O	1:T:484:ARG:HG2	1.98	0.63
1:Y:483:TYR:O	1:Y:484:ARG:HG2	1.98	0.63
1:3:361:CYS:SG	1:3:362:LEU:N	2.72	0.63
1:D:440:GLN:HE22	1:D:474:SER:H	1.44	0.63
1:J:470:ILE:O	1:J:472:ASP:N	2.29	0.63
1:K:483:TYR:O	1:K:484:ARG:HG2	1.99	0.63
1:K:518:ASN:HB2	1:8:474:SER:HA	1.80	0.63
1:L:483:TYR:O	1:L:484:ARG:HG2	1.98	0.63
1:O:361:CYS:SG	1:O:362:LEU:N	2.72	0.63
1:R:474:SER:HA	1:S:518:ASN:HB2	1.81	0.63
1:T:474:SER:HA	1:U:518:ASN:HB2	79.29	0.63
1:T:656:ASN:HD22	1:Y:323:VAL:HG21	132.15	0.63
1:W:483:TYR:O	1:W:484:ARG:HG2	1.98	0.63
1:Z:518:ASN:HB2	1:2:474:SER:HA	95.66	0.63
1:3:483:TYR:O	1:3:484:ARG:HG2	1.98	0.63
1:7:710:VAL:HG23	1:7:711:ASP:H	1.63	0.63
1:A:361:CYS:SG	1:A:362:LEU:N	2.72	0.63
1:B:656:ASN:HD22	1:C:323:VAL:HG21	1.64	0.63
1:F:518:ASN:HB2	1:Q:474:SER:HA	1.81	0.63
1:J:710:VAL:HG23	1:J:711:ASP:H	1.63	0.63
1:K:361:CYS:SG	1:K:362:LEU:N	2.72	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:518:ASN:HB2	1:L:474:SER:HA	1.80	0.63
1:C:518:ASN:HB2	1:M:474:SER:HA	1.81	0.63
1:N:361:CYS:SG	1:N:362:LEU:N	2.72	0.63
1:P:710:VAL:HG23	1:P:711:ASP:H	1.63	0.63
1:R:656:ASN:HD22	1:V:323:VAL:HG21	1.64	0.63
1:X:361:CYS:SG	1:X:362:LEU:N	2.72	0.63
1:X:483:TYR:O	1:X:484:ARG:HG2	1.98	0.63
1:X:710:VAL:HG23	1:X:711:ASP:H	1.63	0.63
1:Z:483:TYR:O	1:Z:484:ARG:HG2	1.98	0.63
1:Z:710:VAL:HG23	1:Z:711:ASP:H	1.63	0.63
1:7:562:GLU:OE2	1:7:612:TYR:OH	2.12	0.63
1:8:440:GLN:HE22	1:8:474:SER:H	1.44	0.63
1:8:483:TYR:O	1:8:484:ARG:HG2	1.98	0.63
1:B:470:ILE:O	1:B:472:ASP:N	2.29	0.63
1:B:656:ASN:HD22	1:L:323:VAL:HG21	98.95	0.63
1:E:361:CYS:SG	1:E:362:LEU:N	2.72	0.63
1:H:361:CYS:SG	1:H:362:LEU:N	2.72	0.63
1:J:474:SER:HA	1:L:518:ASN:HB2	1.81	0.63
1:M:710:VAL:HG23	1:M:711:ASP:H	1.63	0.63
1:N:710:VAL:HG23	1:N:711:ASP:H	1.63	0.63
1:O:483:TYR:O	1:O:484:ARG:HG2	1.99	0.63
1:P:483:TYR:O	1:P:484:ARG:HG2	1.99	0.63
1:Q:483:TYR:O	1:Q:484:ARG:HG2	1.98	0.63
1:U:470:ILE:O	1:U:472:ASP:N	2.29	0.63
1:7:361:CYS:SG	1:7:362:LEU:N	2.72	0.63
1:8:710:VAL:HG23	1:8:711:ASP:H	1.63	0.63
1:F:518:ASN:HB2	1:G:474:SER:HA	91.90	0.63
1:N:562:GLU:OE2	1:N:612:TYR:OH	2.12	0.63
1:E:492:SER:O	1:V:458:SER:OG	199.09	0.63
1:2:361:CYS:SG	1:2:362:LEU:N	2.72	0.63
1:4:710:VAL:HG23	1:4:711:ASP:H	1.63	0.63
1:8:562:GLU:OE2	1:8:612:TYR:OH	2.12	0.63
1:A:291:PHE:O	1:A:292:SER:OG	2.09	0.63
1:D:361:CYS:SG	1:D:362:LEU:N	2.72	0.63
1:I:458:SER:OG	1:J:492:SER:O	120.31	0.63
1:T:361:CYS:SG	1:T:362:LEU:N	2.72	0.63
1:E:518:ASN:HB2	1:V:474:SER:HA	156.20	0.63
1:W:361:CYS:SG	1:W:362:LEU:N	2.72	0.63
1:1:361:CYS:SG	1:1:362:LEU:N	2.72	0.62
1:2:440:GLN:HE22	1:2:474:SER:H	1.44	0.62
1:Z:659:THR:HG22	1:4:250:PRO:HB2	107.94	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:656:ASN:HD22	1:8:323:VAL:HG21	1.64	0.62
1:A:499:GLU:HA	1:I:448:THR:HG23	1.80	0.62
1:B:483:TYR:O	1:B:484:ARG:HG2	1.98	0.62
1:C:483:TYR:O	1:C:484:ARG:HG2	1.98	0.62
1:D:483:TYR:O	1:D:484:ARG:HG2	1.99	0.62
1:E:342:VAL:HG13	1:E:343:PHE:H	1.64	0.62
1:I:329:THR:HG22	1:J:326:ASN:HD21	1.63	0.62
1:A:518:ASN:HB2	1:K:474:SER:HA	127.40	0.62
1:P:361:CYS:SG	1:P:362:LEU:N	2.72	0.62
1:Q:492:SER:O	1:S:458:SER:OG	97.96	0.62
1:P:323:VAL:HG21	1:Q:656:ASN:HD22	1.64	0.62
1:F:323:VAL:HG21	1:X:656:ASN:HD22	137.38	0.62
1:Q:323:VAL:HG21	1:Y:656:ASN:HD22	183.14	0.62
1:5:342:VAL:HG13	1:5:343:PHE:H	1.64	0.62
1:6:474:SER:HA	1:7:518:ASN:HB2	1.80	0.62
1:7:342:VAL:HG13	1:7:343:PHE:H	1.64	0.62
1:D:474:SER:HA	1:N:518:ASN:HB2	1.80	0.62
1:E:518:ASN:HB2	1:F:474:SER:HA	1.80	0.62
1:E:323:VAL:HG21	1:H:656:ASN:HD22	138.61	0.62
1:T:342:VAL:HG13	1:T:343:PHE:H	1.65	0.62
1:W:518:ASN:HB2	1:Y:474:SER:HA	38.24	0.62
1:1:483:TYR:O	1:1:484:ARG:HG2	1.98	0.62
1:4:562:GLU:OE2	1:4:612:TYR:OH	2.12	0.62
1:K:656:ASN:HD22	1:7:323:VAL:HG21	1.64	0.62
1:A:342:VAL:HG13	1:A:343:PHE:H	1.65	0.62
1:G:361:CYS:SG	1:G:362:LEU:N	2.72	0.62
1:A:458:SER:OG	1:G:492:SER:O	2.17	0.62
1:G:518:ASN:HB2	1:H:474:SER:HA	61.15	0.62
1:I:518:ASN:HB2	1:K:474:SER:HA	99.89	0.62
1:J:323:VAL:HG21	1:X:656:ASN:HD22	146.75	0.62
1:J:361:CYS:SG	1:J:362:LEU:N	2.72	0.62
1:J:416:GLU:HG2	1:J:417:ASP:N	2.15	0.62
1:N:342:VAL:HG13	1:N:343:PHE:H	1.64	0.62
1:N:625:ASP:OD1	1:N:625:ASP:N	2.23	0.62
1:Q:342:VAL:HG13	1:Q:343:PHE:H	1.65	0.62
1:C:656:ASN:HD22	1:S:323:VAL:HG21	115.74	0.62
1:S:342:VAL:HG13	1:S:343:PHE:H	1.64	0.62
1:H:458:SER:OG	1:W:492:SER:O	2.16	0.62
1:W:492:SER:O	1:Y:458:SER:OG	55.58	0.62
1:Z:656:ASN:HD22	1:4:323:VAL:HG21	113.42	0.62
1:3:416:GLU:HG2	1:3:417:ASP:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:323:VAL:HG21	1:6:656:ASN:HD22	191.28	0.62
1:A:416:GLU:HG2	1:A:417:ASP:N	2.15	0.62
1:A:656:ASN:HD22	1:B:323:VAL:HG21	1.65	0.62
1:E:483:TYR:O	1:E:484:ARG:HG2	1.98	0.62
1:F:416:GLU:HG2	1:F:417:ASP:N	2.15	0.62
1:F:656:ASN:HD22	1:R:323:VAL:HG21	1.64	0.62
1:J:342:VAL:HG13	1:J:343:PHE:H	1.65	0.62
1:K:416:GLU:HG2	1:K:417:ASP:N	2.15	0.62
1:O:291:PHE:O	1:O:292:SER:OG	2.09	0.62
1:O:416:GLU:HG2	1:O:417:ASP:N	2.15	0.62
1:N:458:SER:OG	1:O:492:SER:O	73.94	0.62
1:R:342:VAL:HG13	1:R:343:PHE:H	1.65	0.62
1:V:416:GLU:HG2	1:V:417:ASP:N	2.15	0.62
1:X:470:ILE:O	1:X:472:ASP:N	2.29	0.62
1:Y:416:GLU:HG2	1:Y:417:ASP:N	2.15	0.62
1:3:492:SER:O	1:4:458:SER:OG	2.16	0.62
1:6:342:VAL:HG13	1:6:343:PHE:H	1.64	0.62
1:B:710:VAL:HG23	1:B:711:ASP:H	1.63	0.62
1:D:416:GLU:HG2	1:D:417:ASP:N	2.15	0.62
1:F:342:VAL:HG13	1:F:343:PHE:H	1.65	0.62
1:F:492:SER:O	1:G:458:SER:OG	97.95	0.62
1:G:342:VAL:HG13	1:G:343:PHE:H	1.65	0.62
1:I:474:SER:HA	1:J:518:ASN:HB2	79.28	0.62
1:L:297:GLN:HA	1:L:300:ILE:HG22	1.82	0.62
1:L:594:ASP:CG	1:L:595:VAL:H	2.03	0.62
1:L:656:ASN:HD22	1:N:323:VAL:HG21	138.62	0.62
1:M:342:VAL:HG13	1:M:343:PHE:H	1.64	0.62
1:M:361:CYS:SG	1:M:362:LEU:N	2.72	0.62
1:R:458:SER:OG	1:S:492:SER:O	2.16	0.62
1:U:342:VAL:HG13	1:U:343:PHE:H	1.64	0.62
1:K:656:ASN:HD22	1:W:323:VAL:HG21	198.54	0.62
1:Z:341:GLN:HG2	1:Z:402:MET:HG2	1.82	0.62
1:1:291:PHE:O	1:1:292:SER:OG	2.09	0.62
1:2:483:TYR:O	1:2:484:ARG:HG2	1.98	0.62
1:Z:474:SER:HA	1:4:518:ASN:HB2	1.80	0.62
1:5:483:TYR:O	1:5:484:ARG:HG2	1.98	0.62
1:C:342:VAL:HG13	1:C:343:PHE:H	1.65	0.62
1:D:342:VAL:HG13	1:D:343:PHE:H	1.64	0.62
1:D:656:ASN:HD22	1:E:323:VAL:HG21	1.65	0.62
1:I:297:GLN:HA	1:I:300:ILE:HG22	1.82	0.62
1:K:297:GLN:HA	1:K:300:ILE:HG22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:341:GLN:HG2	1:L:402:MET:HG2	1.82	0.62
1:P:342:VAL:HG13	1:P:343:PHE:H	1.65	0.62
1:Q:416:GLU:HG2	1:Q:417:ASP:N	2.15	0.62
1:Q:458:SER:OG	1:R:492:SER:O	73.94	0.62
1:R:518:ASN:HB2	1:U:474:SER:HA	1.81	0.62
1:V:656:ASN:HD22	1:W:323:VAL:HG21	1.64	0.62
1:W:416:GLU:HG2	1:W:417:ASP:N	2.15	0.62
1:E:474:SER:HA	1:X:518:ASN:HB2	148.55	0.62
1:Z:297:GLN:HA	1:Z:300:ILE:HG22	1.82	0.62
1:1:342:VAL:HG13	1:1:343:PHE:H	1.64	0.62
1:3:291:PHE:O	1:3:292:SER:OG	2.09	0.62
1:4:342:VAL:HG13	1:4:343:PHE:H	1.64	0.62
1:4:341:GLN:HG2	1:4:402:MET:HG2	1.82	0.62
1:4:594:ASP:CG	1:4:595:VAL:H	2.03	0.62
1:5:518:ASN:HB2	1:7:474:SER:HA	1.81	0.62
1:5:659:THR:HG22	1:8:250:PRO:HB2	1.82	0.62
1:D:297:GLN:HA	1:D:300:ILE:HG22	1.82	0.62
1:G:297:GLN:HA	1:G:300:ILE:HG22	1.82	0.62
1:H:297:GLN:HA	1:H:300:ILE:HG22	1.82	0.62
1:H:518:ASN:HB2	1:Y:474:SER:HA	1.81	0.62
1:B:701:THR:OG1	1:I:698:ILE:O	2.15	0.62
1:G:656:ASN:HD22	1:K:323:VAL:HG21	190.37	0.62
1:K:492:SER:O	1:8:458:SER:OG	2.16	0.62
1:L:342:VAL:HG13	1:L:343:PHE:H	1.65	0.62
1:L:416:GLU:HG2	1:L:417:ASP:N	2.15	0.62
1:N:341:GLN:HG2	1:N:402:MET:HG2	1.82	0.62
1:N:594:ASP:CG	1:N:595:VAL:H	2.03	0.62
1:R:416:GLU:HG2	1:R:417:ASP:N	2.15	0.62
1:U:656:ASN:HD22	1:5:323:VAL:HG21	207.39	0.62
1:V:323:VAL:HG21	1:W:656:ASN:HD22	30.09	0.62
1:V:361:CYS:SG	1:V:362:LEU:N	2.72	0.62
1:W:341:GLN:HG2	1:W:402:MET:HG2	1.82	0.62
1:X:594:ASP:CG	1:X:595:VAL:H	2.03	0.62
1:Y:342:VAL:HG13	1:Y:343:PHE:H	1.65	0.62
1:Y:710:VAL:HG23	1:Y:711:ASP:H	1.63	0.62
1:Z:342:VAL:HG13	1:Z:343:PHE:H	1.65	0.62
1:Z:594:ASP:CG	1:Z:595:VAL:H	2.03	0.62
1:1:594:ASP:CG	1:1:595:VAL:H	2.03	0.62
1:2:342:VAL:HG13	1:2:343:PHE:H	1.65	0.62
1:2:710:VAL:HG23	1:2:711:ASP:H	1.63	0.62
1:5:341:GLN:HG2	1:5:402:MET:HG2	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:341:GLN:HG2	1:7:402:MET:HG2	1.82	0.62
1:A:594:ASP:CG	1:A:595:VAL:H	2.03	0.62
1:C:361:CYS:SG	1:C:362:LEU:N	2.72	0.62
1:C:594:ASP:CG	1:C:595:VAL:H	2.03	0.62
1:D:492:SER:O	1:P:458:SER:OG	2.16	0.62
1:E:297:GLN:HA	1:E:300:ILE:HG22	1.82	0.62
1:E:341:GLN:HG2	1:E:402:MET:HG2	1.82	0.62
1:F:523:MET:HG3	1:F:524:ALA:HB2	1.82	0.62
1:H:323:VAL:HG21	1:I:656:ASN:HD22	1.66	0.62
1:H:416:GLU:HG2	1:H:417:ASP:N	2.15	0.62
1:I:594:ASP:CG	1:I:595:VAL:H	2.03	0.62
1:J:523:MET:HG3	1:J:524:ALA:HB2	1.82	0.62
1:Q:341:GLN:HG2	1:Q:402:MET:HG2	1.82	0.62
1:Q:633:LEU:HB2	1:S:476:ASN:HA	85.24	0.62
1:R:341:GLN:HG2	1:R:402:MET:HG2	1.82	0.62
1:Q:323:VAL:HG21	1:S:656:ASN:HD22	1.64	0.62
1:V:710:VAL:HG23	1:V:711:ASP:H	1.63	0.62
1:W:342:VAL:HG13	1:W:343:PHE:H	1.64	0.62
1:X:341:GLN:HG2	1:X:402:MET:HG2	1.82	0.62
1:W:458:SER:OG	1:Y:492:SER:O	2.16	0.62
1:Z:416:GLU:HG2	1:Z:417:ASP:N	2.15	0.62
1:1:341:GLN:HG2	1:1:402:MET:HG2	1.82	0.62
1:Z:474:SER:HA	1:1:518:ASN:HB2	91.78	0.62
1:2:297:GLN:HA	1:2:300:ILE:HG22	1.82	0.62
1:4:297:GLN:HA	1:4:300:ILE:HG22	1.82	0.62
1:7:625:ASP:OD1	1:7:625:ASP:N	2.23	0.62
1:B:416:GLU:HG2	1:B:417:ASP:N	2.15	0.62
1:D:656:ASN:HD22	1:S:323:VAL:HG21	112.38	0.62
1:F:594:ASP:CG	1:F:595:VAL:H	2.03	0.62
1:G:474:SER:HA	1:I:518:ASN:HB2	1.80	0.62
1:H:656:ASN:HD22	1:Z:323:VAL:HG21	1.64	0.62
1:I:361:CYS:SG	1:I:362:LEU:N	2.72	0.62
1:J:594:ASP:CG	1:J:595:VAL:H	2.03	0.62
1:K:342:VAL:HG13	1:K:343:PHE:H	1.65	0.62
1:J:474:SER:HA	1:K:518:ASN:HB2	61.16	0.62
1:N:297:GLN:HA	1:N:300:ILE:HG22	1.82	0.62
1:M:323:VAL:HG21	1:N:656:ASN:HD22	1.64	0.62
1:O:476:ASN:HA	1:P:633:LEU:HB2	75.29	0.62
1:Q:474:SER:HA	1:R:518:ASN:HB2	61.16	0.62
1:E:474:SER:HA	1:Q:518:ASN:HB2	1.81	0.62
1:S:297:GLN:HA	1:S:300:ILE:HG22	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:250:PRO:HB2	1:S:659:THR:HG22	127.69	0.62
1:T:341:GLN:HG2	1:T:402:MET:HG2	1.82	0.62
1:T:416:GLU:HG2	1:T:417:ASP:N	2.15	0.62
1:Y:341:GLN:HG2	1:Y:402:MET:HG2	1.82	0.62
1:3:323:VAL:HG21	1:8:656:ASN:HD22	1.64	0.62
1:5:594:ASP:CG	1:5:595:VAL:H	2.03	0.62
1:7:297:GLN:HA	1:7:300:ILE:HG22	1.82	0.62
1:B:342:VAL:HG13	1:B:343:PHE:H	1.64	0.62
1:D:594:ASP:CG	1:D:595:VAL:H	2.03	0.62
1:F:474:SER:HA	1:H:518:ASN:HB2	136.21	0.62
1:M:656:ASN:HD22	1:N:323:VAL:HG21	30.09	0.62
1:N:416:GLU:HG2	1:N:417:ASP:N	2.15	0.62
1:B:323:VAL:HG21	1:O:656:ASN:HD22	146.74	0.62
1:P:297:GLN:HA	1:P:300:ILE:HG22	1.82	0.62
1:O:323:VAL:HG21	1:P:656:ASN:HD22	1.64	0.62
1:Q:594:ASP:CG	1:Q:595:VAL:H	2.03	0.62
1:R:361:CYS:SG	1:R:362:LEU:N	2.72	0.62
1:R:594:ASP:CG	1:R:595:VAL:H	2.03	0.62
1:S:361:CYS:SG	1:S:362:LEU:N	2.72	0.62
1:T:594:ASP:CG	1:T:595:VAL:H	2.03	0.62
1:E:656:ASN:HD22	1:U:323:VAL:HG21	183.29	0.62
1:T:323:VAL:HG21	1:U:656:ASN:HD22	1.64	0.62
1:W:297:GLN:HA	1:W:300:ILE:HG22	1.82	0.62
1:W:474:SER:HA	1:X:518:ASN:HB2	61.16	0.62
1:W:474:SER:HA	1:Y:518:ASN:HB2	1.81	0.62
1:G:323:VAL:HG21	1:1:656:ASN:HD22	193.07	0.61
1:4:361:CYS:SG	1:4:362:LEU:N	2.72	0.61
1:4:416:GLU:HG2	1:4:417:ASP:N	2.15	0.61
1:8:342:VAL:HG13	1:8:343:PHE:H	1.64	0.61
1:A:297:GLN:HA	1:A:300:ILE:HG22	1.82	0.61
1:C:492:SER:O	1:M:458:SER:OG	2.16	0.61
1:D:341:GLN:HG2	1:D:402:MET:HG2	1.82	0.61
1:G:523:MET:HG3	1:G:524:ALA:HB2	1.82	0.61
1:I:341:GLN:HG2	1:I:402:MET:HG2	1.82	0.61
1:I:523:MET:HG3	1:I:524:ALA:HB2	1.82	0.61
1:A:656:ASN:HD22	1:J:323:VAL:HG21	97.31	0.61
1:J:656:ASN:HD22	1:L:323:VAL:HG21	113.42	0.61
1:K:356:SER:HB2	1:K:358:HIS:CE1	2.35	0.61
1:P:523:MET:HG3	1:P:524:ALA:HB2	1.82	0.61
1:Q:297:GLN:HA	1:Q:300:ILE:HG22	1.82	0.61
1:T:518:ASN:HB2	1:V:474:SER:HA	99.89	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:523:MET:HG3	1:T:524:ALA:HB2	1.82	0.61
1:V:297:GLN:HA	1:V:300:ILE:HG22	1.82	0.61
1:Y:361:CYS:SG	1:Y:362:LEU:N	2.72	0.61
1:Y:323:VAL:HG21	1:4:656:ASN:HD22	1.64	0.61
1:5:361:CYS:SG	1:5:362:LEU:N	2.72	0.61
1:5:458:SER:OG	1:6:492:SER:O	2.16	0.61
1:8:361:CYS:SG	1:8:362:LEU:N	2.72	0.61
1:B:594:ASP:CG	1:B:595:VAL:H	2.03	0.61
1:C:356:SER:HB2	1:C:358:HIS:CE1	2.36	0.61
1:C:341:GLN:HG2	1:C:402:MET:HG2	1.82	0.61
1:C:523:MET:HG3	1:C:524:ALA:HB2	1.82	0.61
1:E:523:MET:HG3	1:E:524:ALA:HB2	1.82	0.61
1:F:297:GLN:HA	1:F:300:ILE:HG22	1.82	0.61
1:F:361:CYS:SG	1:F:362:LEU:N	2.72	0.61
1:F:341:GLN:HG2	1:F:402:MET:HG2	1.82	0.61
1:H:356:SER:HB2	1:H:358:HIS:CE1	2.36	0.61
1:I:323:VAL:HG21	1:T:656:ASN:HD22	200.42	0.61
1:I:356:SER:HB2	1:I:358:HIS:CE1	2.36	0.61
1:K:341:GLN:HG2	1:K:402:MET:HG2	1.82	0.61
1:K:523:MET:HG3	1:K:524:ALA:HB2	1.82	0.61
1:K:594:ASP:CG	1:K:595:VAL:H	2.03	0.61
1:L:523:MET:HG3	1:L:524:ALA:HB2	1.82	0.61
1:M:297:GLN:HA	1:M:300:ILE:HG22	1.82	0.61
1:M:523:MET:HG3	1:M:524:ALA:HB2	1.82	0.61
1:M:594:ASP:CG	1:M:595:VAL:H	2.03	0.61
1:N:356:SER:HB2	1:N:358:HIS:CE1	2.35	0.61
1:P:356:SER:HB2	1:P:358:HIS:CE1	2.36	0.61
1:Q:361:CYS:SG	1:Q:362:LEU:N	2.72	0.61
1:Q:625:ASP:OD1	1:Q:625:ASP:N	2.23	0.61
1:R:356:SER:HB2	1:R:358:HIS:CE1	2.36	0.61
1:T:356:SER:HB2	1:T:358:HIS:CE1	2.36	0.61
1:U:361:CYS:SG	1:U:362:LEU:N	2.72	0.61
1:T:458:SER:OG	1:U:492:SER:O	120.32	0.61
1:V:356:SER:HB2	1:V:358:HIS:CE1	2.36	0.61
1:W:523:MET:HG3	1:W:524:ALA:HB2	1.82	0.61
1:Y:297:GLN:HA	1:Y:300:ILE:HG22	1.82	0.61
1:Y:356:SER:HB2	1:Y:358:HIS:CE1	2.36	0.61
1:Y:594:ASP:CG	1:Y:595:VAL:H	2.03	0.61
1:A:323:VAL:HG21	1:Z:656:ASN:HD22	117.18	0.61
1:2:323:VAL:HG21	1:3:656:ASN:HD22	1.65	0.61
1:6:361:CYS:SG	1:6:362:LEU:N	2.72	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:594:ASP:CG	1:6:595:VAL:H	2.03	0.61
1:G:356:SER:HB2	1:G:358:HIS:CE1	2.36	0.61
1:L:474:SER:HA	1:T:518:ASN:HB2	210.92	0.61
1:Q:523:MET:HG3	1:Q:524:ALA:HB2	1.82	0.61
1:R:523:MET:HG3	1:R:524:ALA:HB2	1.82	0.61
1:T:297:GLN:HA	1:T:300:ILE:HG22	1.82	0.61
1:U:523:MET:HG3	1:U:524:ALA:HB2	1.82	0.61
1:V:656:ASN:HD22	1:1:323:VAL:HG21	188.01	0.61
1:X:342:VAL:HG13	1:X:343:PHE:H	1.64	0.61
1:Z:523:MET:HG3	1:Z:524:ALA:HB2	1.82	0.61
1:1:297:GLN:HA	1:1:300:ILE:HG22	1.82	0.61
1:1:523:MET:HG3	1:1:524:ALA:HB2	1.82	0.61
1:5:356:SER:HB2	1:5:358:HIS:CE1	2.35	0.61
1:5:416:GLU:HG2	1:5:417:ASP:N	2.15	0.61
1:5:470:ILE:O	1:5:472:ASP:N	2.29	0.61
1:6:523:MET:HG3	1:6:524:ALA:HB2	1.82	0.61
1:7:483:TYR:O	1:7:484:ARG:HG2	1.98	0.61
1:8:341:GLN:HG2	1:8:402:MET:HG2	1.82	0.61
1:A:356:SER:HB2	1:A:358:HIS:CE1	2.35	0.61
1:A:487:ARG:O	1:I:584:GLN:NE2	2.19	0.61
1:B:356:SER:HB2	1:B:358:HIS:CE1	2.36	0.61
1:C:416:GLU:HG2	1:C:417:ASP:N	2.15	0.61
1:D:356:SER:HB2	1:D:358:HIS:CE1	2.36	0.61
1:H:492:SER:O	1:Y:458:SER:OG	2.17	0.61
1:I:250:PRO:HB2	1:T:659:THR:HG22	196.37	0.61
1:K:323:VAL:HG21	1:L:656:ASN:HD22	1.64	0.61
1:K:250:PRO:HB2	1:L:659:THR:HG22	1.82	0.61
1:M:474:SER:HA	1:N:518:ASN:HB2	79.29	0.61
1:P:341:GLN:HG2	1:P:402:MET:HG2	1.82	0.61
1:S:523:MET:HG3	1:S:524:ALA:HB2	1.82	0.61
1:U:341:GLN:HG2	1:U:402:MET:HG2	1.82	0.61
1:S:458:SER:OG	1:U:492:SER:O	2.16	0.61
1:V:341:GLN:HG2	1:V:402:MET:HG2	1.82	0.61
1:V:594:ASP:CG	1:V:595:VAL:H	2.03	0.61
1:6:356:SER:HB2	1:6:358:HIS:CE1	2.36	0.61
1:6:341:GLN:HG2	1:6:402:MET:HG2	1.82	0.61
1:6:470:ILE:O	1:6:472:ASP:N	2.29	0.61
1:A:659:THR:HG22	1:J:250:PRO:HB2	82.95	0.61
1:C:659:THR:HG22	1:D:250:PRO:HB2	1.82	0.61
1:D:523:MET:HG3	1:D:524:ALA:HB2	1.82	0.61
1:F:356:SER:HB2	1:F:358:HIS:CE1	2.36	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:342:VAL:HG13	1:I:343:PHE:H	1.65	0.61
1:J:341:GLN:HG2	1:J:402:MET:HG2	1.82	0.61
1:L:356:SER:HB2	1:L:358:HIS:CE1	2.36	0.61
1:M:341:GLN:HG2	1:M:402:MET:HG2	1.82	0.61
1:M:518:ASN:HB2	1:O:474:SER:HA	99.88	0.61
1:O:250:PRO:HB2	1:P:659:THR:HG22	1.83	0.61
1:R:297:GLN:HA	1:R:300:ILE:HG22	1.82	0.61
1:U:297:GLN:HA	1:U:300:ILE:HG22	1.82	0.61
1:E:458:SER:OG	1:X:492:SER:O	160.12	0.61
1:Z:356:SER:HB2	1:Z:358:HIS:CE1	2.35	0.61
1:Z:518:ASN:HB2	1:3:474:SER:HA	1.80	0.61
1:3:297:GLN:HA	1:3:300:ILE:HG22	1.82	0.61
1:A:470:ILE:O	1:A:472:ASP:N	2.29	0.61
1:C:656:ASN:HD22	1:D:323:VAL:HG21	1.64	0.61
1:G:250:PRO:HB2	1:W:659:THR:HG22	1.83	0.61
1:G:341:GLN:HG2	1:G:402:MET:HG2	1.82	0.61
1:H:342:VAL:HG13	1:H:343:PHE:H	1.64	0.61
1:H:523:MET:HG3	1:H:524:ALA:HB2	1.82	0.61
1:H:594:ASP:CG	1:H:595:VAL:H	2.03	0.61
1:J:297:GLN:HA	1:J:300:ILE:HG22	1.82	0.61
1:L:361:CYS:SG	1:L:362:LEU:N	2.72	0.61
1:M:250:PRO:HB2	1:N:659:THR:HG22	1.83	0.61
1:N:470:ILE:O	1:N:472:ASP:N	2.29	0.61
1:P:416:GLU:HG2	1:P:417:ASP:N	2.15	0.61
1:Q:356:SER:HB2	1:Q:358:HIS:CE1	2.36	0.61
1:V:342:VAL:HG13	1:V:343:PHE:H	1.65	0.61
1:U:458:SER:OG	1:V:492:SER:O	73.94	0.61
1:V:523:MET:HG3	1:V:524:ALA:HB2	1.82	0.61
1:W:356:SER:HB2	1:W:358:HIS:CE1	2.35	0.61
1:Y:523:MET:HG3	1:Y:524:ALA:HB2	1.82	0.61
1:1:416:GLU:HG2	1:1:417:ASP:N	2.15	0.61
1:7:356:SER:HB2	1:7:358:HIS:CE1	2.36	0.61
1:8:356:SER:HB2	1:8:358:HIS:CE1	2.35	0.61
1:3:250:PRO:HB2	1:8:659:THR:HG22	1.83	0.61
1:B:297:GLN:HA	1:B:300:ILE:HG22	1.82	0.61
1:B:341:GLN:HG2	1:B:402:MET:HG2	1.82	0.61
1:F:656:ASN:HD22	1:Z:323:VAL:HG21	138.75	0.61
1:G:416:GLU:HG2	1:G:417:ASP:N	2.15	0.61
1:G:594:ASP:CG	1:G:595:VAL:H	2.03	0.61
1:H:288:HIS:NE2	1:H:614:GLN:HB3	2.16	0.61
1:H:659:THR:HG22	1:Z:250:PRO:HB2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:659:THR:HG22	1:L:250:PRO:HB2	90.93	0.61
1:M:356:SER:HB2	1:M:358:HIS:CE1	2.35	0.61
1:O:297:GLN:HA	1:O:300:ILE:HG22	1.82	0.61
1:R:288:HIS:NE2	1:R:614:GLN:HB3	2.16	0.61
1:S:288:HIS:NE2	1:S:614:GLN:HB3	2.16	0.61
1:T:288:HIS:NE2	1:T:614:GLN:HB3	2.16	0.61
1:W:326:ASN:O	1:W:329:THR:OG1	2.19	0.61
1:G:323:VAL:HG21	1:W:656:ASN:HD22	1.65	0.61
1:Z:288:HIS:NE2	1:Z:614:GLN:HB3	2.16	0.61
1:1:448:THR:HG23	1:2:499:GLU:HA	1.83	0.61
1:4:356:SER:HB2	1:4:358:HIS:CE1	2.36	0.61
1:A:323:VAL:HG21	1:E:656:ASN:HD22	1.65	0.61
1:C:458:SER:OG	1:O:492:SER:O	159.49	0.61
1:D:323:VAL:HG21	1:O:656:ASN:HD22	124.49	0.61
1:D:448:THR:HG23	1:L:499:GLU:HA	159.87	0.61
1:E:356:SER:HB2	1:E:358:HIS:CE1	2.36	0.61
1:G:250:PRO:HB2	1:1:659:THR:HG22	189.93	0.61
1:L:288:HIS:NE2	1:L:614:GLN:HB3	2.16	0.61
1:J:458:SER:OG	1:L:492:SER:O	2.16	0.61
1:O:342:VAL:HG13	1:O:343:PHE:H	1.65	0.61
1:O:594:ASP:CG	1:O:595:VAL:H	2.03	0.61
1:Q:499:GLU:HA	1:S:448:THR:HG23	104.74	0.61
1:N:656:ASN:HD22	1:R:323:VAL:HG21	190.37	0.61
1:R:656:ASN:HD22	1:X:323:VAL:HG21	98.12	0.61
1:S:356:SER:HB2	1:S:358:HIS:CE1	2.36	0.61
1:S:341:GLN:HG2	1:S:402:MET:HG2	1.82	0.61
1:J:250:PRO:HB2	1:X:659:THR:HG22	156.47	0.61
1:4:625:ASP:OD1	1:4:625:ASP:N	2.23	0.61
1:B:288:HIS:NE2	1:B:614:GLN:HB3	2.16	0.61
1:B:659:THR:HG22	1:C:250:PRO:HB2	1.83	0.61
1:F:250:PRO:HB2	1:G:659:THR:HG22	1.82	0.61
1:F:323:VAL:HG21	1:G:656:ASN:HD22	1.65	0.61
1:F:492:SER:O	1:Q:458:SER:OG	2.17	0.61
1:H:341:GLN:HG2	1:H:402:MET:HG2	1.82	0.61
1:N:659:THR:HG22	1:R:250:PRO:HB2	187.69	0.61
1:X:288:HIS:NE2	1:X:614:GLN:HB3	2.16	0.61
1:1:356:SER:HB2	1:1:358:HIS:CE1	2.35	0.61
1:2:288:HIS:NE2	1:2:614:GLN:HB3	2.16	0.61
1:U:323:VAL:HG21	1:2:656:ASN:HD22	199.08	0.61
1:3:341:GLN:HG2	1:3:402:MET:HG2	1.82	0.61
1:5:297:GLN:HA	1:5:300:ILE:HG22	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:416:GLU:HG2	1:6:417:ASP:N	2.15	0.61
1:8:416:GLU:HG2	1:8:417:ASP:N	2.15	0.61
1:B:492:SER:O	1:L:458:SER:OG	2.16	0.61
1:D:659:THR:HG22	1:E:250:PRO:HB2	1.83	0.61
1:E:416:GLU:HG2	1:E:417:ASP:N	2.15	0.61
1:I:288:HIS:NE2	1:I:614:GLN:HB3	2.16	0.61
1:J:356:SER:HB2	1:J:358:HIS:CE1	2.36	0.61
1:O:323:VAL:HG21	1:7:656:ASN:HD22	188.82	0.61
1:O:341:GLN:HG2	1:O:402:MET:HG2	1.82	0.61
1:D:499:GLU:HA	1:T:448:THR:HG23	153.99	0.61
1:U:288:HIS:NE2	1:U:614:GLN:HB3	2.16	0.61
1:V:288:HIS:NE2	1:V:614:GLN:HB3	2.16	0.61
1:V:659:THR:HG22	1:1:250:PRO:HB2	179.55	0.61
1:W:288:HIS:NE2	1:W:614:GLN:HB3	2.16	0.61
1:2:356:SER:HB2	1:2:358:HIS:CE1	2.36	0.60
1:K:659:THR:HG22	1:7:250:PRO:HB2	1.83	0.60
1:A:341:GLN:HG2	1:A:402:MET:HG2	1.82	0.60
1:A:448:THR:HG23	1:G:499:GLU:HA	1.83	0.60
1:B:492:SER:O	1:C:458:SER:OG	120.34	0.60
1:D:288:HIS:NE2	1:D:614:GLN:HB3	2.16	0.60
1:E:288:HIS:NE2	1:E:614:GLN:HB3	2.16	0.60
1:E:325:GLN:HE22	1:E:330:THR:HG22	1.66	0.60
1:G:288:HIS:NE2	1:G:614:GLN:HB3	2.16	0.60
1:J:659:THR:HG22	1:L:250:PRO:HB2	107.94	0.60
1:M:288:HIS:NE2	1:M:614:GLN:HB3	2.16	0.60
1:M:659:THR:HG22	1:N:250:PRO:HB2	46.15	0.60
1:P:594:ASP:CG	1:P:595:VAL:H	2.03	0.60
1:Q:288:HIS:NE2	1:Q:614:GLN:HB3	2.16	0.60
1:F:659:THR:HG22	1:R:250:PRO:HB2	1.83	0.60
1:X:250:PRO:HB2	1:Y:659:THR:HG22	1.82	0.60
1:X:297:GLN:HA	1:X:300:ILE:HG22	1.82	0.60
1:X:356:SER:HB2	1:X:358:HIS:CE1	2.35	0.60
1:Y:288:HIS:NE2	1:Y:614:GLN:HB3	2.16	0.60
1:X:323:VAL:HG21	1:Y:656:ASN:HD22	1.64	0.60
1:3:633:LEU:HB2	1:4:476:ASN:HA	1.83	0.60
1:5:325:GLN:HE22	1:5:330:THR:HG22	1.67	0.60
1:T:250:PRO:HB2	1:6:659:THR:HG22	182.11	0.60
1:7:523:MET:HG3	1:7:524:ALA:HB2	1.82	0.60
1:A:250:PRO:HB2	1:Z:659:THR:HG22	108.76	0.60
1:A:288:HIS:NE2	1:A:614:GLN:HB3	2.16	0.60
1:C:272:TYR:HB2	1:C:378:LEU:HD22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:272:TYR:HB2	1:L:378:LEU:HD22	1.84	0.60
1:O:288:HIS:NE2	1:O:614:GLN:HB3	2.16	0.60
1:R:659:THR:HG22	1:X:250:PRO:HB2	82.33	0.60
1:U:356:SER:HB2	1:U:358:HIS:CE1	2.35	0.60
1:U:272:TYR:HB2	1:U:378:LEU:HD22	1.84	0.60
1:5:523:MET:HG3	1:5:524:ALA:HB2	1.82	0.60
1:7:325:GLN:HE22	1:7:330:THR:HG22	1.67	0.60
1:O:250:PRO:HB2	1:7:659:THR:HG22	178.91	0.60
1:8:523:MET:HG3	1:8:524:ALA:HB2	1.82	0.60
1:E:594:ASP:CG	1:E:595:VAL:H	2.03	0.60
1:H:272:TYR:HB2	1:H:378:LEU:HD22	1.84	0.60
1:K:272:TYR:HB2	1:K:378:LEU:HD22	1.84	0.60
1:K:470:ILE:O	1:K:472:ASP:N	2.29	0.60
1:L:325:GLN:HE22	1:L:330:THR:HG22	1.67	0.60
1:N:476:ASN:HA	1:O:633:LEU:HB2	61.69	0.60
1:P:288:HIS:NE2	1:P:614:GLN:HB3	2.16	0.60
1:Q:325:GLN:HE22	1:Q:330:THR:HG22	1.67	0.60
1:S:272:TYR:HB2	1:S:378:LEU:HD22	1.84	0.60
1:W:325:GLN:HE22	1:W:330:THR:HG22	1.67	0.60
1:X:523:MET:HG3	1:X:524:ALA:HB2	1.82	0.60
1:Z:325:GLN:HE22	1:Z:330:THR:HG22	1.67	0.60
1:4:325:GLN:HE22	1:4:330:THR:HG22	1.67	0.60
1:4:523:MET:HG3	1:4:524:ALA:HB2	1.82	0.60
1:6:297:GLN:HA	1:6:300:ILE:HG22	1.82	0.60
1:7:272:TYR:HB2	1:7:378:LEU:HD22	1.84	0.60
1:8:325:GLN:HE22	1:8:330:THR:HG22	1.67	0.60
1:C:297:GLN:HA	1:C:300:ILE:HG22	1.82	0.60
1:E:272:TYR:HB2	1:E:378:LEU:HD22	1.84	0.60
1:G:492:SER:O	1:H:458:SER:OG	73.93	0.60
1:E:250:PRO:HB2	1:H:659:THR:HG22	143.19	0.60
1:I:416:GLU:HG2	1:I:417:ASP:N	2.15	0.60
1:N:288:HIS:NE2	1:N:614:GLN:HB3	2.16	0.60
1:N:523:MET:HG3	1:N:524:ALA:HB2	1.82	0.60
1:O:356:SER:HB2	1:O:358:HIS:CE1	2.36	0.60
1:R:448:THR:HG23	1:S:499:GLU:HA	1.84	0.60
1:V:272:TYR:HB2	1:V:378:LEU:HD22	1.84	0.60
1:W:272:TYR:HB2	1:W:378:LEU:HD22	1.84	0.60
1:T:659:THR:HG22	1:Y:250:PRO:HB2	132.82	0.60
1:2:594:ASP:CG	1:2:595:VAL:H	2.03	0.60
1:3:288:HIS:NE2	1:3:614:GLN:HB3	2.16	0.60
1:A:325:GLN:HE22	1:A:330:THR:HG22	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:523:MET:HG3	1:A:524:ALA:HB2	1.82	0.60
1:B:250:PRO:HB2	1:O:659:THR:HG22	156.47	0.60
1:F:250:PRO:HB2	1:X:659:THR:HG22	146.21	0.60
1:J:288:HIS:NE2	1:J:614:GLN:HB3	2.16	0.60
1:K:288:HIS:NE2	1:K:614:GLN:HB3	2.16	0.60
1:N:325:GLN:HE22	1:N:330:THR:HG22	1.67	0.60
1:O:272:TYR:HB2	1:O:378:LEU:HD22	1.84	0.60
1:C:448:THR:HG23	1:O:499:GLU:HA	168.01	0.60
1:Q:272:TYR:HB2	1:Q:378:LEU:HD22	1.84	0.60
1:R:659:THR:HG22	1:V:250:PRO:HB2	1.82	0.60
1:U:250:PRO:HB2	1:2:659:THR:HG22	199.96	0.60
1:V:659:THR:HG22	1:W:250:PRO:HB2	1.82	0.60
1:W:594:ASP:CG	1:W:595:VAL:H	2.03	0.60
1:X:325:GLN:HE22	1:X:330:THR:HG22	1.67	0.60
1:Y:272:TYR:HB2	1:Y:378:LEU:HD22	1.84	0.60
1:F:659:THR:HG22	1:Z:250:PRO:HB2	145.40	0.60
1:2:341:GLN:HG2	1:2:402:MET:HG2	1.82	0.60
1:3:342:VAL:HG13	1:3:343:PHE:H	1.65	0.60
1:3:356:SER:HB2	1:3:358:HIS:CE1	2.35	0.60
1:4:470:ILE:O	1:4:472:ASP:N	2.29	0.60
1:7:416:GLU:HG2	1:7:417:ASP:N	2.15	0.60
1:B:325:GLN:HE22	1:B:330:THR:HG22	1.67	0.60
1:C:325:GLN:HE22	1:C:330:THR:HG22	1.67	0.60
1:B:701:THR:OG1	1:C:698:ILE:O	71.44	0.60
1:D:250:PRO:HB2	1:O:659:THR:HG22	121.28	0.60
1:D:492:SER:O	1:T:458:SER:OG	159.79	0.60
1:A:250:PRO:HB2	1:E:659:THR:HG22	1.83	0.60
1:H:325:GLN:HE22	1:H:330:THR:HG22	1.67	0.60
1:D:458:SER:OG	1:L:492:SER:O	159.81	0.60
1:M:325:GLN:HE22	1:M:330:THR:HG22	1.67	0.60
1:O:325:GLN:HE22	1:O:330:THR:HG22	1.67	0.60
1:O:523:MET:HG3	1:O:524:ALA:HB2	1.82	0.60
1:P:325:GLN:HE22	1:P:330:THR:HG22	1.67	0.60
1:Q:250:PRO:HB2	1:Y:659:THR:HG22	174.36	0.60
1:S:325:GLN:HE22	1:S:330:THR:HG22	1.67	0.60
1:E:659:THR:HG22	1:U:250:PRO:HB2	174.47	0.60
1:U:325:GLN:HE22	1:U:330:THR:HG22	1.67	0.60
1:V:325:GLN:HE22	1:V:330:THR:HG22	1.67	0.60
1:3:523:MET:HG3	1:3:524:ALA:HB2	1.82	0.60
1:8:297:GLN:HA	1:8:300:ILE:HG22	1.82	0.60
1:A:272:TYR:HB2	1:A:378:LEU:HD22	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:633:LEU:HB2	1:G:476:ASN:HA	85.24	0.60
1:I:492:SER:O	1:K:458:SER:OG	121.38	0.60
1:J:325:GLN:HE22	1:J:330:THR:HG22	1.67	0.60
1:J:476:ASN:HA	1:L:633:LEU:HB2	1.84	0.60
1:B:476:ASN:HA	1:J:633:LEU:HB2	1.83	0.60
1:M:416:GLU:HG2	1:M:417:ASP:N	2.15	0.60
1:R:625:ASP:N	1:R:625:ASP:OD1	2.23	0.60
1:Q:476:ASN:HA	1:R:633:LEU:HB2	61.69	0.60
1:D:633:LEU:HB2	1:T:476:ASN:HA	126.13	0.60
1:U:476:ASN:HA	1:V:633:LEU:HB2	61.69	0.60
1:S:476:ASN:HA	1:U:633:LEU:HB2	1.84	0.60
1:2:523:MET:HG3	1:2:524:ALA:HB2	1.82	0.60
1:Z:458:SER:OG	1:4:492:SER:O	2.16	0.60
1:5:288:HIS:NE2	1:5:614:GLN:HB3	2.16	0.60
1:8:416:GLU:N	1:8:416:GLU:OE1	2.28	0.60
1:K:633:LEU:HB2	1:8:476:ASN:HA	1.83	0.60
1:A:659:THR:HG22	1:B:250:PRO:HB2	1.82	0.60
1:B:476:ASN:HA	1:M:633:LEU:HB2	109.20	0.60
1:C:633:LEU:HB2	1:M:476:ASN:HA	1.84	0.60
1:G:659:THR:HG22	1:K:250:PRO:HB2	187.69	0.60
1:H:499:GLU:HA	1:Y:448:THR:HG23	1.84	0.60
1:K:659:THR:HG22	1:W:250:PRO:HB2	194.95	0.60
1:T:470:ILE:O	1:T:472:ASP:N	2.29	0.60
1:V:250:PRO:HB2	1:W:659:THR:HG22	46.15	0.60
1:3:272:TYR:HB2	1:3:378:LEU:HD22	1.84	0.60
1:3:499:GLU:HA	1:4:448:THR:HG23	1.84	0.60
1:3:594:ASP:CG	1:3:595:VAL:H	2.03	0.60
1:7:594:ASP:CG	1:7:595:VAL:H	2.03	0.60
1:8:288:HIS:NE2	1:8:614:GLN:HB3	2.16	0.60
1:C:659:THR:HG22	1:S:250:PRO:HB2	109.26	0.60
1:D:272:TYR:HB2	1:D:378:LEU:HD22	1.84	0.60
1:E:620:LYS:HD3	1:E:642:PRO:HD3	1.84	0.60
1:G:325:GLN:HE22	1:G:330:THR:HG22	1.67	0.60
1:L:659:THR:HG22	1:N:250:PRO:HB2	143.20	0.60
1:D:633:LEU:HB2	1:P:476:ASN:HA	1.83	0.60
1:R:272:TYR:HB2	1:R:378:LEU:HD22	1.84	0.60
1:S:594:ASP:CG	1:S:595:VAL:H	2.03	0.60
1:T:250:PRO:HB2	1:U:659:THR:HG22	1.83	0.60
1:1:288:HIS:NE2	1:1:614:GLN:HB3	2.16	0.60
1:1:327:ASP:OD1	1:1:328:GLY:N	2.35	0.60
1:1:470:ILE:O	1:1:472:ASP:N	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:272:TYR:HB2	1:2:378:LEU:HD22	1.84	0.60
1:3:325:GLN:HE22	1:3:330:THR:HG22	1.66	0.60
1:4:288:HIS:NE2	1:4:614:GLN:HB3	2.16	0.60
1:5:272:TYR:HB2	1:5:378:LEU:HD22	1.84	0.60
1:5:620:LYS:HD3	1:5:642:PRO:HD3	1.84	0.60
1:6:288:HIS:NE2	1:6:614:GLN:HB3	2.16	0.60
1:8:594:ASP:CG	1:8:595:VAL:H	2.03	0.60
1:A:633:LEU:HB2	1:K:476:ASN:HA	122.24	0.60
1:C:288:HIS:NE2	1:C:614:GLN:HB3	2.16	0.60
1:E:476:ASN:HA	1:X:633:LEU:HB2	137.70	0.60
1:F:288:HIS:NE2	1:F:614:GLN:HB3	2.16	0.60
1:I:272:TYR:HB2	1:I:378:LEU:HD22	1.83	0.60
1:K:291:PHE:O	1:K:292:SER:OG	2.09	0.60
1:C:323:VAL:HG21	1:M:656:ASN:HD22	113.42	0.60
1:N:327:ASP:OD1	1:N:328:GLY:N	2.35	0.60
1:D:458:SER:OG	1:N:492:SER:O	2.16	0.60
1:D:476:ASN:HA	1:N:633:LEU:HB2	1.84	0.60
1:E:458:SER:OG	1:Q:492:SER:O	2.16	0.60
1:Q:620:LYS:HD3	1:Q:642:PRO:HD3	1.84	0.60
1:V:327:ASP:OD1	1:V:328:GLY:N	2.35	0.60
1:Y:325:GLN:HE22	1:Y:330:THR:HG22	1.67	0.60
1:H:633:LEU:HB2	1:Y:476:ASN:HA	1.84	0.60
1:X:458:SER:OG	1:Y:492:SER:O	120.33	0.60
1:Z:448:THR:HG23	1:4:499:GLU:HA	1.84	0.59
1:Y:250:PRO:HB2	1:4:659:THR:HG22	1.83	0.59
1:B:448:THR:HG23	1:J:499:GLU:HA	1.84	0.59
1:E:633:LEU:HB2	1:V:476:ASN:HA	144.71	0.59
1:H:327:ASP:OD1	1:H:328:GLY:N	2.35	0.59
1:K:325:GLN:HE22	1:K:330:THR:HG22	1.67	0.59
1:K:327:ASP:OD1	1:K:328:GLY:N	2.35	0.59
1:R:476:ASN:HA	1:S:633:LEU:HB2	1.84	0.59
1:S:620:LYS:HD3	1:S:642:PRO:HD3	1.84	0.59
1:T:327:ASP:OD1	1:T:328:GLY:N	2.35	0.59
1:U:416:GLU:HG2	1:U:417:ASP:N	2.15	0.59
1:W:620:LYS:HD3	1:W:642:PRO:HD3	1.84	0.59
1:X:416:GLU:HG2	1:X:417:ASP:N	2.15	0.59
1:W:476:ASN:HA	1:X:633:LEU:HB2	61.69	0.59
1:Y:327:ASP:OD1	1:Y:328:GLY:N	2.35	0.59
1:W:633:LEU:HB2	1:Y:476:ASN:HA	30.07	0.59
1:2:327:ASP:OD1	1:2:328:GLY:N	2.35	0.59
1:4:327:ASP:OD1	1:4:328:GLY:N	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:492:SER:O	1:7:458:SER:OG	2.16	0.59
1:7:288:HIS:NE2	1:7:614:GLN:HB3	2.16	0.59
1:A:458:SER:OG	1:8:492:SER:O	190.67	0.59
1:B:523:MET:HG3	1:B:524:ALA:HB2	1.82	0.59
1:C:257:TYR:OH	1:C:394:CYS:O	2.21	0.59
1:C:327:ASP:OD1	1:C:328:GLY:N	2.35	0.59
1:C:476:ASN:HA	1:O:633:LEU:HB2	137.78	0.59
1:D:327:ASP:OD1	1:D:328:GLY:N	2.35	0.59
1:F:499:GLU:HA	1:G:448:THR:HG23	104.74	0.59
1:G:272:TYR:HB2	1:G:378:LEU:HD22	1.84	0.59
1:G:257:TYR:OH	1:G:394:CYS:O	2.21	0.59
1:G:416:GLU:OE1	1:G:416:GLU:N	2.28	0.59
1:I:327:ASP:OD1	1:I:328:GLY:N	2.35	0.59
1:I:499:GLU:HA	1:K:448:THR:HG23	118.02	0.59
1:M:291:PHE:O	1:M:292:SER:OG	2.09	0.59
1:B:448:THR:HG23	1:M:499:GLU:HA	141.13	0.59
1:M:448:THR:HG23	1:N:499:GLU:HA	99.54	0.59
1:P:257:TYR:OH	1:P:394:CYS:O	2.21	0.59
1:P:416:GLU:OE1	1:P:416:GLU:N	2.28	0.59
1:N:458:SER:OG	1:P:492:SER:O	2.16	0.59
1:Q:250:PRO:HB2	1:S:659:THR:HG22	1.83	0.59
1:U:594:ASP:CG	1:U:595:VAL:H	2.03	0.59
1:U:620:LYS:HD3	1:U:642:PRO:HD3	1.84	0.59
1:W:458:SER:OG	1:X:492:SER:O	73.94	0.59
1:Z:327:ASP:OD1	1:Z:328:GLY:N	2.35	0.59
1:Z:620:LYS:HD3	1:Z:642:PRO:HD3	1.84	0.59
1:1:272:TYR:HB2	1:1:378:LEU:HD22	1.84	0.59
1:U:659:THR:HG22	1:5:250:PRO:HB2	207.24	0.59
1:7:327:ASP:OD1	1:7:328:GLY:N	2.35	0.59
1:E:327:ASP:OD1	1:E:328:GLY:N	2.35	0.59
1:E:257:TYR:OH	1:E:394:CYS:O	2.21	0.59
1:F:327:ASP:OD1	1:F:328:GLY:N	2.35	0.59
1:I:257:TYR:OH	1:I:394:CYS:O	2.21	0.59
1:I:476:ASN:HA	1:J:633:LEU:HB2	75.28	0.59
1:J:449:ASN:O	1:J:450:THR:OG1	2.20	0.59
1:L:327:ASP:OD1	1:L:328:GLY:N	2.35	0.59
1:M:449:ASN:O	1:M:450:THR:OG1	2.20	0.59
1:N:272:TYR:HB2	1:N:378:LEU:HD22	1.84	0.59
1:O:327:ASP:OD1	1:O:328:GLY:N	2.35	0.59
1:R:325:GLN:HE22	1:R:330:THR:HG22	1.67	0.59
1:S:416:GLU:HG2	1:S:417:ASP:N	2.15	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:327:ASP:OD1	1:X:328:GLY:N	2.35	0.59
1:W:476:ASN:HA	1:Y:633:LEU:HB2	1.84	0.59
1:Z:633:LEU:HB2	1:2:476:ASN:HA	88.31	0.59
1:3:257:TYR:OH	1:3:394:CYS:O	2.21	0.59
1:6:327:ASP:OD1	1:6:328:GLY:N	2.35	0.59
1:7:620:LYS:HD3	1:7:642:PRO:HD3	1.84	0.59
1:A:327:ASP:OD1	1:A:328:GLY:N	2.35	0.59
1:A:492:SER:O	1:K:458:SER:OG	168.38	0.59
1:B:272:TYR:HB2	1:B:378:LEU:HD22	1.84	0.59
1:B:416:GLU:OE1	1:B:416:GLU:N	2.28	0.59
1:D:448:THR:HG23	1:N:499:GLU:HA	1.85	0.59
1:F:325:GLN:HE22	1:F:330:THR:HG22	1.67	0.59
1:G:327:ASP:OD1	1:G:328:GLY:N	2.35	0.59
1:G:499:GLU:HA	1:H:448:THR:HG23	73.72	0.59
1:A:499:GLU:HA	1:K:448:THR:HG23	152.83	0.59
1:L:620:LYS:HD3	1:L:642:PRO:HD3	1.84	0.59
1:D:476:ASN:HA	1:L:633:LEU:HB2	128.92	0.59
1:M:492:SER:O	1:O:458:SER:OG	121.39	0.59
1:N:257:TYR:OH	1:N:394:CYS:O	2.21	0.59
1:P:327:ASP:OD1	1:P:328:GLY:N	2.35	0.59
1:T:272:TYR:HB2	1:T:378:LEU:HD22	1.84	0.59
1:V:449:ASN:O	1:V:450:THR:OG1	2.20	0.59
1:H:448:THR:HG23	1:W:499:GLU:HA	1.84	0.59
1:E:448:THR:HG23	1:X:499:GLU:HA	167.12	0.59
1:Z:492:SER:O	1:3:458:SER:OG	2.16	0.59
1:Z:476:ASN:HA	1:4:633:LEU:HB2	1.84	0.59
1:6:325:GLN:HE22	1:6:330:THR:HG22	1.67	0.59
1:7:257:TYR:OH	1:7:394:CYS:O	2.21	0.59
1:D:416:GLU:N	1:D:416:GLU:OE1	2.28	0.59
1:D:620:LYS:HD3	1:D:642:PRO:HD3	1.84	0.59
1:I:325:GLN:HE22	1:I:330:THR:HG22	1.67	0.59
1:J:327:ASP:OD1	1:J:328:GLY:N	2.35	0.59
1:M:620:LYS:HD3	1:M:642:PRO:HD3	1.84	0.59
1:O:257:TYR:OH	1:O:394:CYS:O	2.21	0.59
1:S:327:ASP:OD1	1:S:328:GLY:N	2.35	0.59
1:T:476:ASN:HA	1:U:633:LEU:HB2	75.29	0.59
1:V:620:LYS:HD3	1:V:642:PRO:HD3	1.84	0.59
1:2:620:LYS:HD3	1:2:642:PRO:HD3	1.84	0.59
1:3:620:LYS:HD3	1:3:642:PRO:HD3	1.84	0.59
1:A:476:ASN:HA	1:G:633:LEU:HB2	1.84	0.59
1:C:250:PRO:HB2	1:M:659:THR:HG22	107.94	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:620:LYS:HD3	1:C:642:PRO:HD3	1.84	0.59
1:F:257:TYR:OH	1:F:394:CYS:O	2.21	0.59
1:F:476:ASN:HA	1:H:633:LEU:HB2	128.91	0.59
1:G:633:LEU:HB2	1:H:476:ASN:HA	61.69	0.59
1:H:476:ASN:HA	1:W:633:LEU:HB2	1.84	0.59
1:J:272:TYR:HB2	1:J:378:LEU:HD22	1.84	0.59
1:J:448:THR:HG23	1:K:499:GLU:HA	73.74	0.59
1:M:327:ASP:OD1	1:M:328:GLY:N	2.35	0.59
1:O:620:LYS:HD3	1:O:642:PRO:HD3	1.84	0.59
1:F:499:GLU:HA	1:Q:448:THR:HG23	1.84	0.59
1:T:257:TYR:OH	1:T:394:CYS:O	2.21	0.59
1:V:492:SER:O	1:X:458:SER:OG	2.16	0.59
1:X:476:ASN:HA	1:Y:633:LEU:HB2	75.30	0.59
1:Y:620:LYS:HD3	1:Y:642:PRO:HD3	1.84	0.59
1:1:476:ASN:HA	1:2:633:LEU:HB2	1.84	0.59
1:1:458:SER:OG	1:2:492:SER:O	2.17	0.59
1:D:659:THR:HG22	1:S:250:PRO:HB2	106.21	0.59
1:F:448:THR:HG23	1:H:499:GLU:HA	159.85	0.59
1:J:476:ASN:HA	1:K:633:LEU:HB2	61.69	0.59
1:M:257:TYR:OH	1:M:394:CYS:O	2.21	0.59
1:M:272:TYR:HB2	1:M:378:LEU:HD22	1.84	0.59
1:N:448:THR:HG23	1:O:499:GLU:HA	73.73	0.59
1:N:476:ASN:HA	1:P:633:LEU:HB2	1.83	0.59
1:M:458:SER:OG	1:N:492:SER:O	120.33	0.59
1:R:257:TYR:OH	1:R:394:CYS:O	2.21	0.59
1:R:327:ASP:OD1	1:R:328:GLY:N	2.35	0.59
1:S:448:THR:HG23	1:U:499:GLU:HA	1.85	0.59
1:T:325:GLN:HE22	1:T:330:THR:HG22	1.67	0.59
1:U:327:ASP:OD1	1:U:328:GLY:N	2.35	0.59
1:U:429:SER:OG	1:U:431:ASP:OD1	2.18	0.59
1:2:416:GLU:HG2	1:2:417:ASP:N	2.15	0.59
1:6:272:TYR:HB2	1:6:378:LEU:HD22	1.83	0.59
1:6:620:LYS:HD3	1:6:642:PRO:HD3	1.84	0.59
1:D:257:TYR:OH	1:D:394:CYS:O	2.21	0.59
1:E:476:ASN:HA	1:Q:633:LEU:HB2	1.84	0.59
1:F:620:LYS:HD3	1:F:642:PRO:HD3	1.84	0.59
1:I:323:VAL:HG21	1:J:656:ASN:HD22	1.67	0.59
1:I:620:LYS:HD3	1:I:642:PRO:HD3	1.84	0.59
1:J:281:TYR:HB3	1:J:647:LEU:HG	1.85	0.59
1:K:257:TYR:OH	1:K:394:CYS:O	2.21	0.59
1:K:416:GLU:N	1:K:416:GLU:OE1	2.28	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:633:LEU:HB2	1:K:476:ASN:HA	101.06	0.59
1:M:499:GLU:HA	1:O:448:THR:HG23	118.02	0.59
1:U:448:THR:HG23	1:V:499:GLU:HA	73.73	0.59
1:W:448:THR:HG23	1:X:499:GLU:HA	73.73	0.59
1:X:620:LYS:HD3	1:X:642:PRO:HD3	1.84	0.59
1:Y:257:TYR:OH	1:Y:394:CYS:O	2.21	0.59
1:W:499:GLU:HA	1:Y:448:THR:HG23	44.19	0.59
1:Z:257:TYR:OH	1:Z:394:CYS:O	2.21	0.59
1:Z:448:THR:HG23	1:1:499:GLU:HA	102.40	0.59
1:2:250:PRO:HB2	1:3:659:THR:HG22	1.83	0.59
1:Z:499:GLU:HA	1:3:448:THR:HG23	1.85	0.59
1:5:448:THR:HG23	1:6:499:GLU:HA	1.85	0.59
1:6:476:ASN:HA	1:7:633:LEU:HB2	1.83	0.59
1:A:476:ASN:HA	1:8:633:LEU:HB2	148.46	0.59
1:F:272:TYR:HB2	1:F:378:LEU:HD22	1.84	0.59
1:G:620:LYS:HD3	1:G:642:PRO:HD3	1.84	0.59
1:I:448:THR:HG23	1:J:499:GLU:HA	99.51	0.59
1:J:257:TYR:OH	1:J:394:CYS:O	2.21	0.59
1:K:281:TYR:HB3	1:K:647:LEU:HG	1.85	0.59
1:L:257:TYR:OH	1:L:394:CYS:O	2.21	0.59
1:J:448:THR:HG23	1:L:499:GLU:HA	1.85	0.59
1:O:416:GLU:N	1:O:416:GLU:OE1	2.27	0.59
1:R:281:TYR:HB3	1:R:647:LEU:HG	1.85	0.59
1:R:620:LYS:HD3	1:R:642:PRO:HD3	1.84	0.59
1:U:257:TYR:OH	1:U:394:CYS:O	2.21	0.59
1:V:257:TYR:OH	1:V:394:CYS:O	2.21	0.59
1:X:281:TYR:HB3	1:X:647:LEU:HG	1.85	0.59
1:V:633:LEU:HB2	1:X:476:ASN:HA	1.84	0.59
1:Y:281:TYR:HB3	1:Y:647:LEU:HG	1.85	0.59
1:1:325:GLN:HE22	1:1:330:THR:HG22	1.67	0.59
1:Z:633:LEU:HB2	1:3:476:ASN:HA	1.84	0.59
1:4:281:TYR:HB3	1:4:647:LEU:HG	1.85	0.59
1:4:272:TYR:HB2	1:4:378:LEU:HD22	1.84	0.59
1:5:633:LEU:HB2	1:7:476:ASN:HA	1.84	0.59
1:8:327:ASP:OD1	1:8:328:GLY:N	2.35	0.59
1:A:257:TYR:OH	1:A:394:CYS:O	2.21	0.59
1:D:281:TYR:HB3	1:D:647:LEU:HG	1.85	0.59
1:D:325:GLN:HE22	1:D:330:THR:HG22	1.67	0.59
1:E:499:GLU:HA	1:V:448:THR:HG23	185.49	0.59
1:F:281:TYR:HB3	1:F:647:LEU:HG	1.85	0.59
1:H:620:LYS:HD3	1:H:642:PRO:HD3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:620:LYS:HD3	1:J:642:PRO:HD3	1.84	0.59
1:C:499:GLU:HA	1:M:448:THR:HG23	1.85	0.59
1:M:633:LEU:HB2	1:O:476:ASN:HA	101.05	0.59
1:P:272:TYR:HB2	1:P:378:LEU:HD22	1.84	0.59
1:Q:327:ASP:OD1	1:Q:328:GLY:N	2.35	0.59
1:R:429:SER:OG	1:R:431:ASP:OD1	2.18	0.59
1:S:698:ILE:O	1:T:701:THR:OG1	2.18	0.59
1:W:257:TYR:OH	1:W:394:CYS:O	2.21	0.59
1:X:272:TYR:HB2	1:X:378:LEU:HD22	1.84	0.59
1:5:327:ASP:OD1	1:5:328:GLY:N	2.35	0.58
1:5:476:ASN:HA	1:6:633:LEU:HB2	1.84	0.58
1:K:499:GLU:HA	1:8:448:THR:HG23	1.85	0.58
1:A:416:GLU:OE1	1:A:416:GLU:N	2.28	0.58
1:B:257:TYR:OH	1:B:394:CYS:O	2.21	0.58
1:B:499:GLU:HA	1:C:448:THR:HG23	99.53	0.58
1:B:620:LYS:HD3	1:B:642:PRO:HD3	1.84	0.58
1:E:499:GLU:HA	1:F:448:THR:HG23	1.85	0.58
1:F:286:ARG:HH12	1:F:288:HIS:CE1	2.21	0.58
1:E:633:LEU:HB2	1:F:476:ASN:HA	1.84	0.58
1:G:448:THR:HG23	1:I:499:GLU:HA	1.84	0.58
1:N:281:TYR:HB3	1:N:647:LEU:HG	1.85	0.58
1:O:281:TYR:HB3	1:O:647:LEU:HG	1.85	0.58
1:S:257:TYR:OH	1:S:394:CYS:O	2.21	0.58
1:T:281:TYR:HB3	1:T:647:LEU:HG	1.85	0.58
1:T:492:SER:O	1:V:458:SER:OG	121.39	0.58
1:L:476:ASN:HA	1:T:633:LEU:HB2	201.19	0.58
1:T:620:LYS:HD3	1:T:642:PRO:HD3	1.84	0.58
1:V:286:ARG:HH12	1:V:288:HIS:CE1	2.21	0.58
1:2:325:GLN:HE22	1:2:330:THR:HG22	1.67	0.58
1:6:286:ARG:HH12	1:6:288:HIS:CE1	2.22	0.58
1:8:272:TYR:HB2	1:8:378:LEU:HD22	1.84	0.58
1:A:281:TYR:HB3	1:A:647:LEU:HG	1.85	0.58
1:B:286:ARG:HH12	1:B:288:HIS:CE1	2.21	0.58
1:B:327:ASP:OD1	1:B:328:GLY:N	2.35	0.58
1:D:499:GLU:HA	1:P:448:THR:HG23	1.85	0.58
1:E:429:SER:OG	1:E:431:ASP:OD1	2.18	0.58
1:F:633:LEU:HB2	1:Q:476:ASN:HA	1.84	0.58
1:K:620:LYS:HD3	1:K:642:PRO:HD3	1.84	0.58
1:B:499:GLU:HA	1:L:448:THR:HG23	1.84	0.58
1:N:448:THR:HG23	1:P:499:GLU:HA	1.85	0.58
1:M:476:ASN:HA	1:N:633:LEU:HB2	75.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:286:ARG:HH12	1:R:288:HIS:CE1	2.21	0.58
1:U:286:ARG:HH12	1:U:288:HIS:CE1	2.21	0.58
1:R:499:GLU:HA	1:U:448:THR:HG23	1.85	0.58
1:W:327:ASP:OD1	1:W:328:GLY:N	2.35	0.58
1:3:327:ASP:OD1	1:3:328:GLY:N	2.35	0.58
1:5:286:ARG:HH12	1:5:288:HIS:CE1	2.21	0.58
1:A:448:THR:HG23	1:8:499:GLU:HA	184.66	0.58
1:8:522:ALA:HB1	1:8:609:ARG:HB2	1.86	0.58
1:C:286:ARG:HH12	1:C:288:HIS:CE1	2.21	0.58
1:E:281:TYR:HB3	1:E:647:LEU:HG	1.85	0.58
1:G:449:ASN:O	1:G:450:THR:OG1	2.20	0.58
1:I:286:ARG:HH12	1:I:288:HIS:CE1	2.21	0.58
1:I:250:PRO:HB2	1:J:659:THR:HG22	1.84	0.58
1:P:281:TYR:HB3	1:P:647:LEU:HG	1.85	0.58
1:T:286:ARG:HH12	1:T:288:HIS:CE1	2.21	0.58
1:T:448:THR:HG23	1:U:499:GLU:HA	99.52	0.58
1:Y:286:ARG:HH12	1:Y:288:HIS:CE1	2.21	0.58
1:1:286:ARG:HH12	1:1:288:HIS:CE1	2.21	0.58
1:3:416:GLU:N	1:3:416:GLU:OE1	2.28	0.58
1:8:281:TYR:HB3	1:8:647:LEU:HG	1.85	0.58
1:A:522:ALA:HB1	1:A:609:ARG:HB2	1.86	0.58
1:F:522:ALA:HB1	1:F:609:ARG:HB2	1.86	0.58
1:H:281:TYR:HB3	1:H:647:LEU:HG	1.85	0.58
1:I:449:ASN:O	1:I:450:THR:OG1	2.20	0.58
1:J:522:ALA:HB1	1:J:609:ARG:HB2	1.86	0.58
1:N:522:ALA:HB1	1:N:609:ARG:HB2	1.86	0.58
1:O:286:ARG:HH12	1:O:288:HIS:CE1	2.21	0.58
1:O:522:ALA:HB1	1:O:609:ARG:HB2	1.86	0.58
1:P:522:ALA:HB1	1:P:609:ARG:HB2	1.86	0.58
1:Q:286:ARG:HH12	1:Q:288:HIS:CE1	2.21	0.58
1:V:281:TYR:HB3	1:V:647:LEU:HG	1.85	0.58
1:T:499:GLU:HA	1:V:448:THR:HG23	118.02	0.58
1:W:281:TYR:HB3	1:W:647:LEU:HG	1.85	0.58
1:1:620:LYS:HD3	1:1:642:PRO:HD3	1.84	0.58
1:3:522:ALA:HB1	1:3:609:ARG:HB2	1.86	0.58
1:4:522:ALA:HB1	1:4:609:ARG:HB2	1.86	0.58
1:6:281:TYR:HB3	1:6:647:LEU:HG	1.85	0.58
1:7:286:ARG:HH12	1:7:288:HIS:CE1	2.21	0.58
1:A:286:ARG:HH12	1:A:288:HIS:CE1	2.21	0.58
1:B:633:LEU:HB2	1:C:476:ASN:HA	75.30	0.58
1:G:281:TYR:HB3	1:G:647:LEU:HG	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:286:ARG:HH12	1:G:288:HIS:CE1	2.21	0.58
1:H:286:ARG:HH12	1:H:288:HIS:CE1	2.21	0.58
1:I:416:GLU:OE1	1:I:416:GLU:N	2.27	0.58
1:K:286:ARG:HH12	1:K:288:HIS:CE1	2.22	0.58
1:L:449:ASN:O	1:L:450:THR:OG1	2.20	0.58
1:O:448:THR:HG23	1:P:499:GLU:HA	99.53	0.58
1:S:281:TYR:HB3	1:S:647:LEU:HG	1.85	0.58
1:S:286:ARG:HH12	1:S:288:HIS:CE1	2.22	0.58
1:V:499:GLU:HA	1:X:448:THR:HG23	1.85	0.58
1:X:286:ARG:HH12	1:X:288:HIS:CE1	2.22	0.58
1:Y:429:SER:OG	1:Y:431:ASP:OD1	2.18	0.58
1:Z:449:ASN:O	1:Z:450:THR:OG1	2.20	0.58
1:B:633:LEU:HB2	1:L:476:ASN:HA	1.84	0.58
1:D:286:ARG:HH12	1:D:288:HIS:CE1	2.22	0.58
1:E:286:ARG:HH12	1:E:288:HIS:CE1	2.21	0.58
1:M:281:TYR:HB3	1:M:647:LEU:HG	1.85	0.58
1:P:620:LYS:HD3	1:P:642:PRO:HD3	1.84	0.58
1:S:522:ALA:HB1	1:S:609:ARG:HB2	1.86	0.58
1:U:281:TYR:HB3	1:U:647:LEU:HG	1.85	0.58
1:U:522:ALA:HB1	1:U:609:ARG:HB2	1.86	0.58
1:V:522:ALA:HB1	1:V:609:ARG:HB2	1.86	0.58
1:W:448:THR:HG23	1:Y:499:GLU:HA	1.85	0.58
1:Y:522:ALA:HB1	1:Y:609:ARG:HB2	1.86	0.58
1:5:291:PHE:O	1:5:292:SER:OG	2.09	0.58
1:7:281:TYR:HB3	1:7:647:LEU:HG	1.85	0.58
1:8:625:ASP:N	1:8:625:ASP:OD1	2.23	0.58
1:B:449:ASN:O	1:B:450:THR:OG1	2.20	0.58
1:G:522:ALA:HB1	1:G:609:ARG:HB2	1.86	0.58
1:H:522:ALA:HB1	1:H:609:ARG:HB2	1.86	0.58
1:Z:281:TYR:HB3	1:Z:647:LEU:HG	1.85	0.58
1:Z:476:ASN:HA	1:1:633:LEU:HB2	85.05	0.58
1:4:620:LYS:HD3	1:4:642:PRO:HD3	1.84	0.58
1:C:522:ALA:HB1	1:C:609:ARG:HB2	1.86	0.58
1:I:522:ALA:HB1	1:I:609:ARG:HB2	1.86	0.58
1:K:449:ASN:O	1:K:450:THR:OG1	2.20	0.58
1:M:286:ARG:HH12	1:M:288:HIS:CE1	2.21	0.58
1:M:522:ALA:HB1	1:M:609:ARG:HB2	1.86	0.58
1:Q:448:THR:HG23	1:R:499:GLU:HA	73.73	0.58
1:R:522:ALA:HB1	1:R:609:ARG:HB2	1.86	0.58
1:T:522:ALA:HB1	1:T:609:ARG:HB2	1.86	0.58
1:T:633:LEU:HB2	1:V:476:ASN:HA	101.06	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:286:ARG:HH12	1:Z:288:HIS:CE1	2.21	0.58
1:Z:272:TYR:HB2	1:Z:378:LEU:HD22	1.84	0.58
1:2:286:ARG:HH12	1:2:288:HIS:CE1	2.21	0.58
1:4:286:ARG:HH12	1:4:288:HIS:CE1	2.21	0.58
1:5:257:TYR:OH	1:5:394:CYS:O	2.21	0.58
1:6:448:THR:HG23	1:7:499:GLU:HA	1.85	0.58
1:6:449:ASN:O	1:6:450:THR:OG1	2.20	0.58
1:8:286:ARG:HH12	1:8:288:HIS:CE1	2.21	0.58
1:C:281:TYR:HB3	1:C:647:LEU:HG	1.85	0.58
1:D:449:ASN:O	1:D:450:THR:OG1	2.20	0.58
1:J:286:ARG:HH12	1:J:288:HIS:CE1	2.21	0.58
1:K:522:ALA:HB1	1:K:609:ARG:HB2	1.86	0.58
1:N:286:ARG:HH12	1:N:288:HIS:CE1	2.22	0.58
1:P:286:ARG:HH12	1:P:288:HIS:CE1	2.21	0.58
1:Q:281:TYR:HB3	1:Q:647:LEU:HG	1.85	0.58
1:Q:257:TYR:OH	1:Q:394:CYS:O	2.21	0.58
1:T:326:ASN:O	1:T:329:THR:OG1	2.19	0.58
1:X:448:THR:HG23	1:Y:499:GLU:HA	99.54	0.58
1:1:326:ASN:O	1:1:329:THR:OG1	2.19	0.58
1:5:281:TYR:HB3	1:5:647:LEU:HG	1.85	0.58
1:A:620:LYS:HD3	1:A:642:PRO:HD3	1.84	0.58
1:B:522:ALA:HB1	1:B:609:ARG:HB2	1.86	0.58
1:L:281:TYR:HB3	1:L:647:LEU:HG	1.85	0.58
1:B:443:TYR:HH	1:M:547:SER:HG	148.13	0.58
1:M:679:SER:O	1:M:680:VAL:HG22	2.05	0.58
1:N:620:LYS:HD3	1:N:642:PRO:HD3	1.84	0.58
1:Z:499:GLU:HA	1:2:448:THR:HG23	114.64	0.57
1:A:492:SER:O	1:I:458:SER:OG	2.20	0.57
1:A:633:LEU:HB2	1:I:476:ASN:HA	1.86	0.57
1:C:374:GLN:NE2	1:P:437:LEU:HD13	40.03	0.57
1:F:449:ASN:O	1:F:450:THR:OG1	2.20	0.57
1:G:476:ASN:HA	1:I:633:LEU:HB2	1.85	0.57
1:M:437:LEU:HD13	1:N:374:GLN:NE2	68.17	0.57
1:E:448:THR:HG23	1:Q:499:GLU:HA	1.85	0.57
1:R:633:LEU:HB2	1:U:476:ASN:HA	1.84	0.57
1:3:286:ARG:HH12	1:3:288:HIS:CE1	2.21	0.57
1:4:704:TYR:CG	1:4:705:ASN:N	2.73	0.57
1:6:704:TYR:CG	1:6:705:ASN:N	2.73	0.57
1:5:499:GLU:HA	1:7:448:THR:HG23	1.85	0.57
1:7:679:SER:O	1:7:680:VAL:HG22	2.04	0.57
1:8:326:ASN:O	1:8:329:THR:OG1	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:257:TYR:OH	1:8:394:CYS:O	2.21	0.57
1:E:679:SER:O	1:E:680:VAL:HG22	2.04	0.57
1:F:679:SER:O	1:F:680:VAL:HG22	2.04	0.57
1:G:704:TYR:CG	1:G:705:ASN:N	2.73	0.57
1:H:429:SER:OG	1:H:431:ASP:OD1	2.18	0.57
1:L:704:TYR:CG	1:L:705:ASN:N	2.73	0.57
1:N:704:TYR:CG	1:N:705:ASN:N	2.73	0.57
1:P:326:ASN:O	1:P:329:THR:OG1	2.19	0.57
1:P:704:TYR:CG	1:P:705:ASN:N	2.73	0.57
1:V:704:TYR:CG	1:V:705:ASN:N	2.73	0.57
1:2:522:ALA:HB1	1:2:609:ARG:HB2	1.86	0.57
1:6:679:SER:O	1:6:680:VAL:HG22	2.04	0.57
1:7:522:ALA:HB1	1:7:609:ARG:HB2	1.86	0.57
1:8:679:SER:O	1:8:680:VAL:HG22	2.04	0.57
1:A:449:ASN:O	1:A:450:THR:OG1	2.20	0.57
1:C:704:TYR:CG	1:C:705:ASN:N	2.73	0.57
1:D:704:TYR:CG	1:D:705:ASN:N	2.73	0.57
1:E:522:ALA:HB1	1:E:609:ARG:HB2	1.86	0.57
1:F:704:TYR:CG	1:F:705:ASN:N	2.73	0.57
1:H:257:TYR:OH	1:H:394:CYS:O	2.21	0.57
1:I:281:TYR:HB3	1:I:647:LEU:HG	1.85	0.57
1:I:704:TYR:CG	1:I:705:ASN:N	2.73	0.57
1:J:679:SER:O	1:J:680:VAL:HG22	2.04	0.57
1:K:704:TYR:CG	1:K:705:ASN:N	2.73	0.57
1:L:286:ARG:HH12	1:L:288:HIS:CE1	2.21	0.57
1:N:449:ASN:O	1:N:450:THR:OG1	2.20	0.57
1:P:679:SER:O	1:P:680:VAL:HG22	2.04	0.57
1:S:704:TYR:CG	1:S:705:ASN:N	2.73	0.57
1:U:704:TYR:CG	1:U:705:ASN:N	2.73	0.57
1:W:286:ARG:HH12	1:W:288:HIS:CE1	2.21	0.57
1:Z:679:SER:O	1:Z:680:VAL:HG22	2.05	0.57
1:5:308:PRO:HD3	1:5:637:PHE:CE2	2.40	0.57
1:5:704:TYR:CG	1:5:705:ASN:N	2.73	0.57
1:8:620:LYS:HD3	1:8:642:PRO:HD3	1.84	0.57
1:8:704:TYR:CG	1:8:705:ASN:N	2.73	0.57
1:A:704:TYR:CG	1:A:705:ASN:N	2.73	0.57
1:C:679:SER:O	1:C:680:VAL:HG22	2.04	0.57
1:D:522:ALA:HB1	1:D:609:ARG:HB2	1.86	0.57
1:E:704:TYR:CG	1:E:705:ASN:N	2.73	0.57
1:H:704:TYR:CG	1:H:705:ASN:N	2.73	0.57
1:I:679:SER:O	1:I:680:VAL:HG22	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:308:PRO:HD3	1:K:637:PHE:CE2	2.40	0.57
1:K:679:SER:O	1:K:680:VAL:HG22	2.04	0.57
1:S:449:ASN:O	1:S:450:THR:OG1	2.20	0.57
1:W:437:LEU:HD13	1:X:374:GLN:NE2	40.64	0.57
1:X:257:TYR:OH	1:X:394:CYS:O	2.21	0.57
1:Z:522:ALA:HB1	1:Z:609:ARG:HB2	1.86	0.57
1:1:257:TYR:OH	1:1:394:CYS:O	2.21	0.57
1:3:524:ALA:HB1	1:3:572:ALA:HB2	1.87	0.57
1:7:704:TYR:CG	1:7:705:ASN:N	2.73	0.57
1:A:447:ARG:HH12	1:A:450:THR:HG22	1.70	0.57
1:D:679:SER:O	1:D:680:VAL:HG22	2.04	0.57
1:H:447:ARG:HH12	1:H:450:THR:HG22	1.70	0.57
1:H:679:SER:O	1:H:680:VAL:HG22	2.04	0.57
1:L:522:ALA:HB1	1:L:609:ARG:HB2	1.86	0.57
1:M:447:ARG:HH12	1:M:450:THR:HG22	1.70	0.57
1:N:308:PRO:HD3	1:N:637:PHE:CE2	2.40	0.57
1:O:308:PRO:HD3	1:O:637:PHE:CE2	2.40	0.57
1:O:449:ASN:O	1:O:450:THR:OG1	2.20	0.57
1:O:704:TYR:CG	1:O:705:ASN:N	2.73	0.57
1:P:308:PRO:HD3	1:P:637:PHE:CE2	2.40	0.57
1:Q:308:PRO:HD3	1:Q:637:PHE:CE2	2.40	0.57
1:Q:704:TYR:CG	1:Q:705:ASN:N	2.73	0.57
1:S:679:SER:O	1:S:680:VAL:HG22	2.05	0.57
1:X:524:ALA:HB1	1:X:572:ALA:HB2	1.87	0.57
1:X:704:TYR:CG	1:X:705:ASN:N	2.73	0.57
1:Z:447:ARG:HH12	1:Z:450:THR:HG22	1.70	0.57
1:1:704:TYR:CG	1:1:705:ASN:N	2.73	0.57
1:2:679:SER:O	1:2:680:VAL:HG22	2.05	0.57
1:3:308:PRO:HD3	1:3:637:PHE:CE2	2.40	0.57
1:3:704:TYR:CG	1:3:705:ASN:N	2.73	0.57
1:4:308:PRO:HD3	1:4:637:PHE:CE2	2.40	0.57
1:8:308:PRO:HD3	1:8:637:PHE:CE2	2.40	0.57
1:B:679:SER:O	1:B:680:VAL:HG22	2.04	0.57
1:E:437:LEU:HD13	1:Q:374:GLN:NE2	2.20	0.57
1:H:308:PRO:HD3	1:H:637:PHE:CE2	2.40	0.57
1:J:704:TYR:CG	1:J:705:ASN:N	2.73	0.57
1:N:447:ARG:HH12	1:N:450:THR:HG22	1.70	0.57
1:T:449:ASN:O	1:T:450:THR:OG1	2.21	0.57
1:T:704:TYR:CG	1:T:705:ASN:N	2.73	0.57
1:U:308:PRO:HD3	1:U:637:PHE:CE2	2.40	0.57
1:U:449:ASN:O	1:U:450:THR:OG1	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:679:SER:O	1:U:680:VAL:HG22	2.04	0.57
1:V:308:PRO:HD3	1:V:637:PHE:CE2	2.40	0.57
1:V:447:ARG:HH12	1:V:450:THR:HG22	1.70	0.57
1:1:416:GLU:N	1:1:416:GLU:OE1	2.28	0.57
1:1:522:ALA:HB1	1:1:609:ARG:HB2	1.86	0.57
1:2:281:TYR:HB3	1:2:647:LEU:HG	1.85	0.57
1:4:447:ARG:HH12	1:4:450:THR:HG22	1.70	0.57
1:6:524:ALA:HB1	1:6:572:ALA:HB2	1.87	0.57
1:D:308:PRO:HD3	1:D:637:PHE:CE2	2.40	0.57
1:D:524:ALA:HB1	1:D:572:ALA:HB2	1.87	0.57
1:E:437:LEU:HD13	1:X:374:GLN:NE2	171.25	0.57
1:F:524:ALA:HB1	1:F:572:ALA:HB2	1.87	0.57
1:H:524:ALA:HB1	1:H:572:ALA:HB2	1.87	0.57
1:I:308:PRO:HD3	1:I:637:PHE:CE2	2.40	0.57
1:K:447:ARG:HH12	1:K:450:THR:HG22	1.70	0.57
1:L:448:THR:HG23	1:T:499:GLU:HA	243.04	0.57
1:O:524:ALA:HB1	1:O:572:ALA:HB2	1.87	0.57
1:S:524:ALA:HB1	1:S:572:ALA:HB2	1.87	0.57
1:T:416:GLU:OE1	1:T:416:GLU:N	2.28	0.57
1:U:447:ARG:HH12	1:U:450:THR:HG22	1.70	0.57
1:V:524:ALA:HB1	1:V:572:ALA:HB2	1.87	0.57
1:Y:308:PRO:HD3	1:Y:637:PHE:CE2	2.40	0.57
1:W:437:LEU:HD13	1:Y:374:GLN:NE2	2.20	0.57
1:Y:447:ARG:HH12	1:Y:450:THR:HG22	1.70	0.57
1:1:524:ALA:HB1	1:1:572:ALA:HB2	1.87	0.57
1:2:308:PRO:HD3	1:2:637:PHE:CE2	2.40	0.57
1:2:524:ALA:HB1	1:2:572:ALA:HB2	1.87	0.57
1:2:625:ASP:N	1:2:625:ASP:OD1	2.23	0.57
1:5:374:GLN:NE2	1:7:437:LEU:HD13	2.20	0.57
1:7:545:GLN:OE1	1:7:545:GLN:N	2.34	0.57
1:C:308:PRO:HD3	1:C:637:PHE:CE2	2.40	0.57
1:C:416:GLU:N	1:C:416:GLU:OE1	2.28	0.57
1:C:447:ARG:HH12	1:C:450:THR:HG22	1.70	0.57
1:F:416:GLU:CG	1:F:417:ASP:H	2.17	0.57
1:I:447:ARG:HH12	1:I:450:THR:HG22	1.70	0.57
1:M:704:TYR:CG	1:M:705:ASN:N	2.73	0.57
1:Q:522:ALA:HB1	1:Q:609:ARG:HB2	1.86	0.57
1:R:308:PRO:HD3	1:R:637:PHE:CE2	2.40	0.57
1:R:447:ARG:HH12	1:R:450:THR:HG22	1.70	0.57
1:S:308:PRO:HD3	1:S:637:PHE:CE2	2.40	0.57
1:V:374:GLN:NE2	1:X:437:LEU:HD13	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:308:PRO:HD3	1:W:637:PHE:CE2	2.40	0.57
1:X:449:ASN:O	1:X:450:THR:OG1	2.20	0.57
1:X:447:ARG:HH12	1:X:450:THR:HG22	1.70	0.57
1:Y:449:ASN:O	1:Y:450:THR:OG1	2.20	0.57
1:Y:524:ALA:HB1	1:Y:572:ALA:HB2	1.87	0.57
1:Z:704:TYR:CG	1:Z:705:ASN:N	2.73	0.57
1:5:437:LEU:HD13	1:6:374:GLN:NE2	2.20	0.57
1:5:522:ALA:HB1	1:5:609:ARG:HB2	1.86	0.57
1:6:416:GLU:CG	1:6:417:ASP:H	2.17	0.57
1:A:679:SER:O	1:A:680:VAL:HG22	2.05	0.57
1:D:447:ARG:HH12	1:D:450:THR:HG22	1.70	0.57
1:G:308:PRO:HD3	1:G:637:PHE:CE2	2.40	0.57
1:G:679:SER:O	1:G:680:VAL:HG22	2.05	0.57
1:G:374:GLN:NE2	1:H:437:LEU:HD13	40.65	0.57
1:I:374:GLN:NE2	1:K:437:LEU:HD13	65.34	0.57
1:I:437:LEU:HD13	1:J:374:GLN:NE2	68.15	0.57
1:L:308:PRO:HD3	1:L:637:PHE:CE2	2.40	0.57
1:L:437:LEU:HD13	1:T:374:GLN:NE2	206.87	0.57
1:R:704:TYR:CG	1:R:705:ASN:N	2.73	0.57
1:T:524:ALA:HB1	1:T:572:ALA:HB2	1.87	0.57
1:X:522:ALA:HB1	1:X:609:ARG:HB2	1.86	0.57
1:1:447:ARG:HH12	1:1:450:THR:HG22	1.70	0.57
1:2:447:ARG:HH12	1:2:450:THR:HG22	1.70	0.57
1:2:704:TYR:CG	1:2:705:ASN:N	2.73	0.57
1:5:524:ALA:HB1	1:5:572:ALA:HB2	1.87	0.57
1:6:308:PRO:HD3	1:6:637:PHE:CE2	2.40	0.57
1:K:374:GLN:NE2	1:8:437:LEU:HD13	2.20	0.57
1:8:449:ASN:O	1:8:450:THR:OG1	2.20	0.57
1:A:308:PRO:HD3	1:A:637:PHE:CE2	2.40	0.57
1:B:308:PRO:HD3	1:B:637:PHE:CE2	2.40	0.57
1:F:308:PRO:HD3	1:F:637:PHE:CE2	2.40	0.57
1:H:416:GLU:OE1	1:H:416:GLU:N	2.28	0.57
1:J:437:LEU:HD13	1:L:374:GLN:NE2	2.20	0.57
1:L:447:ARG:HH12	1:L:450:THR:HG22	1.70	0.57
1:L:679:SER:O	1:L:680:VAL:HG22	2.04	0.57
1:Q:447:ARG:HH12	1:Q:450:THR:HG22	1.70	0.57
1:Q:524:ALA:HB1	1:Q:572:ALA:HB2	1.87	0.57
1:Q:679:SER:O	1:Q:680:VAL:HG22	2.04	0.57
1:T:374:GLN:NE2	1:V:437:LEU:HD13	65.33	0.57
1:T:447:ARG:HH12	1:T:450:THR:HG22	1.70	0.57
1:V:679:SER:O	1:V:680:VAL:HG22	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:522:ALA:HB1	1:W:609:ARG:HB2	1.86	0.57
1:W:679:SER:O	1:W:680:VAL:HG22	2.04	0.57
1:X:437:LEU:HD13	1:Y:374:GLN:NE2	68.17	0.57
1:X:679:SER:O	1:X:680:VAL:HG22	2.04	0.57
1:Y:679:SER:O	1:Y:680:VAL:HG22	2.04	0.57
1:Z:308:PRO:HD3	1:Z:637:PHE:CE2	2.40	0.57
1:1:281:TYR:HB3	1:1:647:LEU:HG	1.85	0.56
1:5:679:SER:O	1:5:680:VAL:HG22	2.05	0.56
1:7:524:ALA:HB1	1:7:572:ALA:HB2	1.87	0.56
1:B:704:TYR:CG	1:B:705:ASN:N	2.73	0.56
1:C:416:GLU:CG	1:C:417:ASP:H	2.17	0.56
1:C:413:TYR:OH	1:C:641:HIS:O	2.23	0.56
1:E:524:ALA:HB1	1:E:572:ALA:HB2	1.87	0.56
1:H:374:GLN:NE2	1:Y:437:LEU:HD13	2.20	0.56
1:G:437:LEU:HD13	1:I:374:GLN:NE2	2.19	0.56
1:I:413:TYR:OH	1:I:641:HIS:O	2.23	0.56
1:J:447:ARG:HH12	1:J:450:THR:HG22	1.70	0.56
1:K:524:ALA:HB1	1:K:572:ALA:HB2	1.87	0.56
1:C:374:GLN:NE2	1:M:437:LEU:HD13	2.20	0.56
1:N:679:SER:O	1:N:680:VAL:HG22	2.05	0.56
1:D:374:GLN:NE2	1:P:437:LEU:HD13	2.20	0.56
1:F:374:GLN:NE2	1:Q:437:LEU:HD13	2.20	0.56
1:Q:437:LEU:HD13	1:R:374:GLN:NE2	40.65	0.56
1:R:679:SER:O	1:R:680:VAL:HG22	2.04	0.56
1:T:308:PRO:HD3	1:T:637:PHE:CE2	2.40	0.56
1:T:679:SER:O	1:T:680:VAL:HG22	2.05	0.56
1:W:447:ARG:HH12	1:W:450:THR:HG22	1.70	0.56
1:W:704:TYR:CG	1:W:705:ASN:N	2.73	0.56
1:X:413:TYR:OH	1:X:641:HIS:O	2.23	0.56
1:Y:704:TYR:CG	1:Y:705:ASN:N	2.73	0.56
1:2:413:TYR:OH	1:2:641:HIS:O	2.23	0.56
1:3:281:TYR:HB3	1:3:647:LEU:HG	1.85	0.56
1:6:287:PHE:CE1	1:6:684:TRP:HH2	2.24	0.56
1:6:447:ARG:HH12	1:6:450:THR:HG22	1.70	0.56
1:6:437:LEU:HD13	1:7:374:GLN:NE2	2.20	0.56
1:8:287:PHE:CE1	1:8:684:TRP:HH2	2.24	0.56
1:B:281:TYR:HB3	1:B:647:LEU:HG	1.85	0.56
1:E:374:GLN:NE2	1:F:437:LEU:HD13	2.20	0.56
1:F:447:ARG:HH12	1:F:450:THR:HG22	1.70	0.56
1:F:287:PHE:CE1	1:F:684:TRP:HH2	2.24	0.56
1:J:287:PHE:CE1	1:J:684:TRP:HH2	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:287:PHE:CE1	1:S:684:TRP:HH2	2.24	0.56
1:U:416:GLU:CG	1:U:417:ASP:H	2.17	0.56
1:R:374:GLN:NE2	1:U:437:LEU:HD13	2.20	0.56
1:U:287:PHE:CE1	1:U:684:TRP:HH2	2.24	0.56
1:V:416:GLU:CG	1:V:417:ASP:H	2.18	0.56
1:1:287:PHE:CE1	1:1:684:TRP:HH2	2.24	0.56
1:Z:437:LEU:HD13	1:1:374:GLN:NE2	106.81	0.56
1:7:287:PHE:HB2	1:7:613:LEU:HA	1.88	0.56
1:A:287:PHE:CE1	1:A:684:TRP:HH2	2.24	0.56
1:A:287:PHE:HB2	1:A:613:LEU:HA	1.88	0.56
1:C:524:ALA:HB1	1:C:572:ALA:HB2	1.87	0.56
1:E:287:PHE:HB2	1:E:613:LEU:HA	1.88	0.56
1:F:374:GLN:NE2	1:G:437:LEU:HD13	104.29	0.56
1:G:524:ALA:HB1	1:G:572:ALA:HB2	1.87	0.56
1:I:524:ALA:HB1	1:I:572:ALA:HB2	1.87	0.56
1:J:308:PRO:HD3	1:J:637:PHE:CE2	2.40	0.56
1:J:416:GLU:N	1:J:416:GLU:OE1	2.28	0.56
1:L:416:GLU:CG	1:L:417:ASP:H	2.18	0.56
1:L:247:TRP:NE1	1:L:677:GLN:O	2.34	0.56
1:M:287:PHE:CE1	1:M:684:TRP:HH2	2.24	0.56
1:O:287:PHE:CE1	1:O:684:TRP:HH2	2.24	0.56
1:O:679:SER:O	1:O:680:VAL:HG22	2.04	0.56
1:N:701:THR:OG1	1:O:698:ILE:O	2.19	0.56
1:R:437:LEU:HD13	1:S:374:GLN:NE2	2.20	0.56
1:T:287:PHE:CE1	1:T:684:TRP:HH2	2.24	0.56
1:U:470:ILE:C	1:U:472:ASP:H	2.09	0.56
1:V:470:ILE:C	1:V:472:ASP:H	2.09	0.56
1:X:308:PRO:HD3	1:X:637:PHE:CE2	2.40	0.56
1:X:416:GLU:OE1	1:X:416:GLU:N	2.28	0.56
1:Y:416:GLU:CG	1:Y:417:ASP:H	2.17	0.56
1:Z:437:LEU:HD13	1:4:374:GLN:NE2	2.20	0.56
1:1:437:LEU:HD13	1:2:374:GLN:NE2	2.20	0.56
1:4:689:GLU:HG3	1:4:731:LEU:HD13	1.88	0.56
1:B:437:LEU:HD13	1:M:374:GLN:NE2	149.33	0.56
1:C:689:GLU:HG3	1:C:731:LEU:HD13	1.88	0.56
1:D:416:GLU:CG	1:D:417:ASP:H	2.17	0.56
1:E:308:PRO:HD3	1:E:637:PHE:CE2	2.40	0.56
1:F:470:ILE:C	1:F:472:ASP:H	2.09	0.56
1:G:689:GLU:HG3	1:G:731:LEU:HD13	1.88	0.56
1:I:689:GLU:HG3	1:I:731:LEU:HD13	1.88	0.56
1:J:470:ILE:C	1:J:472:ASP:H	2.09	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:524:ALA:HB1	1:J:572:ALA:HB2	1.87	0.56
1:M:374:GLN:NE2	1:O:437:LEU:HD13	65.33	0.56
1:N:287:PHE:CE1	1:N:684:TRP:HH2	2.23	0.56
1:N:287:PHE:HB2	1:N:613:LEU:HA	1.88	0.56
1:N:689:GLU:HG3	1:N:731:LEU:HD13	1.88	0.56
1:O:287:PHE:HB2	1:O:613:LEU:HA	1.88	0.56
1:O:470:ILE:C	1:O:472:ASP:H	2.09	0.56
1:P:287:PHE:CE1	1:P:684:TRP:HH2	2.24	0.56
1:R:287:PHE:HB2	1:R:613:LEU:HA	1.88	0.56
1:S:447:ARG:HH12	1:S:450:THR:HG22	1.70	0.56
1:X:287:PHE:CE1	1:X:684:TRP:HH2	2.24	0.56
1:Z:374:GLN:NE2	1:3:437:LEU:HD13	2.20	0.56
1:2:416:GLU:CG	1:2:417:ASP:H	2.17	0.56
1:3:287:PHE:CE1	1:3:684:TRP:HH2	2.24	0.56
1:4:679:SER:O	1:4:680:VAL:HG22	2.04	0.56
1:4:287:PHE:CE1	1:4:684:TRP:HH2	2.24	0.56
1:P:659:THR:HG22	1:6:250:PRO:HB2	189.94	0.56
1:6:257:TYR:OH	1:6:394:CYS:O	2.21	0.56
1:6:470:ILE:C	1:6:472:ASP:H	2.09	0.56
1:A:470:ILE:C	1:A:472:ASP:H	2.09	0.56
1:A:524:ALA:HB1	1:A:572:ALA:HB2	1.87	0.56
1:B:437:LEU:HD13	1:J:374:GLN:NE2	2.20	0.56
1:C:470:ILE:C	1:C:472:ASP:H	2.09	0.56
1:I:470:ILE:C	1:I:472:ASP:H	2.09	0.56
1:I:240:ILE:HA	1:I:683:GLU:HA	1.88	0.56
1:L:470:ILE:C	1:L:472:ASP:H	2.09	0.56
1:L:287:PHE:HB2	1:L:613:LEU:HA	1.88	0.56
1:M:308:PRO:HD3	1:M:637:PHE:CE2	2.40	0.56
1:Q:240:ILE:HA	1:Q:683:GLU:HA	1.88	0.56
1:R:247:TRP:NE1	1:R:677:GLN:O	2.34	0.56
1:T:287:PHE:HB2	1:T:613:LEU:HA	1.88	0.56
1:T:437:LEU:HD13	1:U:374:GLN:NE2	68.17	0.56
1:X:451:PRO:HB2	1:X:453:GLY:O	2.06	0.56
1:Z:287:PHE:CE1	1:Z:684:TRP:HH2	2.24	0.56
1:Z:689:GLU:HG3	1:Z:731:LEU:HD13	1.88	0.56
1:3:679:SER:O	1:3:680:VAL:HG22	2.04	0.56
1:A:437:LEU:HD13	1:G:374:GLN:NE2	2.20	0.56
1:A:689:GLU:HG3	1:A:731:LEU:HD13	1.88	0.56
1:C:240:ILE:HA	1:C:683:GLU:HA	1.88	0.56
1:G:451:PRO:HB2	1:G:453:GLY:O	2.06	0.56
1:H:451:PRO:HB2	1:H:453:GLY:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:470:ILE:C	1:H:472:ASP:H	2.09	0.56
1:J:287:PHE:HB2	1:J:613:LEU:HA	1.87	0.56
1:J:689:GLU:HG3	1:J:731:LEU:HD13	1.88	0.56
1:M:287:PHE:HB2	1:M:613:LEU:HA	1.88	0.56
1:M:689:GLU:HG3	1:M:731:LEU:HD13	1.88	0.56
1:N:524:ALA:HB1	1:N:572:ALA:HB2	1.87	0.56
1:O:451:PRO:HB2	1:O:453:GLY:O	2.06	0.56
1:P:451:PRO:HB2	1:P:453:GLY:O	2.06	0.56
1:Q:451:PRO:HB2	1:Q:453:GLY:O	2.06	0.56
1:S:416:GLU:N	1:S:416:GLU:OE1	2.28	0.56
1:T:247:TRP:NE1	1:T:677:GLN:O	2.34	0.56
1:W:451:PRO:HB2	1:W:453:GLY:O	2.06	0.56
1:W:470:ILE:C	1:W:472:ASP:H	2.09	0.56
1:W:240:ILE:HA	1:W:683:GLU:HA	1.88	0.56
1:Y:470:ILE:C	1:Y:472:ASP:H	2.09	0.56
1:Z:287:PHE:HB2	1:Z:613:LEU:HA	1.88	0.56
1:Z:374:GLN:NE2	1:2:437:LEU:HD13	100.39	0.56
1:1:308:PRO:HD3	1:1:637:PHE:CE2	2.40	0.56
1:3:287:PHE:HB2	1:3:613:LEU:HA	1.88	0.56
1:3:449:ASN:O	1:3:450:THR:OG1	2.20	0.56
1:3:451:PRO:HB2	1:3:453:GLY:O	2.06	0.56
1:A:701:THR:OG1	1:3:698:ILE:O	155.34	0.56
1:5:625:ASP:N	1:5:625:ASP:OD1	2.23	0.56
1:6:522:ALA:HB1	1:6:609:ARG:HB2	1.86	0.56
1:7:308:PRO:HD3	1:7:637:PHE:CE2	2.40	0.56
1:C:451:PRO:HB2	1:C:453:GLY:O	2.06	0.56
1:C:287:PHE:CE1	1:C:684:TRP:HH2	2.24	0.56
1:E:470:ILE:C	1:E:472:ASP:H	2.09	0.56
1:F:545:GLN:OE1	1:F:545:GLN:N	2.34	0.56
1:F:689:GLU:HG3	1:F:731:LEU:HD13	1.88	0.56
1:G:447:ARG:HH12	1:G:450:THR:HG22	1.70	0.56
1:I:287:PHE:CE1	1:I:684:TRP:HH2	2.24	0.56
1:J:240:ILE:HA	1:J:683:GLU:HA	1.88	0.56
1:K:326:ASN:O	1:K:329:THR:OG1	2.19	0.56
1:O:689:GLU:HG3	1:O:731:LEU:HD13	1.88	0.56
1:Q:416:GLU:CG	1:Q:417:ASP:H	2.17	0.56
1:Q:715:ASP:OD1	1:Q:716:THR:N	2.38	0.56
1:R:470:ILE:C	1:R:472:ASP:H	2.09	0.56
1:S:451:PRO:HB2	1:S:453:GLY:O	2.06	0.56
1:U:416:GLU:N	1:U:416:GLU:OE1	2.28	0.56
1:U:524:ALA:HB1	1:U:572:ALA:HB2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:416:GLU:CG	1:W:417:ASP:H	2.17	0.56
1:W:524:ALA:HB1	1:W:572:ALA:HB2	1.87	0.56
1:1:679:SER:O	1:1:680:VAL:HG22	2.04	0.56
1:2:257:TYR:OH	1:2:394:CYS:O	2.21	0.56
1:2:240:ILE:HA	1:2:683:GLU:HA	1.88	0.56
1:4:449:ASN:O	1:4:450:THR:OG1	2.20	0.56
1:4:240:ILE:HA	1:4:683:GLU:HA	1.88	0.56
1:7:413:TYR:OH	1:7:641:HIS:O	2.23	0.56
1:8:240:ILE:HA	1:8:683:GLU:HA	1.88	0.56
1:A:240:ILE:HA	1:A:683:GLU:HA	1.88	0.56
1:B:470:ILE:C	1:B:472:ASP:H	2.09	0.56
1:B:689:GLU:HG3	1:B:731:LEU:HD13	1.88	0.56
1:C:287:PHE:HB2	1:C:613:LEU:HA	1.88	0.56
1:D:287:PHE:CE1	1:D:684:TRP:HH2	2.24	0.56
1:D:698:ILE:O	1:N:701:THR:OG1	64.64	0.56
1:E:247:TRP:NE1	1:E:677:GLN:O	2.34	0.56
1:F:451:PRO:HB2	1:F:453:GLY:O	2.06	0.56
1:G:287:PHE:CE1	1:G:684:TRP:HH2	2.23	0.56
1:G:470:ILE:C	1:G:472:ASP:H	2.09	0.56
1:G:287:PHE:HB2	1:G:613:LEU:HA	1.88	0.56
1:I:451:PRO:HB2	1:I:453:GLY:O	2.06	0.56
1:J:451:PRO:HB2	1:J:453:GLY:O	2.06	0.56
1:K:470:ILE:C	1:K:472:ASP:H	2.09	0.56
1:K:240:ILE:HA	1:K:683:GLU:HA	1.88	0.56
1:M:451:PRO:HB2	1:M:453:GLY:O	2.06	0.56
1:M:240:ILE:HA	1:M:683:GLU:HA	1.88	0.56
1:O:447:ARG:HH12	1:O:450:THR:HG22	1.70	0.56
1:O:240:ILE:HA	1:O:683:GLU:HA	1.88	0.56
1:P:287:PHE:HB2	1:P:613:LEU:HA	1.88	0.56
1:P:470:ILE:C	1:P:472:ASP:H	2.09	0.56
1:P:240:ILE:HA	1:P:683:GLU:HA	1.88	0.56
1:S:470:ILE:C	1:S:472:ASP:H	2.09	0.56
1:T:416:GLU:CG	1:T:417:ASP:H	2.17	0.56
1:T:689:GLU:HG3	1:T:731:LEU:HD13	1.88	0.56
1:U:287:PHE:HB2	1:U:613:LEU:HA	1.87	0.56
1:W:247:TRP:NE1	1:W:677:GLN:O	2.34	0.56
1:W:715:ASP:OD1	1:W:716:THR:N	2.38	0.56
1:X:240:ILE:HA	1:X:683:GLU:HA	1.88	0.56
1:X:326:ASN:O	1:X:329:THR:OG1	2.19	0.56
1:X:689:GLU:HG3	1:X:731:LEU:HD13	1.88	0.56
1:Z:451:PRO:HB2	1:Z:453:GLY:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:240:ILE:HA	1:Z:683:GLU:HA	1.88	0.56
1:1:416:GLU:CG	1:1:417:ASP:H	2.17	0.56
1:6:451:PRO:HB2	1:6:453:GLY:O	2.06	0.56
1:7:470:ILE:C	1:7:472:ASP:H	2.09	0.56
1:D:240:ILE:HA	1:D:683:GLU:HA	1.88	0.56
1:D:715:ASP:OD1	1:D:716:THR:N	2.38	0.56
1:E:374:GLN:NE2	1:V:437:LEU:HD13	160.98	0.56
1:F:287:PHE:HB2	1:F:613:LEU:HA	1.88	0.56
1:H:240:ILE:HA	1:H:683:GLU:HA	1.88	0.56
1:J:545:GLN:OE1	1:J:545:GLN:N	2.34	0.56
1:K:287:PHE:CE1	1:K:684:TRP:HH2	2.24	0.56
1:L:451:PRO:HB2	1:L:453:GLY:O	2.06	0.56
1:N:715:ASP:OD1	1:N:716:THR:N	2.38	0.56
1:R:451:PRO:HB2	1:R:453:GLY:O	2.06	0.56
1:U:451:PRO:HB2	1:U:453:GLY:O	2.06	0.56
1:V:287:PHE:CE1	1:V:684:TRP:HH2	2.24	0.56
1:Y:451:PRO:HB2	1:Y:453:GLY:O	2.06	0.56
1:Y:287:PHE:HB2	1:Y:613:LEU:HA	1.88	0.56
1:Z:524:ALA:HB1	1:Z:572:ALA:HB2	1.87	0.56
1:1:689:GLU:HG3	1:1:731:LEU:HD13	1.88	0.56
1:4:287:PHE:HB2	1:4:613:LEU:HA	1.88	0.56
1:4:524:ALA:HB1	1:4:572:ALA:HB2	1.87	0.56
1:4:715:ASP:OD1	1:4:716:THR:N	2.39	0.56
1:7:350:LEU:HG	1:7:351:PRO:HD2	1.88	0.56
1:B:361:CYS:SG	1:B:362:LEU:N	2.72	0.56
1:C:350:LEU:HG	1:C:351:PRO:HD2	1.88	0.56
1:E:350:LEU:HG	1:E:351:PRO:HD2	1.88	0.56
1:E:413:TYR:OH	1:E:641:HIS:O	2.23	0.56
1:G:247:TRP:NE1	1:G:677:GLN:O	2.34	0.56
1:F:437:LEU:HD13	1:H:374:GLN:NE2	131.85	0.56
1:I:416:GLU:CG	1:I:417:ASP:H	2.17	0.56
1:J:437:LEU:HD13	1:K:374:GLN:NE2	40.65	0.56
1:K:287:PHE:CE1	1:K:617:ILE:HG12	2.41	0.56
1:L:350:LEU:HG	1:L:351:PRO:HD2	1.88	0.56
1:M:524:ALA:HB1	1:M:572:ALA:HB2	1.87	0.56
1:N:437:LEU:HD13	1:P:374:GLN:NE2	2.20	0.56
1:R:240:ILE:HA	1:R:683:GLU:HA	1.88	0.56
1:R:287:PHE:CE1	1:R:684:TRP:HH2	2.24	0.56
1:R:689:GLU:HG3	1:R:731:LEU:HD13	1.88	0.56
1:S:287:PHE:HB2	1:S:613:LEU:HA	1.88	0.56
1:S:240:ILE:HA	1:S:683:GLU:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:287:PHE:CE1	1:U:617:ILE:HG12	2.41	0.56
1:V:287:PHE:HB2	1:V:613:LEU:HA	1.88	0.56
1:V:451:PRO:HB2	1:V:453:GLY:O	2.06	0.56
1:H:437:LEU:HD13	1:W:374:GLN:NE2	2.20	0.56
1:Y:413:TYR:OH	1:Y:641:HIS:O	2.23	0.56
1:2:715:ASP:OD1	1:2:716:THR:N	2.38	0.56
1:5:287:PHE:HB2	1:5:613:LEU:HA	1.88	0.56
1:6:287:PHE:HB2	1:6:613:LEU:HA	1.87	0.56
1:7:451:PRO:HB2	1:7:453:GLY:O	2.06	0.56
1:8:447:ARG:HH12	1:8:450:THR:HG22	1.70	0.56
1:D:470:ILE:C	1:D:472:ASP:H	2.09	0.56
1:E:416:GLU:CG	1:E:417:ASP:H	2.17	0.56
1:E:447:ARG:HH12	1:E:450:THR:HG22	1.70	0.56
1:E:451:PRO:HB2	1:E:453:GLY:O	2.06	0.56
1:E:715:ASP:OD1	1:E:716:THR:N	2.39	0.56
1:H:287:PHE:CE1	1:H:617:ILE:HG12	2.42	0.56
1:H:287:PHE:HB2	1:H:613:LEU:HA	1.88	0.56
1:L:287:PHE:CE1	1:L:617:ILE:HG12	2.41	0.56
1:M:413:TYR:OH	1:M:641:HIS:O	2.23	0.56
1:N:240:ILE:HA	1:N:683:GLU:HA	1.88	0.56
1:P:447:ARG:HH12	1:P:450:THR:HG22	1.70	0.56
1:R:326:ASN:O	1:R:329:THR:OG1	2.19	0.56
1:R:350:LEU:HG	1:R:351:PRO:HD2	1.88	0.56
1:R:524:ALA:HB1	1:R:572:ALA:HB2	1.87	0.56
1:R:287:PHE:CE1	1:R:617:ILE:HG12	2.42	0.56
1:T:451:PRO:HB2	1:T:453:GLY:O	2.06	0.56
1:T:470:ILE:C	1:T:472:ASP:H	2.09	0.56
1:V:413:TYR:OH	1:V:641:HIS:O	2.24	0.56
1:W:689:GLU:HG3	1:W:731:LEU:HD13	1.88	0.56
1:X:416:GLU:CG	1:X:417:ASP:H	2.17	0.56
1:Y:287:PHE:CE1	1:Y:617:ILE:HG12	2.41	0.56
1:Y:350:LEU:HG	1:Y:351:PRO:HD2	1.88	0.56
1:Y:240:ILE:HA	1:Y:683:GLU:HA	1.88	0.56
1:Y:689:GLU:HG3	1:Y:731:LEU:HD13	1.88	0.56
1:Z:287:PHE:CE1	1:Z:617:ILE:HG12	2.41	0.56
1:Z:715:ASP:OD1	1:Z:716:THR:N	2.39	0.56
1:2:350:LEU:HG	1:2:351:PRO:HD2	1.88	0.55
1:2:287:PHE:CE1	1:2:684:TRP:HH2	2.24	0.55
1:8:524:ALA:HB1	1:8:572:ALA:HB2	1.87	0.55
1:8:287:PHE:CE1	1:8:617:ILE:HG12	2.41	0.55
1:A:451:PRO:HB2	1:A:453:GLY:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:524:ALA:HB1	1:B:572:ALA:HB2	1.87	0.55
1:B:287:PHE:CE1	1:B:684:TRP:HH2	2.24	0.55
1:B:374:GLN:NE2	1:C:437:LEU:HD13	68.18	0.55
1:D:350:LEU:HG	1:D:351:PRO:HD2	1.89	0.55
1:D:287:PHE:HB2	1:D:613:LEU:HA	1.87	0.55
1:F:287:PHE:CE1	1:F:617:ILE:HG12	2.42	0.55
1:G:416:GLU:CG	1:G:417:ASP:H	2.17	0.55
1:G:429:SER:OG	1:G:431:ASP:OD1	2.18	0.55
1:I:715:ASP:OD1	1:I:716:THR:N	2.38	0.55
1:K:416:GLU:CG	1:K:417:ASP:H	2.17	0.55
1:L:287:PHE:CE1	1:L:684:TRP:HH2	2.24	0.55
1:B:374:GLN:NE2	1:L:437:LEU:HD13	2.20	0.55
1:L:524:ALA:HB1	1:L:572:ALA:HB2	1.87	0.55
1:N:451:PRO:HB2	1:N:453:GLY:O	2.06	0.55
1:N:554:ILE:O	1:N:557:VAL:HG22	2.07	0.55
1:P:524:ALA:HB1	1:P:572:ALA:HB2	1.87	0.55
1:P:689:GLU:HG3	1:P:731:LEU:HD13	1.88	0.55
1:Q:350:LEU:HG	1:Q:351:PRO:HD2	1.88	0.55
1:Q:413:TYR:OH	1:Q:641:HIS:O	2.23	0.55
1:Q:287:PHE:HB2	1:Q:613:LEU:HA	1.88	0.55
1:Q:287:PHE:CE1	1:Q:684:TRP:HH2	2.24	0.55
1:Q:689:GLU:HG3	1:Q:731:LEU:HD13	1.88	0.55
1:R:554:ILE:O	1:R:557:VAL:HG22	2.07	0.55
1:S:287:PHE:CE1	1:S:617:ILE:HG12	2.42	0.55
1:V:287:PHE:CE1	1:V:617:ILE:HG12	2.41	0.55
1:W:350:LEU:HG	1:W:351:PRO:HD2	1.88	0.55
1:X:287:PHE:CE1	1:X:617:ILE:HG12	2.42	0.55
1:Y:287:PHE:CE1	1:Y:684:TRP:HH2	2.24	0.55
1:4:554:ILE:O	1:4:557:VAL:HG22	2.07	0.55
1:5:287:PHE:CE1	1:5:684:TRP:HH2	2.24	0.55
1:6:689:GLU:HG3	1:6:731:LEU:HD13	1.88	0.55
1:7:715:ASP:OD1	1:7:716:THR:N	2.39	0.55
1:A:554:ILE:O	1:A:557:VAL:HG22	2.07	0.55
1:C:492:SER:O	1:P:458:SER:OG	76.80	0.55
1:D:374:GLN:NE2	1:T:437:LEU:HD13	124.59	0.55
1:E:240:ILE:HA	1:E:683:GLU:HA	1.88	0.55
1:E:287:PHE:CE1	1:E:684:TRP:HH2	2.24	0.55
1:G:287:PHE:CE1	1:G:617:ILE:HG12	2.41	0.55
1:G:715:ASP:OD1	1:G:716:THR:N	2.38	0.55
1:H:287:PHE:CE1	1:H:684:TRP:HH2	2.24	0.55
1:H:350:LEU:HG	1:H:351:PRO:HD2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:326:ASN:O	1:I:329:THR:OG1	2.19	0.55
1:I:247:TRP:NE1	1:I:677:GLN:O	2.34	0.55
1:J:287:PHE:CE1	1:J:617:ILE:HG12	2.41	0.55
1:K:350:LEU:HG	1:K:351:PRO:HD2	1.88	0.55
1:O:247:TRP:NE1	1:O:677:GLN:O	2.34	0.55
1:P:287:PHE:CE1	1:P:617:ILE:HG12	2.41	0.55
1:T:554:ILE:O	1:T:557:VAL:HG22	2.07	0.55
1:U:689:GLU:HG3	1:U:731:LEU:HD13	1.88	0.55
1:W:374:GLN:NE2	1:Y:437:LEU:HD13	68.46	0.55
1:W:287:PHE:CE1	1:W:684:TRP:HH2	2.24	0.55
1:Y:554:ILE:O	1:Y:557:VAL:HG22	2.07	0.55
1:4:470:ILE:C	1:4:472:ASP:H	2.09	0.55
1:5:413:TYR:OH	1:5:641:HIS:O	2.23	0.55
1:7:287:PHE:CE1	1:7:617:ILE:HG12	2.41	0.55
1:7:416:GLU:CG	1:7:417:ASP:H	2.18	0.55
1:8:554:ILE:O	1:8:557:VAL:HG22	2.07	0.55
1:C:554:ILE:O	1:C:557:VAL:HG22	2.07	0.55
1:D:343:PHE:CD1	1:D:344:THR:N	2.75	0.55
1:D:689:GLU:HG3	1:D:731:LEU:HD13	1.88	0.55
1:E:287:PHE:CE1	1:E:617:ILE:HG12	2.41	0.55
1:G:350:LEU:HG	1:G:351:PRO:HD2	1.88	0.55
1:G:554:ILE:O	1:G:557:VAL:HG22	2.07	0.55
1:H:554:ILE:O	1:H:557:VAL:HG22	2.06	0.55
1:H:413:TYR:OH	1:H:641:HIS:O	2.23	0.55
1:I:287:PHE:CE1	1:I:617:ILE:HG12	2.41	0.55
1:K:451:PRO:HB2	1:K:453:GLY:O	2.06	0.55
1:K:689:GLU:HG3	1:K:731:LEU:HD13	1.88	0.55
1:L:554:ILE:O	1:L:557:VAL:HG22	2.07	0.55
1:L:689:GLU:HG3	1:L:731:LEU:HD13	1.88	0.55
1:M:287:PHE:CE1	1:M:617:ILE:HG12	2.41	0.55
1:O:554:ILE:O	1:O:557:VAL:HG22	2.07	0.55
1:P:350:LEU:HG	1:P:351:PRO:HD2	1.88	0.55
1:U:343:PHE:CD1	1:U:344:THR:N	2.75	0.55
1:V:350:LEU:HG	1:V:351:PRO:HD2	1.88	0.55
1:V:689:GLU:HG3	1:V:731:LEU:HD13	1.88	0.55
1:W:416:GLU:OE1	1:W:416:GLU:N	2.28	0.55
1:Z:413:TYR:OH	1:Z:641:HIS:O	2.23	0.55
1:1:451:PRO:HB2	1:1:453:GLY:O	2.06	0.55
1:3:350:LEU:HG	1:3:351:PRO:HD2	1.88	0.55
1:4:343:PHE:CD1	1:4:344:THR:N	2.75	0.55
1:5:451:PRO:HB2	1:5:453:GLY:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:343:PHE:CD1	1:7:344:THR:N	2.75	0.55
1:7:447:ARG:HH12	1:7:450:THR:HG22	1.70	0.55
1:8:470:ILE:C	1:8:472:ASP:H	2.09	0.55
1:A:247:TRP:NE1	1:A:677:GLN:O	2.34	0.55
1:B:343:PHE:CD1	1:B:344:THR:N	2.75	0.55
1:B:451:PRO:HB2	1:B:453:GLY:O	2.06	0.55
1:D:287:PHE:CE1	1:D:617:ILE:HG12	2.42	0.55
1:E:343:PHE:CD1	1:E:344:THR:N	2.75	0.55
1:E:416:GLU:OE1	1:E:416:GLU:N	2.28	0.55
1:G:343:PHE:CD1	1:G:344:THR:N	2.75	0.55
1:I:343:PHE:CD1	1:I:344:THR:N	2.75	0.55
1:I:429:SER:OG	1:I:431:ASP:OD1	2.18	0.55
1:L:240:ILE:HA	1:L:683:GLU:HA	1.88	0.55
1:M:343:PHE:CD1	1:M:344:THR:N	2.75	0.55
1:M:470:ILE:C	1:M:472:ASP:H	2.09	0.55
1:N:343:PHE:CD1	1:N:344:THR:N	2.75	0.55
1:N:470:ILE:C	1:N:472:ASP:H	2.09	0.55
1:O:437:LEU:HD13	1:P:374:GLN:NE2	68.17	0.55
1:P:554:ILE:O	1:P:557:VAL:HG22	2.07	0.55
1:R:715:ASP:OD1	1:R:716:THR:N	2.39	0.55
1:S:554:ILE:O	1:S:557:VAL:HG22	2.07	0.55
1:U:554:ILE:O	1:U:557:VAL:HG22	2.07	0.55
1:V:343:PHE:CD1	1:V:344:THR:N	2.75	0.55
1:V:554:ILE:O	1:V:557:VAL:HG22	2.07	0.55
1:Y:715:ASP:OD1	1:Y:716:THR:N	2.38	0.55
1:2:343:PHE:CD1	1:2:344:THR:N	2.75	0.55
1:3:240:ILE:HA	1:3:683:GLU:HA	1.88	0.55
1:5:343:PHE:CD1	1:5:344:THR:N	2.75	0.55
1:5:545:GLN:N	1:5:545:GLN:OE1	2.34	0.55
1:7:287:PHE:CE1	1:7:684:TRP:HH2	2.24	0.55
1:B:447:ARG:HH12	1:B:450:THR:HG22	1.70	0.55
1:C:499:GLU:HA	1:P:448:THR:HG23	71.69	0.55
1:D:437:LEU:HD13	1:N:374:GLN:NE2	2.20	0.55
1:D:451:PRO:HB2	1:D:453:GLY:O	2.06	0.55
1:E:554:ILE:O	1:E:557:VAL:HG22	2.06	0.55
1:F:554:ILE:O	1:F:557:VAL:HG22	2.07	0.55
1:G:240:ILE:HA	1:G:683:GLU:HA	1.88	0.55
1:H:715:ASP:OD1	1:H:716:THR:N	2.39	0.55
1:I:554:ILE:O	1:I:557:VAL:HG22	2.07	0.55
1:J:326:ASN:O	1:J:329:THR:OG1	2.19	0.55
1:J:343:PHE:CD1	1:J:344:THR:N	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:374:GLN:NE2	1:K:437:LEU:HD13	106.50	0.55
1:K:287:PHE:HB2	1:K:613:LEU:HA	1.88	0.55
1:K:413:TYR:OH	1:K:641:HIS:O	2.24	0.55
1:K:715:ASP:OD1	1:K:716:THR:N	2.38	0.55
1:M:326:ASN:O	1:M:329:THR:OG1	2.19	0.55
1:M:350:LEU:HG	1:M:351:PRO:HD2	1.88	0.55
1:O:350:LEU:HG	1:O:351:PRO:HD2	1.89	0.55
1:O:581:THR:N	1:O:591:ALA:O	2.37	0.55
1:Q:326:ASN:O	1:Q:329:THR:OG1	2.19	0.55
1:Q:343:PHE:CD1	1:Q:344:THR:N	2.75	0.55
1:T:413:TYR:OH	1:T:641:HIS:O	2.23	0.55
1:W:287:PHE:HB2	1:W:613:LEU:HA	1.88	0.55
1:W:343:PHE:CD1	1:W:344:THR:N	2.75	0.55
1:W:554:ILE:O	1:W:557:VAL:HG22	2.07	0.55
1:X:350:LEU:HG	1:X:351:PRO:HD2	1.89	0.55
1:1:287:PHE:HB2	1:1:613:LEU:HA	1.88	0.55
1:2:451:PRO:HB2	1:2:453:GLY:O	2.06	0.55
1:3:447:ARG:HH12	1:3:450:THR:HG22	1.70	0.55
1:3:413:TYR:OH	1:3:641:HIS:O	2.23	0.55
1:8:287:PHE:HB2	1:8:613:LEU:HA	1.87	0.55
1:8:581:THR:N	1:8:591:ALA:O	2.37	0.55
1:B:247:TRP:NE1	1:B:677:GLN:O	2.34	0.55
1:C:343:PHE:CD1	1:C:344:THR:N	2.75	0.55
1:C:287:PHE:CE1	1:C:617:ILE:HG12	2.41	0.55
1:E:689:GLU:HG3	1:E:731:LEU:HD13	1.88	0.55
1:F:343:PHE:CD1	1:F:344:THR:N	2.75	0.55
1:H:343:PHE:CD1	1:H:344:THR:N	2.75	0.55
1:I:287:PHE:HB2	1:I:613:LEU:HA	1.88	0.55
1:J:554:ILE:O	1:J:557:VAL:HG22	2.07	0.55
1:J:609:ARG:HG2	1:J:610:ASP:N	2.22	0.55
1:K:343:PHE:CD1	1:K:344:THR:N	2.75	0.55
1:L:413:TYR:OH	1:L:641:HIS:O	2.23	0.55
1:M:609:ARG:HG2	1:M:610:ASP:N	2.22	0.55
1:O:545:GLN:N	1:O:545:GLN:OE1	2.34	0.55
1:Q:554:ILE:O	1:Q:557:VAL:HG22	2.07	0.55
1:S:343:PHE:CD1	1:S:344:THR:N	2.75	0.55
1:U:437:LEU:HD13	1:V:374:GLN:NE2	40.64	0.55
1:V:545:GLN:N	1:V:545:GLN:OE1	2.34	0.55
1:X:287:PHE:HB2	1:X:613:LEU:HA	1.88	0.55
1:X:554:ILE:O	1:X:557:VAL:HG22	2.06	0.55
1:Z:343:PHE:CD1	1:Z:344:THR:N	2.75	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:350:LEU:HG	1:Z:351:PRO:HD2	1.89	0.55
1:Z:416:GLU:CG	1:Z:417:ASP:H	2.17	0.55
1:Z:554:ILE:O	1:Z:557:VAL:HG22	2.07	0.55
1:2:287:PHE:CE1	1:2:617:ILE:HG12	2.42	0.55
1:4:287:PHE:CE1	1:4:617:ILE:HG12	2.42	0.55
1:6:287:PHE:CE1	1:6:617:ILE:HG12	2.41	0.55
1:6:554:ILE:O	1:6:557:VAL:HG22	2.07	0.55
1:7:554:ILE:O	1:7:557:VAL:HG22	2.07	0.55
1:B:350:LEU:HG	1:B:351:PRO:HD2	1.88	0.55
1:B:554:ILE:O	1:B:557:VAL:HG22	2.06	0.55
1:C:609:ARG:HG2	1:C:610:ASP:N	2.22	0.55
1:E:449:ASN:O	1:E:450:THR:OG1	2.20	0.55
1:L:416:GLU:OE1	1:L:416:GLU:N	2.28	0.55
1:L:609:ARG:HG2	1:L:610:ASP:N	2.22	0.55
1:O:413:TYR:OH	1:O:641:HIS:O	2.23	0.55
1:Q:287:PHE:CE1	1:Q:617:ILE:HG12	2.41	0.55
1:R:413:TYR:OH	1:R:641:HIS:O	2.23	0.55
1:V:715:ASP:OD1	1:V:716:THR:N	2.39	0.55
1:W:413:TYR:OH	1:W:641:HIS:O	2.23	0.55
1:W:545:GLN:N	1:W:545:GLN:OE1	2.34	0.55
1:Y:545:GLN:N	1:Y:545:GLN:OE1	2.34	0.55
1:Z:470:ILE:C	1:Z:472:ASP:H	2.09	0.55
1:1:343:PHE:CD1	1:1:344:THR:N	2.75	0.55
1:3:554:ILE:O	1:3:557:VAL:HG22	2.07	0.55
1:3:581:THR:N	1:3:591:ALA:O	2.37	0.55
1:5:287:PHE:CE1	1:5:617:ILE:HG12	2.41	0.55
1:7:689:GLU:HG3	1:7:731:LEU:HD13	1.88	0.55
1:A:374:GLN:NE2	1:I:437:LEU:HD13	2.20	0.55
1:D:437:LEU:HD13	1:L:374:GLN:NE2	131.86	0.55
1:E:609:ARG:HG2	1:E:610:ASP:N	2.22	0.55
1:J:413:TYR:OH	1:J:641:HIS:O	2.23	0.55
1:D:701:THR:OG1	1:M:698:ILE:O	2.19	0.55
1:N:416:GLU:CG	1:N:417:ASP:H	2.17	0.55
1:N:287:PHE:CE1	1:N:617:ILE:HG12	2.42	0.55
1:O:287:PHE:CE1	1:O:617:ILE:HG12	2.41	0.55
1:O:343:PHE:CD1	1:O:344:THR:N	2.75	0.55
1:P:609:ARG:HG2	1:P:610:ASP:N	2.22	0.55
1:U:609:ARG:HG2	1:U:610:ASP:N	2.22	0.55
1:V:240:ILE:HA	1:V:683:GLU:HA	1.88	0.55
1:3:343:PHE:CD1	1:3:344:THR:N	2.75	0.55
1:6:609:ARG:HG2	1:6:610:ASP:N	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:416:GLU:OE1	1:7:416:GLU:N	2.28	0.55
1:7:609:ARG:HG2	1:7:610:ASP:N	2.22	0.55
1:A:350:LEU:HG	1:A:351:PRO:HD2	1.88	0.55
1:A:416:GLU:CG	1:A:417:ASP:H	2.17	0.55
1:B:715:ASP:OD1	1:B:716:THR:N	2.39	0.55
1:E:545:GLN:OE1	1:E:545:GLN:N	2.34	0.55
1:G:609:ARG:HG2	1:G:610:ASP:N	2.22	0.55
1:H:689:GLU:HG3	1:H:731:LEU:HD13	1.88	0.55
1:I:545:GLN:N	1:I:545:GLN:OE1	2.34	0.55
1:P:343:PHE:CD1	1:P:344:THR:N	2.75	0.55
1:P:429:SER:OG	1:P:431:ASP:OD1	2.18	0.55
1:Q:545:GLN:OE1	1:Q:545:GLN:N	2.34	0.55
1:S:437:LEU:HD13	1:U:374:GLN:NE2	2.20	0.55
1:T:343:PHE:CD1	1:T:344:THR:N	2.75	0.55
1:V:609:ARG:HG2	1:V:610:ASP:N	2.22	0.55
1:W:609:ARG:HG2	1:W:610:ASP:N	2.22	0.55
1:X:609:ARG:HG2	1:X:610:ASP:N	2.22	0.55
1:Z:545:GLN:OE1	1:Z:545:GLN:N	2.34	0.55
1:Z:609:ARG:HG2	1:Z:610:ASP:N	2.22	0.55
1:1:240:ILE:HA	1:1:683:GLU:HA	1.88	0.55
1:A:287:PHE:CE1	1:A:617:ILE:HG12	2.41	0.55
1:A:343:PHE:CD1	1:A:344:THR:N	2.75	0.55
1:A:545:GLN:OE1	1:A:545:GLN:N	2.34	0.55
1:A:609:ARG:HG2	1:A:610:ASP:N	2.22	0.55
1:F:581:THR:N	1:F:591:ALA:O	2.37	0.55
1:F:413:TYR:OH	1:F:641:HIS:O	2.23	0.55
1:G:545:GLN:N	1:G:545:GLN:OE1	2.34	0.55
1:M:545:GLN:N	1:M:545:GLN:OE1	2.34	0.55
1:N:350:LEU:HG	1:N:351:PRO:HD2	1.88	0.55
1:Q:374:GLN:NE2	1:S:437:LEU:HD13	104.29	0.55
1:R:343:PHE:CD1	1:R:344:THR:N	2.75	0.55
1:T:240:ILE:HA	1:T:683:GLU:HA	1.88	0.55
1:V:416:GLU:N	1:V:416:GLU:OE1	2.28	0.55
1:X:625:ASP:OD1	1:X:625:ASP:N	2.23	0.55
1:Y:343:PHE:CD1	1:Y:344:THR:N	2.75	0.55
1:2:287:PHE:HB2	1:2:613:LEU:HA	1.88	0.54
1:2:689:GLU:HG3	1:2:731:LEU:HD13	1.88	0.54
1:4:416:GLU:CG	1:4:417:ASP:H	2.17	0.54
1:5:447:ARG:HH12	1:5:450:THR:HG22	1.70	0.54
1:7:394:CYS:O	1:7:395:LEU:HB2	2.08	0.54
1:8:343:PHE:CD1	1:8:344:THR:N	2.75	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:287:PHE:CE1	1:B:617:ILE:HG12	2.41	0.54
1:C:715:ASP:OD1	1:C:716:THR:N	2.39	0.54
1:E:394:CYS:O	1:E:395:LEU:HB2	2.08	0.54
1:F:609:ARG:HG2	1:F:610:ASP:N	2.22	0.54
1:H:609:ARG:HG2	1:H:610:ASP:N	2.22	0.54
1:J:581:THR:N	1:J:591:ALA:O	2.37	0.54
1:K:554:ILE:O	1:K:557:VAL:HG22	2.06	0.54
1:K:609:ARG:HG2	1:K:610:ASP:N	2.22	0.54
1:L:715:ASP:OD1	1:L:716:THR:N	2.39	0.54
1:M:416:GLU:CG	1:M:417:ASP:H	2.18	0.54
1:N:609:ARG:HG2	1:N:610:ASP:N	2.22	0.54
1:O:394:CYS:O	1:O:395:LEU:HB2	2.08	0.54
1:P:545:GLN:N	1:P:545:GLN:OE1	2.34	0.54
1:Q:609:ARG:HG2	1:Q:610:ASP:N	2.22	0.54
1:S:689:GLU:HG3	1:S:731:LEU:HD13	1.88	0.54
1:T:287:PHE:CE1	1:T:617:ILE:HG12	2.41	0.54
1:W:449:ASN:O	1:W:450:THR:OG1	2.20	0.54
1:W:287:PHE:CE1	1:W:617:ILE:HG12	2.41	0.54
1:3:394:CYS:O	1:3:395:LEU:HB2	2.08	0.54
1:6:240:ILE:HA	1:6:683:GLU:HA	1.88	0.54
1:8:394:CYS:O	1:8:395:LEU:HB2	2.08	0.54
1:8:429:SER:OG	1:8:431:ASP:OD1	2.18	0.54
1:A:394:CYS:O	1:A:395:LEU:HB2	2.08	0.54
1:F:350:LEU:HG	1:F:351:PRO:HD2	1.88	0.54
1:G:394:CYS:O	1:G:395:LEU:HB2	2.08	0.54
1:J:698:ILE:O	1:K:701:THR:OG1	2.19	0.54
1:L:343:PHE:CD1	1:L:344:THR:N	2.75	0.54
1:P:259:GLN:HB3	1:6:715:ASP:O	179.76	0.54
1:P:394:CYS:O	1:P:395:LEU:HB2	2.08	0.54
1:S:545:GLN:N	1:S:545:GLN:OE1	2.34	0.54
1:X:394:CYS:O	1:X:395:LEU:HB2	2.08	0.54
1:1:571:VAL:HG12	1:1:572:ALA:N	2.23	0.54
1:1:287:PHE:CE1	1:1:617:ILE:HG12	2.41	0.54
1:3:287:PHE:CE1	1:3:617:ILE:HG12	2.42	0.54
1:7:240:ILE:HA	1:7:683:GLU:HA	1.88	0.54
1:C:508:TYR:HA	1:P:577:GLY:HA3	75.19	0.54
1:F:240:ILE:HA	1:F:683:GLU:HA	1.88	0.54
1:G:484:ARG:HB2	1:H:579:VAL:HG22	79.13	0.54
1:L:545:GLN:OE1	1:L:545:GLN:N	2.34	0.54
1:O:416:GLU:CG	1:O:417:ASP:H	2.17	0.54
1:S:715:ASP:OD1	1:S:716:THR:N	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:350:LEU:HG	1:T:351:PRO:HD2	1.88	0.54
1:U:715:ASP:OD1	1:U:716:THR:N	2.39	0.54
1:X:343:PHE:CD1	1:X:344:THR:N	2.75	0.54
1:Y:416:GLU:OE1	1:Y:416:GLU:N	2.28	0.54
1:Z:361:CYS:SG	1:Z:362:LEU:N	2.72	0.54
1:1:350:LEU:HG	1:1:351:PRO:HD2	1.88	0.54
1:3:416:GLU:CG	1:3:417:ASP:H	2.18	0.54
1:B:394:CYS:O	1:B:395:LEU:HB2	2.08	0.54
1:B:413:TYR:OH	1:B:641:HIS:O	2.23	0.54
1:D:394:CYS:O	1:D:395:LEU:HB2	2.08	0.54
1:I:394:CYS:O	1:I:395:LEU:HB2	2.08	0.54
1:O:715:ASP:OD1	1:O:716:THR:N	2.38	0.54
1:P:449:ASN:O	1:P:450:THR:OG1	2.20	0.54
1:Q:484:ARG:HB2	1:S:579:VAL:HG22	88.17	0.54
1:Q:579:VAL:HG22	1:R:484:ARG:HB2	79.13	0.54
1:R:609:ARG:HG2	1:R:610:ASP:N	2.22	0.54
1:S:609:ARG:HG2	1:S:610:ASP:N	2.22	0.54
1:T:571:VAL:HG12	1:T:572:ALA:N	2.23	0.54
1:U:240:ILE:HA	1:U:683:GLU:HA	1.88	0.54
1:1:413:TYR:OH	1:1:641:HIS:O	2.23	0.54
1:5:240:ILE:HA	1:5:683:GLU:HA	1.88	0.54
1:6:350:LEU:HG	1:6:351:PRO:HD2	1.89	0.54
1:B:287:PHE:HB2	1:B:613:LEU:HA	1.88	0.54
1:D:554:ILE:O	1:D:557:VAL:HG22	2.07	0.54
1:G:581:THR:N	1:G:591:ALA:O	2.37	0.54
1:G:693:ARG:NH1	1:I:391:SER:HA	2.22	0.54
1:G:698:ILE:O	1:H:701:THR:OG1	2.17	0.54
1:H:571:VAL:HG12	1:H:572:ALA:N	2.23	0.54
1:J:394:CYS:O	1:J:395:LEU:HB2	2.08	0.54
1:J:416:GLU:CG	1:J:417:ASP:H	2.17	0.54
1:K:394:CYS:O	1:K:395:LEU:HB2	2.08	0.54
1:K:571:VAL:HG12	1:K:572:ALA:N	2.23	0.54
1:M:394:CYS:O	1:M:395:LEU:HB2	2.08	0.54
1:N:394:CYS:O	1:N:395:LEU:HB2	2.08	0.54
1:N:579:VAL:HG22	1:O:484:ARG:HB2	79.13	0.54
1:R:571:VAL:HG12	1:R:572:ALA:N	2.23	0.54
1:R:579:VAL:HG22	1:S:484:ARG:HB2	1.90	0.54
1:R:581:THR:N	1:R:591:ALA:O	2.37	0.54
1:Q:391:SER:HA	1:S:693:ARG:NH1	100.48	0.54
1:T:609:ARG:HG2	1:T:610:ASP:N	2.22	0.54
1:Y:571:VAL:HG12	1:Y:572:ALA:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:701:THR:OG1	1:Z:698:ILE:O	71.60	0.54
1:4:394:CYS:O	1:4:395:LEU:HB2	2.08	0.54
1:4:451:PRO:HB2	1:4:453:GLY:O	2.06	0.54
1:8:609:ARG:HG2	1:8:610:ASP:N	2.22	0.54
1:A:715:ASP:OD1	1:A:716:THR:N	2.39	0.54
1:B:240:ILE:HA	1:B:683:GLU:HA	1.88	0.54
1:C:484:ARG:HB2	1:M:579:VAL:HG22	1.90	0.54
1:D:581:THR:N	1:D:591:ALA:O	2.37	0.54
1:E:571:VAL:HG12	1:E:572:ALA:N	2.23	0.54
1:F:247:TRP:NE1	1:F:677:GLN:O	2.34	0.54
1:H:545:GLN:OE1	1:H:545:GLN:N	2.34	0.54
1:J:350:LEU:HG	1:J:351:PRO:HD2	1.88	0.54
1:J:579:VAL:HG22	1:L:484:ARG:HB2	1.90	0.54
1:I:484:ARG:HB2	1:K:579:VAL:HG22	129.87	0.54
1:N:437:LEU:HD13	1:O:374:GLN:NE2	40.65	0.54
1:P:416:GLU:CG	1:P:417:ASP:H	2.18	0.54
1:Q:394:CYS:O	1:Q:395:LEU:HB2	2.08	0.54
1:R:416:GLU:CG	1:R:417:ASP:H	2.17	0.54
1:U:326:ASN:O	1:U:329:THR:OG1	2.19	0.54
1:V:571:VAL:HG12	1:V:572:ALA:N	2.23	0.54
1:X:579:VAL:HG22	1:Y:484:ARG:HB2	92.19	0.54
1:W:579:VAL:HG22	1:Y:484:ARG:HB2	1.90	0.54
1:Z:571:VAL:HG12	1:Z:572:ALA:N	2.23	0.54
1:4:609:ARG:HG2	1:4:610:ASP:N	2.22	0.54
1:7:571:VAL:HG12	1:7:572:ALA:N	2.23	0.54
1:A:437:LEU:HD13	1:8:374:GLN:NE2	173.70	0.54
1:8:416:GLU:CG	1:8:417:ASP:H	2.17	0.54
1:8:451:PRO:HB2	1:8:453:GLY:O	2.06	0.54
1:8:689:GLU:HG3	1:8:731:LEU:HD13	1.88	0.54
1:I:609:ARG:HG2	1:I:610:ASP:N	2.22	0.54
1:K:581:THR:N	1:K:591:ALA:O	2.37	0.54
1:M:429:SER:OG	1:M:431:ASP:OD1	2.18	0.54
1:M:554:ILE:O	1:M:557:VAL:HG22	2.07	0.54
1:N:571:VAL:HG12	1:N:572:ALA:N	2.23	0.54
1:N:413:TYR:OH	1:N:641:HIS:O	2.23	0.54
1:C:437:LEU:HD13	1:O:374:GLN:NE2	170.29	0.54
1:Z:579:VAL:HG22	1:4:484:ARG:HB2	1.90	0.54
1:2:470:ILE:C	1:2:472:ASP:H	2.09	0.54
1:2:609:ARG:HG2	1:2:610:ASP:N	2.22	0.54
1:6:343:PHE:CD1	1:6:344:THR:N	2.75	0.54
1:6:247:TRP:NE1	1:6:677:GLN:O	2.34	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:571:VAL:HG12	1:A:572:ALA:N	2.23	0.54
1:I:350:LEU:HG	1:I:351:PRO:HD2	1.88	0.54
1:K:545:GLN:N	1:K:545:GLN:OE1	2.34	0.54
1:M:571:VAL:HG12	1:M:572:ALA:N	2.23	0.54
1:S:350:LEU:HG	1:S:351:PRO:HD2	1.88	0.54
1:W:394:CYS:O	1:W:395:LEU:HB2	2.08	0.54
1:H:579:VAL:HG22	1:W:484:ARG:HB2	1.90	0.54
1:W:571:VAL:HG12	1:W:572:ALA:N	2.23	0.54
1:5:715:ASP:OD1	1:5:716:THR:N	2.39	0.54
1:8:350:LEU:HG	1:8:351:PRO:HD2	1.89	0.54
1:8:413:TYR:OH	1:8:641:HIS:O	2.23	0.54
1:A:413:TYR:OH	1:A:641:HIS:O	2.24	0.54
1:F:416:GLU:N	1:F:416:GLU:OE1	2.28	0.54
1:I:581:THR:N	1:I:591:ALA:O	2.37	0.54
1:J:715:ASP:OD1	1:J:716:THR:N	2.38	0.54
1:J:564:GLU:OE1	1:J:729:ARG:HB2	2.08	0.54
1:T:715:ASP:OD1	1:T:716:THR:N	2.39	0.54
1:U:350:LEU:HG	1:U:351:PRO:HD2	1.89	0.54
1:V:326:ASN:O	1:V:329:THR:OG1	2.19	0.54
1:V:394:CYS:O	1:V:395:LEU:HB2	2.08	0.54
1:Y:394:CYS:O	1:Y:395:LEU:HB2	2.08	0.54
1:1:554:ILE:O	1:1:557:VAL:HG22	2.07	0.54
1:2:554:ILE:O	1:2:557:VAL:HG22	2.07	0.54
1:3:484:ARG:HB2	1:4:579:VAL:HG22	1.90	0.54
1:3:689:GLU:HG3	1:3:731:LEU:HD13	1.88	0.54
1:5:689:GLU:HG3	1:5:731:LEU:HD13	1.88	0.54
1:C:571:VAL:HG12	1:C:572:ALA:N	2.23	0.54
1:D:609:ARG:HG2	1:D:610:ASP:N	2.22	0.54
1:D:564:GLU:OE1	1:D:729:ARG:HB2	2.09	0.54
1:F:564:GLU:OE1	1:F:729:ARG:HB2	2.08	0.54
1:G:564:GLU:OE1	1:G:729:ARG:HB2	2.08	0.54
1:H:394:CYS:O	1:H:395:LEU:HB2	2.08	0.54
1:I:571:VAL:HG12	1:I:572:ALA:N	2.23	0.54
1:J:429:SER:OG	1:J:431:ASP:OD1	2.18	0.54
1:K:564:GLU:OE1	1:K:729:ARG:HB2	2.09	0.54
1:N:247:TRP:NE1	1:N:677:GLN:O	2.34	0.54
1:P:564:GLU:OE1	1:P:729:ARG:HB2	2.09	0.54
1:T:564:GLU:OE1	1:T:729:ARG:HB2	2.08	0.54
1:Y:609:ARG:HG2	1:Y:610:ASP:N	2.22	0.54
1:2:416:GLU:N	1:2:416:GLU:OE1	2.28	0.53
1:2:571:VAL:HG12	1:2:572:ALA:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:484:ARG:HB2	1:3:579:VAL:HG22	1.90	0.53
1:4:350:LEU:HG	1:4:351:PRO:HD2	1.89	0.53
1:5:350:LEU:HG	1:5:351:PRO:HD2	1.89	0.53
1:5:554:ILE:O	1:5:557:VAL:HG22	2.07	0.53
1:6:564:GLU:OE1	1:6:729:ARG:HB2	2.08	0.53
1:F:394:CYS:O	1:F:395:LEU:HB2	2.08	0.53
1:H:564:GLU:OE1	1:H:729:ARG:HB2	2.08	0.53
1:A:484:ARG:HB2	1:K:579:VAL:HG22	145.56	0.53
1:M:715:ASP:OD1	1:M:716:THR:N	2.39	0.53
1:M:484:ARG:HB2	1:O:579:VAL:HG22	129.87	0.53
1:Q:571:VAL:HG12	1:Q:572:ALA:N	2.23	0.53
1:R:416:GLU:N	1:R:416:GLU:OE1	2.28	0.53
1:R:564:GLU:OE1	1:R:729:ARG:HB2	2.08	0.53
1:S:394:CYS:O	1:S:395:LEU:HB2	2.08	0.53
1:S:564:GLU:OE1	1:S:729:ARG:HB2	2.08	0.53
1:U:545:GLN:N	1:U:545:GLN:OE1	2.34	0.53
1:V:313:PHE:HD1	1:V:680:VAL:HG12	1.74	0.53
1:V:484:ARG:HB2	1:X:579:VAL:HG22	1.90	0.53
1:Z:564:GLU:OE1	1:Z:729:ARG:HB2	2.08	0.53
1:1:313:PHE:HD1	1:1:680:VAL:HG12	1.74	0.53
1:1:564:GLU:OE1	1:1:729:ARG:HB2	2.08	0.53
1:3:374:GLN:NE2	1:4:437:LEU:HD13	2.20	0.53
1:5:571:VAL:HG12	1:5:572:ALA:N	2.23	0.53
1:5:609:ARG:HG2	1:5:610:ASP:N	2.22	0.53
1:8:295:ASP:OD1	1:8:298:ARG:NH1	2.42	0.53
1:D:571:VAL:HG12	1:D:572:ALA:N	2.23	0.53
1:E:295:ASP:OD1	1:E:298:ARG:NH1	2.42	0.53
1:F:313:PHE:HD1	1:F:680:VAL:HG12	1.74	0.53
1:H:484:ARG:HB2	1:Y:579:VAL:HG22	1.90	0.53
1:P:413:TYR:OH	1:P:641:HIS:O	2.24	0.53
1:R:313:PHE:HD1	1:R:680:VAL:HG12	1.74	0.53
1:R:394:CYS:O	1:R:395:LEU:HB2	2.07	0.53
1:U:394:CYS:O	1:U:395:LEU:HB2	2.08	0.53
1:Z:484:ARG:HB2	1:2:579:VAL:HG22	96.59	0.53
1:1:523:MET:HG3	1:1:524:ALA:CB	2.39	0.53
1:4:523:MET:HG3	1:4:524:ALA:CB	2.39	0.53
1:5:470:ILE:C	1:5:472:ASP:H	2.09	0.53
1:6:313:PHE:HD1	1:6:680:VAL:HG12	1.74	0.53
1:6:394:CYS:O	1:6:395:LEU:HB2	2.08	0.53
1:6:413:TYR:OH	1:6:641:HIS:O	2.23	0.53
1:7:313:PHE:HD1	1:7:680:VAL:HG12	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:484:ARG:HB2	1:P:579:VAL:HG22	1.90	0.53
1:G:523:MET:HG3	1:G:524:ALA:CB	2.39	0.53
1:G:571:VAL:HG12	1:G:572:ALA:N	2.23	0.53
1:I:523:MET:HG3	1:I:524:ALA:CB	2.39	0.53
1:I:564:GLU:OE1	1:I:729:ARG:HB2	2.09	0.53
1:J:247:TRP:NE1	1:J:677:GLN:O	2.34	0.53
1:J:313:PHE:HD1	1:J:680:VAL:HG12	1.74	0.53
1:K:582:ASN:OD1	1:K:591:ALA:N	2.35	0.53
1:L:523:MET:HG3	1:L:524:ALA:CB	2.39	0.53
1:M:564:GLU:OE1	1:M:729:ARG:HB2	2.08	0.53
1:D:579:VAL:HG22	1:N:484:ARG:HB2	1.90	0.53
1:N:523:MET:HG3	1:N:524:ALA:CB	2.39	0.53
1:P:295:ASP:OD1	1:P:298:ARG:NH1	2.42	0.53
1:Q:295:ASP:OD1	1:Q:298:ARG:NH1	2.42	0.53
1:Q:470:ILE:C	1:Q:472:ASP:H	2.09	0.53
1:S:295:ASP:OD1	1:S:298:ARG:NH1	2.42	0.53
1:T:394:CYS:O	1:T:395:LEU:HB2	2.08	0.53
1:T:313:PHE:HD1	1:T:680:VAL:HG12	1.74	0.53
1:U:247:TRP:NE1	1:U:677:GLN:O	2.34	0.53
1:E:484:ARG:HB2	1:V:579:VAL:HG22	157.50	0.53
1:W:295:ASP:OD1	1:W:298:ARG:NH1	2.42	0.53
1:Y:564:GLU:OE1	1:Y:729:ARG:HB2	2.09	0.53
1:3:295:ASP:OD1	1:3:298:ARG:NH1	2.42	0.53
1:4:295:ASP:OD1	1:4:298:ARG:NH1	2.42	0.53
1:5:295:ASP:OD1	1:5:298:ARG:NH1	2.42	0.53
1:K:484:ARG:HB2	1:8:579:VAL:HG22	1.90	0.53
1:A:581:THR:N	1:A:591:ALA:O	2.37	0.53
1:C:295:ASP:OD1	1:C:298:ARG:NH1	2.42	0.53
1:D:295:ASP:OD1	1:D:298:ARG:NH1	2.42	0.53
1:E:313:PHE:HD1	1:E:680:VAL:HG12	1.74	0.53
1:E:441:TYR:HA	1:E:464:GLN:NE2	2.24	0.53
1:G:441:TYR:HA	1:G:464:GLN:NE2	2.24	0.53
1:H:295:ASP:OD1	1:H:298:ARG:NH1	2.42	0.53
1:J:441:TYR:HA	1:J:464:GLN:NE2	2.24	0.53
1:B:579:VAL:HG22	1:J:484:ARG:HB2	1.90	0.53
1:K:295:ASP:OD1	1:K:298:ARG:NH1	2.42	0.53
1:M:295:ASP:OD1	1:M:298:ARG:NH1	2.42	0.53
1:B:579:VAL:HG22	1:M:484:ARG:HB2	105.73	0.53
1:M:523:MET:HG3	1:M:524:ALA:CB	2.39	0.53
1:N:295:ASP:OD1	1:N:298:ARG:NH1	2.42	0.53
1:M:579:VAL:HG22	1:N:484:ARG:HB2	92.18	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:295:ASP:OD1	1:O:298:ARG:NH1	2.42	0.53
1:O:609:ARG:HG2	1:O:610:ASP:N	2.22	0.53
1:Q:581:THR:N	1:Q:591:ALA:O	2.37	0.53
1:Q:564:GLU:OE1	1:Q:729:ARG:HB2	2.08	0.53
1:S:416:GLU:CG	1:S:417:ASP:H	2.17	0.53
1:S:313:PHE:HD1	1:S:680:VAL:HG12	1.74	0.53
1:T:523:MET:HG3	1:T:524:ALA:CB	2.39	0.53
1:U:313:PHE:HD1	1:U:680:VAL:HG12	1.74	0.53
1:W:564:GLU:OE1	1:W:729:ARG:HB2	2.09	0.53
1:W:581:THR:N	1:W:591:ALA:O	2.37	0.53
1:X:295:ASP:OD1	1:X:298:ARG:NH1	2.42	0.53
1:X:313:PHE:HD1	1:X:680:VAL:HG12	1.74	0.53
1:W:484:ARG:HB2	1:Y:579:VAL:HG22	19.17	0.53
1:Y:313:PHE:HD1	1:Y:680:VAL:HG12	1.74	0.53
1:Z:295:ASP:OD1	1:Z:298:ARG:NH1	2.42	0.53
1:Z:394:CYS:O	1:Z:395:LEU:HB2	2.08	0.53
1:Z:523:MET:HG3	1:Z:524:ALA:CB	2.39	0.53
1:1:394:CYS:O	1:1:395:LEU:HB2	2.08	0.53
1:2:247:TRP:NE1	1:2:677:GLN:O	2.34	0.53
1:2:564:GLU:OE1	1:2:729:ARG:HB2	2.08	0.53
1:5:581:THR:N	1:5:591:ALA:O	2.37	0.53
1:8:571:VAL:HG12	1:8:572:ALA:N	2.23	0.53
1:B:416:GLU:CG	1:B:417:ASP:H	2.17	0.53
1:C:523:MET:HG3	1:C:524:ALA:CB	2.39	0.53
1:A:579:VAL:HG22	1:G:484:ARG:HB2	1.91	0.53
1:I:441:TYR:HA	1:I:464:GLN:NE2	2.24	0.53
1:J:571:VAL:HG12	1:J:572:ALA:N	2.23	0.53
1:L:394:CYS:O	1:L:395:LEU:HB2	2.08	0.53
1:M:441:TYR:HA	1:M:464:GLN:NE2	2.24	0.53
1:M:247:TRP:NE1	1:M:677:GLN:O	2.34	0.53
1:N:441:TYR:HA	1:N:464:GLN:NE2	2.24	0.53
1:O:441:TYR:HA	1:O:464:GLN:NE2	2.24	0.53
1:O:571:VAL:HG12	1:O:572:ALA:N	2.23	0.53
1:P:441:TYR:HA	1:P:464:GLN:NE2	2.24	0.53
1:P:571:VAL:HG12	1:P:572:ALA:N	2.23	0.53
1:Q:523:MET:HG3	1:Q:524:ALA:CB	2.39	0.53
1:D:484:ARG:HB2	1:T:579:VAL:HG22	144.56	0.53
1:V:295:ASP:OD1	1:V:298:ARG:NH1	2.42	0.53
1:W:441:TYR:HA	1:W:464:GLN:NE2	2.24	0.53
1:2:394:CYS:O	1:2:395:LEU:HB2	2.08	0.53
1:3:441:TYR:HA	1:3:464:GLN:NE2	2.24	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:571:VAL:HG12	1:3:572:ALA:N	2.23	0.53
1:4:413:TYR:OH	1:4:641:HIS:O	2.23	0.53
1:5:523:MET:HG3	1:5:524:ALA:CB	2.39	0.53
1:5:564:GLU:OE1	1:5:729:ARG:HB2	2.08	0.53
1:6:441:TYR:HA	1:6:464:GLN:NE2	2.24	0.53
1:8:564:GLU:OE1	1:8:729:ARG:HB2	2.09	0.53
1:K:508:TYR:HA	1:8:577:GLY:HA3	1.91	0.53
1:A:441:TYR:HA	1:A:464:GLN:NE2	2.24	0.53
1:A:564:GLU:OE1	1:A:729:ARG:HB2	2.09	0.53
1:B:295:ASP:OD1	1:B:298:ARG:NH1	2.42	0.53
1:B:484:ARG:HB2	1:L:579:VAL:HG22	1.90	0.53
1:C:313:PHE:HD1	1:C:680:VAL:HG12	1.74	0.53
1:D:582:ASN:OD1	1:D:591:ALA:N	2.35	0.53
1:D:247:TRP:NE1	1:D:677:GLN:O	2.34	0.53
1:F:571:VAL:HG12	1:F:572:ALA:N	2.23	0.53
1:H:416:GLU:CG	1:H:417:ASP:H	2.17	0.53
1:I:295:ASP:OD1	1:I:298:ARG:NH1	2.42	0.53
1:L:295:ASP:OD1	1:L:298:ARG:NH1	2.42	0.53
1:N:577:GLY:HA3	1:O:508:TYR:HA	75.97	0.53
1:N:582:ASN:OD1	1:N:591:ALA:N	2.35	0.53
1:O:693:ARG:NH1	1:P:391:SER:HA	30.14	0.53
1:O:564:GLU:OE1	1:O:729:ARG:HB2	2.09	0.53
1:P:656:ASN:HD22	1:6:323:VAL:HG21	193.08	0.53
1:R:441:TYR:HA	1:R:464:GLN:NE2	2.24	0.53
1:T:441:TYR:HA	1:T:464:GLN:NE2	2.24	0.53
1:U:295:ASP:OD1	1:U:298:ARG:NH1	2.42	0.53
1:V:523:MET:HG3	1:V:524:ALA:CB	2.39	0.53
1:X:523:MET:HG3	1:X:524:ALA:CB	2.39	0.53
1:X:571:VAL:HG12	1:X:572:ALA:N	2.23	0.53
1:Y:523:MET:HG3	1:Y:524:ALA:CB	2.39	0.53
1:1:441:TYR:HA	1:1:464:GLN:NE2	2.24	0.53
1:2:295:ASP:OD1	1:2:298:ARG:NH1	2.42	0.53
1:4:247:TRP:NE1	1:4:677:GLN:O	2.34	0.53
1:5:508:TYR:HA	1:7:577:GLY:HA3	1.91	0.53
1:B:441:TYR:HA	1:B:464:GLN:NE2	2.24	0.53
1:B:484:ARG:HB2	1:C:579:VAL:HG22	92.18	0.53
1:B:571:VAL:HG12	1:B:572:ALA:N	2.23	0.53
1:B:577:GLY:HA3	1:M:508:TYR:HA	110.96	0.53
1:C:326:ASN:O	1:C:329:THR:OG1	2.19	0.53
1:E:577:GLY:HA3	1:Q:508:TYR:HA	1.91	0.53
1:E:581:THR:N	1:E:591:ALA:O	2.37	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:441:TYR:HA	1:F:464:GLN:NE2	2.24	0.53
1:G:313:PHE:HD1	1:G:680:VAL:HG12	1.74	0.53
1:L:571:VAL:HG12	1:L:572:ALA:N	2.23	0.53
1:N:416:GLU:N	1:N:416:GLU:OE1	2.28	0.53
1:N:564:GLU:OE1	1:N:729:ARG:HB2	2.08	0.53
1:P:313:PHE:HD1	1:P:680:VAL:HG12	1.74	0.53
1:Q:441:TYR:HA	1:Q:464:GLN:NE2	2.24	0.53
1:R:523:MET:HG3	1:R:524:ALA:CB	2.39	0.53
1:S:571:VAL:HG12	1:S:572:ALA:N	2.23	0.53
1:S:579:VAL:HG22	1:U:484:ARG:HB2	1.90	0.53
1:U:579:VAL:HG22	1:V:484:ARG:HB2	79.13	0.53
1:V:508:TYR:HA	1:X:577:GLY:HA3	1.91	0.53
1:W:523:MET:HG3	1:W:524:ALA:CB	2.39	0.53
1:X:470:ILE:C	1:X:472:ASP:H	2.09	0.53
1:X:577:GLY:HA3	1:Y:508:TYR:HA	72.23	0.53
1:2:523:MET:HG3	1:2:524:ALA:CB	2.39	0.53
1:3:609:ARG:HG2	1:3:610:ASP:N	2.22	0.53
1:7:441:TYR:HA	1:7:464:GLN:NE2	2.24	0.53
1:6:579:VAL:HG22	1:7:484:ARG:HB2	1.90	0.53
1:B:577:GLY:HA3	1:J:508:TYR:HA	1.91	0.53
1:C:394:CYS:O	1:C:395:LEU:HB2	2.08	0.53
1:D:313:PHE:HD1	1:D:680:VAL:HG12	1.74	0.53
1:D:523:MET:HG3	1:D:524:ALA:CB	2.39	0.53
1:G:413:TYR:OH	1:G:641:HIS:O	2.24	0.53
1:I:577:GLY:HA3	1:J:508:TYR:HA	72.21	0.53
1:J:523:MET:HG3	1:J:524:ALA:CB	2.39	0.53
1:L:579:VAL:HG22	1:T:484:ARG:HB2	228.37	0.53
1:L:313:PHE:HD1	1:L:680:VAL:HG12	1.74	0.53
1:L:564:GLU:OE1	1:L:729:ARG:HB2	2.08	0.53
1:M:693:ARG:NH1	1:N:391:SER:HA	30.14	0.53
1:M:577:GLY:HA3	1:N:508:TYR:HA	72.23	0.53
1:D:508:TYR:HA	1:P:577:GLY:HA3	1.91	0.53
1:R:484:ARG:HB2	1:U:579:VAL:HG22	1.90	0.53
1:S:247:TRP:NE1	1:S:677:GLN:O	2.34	0.53
1:U:564:GLU:OE1	1:U:729:ARG:HB2	2.08	0.53
1:T:484:ARG:HB2	1:V:579:VAL:HG22	129.87	0.53
1:W:577:GLY:HA3	1:Y:508:TYR:HA	1.91	0.53
1:Z:579:VAL:HG22	1:1:484:ARG:HB2	89.62	0.53
1:4:259:GLN:HA	1:4:275:TYR:HD1	1.74	0.53
1:8:658:SER:O	1:8:659:THR:OG1	2.27	0.53
1:A:295:ASP:OD1	1:A:298:ARG:NH1	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:582:ASN:OD1	1:A:591:ALA:N	2.35	0.53
1:B:564:GLU:OE1	1:B:729:ARG:HB2	2.09	0.53
1:D:545:GLN:OE1	1:D:545:GLN:N	2.34	0.53
1:G:295:ASP:OD1	1:G:298:ARG:NH1	2.42	0.53
1:H:441:TYR:HA	1:H:464:GLN:NE2	2.24	0.53
1:F:579:VAL:HG22	1:H:484:ARG:HB2	143.93	0.53
1:I:438:ILE:HG22	1:I:439:ASP:N	2.24	0.53
1:G:579:VAL:HG22	1:I:484:ARG:HB2	1.90	0.53
1:J:438:ILE:HG22	1:J:439:ASP:N	2.24	0.53
1:J:579:VAL:HG22	1:K:484:ARG:HB2	79.13	0.53
1:K:313:PHE:HD1	1:K:680:VAL:HG12	1.74	0.53
1:P:581:THR:N	1:P:591:ALA:O	2.37	0.53
1:R:295:ASP:OD1	1:R:298:ARG:NH1	2.42	0.53
1:S:441:TYR:HA	1:S:464:GLN:NE2	2.24	0.53
1:T:259:GLN:HA	1:T:275:TYR:HD1	1.74	0.53
1:T:579:VAL:HG22	1:U:484:ARG:HB2	92.17	0.53
1:E:391:SER:HA	1:V:693:ARG:NH1	127.51	0.53
1:Y:295:ASP:OD1	1:Y:298:ARG:NH1	2.42	0.53
1:Z:508:TYR:HA	1:2:577:GLY:HA3	92.90	0.53
1:Z:508:TYR:HA	1:3:577:GLY:HA3	1.91	0.53
1:4:441:TYR:HA	1:4:464:GLN:NE2	2.24	0.53
1:8:438:ILE:HG22	1:8:439:ASP:N	2.24	0.53
1:A:259:GLN:HA	1:A:275:TYR:HD1	1.74	0.53
1:A:313:PHE:HD1	1:A:680:VAL:HG12	1.74	0.53
1:A:579:VAL:HG22	1:8:484:ARG:HB2	156.01	0.53
1:B:259:GLN:HA	1:B:275:TYR:HD1	1.74	0.53
1:C:438:ILE:HG22	1:C:439:ASP:N	2.24	0.53
1:F:295:ASP:OD1	1:F:298:ARG:NH1	2.42	0.53
1:F:438:ILE:HG22	1:F:439:ASP:N	2.24	0.53
1:F:523:MET:HG3	1:F:524:ALA:CB	2.39	0.53
1:G:259:GLN:HA	1:G:275:TYR:HD1	1.74	0.53
1:K:441:TYR:HA	1:K:464:GLN:NE2	2.24	0.53
1:B:693:ARG:NH1	1:M:391:SER:HA	127.41	0.53
1:M:508:TYR:HA	1:O:577:GLY:HA3	122.42	0.53
1:P:438:ILE:HG22	1:P:439:ASP:N	2.24	0.53
1:P:658:SER:O	1:P:659:THR:OG1	2.27	0.53
1:R:259:GLN:HA	1:R:275:TYR:HD1	1.74	0.53
1:Q:577:GLY:HA3	1:R:508:TYR:HA	75.97	0.53
1:C:259:GLN:HB3	1:S:715:ASP:O	156.28	0.53
1:W:313:PHE:HD1	1:W:680:VAL:HG12	1.74	0.53
1:X:564:GLU:OE1	1:X:729:ARG:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:441:TYR:HA	1:Z:464:GLN:NE2	2.24	0.53
1:Z:247:TRP:NE1	1:Z:677:GLN:O	2.34	0.53
1:1:609:ARG:HG2	1:1:610:ASP:N	2.22	0.52
1:5:438:ILE:HG22	1:5:439:ASP:N	2.24	0.52
1:6:523:MET:HG3	1:6:524:ALA:CB	2.39	0.52
1:8:313:PHE:HD1	1:8:680:VAL:HG12	1.74	0.52
1:A:508:TYR:HA	1:I:577:GLY:HA3	1.91	0.52
1:C:579:VAL:HG22	1:O:484:ARG:HB2	143.53	0.52
1:D:438:ILE:HG22	1:D:439:ASP:N	2.24	0.52
1:E:438:ILE:HG22	1:E:439:ASP:N	2.24	0.52
1:E:564:GLU:OE1	1:E:729:ARG:HB2	2.09	0.52
1:E:579:VAL:HG22	1:X:484:ARG:HB2	144.09	0.52
1:G:438:ILE:HG22	1:G:439:ASP:N	2.24	0.52
1:H:438:ILE:HG22	1:H:439:ASP:N	2.24	0.52
1:H:523:MET:HG3	1:H:524:ALA:CB	2.39	0.52
1:J:295:ASP:OD1	1:J:298:ARG:NH1	2.42	0.52
1:K:438:ILE:HG22	1:K:439:ASP:N	2.24	0.52
1:L:438:ILE:HG22	1:L:439:ASP:N	2.24	0.52
1:M:259:GLN:HA	1:M:275:TYR:HD1	1.74	0.52
1:M:438:ILE:HG22	1:M:439:ASP:N	2.24	0.52
1:N:259:GLN:HA	1:N:275:TYR:HD1	1.74	0.52
1:N:313:PHE:HD1	1:N:680:VAL:HG12	1.74	0.52
1:O:259:GLN:HA	1:O:275:TYR:HD1	1.74	0.52
1:P:259:GLN:HA	1:P:275:TYR:HD1	1.74	0.52
1:Q:452:SER:OG	1:Q:456:THR:O	2.27	0.52
1:Q:693:ARG:NH1	1:R:391:SER:HA	53.91	0.52
1:S:438:ILE:HG22	1:S:439:ASP:N	2.24	0.52
1:U:438:ILE:HG22	1:U:439:ASP:N	2.24	0.52
1:V:438:ILE:HG22	1:V:439:ASP:N	2.24	0.52
1:V:564:GLU:OE1	1:V:729:ARG:HB2	2.08	0.52
1:H:693:ARG:NH1	1:W:391:SER:HA	2.24	0.52
1:W:438:ILE:HG22	1:W:439:ASP:N	2.24	0.52
1:W:693:ARG:NH1	1:X:391:SER:HA	53.91	0.52
1:W:693:ARG:NH1	1:Y:391:SER:HA	2.25	0.52
1:X:438:ILE:HG22	1:X:439:ASP:N	2.24	0.52
1:X:247:TRP:NE1	1:X:677:GLN:O	2.34	0.52
1:Y:259:GLN:HA	1:Y:275:TYR:HD1	1.74	0.52
1:W:391:SER:HA	1:Y:693:ARG:NH1	57.11	0.52
1:Z:259:GLN:HA	1:Z:275:TYR:HD1	1.74	0.52
1:Z:438:ILE:HG22	1:Z:439:ASP:N	2.24	0.52
1:Z:584:GLN:N	1:Z:584:GLN:OE1	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:581:THR:N	1:2:591:ALA:O	2.37	0.52
1:Z:391:SER:HA	1:2:693:ARG:NH1	78.70	0.52
1:4:438:ILE:HG22	1:4:439:ASP:N	2.24	0.52
1:5:577:GLY:HA3	1:6:508:TYR:HA	1.91	0.52
1:5:313:PHE:HD1	1:5:680:VAL:HG12	1.74	0.52
1:6:584:GLN:OE1	1:6:584:GLN:N	2.43	0.52
1:7:259:GLN:HA	1:7:275:TYR:HD1	1.74	0.52
1:8:259:GLN:HA	1:8:275:TYR:HD1	1.74	0.52
1:8:441:TYR:HA	1:8:464:GLN:NE2	2.24	0.52
1:B:693:ARG:NH1	1:J:391:SER:HA	2.24	0.52
1:D:413:TYR:OH	1:D:641:HIS:O	2.23	0.52
1:F:584:GLN:OE1	1:F:584:GLN:N	2.43	0.52
1:I:313:PHE:HD1	1:I:680:VAL:HG12	1.74	0.52
1:K:247:TRP:NE1	1:K:677:GLN:O	2.34	0.52
1:L:584:GLN:N	1:L:584:GLN:OE1	2.43	0.52
1:M:581:THR:N	1:M:591:ALA:O	2.37	0.52
1:N:579:VAL:HG22	1:P:484:ARG:HB2	1.90	0.52
1:P:523:MET:HG3	1:P:524:ALA:CB	2.39	0.52
1:Q:438:ILE:HG22	1:Q:439:ASP:N	2.24	0.52
1:L:693:ARG:NH1	1:T:391:SER:HA	202.94	0.52
1:U:577:GLY:HA3	1:V:508:TYR:HA	75.97	0.52
1:W:579:VAL:HG22	1:X:484:ARG:HB2	79.13	0.52
1:W:715:ASP:CG	1:W:716:THR:H	2.13	0.52
1:1:470:ILE:C	1:1:472:ASP:H	2.09	0.52
1:2:545:GLN:N	1:2:545:GLN:OE1	2.34	0.52
1:3:508:TYR:HA	1:4:577:GLY:HA3	1.91	0.52
1:5:441:TYR:HA	1:5:464:GLN:NE2	2.24	0.52
1:5:452:SER:OG	1:5:456:THR:O	2.27	0.52
1:5:584:GLN:N	1:5:584:GLN:OE1	2.43	0.52
1:7:295:ASP:OD1	1:7:298:ARG:NH1	2.42	0.52
1:5:391:SER:HA	1:7:693:ARG:NH1	2.25	0.52
1:A:577:GLY:HA3	1:8:508:TYR:HA	157.33	0.52
1:A:523:MET:HG3	1:A:524:ALA:CB	2.39	0.52
1:B:609:ARG:HG2	1:B:610:ASP:N	2.22	0.52
1:C:581:THR:N	1:C:591:ALA:O	2.37	0.52
1:E:259:GLN:HA	1:E:275:TYR:HD1	1.74	0.52
1:E:715:ASP:CG	1:E:716:THR:H	2.13	0.52
1:F:508:TYR:HA	1:G:577:GLY:HA3	95.47	0.52
1:H:508:TYR:HA	1:Y:577:GLY:HA3	1.91	0.52
1:H:313:PHE:HD1	1:H:680:VAL:HG12	1.74	0.52
1:N:438:ILE:HG22	1:N:439:ASP:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:715:ASP:CG	1:N:716:THR:H	2.13	0.52
1:O:579:VAL:HG22	1:P:484:ARG:HB2	92.18	0.52
1:O:313:PHE:HD1	1:O:680:VAL:HG12	1.74	0.52
1:P:247:TRP:NE1	1:P:677:GLN:O	2.34	0.52
1:Q:313:PHE:HD1	1:Q:680:VAL:HG12	1.74	0.52
1:E:693:ARG:NH1	1:Q:391:SER:HA	2.25	0.52
1:Q:584:GLN:N	1:Q:584:GLN:OE1	2.43	0.52
1:S:523:MET:HG3	1:S:524:ALA:CB	2.39	0.52
1:T:508:TYR:HA	1:V:577:GLY:HA3	122.42	0.52
1:T:577:GLY:HA3	1:U:508:TYR:HA	72.21	0.52
1:U:441:TYR:HA	1:U:464:GLN:NE2	2.24	0.52
1:U:571:VAL:HG12	1:U:572:ALA:N	2.23	0.52
1:X:429:SER:OG	1:X:431:ASP:OD1	2.18	0.52
1:X:581:THR:N	1:X:591:ALA:O	2.37	0.52
1:1:295:ASP:OD1	1:1:298:ARG:NH1	2.42	0.52
1:1:577:GLY:HA3	1:2:508:TYR:HA	1.91	0.52
1:3:545:GLN:OE1	1:3:545:GLN:N	2.34	0.52
1:Z:391:SER:HA	1:3:693:ARG:NH1	2.25	0.52
1:4:715:ASP:CG	1:4:716:THR:H	2.13	0.52
1:8:523:MET:HG3	1:8:524:ALA:CB	2.39	0.52
1:B:438:ILE:HG22	1:B:439:ASP:N	2.24	0.52
1:B:313:PHE:HD1	1:B:680:VAL:HG12	1.74	0.52
1:C:564:GLU:OE1	1:C:729:ARG:HB2	2.08	0.52
1:D:441:TYR:HA	1:D:464:GLN:NE2	2.24	0.52
1:E:693:ARG:NH1	1:X:391:SER:HA	166.09	0.52
1:F:429:SER:OG	1:F:431:ASP:OD1	2.18	0.52
1:F:484:ARG:HB2	1:G:579:VAL:HG22	88.17	0.52
1:H:268:ASN:HA	1:H:271:HIS:NE2	2.25	0.52
1:H:259:GLN:HA	1:H:275:TYR:HD1	1.74	0.52
1:H:326:ASN:O	1:H:329:THR:OG1	2.19	0.52
1:J:259:GLN:HA	1:J:275:TYR:HD1	1.74	0.52
1:J:268:ASN:HA	1:J:271:HIS:NE2	2.25	0.52
1:K:584:GLN:N	1:K:584:GLN:OE1	2.43	0.52
1:L:577:GLY:HA3	1:T:508:TYR:HA	228.99	0.52
1:M:715:ASP:CG	1:M:716:THR:H	2.13	0.52
1:N:693:ARG:NH1	1:O:391:SER:HA	53.91	0.52
1:M:391:SER:HA	1:O:693:ARG:NH1	87.95	0.52
1:C:518:ASN:HB2	1:P:474:SER:HA	62.69	0.52
1:N:577:GLY:HA3	1:P:508:TYR:HA	1.91	0.52
1:S:259:GLN:HA	1:S:275:TYR:HD1	1.74	0.52
1:S:658:SER:O	1:S:659:THR:OG1	2.27	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:259:GLN:HA	1:U:275:TYR:HD1	1.74	0.52
1:U:523:MET:HG3	1:U:524:ALA:CB	2.39	0.52
1:U:413:TYR:OH	1:U:641:HIS:O	2.23	0.52
1:Y:584:GLN:N	1:Y:584:GLN:OE1	2.43	0.52
1:Z:581:THR:N	1:Z:591:ALA:O	2.37	0.52
1:Z:715:ASP:CG	1:Z:716:THR:H	2.13	0.52
1:2:259:GLN:HA	1:2:275:TYR:HD1	1.74	0.52
1:1:579:VAL:HG22	1:2:484:ARG:HB2	1.91	0.52
1:6:295:ASP:OD1	1:6:298:ARG:NH1	2.42	0.52
1:7:564:GLU:OE1	1:7:729:ARG:HB2	2.08	0.52
1:7:715:ASP:CG	1:7:716:THR:H	2.13	0.52
1:H:584:GLN:OE1	1:H:584:GLN:N	2.43	0.52
1:H:247:TRP:NE1	1:H:677:GLN:O	2.34	0.52
1:I:579:VAL:HG22	1:J:484:ARG:HB2	92.17	0.52
1:K:523:MET:HG3	1:K:524:ALA:CB	2.39	0.52
1:L:268:ASN:HA	1:L:271:HIS:NE2	2.25	0.52
1:L:441:TYR:HA	1:L:464:GLN:NE2	2.24	0.52
1:D:577:GLY:HA3	1:L:508:TYR:HA	144.28	0.52
1:L:715:ASP:CG	1:L:716:THR:H	2.13	0.52
1:M:268:ASN:HA	1:M:271:HIS:NE2	2.25	0.52
1:C:577:GLY:HA3	1:O:508:TYR:HA	155.75	0.52
1:O:715:ASP:CG	1:O:716:THR:H	2.13	0.52
1:Q:429:SER:OG	1:Q:431:ASP:OD1	2.18	0.52
1:R:577:GLY:HA3	1:S:508:TYR:HA	1.91	0.52
1:R:582:ASN:OD1	1:R:591:ALA:N	2.35	0.52
1:R:584:GLN:N	1:R:584:GLN:OE1	2.43	0.52
1:S:268:ASN:HA	1:S:271:HIS:NE2	2.25	0.52
1:U:715:ASP:CG	1:U:716:THR:H	2.13	0.52
1:V:268:ASN:HA	1:V:271:HIS:NE2	2.25	0.52
1:V:715:ASP:CG	1:V:716:THR:H	2.13	0.52
1:Z:268:ASN:HA	1:Z:271:HIS:NE2	2.25	0.52
1:Z:313:PHE:HD1	1:Z:680:VAL:HG12	1.74	0.52
1:Z:693:ARG:NH1	1:4:391:SER:HA	2.25	0.52
1:2:441:TYR:HA	1:2:464:GLN:NE2	2.24	0.52
1:3:247:TRP:NE1	1:3:677:GLN:O	2.34	0.52
1:4:582:ASN:OD1	1:4:591:ALA:N	2.35	0.52
1:5:429:SER:OG	1:5:431:ASP:OD1	2.18	0.52
1:7:703:ASN:OD1	1:7:704:TYR:N	2.43	0.52
1:8:268:ASN:HA	1:8:271:HIS:NE2	2.25	0.52
1:A:693:ARG:NH1	1:8:391:SER:HA	156.28	0.52
1:A:703:ASN:OD1	1:A:704:TYR:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:715:ASP:CG	1:A:716:THR:H	2.13	0.52
1:B:715:ASP:O	1:O:259:GLN:HB3	175.59	0.52
1:H:703:ASN:OD1	1:H:704:TYR:N	2.43	0.52
1:K:259:GLN:HA	1:K:275:TYR:HD1	1.74	0.52
1:A:508:TYR:HA	1:K:577:GLY:HA3	130.86	0.52
1:K:703:ASN:OD1	1:K:704:TYR:N	2.43	0.52
1:N:703:ASN:OD1	1:N:704:TYR:N	2.43	0.52
1:P:268:ASN:HA	1:P:271:HIS:NE2	2.25	0.52
1:Q:703:ASN:OD1	1:Q:704:TYR:N	2.43	0.52
1:S:452:SER:OG	1:S:456:THR:O	2.27	0.52
1:T:295:ASP:OD1	1:T:298:ARG:NH1	2.42	0.52
1:U:268:ASN:HA	1:U:271:HIS:NE2	2.25	0.52
1:U:452:SER:OG	1:U:456:THR:O	2.27	0.52
1:W:268:ASN:HA	1:W:271:HIS:NE2	2.25	0.52
1:Y:438:ILE:HG22	1:Y:439:ASP:N	2.24	0.52
1:Z:416:GLU:OE1	1:Z:416:GLU:N	2.28	0.52
1:3:268:ASN:HA	1:3:271:HIS:NE2	2.25	0.52
1:3:564:GLU:OE1	1:3:729:ARG:HB2	2.08	0.52
1:4:452:SER:OG	1:4:456:THR:O	2.27	0.52
1:4:564:GLU:OE1	1:4:729:ARG:HB2	2.09	0.52
1:5:416:GLU:CG	1:5:417:ASP:H	2.17	0.52
1:5:703:ASN:OD1	1:5:704:TYR:N	2.43	0.52
1:6:438:ILE:HG22	1:6:439:ASP:N	2.24	0.52
1:5:579:VAL:HG22	1:6:484:ARG:HB2	1.90	0.52
1:7:438:ILE:HG22	1:7:439:ASP:N	2.24	0.52
1:7:523:MET:HG3	1:7:524:ALA:CB	2.39	0.52
1:8:247:TRP:NE1	1:8:677:GLN:O	2.34	0.52
1:D:259:GLN:HA	1:D:275:TYR:HD1	1.74	0.52
1:D:326:ASN:O	1:D:329:THR:OG1	2.19	0.52
1:E:579:VAL:HG22	1:Q:484:ARG:HB2	1.90	0.52
1:E:703:ASN:OD1	1:E:704:TYR:N	2.43	0.52
1:F:452:SER:OG	1:F:456:THR:O	2.27	0.52
1:F:703:ASN:OD1	1:F:704:TYR:N	2.43	0.52
1:G:268:ASN:HA	1:G:271:HIS:NE2	2.25	0.52
1:I:268:ASN:HA	1:I:271:HIS:NE2	2.25	0.52
1:J:703:ASN:OD1	1:J:704:TYR:N	2.43	0.52
1:K:268:ASN:HA	1:K:271:HIS:NE2	2.25	0.52
1:L:259:GLN:HA	1:L:275:TYR:HD1	1.74	0.52
1:M:313:PHE:HD1	1:M:680:VAL:HG12	1.74	0.52
1:D:577:GLY:HA3	1:N:508:TYR:HA	1.91	0.52
1:O:268:ASN:HA	1:O:271:HIS:NE2	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:693:ARG:NH1	1:O:391:SER:HA	164.74	0.52
1:O:703:ASN:OD1	1:O:704:TYR:N	2.43	0.52
1:Q:268:ASN:HA	1:Q:271:HIS:NE2	2.25	0.52
1:F:508:TYR:HA	1:Q:577:GLY:HA3	1.91	0.52
1:R:703:ASN:OD1	1:R:704:TYR:N	2.43	0.52
1:S:577:GLY:HA3	1:U:508:TYR:HA	1.91	0.52
1:R:508:TYR:HA	1:U:577:GLY:HA3	1.91	0.52
1:V:441:TYR:HA	1:V:464:GLN:NE2	2.24	0.52
1:W:508:TYR:HA	1:Y:577:GLY:HA3	22.69	0.52
1:X:259:GLN:HA	1:X:275:TYR:HD1	1.74	0.52
1:Y:703:ASN:OD1	1:Y:704:TYR:N	2.43	0.52
1:Z:693:ARG:NH1	1:1:391:SER:HA	103.98	0.52
1:2:582:ASN:OD1	1:2:591:ALA:N	2.35	0.52
1:2:584:GLN:N	1:2:584:GLN:OE1	2.43	0.52
1:3:703:ASN:OD1	1:3:704:TYR:N	2.43	0.52
1:3:715:ASP:CG	1:3:716:THR:H	2.13	0.52
1:3:391:SER:HA	1:4:693:ARG:NH1	2.25	0.52
1:5:259:GLN:HA	1:5:275:TYR:HD1	1.74	0.52
1:6:268:ASN:HA	1:6:271:HIS:NE2	2.25	0.52
1:6:703:ASN:OD1	1:6:704:TYR:N	2.43	0.52
1:6:715:ASP:OD1	1:6:716:THR:N	2.38	0.52
1:8:584:GLN:N	1:8:584:GLN:OE1	2.43	0.52
1:K:391:SER:HA	1:8:693:ARG:NH1	2.24	0.52
1:8:703:ASN:OD1	1:8:704:TYR:N	2.43	0.52
1:A:259:GLN:HB3	1:B:715:ASP:O	2.10	0.52
1:C:268:ASN:HA	1:C:271:HIS:NE2	2.25	0.52
1:C:441:TYR:HA	1:C:464:GLN:NE2	2.24	0.52
1:D:268:ASN:HA	1:D:271:HIS:NE2	2.25	0.52
1:D:703:ASN:OD1	1:D:704:TYR:N	2.43	0.52
1:E:484:ARG:HB2	1:F:579:VAL:HG22	1.90	0.52
1:E:508:TYR:HA	1:F:577:GLY:HA3	1.91	0.52
1:F:715:ASP:OD1	1:F:716:THR:N	2.38	0.52
1:J:452:SER:OG	1:J:456:THR:O	2.27	0.52
1:J:577:GLY:HA3	1:L:508:TYR:HA	1.91	0.52
1:D:579:VAL:HG22	1:L:484:ARG:HB2	143.93	0.52
1:M:257:TYR:OH	1:M:396:GLU:OE1	2.28	0.52
1:O:523:MET:HG3	1:O:524:ALA:CB	2.39	0.52
1:P:703:ASN:OD1	1:P:704:TYR:N	2.43	0.52
1:Q:259:GLN:HA	1:Q:275:TYR:HD1	1.74	0.52
1:Q:582:ASN:OD1	1:Q:591:ALA:N	2.35	0.52
1:R:438:ILE:HG22	1:R:439:ASP:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:693:ARG:NH1	1:U:391:SER:HA	30.14	0.52
1:V:584:GLN:OE1	1:V:584:GLN:N	2.43	0.52
1:W:259:GLN:HA	1:W:275:TYR:HD1	1.74	0.52
1:W:584:GLN:OE1	1:W:584:GLN:N	2.43	0.52
1:Y:441:TYR:HA	1:Y:464:GLN:NE2	2.24	0.52
1:Y:582:ASN:OD1	1:Y:591:ALA:N	2.35	0.52
1:Y:658:SER:O	1:Y:659:THR:OG1	2.27	0.52
1:G:715:ASP:O	1:1:259:GLN:HB3	179.76	0.52
1:1:438:ILE:HG22	1:1:439:ASP:N	2.24	0.52
1:1:703:ASN:OD1	1:1:704:TYR:N	2.43	0.52
1:1:715:ASP:OD1	1:1:716:THR:N	2.38	0.52
1:1:715:ASP:CG	1:1:716:THR:H	2.13	0.52
1:2:313:PHE:HD1	1:2:680:VAL:HG12	1.74	0.52
1:1:693:ARG:NH1	1:2:391:SER:HA	2.25	0.52
1:2:703:ASN:OD1	1:2:704:TYR:N	2.43	0.52
1:5:443:TYR:HA	1:5:464:GLN:HA	1.92	0.52
1:A:257:TYR:OH	1:A:396:GLU:OE1	2.28	0.52
1:B:268:ASN:HA	1:B:271:HIS:NE2	2.25	0.52
1:B:391:SER:HA	1:L:693:ARG:NH1	2.25	0.52
1:C:703:ASN:OD1	1:C:704:TYR:N	2.43	0.52
1:C:700:TYR:HB2	1:C:730:TYR:CZ	2.45	0.52
1:D:452:SER:OG	1:D:456:THR:O	2.27	0.52
1:E:523:MET:HG3	1:E:524:ALA:CB	2.39	0.52
1:F:268:ASN:HA	1:F:271:HIS:NE2	2.25	0.52
1:H:452:SER:OG	1:H:456:THR:O	2.27	0.52
1:I:443:TYR:HA	1:I:464:GLN:HA	1.92	0.52
1:I:715:ASP:O	1:T:259:GLN:HB3	221.57	0.52
1:J:257:TYR:OH	1:J:396:GLU:OE1	2.28	0.52
1:I:391:SER:HA	1:K:693:ARG:NH1	87.97	0.52
1:L:581:THR:N	1:L:591:ALA:O	2.37	0.52
1:L:700:TYR:HB2	1:L:730:TYR:CZ	2.45	0.52
1:M:703:ASN:OD1	1:M:704:TYR:N	2.43	0.52
1:N:257:TYR:OH	1:N:396:GLU:OE1	2.28	0.52
1:N:693:ARG:NH1	1:P:391:SER:HA	2.25	0.52
1:P:584:GLN:N	1:P:584:GLN:OE1	2.43	0.52
1:D:391:SER:HA	1:P:693:ARG:NH1	2.24	0.52
1:R:268:ASN:HA	1:R:271:HIS:NE2	2.25	0.52
1:R:693:ARG:NH1	1:S:391:SER:HA	2.25	0.52
1:S:584:GLN:OE1	1:S:584:GLN:N	2.43	0.52
1:T:438:ILE:HG22	1:T:439:ASP:N	2.24	0.52
1:T:703:ASN:OD1	1:T:704:TYR:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:610:ASP:OD1	1:W:611:VAL:N	2.43	0.52
1:X:715:ASP:OD1	1:X:716:THR:N	2.38	0.52
1:Y:268:ASN:HA	1:Y:271:HIS:NE2	2.25	0.52
1:1:259:GLN:HA	1:1:275:TYR:HD1	1.74	0.52
1:2:452:SER:OG	1:2:456:THR:O	2.27	0.52
1:3:313:PHE:HD1	1:3:680:VAL:HG12	1.74	0.52
1:3:523:MET:HG3	1:3:524:ALA:CB	2.39	0.52
1:4:257:TYR:OH	1:4:396:GLU:OE1	2.28	0.52
1:4:313:PHE:HD1	1:4:680:VAL:HG12	1.74	0.52
1:4:703:ASN:OD1	1:4:704:TYR:N	2.43	0.52
1:5:268:ASN:HA	1:5:271:HIS:NE2	2.25	0.52
1:5:394:CYS:O	1:5:395:LEU:HB2	2.08	0.52
1:6:259:GLN:HA	1:6:275:TYR:HD1	1.74	0.52
1:7:584:GLN:OE1	1:7:584:GLN:N	2.43	0.52
1:8:257:TYR:OH	1:8:396:GLU:OE1	2.28	0.52
1:8:715:ASP:CG	1:8:716:THR:H	2.13	0.52
1:A:268:ASN:HA	1:A:271:HIS:NE2	2.25	0.52
1:A:443:TYR:HA	1:A:464:GLN:HA	1.92	0.52
1:B:703:ASN:OD1	1:B:704:TYR:N	2.43	0.52
1:D:257:TYR:OH	1:D:396:GLU:OE1	2.28	0.52
1:D:693:ARG:NH1	1:N:391:SER:HA	2.25	0.52
1:E:508:TYR:HA	1:V:577:GLY:HA3	148.60	0.52
1:E:610:ASP:OD1	1:E:611:VAL:N	2.43	0.52
1:F:547:SER:HG	1:Q:443:TYR:HH	1.54	0.52
1:G:391:SER:HA	1:H:693:ARG:NH1	53.90	0.52
1:G:703:ASN:OD1	1:G:704:TYR:N	2.43	0.52
1:G:508:TYR:HA	1:H:577:GLY:HA3	75.97	0.52
1:H:715:ASP:O	1:I:259:GLN:HB3	2.10	0.52
1:I:693:ARG:NH1	1:J:391:SER:HA	30.12	0.52
1:I:703:ASN:OD1	1:I:704:TYR:N	2.43	0.52
1:I:700:TYR:HB2	1:I:730:TYR:CZ	2.45	0.52
1:J:658:SER:O	1:J:659:THR:OG1	2.27	0.52
1:K:257:TYR:OH	1:K:396:GLU:OE1	2.28	0.52
1:A:391:SER:HA	1:K:693:ARG:NH1	83.69	0.52
1:K:700:TYR:HB2	1:K:730:TYR:CZ	2.45	0.52
1:L:610:ASP:OD1	1:L:611:VAL:N	2.43	0.52
1:M:658:SER:O	1:M:659:THR:OG1	2.27	0.52
1:N:443:TYR:HA	1:N:464:GLN:HA	1.92	0.52
1:O:257:TYR:OH	1:O:396:GLU:OE1	2.28	0.52
1:Q:443:TYR:HA	1:Q:464:GLN:HA	1.92	0.52
1:R:257:TYR:OH	1:R:396:GLU:OE1	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:700:TYR:HB2	1:R:730:TYR:CZ	2.45	0.52
1:T:257:TYR:OH	1:T:396:GLU:OE1	2.28	0.52
1:T:700:TYR:HB2	1:T:730:TYR:CZ	2.45	0.52
1:T:391:SER:HA	1:V:693:ARG:NH1	87.96	0.52
1:X:545:GLN:N	1:X:545:GLN:OE1	2.34	0.52
1:X:715:ASP:CG	1:X:716:THR:H	2.13	0.52
1:X:693:ARG:NH1	1:Y:391:SER:HA	30.14	0.52
1:H:391:SER:HA	1:Y:693:ARG:NH1	2.25	0.52
1:Y:715:ASP:CG	1:Y:716:THR:H	2.13	0.52
1:Z:577:GLY:HA3	1:4:508:TYR:HA	1.91	0.52
1:1:584:GLN:OE1	1:1:584:GLN:N	2.43	0.51
1:3:470:ILE:C	1:3:472:ASP:H	2.09	0.51
1:7:257:TYR:OH	1:7:396:GLU:OE1	2.28	0.51
1:5:484:ARG:HB2	1:7:579:VAL:HG22	1.90	0.51
1:7:700:TYR:HB2	1:7:730:TYR:CZ	2.45	0.51
1:B:715:ASP:CG	1:B:716:THR:H	2.13	0.51
1:C:391:SER:HA	1:M:693:ARG:NH1	2.25	0.51
1:C:443:TYR:HA	1:C:464:GLN:HA	1.92	0.51
1:C:508:TYR:HA	1:M:577:GLY:HA3	1.91	0.51
1:B:391:SER:HA	1:C:693:ARG:NH1	30.14	0.51
1:D:700:TYR:HB2	1:D:730:TYR:CZ	2.45	0.51
1:E:268:ASN:HA	1:E:271:HIS:NE2	2.25	0.51
1:E:257:TYR:OH	1:E:396:GLU:OE1	2.28	0.51
1:E:700:TYR:HB2	1:E:730:TYR:CZ	2.45	0.51
1:F:443:TYR:HA	1:F:464:GLN:HA	1.92	0.51
1:G:584:GLN:N	1:G:584:GLN:OE1	2.43	0.51
1:F:391:SER:HA	1:G:693:ARG:NH1	100.48	0.51
1:I:257:TYR:OH	1:I:396:GLU:OE1	2.28	0.51
1:I:452:SER:OG	1:I:456:THR:O	2.27	0.51
1:I:508:TYR:HA	1:K:577:GLY:HA3	122.43	0.51
1:A:391:SER:HA	1:I:693:ARG:NH1	2.25	0.51
1:J:584:GLN:N	1:J:584:GLN:OE1	2.43	0.51
1:J:693:ARG:NH1	1:L:391:SER:HA	2.25	0.51
1:J:700:TYR:HB2	1:J:730:TYR:CZ	2.45	0.51
1:K:429:SER:OG	1:K:431:ASP:OD1	2.18	0.51
1:K:715:ASP:CG	1:K:716:THR:H	2.13	0.51
1:P:257:TYR:OH	1:P:396:GLU:OE1	2.28	0.51
1:R:715:ASP:CG	1:R:716:THR:H	2.13	0.51
1:T:584:GLN:OE1	1:T:584:GLN:N	2.43	0.51
1:T:581:THR:N	1:T:591:ALA:O	2.37	0.51
1:T:715:ASP:CG	1:T:716:THR:H	2.13	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:259:GLN:HA	1:V:275:TYR:HD1	1.74	0.51
1:U:693:ARG:NH1	1:V:391:SER:HA	53.91	0.51
1:V:703:ASN:OD1	1:V:704:TYR:N	2.43	0.51
1:G:715:ASP:O	1:W:259:GLN:HB3	2.11	0.51
1:Y:443:TYR:HA	1:Y:464:GLN:HA	1.92	0.51
1:Z:257:TYR:OH	1:Z:396:GLU:OE1	2.28	0.51
1:Z:610:ASP:OD1	1:Z:611:VAL:N	2.43	0.51
1:Z:658:SER:O	1:Z:659:THR:OG1	2.27	0.51
1:Z:577:GLY:HA3	1:1:508:TYR:HA	97.56	0.51
1:2:443:TYR:HA	1:2:464:GLN:HA	1.92	0.51
1:2:610:ASP:OD1	1:2:611:VAL:N	2.43	0.51
1:2:715:ASP:O	1:3:259:GLN:HB3	2.10	0.51
1:2:700:TYR:HB2	1:2:730:TYR:CZ	2.45	0.51
1:3:259:GLN:HA	1:3:275:TYR:HD1	1.74	0.51
1:4:257:TYR:OH	1:4:394:CYS:O	2.21	0.51
1:5:582:ASN:OD1	1:5:591:ALA:N	2.35	0.51
1:6:443:TYR:HA	1:6:464:GLN:HA	1.93	0.51
1:7:443:TYR:HA	1:7:464:GLN:HA	1.92	0.51
1:8:700:TYR:HB2	1:8:730:TYR:CZ	2.45	0.51
1:B:523:MET:HG3	1:B:524:ALA:CB	2.39	0.51
1:C:257:TYR:OH	1:C:396:GLU:OE1	2.28	0.51
1:C:452:SER:OG	1:C:456:THR:O	2.27	0.51
1:D:610:ASP:OD1	1:D:611:VAL:N	2.43	0.51
1:E:443:TYR:HA	1:E:464:GLN:HA	1.92	0.51
1:E:584:GLN:N	1:E:584:GLN:OE1	2.43	0.51
1:F:561:ASP:OD1	1:F:562:GLU:N	2.44	0.51
1:F:700:TYR:HB2	1:F:730:TYR:CZ	2.45	0.51
1:A:693:ARG:NH1	1:G:391:SER:HA	2.25	0.51
1:G:715:ASP:CG	1:G:716:THR:H	2.13	0.51
1:H:715:ASP:CG	1:H:716:THR:H	2.13	0.51
1:I:584:GLN:N	1:I:584:GLN:OE1	2.43	0.51
1:J:443:TYR:HA	1:J:464:GLN:HA	1.92	0.51
1:J:561:ASP:OD1	1:J:562:GLU:N	2.44	0.51
1:L:257:TYR:OH	1:L:396:GLU:OE1	2.28	0.51
1:L:703:ASN:OD1	1:L:704:TYR:N	2.43	0.51
1:M:584:GLN:OE1	1:M:584:GLN:N	2.43	0.51
1:N:561:ASP:OD1	1:N:562:GLU:N	2.44	0.51
1:P:443:TYR:HA	1:P:464:GLN:HA	1.92	0.51
1:P:715:ASP:CG	1:P:716:THR:H	2.13	0.51
1:P:700:TYR:HB2	1:P:730:TYR:CZ	2.45	0.51
1:Q:247:TRP:NE1	1:Q:677:GLN:O	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:693:ARG:NH1	1:U:391:SER:HA	2.24	0.51
1:W:703:ASN:OD1	1:W:704:TYR:N	2.43	0.51
1:X:257:TYR:OH	1:X:396:GLU:OE1	2.28	0.51
1:V:391:SER:HA	1:X:693:ARG:NH1	2.25	0.51
1:Z:703:ASN:OD1	1:Z:704:TYR:N	2.43	0.51
1:4:416:GLU:OE1	1:4:416:GLU:N	2.28	0.51
1:4:561:ASP:OD1	1:4:562:GLU:N	2.44	0.51
1:4:571:VAL:HG12	1:4:572:ALA:N	2.23	0.51
1:6:577:GLY:HA3	1:7:508:TYR:HA	1.91	0.51
1:8:443:TYR:HA	1:8:464:GLN:HA	1.92	0.51
1:A:452:SER:OG	1:A:456:THR:O	2.27	0.51
1:A:715:ASP:O	1:E:259:GLN:HB3	2.11	0.51
1:A:700:TYR:HB2	1:A:730:TYR:CZ	2.45	0.51
1:B:443:TYR:HA	1:B:464:GLN:HA	1.92	0.51
1:C:584:GLN:OE1	1:C:584:GLN:N	2.43	0.51
1:D:443:TYR:HA	1:D:464:GLN:HA	1.92	0.51
1:D:508:TYR:HA	1:T:577:GLY:HA3	140.65	0.51
1:F:658:SER:O	1:F:659:THR:OG1	2.27	0.51
1:F:693:ARG:NH1	1:H:391:SER:HA	125.12	0.51
1:A:484:ARG:HB2	1:I:579:VAL:HG22	1.92	0.51
1:I:610:ASP:OD1	1:I:611:VAL:N	2.43	0.51
1:M:700:TYR:HB2	1:M:730:TYR:CZ	2.45	0.51
1:N:452:SER:OG	1:N:456:THR:O	2.27	0.51
1:O:715:ASP:O	1:P:259:GLN:HB3	2.11	0.51
1:Q:257:TYR:OH	1:Q:396:GLU:OE1	2.28	0.51
1:F:484:ARG:HB2	1:Q:579:VAL:HG22	1.90	0.51
1:Q:610:ASP:OD1	1:Q:611:VAL:N	2.43	0.51
1:T:268:ASN:HA	1:T:271:HIS:NE2	2.25	0.51
1:L:443:TYR:HH	1:T:547:SER:HG	209.35	0.51
1:U:584:GLN:OE1	1:U:584:GLN:N	2.43	0.51
1:V:443:TYR:HA	1:V:464:GLN:HA	1.93	0.51
1:W:257:TYR:OH	1:W:396:GLU:OE1	2.28	0.51
1:W:577:GLY:HA3	1:X:508:TYR:HA	75.97	0.51
1:Q:715:ASP:O	1:Y:259:GLN:HB3	154.31	0.51
1:1:581:THR:N	1:1:591:ALA:O	2.37	0.51
1:2:268:ASN:HA	1:2:271:HIS:NE2	2.25	0.51
1:2:438:ILE:HG22	1:2:439:ASP:N	2.24	0.51
1:4:700:TYR:HB2	1:4:730:TYR:CZ	2.45	0.51
1:5:257:TYR:OH	1:5:396:GLU:OE1	2.28	0.51
1:6:700:TYR:HB2	1:6:730:TYR:CZ	2.45	0.51
1:O:715:ASP:O	1:7:259:GLN:HB3	185.86	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:715:ASP:OD1	1:8:716:THR:N	2.38	0.51
1:C:259:GLN:HA	1:C:275:TYR:HD1	1.74	0.51
1:C:610:ASP:OD1	1:C:611:VAL:N	2.43	0.51
1:E:561:ASP:OD1	1:E:562:GLU:N	2.44	0.51
1:F:259:GLN:HA	1:F:275:TYR:HD1	1.74	0.51
1:F:257:TYR:OH	1:F:396:GLU:OE1	2.28	0.51
1:G:443:TYR:HA	1:G:464:GLN:HA	1.92	0.51
1:J:693:ARG:NH1	1:K:391:SER:HA	53.91	0.51
1:K:561:ASP:OD1	1:K:562:GLU:N	2.44	0.51
1:M:610:ASP:OD1	1:M:611:VAL:N	2.43	0.51
1:O:700:TYR:HB2	1:O:730:TYR:CZ	2.45	0.51
1:P:561:ASP:OD1	1:P:562:GLU:N	2.44	0.51
1:S:443:TYR:HA	1:S:464:GLN:HA	1.92	0.51
1:S:610:ASP:OD1	1:S:611:VAL:N	2.43	0.51
1:S:715:ASP:CG	1:S:716:THR:H	2.13	0.51
1:S:700:TYR:HB2	1:S:730:TYR:CZ	2.45	0.51
1:T:715:ASP:O	1:U:259:GLN:HB3	2.10	0.51
1:W:700:TYR:HB2	1:W:730:TYR:CZ	2.45	0.51
1:X:441:TYR:HA	1:X:464:GLN:NE2	2.24	0.51
1:X:443:TYR:HA	1:X:464:GLN:HA	1.92	0.51
1:Z:700:TYR:HB2	1:Z:730:TYR:CZ	2.45	0.51
1:1:700:TYR:HB2	1:1:730:TYR:CZ	2.45	0.51
1:Z:547:SER:OG	1:2:443:TYR:OH	111.79	0.51
1:3:438:ILE:HG22	1:3:439:ASP:N	2.24	0.51
1:4:584:GLN:N	1:4:584:GLN:OE1	2.43	0.51
1:6:693:ARG:NH1	1:7:391:SER:HA	2.24	0.51
1:A:561:ASP:OD1	1:A:562:GLU:N	2.44	0.51
1:A:610:ASP:OD1	1:A:611:VAL:N	2.43	0.51
1:B:259:GLN:HB3	1:L:715:ASP:O	48.79	0.51
1:B:584:GLN:N	1:B:584:GLN:OE1	2.43	0.51
1:B:304:TRP:CE2	1:B:689:GLU:HG2	2.46	0.51
1:D:715:ASP:O	1:O:259:GLN:HB3	135.94	0.51
1:E:577:GLY:HA3	1:X:508:TYR:HA	156.54	0.51
1:E:391:SER:HA	1:F:693:ARG:NH1	2.24	0.51
1:F:715:ASP:CG	1:F:716:THR:H	2.13	0.51
1:G:700:TYR:HB2	1:G:730:TYR:CZ	2.45	0.51
1:H:257:TYR:OH	1:H:396:GLU:OE1	2.28	0.51
1:H:449:ASN:O	1:H:450:THR:OG1	2.20	0.51
1:H:561:ASP:OD1	1:H:562:GLU:N	2.44	0.51
1:H:700:TYR:HB2	1:H:730:TYR:CZ	2.45	0.51
1:I:304:TRP:CE2	1:I:689:GLU:HG2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:259:GLN:HB3	1:K:715:ASP:O	153.92	0.51
1:L:443:TYR:HA	1:L:464:GLN:HA	1.93	0.51
1:N:584:GLN:N	1:N:584:GLN:OE1	2.43	0.51
1:N:581:THR:N	1:N:591:ALA:O	2.37	0.51
1:L:259:GLN:HB3	1:N:715:ASP:O	171.77	0.51
1:N:700:TYR:HB2	1:N:730:TYR:CZ	2.45	0.51
1:O:438:ILE:HG22	1:O:439:ASP:N	2.24	0.51
1:O:452:SER:OG	1:O:456:THR:O	2.27	0.51
1:O:561:ASP:OD1	1:O:562:GLU:N	2.44	0.51
1:O:584:GLN:OE1	1:O:584:GLN:N	2.43	0.51
1:P:304:TRP:CE2	1:P:689:GLU:HG2	2.46	0.51
1:R:391:SER:HA	1:U:693:ARG:NH1	2.25	0.51
1:T:443:TYR:HA	1:T:464:GLN:HA	1.93	0.51
1:D:391:SER:HA	1:T:693:ARG:NH1	114.56	0.51
1:U:443:TYR:HA	1:U:464:GLN:HA	1.92	0.51
1:U:304:TRP:CE2	1:U:689:GLU:HG2	2.46	0.51
1:W:561:ASP:OD1	1:W:562:GLU:N	2.44	0.51
1:X:268:ASN:HA	1:X:271:HIS:NE2	2.25	0.51
1:X:610:ASP:OD1	1:X:611:VAL:N	2.43	0.51
1:2:304:TRP:CE2	1:2:689:GLU:HG2	2.46	0.51
1:5:693:ARG:NH1	1:6:391:SER:HA	2.25	0.51
1:6:561:ASP:OD1	1:6:562:GLU:N	2.44	0.51
1:6:304:TRP:CE2	1:6:689:GLU:HG2	2.46	0.51
1:6:715:ASP:CG	1:6:716:THR:H	2.13	0.51
1:7:610:ASP:OD1	1:7:611:VAL:N	2.43	0.51
1:8:561:ASP:OD1	1:8:562:GLU:N	2.44	0.51
1:8:304:TRP:CE2	1:8:689:GLU:HG2	2.46	0.51
1:A:438:ILE:HG22	1:A:439:ASP:N	2.24	0.51
1:A:577:GLY:HA3	1:G:508:TYR:HA	1.91	0.51
1:C:561:ASP:OD1	1:C:562:GLU:N	2.44	0.51
1:C:304:TRP:CE2	1:C:689:GLU:HG2	2.46	0.51
1:B:259:GLN:HB3	1:C:715:ASP:O	2.11	0.51
1:D:304:TRP:CE2	1:D:689:GLU:HG2	2.46	0.51
1:D:715:ASP:CG	1:D:716:THR:H	2.13	0.51
1:F:304:TRP:CE2	1:F:689:GLU:HG2	2.46	0.51
1:G:304:TRP:CE2	1:G:689:GLU:HG2	2.46	0.51
1:H:610:ASP:OD1	1:H:611:VAL:N	2.43	0.51
1:I:259:GLN:HA	1:I:275:TYR:HD1	1.74	0.51
1:I:561:ASP:OD1	1:I:562:GLU:N	2.44	0.51
1:K:443:TYR:HA	1:K:464:GLN:HA	1.92	0.51
1:K:304:TRP:CE2	1:K:689:GLU:HG2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:701:THR:OG1	1:K:698:ILE:O	106.37	0.51
1:L:561:ASP:OD1	1:L:562:GLU:N	2.44	0.51
1:N:268:ASN:HA	1:N:271:HIS:NE2	2.25	0.51
1:N:658:SER:O	1:N:659:THR:OG1	2.27	0.51
1:O:610:ASP:OD1	1:O:611:VAL:N	2.43	0.51
1:C:557:VAL:HG11	1:P:462:PHE:CD2	62.82	0.51
1:Q:700:TYR:HB2	1:Q:730:TYR:CZ	2.45	0.51
1:R:304:TRP:CE2	1:R:689:GLU:HG2	2.46	0.51
1:R:443:TYR:HA	1:R:464:GLN:HA	1.92	0.51
1:S:257:TYR:OH	1:S:396:GLU:OE1	2.28	0.51
1:T:304:TRP:CE2	1:T:689:GLU:HG2	2.46	0.51
1:U:561:ASP:OD1	1:U:562:GLU:N	2.44	0.51
1:U:700:TYR:HB2	1:U:730:TYR:CZ	2.45	0.51
1:V:304:TRP:CE2	1:V:689:GLU:HG2	2.46	0.51
1:Y:700:TYR:HB2	1:Y:730:TYR:CZ	2.45	0.51
1:Z:443:TYR:HA	1:Z:464:GLN:HA	1.92	0.51
1:2:257:TYR:OH	1:2:396:GLU:OE1	2.28	0.51
1:3:715:ASP:O	1:8:259:GLN:HB3	2.11	0.51
1:8:610:ASP:OD1	1:8:611:VAL:N	2.43	0.51
1:A:584:GLN:N	1:A:584:GLN:OE1	2.43	0.51
1:B:581:THR:N	1:B:591:ALA:O	2.37	0.51
1:F:577:GLY:HA3	1:H:508:TYR:HA	144.28	0.51
1:F:715:ASP:O	1:G:259:GLN:HB3	2.10	0.51
1:G:582:ASN:OD1	1:G:591:ALA:N	2.35	0.51
1:H:443:TYR:HA	1:H:464:GLN:HA	1.92	0.51
1:H:304:TRP:CE2	1:H:689:GLU:HG2	2.46	0.51
1:G:577:GLY:HA3	1:I:508:TYR:HA	1.91	0.51
1:L:304:TRP:CE2	1:L:689:GLU:HG2	2.46	0.51
1:B:508:TYR:HA	1:L:577:GLY:HA3	1.91	0.51
1:N:545:GLN:N	1:N:545:GLN:OE1	2.34	0.51
1:P:610:ASP:OD1	1:P:611:VAL:N	2.43	0.51
1:P:715:ASP:OD1	1:P:716:THR:N	2.39	0.51
1:F:391:SER:HA	1:Q:693:ARG:NH1	2.25	0.51
1:S:561:ASP:OD1	1:S:562:GLU:N	2.44	0.51
1:S:413:TYR:OH	1:S:641:HIS:O	2.24	0.51
1:S:703:ASN:OD1	1:S:704:TYR:N	2.43	0.51
1:V:391:SER:OG	1:V:392:PHE:N	2.44	0.51
1:V:259:GLN:HB3	1:W:715:ASP:O	2.11	0.51
1:X:304:TRP:CE2	1:X:689:GLU:HG2	2.46	0.51
1:X:700:TYR:HB2	1:X:730:TYR:CZ	2.45	0.51
1:Y:391:SER:OG	1:Y:392:PHE:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:561:ASP:OD1	1:Z:562:GLU:N	2.44	0.51
1:1:582:ASN:OD1	1:1:591:ALA:N	2.35	0.51
1:4:443:TYR:HA	1:4:464:GLN:HA	1.93	0.51
1:U:259:GLN:HB3	1:5:715:ASP:O	220.08	0.51
1:5:700:TYR:HB2	1:5:730:TYR:CZ	2.45	0.51
1:6:391:SER:OG	1:6:392:PHE:N	2.44	0.51
1:B:326:ASN:O	1:B:329:THR:OG1	2.19	0.51
1:B:508:TYR:HA	1:C:577:GLY:HA3	72.23	0.51
1:C:715:ASP:CG	1:C:716:THR:H	2.13	0.51
1:D:561:ASP:OD1	1:D:562:GLU:N	2.44	0.51
1:F:326:ASN:O	1:F:329:THR:OG1	2.19	0.51
1:F:391:SER:OG	1:F:392:PHE:N	2.44	0.51
1:G:257:TYR:OH	1:G:396:GLU:OE1	2.28	0.51
1:H:391:SER:OG	1:H:392:PHE:N	2.44	0.51
1:J:577:GLY:HA3	1:K:508:TYR:HA	75.98	0.51
1:Q:561:ASP:OD1	1:Q:562:GLU:N	2.44	0.51
1:Q:658:SER:O	1:Q:659:THR:OG1	2.27	0.51
1:Q:304:TRP:CE2	1:Q:689:GLU:HG2	2.46	0.51
1:R:452:SER:OG	1:R:456:THR:O	2.27	0.51
1:S:391:SER:OG	1:S:392:PHE:N	2.44	0.51
1:D:259:GLN:HB3	1:S:715:ASP:O	123.00	0.51
1:V:259:GLN:HB3	1:1:715:ASP:O	185.24	0.51
1:V:561:ASP:OD1	1:V:562:GLU:N	2.44	0.51
1:V:700:TYR:HB2	1:V:730:TYR:CZ	2.45	0.51
1:W:304:TRP:CE2	1:W:689:GLU:HG2	2.46	0.51
1:Y:561:ASP:OD1	1:Y:562:GLU:N	2.44	0.51
1:1:304:TRP:CE2	1:1:689:GLU:HG2	2.46	0.51
1:2:715:ASP:CG	1:2:716:THR:H	2.13	0.51
1:7:695:ASN:HB2	1:7:696:PRO:HD2	1.93	0.51
1:5:259:GLN:HB3	1:8:715:ASP:O	2.11	0.51
1:A:658:SER:O	1:A:659:THR:OG1	2.27	0.51
1:B:700:TYR:HB2	1:B:730:TYR:CZ	2.45	0.51
1:E:259:GLN:HB3	1:U:715:ASP:O	153.45	0.51
1:O:577:GLY:HA3	1:P:508:TYR:HA	72.22	0.51
1:Q:715:ASP:O	1:S:259:GLN:HB3	2.11	0.51
1:S:304:TRP:CE2	1:S:689:GLU:HG2	2.46	0.51
1:U:703:ASN:OD1	1:U:704:TYR:N	2.43	0.51
1:H:577:GLY:HA3	1:W:508:TYR:HA	1.91	0.51
1:W:658:SER:O	1:W:659:THR:OG1	2.27	0.51
1:Y:715:ASP:O	1:4:259:GLN:HB3	2.10	0.51
1:Z:304:TRP:CE2	1:Z:689:GLU:HG2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:268:ASN:HA	1:1:271:HIS:NE2	2.25	0.51
1:1:695:ASN:HB2	1:1:696:PRO:HD2	1.93	0.51
1:2:561:ASP:OD1	1:2:562:GLU:N	2.44	0.51
1:2:609:ARG:O	1:2:729:ARG:NH2	2.44	0.51
1:3:304:TRP:CE2	1:3:689:GLU:HG2	2.46	0.51
1:3:715:ASP:OD1	1:3:716:THR:N	2.39	0.51
1:3:700:TYR:HB2	1:3:730:TYR:CZ	2.45	0.51
1:4:326:ASN:O	1:4:329:THR:OG1	2.19	0.51
1:4:581:THR:N	1:4:591:ALA:O	2.37	0.51
1:4:610:ASP:OD1	1:4:611:VAL:N	2.43	0.51
1:5:304:TRP:CE2	1:5:689:GLU:HG2	2.46	0.51
1:5:695:ASN:HB2	1:5:696:PRO:HD2	1.93	0.51
1:6:257:TYR:OH	1:6:396:GLU:OE1	2.28	0.51
1:6:452:SER:OG	1:6:456:THR:O	2.27	0.51
1:7:304:TRP:CE2	1:7:689:GLU:HG2	2.46	0.51
1:B:452:SER:OG	1:B:456:THR:O	2.27	0.51
1:C:391:SER:OG	1:C:392:PHE:N	2.44	0.51
1:C:247:TRP:NE1	1:C:677:GLN:O	2.34	0.51
1:E:695:ASN:HB2	1:E:696:PRO:HD2	1.93	0.51
1:G:695:ASN:HB2	1:G:696:PRO:HD2	1.93	0.51
1:I:582:ASN:OD1	1:I:591:ALA:N	2.35	0.51
1:J:715:ASP:CG	1:J:716:THR:H	2.13	0.51
1:K:658:SER:O	1:K:659:THR:OG1	2.27	0.51
1:M:304:TRP:CE2	1:M:689:GLU:HG2	2.46	0.51
1:M:347:GLU:OE1	1:M:347:GLU:N	2.41	0.51
1:O:443:TYR:HA	1:O:464:GLN:HA	1.92	0.51
1:P:695:ASN:HB2	1:P:696:PRO:HD2	1.93	0.51
1:Q:449:ASN:O	1:Q:450:THR:OG1	2.20	0.51
1:Q:695:ASN:HB2	1:Q:696:PRO:HD2	1.93	0.51
1:R:259:GLN:HB3	1:V:715:ASP:O	2.11	0.51
1:T:452:SER:OG	1:T:456:THR:O	2.27	0.51
1:T:695:ASN:HB2	1:T:696:PRO:HD2	1.93	0.51
1:U:257:TYR:OH	1:U:396:GLU:OE1	2.28	0.51
1:V:257:TYR:OH	1:V:396:GLU:OE1	2.28	0.51
1:V:452:SER:OG	1:V:456:THR:O	2.27	0.51
1:X:582:ASN:OD1	1:X:591:ALA:N	2.35	0.51
1:2:658:SER:O	1:2:659:THR:OG1	2.27	0.50
1:3:584:GLN:OE1	1:3:584:GLN:N	2.43	0.50
1:4:545:GLN:N	1:4:545:GLN:OE1	2.34	0.50
1:7:268:ASN:HA	1:7:271:HIS:NE2	2.25	0.50
1:7:391:SER:OG	1:7:392:PHE:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:429:SER:OG	1:7:431:ASP:OD1	2.18	0.50
1:8:391:SER:OG	1:8:392:PHE:N	2.44	0.50
1:B:561:ASP:OD1	1:B:562:GLU:N	2.44	0.50
1:D:658:SER:O	1:D:659:THR:OG1	2.27	0.50
1:D:693:ARG:NH1	1:L:391:SER:HA	125.13	0.50
1:D:609:ARG:O	1:D:729:ARG:NH2	2.44	0.50
1:E:391:SER:OG	1:E:392:PHE:N	2.44	0.50
1:E:304:TRP:CE2	1:E:689:GLU:HG2	2.46	0.50
1:J:438:ILE:HG22	1:J:439:ASP:H	1.77	0.50
1:J:698:ILE:O	1:W:701:THR:OG1	158.46	0.50
1:J:701:THR:OG1	1:K:698:ILE:O	2.18	0.50
1:L:391:SER:OG	1:L:392:PHE:N	2.44	0.50
1:L:609:ARG:O	1:L:729:ARG:NH2	2.45	0.50
1:N:326:ASN:O	1:N:329:THR:OG1	2.19	0.50
1:N:610:ASP:OD1	1:N:611:VAL:N	2.44	0.50
1:M:259:GLN:HB3	1:N:715:ASP:O	77.87	0.50
1:O:304:TRP:CE2	1:O:689:GLU:HG2	2.46	0.50
1:P:391:SER:OG	1:P:392:PHE:N	2.44	0.50
1:C:633:LEU:HB2	1:P:476:ASN:HA	63.72	0.50
1:P:609:ARG:O	1:P:729:ARG:NH2	2.45	0.50
1:P:715:ASP:O	1:Q:259:GLN:HB3	2.11	0.50
1:Q:715:ASP:CG	1:Q:716:THR:H	2.13	0.50
1:R:438:ILE:HG22	1:R:439:ASP:H	1.77	0.50
1:R:610:ASP:OD1	1:R:611:VAL:N	2.43	0.50
1:S:609:ARG:O	1:S:729:ARG:NH2	2.44	0.50
1:S:695:ASN:HB2	1:S:696:PRO:HD2	1.93	0.50
1:T:609:ARG:O	1:T:729:ARG:NH2	2.44	0.50
1:U:609:ARG:O	1:U:729:ARG:NH2	2.44	0.50
1:U:695:ASN:HB2	1:U:696:PRO:HD2	1.93	0.50
1:V:715:ASP:O	1:W:259:GLN:HB3	77.87	0.50
1:W:438:ILE:HG22	1:W:439:ASP:H	1.77	0.50
1:X:561:ASP:OD1	1:X:562:GLU:N	2.44	0.50
1:Y:438:ILE:HG22	1:Y:439:ASP:H	1.77	0.50
1:Y:581:THR:N	1:Y:591:ALA:O	2.37	0.50
1:T:259:GLN:HB3	1:Y:715:ASP:O	182.50	0.50
1:Z:347:GLU:N	1:Z:347:GLU:OE1	2.41	0.50
1:Z:609:ARG:O	1:Z:729:ARG:NH2	2.45	0.50
1:U:715:ASP:O	1:2:259:GLN:HB3	185.88	0.50
1:3:257:TYR:OH	1:3:396:GLU:OE1	2.28	0.50
1:Z:259:GLN:HB3	1:4:715:ASP:O	93.97	0.50
1:5:391:SER:OG	1:5:392:PHE:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:610:ASP:OD1	1:5:611:VAL:N	2.43	0.50
1:6:545:GLN:N	1:6:545:GLN:OE1	2.34	0.50
1:K:259:GLN:HB3	1:7:715:ASP:O	2.11	0.50
1:8:609:ARG:O	1:8:729:ARG:NH2	2.45	0.50
1:B:361:CYS:O	1:B:362:LEU:HD12	2.12	0.50
1:B:257:TYR:OH	1:B:396:GLU:OE1	2.28	0.50
1:C:438:ILE:HG22	1:C:439:ASP:H	1.77	0.50
1:D:584:GLN:OE1	1:D:584:GLN:N	2.43	0.50
1:D:695:ASN:HB2	1:D:696:PRO:HD2	1.93	0.50
1:C:259:GLN:HB3	1:D:715:ASP:O	2.12	0.50
1:F:609:ARG:O	1:F:729:ARG:NH2	2.44	0.50
1:G:561:ASP:OD1	1:G:562:GLU:N	2.44	0.50
1:H:609:ARG:O	1:H:729:ARG:NH2	2.45	0.50
1:I:695:ASN:HB2	1:I:696:PRO:HD2	1.93	0.50
1:K:609:ARG:O	1:K:729:ARG:NH2	2.45	0.50
1:K:610:ASP:OD1	1:K:611:VAL:N	2.43	0.50
1:L:438:ILE:HG22	1:L:439:ASP:H	1.77	0.50
1:M:391:SER:OG	1:M:392:PHE:N	2.44	0.50
1:N:609:ARG:O	1:N:729:ARG:NH2	2.44	0.50
1:Q:391:SER:OG	1:Q:392:PHE:N	2.44	0.50
1:Q:438:ILE:HG22	1:Q:439:ASP:H	1.77	0.50
1:R:609:ARG:O	1:R:729:ARG:NH2	2.45	0.50
1:V:610:ASP:OD1	1:V:611:VAL:N	2.43	0.50
1:A:715:ASP:O	1:Z:259:GLN:HB3	154.84	0.50
1:3:438:ILE:HG22	1:3:439:ASP:H	1.77	0.50
1:3:561:ASP:OD1	1:3:562:GLU:N	2.44	0.50
1:5:561:ASP:OD1	1:5:562:GLU:N	2.44	0.50
1:6:695:ASN:HB2	1:6:696:PRO:HD2	1.93	0.50
1:6:609:ARG:O	1:6:729:ARG:NH2	2.44	0.50
1:7:449:ASN:O	1:7:450:THR:OG1	2.20	0.50
1:7:561:ASP:OD1	1:7:562:GLU:N	2.44	0.50
1:A:256:LEU:O	1:A:256:LEU:HD12	2.12	0.50
1:A:304:TRP:CE2	1:A:689:GLU:HG2	2.46	0.50
1:A:609:ARG:O	1:A:729:ARG:NH2	2.45	0.50
1:E:609:ARG:O	1:E:729:ARG:NH2	2.45	0.50
1:F:438:ILE:HG22	1:F:439:ASP:H	1.77	0.50
1:I:391:SER:OG	1:I:392:PHE:N	2.44	0.50
1:J:610:ASP:OD1	1:J:611:VAL:N	2.43	0.50
1:K:715:ASP:O	1:L:259:GLN:HB3	2.12	0.50
1:M:438:ILE:HG22	1:M:439:ASP:H	1.77	0.50
1:M:443:TYR:HA	1:M:464:GLN:HA	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:561:ASP:OD1	1:M:562:GLU:N	2.44	0.50
1:S:256:LEU:O	1:S:256:LEU:HD12	2.12	0.50
1:T:256:LEU:O	1:T:256:LEU:HD12	2.12	0.50
1:T:582:ASN:OD1	1:T:591:ALA:N	2.35	0.50
1:T:715:ASP:O	1:6:259:GLN:HB3	220.27	0.50
1:X:695:ASN:HB2	1:X:696:PRO:HD2	1.93	0.50
1:Y:361:CYS:O	1:Y:362:LEU:HD12	2.12	0.50
1:Y:257:TYR:OH	1:Y:396:GLU:OE1	2.28	0.50
1:Y:452:SER:OG	1:Y:456:THR:O	2.27	0.50
1:Y:610:ASP:OD1	1:Y:611:VAL:N	2.43	0.50
1:H:259:GLN:HB3	1:Z:715:ASP:O	2.11	0.50
1:1:256:LEU:HD12	1:1:256:LEU:O	2.12	0.50
1:1:308:PRO:HD3	1:1:637:PHE:HE2	1.77	0.50
1:2:438:ILE:HG22	1:2:439:ASP:H	1.77	0.50
1:3:452:SER:OG	1:3:456:THR:O	2.27	0.50
1:4:304:TRP:CE2	1:4:689:GLU:HG2	2.46	0.50
1:5:256:LEU:HD12	1:5:256:LEU:O	2.12	0.50
1:7:609:ARG:O	1:7:729:ARG:NH2	2.44	0.50
1:B:429:SER:OG	1:B:431:ASP:OD1	2.18	0.50
1:C:496:ASN:HA	1:P:586:GLY:O	83.22	0.50
1:D:259:GLN:HB3	1:E:715:ASP:O	2.11	0.50
1:D:391:SER:OG	1:D:392:PHE:N	2.44	0.50
1:D:698:ILE:O	1:M:701:THR:OG1	2.18	0.50
1:G:308:PRO:HD3	1:G:637:PHE:HE2	1.77	0.50
1:G:391:SER:OG	1:G:392:PHE:N	2.44	0.50
1:H:256:LEU:O	1:H:256:LEU:HD12	2.12	0.50
1:I:438:ILE:HG22	1:I:439:ASP:H	1.77	0.50
1:I:715:ASP:CG	1:I:716:THR:H	2.13	0.50
1:J:391:SER:OG	1:J:392:PHE:N	2.44	0.50
1:J:609:ARG:O	1:J:729:ARG:NH2	2.44	0.50
1:K:256:LEU:HD12	1:K:256:LEU:O	2.12	0.50
1:K:361:CYS:O	1:K:362:LEU:HD12	2.12	0.50
1:K:695:ASN:HB2	1:K:696:PRO:HD2	1.93	0.50
1:L:361:CYS:O	1:L:362:LEU:HD12	2.12	0.50
1:O:256:LEU:HD12	1:O:256:LEU:O	2.12	0.50
1:O:391:SER:OG	1:O:392:PHE:N	2.44	0.50
1:P:582:ASN:OD1	1:P:591:ALA:N	2.35	0.50
1:Q:256:LEU:O	1:Q:256:LEU:HD12	2.12	0.50
1:R:361:CYS:O	1:R:362:LEU:HD12	2.12	0.50
1:R:561:ASP:OD1	1:R:562:GLU:N	2.44	0.50
1:T:308:PRO:HD3	1:T:637:PHE:HE2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:361:CYS:O	1:T:362:LEU:HD12	2.12	0.50
1:T:561:ASP:OD1	1:T:562:GLU:N	2.44	0.50
1:U:361:CYS:O	1:U:362:LEU:HD12	2.12	0.50
1:V:256:LEU:HD12	1:V:256:LEU:O	2.12	0.50
1:V:361:CYS:O	1:V:362:LEU:HD12	2.12	0.50
1:V:438:ILE:HG22	1:V:439:ASP:H	1.77	0.50
1:W:443:TYR:HA	1:W:464:GLN:HA	1.92	0.50
1:W:695:ASN:HB2	1:W:696:PRO:HD2	1.93	0.50
1:W:609:ARG:O	1:W:729:ARG:NH2	2.45	0.50
1:X:609:ARG:O	1:X:729:ARG:NH2	2.44	0.50
1:Y:304:TRP:CE2	1:Y:689:GLU:HG2	2.46	0.50
1:Z:361:CYS:O	1:Z:362:LEU:HD12	2.12	0.50
1:1:449:ASN:O	1:1:450:THR:OG1	2.20	0.50
1:U:701:THR:OG1	1:1:698:ILE:O	175.85	0.50
1:2:391:SER:OG	1:2:392:PHE:N	2.44	0.50
1:2:695:ASN:HB2	1:2:696:PRO:HD2	1.93	0.50
1:3:361:CYS:O	1:3:362:LEU:HD12	2.12	0.50
1:3:391:SER:OG	1:3:392:PHE:N	2.44	0.50
1:4:609:ARG:O	1:4:729:ARG:NH2	2.44	0.50
1:5:449:ASN:O	1:5:450:THR:OG1	2.20	0.50
1:5:609:ARG:O	1:5:729:ARG:NH2	2.45	0.50
1:6:256:LEU:O	1:6:256:LEU:HD12	2.12	0.50
1:6:571:VAL:HG12	1:6:572:ALA:N	2.23	0.50
1:8:695:ASN:HB2	1:8:696:PRO:HD2	1.93	0.50
1:B:391:SER:OG	1:B:392:PHE:N	2.44	0.50
1:B:438:ILE:HG22	1:B:439:ASP:H	1.77	0.50
1:C:545:GLN:OE1	1:C:545:GLN:N	2.34	0.50
1:C:609:ARG:O	1:C:729:ARG:NH2	2.45	0.50
1:D:361:CYS:O	1:D:362:LEU:HD12	2.12	0.50
1:D:438:ILE:HG22	1:D:439:ASP:H	1.77	0.50
1:F:256:LEU:O	1:F:256:LEU:HD12	2.12	0.50
1:F:695:ASN:HB2	1:F:696:PRO:HD2	1.93	0.50
1:E:701:THR:OG1	1:F:698:ILE:O	64.64	0.50
1:G:361:CYS:O	1:G:362:LEU:HD12	2.12	0.50
1:G:438:ILE:HG22	1:G:439:ASP:H	1.77	0.50
1:H:438:ILE:HG22	1:H:439:ASP:H	1.77	0.50
1:H:581:THR:N	1:H:591:ALA:O	2.37	0.50
1:J:304:TRP:CE2	1:J:689:GLU:HG2	2.46	0.50
1:K:391:SER:OG	1:K:392:PHE:N	2.44	0.50
1:K:438:ILE:HG22	1:K:439:ASP:H	1.77	0.50
1:N:256:LEU:O	1:N:256:LEU:HD12	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:304:TRP:CE2	1:N:689:GLU:HG2	2.46	0.50
1:C:484:ARG:HB2	1:P:579:VAL:HG22	82.10	0.50
1:R:695:ASN:HB2	1:R:696:PRO:HD2	1.93	0.50
1:S:361:CYS:O	1:S:362:LEU:HD12	2.12	0.50
1:S:438:ILE:HG22	1:S:439:ASP:H	1.77	0.50
1:T:429:SER:OG	1:T:431:ASP:OD1	2.18	0.50
1:T:438:ILE:HG22	1:T:439:ASP:H	1.77	0.50
1:U:256:LEU:O	1:U:256:LEU:HD12	2.12	0.50
1:V:658:SER:O	1:V:659:THR:OG1	2.27	0.50
1:1:361:CYS:O	1:1:362:LEU:HD12	2.12	0.50
1:1:391:SER:OG	1:1:392:PHE:N	2.44	0.50
1:3:443:TYR:HA	1:3:464:GLN:HA	1.92	0.50
1:4:268:ASN:HA	1:4:271:HIS:NE2	2.25	0.50
1:O:701:THR:OG1	1:6:698:ILE:O	159.65	0.50
1:7:256:LEU:O	1:7:256:LEU:HD12	2.12	0.50
1:7:326:ASN:O	1:7:329:THR:OG1	2.19	0.50
1:8:582:ASN:OD1	1:8:591:ALA:N	2.35	0.50
1:B:610:ASP:OD1	1:B:611:VAL:N	2.43	0.50
1:C:347:GLU:OE1	1:C:347:GLU:N	2.41	0.50
1:E:256:LEU:HD12	1:E:256:LEU:O	2.12	0.50
1:E:308:PRO:HD3	1:E:637:PHE:HE2	1.77	0.50
1:E:361:CYS:O	1:E:362:LEU:HD12	2.12	0.50
1:G:256:LEU:O	1:G:256:LEU:HD12	2.12	0.50
1:H:361:CYS:O	1:H:362:LEU:HD12	2.12	0.50
1:H:541:ILE:HG22	1:H:542:PHE:O	2.12	0.50
1:I:361:CYS:O	1:I:362:LEU:HD12	2.12	0.50
1:I:609:ARG:O	1:I:729:ARG:NH2	2.44	0.50
1:J:695:ASN:HB2	1:J:696:PRO:HD2	1.93	0.50
1:K:452:SER:OG	1:K:456:THR:O	2.27	0.50
1:K:541:ILE:HG22	1:K:542:PHE:O	2.12	0.50
1:M:582:ASN:OD1	1:M:591:ALA:N	2.35	0.50
1:M:609:ARG:O	1:M:729:ARG:NH2	2.45	0.50
1:N:361:CYS:O	1:N:362:LEU:HD12	2.12	0.50
1:O:361:CYS:O	1:O:362:LEU:HD12	2.12	0.50
1:O:438:ILE:HG22	1:O:439:ASP:H	1.77	0.50
1:O:695:ASN:HB2	1:O:696:PRO:HD2	1.93	0.50
1:P:361:CYS:O	1:P:362:LEU:HD12	2.12	0.50
1:P:438:ILE:HG22	1:P:439:ASP:H	1.77	0.50
1:P:541:ILE:HG22	1:P:542:PHE:O	2.12	0.50
1:P:694:TRP:CZ3	1:S:292:SER:HB3	104.48	0.50
1:Q:609:ARG:O	1:Q:729:ARG:NH2	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:347:GLU:OE1	1:R:347:GLU:N	2.41	0.50
1:T:347:GLU:OE1	1:T:347:GLU:N	2.41	0.50
1:T:391:SER:OG	1:T:392:PHE:N	2.44	0.50
1:S:701:THR:OG1	1:T:698:ILE:O	2.17	0.50
1:U:438:ILE:HG22	1:U:439:ASP:H	1.77	0.50
1:V:695:ASN:HB2	1:V:696:PRO:HD2	1.93	0.50
1:V:609:ARG:O	1:V:729:ARG:NH2	2.45	0.50
1:W:391:SER:OG	1:W:392:PHE:N	2.44	0.50
1:X:308:PRO:HD3	1:X:637:PHE:HE2	1.77	0.50
1:Y:256:LEU:O	1:Y:256:LEU:HD12	2.12	0.50
1:Y:247:TRP:NE1	1:Y:677:GLN:O	2.34	0.50
1:Y:695:ASN:HB2	1:Y:696:PRO:HD2	1.93	0.50
1:4:256:LEU:HD12	1:4:256:LEU:O	2.12	0.50
1:5:326:ASN:O	1:5:329:THR:OG1	2.19	0.50
1:5:247:TRP:NE1	1:5:677:GLN:O	2.34	0.50
1:6:541:ILE:HG22	1:6:542:PHE:O	2.12	0.50
1:7:431:ASP:OD1	1:7:432:ALA:N	2.45	0.50
1:8:361:CYS:O	1:8:362:LEU:HD12	2.12	0.50
1:A:361:CYS:O	1:A:362:LEU:HD12	2.12	0.50
1:B:378:LEU:O	1:B:379:THR:OG1	2.26	0.50
1:B:609:ARG:O	1:B:729:ARG:NH2	2.44	0.50
1:C:256:LEU:HD12	1:C:256:LEU:O	2.12	0.50
1:C:695:ASN:HB2	1:C:696:PRO:HD2	1.93	0.50
1:F:259:GLN:HB3	1:R:715:ASP:O	2.11	0.50
1:F:361:CYS:O	1:F:362:LEU:HD12	2.12	0.50
1:G:541:ILE:HG22	1:G:542:PHE:O	2.12	0.50
1:G:609:ARG:O	1:G:729:ARG:NH2	2.44	0.50
1:H:582:ASN:OD1	1:H:591:ALA:N	2.35	0.50
1:L:347:GLU:OE1	1:L:347:GLU:N	2.41	0.50
1:L:695:ASN:HB2	1:L:696:PRO:HD2	1.93	0.50
1:N:259:GLN:HB3	1:R:715:ASP:O	153.92	0.50
1:O:609:ARG:O	1:O:729:ARG:NH2	2.45	0.50
1:P:256:LEU:HD12	1:P:256:LEU:O	2.12	0.50
1:P:308:PRO:HD3	1:P:637:PHE:HE2	1.77	0.50
1:R:541:ILE:HG22	1:R:542:PHE:O	2.12	0.50
1:U:431:ASP:OD1	1:U:432:ALA:N	2.45	0.50
1:V:247:TRP:NE1	1:V:677:GLN:O	2.34	0.50
1:W:308:PRO:HD3	1:W:637:PHE:HE2	1.77	0.50
1:W:431:ASP:OD1	1:W:432:ALA:N	2.45	0.50
1:X:361:CYS:O	1:X:362:LEU:HD12	2.12	0.50
1:X:703:ASN:OD1	1:X:704:TYR:N	2.43	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:609:ARG:O	1:Y:729:ARG:NH2	2.44	0.50
1:Z:452:SER:OG	1:Z:456:THR:O	2.27	0.50
1:1:257:TYR:OH	1:1:396:GLU:OE1	2.28	0.50
1:3:695:ASN:HB2	1:3:696:PRO:HD2	1.93	0.50
1:5:715:ASP:CG	1:5:716:THR:H	2.13	0.50
1:8:438:ILE:HG22	1:8:439:ASP:H	1.77	0.50
1:B:541:ILE:HG22	1:B:542:PHE:O	2.12	0.50
1:D:308:PRO:HD3	1:D:637:PHE:HE2	1.77	0.50
1:E:438:ILE:HG22	1:E:439:ASP:H	1.77	0.50
1:F:431:ASP:OD1	1:F:432:ALA:N	2.45	0.50
1:F:541:ILE:HG22	1:F:542:PHE:O	2.12	0.50
1:I:256:LEU:O	1:I:256:LEU:HD12	2.12	0.50
1:J:259:GLN:HB3	1:L:715:ASP:O	93.97	0.50
1:J:361:CYS:O	1:J:362:LEU:HD12	2.12	0.50
1:J:431:ASP:OD1	1:J:432:ALA:N	2.45	0.50
1:L:429:SER:OG	1:L:431:ASP:OD1	2.18	0.50
1:M:715:ASP:O	1:N:259:GLN:HB3	2.11	0.50
1:N:438:ILE:HG22	1:N:439:ASP:H	1.77	0.50
1:N:308:PRO:HD3	1:N:637:PHE:HE2	1.77	0.50
1:O:326:ASN:O	1:O:329:THR:OG1	2.19	0.50
1:Q:431:ASP:OD1	1:Q:432:ALA:N	2.45	0.50
1:R:431:ASP:OD1	1:R:432:ALA:N	2.45	0.50
1:U:391:SER:OG	1:U:392:PHE:N	2.44	0.50
1:U:541:ILE:HG22	1:U:542:PHE:O	2.12	0.50
1:V:541:ILE:HG22	1:V:542:PHE:O	2.12	0.50
1:W:361:CYS:O	1:W:362:LEU:HD12	2.12	0.50
1:F:715:ASP:O	1:X:259:GLN:HB3	143.25	0.50
1:Y:541:ILE:HG22	1:Y:542:PHE:O	2.12	0.50
1:Z:582:ASN:OD1	1:Z:591:ALA:N	2.35	0.50
1:2:308:PRO:HD3	1:2:637:PHE:HE2	1.77	0.50
1:4:431:ASP:OD1	1:4:432:ALA:N	2.45	0.50
1:7:347:GLU:OE1	1:7:347:GLU:N	2.41	0.50
1:A:259:GLN:HB3	1:J:715:ASP:O	91.45	0.50
1:A:308:PRO:HD3	1:A:637:PHE:HE2	1.77	0.50
1:A:326:ASN:O	1:A:329:THR:OG1	2.19	0.50
1:B:431:ASP:OD1	1:B:432:ALA:N	2.45	0.50
1:C:431:ASP:OD1	1:C:432:ALA:N	2.45	0.50
1:C:449:ASN:O	1:C:450:THR:OG1	2.20	0.50
1:C:541:ILE:HG22	1:C:542:PHE:O	2.12	0.50
1:D:256:LEU:HD12	1:D:256:LEU:O	2.12	0.50
1:E:431:ASP:OD1	1:E:432:ALA:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:541:ILE:HG22	1:I:542:PHE:O	2.12	0.50
1:L:541:ILE:HG22	1:L:542:PHE:O	2.12	0.50
1:C:492:SER:OG	1:P:458:SER:OG	74.75	0.50
1:R:449:ASN:O	1:R:450:THR:OG1	2.20	0.50
1:S:541:ILE:HG22	1:S:542:PHE:O	2.12	0.50
1:T:541:ILE:HG22	1:T:542:PHE:O	2.12	0.50
1:X:256:LEU:HD12	1:X:256:LEU:O	2.12	0.50
1:X:431:ASP:OD1	1:X:432:ALA:N	2.45	0.50
1:X:438:ILE:HG22	1:X:439:ASP:H	1.77	0.50
1:Y:431:ASP:OD1	1:Y:432:ALA:N	2.45	0.50
1:Y:308:PRO:HD3	1:Y:637:PHE:HE2	1.77	0.50
1:Z:695:ASN:HB2	1:Z:696:PRO:HD2	1.93	0.50
1:1:452:SER:OG	1:1:456:THR:O	2.27	0.49
1:1:610:ASP:OD1	1:1:611:VAL:N	2.43	0.49
1:2:541:ILE:HG22	1:2:542:PHE:O	2.12	0.49
1:5:541:ILE:HG22	1:5:542:PHE:O	2.12	0.49
1:6:438:ILE:HG22	1:6:439:ASP:H	1.77	0.49
1:7:438:ILE:HG22	1:7:439:ASP:H	1.77	0.49
1:8:256:LEU:O	1:8:256:LEU:HD12	2.12	0.49
1:A:438:ILE:HG22	1:A:439:ASP:H	1.77	0.49
1:D:541:ILE:HG22	1:D:542:PHE:O	2.12	0.49
1:L:452:SER:OG	1:L:456:THR:O	2.27	0.49
1:N:391:SER:OG	1:N:392:PHE:N	2.44	0.49
1:N:431:ASP:OD1	1:N:432:ALA:N	2.45	0.49
1:N:541:ILE:HG22	1:N:542:PHE:O	2.12	0.49
1:Q:361:CYS:O	1:Q:362:LEU:HD12	2.12	0.49
1:Q:541:ILE:HG22	1:Q:542:PHE:O	2.12	0.49
1:R:391:SER:OG	1:R:392:PHE:N	2.44	0.49
1:V:308:PRO:HD3	1:V:637:PHE:HE2	1.77	0.49
1:X:584:GLN:OE1	1:X:584:GLN:N	2.43	0.49
1:Z:429:SER:OG	1:Z:431:ASP:OD1	2.18	0.49
1:2:429:SER:OG	1:2:431:ASP:OD1	2.18	0.49
1:5:361:CYS:O	1:5:362:LEU:HD12	2.12	0.49
1:6:308:PRO:HD3	1:6:637:PHE:HE2	1.77	0.49
1:7:541:ILE:HG22	1:7:542:PHE:O	2.12	0.49
1:7:582:ASN:OD1	1:7:591:ALA:N	2.35	0.49
1:A:391:SER:OG	1:A:392:PHE:N	2.44	0.49
1:A:541:ILE:HG22	1:A:542:PHE:O	2.12	0.49
1:D:429:SER:OG	1:D:431:ASP:OD1	2.18	0.49
1:F:308:PRO:HD3	1:F:637:PHE:HE2	1.77	0.49
1:F:527:LYS:HG2	1:F:528:ASP:OD1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:378:LEU:O	1:H:379:THR:OG1	2.26	0.49
1:H:431:ASP:OD1	1:H:432:ALA:N	2.45	0.49
1:H:695:ASN:HB2	1:H:696:PRO:HD2	1.93	0.49
1:J:527:LYS:HG2	1:J:528:ASP:OD1	2.13	0.49
1:J:541:ILE:HG22	1:J:542:PHE:O	2.12	0.49
1:O:553:ASP:OD1	1:O:554:ILE:N	2.46	0.49
1:O:582:ASN:OD1	1:O:591:ALA:N	2.35	0.49
1:P:431:ASP:OD1	1:P:432:ALA:N	2.45	0.49
1:Q:416:GLU:OE1	1:Q:416:GLU:N	2.28	0.49
1:Q:508:TYR:HA	1:S:577:GLY:HA3	95.47	0.49
1:R:259:GLN:HB3	1:X:715:ASP:O	91.40	0.49
1:T:610:ASP:OD1	1:T:611:VAL:N	2.43	0.49
1:U:308:PRO:HD3	1:U:637:PHE:HE2	1.77	0.49
1:U:610:ASP:OD1	1:U:611:VAL:N	2.43	0.49
1:V:431:ASP:OD1	1:V:432:ALA:N	2.45	0.49
1:W:557:VAL:O	1:W:558:MET:HB2	2.13	0.49
1:Z:541:ILE:HG22	1:Z:542:PHE:O	2.12	0.49
1:1:527:LYS:HG2	1:1:528:ASP:OD1	2.13	0.49
1:5:438:ILE:HG22	1:5:439:ASP:H	1.77	0.49
1:7:527:LYS:HG2	1:7:528:ASP:OD1	2.13	0.49
1:B:557:VAL:O	1:B:558:MET:HB2	2.13	0.49
1:B:695:ASN:HB2	1:B:696:PRO:HD2	1.93	0.49
1:C:527:LYS:HG2	1:C:528:ASP:OD1	2.13	0.49
1:E:347:GLU:N	1:E:347:GLU:OE1	2.41	0.49
1:E:527:LYS:HG2	1:E:528:ASP:OD1	2.13	0.49
1:F:598:GLN:HG3	1:F:599:GLY:O	2.13	0.49
1:G:347:GLU:N	1:G:347:GLU:OE1	2.41	0.49
1:G:431:ASP:OD1	1:G:432:ALA:N	2.45	0.49
1:L:443:TYR:OH	1:T:547:SER:OG	209.56	0.49
1:L:527:LYS:HG2	1:L:528:ASP:OD1	2.13	0.49
1:Q:518:ASN:HD22	1:S:474:SER:N	93.63	0.49
1:R:256:LEU:O	1:R:256:LEU:HD12	2.12	0.49
1:M:715:ASP:O	1:S:259:GLN:HB3	136.56	0.49
1:S:431:ASP:OD1	1:S:432:ALA:N	2.45	0.49
1:T:431:ASP:OD1	1:T:432:ALA:N	2.45	0.49
1:U:443:TYR:OH	1:V:547:SER:OG	50.13	0.49
1:V:582:ASN:OD1	1:V:591:ALA:N	2.35	0.49
1:K:259:GLN:HB3	1:W:715:ASP:O	200.78	0.49
1:J:715:ASP:O	1:X:259:GLN:HB3	175.60	0.49
1:X:527:LYS:HG2	1:X:528:ASP:OD1	2.13	0.49
1:X:541:ILE:HG22	1:X:542:PHE:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:443:TYR:HA	1:1:464:GLN:HA	1.93	0.49
1:1:609:ARG:O	1:1:729:ARG:NH2	2.44	0.49
1:3:609:ARG:O	1:3:729:ARG:NH2	2.44	0.49
1:4:541:ILE:HG22	1:4:542:PHE:O	2.12	0.49
1:7:581:THR:N	1:7:591:ALA:O	2.37	0.49
1:A:527:LYS:HG2	1:A:528:ASP:OD1	2.13	0.49
1:A:553:ASP:OD1	1:A:554:ILE:N	2.45	0.49
1:A:598:GLN:HG3	1:A:599:GLY:O	2.13	0.49
1:B:527:LYS:HG2	1:B:528:ASP:OD1	2.13	0.49
1:B:598:GLN:HG3	1:B:599:GLY:O	2.13	0.49
1:E:541:ILE:HG22	1:E:542:PHE:O	2.12	0.49
1:E:557:VAL:O	1:E:558:MET:HB2	2.13	0.49
1:G:610:ASP:OD1	1:G:611:VAL:N	2.43	0.49
1:H:547:SER:HG	1:Y:443:TYR:HH	1.57	0.49
1:J:557:VAL:O	1:J:558:MET:HB2	2.13	0.49
1:J:598:GLN:HG3	1:J:599:GLY:O	2.13	0.49
1:K:553:ASP:OD1	1:K:554:ILE:N	2.45	0.49
1:M:541:ILE:HG22	1:M:542:PHE:O	2.12	0.49
1:M:695:ASN:HB2	1:M:696:PRO:HD2	1.93	0.49
1:N:306:PHE:HA	1:N:686:LEU:HA	1.95	0.49
1:R:598:GLN:HG3	1:R:599:GLY:O	2.13	0.49
1:S:598:GLN:HG3	1:S:599:GLY:O	2.13	0.49
1:T:527:LYS:HG2	1:T:528:ASP:OD1	2.13	0.49
1:X:598:GLN:HG3	1:X:599:GLY:O	2.13	0.49
1:Y:598:GLN:HG3	1:Y:599:GLY:O	2.13	0.49
1:Z:256:LEU:HD12	1:Z:256:LEU:O	2.12	0.49
1:Z:391:SER:OG	1:Z:392:PHE:N	2.44	0.49
1:1:561:ASP:OD1	1:1:562:GLU:N	2.44	0.49
1:2:256:LEU:O	1:2:256:LEU:HD12	2.12	0.49
1:4:695:ASN:HB2	1:4:696:PRO:HD2	1.93	0.49
1:5:527:LYS:HG2	1:5:528:ASP:OD1	2.13	0.49
1:6:361:CYS:O	1:6:362:LEU:HD12	2.12	0.49
1:7:557:VAL:O	1:7:558:MET:HB2	2.13	0.49
1:A:695:ASN:HB2	1:A:696:PRO:HD2	1.93	0.49
1:C:361:CYS:O	1:C:362:LEU:HD12	2.12	0.49
1:C:429:SER:OG	1:C:431:ASP:OD1	2.18	0.49
1:C:557:VAL:O	1:C:558:MET:HB2	2.13	0.49
1:D:443:TYR:OH	1:L:547:SER:OG	139.60	0.49
1:D:443:TYR:OH	1:N:547:SER:OG	2.29	0.49
1:D:553:ASP:OD1	1:D:554:ILE:N	2.46	0.49
1:F:557:VAL:O	1:F:558:MET:HB2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:557:VAL:O	1:G:558:MET:HB2	2.13	0.49
1:E:715:ASP:O	1:H:259:GLN:HB3	171.76	0.49
1:H:553:ASP:OD1	1:H:554:ILE:N	2.45	0.49
1:I:527:LYS:HG2	1:I:528:ASP:OD1	2.13	0.49
1:I:557:VAL:O	1:I:558:MET:HB2	2.13	0.49
1:L:256:LEU:O	1:L:256:LEU:HD12	2.12	0.49
1:L:582:ASN:OD1	1:L:591:ALA:N	2.35	0.49
1:C:715:ASP:O	1:M:259:GLN:HB3	93.97	0.49
1:M:598:GLN:HG3	1:M:599:GLY:O	2.13	0.49
1:N:527:LYS:HG2	1:N:528:ASP:OD1	2.13	0.49
1:D:547:SER:OG	1:P:443:TYR:OH	2.29	0.49
1:P:557:VAL:O	1:P:558:MET:HB2	2.13	0.49
1:Q:308:PRO:HD3	1:Q:637:PHE:HE2	1.77	0.49
1:Q:557:VAL:O	1:Q:558:MET:HB2	2.13	0.49
1:Q:598:GLN:HG3	1:Q:599:GLY:O	2.13	0.49
1:R:527:LYS:HG2	1:R:528:ASP:OD1	2.13	0.49
1:R:553:ASP:OD1	1:R:554:ILE:N	2.46	0.49
1:S:443:TYR:OH	1:U:547:SER:OG	2.29	0.49
1:U:527:LYS:HG2	1:U:528:ASP:OD1	2.13	0.49
1:U:598:GLN:HG3	1:U:599:GLY:O	2.13	0.49
1:W:598:GLN:HG3	1:W:599:GLY:O	2.13	0.49
1:X:715:ASP:O	1:Y:259:GLN:HB3	2.11	0.49
1:Y:553:ASP:OD1	1:Y:554:ILE:N	2.45	0.49
1:2:553:ASP:OD1	1:2:554:ILE:N	2.45	0.49
1:4:306:PHE:HA	1:4:686:LEU:HA	1.95	0.49
1:4:308:PRO:HD3	1:4:637:PHE:HE2	1.77	0.49
1:5:308:PRO:HD3	1:5:637:PHE:HE2	1.77	0.49
1:6:416:GLU:OE1	1:6:416:GLU:N	2.28	0.49
1:6:527:LYS:HG2	1:6:528:ASP:OD1	2.13	0.49
1:7:308:PRO:HD3	1:7:637:PHE:HE2	1.77	0.49
1:K:547:SER:OG	1:8:443:TYR:OH	2.29	0.49
1:8:527:LYS:HG2	1:8:528:ASP:OD1	2.13	0.49
1:8:545:GLN:OE1	1:8:545:GLN:N	2.34	0.49
1:A:557:VAL:O	1:A:558:MET:HB2	2.13	0.49
1:A:306:PHE:HA	1:A:686:LEU:HA	1.95	0.49
1:C:308:PRO:HD3	1:C:637:PHE:HE2	1.77	0.49
1:C:582:ASN:OD1	1:C:591:ALA:N	2.35	0.49
1:C:598:GLN:HG3	1:C:599:GLY:O	2.13	0.49
1:C:658:SER:O	1:C:659:THR:OG1	2.27	0.49
1:E:452:SER:OG	1:E:456:THR:O	2.27	0.49
1:E:553:ASP:OD1	1:E:554:ILE:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:582:ASN:OD1	1:E:591:ALA:N	2.35	0.49
1:F:553:ASP:OD1	1:F:554:ILE:N	2.45	0.49
1:F:610:ASP:OD1	1:F:611:VAL:N	2.43	0.49
1:G:326:ASN:O	1:G:329:THR:OG1	2.19	0.49
1:G:306:PHE:HA	1:G:686:LEU:HA	1.95	0.49
1:I:308:PRO:HD3	1:I:637:PHE:HE2	1.77	0.49
1:J:256:LEU:O	1:J:256:LEU:HD12	2.12	0.49
1:L:557:VAL:O	1:L:558:MET:HB2	2.13	0.49
1:M:361:CYS:O	1:M:362:LEU:HD12	2.12	0.49
1:M:431:ASP:OD1	1:M:432:ALA:N	2.45	0.49
1:O:598:GLN:HG3	1:O:599:GLY:O	2.13	0.49
1:P:347:GLU:N	1:P:347:GLU:OE1	2.41	0.49
1:C:621:ILE:HG22	1:P:477:TRP:CH2	59.60	0.49
1:P:527:LYS:HG2	1:P:528:ASP:OD1	2.13	0.49
1:Q:527:LYS:HG2	1:Q:528:ASP:OD1	2.13	0.49
1:R:557:VAL:O	1:R:558:MET:HB2	2.13	0.49
1:X:306:PHE:HA	1:X:686:LEU:HA	1.95	0.49
1:Z:438:ILE:HG22	1:Z:439:ASP:H	1.77	0.49
1:3:262:SER:N	1:3:272:TYR:O	2.46	0.49
1:4:262:SER:N	1:4:272:TYR:O	2.46	0.49
1:6:553:ASP:OD1	1:6:554:ILE:N	2.45	0.49
1:7:452:SER:OG	1:7:456:THR:O	2.27	0.49
1:B:553:ASP:OD1	1:B:554:ILE:N	2.45	0.49
1:C:306:PHE:HA	1:C:686:LEU:HA	1.95	0.49
1:D:431:ASP:OD1	1:D:432:ALA:N	2.45	0.49
1:G:527:LYS:HG2	1:G:528:ASP:OD1	2.13	0.49
1:G:598:GLN:HG3	1:G:599:GLY:O	2.13	0.49
1:I:598:GLN:HG3	1:I:599:GLY:O	2.13	0.49
1:I:658:SER:O	1:I:659:THR:OG1	2.27	0.49
1:K:431:ASP:OD1	1:K:432:ALA:N	2.45	0.49
1:A:547:SER:OG	1:K:443:TYR:OH	139.78	0.49
1:L:306:PHE:HA	1:L:686:LEU:HA	1.95	0.49
1:M:256:LEU:HD12	1:M:256:LEU:O	2.12	0.49
1:N:262:SER:N	1:N:272:TYR:O	2.46	0.49
1:N:557:VAL:O	1:N:558:MET:HB2	2.13	0.49
1:N:598:GLN:HG3	1:N:599:GLY:O	2.13	0.49
1:O:541:ILE:HG22	1:O:542:PHE:O	2.12	0.49
1:P:306:PHE:HA	1:P:686:LEU:HA	1.95	0.49
1:P:598:GLN:HG3	1:P:599:GLY:O	2.13	0.49
1:R:308:PRO:HD3	1:R:637:PHE:HE2	1.77	0.49
1:S:308:PRO:HD3	1:S:637:PHE:HE2	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:527:LYS:HG2	1:S:528:ASP:OD1	2.13	0.49
1:T:598:GLN:HG3	1:T:599:GLY:O	2.13	0.49
1:U:698:ILE:O	1:1:701:THR:OG1	180.21	0.49
1:W:256:LEU:HD12	1:W:256:LEU:O	2.12	0.49
1:W:527:LYS:HG2	1:W:528:ASP:OD1	2.13	0.49
1:W:553:ASP:OD1	1:W:554:ILE:N	2.46	0.49
1:Y:557:VAL:O	1:Y:558:MET:HB2	2.13	0.49
1:1:262:SER:N	1:1:272:TYR:O	2.46	0.49
1:1:598:GLN:HG3	1:1:599:GLY:O	2.13	0.49
1:2:326:ASN:O	1:2:329:THR:OG1	2.19	0.49
1:2:361:CYS:O	1:2:362:LEU:HD12	2.12	0.49
1:3:610:ASP:OD1	1:3:611:VAL:N	2.43	0.49
1:4:438:ILE:HG22	1:4:439:ASP:H	1.77	0.49
1:7:361:CYS:O	1:7:362:LEU:HD12	2.12	0.49
1:A:245:ARG:CZ	1:A:366:PRO:HA	2.43	0.49
1:H:245:ARG:CZ	1:H:366:PRO:HA	2.43	0.49
1:I:715:ASP:O	1:J:259:GLN:HB3	2.11	0.49
1:J:582:ASN:OD1	1:J:591:ALA:N	2.35	0.49
1:L:598:GLN:HG3	1:L:599:GLY:O	2.13	0.49
1:M:416:GLU:OE1	1:M:416:GLU:N	2.28	0.49
1:M:557:VAL:O	1:M:558:MET:HB2	2.13	0.49
1:N:245:ARG:CZ	1:N:366:PRO:HA	2.43	0.49
1:O:262:SER:N	1:O:272:TYR:O	2.46	0.49
1:R:306:PHE:HA	1:R:686:LEU:HA	1.95	0.49
1:S:262:SER:N	1:S:272:TYR:O	2.46	0.49
1:U:553:ASP:OD1	1:U:554:ILE:N	2.45	0.49
1:U:557:VAL:O	1:U:558:MET:HB2	2.13	0.49
1:V:553:ASP:OD1	1:V:554:ILE:N	2.45	0.49
1:V:557:VAL:O	1:V:558:MET:HB2	2.13	0.49
1:X:557:VAL:O	1:X:558:MET:HB2	2.13	0.49
1:Y:347:GLU:OE1	1:Y:347:GLU:N	2.41	0.49
1:Z:557:VAL:O	1:Z:558:MET:HB2	2.13	0.49
1:Z:598:GLN:HG3	1:Z:599:GLY:O	2.13	0.49
1:3:259:GLN:NE2	1:3:273:PHE:HE1	2.11	0.49
1:3:541:ILE:HG22	1:3:542:PHE:O	2.12	0.49
1:4:598:GLN:HG3	1:4:599:GLY:O	2.13	0.49
1:5:497:ASN:N	1:5:498:SER:HB2	2.28	0.49
1:6:262:SER:N	1:6:272:TYR:O	2.46	0.49
1:8:245:ARG:CZ	1:8:366:PRO:HA	2.43	0.49
1:A:262:SER:N	1:A:272:TYR:O	2.46	0.49
1:B:306:PHE:HA	1:B:686:LEU:HA	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:288:HIS:HE2	1:C:614:GLN:HB3	1.78	0.49
1:D:262:SER:N	1:D:272:TYR:O	2.46	0.49
1:E:497:ASN:N	1:E:498:SER:HB2	2.28	0.49
1:E:598:GLN:HG3	1:E:599:GLY:O	2.13	0.49
1:G:497:ASN:N	1:G:498:SER:HB2	2.28	0.49
1:H:497:ASN:N	1:H:498:SER:HB2	2.28	0.49
1:K:245:ARG:CZ	1:K:366:PRO:HA	2.43	0.49
1:K:306:PHE:HA	1:K:686:LEU:HA	1.95	0.49
1:K:497:ASN:N	1:K:498:SER:HB2	2.28	0.49
1:L:684:TRP:N	1:L:684:TRP:CD1	2.81	0.49
1:L:711:ASP:O	1:L:713:THR:N	2.46	0.49
1:M:343:PHE:HD1	1:M:344:THR:H	1.61	0.49
1:N:695:ASN:HB2	1:N:696:PRO:HD2	1.93	0.49
1:N:711:ASP:O	1:N:713:THR:N	2.46	0.49
1:O:306:PHE:HA	1:O:686:LEU:HA	1.95	0.49
1:O:308:PRO:HD3	1:O:637:PHE:HE2	1.77	0.49
1:O:557:VAL:O	1:O:558:MET:HB2	2.13	0.49
1:P:497:ASN:N	1:P:498:SER:HB2	2.28	0.49
1:Q:262:SER:N	1:Q:272:TYR:O	2.46	0.49
1:Q:497:ASN:N	1:Q:498:SER:HB2	2.28	0.49
1:R:262:SER:N	1:R:272:TYR:O	2.46	0.49
1:R:545:GLN:N	1:R:545:GLN:OE1	2.34	0.49
1:R:684:TRP:CD1	1:R:684:TRP:N	2.81	0.49
1:S:245:ARG:CZ	1:S:366:PRO:HA	2.43	0.49
1:S:306:PHE:HA	1:S:686:LEU:HA	1.95	0.49
1:T:262:SER:N	1:T:272:TYR:O	2.46	0.49
1:T:545:GLN:OE1	1:T:545:GLN:N	2.34	0.49
1:U:262:SER:N	1:U:272:TYR:O	2.46	0.49
1:U:306:PHE:HA	1:U:686:LEU:HA	1.95	0.49
1:X:553:ASP:OD1	1:X:554:ILE:N	2.46	0.49
1:Y:306:PHE:HA	1:Y:686:LEU:HA	1.95	0.49
1:Z:431:ASP:OD1	1:Z:432:ALA:N	2.45	0.49
1:Z:497:ASN:N	1:Z:498:SER:HB2	2.28	0.49
1:1:343:PHE:HD1	1:1:344:THR:H	1.61	0.49
1:1:711:ASP:O	1:1:713:THR:N	2.46	0.49
1:3:256:LEU:HD12	1:3:256:LEU:O	2.12	0.49
1:4:557:VAL:O	1:4:558:MET:HB2	2.13	0.49
1:4:711:ASP:O	1:4:713:THR:N	2.46	0.49
1:5:262:SER:N	1:5:272:TYR:O	2.46	0.49
1:6:255:HIS:ND1	1:6:652:PRO:HG3	2.28	0.49
1:6:431:ASP:OD1	1:6:432:ALA:N	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:610:ASP:OD1	1:6:611:VAL:N	2.43	0.49
1:7:497:ASN:N	1:7:498:SER:HB2	2.28	0.49
1:7:598:GLN:HG3	1:7:599:GLY:O	2.13	0.49
1:8:288:HIS:HE2	1:8:614:GLN:HB3	1.78	0.49
1:8:431:ASP:OD1	1:8:432:ALA:N	2.45	0.49
1:B:497:ASN:N	1:B:498:SER:HB2	2.28	0.49
1:C:255:HIS:ND1	1:C:652:PRO:HG3	2.28	0.49
1:C:343:PHE:HD1	1:C:344:THR:H	1.61	0.49
1:C:711:ASP:O	1:C:713:THR:N	2.46	0.49
1:D:527:LYS:HG2	1:D:528:ASP:OD1	2.13	0.49
1:D:711:ASP:O	1:D:713:THR:N	2.46	0.49
1:E:343:PHE:HD1	1:E:344:THR:H	1.61	0.49
1:F:245:ARG:CZ	1:F:366:PRO:HA	2.43	0.49
1:F:262:SER:N	1:F:272:TYR:O	2.46	0.49
1:F:259:GLN:NE2	1:F:273:PHE:HE1	2.11	0.49
1:H:684:TRP:CD1	1:H:684:TRP:N	2.81	0.49
1:H:306:PHE:HA	1:H:686:LEU:HA	1.95	0.49
1:I:288:HIS:HE2	1:I:614:GLN:HB3	1.78	0.49
1:A:554:ILE:HG22	1:I:462:PHE:HE2	1.78	0.49
1:I:255:HIS:ND1	1:I:652:PRO:HG3	2.28	0.49
1:J:259:GLN:NE2	1:J:273:PHE:HE1	2.11	0.49
1:J:343:PHE:HD1	1:J:344:THR:H	1.61	0.49
1:J:497:ASN:N	1:J:498:SER:HB2	2.28	0.49
1:J:684:TRP:CD1	1:J:684:TRP:N	2.81	0.49
1:K:711:ASP:O	1:K:713:THR:N	2.46	0.49
1:L:245:ARG:CZ	1:L:366:PRO:HA	2.43	0.49
1:L:497:ASN:N	1:L:498:SER:HB2	2.28	0.49
1:M:497:ASN:N	1:M:498:SER:HB2	2.28	0.49
1:M:711:ASP:O	1:M:713:THR:N	2.46	0.49
1:O:259:GLN:NE2	1:O:273:PHE:HE1	2.11	0.49
1:O:288:HIS:HE2	1:O:614:GLN:HB3	1.78	0.49
1:P:245:ARG:CZ	1:P:366:PRO:HA	2.43	0.49
1:R:711:ASP:O	1:R:713:THR:N	2.46	0.49
1:T:684:TRP:CD1	1:T:684:TRP:N	2.81	0.49
1:T:711:ASP:O	1:T:713:THR:N	2.46	0.49
1:U:245:ARG:CZ	1:U:366:PRO:HA	2.43	0.49
1:U:255:HIS:ND1	1:U:652:PRO:HG3	2.28	0.49
1:U:288:HIS:HE2	1:U:614:GLN:HB3	1.78	0.49
1:V:255:HIS:ND1	1:V:652:PRO:HG3	2.28	0.49
1:V:306:PHE:HA	1:V:686:LEU:HA	1.95	0.49
1:W:343:PHE:HD1	1:W:344:THR:H	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:245:ARG:CZ	1:X:366:PRO:HA	2.43	0.49
1:X:497:ASN:N	1:X:498:SER:HB2	2.28	0.49
1:Y:684:TRP:N	1:Y:684:TRP:CD1	2.81	0.49
1:Z:326:ASN:O	1:Z:329:THR:OG1	2.19	0.49
1:Z:684:TRP:CD1	1:Z:684:TRP:N	2.81	0.49
1:Z:711:ASP:O	1:Z:713:THR:N	2.46	0.49
1:1:438:ILE:HG22	1:1:439:ASP:H	1.77	0.48
1:1:497:ASN:N	1:1:498:SER:HB2	2.28	0.48
1:1:541:ILE:HG22	1:1:542:PHE:O	2.12	0.48
1:1:545:GLN:OE1	1:1:545:GLN:N	2.34	0.48
1:1:684:TRP:N	1:1:684:TRP:CD1	2.81	0.48
1:2:711:ASP:O	1:2:713:THR:N	2.46	0.48
1:3:497:ASN:N	1:3:498:SER:HB2	2.28	0.48
1:3:527:LYS:HG2	1:3:528:ASP:OD1	2.13	0.48
1:7:247:TRP:NE1	1:7:677:GLN:O	2.34	0.48
1:8:259:GLN:NE2	1:8:273:PHE:HE1	2.11	0.48
1:8:452:SER:OG	1:8:456:THR:O	2.27	0.48
1:8:557:VAL:O	1:8:558:MET:HB2	2.13	0.48
1:8:711:ASP:O	1:8:713:THR:N	2.46	0.48
1:A:431:ASP:OD1	1:A:432:ALA:N	2.45	0.48
1:A:711:ASP:O	1:A:713:THR:N	2.46	0.48
1:B:256:LEU:O	1:B:256:LEU:HD12	2.12	0.48
1:B:443:TYR:OH	1:J:547:SER:OG	2.29	0.48
1:B:255:HIS:ND1	1:B:652:PRO:HG3	2.28	0.48
1:C:245:ARG:CZ	1:C:366:PRO:HA	2.43	0.48
1:C:381:ASN:OD1	1:C:382:ASN:N	2.46	0.48
1:F:684:TRP:CD1	1:F:684:TRP:N	2.81	0.48
1:G:255:HIS:ND1	1:G:652:PRO:HG3	2.28	0.48
1:H:557:VAL:O	1:H:558:MET:HB2	2.13	0.48
1:I:431:ASP:OD1	1:I:432:ALA:N	2.45	0.48
1:J:245:ARG:CZ	1:J:366:PRO:HA	2.43	0.48
1:J:711:ASP:O	1:J:713:THR:N	2.46	0.48
1:K:262:SER:N	1:K:272:TYR:O	2.46	0.48
1:L:343:PHE:HD1	1:L:344:THR:H	1.61	0.48
1:L:381:ASN:OD1	1:L:382:ASN:N	2.46	0.48
1:L:431:ASP:OD1	1:L:432:ALA:N	2.45	0.48
1:L:308:PRO:HD3	1:L:637:PHE:HE2	1.77	0.48
1:L:255:HIS:ND1	1:L:652:PRO:HG3	2.28	0.48
1:N:288:HIS:HE2	1:N:614:GLN:HB3	1.78	0.48
1:O:255:HIS:ND1	1:O:652:PRO:HG3	2.28	0.48
1:O:497:ASN:N	1:O:498:SER:HB2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:711:ASP:O	1:O:713:THR:N	2.46	0.48
1:P:259:GLN:NE2	1:P:273:PHE:HE1	2.11	0.48
1:P:288:HIS:HE2	1:P:614:GLN:HB3	1.78	0.48
1:P:711:ASP:O	1:P:713:THR:N	2.46	0.48
1:Q:711:ASP:O	1:Q:713:THR:N	2.46	0.48
1:S:288:HIS:HE2	1:S:614:GLN:HB3	1.78	0.48
1:S:684:TRP:N	1:S:684:TRP:CD1	2.81	0.48
1:T:259:GLN:NE2	1:T:273:PHE:HE1	2.11	0.48
1:T:343:PHE:HD1	1:T:344:THR:H	1.61	0.48
1:T:553:ASP:OD1	1:T:554:ILE:N	2.45	0.48
1:U:684:TRP:CD1	1:U:684:TRP:N	2.81	0.48
1:U:711:ASP:O	1:U:713:THR:N	2.46	0.48
1:V:259:GLN:NE2	1:V:273:PHE:HE1	2.11	0.48
1:V:527:LYS:HG2	1:V:528:ASP:OD1	2.13	0.48
1:V:598:GLN:HG3	1:V:599:GLY:O	2.13	0.48
1:V:711:ASP:O	1:V:713:THR:N	2.46	0.48
1:W:497:ASN:N	1:W:498:SER:HB2	2.28	0.48
1:W:541:ILE:HG22	1:W:542:PHE:O	2.12	0.48
1:W:582:ASN:OD1	1:W:591:ALA:N	2.35	0.48
1:Y:262:SER:N	1:Y:272:TYR:O	2.46	0.48
1:Y:259:GLN:NE2	1:Y:273:PHE:HE1	2.11	0.48
1:Y:527:LYS:HG2	1:Y:528:ASP:OD1	2.13	0.48
1:Y:711:ASP:O	1:Y:713:THR:N	2.46	0.48
1:Z:343:PHE:HD1	1:Z:344:THR:H	1.61	0.48
1:1:259:GLN:NE2	1:1:273:PHE:HE1	2.11	0.48
1:2:262:SER:N	1:2:272:TYR:O	2.46	0.48
1:2:527:LYS:HG2	1:2:528:ASP:OD1	2.13	0.48
1:2:684:TRP:N	1:2:684:TRP:CD1	2.81	0.48
1:3:308:PRO:HD3	1:3:637:PHE:HE2	1.77	0.48
1:3:288:HIS:HE2	1:3:614:GLN:HB3	1.78	0.48
1:6:347:GLU:N	1:6:347:GLU:OE1	2.41	0.48
1:8:262:SER:N	1:8:272:TYR:O	2.46	0.48
1:A:255:HIS:ND1	1:A:652:PRO:HG3	2.28	0.48
1:A:684:TRP:N	1:A:684:TRP:CD1	2.81	0.48
1:B:259:GLN:NE2	1:B:273:PHE:HE1	2.11	0.48
1:D:347:GLU:OE1	1:D:347:GLU:N	2.41	0.48
1:F:255:HIS:ND1	1:F:652:PRO:HG3	2.28	0.48
1:G:381:ASN:OD1	1:G:382:ASN:N	2.47	0.48
1:H:381:ASN:OD1	1:H:382:ASN:N	2.47	0.48
1:I:684:TRP:CD1	1:I:684:TRP:N	2.81	0.48
1:L:326:ASN:O	1:L:329:THR:OG1	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:259:GLN:NE2	1:M:273:PHE:HE1	2.11	0.48
1:M:684:TRP:CD1	1:M:684:TRP:N	2.81	0.48
1:N:255:HIS:ND1	1:N:652:PRO:HG3	2.28	0.48
1:O:431:ASP:OD1	1:O:432:ALA:N	2.45	0.48
1:O:557:VAL:HG23	1:O:559:ILE:HG13	1.96	0.48
1:O:658:SER:O	1:O:659:THR:OG1	2.27	0.48
1:P:262:SER:N	1:P:272:TYR:O	2.46	0.48
1:Q:625:ASP:OD1	1:S:607:GLN:NE2	87.94	0.48
1:R:557:VAL:HG23	1:R:559:ILE:HG13	1.96	0.48
1:S:497:ASN:N	1:S:498:SER:HB2	2.28	0.48
1:S:553:ASP:OD1	1:S:554:ILE:N	2.45	0.48
1:S:557:VAL:O	1:S:558:MET:HB2	2.13	0.48
1:T:245:ARG:CZ	1:T:366:PRO:HA	2.43	0.48
1:T:557:VAL:HG23	1:T:559:ILE:HG13	1.96	0.48
1:V:245:ARG:CZ	1:V:366:PRO:HA	2.43	0.48
1:V:684:TRP:CD1	1:V:684:TRP:N	2.81	0.48
1:W:711:ASP:O	1:W:713:THR:N	2.46	0.48
1:Y:255:HIS:ND1	1:Y:652:PRO:HG3	2.28	0.48
1:Z:308:PRO:HD3	1:Z:637:PHE:HE2	1.77	0.48
1:1:247:TRP:NE1	1:1:677:GLN:O	2.34	0.48
1:2:431:ASP:OD1	1:2:432:ALA:N	2.45	0.48
1:2:557:VAL:O	1:2:558:MET:HB2	2.13	0.48
1:3:684:TRP:CD1	1:3:684:TRP:N	2.81	0.48
1:3:306:PHE:HA	1:3:686:LEU:HA	1.95	0.48
1:3:711:ASP:O	1:3:713:THR:N	2.46	0.48
1:4:391:SER:OG	1:4:392:PHE:N	2.44	0.48
1:5:416:GLU:OE1	1:5:416:GLU:N	2.28	0.48
1:5:598:GLN:HG3	1:5:599:GLY:O	2.13	0.48
1:5:255:HIS:ND1	1:5:652:PRO:HG3	2.28	0.48
1:7:711:ASP:O	1:7:713:THR:N	2.46	0.48
1:8:347:GLU:OE1	1:8:347:GLU:N	2.41	0.48
1:8:497:ASN:N	1:8:498:SER:HB2	2.28	0.48
1:8:598:GLN:HG3	1:8:599:GLY:O	2.13	0.48
1:A:557:VAL:HG23	1:A:559:ILE:HG13	1.96	0.48
1:B:288:HIS:HE2	1:B:614:GLN:HB3	1.78	0.48
1:C:497:ASN:N	1:C:498:SER:HB2	2.28	0.48
1:D:684:TRP:CD1	1:D:684:TRP:N	2.81	0.48
1:E:245:ARG:CZ	1:E:366:PRO:HA	2.43	0.48
1:E:711:ASP:O	1:E:713:THR:N	2.46	0.48
1:F:347:GLU:OE1	1:F:347:GLU:N	2.41	0.48
1:G:684:TRP:CD1	1:G:684:TRP:N	2.81	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:268:ASN:HA	1:H:271:HIS:CD2	2.49	0.48
1:H:259:GLN:NE2	1:H:273:PHE:HE1	2.11	0.48
1:H:527:LYS:HG2	1:H:528:ASP:OD1	2.13	0.48
1:I:306:PHE:HA	1:I:686:LEU:HA	1.95	0.48
1:J:262:SER:N	1:J:272:TYR:O	2.46	0.48
1:J:306:PHE:HA	1:J:686:LEU:HA	1.95	0.48
1:J:553:ASP:OD1	1:J:554:ILE:N	2.46	0.48
1:J:255:HIS:ND1	1:J:652:PRO:HG3	2.28	0.48
1:K:268:ASN:HA	1:K:271:HIS:CD2	2.49	0.48
1:K:259:GLN:NE2	1:K:273:PHE:HE1	2.11	0.48
1:L:259:GLN:NE2	1:L:273:PHE:HE1	2.11	0.48
1:M:262:SER:N	1:M:272:TYR:O	2.46	0.48
1:M:527:LYS:HG2	1:M:528:ASP:OD1	2.13	0.48
1:M:306:PHE:HA	1:M:686:LEU:HA	1.95	0.48
1:N:684:TRP:CD1	1:N:684:TRP:N	2.81	0.48
1:O:343:PHE:HD1	1:O:344:THR:H	1.61	0.48
1:O:527:LYS:HG2	1:O:528:ASP:OD1	2.13	0.48
1:P:381:ASN:OD1	1:P:382:ASN:N	2.47	0.48
1:Q:255:HIS:ND1	1:Q:652:PRO:HG3	2.28	0.48
1:R:245:ARG:CZ	1:R:366:PRO:HA	2.43	0.48
1:R:607:GLN:NE2	1:S:625:ASP:OD1	2.48	0.48
1:R:288:HIS:HE2	1:R:614:GLN:HB3	1.78	0.48
1:R:255:HIS:ND1	1:R:652:PRO:HG3	2.28	0.48
1:S:259:GLN:NE2	1:S:273:PHE:HE1	2.11	0.48
1:T:497:ASN:N	1:T:498:SER:HB2	2.28	0.48
1:T:557:VAL:O	1:T:558:MET:HB2	2.13	0.48
1:U:581:THR:N	1:U:591:ALA:O	2.37	0.48
1:W:306:PHE:HA	1:W:686:LEU:HA	1.95	0.48
1:W:245:ARG:CZ	1:W:366:PRO:HA	2.43	0.48
1:X:259:GLN:NE2	1:X:273:PHE:HE1	2.11	0.48
1:X:452:SER:OG	1:X:456:THR:O	2.27	0.48
1:X:711:ASP:O	1:X:713:THR:N	2.46	0.48
1:Z:259:GLN:NE2	1:Z:273:PHE:HE1	2.11	0.48
1:Z:262:SER:N	1:Z:272:TYR:O	2.46	0.48
1:Z:527:LYS:HG2	1:Z:528:ASP:OD1	2.13	0.48
1:2:255:HIS:ND1	1:2:652:PRO:HG3	2.28	0.48
1:3:557:VAL:O	1:3:558:MET:HB2	2.13	0.48
1:3:557:VAL:HG23	1:3:559:ILE:HG13	1.96	0.48
1:3:598:GLN:HG3	1:3:599:GLY:O	2.13	0.48
1:5:431:ASP:OD1	1:5:432:ALA:N	2.45	0.48
1:6:245:ARG:CZ	1:6:366:PRO:HA	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:581:THR:N	1:6:591:ALA:O	2.37	0.48
1:8:308:PRO:HD3	1:8:637:PHE:HE2	1.77	0.48
1:A:343:PHE:HD1	1:A:344:THR:H	1.61	0.48
1:C:268:ASN:HA	1:C:271:HIS:CD2	2.49	0.48
1:D:259:GLN:NE2	1:D:273:PHE:HE1	2.11	0.48
1:E:268:ASN:HA	1:E:271:HIS:CD2	2.49	0.48
1:E:381:ASN:OD1	1:E:382:ASN:N	2.47	0.48
1:F:343:PHE:HD1	1:F:344:THR:H	1.61	0.48
1:G:262:SER:N	1:G:272:TYR:O	2.46	0.48
1:G:268:ASN:HA	1:G:271:HIS:CD2	2.49	0.48
1:G:343:PHE:HD1	1:G:344:THR:H	1.61	0.48
1:H:598:GLN:HG3	1:H:599:GLY:O	2.13	0.48
1:H:288:HIS:HE2	1:H:614:GLN:HB3	1.78	0.48
1:H:308:PRO:HD3	1:H:637:PHE:HE2	1.77	0.48
1:I:268:ASN:HA	1:I:271:HIS:CD2	2.49	0.48
1:I:245:ARG:CZ	1:I:366:PRO:HA	2.43	0.48
1:J:268:ASN:HA	1:J:271:HIS:CD2	2.49	0.48
1:J:308:PRO:HD3	1:J:637:PHE:HE2	1.77	0.48
1:K:343:PHE:HD1	1:K:344:THR:H	1.61	0.48
1:K:557:VAL:O	1:K:558:MET:HB2	2.13	0.48
1:L:262:SER:N	1:L:272:TYR:O	2.46	0.48
1:M:308:PRO:HD3	1:M:637:PHE:HE2	1.77	0.48
1:M:245:ARG:CZ	1:M:366:PRO:HA	2.43	0.48
1:M:381:ASN:OD1	1:M:382:ASN:N	2.47	0.48
1:M:452:SER:OG	1:M:456:THR:O	2.27	0.48
1:O:347:GLU:N	1:O:347:GLU:OE1	2.41	0.48
1:O:474:SER:N	1:P:518:ASN:HD22	78.43	0.48
1:O:684:TRP:CD1	1:O:684:TRP:N	2.81	0.48
1:P:343:PHE:HD1	1:P:344:THR:H	1.61	0.48
1:P:452:SER:OG	1:P:456:THR:O	2.27	0.48
1:P:255:HIS:ND1	1:P:652:PRO:HG3	2.28	0.48
1:R:268:ASN:HA	1:R:271:HIS:CD2	2.49	0.48
1:S:381:ASN:OD1	1:S:382:ASN:N	2.47	0.48
1:T:268:ASN:HA	1:T:271:HIS:CD2	2.49	0.48
1:T:288:HIS:HE2	1:T:614:GLN:HB3	1.78	0.48
1:U:259:GLN:NE2	1:U:273:PHE:HE1	2.12	0.48
1:V:497:ASN:N	1:V:498:SER:HB2	2.28	0.48
1:V:288:HIS:HE2	1:V:614:GLN:HB3	1.78	0.48
1:W:268:ASN:HA	1:W:271:HIS:CD2	2.49	0.48
1:W:381:ASN:OD1	1:W:382:ASN:N	2.47	0.48
1:X:268:ASN:HA	1:X:271:HIS:CD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:391:SER:OG	1:X:392:PHE:N	2.44	0.48
1:X:557:VAL:HG23	1:X:559:ILE:HG13	1.96	0.48
1:Y:245:ARG:CZ	1:Y:366:PRO:HA	2.43	0.48
1:Y:268:ASN:HA	1:Y:271:HIS:CD2	2.49	0.48
1:Y:497:ASN:N	1:Y:498:SER:HB2	2.28	0.48
1:Z:443:TYR:OH	1:1:547:SER:OG	99.56	0.48
1:2:381:ASN:OD1	1:2:382:ASN:N	2.47	0.48
1:3:268:ASN:HA	1:3:271:HIS:CD2	2.49	0.48
1:3:245:ARG:CZ	1:3:366:PRO:HA	2.43	0.48
1:4:361:CYS:O	1:4:362:LEU:HD12	2.12	0.48
1:4:381:ASN:OD1	1:4:382:ASN:N	2.47	0.48
1:4:527:LYS:HG2	1:4:528:ASP:OD1	2.13	0.48
1:5:381:ASN:OD1	1:5:382:ASN:N	2.47	0.48
1:6:343:PHE:HD1	1:6:344:THR:H	1.61	0.48
1:7:262:SER:N	1:7:272:TYR:O	2.46	0.48
1:8:541:ILE:HG22	1:8:542:PHE:O	2.12	0.48
1:A:268:ASN:HA	1:A:271:HIS:CD2	2.49	0.48
1:A:259:GLN:NE2	1:A:273:PHE:HE1	2.12	0.48
1:A:497:ASN:N	1:A:498:SER:HB2	2.28	0.48
1:B:582:ASN:OD1	1:B:591:ALA:N	2.35	0.48
1:B:711:ASP:O	1:B:713:THR:N	2.46	0.48
1:D:557:VAL:O	1:D:558:MET:HB2	2.13	0.48
1:D:598:GLN:HG3	1:D:599:GLY:O	2.13	0.48
1:D:255:HIS:ND1	1:D:652:PRO:HG3	2.28	0.48
1:E:246:THR:HG23	1:E:369:VAL:HG23	1.96	0.48
1:E:262:SER:N	1:E:272:TYR:O	2.46	0.48
1:F:259:GLN:HB3	1:Z:715:ASP:O	143.62	0.48
1:H:343:PHE:HD1	1:H:344:THR:H	1.61	0.48
1:I:553:ASP:OD1	1:I:554:ILE:N	2.46	0.48
1:K:347:GLU:OE1	1:K:347:GLU:N	2.41	0.48
1:K:598:GLN:HG3	1:K:599:GLY:O	2.13	0.48
1:L:268:ASN:HA	1:L:271:HIS:CD2	2.49	0.48
1:L:288:HIS:HE2	1:L:614:GLN:HB3	1.78	0.48
1:M:268:ASN:HA	1:M:271:HIS:CD2	2.49	0.48
1:N:497:ASN:N	1:N:498:SER:HB2	2.28	0.48
1:P:268:ASN:HA	1:P:271:HIS:CD2	2.49	0.48
1:Q:306:PHE:HA	1:Q:686:LEU:HA	1.95	0.48
1:T:255:HIS:ND1	1:T:652:PRO:HG3	2.29	0.48
1:U:381:ASN:OD1	1:U:382:ASN:N	2.47	0.48
1:V:343:PHE:HD1	1:V:344:THR:H	1.61	0.48
1:V:581:THR:N	1:V:591:ALA:O	2.37	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:262:SER:N	1:W:272:TYR:O	2.46	0.48
1:X:381:ASN:OD1	1:X:382:ASN:N	2.46	0.48
1:Y:288:HIS:HE2	1:Y:614:GLN:HB3	1.78	0.48
1:Z:553:ASP:OD1	1:Z:554:ILE:N	2.45	0.48
1:2:245:ARG:CZ	1:2:366:PRO:HA	2.43	0.48
1:2:246:THR:HG23	1:2:369:VAL:HG23	1.96	0.48
1:2:557:VAL:HG23	1:2:559:ILE:HG13	1.96	0.48
1:3:431:ASP:OD1	1:3:432:ALA:N	2.45	0.48
1:4:259:GLN:NE2	1:4:273:PHE:HE1	2.11	0.48
1:4:557:VAL:HG23	1:4:559:ILE:HG13	1.96	0.48
1:2:701:THR:OG1	1:4:698:ILE:O	2.19	0.48
1:5:557:VAL:O	1:5:558:MET:HB2	2.13	0.48
1:5:288:HIS:HE2	1:5:614:GLN:HB3	1.78	0.48
1:5:711:ASP:O	1:5:713:THR:N	2.46	0.48
1:6:259:GLN:NE2	1:6:273:PHE:HE1	2.11	0.48
1:6:381:ASN:OD1	1:6:382:ASN:N	2.47	0.48
1:6:684:TRP:N	1:6:684:TRP:CD1	2.81	0.48
1:7:343:PHE:HD1	1:7:344:THR:H	1.61	0.48
1:7:684:TRP:CD1	1:7:684:TRP:N	2.81	0.48
1:8:381:ASN:OD1	1:8:382:ASN:N	2.47	0.48
1:8:396:GLU:N	1:8:396:GLU:OE1	2.47	0.48
1:A:518:ASN:HD22	1:I:474:SER:N	2.12	0.48
1:B:381:ASN:OD1	1:B:382:ASN:N	2.47	0.48
1:C:553:ASP:OD1	1:C:554:ILE:N	2.46	0.48
1:D:268:ASN:HA	1:D:271:HIS:CD2	2.49	0.48
1:D:245:ARG:CZ	1:D:366:PRO:HA	2.43	0.48
1:D:381:ASN:OD1	1:D:382:ASN:N	2.47	0.48
1:E:684:TRP:N	1:E:684:TRP:CD1	2.81	0.48
1:F:268:ASN:HA	1:F:271:HIS:CD2	2.49	0.48
1:F:711:ASP:O	1:F:713:THR:N	2.46	0.48
1:G:398:PHE:N	1:G:398:PHE:CD1	2.81	0.48
1:H:396:GLU:N	1:H:396:GLU:OE1	2.47	0.48
1:I:246:THR:HG23	1:I:369:VAL:HG23	1.96	0.48
1:I:347:GLU:N	1:I:347:GLU:OE1	2.41	0.48
1:I:381:ASN:OD1	1:I:382:ASN:N	2.47	0.48
1:J:381:ASN:OD1	1:J:382:ASN:N	2.47	0.48
1:J:557:VAL:HG23	1:J:559:ILE:HG13	1.96	0.48
1:K:308:PRO:HD3	1:K:637:PHE:HE2	1.77	0.48
1:D:474:SER:N	1:L:518:ASN:HD22	136.67	0.48
1:L:553:ASP:OD1	1:L:554:ILE:N	2.46	0.48
1:M:557:VAL:HG23	1:M:559:ILE:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:259:GLN:NE2	1:N:273:PHE:HE1	2.11	0.48
1:N:381:ASN:OD1	1:N:382:ASN:N	2.46	0.48
1:N:557:VAL:HG23	1:N:559:ILE:HG13	1.96	0.48
1:O:245:ARG:CZ	1:O:366:PRO:HA	2.43	0.48
1:O:268:ASN:HA	1:O:271:HIS:CD2	2.49	0.48
1:O:381:ASN:OD1	1:O:382:ASN:N	2.47	0.48
1:Q:245:ARG:CZ	1:Q:366:PRO:HA	2.43	0.48
1:Q:288:HIS:HE2	1:Q:614:GLN:HB3	1.78	0.48
1:Q:381:ASN:OD1	1:Q:382:ASN:N	2.47	0.48
1:R:259:GLN:NE2	1:R:273:PHE:HE1	2.11	0.48
1:V:268:ASN:HA	1:V:271:HIS:CD2	2.49	0.48
1:V:381:ASN:OD1	1:V:382:ASN:N	2.47	0.48
1:W:288:HIS:HE2	1:W:614:GLN:HB3	1.78	0.48
1:W:255:HIS:ND1	1:W:652:PRO:HG3	2.28	0.48
1:Y:343:PHE:HD1	1:Y:344:THR:H	1.61	0.48
1:Z:268:ASN:HA	1:Z:271:HIS:CD2	2.49	0.48
1:Z:245:ARG:CZ	1:Z:366:PRO:HA	2.43	0.48
1:Z:396:GLU:N	1:Z:396:GLU:OE1	2.47	0.48
1:1:306:PHE:HA	1:1:686:LEU:HA	1.95	0.48
1:1:378:LEU:O	1:1:379:THR:OG1	2.26	0.48
1:1:288:HIS:HE2	1:1:614:GLN:HB3	1.78	0.48
1:2:598:GLN:HG3	1:2:599:GLY:O	2.13	0.48
1:6:557:VAL:O	1:6:558:MET:HB2	2.13	0.48
1:6:711:ASP:O	1:6:713:THR:N	2.46	0.48
1:8:553:ASP:OD1	1:8:554:ILE:N	2.46	0.48
1:A:381:ASN:OD1	1:A:382:ASN:N	2.47	0.48
1:A:424:TYR:HA	1:A:731:LEU:O	2.14	0.48
1:B:245:ARG:CZ	1:B:366:PRO:HA	2.43	0.48
1:C:246:THR:HG23	1:C:369:VAL:HG23	1.96	0.48
1:D:246:THR:HG23	1:D:369:VAL:HG23	1.96	0.48
1:D:462:PHE:HE2	1:L:554:ILE:HG22	149.80	0.48
1:D:497:ASN:N	1:D:498:SER:HB2	2.28	0.48
1:D:557:VAL:HG23	1:D:559:ILE:HG13	1.96	0.48
1:E:259:GLN:NE2	1:E:273:PHE:HE1	2.11	0.48
1:F:306:PHE:HA	1:F:686:LEU:HA	1.95	0.48
1:F:381:ASN:OD1	1:F:382:ASN:N	2.47	0.48
1:F:396:GLU:N	1:F:396:GLU:OE1	2.47	0.48
1:F:497:ASN:N	1:F:498:SER:HB2	2.28	0.48
1:G:245:ARG:CZ	1:G:366:PRO:HA	2.43	0.48
1:G:246:THR:HG23	1:G:369:VAL:HG23	1.96	0.48
1:G:288:HIS:HE2	1:G:614:GLN:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:553:ASP:OD1	1:G:554:ILE:N	2.45	0.48
1:H:557:VAL:HG23	1:H:559:ILE:HG13	1.96	0.48
1:I:343:PHE:HD1	1:I:344:THR:H	1.61	0.48
1:I:711:ASP:O	1:I:713:THR:N	2.46	0.48
1:K:255:HIS:ND1	1:K:652:PRO:HG3	2.28	0.48
1:K:381:ASN:OD1	1:K:382:ASN:N	2.47	0.48
1:K:396:GLU:OE1	1:K:396:GLU:N	2.47	0.48
1:K:557:VAL:HG23	1:K:559:ILE:HG13	1.96	0.48
1:L:658:SER:O	1:L:659:THR:OG1	2.27	0.48
1:M:246:THR:HG23	1:M:369:VAL:HG23	1.96	0.48
1:M:396:GLU:OE1	1:M:396:GLU:N	2.47	0.48
1:P:398:PHE:CD1	1:P:398:PHE:N	2.81	0.48
1:Q:343:PHE:HD1	1:Q:344:THR:H	1.61	0.48
1:S:347:GLU:N	1:S:347:GLU:OE1	2.41	0.48
1:S:711:ASP:O	1:S:713:THR:N	2.46	0.48
1:T:306:PHE:HA	1:T:686:LEU:HA	1.95	0.48
1:U:396:GLU:N	1:U:396:GLU:OE1	2.47	0.48
1:U:497:ASN:N	1:U:498:SER:HB2	2.28	0.48
1:V:262:SER:N	1:V:272:TYR:O	2.46	0.48
1:V:429:SER:OG	1:V:431:ASP:OD1	2.18	0.48
1:W:246:THR:HG23	1:W:369:VAL:HG23	1.96	0.48
1:W:684:TRP:N	1:W:684:TRP:CD1	2.81	0.48
1:Z:518:ASN:HD22	1:2:474:SER:N	96.77	0.48
1:Z:557:VAL:HG23	1:Z:559:ILE:HG13	1.96	0.48
1:1:268:ASN:HA	1:1:271:HIS:CD2	2.49	0.48
1:2:288:HIS:HE2	1:2:614:GLN:HB3	1.78	0.48
1:2:497:ASN:N	1:2:498:SER:HB2	2.28	0.48
1:3:396:GLU:OE1	1:3:396:GLU:N	2.47	0.48
1:7:268:ASN:HA	1:7:271:HIS:CD2	2.49	0.48
1:7:381:ASN:OD1	1:7:382:ASN:N	2.47	0.48
1:8:306:PHE:HA	1:8:686:LEU:HA	1.95	0.48
1:8:398:PHE:N	1:8:398:PHE:CD1	2.81	0.48
1:A:347:GLU:OE1	1:A:347:GLU:N	2.41	0.48
1:A:443:TYR:OH	1:G:547:SER:OG	2.30	0.48
1:C:259:GLN:NE2	1:C:273:PHE:HE1	2.11	0.48
1:C:262:SER:N	1:C:272:TYR:O	2.46	0.48
1:D:288:HIS:HE2	1:D:614:GLN:HB3	1.78	0.48
1:E:306:PHE:HA	1:E:686:LEU:HA	1.95	0.48
1:F:246:THR:HG23	1:F:369:VAL:HG23	1.96	0.48
1:F:288:HIS:HE2	1:F:614:GLN:HB3	1.78	0.48
1:G:557:VAL:HG23	1:G:559:ILE:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:262:SER:N	1:H:272:TYR:O	2.46	0.48
1:H:711:ASP:O	1:H:713:THR:N	2.46	0.48
1:H:424:TYR:HA	1:H:731:LEU:O	2.14	0.48
1:I:262:SER:N	1:I:272:TYR:O	2.46	0.48
1:I:497:ASN:N	1:I:498:SER:HB2	2.28	0.48
1:J:288:HIS:HE2	1:J:614:GLN:HB3	1.78	0.48
1:K:527:LYS:HG2	1:K:528:ASP:OD1	2.13	0.48
1:L:557:VAL:HG23	1:L:559:ILE:HG13	1.96	0.48
1:N:343:PHE:HD1	1:N:344:THR:H	1.61	0.48
1:P:246:THR:HG23	1:P:369:VAL:HG23	1.96	0.48
1:P:396:GLU:N	1:P:396:GLU:OE1	2.47	0.48
1:P:553:ASP:OD1	1:P:554:ILE:N	2.45	0.48
1:Q:259:GLN:NE2	1:Q:273:PHE:HE1	2.11	0.48
1:R:381:ASN:OD1	1:R:382:ASN:N	2.46	0.48
1:S:424:TYR:HA	1:S:731:LEU:O	2.14	0.48
1:T:378:LEU:O	1:T:379:THR:OG1	2.26	0.48
1:T:381:ASN:OD1	1:T:382:ASN:N	2.47	0.48
1:U:246:THR:HG23	1:U:369:VAL:HG23	1.96	0.48
1:V:396:GLU:N	1:V:396:GLU:OE1	2.47	0.48
1:W:259:GLN:NE2	1:W:273:PHE:HE1	2.11	0.48
1:W:396:GLU:N	1:W:396:GLU:OE1	2.47	0.48
1:X:607:GLN:NE2	1:Y:625:ASP:OD1	48.21	0.48
1:Y:381:ASN:OD1	1:Y:382:ASN:N	2.47	0.48
1:Y:396:GLU:N	1:Y:396:GLU:OE1	2.47	0.48
1:Z:306:PHE:HA	1:Z:686:LEU:HA	1.95	0.48
1:Z:381:ASN:OD1	1:Z:382:ASN:N	2.46	0.48
1:5:259:GLN:NE2	1:5:273:PHE:HE1	2.11	0.48
1:5:343:PHE:HD1	1:5:344:THR:H	1.61	0.48
1:6:246:THR:HG23	1:6:369:VAL:HG23	1.96	0.48
1:6:396:GLU:OE1	1:6:396:GLU:N	2.47	0.48
1:6:598:GLN:HG3	1:6:599:GLY:O	2.13	0.48
1:6:306:PHE:HA	1:6:686:LEU:HA	1.95	0.48
1:7:424:TYR:HA	1:7:731:LEU:O	2.14	0.48
1:7:288:HIS:HE2	1:7:614:GLN:HB3	1.78	0.48
1:8:268:ASN:HA	1:8:271:HIS:CD2	2.49	0.48
1:8:255:HIS:ND1	1:8:652:PRO:HG3	2.28	0.48
1:E:396:GLU:N	1:E:396:GLU:OE1	2.47	0.48
1:E:424:TYR:HA	1:E:731:LEU:O	2.14	0.48
1:E:255:HIS:ND1	1:E:652:PRO:HG3	2.28	0.48
1:F:625:ASP:OD1	1:G:607:GLN:NE2	87.94	0.48
1:G:424:TYR:HA	1:G:731:LEU:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:557:VAL:HG23	1:I:559:ILE:HG13	1.96	0.48
1:J:246:THR:HG23	1:J:369:VAL:HG23	1.96	0.48
1:J:396:GLU:OE1	1:J:396:GLU:N	2.47	0.48
1:J:444:TYR:HD1	1:J:445:LEU:H	1.62	0.48
1:B:474:SER:N	1:J:518:ASN:HD22	2.12	0.48
1:M:255:HIS:ND1	1:M:652:PRO:HG3	2.28	0.48
1:O:396:GLU:N	1:O:396:GLU:OE1	2.47	0.48
1:P:424:TYR:HA	1:P:731:LEU:O	2.14	0.48
1:Q:424:TYR:HA	1:Q:731:LEU:O	2.14	0.48
1:R:396:GLU:N	1:R:396:GLU:OE1	2.47	0.48
1:S:582:ASN:OD1	1:S:591:ALA:N	2.35	0.48
1:U:244:THR:O	1:U:245:ARG:NH1	2.40	0.48
1:V:444:TYR:HD1	1:V:445:LEU:H	1.62	0.48
1:W:452:SER:OG	1:W:456:THR:O	2.27	0.48
1:X:343:PHE:HD1	1:X:344:THR:H	1.61	0.48
1:X:396:GLU:OE1	1:X:396:GLU:N	2.47	0.48
1:Y:444:TYR:HD1	1:Y:445:LEU:H	1.62	0.48
1:Z:246:THR:HG23	1:Z:369:VAL:HG23	1.96	0.48
1:1:245:ARG:CZ	1:1:366:PRO:HA	2.43	0.48
1:1:557:VAL:O	1:1:558:MET:HB2	2.13	0.48
1:1:255:HIS:ND1	1:1:652:PRO:HG3	2.29	0.48
1:2:306:PHE:HA	1:2:686:LEU:HA	1.95	0.48
1:4:245:ARG:CZ	1:4:366:PRO:HA	2.43	0.48
1:4:396:GLU:N	1:4:396:GLU:OE1	2.47	0.48
1:5:557:VAL:HG23	1:5:559:ILE:HG13	1.96	0.48
1:7:245:ARG:CZ	1:7:366:PRO:HA	2.43	0.48
1:7:306:PHE:HA	1:7:686:LEU:HA	1.95	0.48
1:A:288:HIS:HE2	1:A:614:GLN:HB3	1.78	0.48
1:C:378:LEU:O	1:C:379:THR:OG1	2.26	0.48
1:D:306:PHE:HA	1:D:686:LEU:HA	1.95	0.48
1:G:711:ASP:O	1:G:713:THR:N	2.46	0.48
1:H:444:TYR:HD1	1:H:445:LEU:H	1.62	0.48
1:I:607:GLN:NE2	1:J:625:ASP:OD1	48.20	0.48
1:L:246:THR:HG23	1:L:369:VAL:HG23	1.96	0.48
1:M:444:TYR:HD1	1:M:445:LEU:H	1.62	0.48
1:N:396:GLU:N	1:N:396:GLU:OE1	2.47	0.48
1:O:424:TYR:HA	1:O:731:LEU:O	2.14	0.48
1:Q:557:VAL:HG23	1:Q:559:ILE:HG13	1.96	0.48
1:Q:554:ILE:HG22	1:S:462:PHE:HE2	95.87	0.48
1:V:246:THR:HG23	1:V:369:VAL:HG23	1.96	0.48
1:V:557:VAL:HG23	1:V:559:ILE:HG13	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:424:TYR:HA	1:W:731:LEU:O	2.14	0.48
1:X:262:SER:N	1:X:272:TYR:O	2.46	0.48
1:Z:255:HIS:ND1	1:Z:652:PRO:HG3	2.29	0.48
1:2:268:ASN:HA	1:2:271:HIS:CD2	2.49	0.47
1:5:396:GLU:OE1	1:5:396:GLU:N	2.47	0.47
1:6:444:TYR:HD1	1:6:445:LEU:H	1.62	0.47
1:6:497:ASN:N	1:6:498:SER:HB2	2.28	0.47
1:6:526:HIS:CE1	1:6:531:GLU:HG3	2.49	0.47
1:6:424:TYR:HA	1:6:731:LEU:O	2.14	0.47
1:7:396:GLU:N	1:7:396:GLU:OE1	2.47	0.47
1:A:625:ASP:OD1	1:K:607:GLN:NE2	100.79	0.47
1:B:474:SER:N	1:M:518:ASN:HD22	125.77	0.47
1:D:607:GLN:NE2	1:N:625:ASP:OD1	2.47	0.47
1:E:288:HIS:HE2	1:E:614:GLN:HB3	1.78	0.47
1:F:625:ASP:OD1	1:Q:607:GLN:NE2	2.47	0.47
1:F:424:TYR:HA	1:F:731:LEU:O	2.14	0.47
1:G:444:TYR:HD1	1:G:445:LEU:H	1.62	0.47
1:H:246:THR:HG23	1:H:369:VAL:HG23	1.96	0.47
1:H:347:GLU:N	1:H:347:GLU:OE1	2.41	0.47
1:H:625:ASP:OD1	1:Y:607:GLN:NE2	2.47	0.47
1:H:255:HIS:ND1	1:H:652:PRO:HG3	2.28	0.47
1:I:424:TYR:HA	1:I:731:LEU:O	2.14	0.47
1:I:444:TYR:HD1	1:I:445:LEU:H	1.62	0.47
1:J:378:LEU:O	1:J:379:THR:OG1	2.26	0.47
1:K:246:THR:HG23	1:K:369:VAL:HG23	1.96	0.47
1:K:444:TYR:HD1	1:K:445:LEU:H	1.62	0.47
1:L:378:LEU:O	1:L:379:THR:OG1	2.26	0.47
1:L:396:GLU:N	1:L:396:GLU:OE1	2.47	0.47
1:N:246:THR:HG23	1:N:369:VAL:HG23	1.96	0.47
1:N:424:TYR:HA	1:N:731:LEU:O	2.14	0.47
1:N:526:HIS:CE1	1:N:531:GLU:HG3	2.49	0.47
1:C:474:SER:N	1:O:518:ASN:HD22	151.71	0.47
1:Q:396:GLU:OE1	1:Q:396:GLU:N	2.47	0.47
1:R:424:TYR:HA	1:R:731:LEU:O	2.14	0.47
1:S:396:GLU:OE1	1:S:396:GLU:N	2.47	0.47
1:S:429:SER:OG	1:S:431:ASP:OD1	2.18	0.47
1:S:581:THR:N	1:S:591:ALA:O	2.37	0.47
1:S:255:HIS:ND1	1:S:652:PRO:HG3	2.28	0.47
1:U:268:ASN:HA	1:U:271:HIS:CD2	2.49	0.47
1:U:557:VAL:HG23	1:U:559:ILE:HG13	1.96	0.47
1:Y:557:VAL:HG23	1:Y:559:ILE:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:381:ASN:OD1	1:1:382:ASN:N	2.47	0.47
1:2:526:HIS:CE1	1:2:531:GLU:HG3	2.50	0.47
1:3:343:PHE:HD1	1:3:344:THR:H	1.61	0.47
1:3:424:TYR:HA	1:3:731:LEU:O	2.14	0.47
1:3:526:HIS:CE1	1:3:531:GLU:HG3	2.49	0.47
1:4:343:PHE:HD1	1:4:344:THR:H	1.61	0.47
1:4:255:HIS:ND1	1:4:652:PRO:HG3	2.28	0.47
1:5:607:GLN:NE2	1:6:625:ASP:OD1	2.48	0.47
1:K:625:ASP:OD1	1:8:607:GLN:NE2	2.47	0.47
1:8:684:TRP:CD1	1:8:684:TRP:N	2.81	0.47
1:A:246:THR:HG23	1:A:369:VAL:HG23	1.96	0.47
1:B:343:PHE:HD1	1:B:344:THR:H	1.61	0.47
1:C:396:GLU:N	1:C:396:GLU:OE1	2.47	0.47
1:C:444:TYR:HD1	1:C:445:LEU:H	1.62	0.47
1:C:557:VAL:HG23	1:C:559:ILE:HG13	1.96	0.47
1:C:424:TYR:HA	1:C:731:LEU:O	2.14	0.47
1:D:396:GLU:OE1	1:D:396:GLU:N	2.47	0.47
1:D:625:ASP:OD1	1:T:607:GLN:NE2	115.11	0.47
1:D:424:TYR:HA	1:D:731:LEU:O	2.14	0.47
1:F:444:TYR:HD1	1:F:445:LEU:H	1.62	0.47
1:F:526:HIS:CE1	1:F:531:GLU:HG3	2.50	0.47
1:G:462:PHE:HE2	1:I:554:ILE:HG22	1.80	0.47
1:F:518:ASN:HD22	1:G:474:SER:N	93.63	0.47
1:I:526:HIS:CE1	1:I:531:GLU:HG3	2.50	0.47
1:J:347:GLU:OE1	1:J:347:GLU:N	2.41	0.47
1:K:288:HIS:HE2	1:K:614:GLN:HB3	1.78	0.47
1:K:424:TYR:HA	1:K:731:LEU:O	2.14	0.47
1:L:424:TYR:HA	1:L:731:LEU:O	2.14	0.47
1:L:444:TYR:HD1	1:L:445:LEU:H	1.62	0.47
1:M:288:HIS:HE2	1:M:614:GLN:HB3	1.78	0.47
1:O:444:TYR:HD1	1:O:445:LEU:H	1.62	0.47
1:Q:268:ASN:HA	1:Q:271:HIS:CD2	2.49	0.47
1:R:343:PHE:HD1	1:R:344:THR:H	1.61	0.47
1:R:526:HIS:CE1	1:R:531:GLU:HG3	2.50	0.47
1:S:244:THR:O	1:S:245:ARG:NH1	2.40	0.47
1:S:268:ASN:HA	1:S:271:HIS:CD2	2.49	0.47
1:S:474:SER:N	1:U:518:ASN:HD22	2.12	0.47
1:T:396:GLU:OE1	1:T:396:GLU:N	2.47	0.47
1:U:424:TYR:HA	1:U:731:LEU:O	2.14	0.47
1:V:424:TYR:HA	1:V:731:LEU:O	2.14	0.47
1:U:474:SER:N	1:V:518:ASN:HD22	59.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:625:ASP:OD1	1:X:607:GLN:NE2	2.48	0.47
1:V:698:ILE:O	1:Y:701:THR:OG1	128.41	0.47
1:X:424:TYR:HA	1:X:731:LEU:O	2.14	0.47
1:Y:526:HIS:CE1	1:Y:531:GLU:HG3	2.50	0.47
1:Y:424:TYR:HA	1:Y:731:LEU:O	2.14	0.47
1:Z:288:HIS:HE2	1:Z:614:GLN:HB3	1.78	0.47
1:1:474:SER:N	1:2:518:ASN:HD22	2.12	0.47
1:1:557:VAL:HG23	1:1:559:ILE:HG13	1.96	0.47
1:3:658:SER:O	1:3:659:THR:OG1	2.27	0.47
1:4:268:ASN:HA	1:4:271:HIS:CD2	2.49	0.47
1:4:497:ASN:N	1:4:498:SER:HB2	2.28	0.47
1:5:245:ARG:CZ	1:5:366:PRO:HA	2.43	0.47
1:5:452:SER:HA	1:5:457:GLN:HG3	1.97	0.47
1:6:607:GLN:NE2	1:7:625:ASP:OD1	2.48	0.47
1:7:557:VAL:HG23	1:7:559:ILE:HG13	1.96	0.47
1:8:343:PHE:HD1	1:8:344:THR:H	1.61	0.47
1:8:557:VAL:HG23	1:8:559:ILE:HG13	1.96	0.47
1:A:396:GLU:OE1	1:A:396:GLU:N	2.47	0.47
1:A:526:HIS:CE1	1:A:531:GLU:HG3	2.50	0.47
1:B:424:TYR:HA	1:B:731:LEU:O	2.14	0.47
1:D:526:HIS:CE1	1:D:531:GLU:HG3	2.50	0.47
1:E:452:SER:HA	1:E:457:GLN:HG3	1.97	0.47
1:E:526:HIS:CE1	1:E:531:GLU:HG3	2.50	0.47
1:G:658:SER:O	1:G:659:THR:OG1	2.27	0.47
1:I:259:GLN:NE2	1:I:273:PHE:HE1	2.11	0.47
1:J:424:TYR:HA	1:J:731:LEU:O	2.14	0.47
1:K:452:SER:HA	1:K:457:GLN:HG3	1.97	0.47
1:K:684:TRP:N	1:K:684:TRP:CD1	2.81	0.47
1:M:526:HIS:CE1	1:M:531:GLU:HG3	2.50	0.47
1:O:526:HIS:CE1	1:O:531:GLU:HG3	2.50	0.47
1:P:557:VAL:HG23	1:P:559:ILE:HG13	1.95	0.47
1:D:625:ASP:OD1	1:P:607:GLN:NE2	2.47	0.47
1:P:684:TRP:CD1	1:P:684:TRP:N	2.81	0.47
1:Q:526:HIS:CE1	1:Q:531:GLU:HG3	2.50	0.47
1:R:398:PHE:N	1:R:398:PHE:CD1	2.81	0.47
1:R:452:SER:HA	1:R:457:GLN:HG3	1.97	0.47
1:T:398:PHE:N	1:T:398:PHE:CD1	2.81	0.47
1:D:518:ASN:HD22	1:T:474:SER:N	132.87	0.47
1:W:452:SER:HA	1:W:457:GLN:HG3	1.97	0.47
1:W:526:HIS:CE1	1:W:531:GLU:HG3	2.50	0.47
1:Y:452:SER:HA	1:Y:457:GLN:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:554:ILE:HG22	1:2:462:PHE:HE2	115.43	0.47
1:1:431:ASP:OD1	1:1:432:ALA:N	2.45	0.47
1:2:396:GLU:N	1:2:396:GLU:OE1	2.47	0.47
1:3:255:HIS:ND1	1:3:652:PRO:HG3	2.28	0.47
1:5:306:PHE:HA	1:5:686:LEU:HA	1.95	0.47
1:5:684:TRP:CD1	1:5:684:TRP:N	2.81	0.47
1:6:288:HIS:HE2	1:6:614:GLN:HB3	1.78	0.47
1:7:246:THR:HG23	1:7:369:VAL:HG23	1.96	0.47
1:5:625:ASP:OD1	1:7:607:GLN:NE2	2.48	0.47
1:7:255:HIS:ND1	1:7:652:PRO:HG3	2.28	0.47
1:A:444:TYR:HD1	1:A:445:LEU:H	1.62	0.47
1:A:462:PHE:HE2	1:G:554:ILE:HG22	1.80	0.47
1:B:268:ASN:HA	1:B:271:HIS:CD2	2.49	0.47
1:B:308:PRO:HD3	1:B:637:PHE:HE2	1.77	0.47
1:C:526:HIS:CE1	1:C:531:GLU:HG3	2.50	0.47
1:E:557:VAL:HG23	1:E:559:ILE:HG13	1.96	0.47
1:E:607:GLN:NE2	1:Q:625:ASP:OD1	2.48	0.47
1:E:607:GLN:NE2	1:X:625:ASP:OD1	139.94	0.47
1:F:557:VAL:HG23	1:F:559:ILE:HG13	1.96	0.47
1:G:259:GLN:NE2	1:G:273:PHE:HE1	2.11	0.47
1:G:526:HIS:CE1	1:G:531:GLU:HG3	2.50	0.47
1:H:452:SER:HA	1:H:457:GLN:HG3	1.97	0.47
1:H:526:HIS:CE1	1:H:531:GLU:HG3	2.50	0.47
1:I:396:GLU:OE1	1:I:396:GLU:N	2.47	0.47
1:K:526:HIS:CE1	1:K:531:GLU:HG3	2.50	0.47
1:M:698:ILE:O	1:R:701:THR:OG1	130.43	0.47
1:N:268:ASN:HA	1:N:271:HIS:CD2	2.49	0.47
1:P:364:PRO:O	1:P:365:PHE:HB3	2.15	0.47
1:Q:684:TRP:N	1:Q:684:TRP:CD1	2.81	0.47
1:R:497:ASN:N	1:R:498:SER:HB2	2.28	0.47
1:V:398:PHE:CD1	1:V:398:PHE:N	2.81	0.47
1:V:452:SER:HA	1:V:457:GLN:HG3	1.97	0.47
1:V:526:HIS:CE1	1:V:531:GLU:HG3	2.50	0.47
1:W:557:VAL:HG23	1:W:559:ILE:HG13	1.95	0.47
1:W:625:ASP:OD1	1:Y:607:GLN:NE2	24.01	0.47
1:X:288:HIS:HE2	1:X:614:GLN:HB3	1.78	0.47
1:Y:398:PHE:CD1	1:Y:398:PHE:N	2.81	0.47
1:Z:526:HIS:CE1	1:Z:531:GLU:HG3	2.50	0.47
1:1:396:GLU:OE1	1:1:396:GLU:N	2.47	0.47
1:1:452:SER:HA	1:1:457:GLN:HG3	1.97	0.47
1:2:364:PRO:O	1:2:365:PHE:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:698:ILE:O	1:L:701:THR:OG1	2.18	0.47
1:D:343:PHE:HD1	1:D:344:THR:H	1.61	0.47
1:D:364:PRO:O	1:D:365:PHE:HB3	2.15	0.47
1:E:625:ASP:OD1	1:F:607:GLN:NE2	2.48	0.47
1:G:625:ASP:OD1	1:H:607:GLN:NE2	65.16	0.47
1:J:526:HIS:CE1	1:J:531:GLU:HG3	2.50	0.47
1:K:364:PRO:O	1:K:365:PHE:HB3	2.15	0.47
1:N:398:PHE:CD1	1:N:398:PHE:N	2.81	0.47
1:C:462:PHE:HE2	1:O:554:ILE:HG22	155.61	0.47
1:P:452:SER:HA	1:P:457:GLN:HG3	1.97	0.47
1:P:526:HIS:CE1	1:P:531:GLU:HG3	2.50	0.47
1:Q:452:SER:HA	1:Q:457:GLN:HG3	1.97	0.47
1:Q:474:SER:N	1:R:518:ASN:HD22	59.16	0.47
1:T:444:TYR:HD1	1:T:445:LEU:H	1.62	0.47
1:T:526:HIS:CE1	1:T:531:GLU:HG3	2.50	0.47
1:U:582:ASN:OD1	1:U:591:ALA:N	2.35	0.47
1:T:607:GLN:NE2	1:U:625:ASP:OD1	48.20	0.47
1:E:625:ASP:OD1	1:V:607:GLN:NE2	114.81	0.47
1:W:518:ASN:HD22	1:Y:474:SER:N	41.62	0.47
1:2:259:GLN:NE2	1:2:273:PHE:HE1	2.11	0.47
1:Z:607:GLN:NE2	1:4:625:ASP:OD1	2.47	0.47
1:8:246:THR:HG23	1:8:369:VAL:HG23	1.96	0.47
1:8:364:PRO:O	1:8:365:PHE:HB3	2.15	0.47
1:8:444:TYR:HD1	1:8:445:LEU:H	1.62	0.47
1:8:452:SER:HA	1:8:457:GLN:HG3	1.97	0.47
1:K:518:ASN:HD22	1:8:474:SER:N	2.12	0.47
1:B:396:GLU:OE1	1:B:396:GLU:N	2.47	0.47
1:E:326:ASN:O	1:E:329:THR:OG1	2.19	0.47
1:E:518:ASN:HD22	1:V:474:SER:N	157.91	0.47
1:F:378:LEU:O	1:F:379:THR:OG1	2.26	0.47
1:G:396:GLU:N	1:G:396:GLU:OE1	2.47	0.47
1:J:607:GLN:NE2	1:K:625:ASP:OD1	65.16	0.47
1:B:607:GLN:NE2	1:J:625:ASP:OD1	2.47	0.47
1:B:607:GLN:NE2	1:M:625:ASP:OD1	93.78	0.47
1:M:424:TYR:HA	1:M:731:LEU:O	2.14	0.47
1:N:607:GLN:NE2	1:P:625:ASP:OD1	2.47	0.47
1:P:444:TYR:HD1	1:P:445:LEU:H	1.62	0.47
1:D:518:ASN:HD22	1:P:474:SER:N	2.13	0.47
1:O:462:PHE:HE2	1:P:554:ILE:HG22	108.97	0.47
1:P:544:LYS:N	1:P:556:LYS:O	2.48	0.47
1:Q:246:THR:HG23	1:Q:369:VAL:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:246:THR:HG23	1:S:369:VAL:HG23	1.96	0.47
1:S:557:VAL:HG23	1:S:559:ILE:HG13	1.96	0.47
1:U:378:LEU:O	1:U:379:THR:OG1	2.26	0.47
1:U:444:TYR:HD1	1:U:445:LEU:H	1.62	0.47
1:W:364:PRO:O	1:W:365:PHE:HB3	2.15	0.47
1:W:607:GLN:NE2	1:X:625:ASP:OD1	65.16	0.47
1:Y:246:THR:HG23	1:Y:369:VAL:HG23	1.96	0.47
1:Z:424:TYR:HA	1:Z:731:LEU:O	2.14	0.47
1:2:343:PHE:HD1	1:2:344:THR:H	1.61	0.47
1:4:452:SER:HA	1:4:457:GLN:HG3	1.97	0.47
1:Z:474:SER:N	1:4:518:ASN:HD22	2.13	0.47
1:4:544:LYS:N	1:4:556:LYS:O	2.48	0.47
1:6:268:ASN:HA	1:6:271:HIS:CD2	2.49	0.47
1:6:557:VAL:HG23	1:6:559:ILE:HG13	1.96	0.47
1:7:259:GLN:NE2	1:7:273:PHE:HE1	2.11	0.47
1:7:364:PRO:O	1:7:365:PHE:HB3	2.15	0.47
1:A:607:GLN:NE2	1:8:625:ASP:OD1	133.11	0.47
1:8:424:TYR:HA	1:8:731:LEU:O	2.14	0.47
1:B:246:THR:HG23	1:B:369:VAL:HG23	1.96	0.47
1:B:557:VAL:HG23	1:B:559:ILE:HG13	1.96	0.47
1:B:684:TRP:N	1:B:684:TRP:CD1	2.81	0.47
1:E:364:PRO:O	1:E:365:PHE:HB3	2.15	0.47
1:E:474:SER:N	1:Q:518:ASN:HD22	2.13	0.47
1:F:398:PHE:CD1	1:F:398:PHE:N	2.81	0.47
1:G:452:SER:OG	1:G:456:THR:O	2.27	0.47
1:G:544:LYS:N	1:G:556:LYS:O	2.48	0.47
1:H:364:PRO:O	1:H:365:PHE:HB3	2.15	0.47
1:H:607:GLN:NE2	1:W:625:ASP:OD1	2.48	0.47
1:I:474:SER:N	1:J:518:ASN:HD22	78.41	0.47
1:J:544:LYS:N	1:J:556:LYS:O	2.48	0.47
1:A:518:ASN:HD22	1:K:474:SER:N	126.46	0.47
1:N:452:SER:HA	1:N:457:GLN:HG3	1.97	0.47
1:D:474:SER:N	1:N:518:ASN:HD22	2.13	0.47
1:O:398:PHE:N	1:O:398:PHE:CD1	2.81	0.47
1:O:544:LYS:N	1:O:556:LYS:O	2.48	0.47
1:Q:364:PRO:O	1:Q:365:PHE:HB3	2.15	0.47
1:Q:444:TYR:HD1	1:Q:445:LEU:H	1.62	0.47
1:S:364:PRO:O	1:S:365:PHE:HB3	2.15	0.47
1:S:444:TYR:HD1	1:S:445:LEU:H	1.62	0.47
1:T:445:LEU:HD23	1:T:446:SER:O	2.15	0.47
1:T:474:SER:N	1:U:518:ASN:HD22	78.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:462:PHE:HE2	1:V:554:ILE:HG22	64.64	0.47
1:V:364:PRO:O	1:V:365:PHE:HB3	2.15	0.47
1:W:462:PHE:HE2	1:X:554:ILE:HG22	64.64	0.47
1:Z:398:PHE:CD1	1:Z:398:PHE:N	2.81	0.47
1:1:246:THR:HG23	1:1:369:VAL:HG23	1.96	0.47
1:1:444:TYR:HD1	1:1:445:LEU:H	1.62	0.47
1:2:445:LEU:HD23	1:2:446:SER:O	2.15	0.47
1:3:381:ASN:OD1	1:3:382:ASN:N	2.47	0.47
1:Z:518:ASN:HD22	1:3:474:SER:N	2.13	0.47
1:3:544:LYS:N	1:3:556:LYS:O	2.48	0.47
1:5:246:THR:HG23	1:5:369:VAL:HG23	1.96	0.47
1:5:518:ASN:HD22	1:7:474:SER:N	2.13	0.47
1:6:364:PRO:O	1:6:365:PHE:HB3	2.15	0.47
1:6:582:ASN:OD1	1:6:591:ALA:N	2.35	0.47
1:7:444:TYR:CD1	1:7:445:LEU:N	2.83	0.47
1:8:544:LYS:N	1:8:556:LYS:O	2.48	0.47
1:A:474:SER:N	1:G:518:ASN:HD22	2.12	0.47
1:D:444:TYR:HD1	1:D:445:LEU:H	1.62	0.47
1:E:445:LEU:HD23	1:E:446:SER:O	2.15	0.47
1:E:462:PHE:HE2	1:X:554:ILE:HG22	155.92	0.47
1:E:544:LYS:N	1:E:556:LYS:O	2.48	0.47
1:F:474:SER:N	1:H:518:ASN:HD22	136.66	0.47
1:F:544:LYS:N	1:F:556:LYS:O	2.48	0.47
1:F:607:GLN:NE2	1:H:625:ASP:OD1	121.38	0.47
1:J:474:SER:N	1:K:518:ASN:HD22	59.16	0.47
1:L:444:TYR:CD1	1:L:445:LEU:N	2.83	0.47
1:M:452:SER:HA	1:M:457:GLN:HG3	1.97	0.47
1:M:544:LYS:N	1:M:556:LYS:O	2.48	0.47
1:M:474:SER:N	1:N:518:ASN:HD22	78.43	0.47
1:N:544:LYS:N	1:N:556:LYS:O	2.48	0.47
1:O:364:PRO:O	1:O:365:PHE:HB3	2.15	0.47
1:T:246:THR:HG23	1:T:369:VAL:HG23	1.96	0.47
1:V:544:LYS:N	1:V:556:LYS:O	2.48	0.47
1:W:444:TYR:HD1	1:W:445:LEU:H	1.62	0.47
1:W:544:LYS:N	1:W:556:LYS:O	2.48	0.47
1:X:444:TYR:CD1	1:X:445:LEU:N	2.83	0.47
1:X:452:SER:HA	1:X:457:GLN:HG3	1.97	0.47
1:Y:544:LYS:N	1:Y:556:LYS:O	2.48	0.47
1:1:347:GLU:OE1	1:1:347:GLU:N	2.41	0.47
1:1:424:TYR:HA	1:1:731:LEU:O	2.14	0.47
1:3:364:PRO:O	1:3:365:PHE:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:288:HIS:HE2	1:4:614:GLN:HB3	1.78	0.47
1:5:526:HIS:CE1	1:5:531:GLU:HG3	2.50	0.47
1:5:462:PHE:HE2	1:6:554:ILE:HG22	1.80	0.47
1:6:544:LYS:N	1:6:556:LYS:O	2.48	0.47
1:7:445:LEU:HD23	1:7:446:SER:O	2.15	0.47
1:8:526:HIS:CE1	1:8:531:GLU:HG3	2.50	0.47
1:A:398:PHE:CD1	1:A:398:PHE:N	2.81	0.47
1:A:462:PHE:HE2	1:8:554:ILE:HG22	181.51	0.47
1:B:262:SER:N	1:B:272:TYR:O	2.46	0.47
1:B:445:LEU:HD23	1:B:446:SER:O	2.15	0.47
1:C:444:TYR:CD1	1:C:445:LEU:N	2.83	0.47
1:C:445:LEU:HD23	1:C:446:SER:O	2.15	0.47
1:C:452:SER:HA	1:C:457:GLN:HG3	1.97	0.47
1:C:544:LYS:N	1:C:556:LYS:O	2.48	0.47
1:C:684:TRP:N	1:C:684:TRP:CD1	2.81	0.47
1:D:445:LEU:HD23	1:D:446:SER:O	2.15	0.47
1:D:452:SER:HA	1:D:457:GLN:HG3	1.97	0.47
1:E:444:TYR:CD1	1:E:445:LEU:N	2.83	0.47
1:F:364:PRO:O	1:F:365:PHE:HB3	2.15	0.47
1:G:452:SER:HA	1:G:457:GLN:HG3	1.97	0.47
1:H:444:TYR:CD1	1:H:445:LEU:N	2.83	0.47
1:H:544:LYS:N	1:H:556:LYS:O	2.48	0.47
1:I:445:LEU:HD23	1:I:446:SER:O	2.15	0.47
1:I:698:ILE:O	1:L:701:THR:OG1	72.05	0.47
1:I:706:LYS:HD2	1:T:386:ALA:O	230.10	0.47
1:J:398:PHE:CD1	1:J:398:PHE:N	2.81	0.47
1:J:452:SER:HA	1:J:457:GLN:HG3	1.97	0.47
1:I:625:ASP:OD1	1:K:607:GLN:NE2	106.61	0.47
1:L:364:PRO:O	1:L:365:PHE:HB3	2.15	0.47
1:L:452:SER:HA	1:L:457:GLN:HG3	1.97	0.47
1:L:544:LYS:N	1:L:556:LYS:O	2.48	0.47
1:M:398:PHE:N	1:M:398:PHE:CD1	2.81	0.47
1:M:444:TYR:CD1	1:M:445:LEU:N	2.83	0.47
1:M:518:ASN:HD22	1:O:474:SER:N	96.84	0.47
1:O:246:THR:HG23	1:O:369:VAL:HG23	1.96	0.47
1:N:462:PHE:HE2	1:P:554:ILE:HG22	1.80	0.47
1:R:246:THR:HG23	1:R:369:VAL:HG23	1.96	0.47
1:R:444:TYR:HD1	1:R:445:LEU:H	1.62	0.47
1:R:445:LEU:HD23	1:R:446:SER:O	2.15	0.47
1:S:444:TYR:CD1	1:S:445:LEU:N	2.83	0.47
1:R:474:SER:N	1:S:518:ASN:HD22	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:526:HIS:CE1	1:S:531:GLU:HG3	2.50	0.47
1:T:444:TYR:CD1	1:T:445:LEU:N	2.83	0.47
1:T:452:SER:HA	1:T:457:GLN:HG3	1.97	0.47
1:U:364:PRO:O	1:U:365:PHE:HB3	2.15	0.47
1:U:444:TYR:CD1	1:U:445:LEU:N	2.83	0.47
1:U:445:LEU:HD23	1:U:446:SER:O	2.15	0.47
1:S:607:GLN:NE2	1:U:625:ASP:OD1	2.48	0.47
1:V:378:LEU:O	1:V:379:THR:OG1	2.26	0.47
1:V:445:LEU:HD23	1:V:446:SER:O	2.15	0.47
1:W:445:LEU:HD23	1:W:446:SER:O	2.15	0.47
1:W:474:SER:N	1:Y:518:ASN:HD22	2.13	0.47
1:X:246:THR:HG23	1:X:369:VAL:HG23	1.96	0.47
1:W:554:ILE:HG22	1:Y:462:PHE:HE2	55.84	0.47
1:Z:444:TYR:CD1	1:Z:445:LEU:N	2.83	0.47
1:Z:444:TYR:HD1	1:Z:445:LEU:H	1.62	0.47
1:Z:544:LYS:N	1:Z:556:LYS:O	2.48	0.47
1:3:246:THR:HG23	1:3:369:VAL:HG23	1.96	0.47
1:3:553:ASP:OD1	1:3:554:ILE:N	2.45	0.47
1:3:625:ASP:OD1	1:4:607:GLN:NE2	2.47	0.47
1:4:445:LEU:HD23	1:4:446:SER:O	2.15	0.47
1:5:268:ASN:HA	1:5:271:HIS:CD2	2.49	0.47
1:5:444:TYR:CD1	1:5:445:LEU:N	2.83	0.47
1:5:474:SER:N	1:6:518:ASN:HD22	2.13	0.47
1:5:424:TYR:HA	1:5:731:LEU:O	2.14	0.47
1:B:462:PHE:HE2	1:J:554:ILE:HG22	1.80	0.47
1:D:682:ILE:O	1:D:683:GLU:HB3	2.15	0.47
1:G:444:TYR:CD1	1:G:445:LEU:N	2.83	0.47
1:H:722:GLU:O	1:H:722:GLU:HG2	2.15	0.47
1:I:444:TYR:CD1	1:I:445:LEU:N	2.83	0.47
1:J:364:PRO:O	1:J:365:PHE:HB3	2.15	0.47
1:K:444:TYR:CD1	1:K:445:LEU:N	2.83	0.47
1:K:682:ILE:O	1:K:683:GLU:HB3	2.15	0.47
1:L:526:HIS:CE1	1:L:531:GLU:HG3	2.50	0.47
1:C:701:THR:OG1	1:L:698:ILE:O	2.18	0.47
1:N:444:TYR:CD1	1:N:445:LEU:N	2.83	0.47
1:N:445:LEU:HD23	1:N:446:SER:O	2.15	0.47
1:F:554:ILE:HG22	1:Q:462:PHE:HE2	1.80	0.47
1:Q:544:LYS:N	1:Q:556:LYS:O	2.48	0.47
1:Q:682:ILE:O	1:Q:683:GLU:HB3	2.15	0.47
1:Q:698:ILE:O	1:R:701:THR:OG1	2.18	0.47
1:R:444:TYR:CD1	1:R:445:LEU:N	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:682:ILE:O	1:R:683:GLU:HB3	2.15	0.47
1:R:722:GLU:O	1:R:722:GLU:HG2	2.15	0.47
1:S:452:SER:HA	1:S:457:GLN:HG3	1.97	0.47
1:S:544:LYS:N	1:S:556:LYS:O	2.48	0.47
1:S:722:GLU:HG2	1:S:722:GLU:O	2.15	0.47
1:T:424:TYR:HA	1:T:731:LEU:O	2.14	0.47
1:S:462:PHE:HE2	1:U:554:ILE:HG22	1.80	0.47
1:U:544:LYS:N	1:U:556:LYS:O	2.48	0.47
1:U:607:GLN:NE2	1:V:625:ASP:OD1	65.16	0.47
1:U:722:GLU:O	1:U:722:GLU:HG2	2.15	0.47
1:E:554:ILE:HG22	1:V:462:PHE:HE2	187.29	0.47
1:W:682:ILE:O	1:W:683:GLU:HB3	2.15	0.47
1:X:364:PRO:O	1:X:365:PHE:HB3	2.15	0.47
1:X:444:TYR:HD1	1:X:445:LEU:H	1.62	0.47
1:X:526:HIS:CE1	1:X:531:GLU:HG3	2.50	0.47
1:X:255:HIS:ND1	1:X:652:PRO:HG3	2.28	0.47
1:Y:364:PRO:O	1:Y:365:PHE:HB3	2.15	0.47
1:Z:445:LEU:HD23	1:Z:446:SER:O	2.15	0.47
1:Z:452:SER:HA	1:Z:457:GLN:HG3	1.97	0.47
1:Z:483:TYR:HE1	1:2:598:GLN:HE22	89.47	0.47
1:Y:701:THR:OG1	1:Z:698:ILE:O	2.18	0.47
1:2:544:LYS:N	1:2:556:LYS:O	2.48	0.47
1:2:682:ILE:O	1:2:683:GLU:HB3	2.15	0.47
1:4:246:THR:HG23	1:4:369:VAL:HG23	1.96	0.47
1:4:444:TYR:CD1	1:4:445:LEU:N	2.83	0.47
1:3:554:ILE:HG22	1:4:462:PHE:HE2	1.80	0.47
1:4:526:HIS:CE1	1:4:531:GLU:HG3	2.49	0.47
1:4:684:TRP:CD1	1:4:684:TRP:N	2.81	0.47
1:4:424:TYR:HA	1:4:731:LEU:O	2.14	0.47
1:5:554:ILE:HG22	1:7:462:PHE:HE2	1.80	0.47
1:5:544:LYS:N	1:5:556:LYS:O	2.48	0.47
1:5:682:ILE:O	1:5:683:GLU:HB3	2.15	0.47
1:6:378:LEU:O	1:6:379:THR:OG1	2.26	0.47
1:7:378:LEU:O	1:7:379:THR:OG1	2.26	0.47
1:A:444:TYR:CD1	1:A:445:LEU:N	2.83	0.47
1:A:682:ILE:O	1:A:683:GLU:HB3	2.15	0.47
1:B:625:ASP:OD1	1:C:607:GLN:NE2	48.21	0.47
1:C:682:ILE:O	1:C:683:GLU:HB3	2.15	0.47
1:D:444:TYR:CD1	1:D:445:LEU:N	2.83	0.47
1:D:607:GLN:NE2	1:L:625:ASP:OD1	121.38	0.47
1:E:462:PHE:HE2	1:Q:554:ILE:HG22	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:682:ILE:O	1:E:683:GLU:HB3	2.16	0.47
1:F:452:SER:HA	1:F:457:GLN:HG3	1.97	0.47
1:F:582:ASN:OD1	1:F:591:ALA:N	2.35	0.47
1:F:722:GLU:O	1:F:722:GLU:HG2	2.15	0.47
1:G:364:PRO:O	1:G:365:PHE:HB3	2.15	0.47
1:H:474:SER:N	1:W:518:ASN:HD22	2.13	0.47
1:I:544:LYS:N	1:I:556:LYS:O	2.48	0.47
1:I:547:SER:OG	1:K:443:TYR:OH	83.00	0.47
1:I:554:ILE:HG22	1:K:462:PHE:HE2	105.26	0.47
1:K:544:LYS:N	1:K:556:LYS:O	2.48	0.47
1:K:554:ILE:HG22	1:8:462:PHE:HE2	1.80	0.47
1:L:398:PHE:CD1	1:L:398:PHE:N	2.81	0.47
1:L:445:LEU:HD23	1:L:446:SER:O	2.15	0.47
1:J:474:SER:N	1:L:518:ASN:HD22	2.13	0.47
1:M:364:PRO:O	1:M:365:PHE:HB3	2.15	0.47
1:C:518:ASN:HD22	1:M:474:SER:N	2.13	0.47
1:B:462:PHE:HE2	1:M:554:ILE:HG22	143.96	0.47
1:M:733:ARG:HG2	1:M:734:ASN:O	2.15	0.47
1:N:682:ILE:O	1:N:683:GLU:HB3	2.15	0.47
1:O:444:TYR:CD1	1:O:445:LEU:N	2.83	0.47
1:P:444:TYR:CD1	1:P:445:LEU:N	2.83	0.47
1:D:554:ILE:HG22	1:P:462:PHE:HE2	1.80	0.47
1:Q:444:TYR:CD1	1:Q:445:LEU:N	2.83	0.47
1:R:544:LYS:N	1:R:556:LYS:O	2.48	0.47
1:T:682:ILE:O	1:T:683:GLU:HB3	2.15	0.47
1:U:526:HIS:CE1	1:U:531:GLU:HG3	2.50	0.47
1:R:625:ASP:OD1	1:U:607:GLN:NE2	2.48	0.47
1:V:444:TYR:CD1	1:V:445:LEU:N	2.83	0.47
1:V:722:GLU:HG2	1:V:722:GLU:O	2.15	0.47
1:W:398:PHE:CD1	1:W:398:PHE:N	2.81	0.47
1:W:474:SER:N	1:X:518:ASN:HD22	59.16	0.47
1:X:544:LYS:N	1:X:556:LYS:O	2.48	0.47
1:X:722:GLU:O	1:X:722:GLU:HG2	2.15	0.47
1:Y:682:ILE:O	1:Y:683:GLU:HB3	2.15	0.47
1:Y:722:GLU:O	1:Y:722:GLU:HG2	2.15	0.47
1:Z:364:PRO:O	1:Z:365:PHE:HB3	2.15	0.47
1:1:364:PRO:O	1:1:365:PHE:HB3	2.15	0.46
1:1:526:HIS:CE1	1:1:531:GLU:HG3	2.50	0.46
1:3:326:ASN:O	1:3:329:THR:OG1	2.19	0.46
1:3:518:ASN:HD22	1:4:474:SER:N	2.12	0.46
1:3:722:GLU:HG2	1:3:722:GLU:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:553:ASP:OD1	1:5:554:ILE:N	2.45	0.46
1:6:452:SER:HA	1:6:457:GLN:HG3	1.97	0.46
1:6:682:ILE:O	1:6:683:GLU:HB3	2.15	0.46
1:6:722:GLU:O	1:6:722:GLU:HG2	2.15	0.46
1:7:444:TYR:HD1	1:7:445:LEU:H	1.62	0.46
1:6:474:SER:N	1:7:518:ASN:HD22	2.13	0.46
1:7:526:HIS:CE1	1:7:531:GLU:HG3	2.50	0.46
1:7:553:ASP:OD1	1:7:554:ILE:N	2.46	0.46
1:7:544:LYS:N	1:7:556:LYS:O	2.48	0.46
1:A:452:SER:HA	1:A:457:GLN:HG3	1.97	0.46
1:A:553:ASP:CG	1:A:554:ILE:H	2.19	0.46
1:A:544:LYS:N	1:A:556:LYS:O	2.48	0.46
1:B:364:PRO:O	1:B:365:PHE:HB3	2.15	0.46
1:B:554:ILE:HG22	1:C:462:PHE:HE2	108.97	0.46
1:B:554:ILE:HG22	1:L:462:PHE:HE2	1.80	0.46
1:B:625:ASP:OD1	1:L:607:GLN:NE2	2.47	0.46
1:C:364:PRO:O	1:C:365:PHE:HB3	2.15	0.46
1:C:398:PHE:N	1:C:398:PHE:CD1	2.81	0.46
1:C:722:GLU:O	1:C:722:GLU:HG2	2.15	0.46
1:D:544:LYS:N	1:D:556:LYS:O	2.48	0.46
1:E:518:ASN:HD22	1:F:474:SER:N	2.13	0.46
1:F:518:ASN:HD22	1:Q:474:SER:N	2.13	0.46
1:G:706:LYS:HD2	1:I:386:ALA:O	172.99	0.46
1:H:682:ILE:O	1:H:683:GLU:HB3	2.15	0.46
1:I:398:PHE:CD1	1:I:398:PHE:N	2.81	0.46
1:I:722:GLU:HG2	1:I:722:GLU:O	2.15	0.46
1:J:607:GLN:NE2	1:L:625:ASP:OD1	2.47	0.46
1:J:722:GLU:O	1:J:722:GLU:HG2	2.15	0.46
1:J:733:ARG:HG2	1:J:734:ASN:O	2.15	0.46
1:K:733:ARG:HG2	1:K:734:ASN:O	2.16	0.46
1:L:682:ILE:O	1:L:683:GLU:HB3	2.15	0.46
1:N:462:PHE:HE2	1:O:554:ILE:HG22	64.64	0.46
1:N:607:GLN:NE2	1:O:625:ASP:OD1	65.16	0.46
1:M:554:ILE:HG22	1:O:462:PHE:HE2	105.27	0.46
1:O:553:ASP:CG	1:O:554:ILE:H	2.19	0.46
1:O:722:GLU:O	1:O:722:GLU:HG2	2.15	0.46
1:Q:398:PHE:CD1	1:Q:398:PHE:N	2.81	0.46
1:Q:607:GLN:NE2	1:R:625:ASP:OD1	65.16	0.46
1:R:553:ASP:CG	1:R:554:ILE:H	2.19	0.46
1:R:733:ARG:HG2	1:R:734:ASN:O	2.15	0.46
1:S:445:LEU:HD23	1:S:446:SER:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:733:ARG:HG2	1:S:734:ASN:O	2.15	0.46
1:T:625:ASP:OD1	1:V:607:GLN:NE2	106.60	0.46
1:U:398:PHE:CD1	1:U:398:PHE:N	2.81	0.46
1:U:733:ARG:HG2	1:U:734:ASN:O	2.15	0.46
1:W:429:SER:OG	1:W:431:ASP:OD1	2.18	0.46
1:W:444:TYR:CD1	1:W:445:LEU:N	2.83	0.46
1:X:445:LEU:HD23	1:X:446:SER:O	2.15	0.46
1:E:474:SER:N	1:X:518:ASN:HD22	151.87	0.46
1:Y:698:ILE:O	1:Z:701:THR:OG1	2.18	0.46
1:Y:733:ARG:HG2	1:Y:734:ASN:O	2.15	0.46
1:1:682:ILE:O	1:1:683:GLU:HB3	2.15	0.46
1:1:607:GLN:NE2	1:2:625:ASP:OD1	2.48	0.46
1:2:722:GLU:HG2	1:2:722:GLU:O	2.15	0.46
1:5:445:LEU:HD23	1:5:446:SER:O	2.15	0.46
1:T:701:THR:OG1	1:5:698:ILE:O	209.82	0.46
1:7:398:PHE:CD1	1:7:398:PHE:N	2.81	0.46
1:7:682:ILE:O	1:7:683:GLU:HB3	2.15	0.46
1:8:445:LEU:HD23	1:8:446:SER:O	2.15	0.46
1:A:364:PRO:O	1:A:365:PHE:HB3	2.15	0.46
1:B:398:PHE:N	1:B:398:PHE:CD1	2.81	0.46
1:B:526:HIS:CE1	1:B:531:GLU:HG3	2.50	0.46
1:B:545:GLN:OE1	1:B:545:GLN:N	2.34	0.46
1:E:444:TYR:HD1	1:E:445:LEU:H	1.62	0.46
1:F:445:LEU:HD23	1:F:446:SER:O	2.15	0.46
1:F:553:ASP:CG	1:F:554:ILE:H	2.19	0.46
1:F:682:ILE:O	1:F:683:GLU:HB3	2.15	0.46
1:G:474:SER:N	1:I:518:ASN:HD22	2.12	0.46
1:G:733:ARG:HG2	1:G:734:ASN:O	2.16	0.46
1:H:658:SER:O	1:H:659:THR:OG1	2.27	0.46
1:H:733:ARG:HG2	1:H:734:ASN:O	2.15	0.46
1:I:553:ASP:CG	1:I:554:ILE:H	2.19	0.46
1:I:733:ARG:HG2	1:I:734:ASN:O	2.16	0.46
1:J:444:TYR:CD1	1:J:445:LEU:N	2.83	0.46
1:J:553:ASP:CG	1:J:554:ILE:H	2.19	0.46
1:C:625:ASP:OD1	1:M:607:GLN:NE2	2.47	0.46
1:O:682:ILE:O	1:O:683:GLU:HB3	2.15	0.46
1:P:445:LEU:HD23	1:P:446:SER:O	2.15	0.46
1:Q:445:LEU:HD23	1:Q:446:SER:O	2.15	0.46
1:Q:462:PHE:HE2	1:R:554:ILE:HG22	64.64	0.46
1:T:364:PRO:O	1:T:365:PHE:HB3	2.15	0.46
1:L:607:GLN:NE2	1:T:625:ASP:OD1	195.58	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:343:PHE:HD1	1:U:344:THR:H	1.61	0.46
1:V:518:ASN:HD22	1:X:474:SER:N	2.13	0.46
1:V:608:ASP:HB3	1:V:609:ARG:H	1.53	0.46
1:Y:444:TYR:CD1	1:Y:445:LEU:N	2.83	0.46
1:Y:445:LEU:HD23	1:Y:446:SER:O	2.15	0.46
1:Z:554:ILE:HG22	1:3:462:PHE:HE2	1.80	0.46
1:Z:733:ARG:HG2	1:Z:734:ASN:O	2.16	0.46
1:1:444:TYR:CD1	1:1:445:LEU:N	2.83	0.46
1:2:424:TYR:HA	1:2:731:LEU:O	2.14	0.46
1:4:364:PRO:O	1:4:365:PHE:HB3	2.15	0.46
1:5:378:LEU:HD23	1:5:378:LEU:HA	1.75	0.46
1:5:598:GLN:HE22	1:6:483:TYR:HE1	1.64	0.46
1:5:722:GLU:O	1:5:722:GLU:HG2	2.15	0.46
1:6:445:LEU:HD23	1:6:446:SER:O	2.15	0.46
1:7:733:ARG:HG2	1:7:734:ASN:O	2.16	0.46
1:C:733:ARG:HG2	1:C:734:ASN:O	2.15	0.46
1:D:722:GLU:O	1:D:722:GLU:HG2	2.15	0.46
1:E:378:LEU:O	1:E:379:THR:OG1	2.26	0.46
1:E:722:GLU:O	1:E:722:GLU:HG2	2.15	0.46
1:E:733:ARG:HG2	1:E:734:ASN:O	2.16	0.46
1:F:444:TYR:CD1	1:F:445:LEU:N	2.83	0.46
1:G:445:LEU:HD23	1:G:446:SER:O	2.15	0.46
1:G:553:ASP:CG	1:G:554:ILE:H	2.19	0.46
1:H:324:THR:HG22	1:H:331:THR:HB	1.98	0.46
1:G:547:SER:OG	1:H:443:TYR:OH	50.13	0.46
1:K:324:THR:HG22	1:K:331:THR:HB	1.98	0.46
1:K:398:PHE:N	1:K:398:PHE:CD1	2.81	0.46
1:L:722:GLU:HG2	1:L:722:GLU:O	2.15	0.46
1:L:733:ARG:HG2	1:L:734:ASN:O	2.16	0.46
1:M:682:ILE:O	1:M:683:GLU:HB3	2.15	0.46
1:M:706:LYS:HD2	1:S:386:ALA:O	140.65	0.46
1:N:364:PRO:O	1:N:365:PHE:HB3	2.15	0.46
1:O:378:LEU:HA	1:O:378:LEU:HD23	1.75	0.46
1:O:452:SER:HA	1:O:457:GLN:HG3	1.97	0.46
1:P:324:THR:HG22	1:P:331:THR:HB	1.98	0.46
1:P:722:GLU:O	1:P:722:GLU:HG2	2.15	0.46
1:Q:553:ASP:OD1	1:Q:554:ILE:N	2.45	0.46
1:Q:553:ASP:CG	1:Q:554:ILE:H	2.19	0.46
1:R:364:PRO:O	1:R:365:PHE:HB3	2.15	0.46
1:S:398:PHE:N	1:S:398:PHE:CD1	2.81	0.46
1:T:553:ASP:CG	1:T:554:ILE:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:722:GLU:O	1:T:722:GLU:HG2	2.15	0.46
1:U:347:GLU:N	1:U:347:GLU:OE1	2.41	0.46
1:W:462:PHE:HE2	1:Y:554:ILE:HG22	1.81	0.46
1:W:722:GLU:O	1:W:722:GLU:HG2	2.15	0.46
1:X:347:GLU:N	1:X:347:GLU:OE1	2.41	0.46
1:X:682:ILE:O	1:X:683:GLU:HB3	2.15	0.46
1:Z:443:TYR:OH	1:4:547:SER:OG	2.30	0.46
1:Z:474:SER:N	1:1:518:ASN:HD22	94.03	0.46
1:1:722:GLU:O	1:1:722:GLU:HG2	2.15	0.46
1:3:324:THR:HG22	1:3:331:THR:HB	1.98	0.46
1:3:582:ASN:OD1	1:3:591:ALA:N	2.35	0.46
1:4:733:ARG:HG2	1:4:734:ASN:O	2.15	0.46
1:6:259:GLN:NE2	1:6:273:PHE:CE1	2.84	0.46
1:6:733:ARG:HG2	1:6:734:ASN:O	2.16	0.46
1:7:452:SER:HA	1:7:457:GLN:HG3	1.97	0.46
1:7:722:GLU:O	1:7:722:GLU:HG2	2.15	0.46
1:8:553:ASP:CG	1:8:554:ILE:H	2.19	0.46
1:8:722:GLU:HG2	1:8:722:GLU:O	2.15	0.46
1:B:722:GLU:HG2	1:B:722:GLU:O	2.15	0.46
1:C:553:ASP:CG	1:C:554:ILE:H	2.19	0.46
1:D:733:ARG:HG2	1:D:734:ASN:O	2.15	0.46
1:E:398:PHE:CD1	1:E:398:PHE:N	2.81	0.46
1:E:658:SER:O	1:E:659:THR:OG1	2.27	0.46
1:F:733:ARG:HG2	1:F:734:ASN:O	2.16	0.46
1:G:324:THR:HG22	1:G:331:THR:HB	1.98	0.46
1:G:554:ILE:HG22	1:H:462:PHE:HE2	64.63	0.46
1:H:398:PHE:CD1	1:H:398:PHE:N	2.81	0.46
1:I:259:GLN:NE2	1:I:273:PHE:CE1	2.84	0.46
1:I:364:PRO:O	1:I:365:PHE:HB3	2.15	0.46
1:J:682:ILE:O	1:J:683:GLU:HB3	2.15	0.46
1:N:553:ASP:OD1	1:N:554:ILE:N	2.45	0.46
1:N:598:GLN:HE22	1:O:483:TYR:HE1	77.03	0.46
1:N:733:ARG:HG2	1:N:734:ASN:O	2.16	0.46
1:O:324:THR:HG22	1:O:331:THR:HB	1.98	0.46
1:C:607:GLN:NE2	1:O:625:ASP:OD1	140.82	0.46
1:P:682:ILE:O	1:P:683:GLU:HB3	2.15	0.46
1:Q:378:LEU:HA	1:Q:378:LEU:HD23	1.75	0.46
1:Q:722:GLU:HG2	1:Q:722:GLU:O	2.15	0.46
1:R:462:PHE:HE2	1:S:554:ILE:HG22	1.80	0.46
1:R:518:ASN:HD22	1:U:474:SER:N	2.13	0.46
1:U:289:CYS:HB2	1:U:290:HIS:ND1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:462:PHE:HE2	1:U:554:ILE:HG22	108.96	0.46
1:U:553:ASP:CG	1:U:554:ILE:H	2.19	0.46
1:U:658:SER:O	1:U:659:THR:OG1	2.27	0.46
1:V:289:CYS:HB2	1:V:290:HIS:ND1	2.31	0.46
1:V:682:ILE:O	1:V:683:GLU:HB3	2.15	0.46
1:W:553:ASP:CG	1:W:554:ILE:H	2.19	0.46
1:X:474:SER:N	1:Y:518:ASN:HD22	78.43	0.46
1:Z:682:ILE:O	1:Z:683:GLU:HB3	2.15	0.46
1:2:444:TYR:CD1	1:2:445:LEU:N	2.83	0.46
1:2:733:ARG:HG2	1:2:734:ASN:O	2.15	0.46
1:3:259:GLN:NE2	1:3:273:PHE:CE1	2.84	0.46
1:3:444:TYR:CD1	1:3:445:LEU:N	2.83	0.46
1:3:445:LEU:HD23	1:3:446:SER:O	2.15	0.46
1:4:444:TYR:HD1	1:4:445:LEU:H	1.62	0.46
1:8:682:ILE:O	1:8:683:GLU:HB3	2.15	0.46
1:A:554:ILE:HG22	1:K:462:PHE:HE2	153.35	0.46
1:A:733:ARG:HG2	1:A:734:ASN:O	2.16	0.46
1:B:347:GLU:N	1:B:347:GLU:OE1	2.41	0.46
1:B:544:LYS:N	1:B:556:LYS:O	2.48	0.46
1:C:289:CYS:HB2	1:C:290:HIS:ND1	2.31	0.46
1:D:553:ASP:CG	1:D:554:ILE:H	2.19	0.46
1:E:324:THR:HG22	1:E:331:THR:HB	1.98	0.46
1:E:553:ASP:CG	1:E:554:ILE:H	2.19	0.46
1:F:259:GLN:NE2	1:F:273:PHE:CE1	2.84	0.46
1:F:289:CYS:HB2	1:F:290:HIS:ND1	2.31	0.46
1:F:598:GLN:HE22	1:H:483:TYR:HE1	138.27	0.46
1:G:259:GLN:NE2	1:G:273:PHE:CE1	2.84	0.46
1:H:386:ALA:O	1:Z:706:LYS:HD2	2.16	0.46
1:J:259:GLN:NE2	1:J:273:PHE:CE1	2.84	0.46
1:J:289:CYS:HB2	1:J:290:HIS:ND1	2.31	0.46
1:J:598:GLN:HE22	1:K:483:TYR:HE1	77.04	0.46
1:K:445:LEU:HD23	1:K:446:SER:O	2.15	0.46
1:L:289:CYS:HB2	1:L:290:HIS:ND1	2.31	0.46
1:O:259:GLN:NE2	1:O:273:PHE:CE1	2.84	0.46
1:O:445:LEU:HD23	1:O:446:SER:O	2.15	0.46
1:N:474:SER:N	1:O:518:ASN:HD22	59.16	0.46
1:P:259:GLN:NE2	1:P:273:PHE:CE1	2.84	0.46
1:Q:324:THR:HG22	1:Q:331:THR:HB	1.98	0.46
1:Q:706:LYS:HD2	1:Y:386:ALA:O	140.20	0.46
1:N:386:ALA:O	1:R:706:LYS:HD2	140.10	0.46
1:S:343:PHE:HD1	1:S:344:THR:H	1.61	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:452:SER:HA	1:U:457:GLN:HG3	1.97	0.46
1:U:608:ASP:HB3	1:U:609:ARG:H	1.53	0.46
1:U:682:ILE:O	1:U:683:GLU:HB3	2.15	0.46
1:X:259:GLN:NE2	1:X:273:PHE:CE1	2.84	0.46
1:X:684:TRP:CD1	1:X:684:TRP:N	2.81	0.46
1:X:733:ARG:HG2	1:X:734:ASN:O	2.16	0.46
1:Z:289:CYS:HB2	1:Z:290:HIS:ND1	2.31	0.46
1:1:259:GLN:NE2	1:1:273:PHE:CE1	2.84	0.46
1:1:462:PHE:HE2	1:2:554:ILE:HG22	1.80	0.46
1:3:398:PHE:CD1	1:3:398:PHE:N	2.81	0.46
1:3:452:SER:HA	1:3:457:GLN:HG3	1.97	0.46
1:4:289:CYS:HB2	1:4:290:HIS:ND1	2.31	0.46
1:7:324:THR:HG22	1:7:331:THR:HB	1.98	0.46
1:A:474:SER:N	1:8:518:ASN:HD22	163.37	0.46
1:A:445:LEU:HD23	1:A:446:SER:O	2.15	0.46
1:D:462:PHE:HE2	1:N:554:ILE:HG22	1.80	0.46
1:F:378:LEU:HA	1:F:378:LEU:HD23	1.75	0.46
1:E:554:ILE:HG22	1:F:462:PHE:HE2	1.80	0.46
1:H:553:ASP:CG	1:H:554:ILE:H	2.19	0.46
1:I:289:CYS:HB2	1:I:290:HIS:ND1	2.31	0.46
1:I:518:ASN:HD22	1:K:474:SER:N	96.85	0.46
1:J:462:PHE:HE2	1:K:554:ILE:HG22	64.64	0.46
1:K:553:ASP:CG	1:K:554:ILE:H	2.19	0.46
1:K:722:GLU:O	1:K:722:GLU:HG2	2.15	0.46
1:L:244:THR:O	1:L:245:ARG:NH1	2.40	0.46
1:L:259:GLN:NE2	1:L:273:PHE:CE1	2.84	0.46
1:M:259:GLN:NE2	1:M:273:PHE:CE1	2.84	0.46
1:M:462:PHE:HE2	1:N:554:ILE:HG22	108.97	0.46
1:N:289:CYS:HB2	1:N:290:HIS:ND1	2.31	0.46
1:N:347:GLU:N	1:N:347:GLU:OE1	2.41	0.46
1:N:444:TYR:HD1	1:N:445:LEU:H	1.62	0.46
1:M:483:TYR:HE1	1:O:598:GLN:HE22	125.79	0.46
1:N:474:SER:N	1:P:518:ASN:HD22	2.13	0.46
1:P:553:ASP:CG	1:P:554:ILE:H	2.19	0.46
1:Q:347:GLU:OE1	1:Q:347:GLU:N	2.41	0.46
1:S:259:GLN:NE2	1:S:273:PHE:CE1	2.84	0.46
1:S:289:CYS:HB2	1:S:290:HIS:ND1	2.31	0.46
1:S:553:ASP:CG	1:S:554:ILE:H	2.19	0.46
1:T:259:GLN:NE2	1:T:273:PHE:CE1	2.84	0.46
1:T:324:THR:HG22	1:T:331:THR:HB	1.98	0.46
1:T:544:LYS:N	1:T:556:LYS:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:259:GLN:NE2	1:U:273:PHE:CE1	2.84	0.46
1:V:259:GLN:NE2	1:V:273:PHE:CE1	2.84	0.46
1:V:733:ARG:HG2	1:V:734:ASN:O	2.15	0.46
1:W:324:THR:HG22	1:W:331:THR:HB	1.98	0.46
1:X:244:THR:O	1:X:245:ARG:NH1	2.40	0.46
1:W:607:GLN:NE2	1:Y:625:ASP:OD1	2.48	0.46
1:Z:259:GLN:NE2	1:Z:273:PHE:CE1	2.84	0.46
1:Z:483:TYR:HE1	1:3:598:GLN:HE22	1.64	0.46
1:Z:722:GLU:O	1:Z:722:GLU:HG2	2.15	0.46
1:1:445:LEU:HD23	1:1:446:SER:O	2.15	0.46
1:2:289:CYS:HB2	1:2:290:HIS:ND1	2.31	0.46
1:3:682:ILE:O	1:3:683:GLU:HB3	2.15	0.46
1:4:259:GLN:NE2	1:4:273:PHE:CE1	2.84	0.46
1:5:259:GLN:NE2	1:5:273:PHE:CE1	2.84	0.46
1:A:324:THR:HG22	1:A:331:THR:HB	1.98	0.46
1:A:378:LEU:HA	1:A:378:LEU:HD23	1.75	0.46
1:A:607:GLN:NE2	1:G:625:ASP:OD1	2.48	0.46
1:B:444:TYR:HD1	1:B:445:LEU:H	1.62	0.46
1:C:259:GLN:NE2	1:C:273:PHE:CE1	2.84	0.46
1:D:259:GLN:NE2	1:D:273:PHE:CE1	2.84	0.46
1:F:324:THR:HG22	1:F:331:THR:HB	1.98	0.46
1:F:462:PHE:HE2	1:H:554:ILE:HG22	149.80	0.46
1:G:244:THR:O	1:G:245:ARG:NH1	2.40	0.46
1:H:289:CYS:HB2	1:H:290:HIS:ND1	2.31	0.46
1:G:518:ASN:HD22	1:H:474:SER:N	59.15	0.46
1:I:452:SER:HA	1:I:457:GLN:HG3	1.97	0.46
1:J:445:LEU:HD23	1:J:446:SER:O	2.15	0.46
1:K:483:TYR:HE1	1:8:598:GLN:HE22	1.64	0.46
1:M:324:THR:HG22	1:M:331:THR:HB	1.98	0.46
1:N:324:THR:HG22	1:N:331:THR:HB	1.98	0.46
1:O:607:GLN:NE2	1:P:625:ASP:OD1	48.21	0.46
1:Q:259:GLN:NE2	1:Q:273:PHE:CE1	2.84	0.46
1:R:259:GLN:NE2	1:R:273:PHE:CE1	2.84	0.46
1:Q:706:LYS:HD2	1:S:386:ALA:O	2.16	0.46
1:T:518:ASN:HD22	1:V:474:SER:N	96.85	0.46
1:U:386:ALA:O	1:5:706:LYS:HD2	228.23	0.46
1:V:553:ASP:CG	1:V:554:ILE:H	2.19	0.46
1:V:386:ALA:O	1:W:706:LYS:HD2	2.16	0.46
1:X:398:PHE:N	1:X:398:PHE:CD1	2.81	0.46
1:W:598:GLN:HE22	1:X:483:TYR:HE1	77.03	0.46
1:Z:553:ASP:CG	1:Z:554:ILE:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:324:THR:HG22	1:1:331:THR:HB	1.98	0.46
1:1:553:ASP:OD1	1:1:554:ILE:N	2.45	0.46
1:2:444:TYR:HD1	1:2:445:LEU:H	1.62	0.46
1:2:553:ASP:CG	1:2:554:ILE:H	2.19	0.46
1:3:733:ARG:HG2	1:3:734:ASN:O	2.15	0.46
1:7:630:PRO:O	1:7:632:PRO:HD3	2.16	0.46
1:A:259:GLN:NE2	1:A:273:PHE:CE1	2.84	0.46
1:A:289:CYS:HB2	1:A:290:HIS:ND1	2.31	0.46
1:B:598:GLN:HE22	1:M:483:TYR:HE1	99.09	0.46
1:F:630:PRO:O	1:F:632:PRO:HD3	2.16	0.46
1:F:706:LYS:HD2	1:G:386:ALA:O	2.16	0.46
1:G:722:GLU:O	1:G:722:GLU:HG2	2.15	0.46
1:A:386:ALA:O	1:J:706:LYS:HD2	93.79	0.46
1:K:259:GLN:NE2	1:K:273:PHE:CE1	2.84	0.46
1:K:289:CYS:HB2	1:K:290:HIS:ND1	2.31	0.46
1:L:630:PRO:O	1:L:632:PRO:HD3	2.16	0.46
1:M:607:GLN:NE2	1:N:625:ASP:OD1	48.21	0.46
1:N:259:GLN:NE2	1:N:273:PHE:CE1	2.84	0.46
1:M:706:LYS:HD2	1:N:386:ALA:O	2.16	0.46
1:B:706:LYS:HD2	1:O:386:ALA:O	193.70	0.46
1:D:483:TYR:HE1	1:P:598:GLN:HE22	1.64	0.46
1:P:733:ARG:HG2	1:P:734:ASN:O	2.16	0.46
1:T:244:THR:O	1:T:245:ARG:NH1	2.40	0.46
1:U:630:PRO:O	1:U:632:PRO:HD3	2.16	0.46
1:W:347:GLU:OE1	1:W:347:GLU:N	2.41	0.46
1:X:324:THR:HG22	1:X:331:THR:HB	1.98	0.46
1:Y:259:GLN:NE2	1:Y:273:PHE:CE1	2.84	0.46
1:Y:289:CYS:HB2	1:Y:290:HIS:ND1	2.31	0.46
1:Y:706:LYS:HD2	1:4:386:ALA:O	2.16	0.46
1:Z:324:THR:HG22	1:Z:331:THR:HB	1.98	0.46
1:Z:630:PRO:O	1:Z:632:PRO:HD3	2.16	0.46
1:1:289:CYS:HB2	1:1:290:HIS:ND1	2.31	0.46
1:1:544:LYS:N	1:1:556:LYS:O	2.48	0.46
1:Z:607:GLN:NE2	1:1:625:ASP:OD1	85.61	0.46
1:2:324:THR:HG22	1:2:331:THR:HB	1.98	0.46
1:4:553:ASP:OD1	1:4:554:ILE:N	2.45	0.46
1:5:324:THR:HG22	1:5:331:THR:HB	1.98	0.46
1:6:324:THR:HG22	1:6:331:THR:HB	1.98	0.46
1:7:259:GLN:NE2	1:7:273:PHE:CE1	2.84	0.46
1:6:462:PHE:CD2	1:7:557:VAL:HG11	2.51	0.46
1:8:444:TYR:CD1	1:8:445:LEU:N	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:733:ARG:HG2	1:8:734:ASN:O	2.16	0.46
1:A:630:PRO:O	1:A:632:PRO:HD3	2.16	0.46
1:A:722:GLU:HG2	1:A:722:GLU:O	2.15	0.46
1:B:598:GLN:HE22	1:J:483:TYR:HE1	1.64	0.46
1:D:289:CYS:HB2	1:D:290:HIS:ND1	2.31	0.46
1:E:259:GLN:NE2	1:E:273:PHE:CE1	2.84	0.46
1:E:630:PRO:O	1:E:632:PRO:HD3	2.16	0.46
1:J:630:PRO:O	1:J:632:PRO:HD3	2.16	0.46
1:M:289:CYS:HB2	1:M:290:HIS:ND1	2.31	0.46
1:M:445:LEU:HD23	1:M:446:SER:O	2.15	0.46
1:M:553:ASP:CG	1:M:554:ILE:H	2.19	0.46
1:N:378:LEU:HD23	1:N:378:LEU:HA	1.75	0.46
1:O:342:VAL:HG13	1:O:343:PHE:N	2.31	0.46
1:F:483:TYR:HE1	1:Q:598:GLN:HE22	1.64	0.46
1:R:289:CYS:HB2	1:R:290:HIS:ND1	2.31	0.46
1:S:326:ASN:O	1:S:329:THR:OG1	2.19	0.46
1:S:608:ASP:HB3	1:S:609:ARG:H	1.53	0.46
1:S:630:PRO:O	1:S:632:PRO:HD3	2.16	0.46
1:S:682:ILE:O	1:S:683:GLU:HB3	2.15	0.46
1:T:658:SER:O	1:T:659:THR:OG1	2.27	0.46
1:V:347:GLU:OE1	1:V:347:GLU:N	2.41	0.46
1:V:630:PRO:O	1:V:632:PRO:HD3	2.16	0.46
1:1:398:PHE:N	1:1:398:PHE:CD1	2.81	0.46
1:1:630:PRO:O	1:1:632:PRO:HD3	2.16	0.46
1:3:444:TYR:HD1	1:3:445:LEU:H	1.62	0.46
1:4:347:GLU:N	1:4:347:GLU:OE1	2.41	0.46
1:4:553:ASP:CG	1:4:554:ILE:H	2.19	0.46
1:5:630:PRO:O	1:5:632:PRO:HD3	2.16	0.46
1:6:289:CYS:HB2	1:6:290:HIS:ND1	2.31	0.46
1:6:553:ASP:CG	1:6:554:ILE:H	2.19	0.46
1:B:630:PRO:O	1:B:632:PRO:HD3	2.16	0.46
1:A:386:ALA:O	1:B:706:LYS:HD2	2.16	0.46
1:E:598:GLN:HE22	1:X:483:TYR:HE1	143.72	0.46
1:F:462:PHE:CD2	1:H:557:VAL:HG11	146.65	0.46
1:G:483:TYR:HE1	1:H:598:GLN:HE22	77.03	0.46
1:G:692:LYS:HG2	1:I:398:PHE:CE1	2.51	0.46
1:H:259:GLN:NE2	1:H:273:PHE:CE1	2.84	0.46
1:I:682:ILE:O	1:I:683:GLU:HB3	2.15	0.46
1:J:462:PHE:CD2	1:K:557:VAL:HG11	61.00	0.46
1:M:553:ASP:OD1	1:M:554:ILE:N	2.46	0.46
1:N:553:ASP:CG	1:N:554:ILE:H	2.19	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:630:PRO:O	1:N:632:PRO:HD3	2.16	0.46
1:O:630:PRO:O	1:O:632:PRO:HD3	2.16	0.46
1:O:733:ARG:HG2	1:O:734:ASN:O	2.16	0.46
1:P:244:THR:O	1:P:245:ARG:NH1	2.40	0.46
1:P:289:CYS:HB2	1:P:290:HIS:ND1	2.31	0.46
1:Q:462:PHE:CD2	1:R:557:VAL:HG11	61.00	0.46
1:Q:630:PRO:O	1:Q:632:PRO:HD3	2.16	0.46
1:T:289:CYS:HB2	1:T:290:HIS:ND1	2.31	0.46
1:D:554:ILE:HG22	1:T:462:PHE:HE2	148.17	0.46
1:T:630:PRO:O	1:T:632:PRO:HD3	2.16	0.46
1:Z:244:THR:O	1:Z:245:ARG:NH1	2.40	0.46
1:1:733:ARG:HG2	1:1:734:ASN:O	2.15	0.45
1:U:706:LYS:HD2	1:2:386:ALA:O	185.44	0.45
1:3:347:GLU:N	1:3:347:GLU:OE1	2.41	0.45
1:Z:625:ASP:OD1	1:3:607:GLN:NE2	2.48	0.45
1:4:398:PHE:CD1	1:4:398:PHE:N	2.81	0.45
1:6:378:LEU:HD23	1:6:378:LEU:HA	1.75	0.45
1:6:444:TYR:CD1	1:6:445:LEU:N	2.83	0.45
1:6:630:PRO:O	1:6:632:PRO:HD3	2.16	0.45
1:8:289:CYS:HB2	1:8:290:HIS:ND1	2.31	0.45
1:C:483:TYR:HE1	1:M:598:GLN:HE22	1.64	0.45
1:D:324:THR:HG22	1:D:331:THR:HB	1.98	0.45
1:D:398:PHE:CD1	1:D:398:PHE:N	2.81	0.45
1:E:289:CYS:HB2	1:E:290:HIS:ND1	2.31	0.45
1:G:289:CYS:HB2	1:G:290:HIS:ND1	2.31	0.45
1:H:518:ASN:HD22	1:Y:474:SER:N	2.13	0.45
1:L:462:PHE:CD2	1:T:557:VAL:HG11	220.00	0.45
1:L:474:SER:N	1:T:518:ASN:HD22	211.72	0.45
1:M:625:ASP:OD1	1:O:607:GLN:NE2	106.59	0.45
1:S:324:THR:HG22	1:S:331:THR:HB	1.98	0.45
1:T:733:ARG:HG2	1:T:734:ASN:O	2.16	0.45
1:W:289:CYS:HB2	1:W:290:HIS:ND1	2.31	0.45
1:G:706:LYS:HD2	1:W:386:ALA:O	2.17	0.45
1:Y:553:ASP:CG	1:Y:554:ILE:H	2.19	0.45
1:1:244:THR:O	1:1:245:ARG:NH1	2.40	0.45
1:2:398:PHE:CD1	1:2:398:PHE:N	2.81	0.45
1:Z:625:ASP:OD1	1:2:607:GLN:NE2	69.56	0.45
1:3:483:TYR:HE1	1:4:598:GLN:HE22	1.64	0.45
1:3:630:PRO:O	1:3:632:PRO:HD3	2.16	0.45
1:6:462:PHE:HE2	1:7:554:ILE:HG22	1.80	0.45
1:A:462:PHE:CD2	1:8:557:VAL:HG11	179.39	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:342:VAL:HG13	1:A:343:PHE:N	2.31	0.45
1:B:553:ASP:CG	1:B:554:ILE:H	2.19	0.45
1:B:518:ASN:HD22	1:C:474:SER:N	78.44	0.45
1:E:386:ALA:O	1:U:706:LYS:HD2	140.42	0.45
1:F:614:GLN:OE1	1:F:614:GLN:N	2.50	0.45
1:F:706:LYS:HD2	1:X:386:ALA:O	154.62	0.45
1:G:682:ILE:O	1:G:683:GLU:HB3	2.15	0.45
1:H:445:LEU:HD23	1:H:446:SER:O	2.15	0.45
1:H:462:PHE:HE2	1:W:554:ILE:HG22	1.80	0.45
1:J:598:GLN:HE22	1:L:483:TYR:HE1	1.64	0.45
1:J:614:GLN:N	1:J:614:GLN:OE1	2.50	0.45
1:K:386:ALA:O	1:W:706:LYS:HD2	202.41	0.45
1:I:483:TYR:HE1	1:K:598:GLN:HE22	125.80	0.45
1:K:614:GLN:OE1	1:K:614:GLN:N	2.50	0.45
1:L:614:GLN:OE1	1:L:614:GLN:N	2.50	0.45
1:D:443:TYR:HH	1:N:547:SER:HG	1.63	0.45
1:O:289:CYS:HB2	1:O:290:HIS:ND1	2.31	0.45
1:N:462:PHE:CD2	1:P:557:VAL:HG11	2.52	0.45
1:Q:614:GLN:N	1:Q:614:GLN:OE1	2.50	0.45
1:R:658:SER:O	1:R:659:THR:OG1	2.27	0.45
1:R:612:TYR:HD1	1:R:727:GLY:CA	2.30	0.45
1:S:598:GLN:HE22	1:U:483:TYR:HE1	1.64	0.45
1:Q:398:PHE:CE1	1:S:692:LYS:HG2	92.29	0.45
1:U:324:THR:HG22	1:U:331:THR:HB	1.98	0.45
1:W:462:PHE:CD2	1:Y:557:VAL:HG11	2.51	0.45
1:W:614:GLN:OE1	1:W:614:GLN:N	2.50	0.45
1:X:553:ASP:CG	1:X:554:ILE:H	2.19	0.45
1:Z:614:GLN:N	1:Z:614:GLN:OE1	2.50	0.45
1:1:553:ASP:CG	1:1:554:ILE:H	2.19	0.45
1:2:452:SER:HA	1:2:457:GLN:HG3	1.97	0.45
1:3:289:CYS:HB2	1:3:290:HIS:ND1	2.31	0.45
1:Z:462:PHE:HE2	1:4:554:ILE:HG22	1.80	0.45
1:5:733:ARG:HG2	1:5:734:ASN:O	2.16	0.45
1:7:289:CYS:HB2	1:7:290:HIS:ND1	2.31	0.45
1:7:553:ASP:CG	1:7:554:ILE:H	2.19	0.45
1:B:324:THR:HG22	1:B:331:THR:HB	1.98	0.45
1:B:733:ARG:HG2	1:B:734:ASN:O	2.15	0.45
1:C:630:PRO:O	1:C:632:PRO:HD3	2.16	0.45
1:D:462:PHE:CD2	1:N:557:VAL:HG11	2.52	0.45
1:D:614:GLN:OE1	1:D:614:GLN:N	2.50	0.45
1:E:614:GLN:OE1	1:E:614:GLN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:557:VAL:HG11	1:F:462:PHE:CD2	2.52	0.45
1:F:554:ILE:HG22	1:G:462:PHE:HE2	95.87	0.45
1:E:483:TYR:HE1	1:F:598:GLN:HE22	1.64	0.45
1:F:712:PHE:HA	1:F:721:SER:O	2.17	0.45
1:G:304:TRP:CD1	1:G:689:GLU:HA	2.52	0.45
1:G:612:TYR:HD1	1:G:727:GLY:CA	2.30	0.45
1:H:630:PRO:O	1:H:632:PRO:HD3	2.16	0.45
1:I:612:TYR:HD1	1:I:727:GLY:CA	2.30	0.45
1:K:630:PRO:O	1:K:632:PRO:HD3	2.16	0.45
1:B:518:ASN:HD22	1:L:474:SER:N	2.13	0.45
1:M:614:GLN:N	1:M:614:GLN:OE1	2.50	0.45
1:N:614:GLN:OE1	1:N:614:GLN:N	2.50	0.45
1:N:612:TYR:HD1	1:N:727:GLY:CA	2.30	0.45
1:P:612:TYR:HD1	1:P:727:GLY:CA	2.30	0.45
1:Q:289:CYS:HB2	1:Q:290:HIS:ND1	2.31	0.45
1:R:614:GLN:N	1:R:614:GLN:OE1	2.50	0.45
1:R:462:PHE:CD2	1:S:557:VAL:HG11	2.52	0.45
1:S:712:PHE:HA	1:S:721:SER:O	2.17	0.45
1:U:342:VAL:HG13	1:U:343:PHE:N	2.31	0.45
1:R:554:ILE:HG22	1:U:462:PHE:HE2	1.80	0.45
1:U:598:GLN:HE22	1:V:483:TYR:HE1	77.03	0.45
1:U:712:PHE:HA	1:U:721:SER:O	2.17	0.45
1:V:342:VAL:HG13	1:V:343:PHE:N	2.31	0.45
1:V:614:GLN:N	1:V:614:GLN:OE1	2.50	0.45
1:V:706:LYS:HD2	1:W:386:ALA:O	103.22	0.45
1:W:462:PHE:CD2	1:X:557:VAL:HG11	61.00	0.45
1:X:712:PHE:HA	1:X:721:SER:O	2.17	0.45
1:Y:342:VAL:HG13	1:Y:343:PHE:N	2.31	0.45
1:X:462:PHE:CD2	1:Y:557:VAL:HG11	104.33	0.45
1:Y:612:TYR:HD1	1:Y:727:GLY:CA	2.30	0.45
1:Z:557:VAL:HG11	1:2:462:PHE:CD2	113.68	0.45
1:Z:462:PHE:HE2	1:1:554:ILE:HG22	96.70	0.45
1:1:712:PHE:HA	1:1:721:SER:O	2.17	0.45
1:2:304:TRP:CD1	1:2:689:GLU:HA	2.52	0.45
1:4:614:GLN:N	1:4:614:GLN:OE1	2.50	0.45
1:4:682:ILE:O	1:4:683:GLU:HB3	2.15	0.45
1:4:612:TYR:HD1	1:4:727:GLY:CA	2.30	0.45
1:5:289:CYS:HB2	1:5:290:HIS:ND1	2.31	0.45
1:5:364:PRO:O	1:5:365:PHE:HB3	2.15	0.45
1:6:398:PHE:N	1:6:398:PHE:CD1	2.81	0.45
1:6:598:GLN:HE22	1:7:483:TYR:HE1	1.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:614:GLN:OE1	1:6:614:GLN:N	2.50	0.45
1:5:557:VAL:HG11	1:7:462:PHE:CD2	2.51	0.45
1:8:712:PHE:HA	1:8:721:SER:O	2.17	0.45
1:A:614:GLN:OE1	1:A:614:GLN:N	2.50	0.45
1:B:614:GLN:OE1	1:B:614:GLN:N	2.50	0.45
1:B:682:ILE:O	1:B:683:GLU:HB3	2.15	0.45
1:C:304:TRP:CD1	1:C:689:GLU:HA	2.52	0.45
1:C:324:THR:HG22	1:C:331:THR:HB	1.98	0.45
1:E:483:TYR:HE1	1:V:598:GLN:HE22	144.42	0.45
1:G:711:ASP:HB2	1:G:723:PRO:HD2	1.99	0.45
1:H:712:PHE:HA	1:H:721:SER:O	2.17	0.45
1:I:462:PHE:CD2	1:J:557:VAL:HG11	104.31	0.45
1:J:706:LYS:HD2	1:X:386:ALA:O	193.71	0.45
1:J:712:PHE:HA	1:J:721:SER:O	2.17	0.45
1:L:304:TRP:CD1	1:L:689:GLU:HA	2.52	0.45
1:C:706:LYS:HD2	1:M:386:ALA:O	87.01	0.45
1:M:722:GLU:O	1:M:722:GLU:HG2	2.15	0.45
1:M:598:GLN:HE22	1:N:483:TYR:HE1	79.84	0.45
1:N:722:GLU:HG2	1:N:722:GLU:O	2.15	0.45
1:O:614:GLN:N	1:O:614:GLN:OE1	2.50	0.45
1:E:462:PHE:CD2	1:Q:557:VAL:HG11	2.51	0.45
1:Q:712:PHE:HA	1:Q:721:SER:O	2.17	0.45
1:Q:733:ARG:HG2	1:Q:734:ASN:O	2.15	0.45
1:R:324:THR:HG22	1:R:331:THR:HB	1.98	0.45
1:R:598:GLN:HE22	1:S:483:TYR:HE1	1.64	0.45
1:F:386:ALA:O	1:R:706:LYS:HD2	2.16	0.45
1:S:342:VAL:HG13	1:S:343:PHE:N	2.31	0.45
1:T:554:ILE:HG22	1:V:462:PHE:HE2	105.28	0.45
1:T:712:PHE:HA	1:T:721:SER:O	2.17	0.45
1:V:711:ASP:HB2	1:V:723:PRO:HD2	1.99	0.45
1:W:304:TRP:CD1	1:W:689:GLU:HA	2.52	0.45
1:W:630:PRO:O	1:W:632:PRO:HD3	2.16	0.45
1:W:733:ARG:HG2	1:W:734:ASN:O	2.16	0.45
1:X:614:GLN:OE1	1:X:614:GLN:N	2.50	0.45
1:X:658:SER:O	1:X:659:THR:OG1	2.27	0.45
1:Q:701:THR:OG1	1:X:698:ILE:O	109.21	0.45
1:Y:614:GLN:N	1:Y:614:GLN:OE1	2.50	0.45
1:1:429:SER:OG	1:1:431:ASP:OD1	2.18	0.45
1:5:712:PHE:HA	1:5:721:SER:O	2.17	0.45
1:7:712:PHE:HA	1:7:721:SER:O	2.17	0.45
1:8:324:THR:HG22	1:8:331:THR:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:557:VAL:HG11	1:K:462:PHE:CD2	148.61	0.45
1:A:317:ASN:HB3	1:A:677:GLN:HG2	1.99	0.45
1:A:712:PHE:HA	1:A:721:SER:O	2.17	0.45
1:B:289:CYS:HB2	1:B:290:HIS:ND1	2.31	0.45
1:B:452:SER:HA	1:B:457:GLN:HG3	1.97	0.45
1:C:612:TYR:HD1	1:C:727:GLY:CA	2.30	0.45
1:D:304:TRP:CD1	1:D:689:GLU:HA	2.52	0.45
1:D:557:VAL:HG11	1:P:462:PHE:CD2	2.52	0.45
1:D:711:ASP:HB2	1:D:723:PRO:HD2	1.99	0.45
1:E:304:TRP:CD1	1:E:689:GLU:HA	2.52	0.45
1:E:711:ASP:HB2	1:E:723:PRO:HD2	1.99	0.45
1:E:712:PHE:HA	1:E:721:SER:O	2.17	0.45
1:F:612:TYR:O	1:F:613:LEU:HG	2.17	0.45
1:G:614:GLN:OE1	1:G:614:GLN:N	2.50	0.45
1:H:554:ILE:HG22	1:Y:462:PHE:HE2	1.80	0.45
1:H:614:GLN:OE1	1:H:614:GLN:N	2.50	0.45
1:I:304:TRP:CD1	1:I:689:GLU:HA	2.52	0.45
1:I:462:PHE:HE2	1:J:554:ILE:HG22	108.95	0.45
1:I:711:ASP:HB2	1:I:723:PRO:HD2	1.99	0.45
1:K:712:PHE:HA	1:K:721:SER:O	2.17	0.45
1:L:324:THR:HG22	1:L:331:THR:HB	1.98	0.45
1:L:553:ASP:CG	1:L:554:ILE:H	2.19	0.45
1:L:712:PHE:HA	1:L:721:SER:O	2.17	0.45
1:M:612:TYR:HD1	1:M:727:GLY:CA	2.30	0.45
1:N:317:ASN:HB3	1:N:677:GLN:HG2	1.99	0.45
1:N:598:GLN:HE22	1:P:483:TYR:HE1	1.64	0.45
1:L:386:ALA:O	1:N:706:LYS:HD2	188.06	0.45
1:N:712:PHE:HA	1:N:721:SER:O	2.17	0.45
1:O:429:SER:OG	1:O:431:ASP:OD1	2.18	0.45
1:O:706:LYS:HD2	1:P:386:ALA:O	2.16	0.45
1:P:614:GLN:N	1:P:614:GLN:OE1	2.50	0.45
1:P:317:ASN:HB3	1:P:677:GLN:HG2	1.99	0.45
1:P:712:PHE:HA	1:P:721:SER:O	2.17	0.45
1:Q:711:ASP:HB2	1:Q:723:PRO:HD2	1.99	0.45
1:Q:612:TYR:HD1	1:Q:727:GLY:CA	2.30	0.45
1:R:317:ASN:HB3	1:R:677:GLN:HG2	1.99	0.45
1:R:608:ASP:HB3	1:R:609:ARG:H	1.53	0.45
1:S:304:TRP:CD1	1:S:689:GLU:HA	2.52	0.45
1:T:614:GLN:OE1	1:T:614:GLN:N	2.50	0.45
1:U:304:TRP:CD1	1:U:689:GLU:HA	2.52	0.45
1:U:614:GLN:OE1	1:U:614:GLN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:557:VAL:HG11	1:V:462:PHE:CD2	99.78	0.45
1:V:612:TYR:HD1	1:V:727:GLY:CA	2.30	0.45
1:W:711:ASP:HB2	1:W:723:PRO:HD2	1.99	0.45
1:W:612:TYR:HD1	1:W:727:GLY:CA	2.30	0.45
1:E:462:PHE:CD2	1:X:557:VAL:HG11	156.30	0.45
1:X:612:TYR:O	1:X:613:LEU:HG	2.17	0.45
1:Y:317:ASN:HB3	1:Y:677:GLN:HG2	1.99	0.45
1:1:304:TRP:CD1	1:1:689:GLU:HA	2.52	0.45
1:2:711:ASP:HB2	1:2:723:PRO:HD2	1.99	0.45
1:3:612:TYR:HD1	1:3:727:GLY:CA	2.30	0.45
1:4:324:THR:HG22	1:4:331:THR:HB	1.98	0.45
1:P:386:ALA:O	1:6:706:LYS:HD2	172.99	0.45
1:7:317:ASN:HB3	1:7:677:GLN:HG2	1.99	0.45
1:7:614:GLN:N	1:7:614:GLN:OE1	2.50	0.45
1:7:711:ASP:HB2	1:7:723:PRO:HD2	1.99	0.45
1:A:483:TYR:HE1	1:I:598:GLN:HE22	1.65	0.45
1:A:598:GLN:HE22	1:8:483:TYR:HE1	147.86	0.45
1:A:711:ASP:HB2	1:A:723:PRO:HD2	1.99	0.45
1:B:444:TYR:CD1	1:B:445:LEU:N	2.83	0.45
1:C:378:LEU:HA	1:C:378:LEU:HD23	1.75	0.45
1:C:557:VAL:HG11	1:M:462:PHE:CD2	2.51	0.45
1:C:712:PHE:HA	1:C:721:SER:O	2.17	0.45
1:D:386:ALA:O	1:S:706:LYS:HD2	128.03	0.45
1:D:712:PHE:HA	1:D:721:SER:O	2.17	0.45
1:E:342:VAL:HG13	1:E:343:PHE:N	2.31	0.45
1:E:317:ASN:HB3	1:E:677:GLN:HG2	1.99	0.45
1:E:706:LYS:HD2	1:H:386:ALA:O	188.06	0.45
1:F:317:ASN:HB3	1:F:677:GLN:HG2	1.99	0.45
1:G:317:ASN:HB3	1:G:677:GLN:HG2	1.99	0.45
1:H:342:VAL:HG13	1:H:343:PHE:N	2.31	0.45
1:H:462:PHE:CD2	1:W:557:VAL:HG11	2.52	0.45
1:H:557:VAL:HG11	1:Y:462:PHE:CD2	2.52	0.45
1:I:614:GLN:N	1:I:614:GLN:OE1	2.50	0.45
1:J:304:TRP:CD1	1:J:689:GLU:HA	2.52	0.45
1:J:462:PHE:CD2	1:L:557:VAL:HG11	2.52	0.45
1:J:612:TYR:HD1	1:J:727:GLY:CA	2.30	0.45
1:K:557:VAL:HG11	1:8:462:PHE:CD2	2.52	0.45
1:K:612:TYR:HD1	1:K:727:GLY:CA	2.30	0.45
1:D:598:GLN:HE22	1:L:483:TYR:HE1	138.28	0.45
1:O:711:ASP:HB2	1:O:723:PRO:HD2	1.99	0.45
1:Q:378:LEU:O	1:Q:379:THR:OG1	2.26	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:244:THR:O	1:R:245:ARG:NH1	2.40	0.45
1:R:612:TYR:O	1:R:613:LEU:HG	2.17	0.45
1:R:711:ASP:HB2	1:R:723:PRO:HD2	1.99	0.45
1:S:614:GLN:OE1	1:S:614:GLN:N	2.50	0.45
1:T:706:LYS:HD2	1:6:386:ALA:O	232.15	0.45
1:T:711:ASP:HB2	1:T:723:PRO:HD2	1.99	0.45
1:T:612:TYR:HD1	1:T:727:GLY:CA	2.30	0.45
1:T:462:PHE:CD2	1:U:557:VAL:HG11	104.32	0.45
1:W:698:ILE:O	1:X:701:THR:OG1	2.19	0.45
1:V:557:VAL:HG11	1:X:462:PHE:CD2	2.52	0.45
1:X:630:PRO:O	1:X:632:PRO:HD3	2.16	0.45
1:W:598:GLN:HE22	1:Y:483:TYR:HE1	1.64	0.45
1:W:483:TYR:HE1	1:Y:598:GLN:HE22	13.63	0.45
1:Y:612:TYR:O	1:Y:613:LEU:HG	2.17	0.45
1:Y:711:ASP:HB2	1:Y:723:PRO:HD2	1.99	0.45
1:3:612:TYR:O	1:3:613:LEU:HG	2.17	0.45
1:3:706:LYS:HD2	1:8:386:ALA:O	2.16	0.45
1:4:722:GLU:HG2	1:4:722:GLU:O	2.15	0.45
1:6:317:ASN:HB3	1:6:677:GLN:HG2	1.99	0.45
1:5:462:PHE:CD2	1:6:557:VAL:HG11	2.52	0.45
1:6:612:TYR:O	1:6:613:LEU:HG	2.17	0.45
1:7:244:THR:O	1:7:245:ARG:NH1	2.40	0.45
1:8:342:VAL:HG13	1:8:343:PHE:N	2.31	0.45
1:A:706:LYS:HD2	1:Z:386:ALA:O	170.84	0.45
1:B:608:ASP:HB3	1:B:609:ARG:H	1.53	0.45
1:C:614:GLN:N	1:C:614:GLN:OE1	2.50	0.45
1:D:304:TRP:NE1	1:D:689:GLU:HA	2.32	0.45
1:D:630:PRO:O	1:D:632:PRO:HD3	2.16	0.45
1:E:612:TYR:O	1:E:613:LEU:HG	2.17	0.45
1:G:304:TRP:NE1	1:G:689:GLU:HA	2.32	0.45
1:G:378:LEU:O	1:G:379:THR:OG1	2.26	0.45
1:H:317:ASN:HB3	1:H:677:GLN:HG2	1.99	0.45
1:H:387:VAL:HG12	1:H:388:GLY:N	2.32	0.45
1:I:630:PRO:O	1:I:632:PRO:HD3	2.16	0.45
1:J:244:THR:O	1:J:245:ARG:NH1	2.40	0.45
1:J:324:THR:HG22	1:J:331:THR:HB	1.98	0.45
1:L:612:TYR:O	1:L:613:LEU:HG	2.17	0.45
1:M:630:PRO:O	1:M:632:PRO:HD3	2.16	0.45
1:M:386:ALA:O	1:N:706:LYS:HD2	103.22	0.45
1:O:378:LEU:O	1:O:379:THR:OG1	2.26	0.45
1:O:612:TYR:HD1	1:O:727:GLY:CA	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:612:TYR:O	1:O:613:LEU:HG	2.17	0.45
1:O:304:TRP:NE1	1:O:689:GLU:HA	2.32	0.45
1:Q:304:TRP:NE1	1:Q:689:GLU:HA	2.32	0.45
1:Q:598:GLN:HE22	1:R:483:TYR:HE1	77.03	0.45
1:R:557:VAL:HG11	1:U:462:PHE:CD2	2.52	0.45
1:S:317:ASN:HB3	1:S:677:GLN:HG2	1.99	0.45
1:T:598:GLN:HE22	1:U:483:TYR:HE1	79.83	0.45
1:V:712:PHE:HA	1:V:721:SER:O	2.17	0.45
1:W:259:GLN:NE2	1:W:273:PHE:CE1	2.84	0.45
1:W:342:VAL:HG13	1:W:343:PHE:N	2.31	0.45
1:V:554:ILE:HG22	1:X:462:PHE:HE2	1.80	0.45
1:W:701:THR:OG1	1:X:698:ILE:O	2.18	0.45
1:Y:443:TYR:CE1	1:Y:464:GLN:HB2	2.52	0.45
1:H:483:TYR:HE1	1:Y:598:GLN:HE22	1.64	0.45
1:Z:462:PHE:CD2	1:4:557:VAL:HG11	2.52	0.45
1:3:378:LEU:O	1:3:379:THR:OG1	2.26	0.45
1:3:553:ASP:CG	1:3:554:ILE:H	2.19	0.45
1:3:711:ASP:HB2	1:3:723:PRO:HD2	1.99	0.45
1:4:630:PRO:O	1:4:632:PRO:HD3	2.16	0.45
1:5:444:TYR:HD1	1:5:445:LEU:H	1.62	0.45
1:5:317:ASN:HB3	1:5:677:GLN:HG2	1.99	0.45
1:5:711:ASP:HB2	1:5:723:PRO:HD2	1.99	0.45
1:6:443:TYR:CE1	1:6:464:GLN:HB2	2.52	0.45
1:7:612:TYR:O	1:7:613:LEU:HG	2.17	0.45
1:8:259:GLN:NE2	1:8:273:PHE:CE1	2.84	0.45
1:A:608:ASP:HB3	1:A:609:ARG:H	1.53	0.45
1:A:304:TRP:CD1	1:A:689:GLU:HA	2.52	0.45
1:A:304:TRP:NE1	1:A:689:GLU:HA	2.32	0.45
1:B:387:VAL:HG12	1:B:388:GLY:N	2.32	0.45
1:C:304:TRP:NE1	1:C:689:GLU:HA	2.32	0.45
1:D:386:ALA:O	1:E:706:LYS:HD2	2.16	0.45
1:F:244:THR:O	1:F:245:ARG:NH1	2.40	0.45
1:F:304:TRP:CD1	1:F:689:GLU:HA	2.52	0.45
1:F:612:TYR:HD1	1:F:727:GLY:CA	2.30	0.45
1:G:443:TYR:CE1	1:G:464:GLN:HB2	2.52	0.45
1:H:443:TYR:CE1	1:H:464:GLN:HB2	2.52	0.45
1:G:557:VAL:HG11	1:H:462:PHE:CD2	60.99	0.45
1:H:608:ASP:HB3	1:H:609:ARG:H	1.53	0.45
1:H:711:ASP:HB2	1:H:723:PRO:HD2	1.99	0.45
1:H:612:TYR:HD1	1:H:727:GLY:CA	2.30	0.45
1:I:443:TYR:CE1	1:I:464:GLN:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:342:VAL:HG13	1:J:343:PHE:N	2.31	0.45
1:B:462:PHE:CD2	1:J:557:VAL:HG11	2.52	0.45
1:K:443:TYR:CE1	1:K:464:GLN:HB2	2.52	0.45
1:K:317:ASN:HB3	1:K:677:GLN:HG2	1.99	0.45
1:K:711:ASP:HB2	1:K:723:PRO:HD2	1.99	0.45
1:L:443:TYR:CE1	1:L:464:GLN:HB2	2.52	0.45
1:J:462:PHE:HE2	1:L:554:ILE:HG22	1.80	0.45
1:L:304:TRP:NE1	1:L:689:GLU:HA	2.32	0.45
1:M:304:TRP:CD1	1:M:689:GLU:HA	2.52	0.45
1:C:554:ILE:HG22	1:M:462:PHE:HE2	1.80	0.45
1:B:462:PHE:CD2	1:M:557:VAL:HG11	143.26	0.45
1:O:608:ASP:HB3	1:O:609:ARG:H	1.53	0.45
1:O:304:TRP:CD1	1:O:689:GLU:HA	2.52	0.45
1:C:358:HIS:HA	1:P:440:GLN:HA	48.79	0.45
1:R:304:TRP:NE1	1:R:689:GLU:HA	2.32	0.45
1:R:630:PRO:O	1:R:632:PRO:HD3	2.16	0.45
1:T:304:TRP:CD1	1:T:689:GLU:HA	2.52	0.45
1:U:317:ASN:HB3	1:U:677:GLN:HG2	1.99	0.45
1:V:304:TRP:NE1	1:V:689:GLU:HA	2.32	0.45
1:V:387:VAL:HG12	1:V:388:GLY:N	2.32	0.45
1:V:304:TRP:CD1	1:V:689:GLU:HA	2.52	0.45
1:W:304:TRP:NE1	1:W:689:GLU:HA	2.32	0.45
1:W:712:PHE:HA	1:W:721:SER:O	2.17	0.45
1:X:289:CYS:HB2	1:X:290:HIS:ND1	2.31	0.45
1:X:462:PHE:HE2	1:Y:554:ILE:HG22	108.97	0.45
1:V:483:TYR:HE1	1:X:598:GLN:HE22	1.64	0.45
1:X:598:GLN:HE22	1:Y:483:TYR:HE1	79.84	0.45
1:Y:387:VAL:HG12	1:Y:388:GLY:N	2.32	0.45
1:Y:304:TRP:NE1	1:Y:689:GLU:HA	2.32	0.45
1:Z:317:ASN:HB3	1:Z:677:GLN:HG2	1.99	0.45
1:Z:612:TYR:O	1:Z:613:LEU:HG	2.17	0.45
1:Z:711:ASP:HB2	1:Z:723:PRO:HD2	1.99	0.45
1:Z:712:PHE:HA	1:Z:721:SER:O	2.17	0.45
1:2:443:TYR:CE1	1:2:464:GLN:HB2	2.52	0.45
1:2:304:TRP:NE1	1:2:689:GLU:HA	2.32	0.45
1:4:304:TRP:NE1	1:4:689:GLU:HA	2.32	0.45
1:5:347:GLU:N	1:5:347:GLU:OE1	2.41	0.45
1:5:378:LEU:O	1:5:379:THR:OG1	2.26	0.45
1:5:612:TYR:HD1	1:5:727:GLY:CA	2.30	0.45
1:6:612:TYR:HD1	1:6:727:GLY:CA	2.30	0.45
1:8:614:GLN:N	1:8:614:GLN:OE1	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:259:GLN:NE2	1:B:273:PHE:CE1	2.84	0.45
1:B:711:ASP:HB2	1:B:723:PRO:HD2	1.99	0.45
1:C:387:VAL:HG12	1:C:388:GLY:N	2.32	0.45
1:C:526:HIS:ND1	1:C:527:LYS:O	2.50	0.45
1:C:612:TYR:HD1	1:C:727:GLY:HA3	1.82	0.45
1:D:317:ASN:HB3	1:D:677:GLN:HG2	1.99	0.45
1:D:387:VAL:HG12	1:D:388:GLY:N	2.32	0.45
1:D:443:TYR:CE1	1:D:464:GLN:HB2	2.52	0.45
1:E:443:TYR:CE1	1:E:464:GLN:HB2	2.52	0.45
1:F:387:VAL:HG12	1:F:388:GLY:N	2.32	0.45
1:G:560:THR:HG21	1:G:612:TYR:CZ	2.52	0.45
1:H:526:HIS:ND1	1:H:527:LYS:O	2.50	0.45
1:H:304:TRP:CD1	1:H:689:GLU:HA	2.52	0.45
1:A:625:ASP:OD1	1:I:607:GLN:NE2	2.50	0.45
1:I:304:TRP:NE1	1:I:689:GLU:HA	2.32	0.45
1:J:317:ASN:HB3	1:J:677:GLN:HG2	1.99	0.45
1:K:387:VAL:HG12	1:K:388:GLY:N	2.32	0.45
1:I:557:VAL:HG11	1:K:462:PHE:CD2	99.78	0.45
1:K:612:TYR:HD1	1:K:727:GLY:HA3	1.82	0.45
1:K:304:TRP:NE1	1:K:689:GLU:HA	2.32	0.45
1:G:386:ALA:O	1:K:706:LYS:HD2	140.10	0.45
1:L:342:VAL:HG13	1:L:343:PHE:N	2.31	0.45
1:L:526:HIS:ND1	1:L:527:LYS:O	2.50	0.45
1:M:342:VAL:HG13	1:M:343:PHE:N	2.31	0.45
1:M:317:ASN:HB3	1:M:677:GLN:HG2	1.99	0.45
1:M:712:PHE:HA	1:M:721:SER:O	2.17	0.45
1:M:711:ASP:HB2	1:M:723:PRO:HD2	1.99	0.45
1:P:342:VAL:HG13	1:P:343:PHE:N	2.31	0.45
1:P:378:LEU:O	1:P:379:THR:OG1	2.26	0.45
1:P:560:THR:HG21	1:P:612:TYR:CZ	2.52	0.45
1:P:304:TRP:NE1	1:P:689:GLU:HA	2.32	0.45
1:Q:317:ASN:HB3	1:Q:677:GLN:HG2	1.99	0.45
1:R:443:TYR:CE1	1:R:464:GLN:HB2	2.52	0.45
1:R:612:TYR:HD1	1:R:727:GLY:HA3	1.82	0.45
1:R:304:TRP:CD1	1:R:689:GLU:HA	2.52	0.45
1:S:526:HIS:ND1	1:S:527:LYS:O	2.50	0.45
1:R:386:ALA:O	1:V:706:LYS:HD2	2.17	0.45
1:W:443:TYR:CE1	1:W:464:GLN:HB2	2.52	0.45
1:Y:526:HIS:ND1	1:Y:527:LYS:O	2.50	0.45
1:Z:342:VAL:HG13	1:Z:343:PHE:N	2.31	0.45
1:Z:443:TYR:CE1	1:Z:464:GLN:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:443:TYR:CE1	1:1:464:GLN:HB2	2.52	0.45
1:Z:443:TYR:HH	1:1:547:SER:HG	98.35	0.45
1:2:317:ASN:HB3	1:2:677:GLN:HG2	1.99	0.45
1:2:387:VAL:HG12	1:2:388:GLY:N	2.32	0.45
1:2:612:TYR:HD1	1:2:727:GLY:CA	2.30	0.45
1:3:429:SER:OG	1:3:431:ASP:OD1	2.18	0.45
1:4:612:TYR:HD1	1:4:727:GLY:HA3	1.82	0.45
1:5:342:VAL:HG13	1:5:343:PHE:N	2.31	0.45
1:5:614:GLN:OE1	1:5:614:GLN:N	2.50	0.45
1:5:304:TRP:CD1	1:5:689:GLU:HA	2.52	0.45
1:6:526:HIS:ND1	1:6:527:LYS:O	2.50	0.45
1:8:612:TYR:HD1	1:8:727:GLY:HA3	1.82	0.45
1:8:612:TYR:O	1:8:613:LEU:HG	2.17	0.45
1:8:304:TRP:NE1	1:8:689:GLU:HA	2.32	0.45
1:A:612:TYR:HD1	1:A:727:GLY:CA	2.30	0.45
1:B:483:TYR:HE1	1:C:598:GLN:HE22	79.84	0.45
1:B:612:TYR:O	1:B:613:LEU:HG	2.17	0.45
1:B:304:TRP:CD1	1:B:689:GLU:HA	2.52	0.45
1:B:386:ALA:O	1:C:706:LYS:HD2	2.16	0.45
1:D:613:LEU:HD23	1:D:726:ILE:HB	1.99	0.45
1:D:612:TYR:HD1	1:D:727:GLY:CA	2.30	0.45
1:D:612:TYR:HD1	1:D:727:GLY:HA3	1.82	0.45
1:F:443:TYR:CE1	1:F:464:GLN:HB2	2.52	0.45
1:F:526:HIS:ND1	1:F:527:LYS:O	2.50	0.45
1:F:560:THR:HG21	1:F:612:TYR:CZ	2.52	0.45
1:G:598:GLN:HE22	1:I:483:TYR:HE1	1.65	0.45
1:G:698:ILE:O	1:Z:701:THR:OG1	66.44	0.45
1:H:613:LEU:HD23	1:H:726:ILE:HB	1.99	0.45
1:I:387:VAL:HG12	1:I:388:GLY:N	2.32	0.45
1:I:317:ASN:HB3	1:I:677:GLN:HG2	1.99	0.45
1:I:706:LYS:HD2	1:J:386:ALA:O	2.17	0.45
1:J:711:ASP:HB2	1:J:723:PRO:HD2	1.99	0.45
1:K:386:ALA:O	1:7:706:LYS:HD2	2.16	0.45
1:K:304:TRP:CD1	1:K:689:GLU:HA	2.52	0.45
1:K:613:LEU:HD23	1:K:726:ILE:HB	1.99	0.45
1:L:612:TYR:HD1	1:L:727:GLY:HA3	1.82	0.45
1:M:387:VAL:HG12	1:M:388:GLY:N	2.32	0.45
1:M:462:PHE:CD2	1:N:557:VAL:HG11	104.33	0.45
1:N:304:TRP:NE1	1:N:689:GLU:HA	2.32	0.45
1:N:387:VAL:HG12	1:N:388:GLY:N	2.32	0.45
1:N:612:TYR:HD1	1:N:727:GLY:HA3	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:598:GLN:HE22	1:O:483:TYR:HE1	142.73	0.45
1:N:462:PHE:CD2	1:O:557:VAL:HG11	61.00	0.45
1:Q:304:TRP:CD1	1:Q:689:GLU:HA	2.52	0.45
1:Q:526:HIS:ND1	1:Q:527:LYS:O	2.50	0.45
1:S:613:LEU:HD23	1:S:726:ILE:HB	1.99	0.45
1:S:612:TYR:HD1	1:S:727:GLY:CA	2.30	0.45
1:T:387:VAL:HG12	1:T:388:GLY:N	2.32	0.45
1:T:526:HIS:ND1	1:T:527:LYS:O	2.50	0.45
1:L:462:PHE:HE2	1:T:554:ILE:HG22	223.68	0.45
1:T:612:TYR:HD1	1:T:727:GLY:HA3	1.82	0.45
1:U:560:THR:HG21	1:U:612:TYR:CZ	2.52	0.45
1:U:613:LEU:HD23	1:U:726:ILE:HB	2.00	0.45
1:V:526:HIS:ND1	1:V:527:LYS:O	2.50	0.45
1:V:560:THR:HG21	1:V:612:TYR:CZ	2.52	0.45
1:V:612:TYR:O	1:V:613:LEU:HG	2.17	0.45
1:W:526:HIS:ND1	1:W:527:LYS:O	2.50	0.45
1:Y:304:TRP:CD1	1:Y:689:GLU:HA	2.52	0.45
1:T:386:ALA:O	1:Y:706:LYS:HD2	202.75	0.45
1:Y:613:LEU:HD23	1:Y:726:ILE:HB	1.99	0.45
1:Z:526:HIS:ND1	1:Z:527:LYS:O	2.50	0.45
1:Z:304:TRP:CD1	1:Z:689:GLU:HA	2.52	0.45
1:Z:612:TYR:HD1	1:Z:727:GLY:CA	2.30	0.45
1:Z:612:TYR:HD1	1:Z:727:GLY:HA3	1.82	0.45
1:1:560:THR:HG21	1:1:612:TYR:CZ	2.52	0.44
1:2:244:THR:O	1:2:245:ARG:NH1	2.40	0.44
1:3:614:GLN:OE1	1:3:614:GLN:N	2.50	0.44
1:3:712:PHE:HA	1:3:721:SER:O	2.17	0.44
1:Z:598:GLN:HE22	1:4:483:TYR:HE1	1.64	0.44
1:5:553:ASP:CG	1:5:554:ILE:H	2.19	0.44
1:6:560:THR:HG21	1:6:612:TYR:CZ	2.52	0.44
1:6:711:ASP:HB2	1:6:723:PRO:HD2	1.99	0.44
1:8:387:VAL:HG12	1:8:388:GLY:N	2.32	0.44
1:8:317:ASN:HB3	1:8:677:GLN:HG2	1.99	0.44
1:A:387:VAL:HG12	1:A:388:GLY:N	2.32	0.44
1:A:443:TYR:CE1	1:A:464:GLN:HB2	2.52	0.44
1:A:560:THR:HG21	1:A:612:TYR:CZ	2.52	0.44
1:B:557:VAL:HG11	1:L:462:PHE:CD2	2.52	0.44
1:B:612:TYR:HD1	1:B:727:GLY:CA	2.30	0.44
1:C:317:ASN:HB3	1:C:677:GLN:HG2	1.99	0.44
1:D:560:THR:HG21	1:D:612:TYR:CZ	2.52	0.44
1:E:526:HIS:ND1	1:E:527:LYS:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:304:TRP:NE1	1:F:689:GLU:HA	2.32	0.44
1:F:557:VAL:HG11	1:Q:462:PHE:CD2	2.52	0.44
1:F:711:ASP:HB2	1:F:723:PRO:HD2	1.99	0.44
1:G:712:PHE:HA	1:G:721:SER:O	2.17	0.44
1:H:560:THR:HG21	1:H:612:TYR:CZ	2.52	0.44
1:I:324:THR:HG22	1:I:331:THR:HB	1.98	0.44
1:I:342:VAL:HG13	1:I:343:PHE:N	2.31	0.44
1:J:304:TRP:NE1	1:J:689:GLU:HA	2.32	0.44
1:K:560:THR:HG21	1:K:612:TYR:CZ	2.52	0.44
1:L:317:ASN:HB3	1:L:677:GLN:HG2	1.99	0.44
1:B:386:ALA:O	1:L:706:LYS:HD2	31.33	0.44
1:N:304:TRP:CD1	1:N:689:GLU:HA	2.52	0.44
1:N:443:TYR:CE1	1:N:464:GLN:HB2	2.52	0.44
1:N:560:THR:HG21	1:N:612:TYR:CZ	2.52	0.44
1:P:292:SER:HB3	1:S:694:TRP:CZ3	106.68	0.44
1:P:387:VAL:HG12	1:P:388:GLY:N	2.32	0.44
1:P:612:TYR:O	1:P:613:LEU:HG	2.17	0.44
1:P:630:PRO:O	1:P:632:PRO:HD3	2.16	0.44
1:P:612:TYR:HD1	1:P:727:GLY:HA3	1.82	0.44
1:Q:342:VAL:HG13	1:Q:343:PHE:N	2.31	0.44
1:P:706:LYS:HE2	1:Q:385:GLN:HG3	2.14	0.44
1:Q:612:TYR:O	1:Q:613:LEU:HG	2.17	0.44
1:R:342:VAL:HG13	1:R:343:PHE:N	2.31	0.44
1:R:526:HIS:ND1	1:R:527:LYS:O	2.50	0.44
1:R:613:LEU:HD23	1:R:726:ILE:HB	1.99	0.44
1:S:560:THR:HG21	1:S:612:TYR:CZ	2.52	0.44
1:T:342:VAL:HG13	1:T:343:PHE:N	2.31	0.44
1:T:443:TYR:CE1	1:T:464:GLN:HB2	2.52	0.44
1:T:560:THR:HG21	1:T:612:TYR:CZ	2.52	0.44
1:T:612:TYR:O	1:T:613:LEU:HG	2.17	0.44
1:U:443:TYR:CE1	1:U:464:GLN:HB2	2.52	0.44
1:U:612:TYR:O	1:U:613:LEU:HG	2.17	0.44
1:W:612:TYR:O	1:W:613:LEU:HG	2.17	0.44
1:X:526:HIS:ND1	1:X:527:LYS:O	2.50	0.44
1:X:612:TYR:HD1	1:X:727:GLY:CA	2.30	0.44
1:Y:324:THR:HG22	1:Y:331:THR:HB	1.98	0.44
1:Y:630:PRO:O	1:Y:632:PRO:HD3	2.16	0.44
1:Y:287:PHE:HE1	1:Y:684:TRP:HH2	1.66	0.44
1:Z:387:VAL:HG12	1:Z:388:GLY:N	2.32	0.44
1:I:526:HIS:ND1	1:I:527:LYS:O	2.50	0.44
1:I:612:TYR:HD1	1:I:727:GLY:CA	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:560:THR:HG21	1:2:612:TYR:CZ	2.52	0.44
1:6:613:LEU:HD23	1:6:726:ILE:HB	1.99	0.44
1:6:304:TRP:NE1	1:6:689:GLU:HA	2.32	0.44
1:7:304:TRP:CD1	1:7:689:GLU:HA	2.52	0.44
1:8:304:TRP:CD1	1:8:689:GLU:HA	2.52	0.44
1:8:630:PRO:O	1:8:632:PRO:HD3	2.16	0.44
1:A:497:ASN:CB	1:A:498:SER:HA	2.45	0.44
1:C:613:LEU:HD23	1:C:726:ILE:HB	1.99	0.44
1:E:244:THR:O	1:E:245:ARG:NH1	2.40	0.44
1:E:612:TYR:HD1	1:E:727:GLY:CA	2.30	0.44
1:F:342:VAL:HG13	1:F:343:PHE:N	2.31	0.44
1:F:613:LEU:HD23	1:F:726:ILE:HB	1.99	0.44
1:G:342:VAL:HG13	1:G:343:PHE:N	2.31	0.44
1:G:630:PRO:O	1:G:632:PRO:HD3	2.16	0.44
1:H:304:TRP:NE1	1:H:689:GLU:HA	2.32	0.44
1:H:706:LYS:HD2	1:I:386:ALA:O	2.17	0.44
1:I:526:HIS:ND1	1:I:527:LYS:O	2.50	0.44
1:I:613:LEU:HD23	1:I:726:ILE:HB	2.00	0.44
1:G:607:GLN:NE2	1:I:625:ASP:OD1	2.50	0.44
1:I:712:PHE:HA	1:I:721:SER:O	2.17	0.44
1:J:387:VAL:HG12	1:J:388:GLY:N	2.32	0.44
1:J:443:TYR:CE1	1:J:464:GLN:HB2	2.52	0.44
1:I:598:GLN:HE22	1:J:483:TYR:HE1	79.82	0.44
1:J:612:TYR:O	1:J:613:LEU:HG	2.17	0.44
1:K:526:HIS:ND1	1:K:527:LYS:O	2.50	0.44
1:K:706:LYS:HD2	1:L:386:ALA:O	2.17	0.44
1:L:613:LEU:HD23	1:L:726:ILE:HB	1.99	0.44
1:M:443:TYR:CE1	1:M:464:GLN:HB2	2.52	0.44
1:M:526:HIS:ND1	1:M:527:LYS:O	2.50	0.44
1:M:613:LEU:HD23	1:M:726:ILE:HB	2.00	0.44
1:N:612:TYR:O	1:N:613:LEU:HG	2.17	0.44
1:O:555:GLU:OE1	1:O:555:GLU:N	2.46	0.44
1:O:712:PHE:HA	1:O:721:SER:O	2.17	0.44
1:O:462:PHE:CD2	1:P:557:VAL:HG11	104.33	0.44
1:Q:287:PHE:HE1	1:Q:684:TRP:HH2	1.66	0.44
1:R:387:VAL:HG12	1:R:388:GLY:N	2.32	0.44
1:R:712:PHE:HA	1:R:721:SER:O	2.17	0.44
1:S:287:PHE:HE1	1:S:684:TRP:HH2	1.66	0.44
1:U:287:PHE:HE1	1:U:684:TRP:HH2	1.66	0.44
1:U:304:TRP:NE1	1:U:689:GLU:HA	2.32	0.44
1:U:612:TYR:HD1	1:U:727:GLY:CA	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:324:THR:HG22	1:V:331:THR:HB	1.98	0.44
1:V:443:TYR:CE1	1:V:464:GLN:HB2	2.52	0.44
1:V:287:PHE:HE1	1:V:684:TRP:HH2	1.66	0.44
1:W:378:LEU:HA	1:W:378:LEU:HD23	1.75	0.44
1:W:287:PHE:HE1	1:W:684:TRP:HH2	1.66	0.44
1:Y:560:THR:HG21	1:Y:612:TYR:CZ	2.52	0.44
1:1:614:GLN:N	1:1:614:GLN:OE1	2.50	0.44
1:2:259:GLN:NE2	1:2:273:PHE:CE1	2.84	0.44
1:3:686:LEU:O	1:3:686:LEU:HD12	2.18	0.44
1:4:387:VAL:HG12	1:4:388:GLY:N	2.32	0.44
1:7:387:VAL:HG12	1:7:388:GLY:N	2.32	0.44
1:A:612:TYR:O	1:A:613:LEU:HG	2.17	0.44
1:B:483:TYR:HE1	1:L:598:GLN:HE22	1.64	0.44
1:B:557:VAL:HG11	1:C:462:PHE:CD2	104.33	0.44
1:B:658:SER:O	1:B:659:THR:OG1	2.27	0.44
1:B:304:TRP:NE1	1:B:689:GLU:HA	2.32	0.44
1:C:386:ALA:O	1:D:706:LYS:HD2	2.17	0.44
1:C:386:ALA:O	1:S:706:LYS:HD2	171.40	0.44
1:D:526:HIS:ND1	1:D:527:LYS:O	2.50	0.44
1:E:378:LEU:HD23	1:E:378:LEU:HA	1.75	0.44
1:E:387:VAL:HG12	1:E:388:GLY:N	2.32	0.44
1:F:344:THR:HB	1:F:646:ILE:HG22	2.00	0.44
1:G:387:VAL:HG12	1:G:388:GLY:N	2.32	0.44
1:G:526:HIS:ND1	1:G:527:LYS:O	2.50	0.44
1:G:613:LEU:HD23	1:G:726:ILE:HB	2.00	0.44
1:G:462:PHE:CD2	1:I:557:VAL:HG11	2.52	0.44
1:J:560:THR:HG21	1:J:612:TYR:CZ	2.52	0.44
1:M:612:TYR:O	1:M:613:LEU:HG	2.17	0.44
1:M:612:TYR:HD1	1:M:727:GLY:HA3	1.82	0.44
1:O:560:THR:HG21	1:O:612:TYR:CZ	2.52	0.44
1:O:706:LYS:HD2	1:7:386:ALA:O	185.02	0.44
1:P:443:TYR:CE1	1:P:464:GLN:HB2	2.52	0.44
1:P:613:LEU:HD23	1:P:726:ILE:HB	2.00	0.44
1:P:304:TRP:CD1	1:P:689:GLU:HA	2.52	0.44
1:Q:560:THR:HG21	1:Q:612:TYR:CZ	2.52	0.44
1:Q:686:LEU:O	1:Q:686:LEU:HD12	2.18	0.44
1:S:443:TYR:CE1	1:S:464:GLN:HB2	2.52	0.44
1:R:477:TRP:CH2	1:S:621:ILE:HG22	2.53	0.44
1:S:304:TRP:NE1	1:S:689:GLU:HA	2.32	0.44
1:S:612:TYR:HD1	1:S:727:GLY:HA3	1.82	0.44
1:L:598:GLN:HE22	1:T:483:TYR:HE1	221.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:344:THR:HB	1:T:646:ILE:HG22	2.00	0.44
1:V:612:TYR:HD1	1:V:727:GLY:HA3	1.82	0.44
1:X:304:TRP:CD1	1:X:689:GLU:HA	2.52	0.44
1:X:706:LYS:HD2	1:Y:386:ALA:O	2.17	0.44
1:Y:612:TYR:HD1	1:Y:727:GLY:HA3	1.82	0.44
1:Y:686:LEU:O	1:Y:686:LEU:HD12	2.18	0.44
1:Y:712:PHE:HA	1:Y:721:SER:O	2.17	0.44
1:Z:557:VAL:HG11	1:3:462:PHE:CD2	2.52	0.44
1:Z:598:GLN:HE22	1:1:483:TYR:HE1	89.83	0.44
1:V:386:ALA:O	1:1:706:LYS:HD2	185.83	0.44
1:1:711:ASP:HB2	1:1:723:PRO:HD2	1.99	0.44
1:2:613:LEU:HD23	1:2:726:ILE:HB	1.99	0.44
1:4:612:TYR:O	1:4:613:LEU:HG	2.17	0.44
1:5:686:LEU:HD12	1:5:686:LEU:O	2.18	0.44
1:6:612:TYR:HD1	1:6:727:GLY:HA3	1.82	0.44
1:8:443:TYR:CE1	1:8:464:GLN:HB2	2.52	0.44
1:A:613:LEU:HD23	1:A:726:ILE:HB	1.99	0.44
1:B:317:ASN:HB3	1:B:677:GLN:HG2	1.99	0.44
1:B:712:PHE:HA	1:B:721:SER:O	2.17	0.44
1:C:560:THR:HG21	1:C:612:TYR:CZ	2.52	0.44
1:E:557:VAL:HG11	1:V:462:PHE:CD2	183.59	0.44
1:E:613:LEU:HD23	1:E:726:ILE:HB	2.00	0.44
1:E:304:TRP:NE1	1:E:689:GLU:HA	2.32	0.44
1:F:557:VAL:HG11	1:G:462:PHE:CD2	95.20	0.44
1:F:686:LEU:HD12	1:F:686:LEU:O	2.18	0.44
1:G:612:TYR:HD1	1:G:727:GLY:HA3	1.82	0.44
1:H:439:ASP:CB	1:H:466:GLY:HA3	2.48	0.44
1:H:612:TYR:O	1:H:613:LEU:HG	2.17	0.44
1:I:612:TYR:HD1	1:I:727:GLY:HA3	1.82	0.44
1:J:344:THR:HB	1:J:646:ILE:HG22	2.00	0.44
1:J:613:LEU:HD23	1:J:726:ILE:HB	2.00	0.44
1:J:686:LEU:O	1:J:686:LEU:HD12	2.18	0.44
1:K:439:ASP:CB	1:K:466:GLY:HA3	2.48	0.44
1:L:387:VAL:HG12	1:L:388:GLY:N	2.32	0.44
1:L:439:ASP:CB	1:L:466:GLY:HA3	2.48	0.44
1:L:560:THR:HG21	1:L:612:TYR:CZ	2.52	0.44
1:D:598:GLN:HE22	1:N:483:TYR:HE1	1.64	0.44
1:R:344:THR:HB	1:R:646:ILE:HG22	2.00	0.44
1:S:387:VAL:HG12	1:S:388:GLY:N	2.32	0.44
1:T:706:LYS:HD2	1:U:386:ALA:O	2.17	0.44
1:U:387:VAL:HG12	1:U:388:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:711:ASP:HB2	1:U:723:PRO:HD2	1.99	0.44
1:V:317:ASN:HB3	1:V:677:GLN:HG2	1.99	0.44
1:V:439:ASP:CB	1:V:466:GLY:HA3	2.48	0.44
1:U:462:PHE:CD2	1:V:557:VAL:HG11	61.00	0.44
1:W:387:VAL:HG12	1:W:388:GLY:N	2.32	0.44
1:H:598:GLN:HE22	1:W:483:TYR:HE1	1.64	0.44
1:W:560:THR:HG21	1:W:612:TYR:CZ	2.52	0.44
1:W:317:ASN:HB3	1:W:677:GLN:HG2	1.99	0.44
1:X:304:TRP:NE1	1:X:689:GLU:HA	2.32	0.44
1:R:386:ALA:O	1:X:706:LYS:HD2	92.85	0.44
1:Z:344:THR:HB	1:Z:646:ILE:HG22	2.00	0.44
1:Z:613:LEU:HD23	1:Z:726:ILE:HB	1.99	0.44
1:Z:304:TRP:NE1	1:Z:689:GLU:HA	2.32	0.44
1:1:387:VAL:HG12	1:1:388:GLY:N	2.32	0.44
1:2:526:HIS:ND1	1:2:527:LYS:O	2.50	0.44
1:2:612:TYR:O	1:2:613:LEU:HG	2.17	0.44
1:2:630:PRO:O	1:2:632:PRO:HD3	2.16	0.44
1:2:706:LYS:HD2	1:3:386:ALA:O	2.16	0.44
1:3:557:VAL:HG11	1:4:462:PHE:CD2	2.52	0.44
1:5:443:TYR:CE1	1:5:464:GLN:HB2	2.52	0.44
1:5:304:TRP:NE1	1:5:689:GLU:HA	2.32	0.44
1:7:613:LEU:HD23	1:7:726:ILE:HB	1.99	0.44
1:8:612:TYR:HD1	1:8:727:GLY:CA	2.30	0.44
1:B:287:PHE:HE1	1:B:684:TRP:HH2	1.66	0.44
1:C:344:THR:HB	1:C:646:ILE:HG22	2.00	0.44
1:C:443:TYR:CE1	1:C:464:GLN:HB2	2.52	0.44
1:C:612:TYR:O	1:C:613:LEU:HG	2.17	0.44
1:D:344:THR:HB	1:D:646:ILE:HG22	2.00	0.44
1:D:612:TYR:O	1:D:613:LEU:HG	2.17	0.44
1:A:706:LYS:HD2	1:E:386:ALA:O	2.17	0.44
1:E:612:TYR:HD1	1:E:727:GLY:HA3	1.82	0.44
1:F:612:TYR:HD1	1:F:727:GLY:HA3	1.82	0.44
1:G:344:THR:HB	1:G:646:ILE:HG22	2.00	0.44
1:G:378:LEU:HA	1:G:378:LEU:HD23	1.75	0.44
1:G:686:LEU:HD12	1:G:686:LEU:O	2.18	0.44
1:H:612:TYR:HD1	1:H:727:GLY:HA3	1.82	0.44
1:I:344:THR:HB	1:I:646:ILE:HG22	2.00	0.44
1:I:560:THR:HG21	1:I:612:TYR:CZ	2.52	0.44
1:I:612:TYR:O	1:I:613:LEU:HG	2.17	0.44
1:I:686:LEU:HD12	1:I:686:LEU:O	2.18	0.44
1:K:344:THR:HB	1:K:646:ILE:HG22	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:612:TYR:O	1:K:613:LEU:HG	2.17	0.44
1:L:344:THR:HB	1:L:646:ILE:HG22	2.00	0.44
1:L:612:TYR:HD1	1:L:727:GLY:CA	2.30	0.44
1:M:560:THR:HG21	1:M:612:TYR:CZ	2.52	0.44
1:M:304:TRP:NE1	1:M:689:GLU:HA	2.32	0.44
1:N:613:LEU:HD23	1:N:726:ILE:HB	2.00	0.44
1:O:612:TYR:HD1	1:O:727:GLY:HA3	1.82	0.44
1:O:686:LEU:O	1:O:686:LEU:HD12	2.18	0.44
1:P:378:LEU:HA	1:P:378:LEU:HD23	1.75	0.44
1:P:526:HIS:ND1	1:P:527:LYS:O	2.50	0.44
1:P:711:ASP:HB2	1:P:723:PRO:HD2	1.99	0.44
1:Q:387:VAL:HG12	1:Q:388:GLY:N	2.32	0.44
1:Q:443:TYR:CE1	1:Q:464:GLN:HB2	2.52	0.44
1:Q:483:TYR:HE1	1:S:598:GLN:HE22	87.22	0.44
1:R:560:THR:HG21	1:R:612:TYR:CZ	2.52	0.44
1:R:686:LEU:HD12	1:R:686:LEU:O	2.18	0.44
1:S:375:TYR:CG	1:S:376:GLY:N	2.86	0.44
1:S:462:PHE:CD2	1:U:557:VAL:HG11	2.52	0.44
1:S:532:LYS:HE2	1:S:533:PHE:CZ	2.53	0.44
1:S:344:THR:HB	1:S:646:ILE:HG22	2.00	0.44
1:T:532:LYS:HE2	1:T:533:PHE:CZ	2.53	0.44
1:U:344:THR:HB	1:U:646:ILE:HG22	2.00	0.44
1:U:439:ASP:CB	1:U:466:GLY:HA3	2.48	0.44
1:U:532:LYS:HE2	1:U:533:PHE:CZ	2.53	0.44
1:Z:439:ASP:CB	1:Z:466:GLY:HA3	2.48	0.44
1:Z:560:THR:HG21	1:Z:612:TYR:CZ	2.52	0.44
1:1:613:LEU:HD23	1:1:726:ILE:HB	1.99	0.44
1:1:287:PHE:HE1	1:1:684:TRP:HH2	1.66	0.44
1:2:614:GLN:N	1:2:614:GLN:OE1	2.50	0.44
1:3:443:TYR:CE1	1:3:464:GLN:HB2	2.52	0.44
1:4:712:PHE:HA	1:4:721:SER:O	2.17	0.44
1:5:387:VAL:HG12	1:5:388:GLY:N	2.32	0.44
1:5:398:PHE:CD1	1:5:398:PHE:N	2.81	0.44
1:5:532:LYS:HE2	1:5:533:PHE:CZ	2.53	0.44
1:6:244:THR:O	1:6:245:ARG:NH1	2.40	0.44
1:7:612:TYR:HD1	1:7:727:GLY:HA3	1.82	0.44
1:8:526:HIS:ND1	1:8:527:LYS:O	2.50	0.44
1:8:613:LEU:HD23	1:8:726:ILE:HB	2.00	0.44
1:8:711:ASP:HB2	1:8:723:PRO:HD2	1.99	0.44
1:A:483:TYR:HE1	1:K:598:GLN:HE22	134.46	0.44
1:A:526:HIS:ND1	1:A:527:LYS:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:612:TYR:HD1	1:A:727:GLY:HA3	1.82	0.44
1:B:686:LEU:HD12	1:B:686:LEU:O	2.18	0.44
1:D:244:THR:O	1:D:245:ARG:NH1	2.40	0.44
1:E:560:THR:HG21	1:E:612:TYR:CZ	2.52	0.44
1:F:375:TYR:CG	1:F:376:GLY:N	2.86	0.44
1:F:483:TYR:HE1	1:G:598:GLN:HE22	87.23	0.44
1:G:612:TYR:O	1:G:613:LEU:HG	2.17	0.44
1:H:532:LYS:HE2	1:H:533:PHE:CZ	2.53	0.44
1:A:398:PHE:CE1	1:I:692:LYS:HG2	2.53	0.44
1:J:375:TYR:CG	1:J:376:GLY:N	2.86	0.44
1:J:439:ASP:CB	1:J:466:GLY:HA3	2.48	0.44
1:J:526:HIS:ND1	1:J:527:LYS:O	2.50	0.44
1:M:439:ASP:CB	1:M:466:GLY:HA3	2.48	0.44
1:N:344:THR:HB	1:N:646:ILE:HG22	2.00	0.44
1:N:497:ASN:CB	1:N:498:SER:HA	2.45	0.44
1:N:526:HIS:ND1	1:N:527:LYS:O	2.50	0.44
1:N:287:PHE:HE1	1:N:684:TRP:HH2	1.65	0.44
1:D:701:THR:OG1	1:N:698:ILE:O	69.74	0.44
1:O:354:LEU:O	1:O:356:SER:N	2.47	0.44
1:O:443:TYR:CE1	1:O:464:GLN:HB2	2.52	0.44
1:M:557:VAL:HG11	1:O:462:PHE:CD2	99.78	0.44
1:O:317:ASN:HB3	1:O:677:GLN:HG2	1.99	0.44
1:Q:532:LYS:HE2	1:Q:533:PHE:CZ	2.53	0.44
1:R:532:LYS:HE2	1:R:533:PHE:CZ	2.53	0.44
1:R:287:PHE:HE1	1:R:684:TRP:HH2	1.65	0.44
1:S:612:TYR:O	1:S:613:LEU:HG	2.17	0.44
1:T:375:TYR:CG	1:T:376:GLY:N	2.86	0.44
1:T:497:ASN:CB	1:T:498:SER:HA	2.45	0.44
1:T:613:LEU:HD23	1:T:726:ILE:HB	2.00	0.44
1:T:304:TRP:NE1	1:T:689:GLU:HA	2.32	0.44
1:U:375:TYR:CG	1:U:376:GLY:N	2.86	0.44
1:U:612:TYR:HD1	1:U:727:GLY:HA3	1.82	0.44
1:W:545:GLN:HA	1:W:546:GLY:HA2	1.77	0.44
1:W:613:LEU:HD23	1:W:726:ILE:HB	2.00	0.44
1:X:344:THR:HB	1:X:646:ILE:HG22	2.00	0.44
1:1:375:TYR:CG	1:1:376:GLY:N	2.86	0.44
1:1:497:ASN:CB	1:1:498:SER:HA	2.45	0.44
1:1:344:THR:HB	1:1:646:ILE:HG22	2.00	0.44
1:1:612:TYR:HD1	1:1:727:GLY:HA3	1.82	0.44
1:1:598:GLN:HE22	1:2:483:TYR:HE1	1.65	0.44
1:3:387:VAL:HG12	1:3:388:GLY:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:621:ILE:HG22	1:3:477:TRP:CH2	2.53	0.44
1:3:560:THR:HG21	1:3:612:TYR:CZ	2.52	0.44
1:5:560:THR:HG21	1:5:612:TYR:CZ	2.52	0.44
1:5:612:TYR:HD1	1:5:727:GLY:HA3	1.82	0.44
1:6:304:TRP:CD1	1:6:689:GLU:HA	2.52	0.44
1:7:304:TRP:NE1	1:7:689:GLU:HA	2.32	0.44
1:7:532:LYS:HE2	1:7:533:PHE:CZ	2.53	0.44
1:7:560:THR:HG21	1:7:612:TYR:CZ	2.52	0.44
1:7:612:TYR:HD1	1:7:727:GLY:CA	2.30	0.44
1:A:375:TYR:CG	1:A:376:GLY:N	2.86	0.44
1:B:375:TYR:CG	1:B:376:GLY:N	2.86	0.44
1:C:439:ASP:CB	1:C:466:GLY:HA3	2.48	0.44
1:C:592:THR:HG22	1:C:593:ALA:H	1.83	0.44
1:C:711:ASP:HB2	1:C:723:PRO:HD2	1.99	0.44
1:D:375:TYR:CG	1:D:376:GLY:N	2.86	0.44
1:D:439:ASP:CB	1:D:466:GLY:HA3	2.48	0.44
1:E:532:LYS:HE2	1:E:533:PHE:CZ	2.53	0.44
1:E:598:GLN:HE22	1:Q:483:TYR:HE1	1.64	0.44
1:E:686:LEU:HD12	1:E:686:LEU:O	2.18	0.44
1:G:375:TYR:CG	1:G:376:GLY:N	2.86	0.44
1:G:532:LYS:HE2	1:G:533:PHE:CZ	2.53	0.44
1:K:532:LYS:HE2	1:K:533:PHE:CZ	2.53	0.44
1:K:287:PHE:HE1	1:K:684:TRP:HH2	1.66	0.44
1:L:378:LEU:HA	1:L:378:LEU:HD23	1.75	0.44
1:L:686:LEU:HD12	1:L:686:LEU:O	2.18	0.44
1:O:314:LYS:HB2	1:O:679:SER:HB3	2.00	0.44
1:O:375:TYR:CG	1:O:376:GLY:N	2.86	0.44
1:O:532:LYS:HE2	1:O:533:PHE:CZ	2.53	0.44
1:P:532:LYS:HE2	1:P:533:PHE:CZ	2.53	0.44
1:Q:612:TYR:HD1	1:Q:727:GLY:HA3	1.82	0.44
1:R:375:TYR:CG	1:R:376:GLY:N	2.86	0.44
1:R:439:ASP:CB	1:R:466:GLY:HA3	2.48	0.44
1:S:439:ASP:CB	1:S:466:GLY:HA3	2.48	0.44
1:L:692:LYS:HG2	1:T:398:PHE:CE1	182.72	0.44
1:T:439:ASP:CB	1:T:466:GLY:HA3	2.48	0.44
1:T:287:PHE:HE1	1:T:684:TRP:HH2	1.66	0.44
1:U:314:LYS:HB2	1:U:679:SER:HB3	2.00	0.44
1:U:526:HIS:ND1	1:U:527:LYS:O	2.50	0.44
1:W:557:VAL:HG11	1:Y:462:PHE:CD2	55.77	0.44
1:W:612:TYR:HD1	1:W:727:GLY:HA3	1.83	0.44
1:X:545:GLN:HA	1:X:546:GLY:HA2	1.77	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:354:LEU:O	1:Z:356:SER:N	2.47	0.44
1:Z:692:LYS:HG2	1:1:398:PHE:CE1	96.16	0.44
1:2:439:ASP:CB	1:2:466:GLY:HA3	2.48	0.44
1:2:686:LEU:HD12	1:2:686:LEU:O	2.18	0.44
1:2:712:PHE:HA	1:2:721:SER:O	2.17	0.44
1:3:304:TRP:CD1	1:3:689:GLU:HA	2.52	0.44
1:4:443:TYR:CE1	1:4:464:GLN:HB2	2.52	0.44
1:4:613:LEU:HD23	1:4:726:ILE:HB	1.99	0.44
1:4:304:TRP:CD1	1:4:689:GLU:HA	2.52	0.44
1:5:613:LEU:HD23	1:5:726:ILE:HB	2.00	0.44
1:5:621:ILE:HG22	1:7:477:TRP:CH2	2.53	0.44
1:7:439:ASP:CB	1:7:466:GLY:HA3	2.48	0.44
1:7:686:LEU:O	1:7:686:LEU:HD12	2.18	0.44
1:A:314:LYS:HB2	1:A:679:SER:HB3	2.00	0.44
1:A:439:ASP:CB	1:A:466:GLY:HA3	2.48	0.44
1:A:532:LYS:HE2	1:A:533:PHE:CZ	2.53	0.44
1:A:287:PHE:HE1	1:A:684:TRP:HH2	1.66	0.44
1:B:621:ILE:HG22	1:C:477:TRP:CH2	64.82	0.44
1:C:686:LEU:O	1:C:686:LEU:HD12	2.18	0.44
1:D:686:LEU:O	1:D:686:LEU:HD12	2.18	0.44
1:E:439:ASP:CB	1:E:466:GLY:HA3	2.48	0.44
1:F:314:LYS:HB2	1:F:679:SER:HB3	2.00	0.44
1:G:439:ASP:CB	1:G:466:GLY:HA3	2.48	0.44
1:G:287:PHE:HE1	1:G:684:TRP:HH2	1.65	0.44
1:G:621:ILE:HG22	1:H:477:TRP:CH2	60.25	0.44
1:H:287:PHE:HE1	1:H:684:TRP:HH2	1.66	0.44
1:I:375:TYR:CG	1:I:376:GLY:N	2.86	0.44
1:J:314:LYS:HB2	1:J:679:SER:HB3	2.00	0.44
1:J:612:TYR:HD1	1:J:727:GLY:HA3	1.82	0.44
1:K:375:TYR:CG	1:K:376:GLY:N	2.86	0.44
1:B:621:ILE:HG22	1:L:477:TRP:CH2	2.53	0.44
1:L:592:THR:HG22	1:L:593:ALA:H	1.83	0.44
1:D:706:LYS:HD2	1:O:386:ALA:O	142.02	0.44
1:O:439:ASP:CB	1:O:466:GLY:HA3	2.48	0.44
1:O:592:THR:HG22	1:O:593:ALA:H	1.83	0.44
1:C:483:TYR:HE1	1:P:598:GLN:HE22	78.91	0.44
1:P:344:THR:HB	1:P:646:ILE:HG22	2.00	0.44
1:P:686:LEU:O	1:P:686:LEU:HD12	2.18	0.44
1:S:711:ASP:HB2	1:S:723:PRO:HD2	1.99	0.44
1:T:317:ASN:HB3	1:T:677:GLN:HG2	1.99	0.44
1:U:686:LEU:O	1:U:686:LEU:HD12	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:314:LYS:HB2	1:V:679:SER:HB3	2.00	0.44
1:V:686:LEU:O	1:V:686:LEU:HD12	2.18	0.44
1:X:387:VAL:HG12	1:X:388:GLY:N	2.32	0.44
1:X:443:TYR:CE1	1:X:464:GLN:HB2	2.52	0.44
1:X:612:TYR:HD1	1:X:727:GLY:HA3	1.82	0.44
1:Y:375:TYR:CG	1:Y:376:GLY:N	2.86	0.44
1:Z:462:PHE:CD2	1:1:557:VAL:HG11	97.49	0.44
1:Z:532:LYS:HE2	1:Z:533:PHE:CZ	2.53	0.44
1:1:532:LYS:HE2	1:1:533:PHE:CZ	2.53	0.44
1:1:304:TRP:NE1	1:1:689:GLU:HA	2.32	0.44
1:2:378:LEU:HD23	1:2:378:LEU:HA	1.75	0.44
1:3:532:LYS:HE2	1:3:533:PHE:CZ	2.53	0.44
1:4:532:LYS:HE2	1:4:533:PHE:CZ	2.53	0.44
1:4:344:THR:HB	1:4:646:ILE:HG22	2.00	0.44
1:4:317:ASN:HB3	1:4:677:GLN:HG2	1.99	0.44
1:6:344:THR:HB	1:6:646:ILE:HG22	2.00	0.44
1:6:439:ASP:CB	1:6:466:GLY:HA3	2.48	0.44
1:6:532:LYS:HE2	1:6:533:PHE:CZ	2.53	0.44
1:8:344:THR:HB	1:8:646:ILE:HG22	2.00	0.44
1:A:686:LEU:HD12	1:A:686:LEU:O	2.18	0.44
1:B:526:HIS:ND1	1:B:527:LYS:O	2.50	0.44
1:E:477:TRP:CH2	1:Q:621:ILE:HG22	2.53	0.44
1:E:344:THR:HB	1:E:646:ILE:HG22	2.00	0.44
1:F:397:TYR:HB3	1:F:398:PHE:CD1	2.53	0.44
1:F:532:LYS:HE2	1:F:533:PHE:CZ	2.53	0.44
1:H:686:LEU:HD12	1:H:686:LEU:O	2.18	0.44
1:I:439:ASP:CB	1:I:466:GLY:HA3	2.48	0.44
1:J:532:LYS:HE2	1:J:533:PHE:CZ	2.53	0.44
1:K:686:LEU:HD12	1:K:686:LEU:O	2.18	0.44
1:L:277:THR:CG2	1:L:375:TYR:HB3	2.48	0.44
1:L:397:TYR:HB3	1:L:398:PHE:CD1	2.53	0.44
1:M:314:LYS:HB2	1:M:679:SER:HB3	2.00	0.44
1:M:532:LYS:HE2	1:M:533:PHE:CZ	2.53	0.44
1:M:621:ILE:HG22	1:O:477:TRP:CH2	97.03	0.44
1:N:532:LYS:HE2	1:N:533:PHE:CZ	2.53	0.44
1:O:526:HIS:ND1	1:O:527:LYS:O	2.50	0.44
1:P:368:ASP:OD2	1:Q:665:LYS:HB3	2.21	0.44
1:P:706:LYS:HD2	1:Q:386:ALA:O	2.17	0.44
1:Q:439:ASP:CB	1:Q:466:GLY:HA3	2.48	0.44
1:Q:613:LEU:HD23	1:Q:726:ILE:HB	2.00	0.44
1:T:348:TYR:OH	1:T:642:PRO:O	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:375:TYR:CG	1:V:376:GLY:N	2.86	0.44
1:W:344:THR:HB	1:W:646:ILE:HG22	2.00	0.44
1:W:686:LEU:HD12	1:W:686:LEU:O	2.18	0.44
1:X:277:THR:CG2	1:X:375:TYR:HB3	2.49	0.44
1:X:397:TYR:HB3	1:X:398:PHE:CD1	2.53	0.44
1:X:592:THR:HG22	1:X:593:ALA:H	1.83	0.44
1:X:613:LEU:HD23	1:X:726:ILE:HB	1.99	0.44
1:X:287:PHE:HE1	1:X:684:TRP:HH2	1.66	0.44
1:Y:326:ASN:O	1:Y:329:THR:OG1	2.19	0.44
1:Y:439:ASP:CB	1:Y:466:GLY:HA3	2.48	0.44
1:Y:545:GLN:HA	1:Y:546:GLY:HA2	1.77	0.44
1:1:612:TYR:O	1:1:613:LEU:HG	2.17	0.43
1:1:317:ASN:HB3	1:1:677:GLN:HG2	1.99	0.43
1:2:342:VAL:HG13	1:2:343:PHE:N	2.31	0.43
1:2:397:TYR:HB3	1:2:398:PHE:CD1	2.53	0.43
1:3:304:TRP:NE1	1:3:689:GLU:HA	2.32	0.43
1:3:526:HIS:ND1	1:3:527:LYS:O	2.50	0.43
1:4:429:SER:OG	1:4:431:ASP:OD1	2.18	0.43
1:4:526:HIS:ND1	1:4:527:LYS:O	2.50	0.43
1:5:483:TYR:HE1	1:7:598:GLN:HE22	1.64	0.43
1:5:526:HIS:ND1	1:5:527:LYS:O	2.50	0.43
1:6:314:LYS:HB2	1:6:679:SER:HB3	2.00	0.43
1:6:397:TYR:HB3	1:6:398:PHE:CD1	2.53	0.43
1:7:443:TYR:CE1	1:7:464:GLN:HB2	2.52	0.43
1:8:532:LYS:HE2	1:8:533:PHE:CZ	2.53	0.43
1:A:354:LEU:O	1:A:356:SER:N	2.47	0.43
1:A:499:GLU:HA	1:I:448:THR:CG2	2.47	0.43
1:A:592:THR:HG22	1:A:593:ALA:H	1.83	0.43
1:B:439:ASP:CB	1:B:466:GLY:HA3	2.48	0.43
1:B:560:THR:HG21	1:B:612:TYR:CZ	2.52	0.43
1:B:613:LEU:HD23	1:B:726:ILE:HB	1.99	0.43
1:C:354:LEU:O	1:C:356:SER:N	2.47	0.43
1:C:397:TYR:HB3	1:C:398:PHE:CD1	2.53	0.43
1:C:466:GLY:N	1:C:473:GLN:HE22	2.17	0.43
1:C:532:LYS:HE2	1:C:533:PHE:CZ	2.53	0.43
1:D:378:LEU:HA	1:D:378:LEU:HD23	1.75	0.43
1:D:397:TYR:HB3	1:D:398:PHE:CD1	2.53	0.43
1:D:532:LYS:HE2	1:D:533:PHE:CZ	2.53	0.43
1:E:375:TYR:CG	1:E:376:GLY:N	2.86	0.43
1:F:439:ASP:CB	1:F:466:GLY:HA3	2.48	0.43
1:F:592:THR:HG22	1:F:593:ALA:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:375:TYR:CG	1:H:376:GLY:N	2.86	0.43
1:H:397:TYR:HB3	1:H:398:PHE:CD1	2.53	0.43
1:I:397:TYR:HB3	1:I:398:PHE:CD1	2.53	0.43
1:J:477:TRP:CH2	1:L:621:ILE:HG22	2.53	0.43
1:I:477:TRP:CH2	1:J:621:ILE:HG22	64.80	0.43
1:K:397:TYR:HB3	1:K:398:PHE:CD1	2.53	0.43
1:L:711:ASP:HB2	1:L:723:PRO:HD2	1.99	0.43
1:M:375:TYR:CG	1:M:376:GLY:N	2.86	0.43
1:M:592:THR:HG22	1:M:593:ALA:H	1.83	0.43
1:N:314:LYS:HB2	1:N:679:SER:HB3	2.00	0.43
1:N:429:SER:OG	1:N:431:ASP:OD1	2.18	0.43
1:N:439:ASP:CB	1:N:466:GLY:HA3	2.48	0.43
1:N:477:TRP:CH2	1:P:621:ILE:HG22	2.53	0.43
1:O:277:THR:CG2	1:O:375:TYR:HB3	2.48	0.43
1:O:387:VAL:HG12	1:O:388:GLY:N	2.32	0.43
1:C:692:LYS:HG2	1:O:398:PHE:CE1	151.71	0.43
1:O:545:GLN:HA	1:O:546:GLY:HA2	1.77	0.43
1:P:354:LEU:O	1:P:356:SER:N	2.47	0.43
1:P:439:ASP:CB	1:P:466:GLY:HA3	2.48	0.43
1:C:625:ASP:OD1	1:P:607:GLN:NE2	67.10	0.43
1:R:397:TYR:HB3	1:R:398:PHE:CD1	2.53	0.43
1:R:348:TYR:OH	1:R:642:PRO:O	2.30	0.43
1:S:314:LYS:HB2	1:S:679:SER:HB3	2.00	0.43
1:S:354:LEU:O	1:S:356:SER:N	2.47	0.43
1:T:354:LEU:O	1:T:356:SER:N	2.47	0.43
1:T:477:TRP:CH2	1:U:621:ILE:HG22	64.81	0.43
1:T:686:LEU:O	1:T:686:LEU:HD12	2.18	0.43
1:V:532:LYS:HE2	1:V:533:PHE:CZ	2.53	0.43
1:W:375:TYR:CG	1:W:376:GLY:N	2.86	0.43
1:W:439:ASP:CB	1:W:466:GLY:HA3	2.48	0.43
1:W:443:TYR:OH	1:Y:547:SER:OG	2.29	0.43
1:X:439:ASP:CB	1:X:466:GLY:HA3	2.48	0.43
1:X:509:HIS:HB3	1:X:514:ASP:OD1	2.19	0.43
1:Y:397:TYR:HB3	1:Y:398:PHE:CD1	2.53	0.43
1:Z:314:LYS:HB2	1:Z:679:SER:HB3	2.00	0.43
1:Z:592:THR:HG22	1:Z:593:ALA:H	1.83	0.43
1:Z:686:LEU:HD12	1:Z:686:LEU:O	2.18	0.43
1:2:314:LYS:HB2	1:2:679:SER:HB3	2.00	0.43
1:2:532:LYS:HE2	1:2:533:PHE:CZ	2.53	0.43
1:3:397:TYR:HB3	1:3:398:PHE:CD1	2.53	0.43
1:4:314:LYS:HB2	1:4:679:SER:HB3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:342:VAL:HG13	1:4:343:PHE:N	2.31	0.43
1:4:375:TYR:CG	1:4:376:GLY:N	2.86	0.43
1:4:658:SER:O	1:4:659:THR:OG1	2.27	0.43
1:5:612:TYR:O	1:5:613:LEU:HG	2.17	0.43
1:7:277:THR:CG2	1:7:375:TYR:HB3	2.48	0.43
1:7:526:HIS:ND1	1:7:527:LYS:O	2.50	0.43
1:8:354:LEU:O	1:8:356:SER:N	2.47	0.43
1:K:621:ILE:HG22	1:8:477:TRP:CH2	2.54	0.43
1:A:477:TRP:CH2	1:8:621:ILE:HG22	135.68	0.43
1:A:277:THR:CG2	1:A:375:TYR:HB3	2.49	0.43
1:A:692:LYS:HG2	1:G:398:PHE:CE1	2.53	0.43
1:B:352:TYR:CZ	1:B:354:LEU:HD13	2.54	0.43
1:B:397:TYR:HB3	1:B:398:PHE:CD1	2.53	0.43
1:B:612:TYR:HD1	1:B:727:GLY:HA3	1.82	0.43
1:C:277:THR:CG2	1:C:375:TYR:HB3	2.48	0.43
1:C:487:ARG:HE	1:P:583:LEU:HD13	84.81	0.43
1:C:509:HIS:HB3	1:C:514:ASP:OD1	2.19	0.43
1:D:621:ILE:HG22	1:P:477:TRP:CH2	2.54	0.43
1:D:621:ILE:HG22	1:T:477:TRP:CH2	117.42	0.43
1:G:352:TYR:CZ	1:G:354:LEU:HD13	2.53	0.43
1:G:277:THR:CG2	1:G:375:TYR:HB3	2.48	0.43
1:H:545:GLN:HA	1:H:546:GLY:HA2	1.77	0.43
1:I:466:GLY:N	1:I:473:GLN:HE22	2.17	0.43
1:I:509:HIS:HB3	1:I:514:ASP:OD1	2.19	0.43
1:I:532:LYS:HE2	1:I:533:PHE:CZ	2.53	0.43
1:I:287:PHE:HE1	1:I:684:TRP:HH2	1.66	0.43
1:J:592:THR:HG22	1:J:593:ALA:H	1.83	0.43
1:J:287:PHE:HE1	1:J:684:TRP:HH2	1.66	0.43
1:L:354:LEU:O	1:L:356:SER:N	2.47	0.43
1:M:344:THR:HB	1:M:646:ILE:HG22	2.00	0.43
1:M:509:HIS:HB3	1:M:514:ASP:OD1	2.18	0.43
1:N:375:TYR:CG	1:N:376:GLY:N	2.86	0.43
1:M:586:GLY:O	1:N:496:ASN:HA	115.47	0.43
1:O:244:THR:O	1:O:245:ARG:NH1	2.40	0.43
1:O:397:TYR:HB3	1:O:398:PHE:CD1	2.53	0.43
1:P:314:LYS:HB2	1:P:679:SER:HB3	2.00	0.43
1:P:611:VAL:O	1:P:727:GLY:HA2	2.19	0.43
1:R:314:LYS:HB2	1:R:679:SER:HB3	2.00	0.43
1:S:555:GLU:OE1	1:S:555:GLU:N	2.46	0.43
1:S:620:LYS:HD3	1:S:642:PRO:CD	2.49	0.43
1:T:483:TYR:HE1	1:V:598:GLN:HE22	125.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:545:GLN:HA	1:T:546:GLY:HA2	1.77	0.43
1:T:592:THR:HG22	1:T:593:ALA:H	1.83	0.43
1:U:620:LYS:HD3	1:U:642:PRO:CD	2.49	0.43
1:V:277:THR:CG2	1:V:375:TYR:HB3	2.48	0.43
1:X:375:TYR:CG	1:X:376:GLY:N	2.86	0.43
1:X:477:TRP:CH2	1:Y:621:ILE:HG22	64.82	0.43
1:X:555:GLU:N	1:X:555:GLU:OE1	2.46	0.43
1:X:317:ASN:HB3	1:X:677:GLN:HG2	1.99	0.43
1:X:686:LEU:HD12	1:X:686:LEU:O	2.18	0.43
1:Y:314:LYS:HB2	1:Y:679:SER:HB3	2.00	0.43
1:Z:277:THR:CG2	1:Z:375:TYR:HB3	2.48	0.43
1:1:592:THR:HG22	1:1:593:ALA:H	1.83	0.43
1:1:686:LEU:HD12	1:1:686:LEU:O	2.18	0.43
1:2:612:TYR:HD1	1:2:727:GLY:HA3	1.82	0.43
1:4:611:VAL:O	1:4:727:GLY:HA2	2.19	0.43
1:5:314:LYS:HB2	1:5:679:SER:HB3	2.00	0.43
1:5:439:ASP:CB	1:5:466:GLY:HA3	2.48	0.43
1:6:387:VAL:HG12	1:6:388:GLY:N	2.32	0.43
1:6:712:PHE:HA	1:6:721:SER:O	2.17	0.43
1:8:560:THR:HG21	1:8:612:TYR:CZ	2.52	0.43
1:A:397:TYR:HB3	1:A:398:PHE:CD1	2.53	0.43
1:A:598:GLN:HE22	1:G:483:TYR:HE1	1.65	0.43
1:A:620:LYS:HD3	1:A:642:PRO:CD	2.49	0.43
1:A:344:THR:HB	1:A:646:ILE:HG22	2.00	0.43
1:B:592:THR:HG22	1:B:593:ALA:H	1.83	0.43
1:C:497:ASN:CB	1:C:498:SER:HA	2.45	0.43
1:D:314:LYS:HB2	1:D:679:SER:HB3	2.00	0.43
1:E:277:THR:CG2	1:E:375:TYR:HB3	2.49	0.43
1:E:509:HIS:HB3	1:E:514:ASP:OD1	2.19	0.43
1:F:552:VAL:CG2	1:F:556:LYS:HD2	2.49	0.43
1:G:314:LYS:HB2	1:G:679:SER:HB3	2.00	0.43
1:G:509:HIS:HB3	1:G:514:ASP:OD1	2.19	0.43
1:H:314:LYS:HB2	1:H:679:SER:HB3	2.00	0.43
1:H:277:THR:CG2	1:H:375:TYR:HB3	2.48	0.43
1:H:611:VAL:O	1:H:727:GLY:HA2	2.19	0.43
1:I:314:LYS:HB2	1:I:679:SER:HB3	2.00	0.43
1:I:352:TYR:CZ	1:I:354:LEU:HD13	2.53	0.43
1:J:397:TYR:HB3	1:J:398:PHE:CD1	2.53	0.43
1:J:466:GLY:N	1:J:473:GLN:HE22	2.16	0.43
1:J:509:HIS:HB3	1:J:514:ASP:OD1	2.19	0.43
1:K:545:GLN:HA	1:K:546:GLY:HA2	1.77	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:592:THR:HG22	1:K:593:ALA:H	1.83	0.43
1:K:611:VAL:O	1:K:727:GLY:HA2	2.19	0.43
1:L:497:ASN:CB	1:L:498:SER:HA	2.45	0.43
1:L:701:THR:OG1	1:L:698:ILE:O	64.93	0.43
1:M:277:THR:CG2	1:M:375:TYR:HB3	2.48	0.43
1:M:397:TYR:HB3	1:M:398:PHE:CD1	2.53	0.43
1:M:466:GLY:N	1:M:473:GLN:HE22	2.16	0.43
1:C:621:ILE:HG22	1:M:477:TRP:CH2	2.53	0.43
1:N:477:TRP:CH2	1:O:621:ILE:HG22	60.25	0.43
1:N:611:VAL:O	1:N:727:GLY:HA2	2.19	0.43
1:O:620:LYS:HD3	1:O:642:PRO:CD	2.49	0.43
1:O:344:THR:HB	1:O:646:ILE:HG22	2.00	0.43
1:P:277:THR:CG2	1:P:375:TYR:HB3	2.48	0.43
1:P:466:GLY:N	1:P:473:GLN:HE22	2.17	0.43
1:P:592:THR:HG22	1:P:593:ALA:N	2.34	0.43
1:Q:314:LYS:HB2	1:Q:679:SER:HB3	2.00	0.43
1:Q:344:THR:HB	1:Q:646:ILE:HG22	2.00	0.43
1:R:592:THR:HG22	1:R:593:ALA:N	2.34	0.43
1:S:277:THR:CG2	1:S:375:TYR:HB3	2.48	0.43
1:S:397:TYR:HB3	1:S:398:PHE:CD1	2.53	0.43
1:S:611:VAL:O	1:S:727:GLY:HA2	2.19	0.43
1:U:277:THR:CG2	1:U:375:TYR:HB3	2.48	0.43
1:U:397:TYR:HB3	1:U:398:PHE:CD1	2.53	0.43
1:R:483:TYR:HE1	1:U:598:GLN:HE22	1.64	0.43
1:V:592:THR:HG22	1:V:593:ALA:N	2.34	0.43
1:V:592:THR:HG22	1:V:593:ALA:H	1.83	0.43
1:W:509:HIS:HB3	1:W:514:ASP:OD1	2.19	0.43
1:W:532:LYS:HE2	1:W:533:PHE:CZ	2.53	0.43
1:X:532:LYS:HE2	1:X:533:PHE:CZ	2.53	0.43
1:X:560:THR:HG21	1:X:612:TYR:CZ	2.52	0.43
1:Y:532:LYS:HE2	1:Y:533:PHE:CZ	2.53	0.43
1:Y:592:THR:HG22	1:Y:593:ALA:N	2.34	0.43
1:Z:477:TRP:CH2	1:4:621:ILE:HG22	2.53	0.43
1:1:342:VAL:HG13	1:1:343:PHE:N	2.31	0.43
1:1:545:GLN:HA	1:1:546:GLY:HA2	1.77	0.43
1:3:314:LYS:HB2	1:3:679:SER:HB3	2.00	0.43
1:3:352:TYR:CZ	1:3:354:LEU:HD13	2.53	0.43
1:3:509:HIS:HB3	1:3:514:ASP:OD1	2.18	0.43
1:4:439:ASP:CB	1:4:466:GLY:HA3	2.48	0.43
1:4:466:GLY:N	1:4:473:GLN:HE22	2.17	0.43
1:4:620:LYS:HD3	1:4:642:PRO:CD	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:397:TYR:HB3	1:5:398:PHE:CD1	2.53	0.43
1:5:344:THR:HB	1:5:646:ILE:HG22	2.00	0.43
1:5:658:SER:O	1:5:659:THR:OG1	2.27	0.43
1:6:277:THR:CG2	1:6:375:TYR:HB3	2.48	0.43
1:6:552:VAL:CG2	1:6:556:LYS:HD2	2.49	0.43
1:7:397:TYR:HB3	1:7:398:PHE:CD1	2.53	0.43
1:7:592:THR:HG22	1:7:593:ALA:N	2.34	0.43
1:7:658:SER:O	1:7:659:THR:OG1	2.27	0.43
1:8:592:THR:HG22	1:8:593:ALA:N	2.34	0.43
1:8:611:VAL:O	1:8:727:GLY:HA2	2.19	0.43
1:A:552:VAL:CG2	1:A:556:LYS:HD2	2.49	0.43
1:B:532:LYS:HE2	1:B:533:PHE:CZ	2.53	0.43
1:B:611:VAL:O	1:B:727:GLY:HA2	2.19	0.43
1:C:314:LYS:HB2	1:C:679:SER:HB3	2.00	0.43
1:C:352:TYR:CZ	1:C:354:LEU:HD13	2.54	0.43
1:D:342:VAL:HG13	1:D:343:PHE:N	2.31	0.43
1:D:592:THR:HG22	1:D:593:ALA:H	1.83	0.43
1:E:592:THR:HG22	1:E:593:ALA:N	2.34	0.43
1:E:611:VAL:O	1:E:727:GLY:HA2	2.19	0.43
1:F:277:THR:CG2	1:F:375:TYR:HB3	2.48	0.43
1:F:640:LYS:HE3	1:F:641:HIS:NE2	2.34	0.43
1:G:466:GLY:N	1:G:473:GLN:HE22	2.16	0.43
1:G:592:THR:HG22	1:G:593:ALA:H	1.83	0.43
1:H:354:LEU:O	1:H:356:SER:N	2.47	0.43
1:H:509:HIS:HB3	1:H:514:ASP:OD1	2.19	0.43
1:H:592:THR:HG22	1:H:593:ALA:H	1.83	0.43
1:H:692:LYS:HG2	1:W:398:PHE:CE1	2.54	0.43
1:I:277:THR:CG2	1:I:375:TYR:HB3	2.49	0.43
1:J:458:SER:OG	1:K:492:SER:OG	73.32	0.43
1:J:552:VAL:CG2	1:J:556:LYS:HD2	2.49	0.43
1:J:592:THR:HG22	1:J:593:ALA:N	2.34	0.43
1:N:397:TYR:HB3	1:N:398:PHE:CD1	2.53	0.43
1:N:466:GLY:N	1:N:473:GLN:HE22	2.17	0.43
1:N:552:VAL:CG2	1:N:556:LYS:HD2	2.49	0.43
1:N:592:THR:HG22	1:N:593:ALA:H	1.83	0.43
1:M:477:TRP:CH2	1:N:621:ILE:HG22	64.81	0.43
1:N:692:LYS:HG2	1:O:398:PHE:CE1	41.78	0.43
1:O:352:TYR:CZ	1:O:354:LEU:HD13	2.54	0.43
1:N:586:GLY:O	1:O:496:ASN:HA	84.40	0.43
1:O:509:HIS:HB3	1:O:514:ASP:OD1	2.18	0.43
1:C:477:TRP:CH2	1:O:621:ILE:HG22	130.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:352:TYR:CZ	1:P:354:LEU:HD13	2.53	0.43
1:P:397:TYR:HB3	1:P:398:PHE:CD1	2.53	0.43
1:Q:382:ASN:CG	1:Q:383:GLY:H	2.22	0.43
1:Q:397:TYR:HB3	1:Q:398:PHE:CD1	2.53	0.43
1:R:354:LEU:O	1:R:356:SER:N	2.47	0.43
1:R:509:HIS:HB3	1:R:514:ASP:OD1	2.19	0.43
1:S:382:ASN:CG	1:S:383:GLY:H	2.22	0.43
1:T:352:TYR:CZ	1:T:354:LEU:HD13	2.54	0.43
1:T:496:ASN:HA	1:V:586:GLY:O	135.80	0.43
1:T:509:HIS:HB3	1:T:514:ASP:OD1	2.19	0.43
1:T:592:THR:HG22	1:T:593:ALA:N	2.34	0.43
1:D:483:TYR:HE1	1:T:598:GLN:HE22	138.30	0.43
1:U:382:ASN:CG	1:U:383:GLY:H	2.22	0.43
1:U:552:VAL:CG2	1:U:556:LYS:HD2	2.49	0.43
1:U:592:THR:HG22	1:U:593:ALA:H	1.83	0.43
1:U:611:VAL:O	1:U:727:GLY:HA2	2.19	0.43
1:V:344:THR:HB	1:V:646:ILE:HG22	2.00	0.43
1:V:552:VAL:CG2	1:V:556:LYS:HD2	2.49	0.43
1:V:613:LEU:HD23	1:V:726:ILE:HB	2.00	0.43
1:W:277:THR:CG2	1:W:375:TYR:HB3	2.48	0.43
1:W:397:TYR:HB3	1:W:398:PHE:CD1	2.53	0.43
1:X:314:LYS:HB2	1:X:679:SER:HB3	2.00	0.43
1:X:352:TYR:CZ	1:X:354:LEU:HD13	2.54	0.43
1:W:477:TRP:CH2	1:X:621:ILE:HG22	60.26	0.43
1:X:714:VAL:HG21	1:X:718:GLY:HA2	2.01	0.43
1:X:711:ASP:HB2	1:X:723:PRO:HD2	1.99	0.43
1:Y:344:THR:HB	1:Y:646:ILE:HG22	2.00	0.43
1:H:621:ILE:HG22	1:Y:477:TRP:CH2	2.53	0.43
1:W:477:TRP:CH2	1:Y:621:ILE:HG22	2.53	0.43
1:Z:375:TYR:CG	1:Z:376:GLY:N	2.86	0.43
1:Z:509:HIS:HB3	1:Z:514:ASP:OD1	2.19	0.43
1:Z:555:GLU:OE1	1:Z:555:GLU:N	2.46	0.43
1:Z:592:THR:HG22	1:Z:593:ALA:N	2.34	0.43
1:1:352:TYR:CZ	1:1:354:LEU:HD13	2.54	0.43
1:1:439:ASP:CB	1:1:466:GLY:HA3	2.48	0.43
1:3:592:THR:HG22	1:3:593:ALA:H	1.83	0.43
1:4:592:THR:HG22	1:4:593:ALA:H	1.83	0.43
1:5:586:GLY:O	1:6:496:ASN:HA	2.19	0.43
1:6:592:THR:HG22	1:6:593:ALA:H	1.83	0.43
1:6:640:LYS:HE3	1:6:641:HIS:NE2	2.34	0.43
1:7:509:HIS:HB3	1:7:514:ASP:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:397:TYR:HB3	1:8:398:PHE:CD1	2.53	0.43
1:8:439:ASP:CB	1:8:466:GLY:HA3	2.48	0.43
1:8:466:GLY:N	1:8:473:GLN:HE22	2.17	0.43
1:8:686:LEU:O	1:8:686:LEU:HD12	2.18	0.43
1:A:640:LYS:HE3	1:A:641:HIS:NE2	2.34	0.43
1:B:509:HIS:HB3	1:B:514:ASP:OD1	2.19	0.43
1:B:344:THR:HB	1:B:646:ILE:HG22	2.00	0.43
1:B:714:VAL:HG21	1:B:718:GLY:HA2	2.01	0.43
1:C:375:TYR:CG	1:C:376:GLY:N	2.86	0.43
1:C:611:VAL:O	1:C:727:GLY:HA2	2.19	0.43
1:D:352:TYR:CZ	1:D:354:LEU:HD13	2.54	0.43
1:E:382:ASN:CG	1:E:383:GLY:H	2.22	0.43
1:F:592:THR:HG22	1:F:593:ALA:H	1.83	0.43
1:F:287:PHE:HE1	1:F:684:TRP:HH2	1.66	0.43
1:G:552:VAL:CG2	1:G:556:LYS:HD2	2.49	0.43
1:H:314:LYS:HB3	1:H:314:LYS:HE3	1.85	0.43
1:F:586:GLY:O	1:H:496:ASN:HA	166.75	0.43
1:I:552:VAL:CG2	1:I:556:LYS:HD2	2.49	0.43
1:I:611:VAL:O	1:I:727:GLY:HA2	2.19	0.43
1:J:277:THR:CG2	1:J:375:TYR:HB3	2.49	0.43
1:J:382:ASN:CG	1:J:383:GLY:H	2.22	0.43
1:J:386:ALA:O	1:L:706:LYS:HD2	87.01	0.43
1:J:497:ASN:CB	1:J:498:SER:HA	2.45	0.43
1:J:586:GLY:O	1:K:496:ASN:HA	84.41	0.43
1:J:640:LYS:HE3	1:J:641:HIS:NE2	2.34	0.43
1:J:611:VAL:O	1:J:727:GLY:HA2	2.19	0.43
1:L:352:TYR:CZ	1:L:354:LEU:HD13	2.54	0.43
1:L:477:TRP:CH2	1:T:621:ILE:HG22	189.81	0.43
1:L:509:HIS:HB3	1:L:514:ASP:OD1	2.19	0.43
1:M:382:ASN:CG	1:M:383:GLY:H	2.22	0.43
1:M:552:VAL:CG2	1:M:556:LYS:HD2	2.49	0.43
1:M:592:THR:HG22	1:M:593:ALA:N	2.34	0.43
1:M:686:LEU:HD12	1:M:686:LEU:O	2.18	0.43
1:N:620:LYS:HD3	1:N:642:PRO:CD	2.49	0.43
1:N:686:LEU:HD12	1:N:686:LEU:O	2.18	0.43
1:O:287:PHE:HE1	1:O:684:TRP:HH2	1.65	0.43
1:Q:466:GLY:N	1:Q:473:GLN:HE22	2.17	0.43
1:Q:552:VAL:CG2	1:Q:556:LYS:HD2	2.49	0.43
1:Q:592:THR:HG22	1:Q:593:ALA:N	2.34	0.43
1:Q:611:VAL:O	1:Q:727:GLY:HA2	2.18	0.43
1:R:620:LYS:HD3	1:R:642:PRO:CD	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:611:VAL:O	1:R:727:GLY:HA2	2.19	0.43
1:R:692:LYS:HG2	1:S:398:PHE:CE1	2.54	0.43
1:S:509:HIS:HB3	1:S:514:ASP:OD1	2.19	0.43
1:S:686:LEU:O	1:S:686:LEU:HD12	2.18	0.43
1:T:466:GLY:N	1:T:473:GLN:HE22	2.16	0.43
1:T:611:VAL:O	1:T:727:GLY:HA2	2.19	0.43
1:T:621:ILE:HG22	1:V:477:TRP:CH2	97.04	0.43
1:U:555:GLU:OE1	1:U:555:GLU:N	2.46	0.43
1:U:592:THR:HG22	1:U:593:ALA:N	2.34	0.43
1:V:352:TYR:CZ	1:V:354:LEU:HD13	2.53	0.43
1:V:397:TYR:HB3	1:V:398:PHE:CD1	2.53	0.43
1:V:545:GLN:HA	1:V:546:GLY:HA2	1.77	0.43
1:V:611:VAL:O	1:V:727:GLY:HA2	2.19	0.43
1:W:382:ASN:CG	1:W:383:GLY:H	2.22	0.43
1:W:466:GLY:N	1:W:473:GLN:HE22	2.16	0.43
1:W:611:VAL:O	1:W:727:GLY:HA2	2.19	0.43
1:V:621:ILE:HG22	1:X:477:TRP:CH2	2.53	0.43
1:X:611:VAL:O	1:X:727:GLY:HA2	2.19	0.43
1:Y:509:HIS:HB3	1:Y:514:ASP:OD1	2.18	0.43
1:Y:611:VAL:O	1:Y:727:GLY:HA2	2.19	0.43
1:Y:620:LYS:HD3	1:Y:642:PRO:CD	2.49	0.43
1:H:398:PHE:CE1	1:Y:692:LYS:HG2	2.54	0.43
1:Z:397:TYR:HB3	1:Z:398:PHE:CD1	2.53	0.43
1:1:397:TYR:HB3	1:1:398:PHE:CD1	2.53	0.43
1:1:466:GLY:N	1:1:473:GLN:HE22	2.17	0.43
1:2:344:THR:HB	1:2:646:ILE:HG22	2.00	0.43
1:2:352:TYR:CZ	1:2:354:LEU:HD13	2.54	0.43
1:2:433:LEU:HD13	1:2:433:LEU:O	2.19	0.43
1:2:611:VAL:O	1:2:727:GLY:HA2	2.19	0.43
1:3:375:TYR:CG	1:3:376:GLY:N	2.86	0.43
1:3:378:LEU:HD23	1:3:378:LEU:HA	1.75	0.43
1:3:439:ASP:CB	1:3:466:GLY:HA3	2.48	0.43
1:3:466:GLY:N	1:3:473:GLN:HE22	2.17	0.43
1:3:612:TYR:HD1	1:3:727:GLY:HA3	1.82	0.43
1:3:640:LYS:HE3	1:3:641:HIS:NE2	2.34	0.43
1:3:287:PHE:HE1	1:3:684:TRP:HH2	1.66	0.43
1:4:352:TYR:CZ	1:4:354:LEU:HD13	2.54	0.43
1:4:560:THR:HG21	1:4:612:TYR:CZ	2.52	0.43
1:Z:386:ALA:O	1:4:706:LYS:HD2	87.01	0.43
1:5:592:THR:HG22	1:5:593:ALA:N	2.34	0.43
1:5:348:TYR:OH	1:5:642:PRO:O	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:429:SER:OG	1:A:431:ASP:OD1	2.18	0.43
1:A:592:THR:HG22	1:A:593:ALA:N	2.34	0.43
1:B:477:TRP:CH2	1:M:621:ILE:HG22	98.88	0.43
1:B:640:LYS:HE3	1:B:641:HIS:NE2	2.34	0.43
1:C:342:VAL:HG13	1:C:343:PHE:N	2.31	0.43
1:C:391:SER:HA	1:P:693:ARG:NH1	55.16	0.43
1:C:545:GLN:HA	1:C:546:GLY:HA2	1.77	0.43
1:C:552:VAL:CG2	1:C:556:LYS:HD2	2.49	0.43
1:C:714:VAL:HG21	1:C:718:GLY:HA2	2.01	0.43
1:D:477:TRP:CH2	1:N:621:ILE:HG22	2.53	0.43
1:D:509:HIS:HB3	1:D:514:ASP:OD1	2.18	0.43
1:D:552:VAL:CG2	1:D:556:LYS:HD2	2.49	0.43
1:D:611:VAL:O	1:D:727:GLY:HA2	2.19	0.43
1:D:640:LYS:HE3	1:D:641:HIS:NE2	2.34	0.43
1:E:314:LYS:HB2	1:E:679:SER:HB3	2.00	0.43
1:E:397:TYR:HB3	1:E:398:PHE:CD1	2.53	0.43
1:E:466:GLY:N	1:E:473:GLN:HE22	2.16	0.43
1:E:477:TRP:CH2	1:X:621:ILE:HG22	130.35	0.43
1:F:496:ASN:HA	1:Q:586:GLY:O	2.19	0.43
1:F:497:ASN:CB	1:F:498:SER:HA	2.45	0.43
1:F:692:LYS:HG2	1:H:398:PHE:CE1	112.66	0.43
1:F:621:ILE:HG22	1:G:477:TRP:CH2	80.52	0.43
1:H:352:TYR:CZ	1:H:354:LEU:HD13	2.54	0.43
1:H:466:GLY:N	1:H:473:GLN:HE22	2.17	0.43
1:I:382:ASN:CG	1:I:383:GLY:H	2.22	0.43
1:I:592:THR:HG22	1:I:593:ALA:H	1.83	0.43
1:I:621:ILE:HG22	1:K:477:TRP:CH2	97.04	0.43
1:I:714:VAL:HG21	1:I:718:GLY:HA2	2.01	0.43
1:J:477:TRP:CH2	1:K:621:ILE:HG22	60.25	0.43
1:J:692:LYS:HG2	1:K:398:PHE:CE1	41.78	0.43
1:K:277:THR:CG2	1:K:375:TYR:HB3	2.48	0.43
1:K:640:LYS:HE3	1:K:641:HIS:NE2	2.34	0.43
1:L:348:TYR:OH	1:L:642:PRO:O	2.30	0.43
1:M:611:VAL:O	1:M:727:GLY:HA2	2.19	0.43
1:N:342:VAL:HG13	1:N:343:PHE:N	2.31	0.43
1:N:352:TYR:CZ	1:N:354:LEU:HD13	2.54	0.43
1:N:382:ASN:CG	1:N:383:GLY:H	2.22	0.43
1:N:592:THR:HG22	1:N:593:ALA:N	2.34	0.43
1:N:711:ASP:HB2	1:N:723:PRO:HD2	1.99	0.43
1:O:466:GLY:N	1:O:473:GLN:HE22	2.17	0.43
1:O:497:ASN:CB	1:O:498:SER:HA	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:592:THR:HG22	1:O:593:ALA:N	2.34	0.43
1:O:613:LEU:HD23	1:O:726:ILE:HB	2.00	0.43
1:O:640:LYS:HE3	1:O:641:HIS:NE2	2.34	0.43
1:P:552:VAL:CG2	1:P:556:LYS:HD2	2.49	0.43
1:Q:477:TRP:CH2	1:R:621:ILE:HG22	60.25	0.43
1:R:552:VAL:CG2	1:R:556:LYS:HD2	2.49	0.43
1:S:352:TYR:CZ	1:S:354:LEU:HD13	2.54	0.43
1:S:552:VAL:CG2	1:S:556:LYS:HD2	2.49	0.43
1:T:277:THR:CG2	1:T:375:TYR:HB3	2.48	0.43
1:T:397:TYR:HB3	1:T:398:PHE:CD1	2.53	0.43
1:T:398:PHE:CE1	1:V:692:LYS:HG2	68.34	0.43
1:T:620:LYS:HD3	1:T:642:PRO:CD	2.49	0.43
1:U:352:TYR:CZ	1:U:354:LEU:HD13	2.54	0.43
1:S:477:TRP:CH2	1:U:621:ILE:HG22	2.54	0.43
1:V:354:LEU:O	1:V:356:SER:N	2.47	0.43
1:V:382:ASN:CG	1:V:383:GLY:H	2.22	0.43
1:W:314:LYS:HB2	1:W:679:SER:HB3	2.00	0.43
1:W:378:LEU:O	1:W:379:THR:OG1	2.26	0.43
1:W:552:VAL:CG2	1:W:556:LYS:HD2	2.49	0.43
1:W:421:HIS:HB2	1:W:637:PHE:CE1	2.54	0.43
1:W:692:LYS:HG2	1:Y:398:PHE:CE1	2.54	0.43
1:X:466:GLY:N	1:X:473:GLN:HE22	2.17	0.43
1:X:640:LYS:HE3	1:X:641:HIS:NE2	2.34	0.43
1:Y:552:VAL:CG2	1:Y:556:LYS:HD2	2.49	0.43
1:Z:352:TYR:CZ	1:Z:354:LEU:HD13	2.53	0.43
1:Z:640:LYS:HE3	1:Z:641:HIS:NE2	2.34	0.43
1:1:382:ASN:CG	1:1:383:GLY:H	2.22	0.43
1:1:433:LEU:O	1:1:433:LEU:HD13	2.19	0.43
1:1:592:THR:HG22	1:1:593:ALA:N	2.34	0.43
1:1:611:VAL:O	1:1:727:GLY:HA2	2.19	0.43
1:2:382:ASN:CG	1:2:383:GLY:H	2.22	0.43
1:2:509:HIS:HB3	1:2:514:ASP:OD1	2.19	0.43
1:Z:398:PHE:CE1	1:3:692:LYS:HG2	2.54	0.43
1:4:382:ASN:CG	1:4:383:GLY:H	2.22	0.43
1:3:621:ILE:HG22	1:4:477:TRP:CH2	2.54	0.43
1:4:686:LEU:O	1:4:686:LEU:HD12	2.18	0.43
1:5:509:HIS:HB3	1:5:514:ASP:OD1	2.19	0.43
1:5:552:VAL:CG2	1:5:556:LYS:HD2	2.49	0.43
1:6:509:HIS:HB3	1:6:514:ASP:OD1	2.19	0.43
1:8:352:TYR:CZ	1:8:354:LEU:HD13	2.54	0.43
1:A:692:LYS:HG2	1:8:398:PHE:CE1	147.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:398:PHE:CE1	1:8:692:LYS:HG2	2.54	0.43
1:5:386:ALA:O	1:8:706:LYS:HD2	2.17	0.43
1:A:244:THR:O	1:A:245:ARG:NH1	2.40	0.43
1:A:509:HIS:HB3	1:A:514:ASP:OD1	2.19	0.43
1:A:621:ILE:HG22	1:K:477:TRP:CH2	111.20	0.43
1:B:477:TRP:CH2	1:J:621:ILE:HG22	2.54	0.43
1:B:555:GLU:OE1	1:B:555:GLU:N	2.46	0.43
1:C:382:ASN:CG	1:C:383:GLY:H	2.22	0.43
1:D:277:THR:CG2	1:D:375:TYR:HB3	2.48	0.43
1:F:382:ASN:CG	1:F:383:GLY:H	2.22	0.43
1:F:509:HIS:HB3	1:F:514:ASP:OD1	2.18	0.43
1:F:621:ILE:HG22	1:Q:477:TRP:CH2	2.53	0.43
1:H:477:TRP:CH2	1:W:621:ILE:HG22	2.54	0.43
1:G:496:ASN:HA	1:H:586:GLY:O	84.39	0.43
1:I:433:LEU:O	1:I:433:LEU:HD13	2.19	0.43
1:I:496:ASN:HA	1:K:586:GLY:O	135.80	0.43
1:B:692:LYS:HG2	1:J:398:PHE:CE1	2.54	0.43
1:I:586:GLY:O	1:J:496:ASN:HA	115.45	0.43
1:J:714:VAL:HG21	1:J:718:GLY:HA2	2.01	0.43
1:K:466:GLY:N	1:K:473:GLN:HE22	2.17	0.43
1:K:552:VAL:CG2	1:K:556:LYS:HD2	2.49	0.43
1:L:466:GLY:N	1:L:473:GLN:HE22	2.16	0.43
1:L:532:LYS:HE2	1:L:533:PHE:CZ	2.53	0.43
1:L:555:GLU:N	1:L:555:GLU:OE1	2.46	0.43
1:L:620:LYS:HD3	1:L:642:PRO:CD	2.49	0.43
1:L:640:LYS:HE3	1:L:641:HIS:NE2	2.34	0.43
1:L:611:VAL:O	1:L:727:GLY:HA2	2.19	0.43
1:M:714:VAL:HG21	1:M:718:GLY:HA2	2.01	0.43
1:M:398:PHE:CE1	1:O:692:LYS:HG2	68.33	0.43
1:Q:497:ASN:CB	1:Q:498:SER:HA	2.45	0.43
1:Q:509:HIS:HB3	1:Q:514:ASP:OD1	2.18	0.43
1:Q:592:THR:HG22	1:Q:593:ALA:H	1.83	0.43
1:R:352:TYR:CZ	1:R:354:LEU:HD13	2.53	0.43
1:R:433:LEU:O	1:R:433:LEU:HD13	2.19	0.43
1:R:496:ASN:HA	1:U:586:GLY:O	2.19	0.43
1:R:592:THR:HG22	1:R:593:ALA:H	1.83	0.43
1:R:714:VAL:HG21	1:R:718:GLY:HA2	2.01	0.43
1:T:382:ASN:CG	1:T:383:GLY:H	2.22	0.43
1:T:433:LEU:HD13	1:T:433:LEU:O	2.19	0.43
1:R:621:ILE:HG22	1:U:477:TRP:CH2	2.53	0.43
1:U:477:TRP:CH2	1:V:621:ILE:HG22	60.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:433:LEU:HD13	1:V:433:LEU:O	2.19	0.43
1:E:621:ILE:HG22	1:V:477:TRP:CH2	130.78	0.43
1:W:592:THR:HG22	1:W:593:ALA:H	1.83	0.43
1:X:342:VAL:HG13	1:X:343:PHE:N	2.31	0.43
1:Y:433:LEU:HD13	1:Y:433:LEU:O	2.19	0.43
1:Y:714:VAL:HG21	1:Y:718:GLY:HA2	2.01	0.43
1:Z:620:LYS:HD3	1:Z:642:PRO:CD	2.49	0.43
1:1:277:THR:CG2	1:1:375:TYR:HB3	2.48	0.43
1:1:640:LYS:HE3	1:1:641:HIS:NE2	2.34	0.43
1:2:552:VAL:CG2	1:2:556:LYS:HD2	2.49	0.43
1:Z:398:PHE:CE1	1:2:692:LYS:HG2	76.92	0.43
1:3:497:ASN:CB	1:3:498:SER:HA	2.45	0.43
1:3:592:THR:HG22	1:3:593:ALA:N	2.34	0.43
1:4:711:ASP:HB2	1:4:723:PRO:HD2	1.99	0.43
1:4:714:VAL:HG21	1:4:718:GLY:HA2	2.01	0.43
1:5:496:ASN:HA	1:7:586:GLY:O	2.19	0.43
1:7:314:LYS:HB2	1:7:679:SER:HB3	2.00	0.43
1:7:433:LEU:HD13	1:7:433:LEU:O	2.19	0.43
1:8:552:VAL:CG2	1:8:556:LYS:HD2	2.49	0.43
1:8:640:LYS:HE3	1:8:641:HIS:NE2	2.34	0.43
1:A:611:VAL:O	1:A:727:GLY:HA2	2.19	0.43
1:B:443:TYR:CE1	1:B:464:GLN:HB2	2.52	0.43
1:B:692:LYS:HG2	1:M:398:PHE:CE1	124.34	0.43
1:C:433:LEU:O	1:C:433:LEU:HD13	2.19	0.43
1:C:640:LYS:HE3	1:C:641:HIS:NE2	2.34	0.43
1:D:382:ASN:CG	1:D:383:GLY:H	2.22	0.43
1:D:433:LEU:O	1:D:433:LEU:HD13	2.19	0.43
1:E:287:PHE:HE1	1:E:684:TRP:HH2	1.66	0.43
1:E:714:VAL:HG21	1:E:718:GLY:HA2	2.01	0.43
1:F:477:TRP:CH2	1:H:621:ILE:HG22	121.32	0.43
1:F:620:LYS:HD3	1:F:642:PRO:CD	2.49	0.43
1:F:714:VAL:HG21	1:F:718:GLY:HA2	2.01	0.43
1:G:382:ASN:CG	1:G:383:GLY:H	2.22	0.43
1:G:397:TYR:HB3	1:G:398:PHE:CD1	2.53	0.43
1:G:433:LEU:HD13	1:G:433:LEU:O	2.19	0.43
1:A:462:PHE:CD2	1:G:557:VAL:HG11	2.53	0.43
1:H:497:ASN:CB	1:H:498:SER:HA	2.45	0.43
1:H:552:VAL:CG2	1:H:556:LYS:HD2	2.49	0.43
1:H:421:HIS:HB2	1:H:637:PHE:CE1	2.54	0.43
1:J:421:HIS:HB2	1:J:637:PHE:CE1	2.54	0.43
1:L:382:ASN:CG	1:L:383:GLY:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:714:VAL:HG21	1:L:718:GLY:HA2	2.01	0.43
1:M:352:TYR:CZ	1:M:354:LEU:HD13	2.53	0.43
1:M:421:HIS:HB2	1:M:637:PHE:CE1	2.54	0.43
1:M:640:LYS:HE3	1:M:641:HIS:NE2	2.34	0.43
1:N:277:THR:CG2	1:N:375:TYR:HB3	2.48	0.43
1:M:692:LYS:HG2	1:N:398:PHE:CE1	37.22	0.43
1:N:640:LYS:HE3	1:N:641:HIS:NE2	2.34	0.43
1:N:692:LYS:HG2	1:P:398:PHE:CE1	2.54	0.43
1:N:714:VAL:HG21	1:N:718:GLY:HA2	2.01	0.43
1:O:611:VAL:O	1:O:727:GLY:HA2	2.19	0.43
1:P:509:HIS:HB3	1:P:514:ASP:OD1	2.19	0.43
1:D:398:PHE:CE1	1:P:692:LYS:HG2	2.54	0.43
1:Q:547:SER:HG	1:S:443:TYR:HH	96.73	0.43
1:R:277:THR:CG2	1:R:375:TYR:HB3	2.48	0.43
1:Q:692:LYS:HG2	1:R:398:PHE:CE1	41.78	0.43
1:R:398:PHE:CE1	1:U:692:LYS:HG2	2.54	0.43
1:S:433:LEU:HD13	1:S:433:LEU:O	2.19	0.43
1:S:592:THR:HG22	1:S:593:ALA:H	1.83	0.43
1:S:421:HIS:HB2	1:S:637:PHE:CE1	2.54	0.43
1:S:640:LYS:HE3	1:S:641:HIS:NE2	2.34	0.43
1:U:509:HIS:HB3	1:U:514:ASP:OD1	2.18	0.43
1:U:640:LYS:HE3	1:U:641:HIS:NE2	2.34	0.43
1:V:640:LYS:HE3	1:V:641:HIS:NE2	2.34	0.43
1:X:552:VAL:CG2	1:X:556:LYS:HD2	2.49	0.43
1:Y:352:TYR:CZ	1:Y:354:LEU:HD13	2.53	0.43
1:Y:640:LYS:HE3	1:Y:641:HIS:NE2	2.34	0.43
1:Z:382:ASN:CG	1:Z:383:GLY:H	2.22	0.43
1:Z:714:VAL:HG21	1:Z:718:GLY:HA2	2.01	0.43
1:1:477:TRP:CH2	1:2:621:ILE:HG22	2.54	0.43
1:Z:449:ASN:HB2	1:1:498:SER:C	103.34	0.43
1:2:714:VAL:HG21	1:2:718:GLY:HA2	2.01	0.43
1:3:496:ASN:HA	1:4:586:GLY:O	2.19	0.43
1:3:545:GLN:HA	1:3:546:GLY:HA2	1.77	0.43
1:4:397:TYR:HB3	1:4:398:PHE:CD1	2.53	0.43
1:4:640:LYS:HE3	1:4:641:HIS:NE2	2.34	0.43
1:5:375:TYR:CG	1:5:376:GLY:N	2.86	0.43
1:5:477:TRP:CH2	1:6:621:ILE:HG22	2.53	0.43
1:6:497:ASN:CB	1:6:498:SER:HA	2.45	0.43
1:7:344:THR:HB	1:7:646:ILE:HG22	2.00	0.43
1:7:466:GLY:N	1:7:473:GLN:HE22	2.16	0.43
1:8:382:ASN:CG	1:8:383:GLY:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:365:PHE:HA	1:A:366:PRO:HD3	1.91	0.43
1:A:339:THR:HG22	1:A:404:ARG:HG2	2.01	0.43
1:A:348:TYR:OH	1:A:642:PRO:O	2.30	0.43
1:A:714:VAL:HG21	1:A:718:GLY:HA2	2.01	0.43
1:B:552:VAL:CG2	1:B:556:LYS:HD2	2.49	0.43
1:C:287:PHE:HE1	1:C:684:TRP:HH2	1.65	0.43
1:C:421:HIS:HB2	1:C:637:PHE:CE1	2.54	0.43
1:C:592:THR:HG22	1:C:593:ALA:N	2.34	0.43
1:D:557:VAL:HG11	1:T:462:PHE:CD2	145.71	0.43
1:E:352:TYR:CZ	1:E:354:LEU:HD13	2.53	0.43
1:E:433:LEU:O	1:E:433:LEU:HD13	2.19	0.43
1:E:555:GLU:N	1:E:555:GLU:OE1	2.46	0.43
1:E:586:GLY:O	1:Q:496:ASN:HA	2.19	0.43
1:G:592:THR:HG22	1:G:593:ALA:N	2.34	0.43
1:H:555:GLU:N	1:H:555:GLU:OE1	2.46	0.43
1:I:244:THR:O	1:I:245:ARG:NH1	2.40	0.43
1:I:421:HIS:HB2	1:I:637:PHE:CE1	2.54	0.43
1:I:640:LYS:HE3	1:I:641:HIS:NE2	2.34	0.43
1:I:692:LYS:HG2	1:J:398:PHE:CE1	37.21	0.43
1:K:314:LYS:HB2	1:K:679:SER:HB3	2.00	0.43
1:K:421:HIS:HB2	1:K:637:PHE:CE1	2.54	0.43
1:L:375:TYR:CG	1:L:376:GLY:N	2.86	0.43
1:L:552:VAL:CG2	1:L:556:LYS:HD2	2.49	0.43
1:M:497:ASN:CB	1:M:498:SER:HA	2.45	0.43
1:M:608:ASP:HB3	1:M:609:ARG:H	1.53	0.43
1:N:339:THR:HG22	1:N:404:ARG:HG2	2.01	0.43
1:O:421:HIS:HB2	1:O:637:PHE:CE1	2.54	0.43
1:P:382:ASN:CG	1:P:383:GLY:H	2.22	0.43
1:P:640:LYS:HE3	1:P:641:HIS:NE2	2.34	0.43
1:Q:352:TYR:CZ	1:Q:354:LEU:HD13	2.54	0.43
1:Q:375:TYR:CG	1:Q:376:GLY:N	2.86	0.43
1:Q:433:LEU:HD13	1:Q:433:LEU:O	2.19	0.43
1:Q:421:HIS:HB2	1:Q:637:PHE:CE1	2.54	0.43
1:R:466:GLY:N	1:R:473:GLN:HE22	2.16	0.43
1:R:421:HIS:HB2	1:R:637:PHE:CE1	2.54	0.43
1:S:314:LYS:HB3	1:S:314:LYS:HE3	1.85	0.43
1:S:466:GLY:N	1:S:473:GLN:HE22	2.17	0.43
1:U:421:HIS:HB2	1:U:637:PHE:CE1	2.54	0.43
1:V:398:PHE:CE1	1:X:692:LYS:HG2	2.54	0.43
1:W:714:VAL:HG21	1:W:718:GLY:HA2	2.01	0.43
1:X:382:ASN:CG	1:X:383:GLY:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:497:ASN:CB	1:X:498:SER:HA	2.45	0.43
1:X:592:THR:HG22	1:X:593:ALA:N	2.34	0.43
1:Y:378:LEU:HD23	1:Y:378:LEU:HA	1.75	0.43
1:Y:466:GLY:N	1:Y:473:GLN:HE22	2.17	0.43
1:Y:421:HIS:HB2	1:Y:637:PHE:CE1	2.54	0.43
1:Z:608:ASP:HB3	1:Z:609:ARG:H	1.53	0.43
1:Z:477:TRP:CH2	1:1:621:ILE:HG22	80.63	0.43
1:2:446:SER:OG	1:2:447:ARG:N	2.52	0.43
1:3:421:HIS:HB2	1:3:637:PHE:CE1	2.54	0.43
1:4:277:THR:CG2	1:4:375:TYR:HB3	2.48	0.43
1:4:552:VAL:CG2	1:4:556:LYS:HD2	2.49	0.43
1:4:592:THR:HG22	1:4:593:ALA:N	2.34	0.43
1:5:352:TYR:CZ	1:5:354:LEU:HD13	2.53	0.43
1:5:433:LEU:HD13	1:5:433:LEU:O	2.19	0.43
1:5:592:THR:HG22	1:5:593:ALA:H	1.83	0.43
1:6:592:THR:HG22	1:6:593:ALA:N	2.34	0.43
1:7:421:HIS:HB2	1:7:637:PHE:CE1	2.54	0.43
1:7:611:VAL:O	1:7:727:GLY:HA2	2.19	0.43
1:8:509:HIS:HB3	1:8:514:ASP:OD1	2.19	0.43
1:8:714:VAL:HG21	1:8:718:GLY:HA2	2.01	0.43
1:A:352:TYR:CZ	1:A:354:LEU:HD13	2.54	0.43
1:A:398:PHE:CE1	1:K:692:LYS:HG2	76.78	0.43
1:A:421:HIS:HB2	1:A:637:PHE:CE1	2.54	0.43
1:B:277:THR:CG2	1:B:375:TYR:HB3	2.48	0.43
1:B:382:ASN:CG	1:B:383:GLY:H	2.22	0.43
1:B:466:GLY:N	1:B:473:GLN:HE22	2.17	0.43
1:B:592:THR:HG22	1:B:593:ALA:N	2.34	0.43
1:D:421:HIS:HB2	1:D:637:PHE:CE1	2.54	0.43
1:D:714:VAL:HG21	1:D:718:GLY:HA2	2.01	0.43
1:E:398:PHE:CE1	1:V:692:LYS:HG2	124.68	0.43
1:E:592:THR:HG22	1:E:593:ALA:H	1.83	0.43
1:F:433:LEU:O	1:F:433:LEU:HD13	2.19	0.43
1:G:421:HIS:HB2	1:G:637:PHE:CE1	2.54	0.43
1:G:640:LYS:HE3	1:G:641:HIS:NE2	2.34	0.43
1:F:398:PHE:CE1	1:G:692:LYS:HG2	92.29	0.43
1:H:433:LEU:O	1:H:433:LEU:HD13	2.19	0.43
1:H:592:THR:HG22	1:H:593:ALA:N	2.34	0.43
1:H:640:LYS:HE3	1:H:641:HIS:NE2	2.34	0.43
1:H:698:ILE:O	1:K:701:THR:OG1	114.68	0.43
1:G:477:TRP:CH2	1:I:621:ILE:HG22	2.54	0.43
1:I:651:THR:HA	1:I:652:PRO:HD3	1.92	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:620:LYS:HD3	1:J:642:PRO:CD	2.49	0.43
1:K:497:ASN:CB	1:K:498:SER:HA	2.45	0.43
1:K:592:THR:HG22	1:K:593:ALA:N	2.34	0.43
1:L:433:LEU:HD13	1:L:433:LEU:O	2.19	0.43
1:M:555:GLU:OE1	1:M:555:GLU:N	2.46	0.43
1:Q:339:THR:HG22	1:Q:404:ARG:HG2	2.01	0.43
1:Q:640:LYS:HE3	1:Q:641:HIS:NE2	2.34	0.43
1:R:640:LYS:HE3	1:R:641:HIS:NE2	2.34	0.43
1:Q:557:VAL:HG11	1:S:462:PHE:CD2	95.21	0.43
1:T:586:GLY:O	1:U:496:ASN:HA	115.45	0.43
1:T:640:LYS:HE3	1:T:641:HIS:NE2	2.34	0.43
1:U:348:TYR:OH	1:U:642:PRO:O	2.30	0.43
1:V:466:GLY:N	1:V:473:GLN:HE22	2.16	0.43
1:V:509:HIS:HB3	1:V:514:ASP:OD1	2.19	0.43
1:V:421:HIS:HB2	1:V:637:PHE:CE1	2.54	0.43
1:W:592:THR:HG22	1:W:593:ALA:N	2.34	0.43
1:W:621:ILE:HG22	1:Y:477:TRP:CH2	24.01	0.43
1:W:692:LYS:HG2	1:X:398:PHE:CE1	41.78	0.43
1:X:354:LEU:O	1:X:356:SER:N	2.47	0.43
1:Y:325:GLN:NE2	1:Y:330:THR:HG22	2.34	0.43
1:Y:277:THR:CG2	1:Y:375:TYR:HB3	2.48	0.43
1:Z:586:GLY:O	1:4:496:ASN:HA	2.19	0.43
1:2:466:GLY:N	1:2:473:GLN:HE22	2.16	0.42
1:3:317:ASN:HB3	1:3:677:GLN:HG2	1.99	0.42
1:3:446:SER:OG	1:3:447:ARG:N	2.52	0.42
1:3:611:VAL:O	1:3:727:GLY:HA2	2.19	0.42
1:3:398:PHE:CE1	1:4:692:LYS:HG2	2.54	0.42
1:5:339:THR:HG22	1:5:404:ARG:HG2	2.01	0.42
1:5:466:GLY:N	1:5:473:GLN:HE22	2.16	0.42
1:5:640:LYS:HE3	1:5:641:HIS:NE2	2.34	0.42
1:6:686:LEU:O	1:6:686:LEU:HD12	2.18	0.42
1:7:640:LYS:HE3	1:7:641:HIS:NE2	2.34	0.42
1:8:592:THR:HG22	1:8:593:ALA:H	1.83	0.42
1:A:446:SER:OG	1:A:447:ARG:N	2.52	0.42
1:C:270:ASN:OD1	1:P:471:ARG:HD3	61.38	0.42
1:C:446:SER:OG	1:C:447:ARG:N	2.52	0.42
1:D:446:SER:OG	1:D:447:ARG:N	2.52	0.42
1:D:466:GLY:N	1:D:473:GLN:HE22	2.17	0.42
1:D:545:GLN:HA	1:D:546:GLY:HA2	1.77	0.42
1:D:592:THR:HG22	1:D:593:ALA:N	2.34	0.42
1:D:620:LYS:HD3	1:D:642:PRO:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:692:LYS:HG2	1:N:398:PHE:CE1	2.54	0.42
1:E:552:VAL:CG2	1:E:556:LYS:HD2	2.49	0.42
1:E:421:HIS:HB2	1:E:637:PHE:CE1	2.54	0.42
1:E:640:LYS:HE3	1:E:641:HIS:NE2	2.34	0.42
1:G:339:THR:HG22	1:G:404:ARG:HG2	2.01	0.42
1:H:344:THR:HB	1:H:646:ILE:HG22	2.00	0.42
1:H:382:ASN:CG	1:H:383:GLY:H	2.22	0.42
1:H:339:THR:HG22	1:H:404:ARG:HG2	2.01	0.42
1:G:398:PHE:CE1	1:H:692:LYS:HG2	41.78	0.42
1:I:545:GLN:HA	1:I:546:GLY:HA2	1.77	0.42
1:I:592:THR:HG22	1:I:593:ALA:N	2.34	0.42
1:J:433:LEU:O	1:J:433:LEU:HD13	2.19	0.42
1:J:555:GLU:N	1:J:555:GLU:OE1	2.46	0.42
1:K:314:LYS:HE3	1:K:314:LYS:HB3	1.85	0.42
1:K:339:THR:HG22	1:K:404:ARG:HG2	2.01	0.42
1:K:352:TYR:CZ	1:K:354:LEU:HD13	2.54	0.42
1:K:382:ASN:CG	1:K:383:GLY:H	2.22	0.42
1:K:446:SER:OG	1:K:447:ARG:N	2.52	0.42
1:I:398:PHE:CE1	1:K:692:LYS:HG2	68.34	0.42
1:M:433:LEU:HD13	1:M:433:LEU:O	2.19	0.42
1:N:446:SER:OG	1:N:447:ARG:N	2.52	0.42
1:N:608:ASP:HB3	1:N:609:ARG:H	1.53	0.42
1:O:446:SER:OG	1:O:447:ARG:N	2.52	0.42
1:C:449:ASN:HB2	1:O:498:SER:C	169.84	0.42
1:P:339:THR:HG22	1:P:404:ARG:HG2	2.01	0.42
1:P:368:ASP:HB3	1:Q:665:LYS:HD2	2.05	0.42
1:P:421:HIS:HB2	1:P:637:PHE:CE1	2.54	0.42
1:P:714:VAL:HG21	1:P:718:GLY:HA2	2.01	0.42
1:Q:277:THR:CG2	1:Q:375:TYR:HB3	2.48	0.42
1:Q:620:LYS:HD3	1:Q:642:PRO:CD	2.49	0.42
1:Q:714:VAL:HG21	1:Q:718:GLY:HA2	2.01	0.42
1:R:325:GLN:NE2	1:R:330:THR:HG22	2.34	0.42
1:R:446:SER:OG	1:R:447:ARG:N	2.52	0.42
1:S:339:THR:HG22	1:S:404:ARG:HG2	2.01	0.42
1:R:586:GLY:O	1:S:496:ASN:HA	2.19	0.42
1:S:592:THR:HG22	1:S:593:ALA:N	2.34	0.42
1:S:348:TYR:OH	1:S:642:PRO:O	2.30	0.42
1:D:498:SER:C	1:T:449:ASN:HB2	156.20	0.42
1:U:339:THR:HG22	1:U:404:ARG:HG2	2.01	0.42
1:U:433:LEU:HD13	1:U:433:LEU:O	2.19	0.42
1:U:581:THR:OG1	1:U:592:THR:O	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:586:GLY:O	1:V:496:ASN:HA	84.40	0.42
1:W:352:TYR:CZ	1:W:354:LEU:HD13	2.54	0.42
1:W:433:LEU:HD13	1:W:433:LEU:O	2.19	0.42
1:W:497:ASN:CB	1:W:498:SER:HA	2.45	0.42
1:W:555:GLU:OE1	1:W:555:GLU:N	2.46	0.42
1:W:640:LYS:HE3	1:W:641:HIS:NE2	2.34	0.42
1:X:692:LYS:HG2	1:Y:398:PHE:CE1	37.22	0.42
1:Y:446:SER:OG	1:Y:447:ARG:N	2.52	0.42
1:W:586:GLY:O	1:Y:496:ASN:HA	2.19	0.42
1:Z:552:VAL:CG2	1:Z:556:LYS:HD2	2.49	0.42
1:1:692:LYS:HG2	1:2:398:PHE:CE1	2.53	0.42
1:2:449:ASN:O	1:2:450:THR:OG1	2.20	0.42
1:2:592:THR:HG22	1:2:593:ALA:N	2.34	0.42
1:2:640:LYS:HE3	1:2:641:HIS:NE2	2.34	0.42
1:3:277:THR:CG2	1:3:375:TYR:HB3	2.48	0.42
1:Z:492:SER:OG	1:3:458:SER:OG	2.31	0.42
1:5:620:LYS:HD3	1:5:642:PRO:CD	2.49	0.42
1:5:692:LYS:HG2	1:6:398:PHE:CE1	2.54	0.42
1:6:342:VAL:HG13	1:6:343:PHE:N	2.31	0.42
1:6:352:TYR:CZ	1:6:354:LEU:HD13	2.53	0.42
1:6:382:ASN:CG	1:6:383:GLY:H	2.22	0.42
1:7:378:LEU:HD23	1:7:378:LEU:HA	1.75	0.42
1:7:382:ASN:CG	1:7:383:GLY:H	2.22	0.42
1:A:586:GLY:O	1:8:496:ASN:HA	186.15	0.42
1:A:382:ASN:CG	1:A:383:GLY:H	2.22	0.42
1:A:477:TRP:CH2	1:G:621:ILE:HG22	2.54	0.42
1:C:473:GLN:O	1:C:475:ARG:HG3	2.20	0.42
1:C:651:THR:HA	1:C:652:PRO:HD3	1.92	0.42
1:E:339:THR:HG22	1:E:404:ARG:HG2	2.01	0.42
1:E:545:GLN:HA	1:E:546:GLY:HA2	1.77	0.42
1:E:716:THR:HG23	1:E:717:ASN:N	2.35	0.42
1:F:352:TYR:CZ	1:F:354:LEU:HD13	2.54	0.42
1:G:449:ASN:HB2	1:I:498:SER:C	2.39	0.42
1:G:714:VAL:HG21	1:G:718:GLY:HA2	2.01	0.42
1:H:586:GLY:O	1:W:496:ASN:HA	2.19	0.42
1:J:339:THR:HG22	1:J:404:ARG:HG2	2.01	0.42
1:J:352:TYR:CZ	1:J:354:LEU:HD13	2.54	0.42
1:J:716:THR:HG23	1:J:717:ASN:N	2.35	0.42
1:K:433:LEU:HD13	1:K:433:LEU:O	2.19	0.42
1:K:620:LYS:HD3	1:K:642:PRO:CD	2.49	0.42
1:L:314:LYS:HB2	1:L:679:SER:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:325:GLN:NE2	1:L:330:THR:HG22	2.34	0.42
1:L:446:SER:OG	1:L:447:ARG:N	2.52	0.42
1:D:462:PHE:CD2	1:L:557:VAL:HG11	146.66	0.42
1:L:716:THR:HG23	1:L:717:ASN:N	2.35	0.42
1:M:339:THR:HG22	1:M:404:ARG:HG2	2.01	0.42
1:N:421:HIS:HB2	1:N:637:PHE:CE1	2.54	0.42
1:O:433:LEU:HD13	1:O:433:LEU:O	2.19	0.42
1:P:592:THR:HG22	1:P:593:ALA:H	1.83	0.42
1:T:314:LYS:HB2	1:T:679:SER:HB3	2.00	0.42
1:T:473:GLN:O	1:T:475:ARG:HG3	2.20	0.42
1:T:552:VAL:CG2	1:T:556:LYS:HD2	2.49	0.42
1:T:716:THR:HG23	1:T:717:ASN:N	2.35	0.42
1:U:314:LYS:HE3	1:U:314:LYS:HB3	1.85	0.42
1:U:466:GLY:N	1:U:473:GLN:HE22	2.16	0.42
1:V:446:SER:OG	1:V:447:ARG:N	2.53	0.42
1:W:339:THR:HG22	1:W:404:ARG:HG2	2.01	0.42
1:X:433:LEU:O	1:X:433:LEU:HD13	2.19	0.42
1:Y:382:ASN:CG	1:Y:383:GLY:H	2.22	0.42
1:V:701:THR:OG1	1:Y:698:ILE:O	128.41	0.42
1:Z:378:LEU:HD23	1:Z:378:LEU:HA	1.75	0.42
1:Z:339:THR:HG22	1:Z:404:ARG:HG2	2.01	0.42
1:Z:621:ILE:HG22	1:2:477:TRP:CH2	81.20	0.42
1:Z:421:HIS:HB2	1:Z:637:PHE:CE1	2.54	0.42
1:1:314:LYS:HB2	1:1:679:SER:HB3	2.00	0.42
1:1:378:LEU:HD23	1:1:378:LEU:HA	1.75	0.42
1:1:586:GLY:O	1:2:496:ASN:HA	2.19	0.42
1:Z:692:LYS:HG2	1:4:398:PHE:CE1	2.54	0.42
1:4:509:HIS:HB3	1:4:514:ASP:OD1	2.19	0.42
1:4:421:HIS:HB2	1:4:637:PHE:CE1	2.54	0.42
1:5:421:HIS:HB2	1:5:637:PHE:CE1	2.54	0.42
1:6:375:TYR:CG	1:6:376:GLY:N	2.86	0.42
1:6:477:TRP:CH2	1:7:621:ILE:HG22	2.53	0.42
1:6:658:SER:O	1:6:659:THR:OG1	2.27	0.42
1:6:692:LYS:HG2	1:7:398:PHE:CE1	2.54	0.42
1:7:287:PHE:HE1	1:7:684:TRP:HH2	1.66	0.42
1:8:378:LEU:HD23	1:8:378:LEU:HA	1.75	0.42
1:8:421:HIS:HB2	1:8:637:PHE:CE1	2.54	0.42
1:A:473:GLN:O	1:A:475:ARG:HG3	2.20	0.42
1:B:545:GLN:HA	1:B:546:GLY:HA2	1.77	0.42
1:B:716:THR:HG23	1:B:717:ASN:N	2.35	0.42
1:C:547:SER:HG	1:P:443:TYR:HH	52.24	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:339:THR:HG22	1:D:404:ARG:HG2	2.01	0.42
1:F:398:PHE:CE1	1:Q:692:LYS:HG2	2.54	0.42
1:F:548:GLU:O	1:F:552:VAL:HB	2.20	0.42
1:E:496:ASN:HA	1:F:586:GLY:O	2.19	0.42
1:F:716:THR:HG23	1:F:717:ASN:N	2.35	0.42
1:G:325:GLN:NE2	1:G:330:THR:HG22	2.34	0.42
1:F:496:ASN:HA	1:G:586:GLY:O	99.91	0.42
1:I:325:GLN:NE2	1:I:330:THR:HG22	2.34	0.42
1:I:473:GLN:O	1:I:475:ARG:HG3	2.20	0.42
1:I:620:LYS:HD3	1:I:642:PRO:CD	2.49	0.42
1:K:342:VAL:HG13	1:K:343:PHE:N	2.31	0.42
1:K:509:HIS:HB3	1:K:514:ASP:OD1	2.19	0.42
1:L:339:THR:HG22	1:L:404:ARG:HG2	2.01	0.42
1:L:548:GLU:O	1:L:552:VAL:HB	2.20	0.42
1:L:592:THR:HG22	1:L:593:ALA:N	2.34	0.42
1:M:716:THR:HG23	1:M:717:ASN:N	2.35	0.42
1:N:509:HIS:HB3	1:N:514:ASP:OD1	2.19	0.42
1:P:375:TYR:CG	1:P:376:GLY:N	2.86	0.42
1:P:555:GLU:N	1:P:555:GLU:OE1	2.46	0.42
1:R:378:LEU:HD23	1:R:378:LEU:HA	1.75	0.42
1:R:473:GLN:O	1:R:475:ARG:HG3	2.20	0.42
1:Q:586:GLY:O	1:R:496:ASN:HA	84.40	0.42
1:R:716:THR:HG23	1:R:717:ASN:N	2.35	0.42
1:U:365:PHE:HA	1:U:366:PRO:HD3	1.91	0.42
1:X:485:GLN:HB2	1:X:573:THR:HG22	2.02	0.42
1:Y:592:THR:HG22	1:Y:593:ALA:H	1.83	0.42
1:Z:325:GLN:NE2	1:Z:330:THR:HG22	2.34	0.42
1:Z:433:LEU:O	1:Z:433:LEU:HD13	2.19	0.42
1:Z:716:THR:HG23	1:Z:717:ASN:N	2.35	0.42
1:Z:611:VAL:O	1:Z:727:GLY:HA2	2.19	0.42
1:1:462:PHE:CD2	1:2:557:VAL:HG11	2.53	0.42
1:1:548:GLU:O	1:1:552:VAL:HB	2.20	0.42
1:1:552:VAL:CG2	1:1:556:LYS:HD2	2.49	0.42
1:2:592:THR:HG22	1:2:593:ALA:H	1.83	0.42
1:2:421:HIS:HB2	1:2:637:PHE:CE1	2.54	0.42
1:3:613:LEU:HD23	1:3:726:ILE:HB	1.99	0.42
1:3:620:LYS:HD3	1:3:642:PRO:CD	2.49	0.42
1:5:611:VAL:O	1:5:727:GLY:HA2	2.19	0.42
1:6:339:THR:HG22	1:6:404:ARG:HG2	2.01	0.42
1:7:352:TYR:CZ	1:7:354:LEU:HD13	2.54	0.42
1:7:339:THR:HG22	1:7:404:ARG:HG2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:277:THR:CG2	1:8:375:TYR:HB3	2.49	0.42
1:8:314:LYS:HB2	1:8:679:SER:HB3	2.00	0.42
1:8:375:TYR:CG	1:8:376:GLY:N	2.86	0.42
1:A:433:LEU:HD13	1:A:433:LEU:O	2.19	0.42
1:B:314:LYS:HB2	1:B:679:SER:HB3	2.00	0.42
1:B:421:HIS:HB2	1:B:637:PHE:CE1	2.54	0.42
1:B:398:PHE:CE1	1:C:692:LYS:HG2	37.22	0.42
1:D:287:PHE:HE1	1:D:684:TRP:HH2	1.65	0.42
1:E:692:LYS:HG2	1:X:398:PHE:CE1	153.20	0.42
1:E:398:PHE:CE1	1:F:692:LYS:HG2	2.54	0.42
1:G:473:GLN:O	1:G:475:ARG:HG3	2.20	0.42
1:G:555:GLU:OE1	1:G:555:GLU:N	2.46	0.42
1:G:611:VAL:O	1:G:727:GLY:HA2	2.19	0.42
1:H:714:VAL:HG21	1:H:718:GLY:HA2	2.01	0.42
1:I:446:SER:OG	1:I:447:ARG:N	2.52	0.42
1:J:548:GLU:O	1:J:552:VAL:HB	2.20	0.42
1:J:692:LYS:HG2	1:L:398:PHE:CE1	2.54	0.42
1:L:421:HIS:HB2	1:L:637:PHE:CE1	2.54	0.42
1:N:365:PHE:HA	1:N:366:PRO:HD3	1.91	0.42
1:N:473:GLN:O	1:N:475:ARG:HG3	2.20	0.42
1:O:485:GLN:HB2	1:O:573:THR:HG22	2.02	0.42
1:O:552:VAL:CG2	1:O:556:LYS:HD2	2.49	0.42
1:O:692:LYS:HG2	1:P:398:PHE:CE1	37.21	0.42
1:P:433:LEU:O	1:P:433:LEU:HD13	2.19	0.42
1:N:586:GLY:O	1:P:496:ASN:HA	2.19	0.42
1:Q:485:GLN:HB2	1:Q:573:THR:HG22	2.02	0.42
1:Q:716:THR:HG23	1:Q:717:ASN:N	2.35	0.42
1:R:485:GLN:HB2	1:R:573:THR:HG22	2.02	0.42
1:S:473:GLN:O	1:S:475:ARG:HG3	2.20	0.42
1:T:485:GLN:HB2	1:T:573:THR:HG22	2.02	0.42
1:T:548:GLU:O	1:T:552:VAL:HB	2.20	0.42
1:T:714:VAL:HG21	1:T:718:GLY:HA2	2.01	0.42
1:U:473:GLN:O	1:U:475:ARG:HG3	2.20	0.42
1:V:581:THR:OG1	1:V:592:THR:O	2.32	0.42
1:W:398:PHE:CE1	1:Y:692:LYS:HG2	58.79	0.42
1:W:485:GLN:HB2	1:W:573:THR:HG22	2.02	0.42
1:W:716:THR:HG23	1:W:717:ASN:N	2.35	0.42
1:X:446:SER:OG	1:X:447:ARG:N	2.52	0.42
1:Y:485:GLN:HB2	1:Y:573:THR:HG22	2.02	0.42
1:Y:548:GLU:O	1:Y:552:VAL:HB	2.20	0.42
1:Z:496:ASN:HA	1:3:586:GLY:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:548:GLU:O	1:Z:552:VAL:HB	2.20	0.42
1:1:446:SER:OG	1:1:447:ARG:N	2.52	0.42
1:2:497:ASN:CB	1:2:498:SER:HA	2.45	0.42
1:3:485:GLN:HB2	1:3:573:THR:HG22	2.02	0.42
1:5:716:THR:HG23	1:5:717:ASN:N	2.35	0.42
1:6:611:VAL:O	1:6:727:GLY:HA2	2.19	0.42
1:7:552:VAL:CG2	1:7:556:LYS:HD2	2.49	0.42
1:7:592:THR:HG22	1:7:593:ALA:H	1.83	0.42
1:A:498:SER:C	1:I:449:ASN:HB2	2.40	0.42
1:A:548:GLU:O	1:A:552:VAL:HB	2.20	0.42
1:A:485:GLN:HB2	1:A:573:THR:HG22	2.02	0.42
1:A:716:THR:HG23	1:A:717:ASN:N	2.35	0.42
1:C:485:GLN:HB2	1:C:573:THR:HG22	2.02	0.42
1:D:473:GLN:O	1:D:475:ARG:HG3	2.20	0.42
1:F:421:HIS:HB2	1:F:637:PHE:CE1	2.54	0.42
1:I:339:THR:HG22	1:I:404:ARG:HG2	2.01	0.42
1:J:586:GLY:O	1:L:496:ASN:HA	2.19	0.42
1:K:473:GLN:O	1:K:475:ARG:HG3	2.20	0.42
1:M:496:ASN:HA	1:O:586:GLY:O	135.80	0.42
1:C:496:ASN:HA	1:M:586:GLY:O	2.19	0.42
1:N:548:GLU:O	1:N:552:VAL:HB	2.20	0.42
1:N:651:THR:HA	1:N:652:PRO:HD3	1.92	0.42
1:O:382:ASN:CG	1:O:383:GLY:H	2.22	0.42
1:O:473:GLN:O	1:O:475:ARG:HG3	2.20	0.42
1:O:716:THR:HG23	1:O:717:ASN:N	2.35	0.42
1:P:473:GLN:O	1:P:475:ARG:HG3	2.20	0.42
1:D:496:ASN:HA	1:P:586:GLY:O	2.19	0.42
1:R:548:GLU:O	1:R:552:VAL:HB	2.20	0.42
1:S:325:GLN:NE2	1:S:330:THR:HG22	2.34	0.42
1:T:446:SER:OG	1:T:447:ARG:N	2.52	0.42
1:U:325:GLN:NE2	1:U:330:THR:HG22	2.34	0.42
1:S:586:GLY:O	1:U:496:ASN:HA	2.19	0.42
1:U:716:THR:HG23	1:U:717:ASN:N	2.35	0.42
1:V:325:GLN:NE2	1:V:330:THR:HG22	2.34	0.42
1:V:620:LYS:HD3	1:V:642:PRO:CD	2.49	0.42
1:V:716:THR:HG23	1:V:717:ASN:N	2.35	0.42
1:Y:354:LEU:O	1:Y:356:SER:N	2.47	0.42
1:Y:716:THR:HG23	1:Y:717:ASN:N	2.35	0.42
1:1:716:THR:HG23	1:1:717:ASN:N	2.35	0.42
1:2:339:THR:HG22	1:2:404:ARG:HG2	2.01	0.42
1:2:620:LYS:HD3	1:2:642:PRO:CD	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:277:THR:CG2	1:5:375:TYR:HB3	2.48	0.42
1:5:548:GLU:O	1:5:552:VAL:HB	2.20	0.42
1:6:429:SER:OG	1:6:431:ASP:OD1	2.18	0.42
1:6:716:THR:HG23	1:6:717:ASN:N	2.35	0.42
1:7:446:SER:OG	1:7:447:ARG:N	2.52	0.42
1:7:545:GLN:HA	1:7:546:GLY:HA2	1.77	0.42
1:7:620:LYS:HD3	1:7:642:PRO:CD	2.49	0.42
1:7:714:VAL:HG21	1:7:718:GLY:HA2	2.01	0.42
1:A:466:GLY:N	1:A:473:GLN:HE22	2.16	0.42
1:B:458:SER:OG	1:J:492:SER:OG	2.31	0.42
1:C:548:GLU:O	1:C:552:VAL:HB	2.20	0.42
1:C:620:LYS:HD3	1:C:642:PRO:CD	2.49	0.42
1:C:716:THR:HG23	1:C:717:ASN:N	2.35	0.42
1:D:497:ASN:CB	1:D:498:SER:HA	2.45	0.42
1:E:692:LYS:HG2	1:Q:398:PHE:CE1	2.54	0.42
1:F:339:THR:HG22	1:F:404:ARG:HG2	2.01	0.42
1:F:466:GLY:N	1:F:473:GLN:HE22	2.17	0.42
1:F:611:VAL:O	1:F:727:GLY:HA2	2.19	0.42
1:I:548:GLU:O	1:I:552:VAL:HB	2.20	0.42
1:I:485:GLN:HB2	1:I:573:THR:HG22	2.02	0.42
1:I:716:THR:HG23	1:I:717:ASN:N	2.35	0.42
1:J:287:PHE:HE2	1:J:611:VAL:HG11	1.85	0.42
1:K:244:THR:O	1:K:245:ARG:NH1	2.40	0.42
1:K:496:ASN:HA	1:8:586:GLY:O	2.19	0.42
1:K:548:GLU:O	1:K:552:VAL:HB	2.20	0.42
1:B:398:PHE:CE1	1:L:692:LYS:HG2	2.54	0.42
1:M:548:GLU:O	1:M:552:VAL:HB	2.20	0.42
1:C:398:PHE:CE1	1:M:692:LYS:HG2	2.54	0.42
1:N:433:LEU:HD13	1:N:433:LEU:O	2.19	0.42
1:O:339:THR:HG22	1:O:404:ARG:HG2	2.01	0.42
1:O:548:GLU:O	1:O:552:VAL:HB	2.20	0.42
1:C:462:PHE:CD2	1:O:557:VAL:HG11	155.43	0.42
1:Q:300:ILE:HD11	1:Q:728:THR:HA	2.02	0.42
1:R:382:ASN:CG	1:R:383:GLY:H	2.22	0.42
1:Q:498:SER:C	1:S:449:ASN:HB2	106.00	0.42
1:S:485:GLN:HB2	1:S:573:THR:HG22	2.02	0.42
1:S:497:ASN:CB	1:S:498:SER:HA	2.45	0.42
1:S:714:VAL:HG21	1:S:718:GLY:HA2	2.01	0.42
1:T:287:PHE:HE2	1:T:611:VAL:HG11	1.85	0.42
1:T:421:HIS:HB2	1:T:637:PHE:CE1	2.54	0.42
1:T:692:LYS:HG2	1:U:398:PHE:CE1	37.22	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:497:ASN:CB	1:U:498:SER:HA	2.45	0.42
1:U:692:LYS:HG2	1:V:398:PHE:CE1	41.78	0.42
1:V:485:GLN:HB2	1:V:573:THR:HG22	2.02	0.42
1:E:496:ASN:HA	1:V:586:GLY:O	195.35	0.42
1:W:287:PHE:HE2	1:W:611:VAL:HG11	1.85	0.42
1:W:496:ASN:HA	1:Y:586:GLY:O	40.09	0.42
1:W:548:GLU:O	1:W:552:VAL:HB	2.20	0.42
1:X:620:LYS:HD3	1:X:642:PRO:CD	2.49	0.42
1:Y:287:PHE:HE2	1:Y:611:VAL:HG11	1.85	0.42
1:Z:466:GLY:N	1:Z:473:GLN:HE22	2.17	0.42
1:Z:497:ASN:CB	1:Z:498:SER:HA	2.45	0.42
1:1:421:HIS:HB2	1:1:637:PHE:CE1	2.54	0.42
1:2:347:GLU:OE1	1:2:347:GLU:N	2.41	0.42
1:2:277:THR:CG2	1:2:375:TYR:HB3	2.49	0.42
1:2:473:GLN:O	1:2:475:ARG:HG3	2.20	0.42
1:3:300:ILE:HD11	1:3:728:THR:HA	2.02	0.42
1:3:548:GLU:O	1:3:552:VAL:HB	2.20	0.42
1:3:552:VAL:CG2	1:3:556:LYS:HD2	2.49	0.42
1:4:339:THR:HG22	1:4:404:ARG:HG2	2.01	0.42
1:4:433:LEU:O	1:4:433:LEU:HD13	2.19	0.42
1:4:548:GLU:O	1:4:552:VAL:HB	2.20	0.42
1:5:398:PHE:CE1	1:7:692:LYS:HG2	2.54	0.42
1:5:300:ILE:HD11	1:5:728:THR:HA	2.02	0.42
1:6:466:GLY:N	1:6:473:GLN:HE22	2.17	0.42
1:5:443:TYR:HH	1:6:547:SER:HG	1.55	0.42
1:6:620:LYS:HD3	1:6:642:PRO:CD	2.49	0.42
1:7:485:GLN:HB2	1:7:573:THR:HG22	2.02	0.42
1:8:287:PHE:HE2	1:8:611:VAL:HG11	1.85	0.42
1:A:300:ILE:HD11	1:A:728:THR:HA	2.02	0.42
1:A:496:ASN:HB2	1:A:498:SER:HB2	2.02	0.42
1:B:433:LEU:O	1:B:433:LEU:HD13	2.19	0.42
1:B:446:SER:OG	1:B:447:ARG:N	2.52	0.42
1:B:497:ASN:CB	1:B:498:SER:HA	2.45	0.42
1:B:581:THR:OG1	1:B:592:THR:O	2.32	0.42
1:C:339:THR:HG22	1:C:404:ARG:HG2	2.01	0.42
1:D:496:ASN:HA	1:T:586:GLY:O	164.71	0.42
1:D:716:THR:HG23	1:D:717:ASN:N	2.35	0.42
1:E:245:ARG:HE	1:E:363:PRO:HG2	1.85	0.42
1:E:446:SER:OG	1:E:447:ARG:N	2.52	0.42
1:E:548:GLU:O	1:E:552:VAL:HB	2.20	0.42
1:E:485:GLN:HB2	1:E:573:THR:HG22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:620:LYS:HD3	1:E:642:PRO:CD	2.49	0.42
1:F:446:SER:OG	1:F:447:ARG:N	2.52	0.42
1:H:473:GLN:O	1:H:475:ARG:HG3	2.20	0.42
1:H:548:GLU:O	1:H:552:VAL:HB	2.20	0.42
1:K:716:THR:HG23	1:K:717:ASN:N	2.35	0.42
1:L:473:GLN:O	1:L:475:ARG:HG3	2.20	0.42
1:M:287:PHE:HE2	1:M:611:VAL:HG11	1.85	0.42
1:N:300:ILE:HD11	1:N:728:THR:HA	2.02	0.42
1:O:314:LYS:HB3	1:O:314:LYS:HE3	1.85	0.42
1:O:300:ILE:HD11	1:O:728:THR:HA	2.02	0.42
1:P:485:GLN:HB2	1:P:573:THR:HG22	2.02	0.42
1:Q:354:LEU:O	1:Q:356:SER:N	2.47	0.42
1:Q:548:GLU:O	1:Q:552:VAL:HB	2.20	0.42
1:R:300:ILE:HD11	1:R:728:THR:HA	2.02	0.42
1:S:548:GLU:O	1:S:552:VAL:HB	2.20	0.42
1:T:378:LEU:HA	1:T:378:LEU:HD23	1.75	0.42
1:T:300:ILE:HD11	1:T:728:THR:HA	2.02	0.42
1:S:692:LYS:HG2	1:U:398:PHE:CE1	2.54	0.42
1:V:496:ASN:HB2	1:V:498:SER:HB2	2.02	0.42
1:W:473:GLN:O	1:W:475:ARG:HG3	2.20	0.42
1:X:421:HIS:HB2	1:X:637:PHE:CE1	2.54	0.42
1:X:548:GLU:O	1:X:552:VAL:HB	2.20	0.42
1:X:716:THR:HG23	1:X:717:ASN:N	2.35	0.42
1:Y:496:ASN:HB2	1:Y:498:SER:HB2	2.02	0.42
1:Y:497:ASN:CB	1:Y:498:SER:HA	2.45	0.42
1:Z:473:GLN:O	1:Z:475:ARG:HG3	2.20	0.42
1:3:344:THR:HB	1:3:646:ILE:HG22	2.00	0.42
1:3:382:ASN:CG	1:3:383:GLY:H	2.22	0.42
1:4:287:PHE:HE1	1:4:684:TRP:HH2	1.66	0.42
1:5:287:PHE:HE2	1:5:611:VAL:HG11	1.85	0.42
1:6:586:GLY:O	1:7:496:ASN:HA	2.19	0.42
1:8:433:LEU:HD13	1:8:433:LEU:O	2.19	0.42
1:8:473:GLN:O	1:8:475:ARG:HG3	2.20	0.42
1:8:485:GLN:HB2	1:8:573:THR:HG22	2.02	0.42
1:8:496:ASN:HB2	1:8:498:SER:HB2	2.02	0.42
1:A:287:PHE:HE2	1:A:611:VAL:HG11	1.85	0.42
1:A:314:LYS:HE3	1:A:314:LYS:HB3	1.85	0.42
1:B:620:LYS:HD3	1:B:642:PRO:CD	2.49	0.42
1:D:548:GLU:O	1:D:552:VAL:HB	2.20	0.42
1:E:287:PHE:HE2	1:E:611:VAL:HG11	1.85	0.42
1:G:548:GLU:O	1:G:552:VAL:HB	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:300:ILE:HD11	1:G:728:THR:HA	2.02	0.42
1:H:300:ILE:HD11	1:H:728:THR:HA	2.02	0.42
1:H:485:GLN:HB2	1:H:573:THR:HG22	2.02	0.42
1:J:245:ARG:HE	1:J:363:PRO:HG2	1.85	0.42
1:J:446:SER:OG	1:J:447:ARG:N	2.52	0.42
1:K:714:VAL:HG21	1:K:718:GLY:HA2	2.01	0.42
1:L:485:GLN:HB2	1:L:573:THR:HG22	2.02	0.42
1:M:446:SER:OG	1:M:447:ARG:N	2.52	0.42
1:O:496:ASN:HB2	1:O:498:SER:HB2	2.02	0.42
1:O:714:VAL:HG21	1:O:718:GLY:HA2	2.01	0.42
1:P:300:ILE:HD11	1:P:728:THR:HA	2.02	0.42
1:P:496:ASN:HB2	1:P:498:SER:HB2	2.02	0.42
1:Q:496:ASN:HB2	1:Q:498:SER:HB2	2.02	0.42
1:R:339:THR:HG22	1:R:404:ARG:HG2	2.01	0.42
1:R:496:ASN:HB2	1:R:498:SER:HB2	2.02	0.42
1:S:300:ILE:HD11	1:S:728:THR:HA	2.02	0.42
1:T:325:GLN:NE2	1:T:330:THR:HG22	2.34	0.42
1:T:339:THR:HG22	1:T:404:ARG:HG2	2.01	0.42
1:T:496:ASN:HB2	1:T:498:SER:HB2	2.02	0.42
1:U:287:PHE:HE2	1:U:611:VAL:HG11	1.85	0.42
1:V:287:PHE:HE2	1:V:611:VAL:HG11	1.85	0.42
1:V:497:ASN:CB	1:V:498:SER:HA	2.45	0.42
1:W:496:ASN:HB2	1:W:498:SER:HB2	2.02	0.42
1:X:339:THR:HG22	1:X:404:ARG:HG2	2.01	0.42
1:Y:473:GLN:O	1:Y:475:ARG:HG3	2.20	0.42
1:Y:581:THR:OG1	1:Y:592:THR:O	2.32	0.42
1:Y:308:PRO:HA	1:Y:684:TRP:HA	2.02	0.42
1:Z:485:GLN:HB2	1:Z:573:THR:HG22	2.02	0.42
1:Z:496:ASN:HB2	1:Z:498:SER:HB2	2.02	0.42
1:1:496:ASN:HB2	1:1:498:SER:HB2	2.02	0.42
1:2:375:TYR:CG	1:2:376:GLY:N	2.86	0.42
1:3:433:LEU:HD13	1:3:433:LEU:O	2.19	0.42
1:4:388:GLY:O	1:4:389:ARG:HB2	2.20	0.42
1:4:608:ASP:HB3	1:4:609:ARG:H	1.53	0.42
1:7:245:ARG:HE	1:7:363:PRO:HG2	1.85	0.42
1:7:473:GLN:O	1:7:475:ARG:HG3	2.20	0.42
1:7:608:ASP:HB3	1:7:609:ARG:H	1.53	0.42
1:8:620:LYS:HD3	1:8:642:PRO:CD	2.49	0.42
1:B:458:SER:OG	1:M:492:SER:OG	147.44	0.42
1:B:698:ILE:O	1:C:701:THR:OG1	64.44	0.42
1:C:287:PHE:HE2	1:C:611:VAL:HG11	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:388:GLY:O	1:C:389:ARG:HB2	2.20	0.42
1:D:325:GLN:NE2	1:D:330:THR:HG22	2.34	0.42
1:E:601:LEU:O	1:E:604:MET:HG2	2.20	0.42
1:F:308:PRO:HA	1:F:684:TRP:HA	2.02	0.42
1:E:621:ILE:HG22	1:F:477:TRP:CH2	2.54	0.42
1:G:485:GLN:HB2	1:G:573:THR:HG22	2.02	0.42
1:G:716:THR:HG23	1:G:717:ASN:N	2.35	0.42
1:H:245:ARG:HE	1:H:363:PRO:HG2	1.85	0.42
1:H:325:GLN:NE2	1:H:330:THR:HG22	2.34	0.42
1:H:716:THR:HG23	1:H:717:ASN:N	2.35	0.42
1:I:378:LEU:HD23	1:I:378:LEU:HA	1.75	0.42
1:H:368:ASP:OD2	1:I:665:LYS:HB3	2.20	0.42
1:J:308:PRO:HA	1:J:684:TRP:HA	2.02	0.42
1:K:245:ARG:HE	1:K:363:PRO:HG2	1.85	0.42
1:M:244:THR:O	1:M:245:ARG:NH1	2.40	0.42
1:M:473:GLN:O	1:M:475:ARG:HG3	2.20	0.42
1:M:496:ASN:HB2	1:M:498:SER:HB2	2.02	0.42
1:M:287:PHE:HE1	1:M:684:TRP:HH2	1.66	0.42
1:N:496:ASN:HB2	1:N:498:SER:HB2	2.02	0.42
1:N:485:GLN:HB2	1:N:573:THR:HG22	2.02	0.42
1:M:492:SER:OG	1:O:458:SER:OG	119.47	0.42
1:P:325:GLN:NE2	1:P:330:THR:HG22	2.34	0.42
1:O:598:GLN:HE22	1:P:483:TYR:HE1	79.83	0.42
1:P:545:GLN:HA	1:P:546:GLY:HA2	1.77	0.42
1:P:287:PHE:HE2	1:P:611:VAL:HG11	1.85	0.42
1:P:620:LYS:HD3	1:P:642:PRO:CD	2.49	0.42
1:P:716:THR:HG23	1:P:717:ASN:N	2.35	0.42
1:Q:473:GLN:O	1:Q:475:ARG:HG3	2.20	0.42
1:R:378:LEU:O	1:R:379:THR:OG1	2.26	0.42
1:R:449:ASN:HB2	1:S:498:SER:C	2.41	0.42
1:R:308:PRO:HA	1:R:684:TRP:HA	2.02	0.42
1:S:716:THR:HG23	1:S:717:ASN:N	2.35	0.42
1:V:496:ASN:HA	1:X:586:GLY:O	2.19	0.42
1:W:354:LEU:O	1:W:356:SER:N	2.47	0.42
1:X:287:PHE:HE2	1:X:611:VAL:HG11	1.85	0.42
1:W:586:GLY:O	1:X:496:ASN:HA	84.40	0.42
1:X:586:GLY:O	1:Y:496:ASN:HA	115.47	0.42
1:Y:388:GLY:O	1:Y:389:ARG:HB2	2.20	0.42
1:1:449:ASN:HB2	1:2:498:SER:C	2.40	0.42
1:1:473:GLN:O	1:1:475:ARG:HG3	2.20	0.42
1:1:555:GLU:OE1	1:1:555:GLU:N	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:287:PHE:HE2	1:1:611:VAL:HG11	1.85	0.42
1:2:245:ARG:HE	1:2:363:PRO:HG2	1.85	0.42
1:2:378:LEU:O	1:2:379:THR:OG1	2.26	0.42
1:2:716:THR:HG23	1:2:717:ASN:N	2.35	0.42
1:4:485:GLN:HB2	1:4:573:THR:HG22	2.02	0.42
1:4:651:THR:HA	1:4:652:PRO:HD3	1.92	0.42
1:5:382:ASN:CG	1:5:383:GLY:H	2.22	0.42
1:6:433:LEU:HD13	1:6:433:LEU:O	2.19	0.42
1:6:421:HIS:HB2	1:6:637:PHE:CE1	2.54	0.42
1:7:342:VAL:HG13	1:7:343:PHE:N	2.31	0.42
1:7:548:GLU:O	1:7:552:VAL:HB	2.20	0.42
1:7:601:LEU:O	1:7:604:MET:HG2	2.20	0.42
1:A:325:GLN:NE2	1:A:330:THR:HG22	2.34	0.42
1:A:601:LEU:O	1:A:604:MET:HG2	2.20	0.42
1:B:388:GLY:O	1:B:389:ARG:HB2	2.20	0.42
1:B:651:THR:HA	1:B:652:PRO:HD3	1.92	0.42
1:C:244:THR:O	1:C:245:ARG:NH1	2.40	0.42
1:D:692:LYS:HG2	1:L:398:PHE:CE1	112.66	0.42
1:E:473:GLN:O	1:E:475:ARG:HG3	2.20	0.42
1:F:245:ARG:HE	1:F:363:PRO:HG2	1.85	0.42
1:F:388:GLY:O	1:F:389:ARG:HB2	2.20	0.42
1:G:608:ASP:HB3	1:G:609:ARG:H	1.53	0.42
1:H:427:SER:HB3	1:H:734:ASN:HA	2.02	0.42
1:H:446:SER:OG	1:H:447:ARG:N	2.52	0.42
1:I:314:LYS:HB3	1:I:314:LYS:HE3	1.85	0.42
1:I:388:GLY:O	1:I:389:ARG:HB2	2.20	0.42
1:A:496:ASN:HA	1:I:586:GLY:O	2.20	0.42
1:I:287:PHE:HE2	1:I:611:VAL:HG11	1.85	0.42
1:J:388:GLY:O	1:J:389:ARG:HB2	2.20	0.42
1:B:586:GLY:O	1:J:496:ASN:HA	2.19	0.42
1:K:427:SER:HB3	1:K:734:ASN:HA	2.02	0.42
1:L:388:GLY:O	1:L:389:ARG:HB2	2.20	0.42
1:B:496:ASN:HA	1:L:586:GLY:O	2.19	0.42
1:L:586:GLY:O	1:T:496:ASN:HA	253.70	0.42
1:B:586:GLY:O	1:M:496:ASN:HA	137.42	0.42
1:M:308:PRO:HA	1:M:684:TRP:HA	2.02	0.42
1:N:388:GLY:O	1:N:389:ARG:HB2	2.20	0.42
1:O:325:GLN:NE2	1:O:330:THR:HG22	2.34	0.42
1:P:446:SER:OG	1:P:447:ARG:N	2.52	0.42
1:P:548:GLU:O	1:P:552:VAL:HB	2.20	0.42
1:Q:388:GLY:O	1:Q:389:ARG:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:446:SER:OG	1:Q:447:ARG:N	2.52	0.42
1:Q:287:PHE:HE2	1:Q:611:VAL:HG11	1.85	0.42
1:S:245:ARG:HE	1:S:363:PRO:HG2	1.85	0.42
1:S:365:PHE:HA	1:S:366:PRO:HD3	1.91	0.42
1:T:608:ASP:HB3	1:T:609:ARG:H	1.53	0.42
1:D:398:PHE:CE1	1:T:692:LYS:HG2	103.70	0.42
1:U:245:ARG:HE	1:U:363:PRO:HG2	1.85	0.42
1:U:308:PRO:HA	1:U:684:TRP:HA	2.02	0.42
1:V:300:ILE:HD11	1:V:728:THR:HA	2.02	0.42
1:V:388:GLY:O	1:V:389:ARG:HB2	2.20	0.42
1:U:701:THR:OG1	1:V:698:ILE:O	2.19	0.42
1:W:388:GLY:O	1:W:389:ARG:HB2	2.20	0.42
1:X:308:PRO:HA	1:X:684:TRP:HA	2.02	0.42
1:X:378:LEU:O	1:X:379:THR:OG1	2.26	0.42
1:Y:385:GLN:HB3	1:Y:386:ALA:H	1.63	0.42
1:H:496:ASN:HA	1:Y:586:GLY:O	2.19	0.42
1:Z:388:GLY:O	1:Z:389:ARG:HB2	2.20	0.42
1:1:509:HIS:HB3	1:1:514:ASP:OD1	2.19	0.41
1:1:714:VAL:HG21	1:1:718:GLY:HA2	2.01	0.41
1:2:325:GLN:NE2	1:2:330:THR:HG22	2.34	0.41
1:2:288:HIS:ND1	1:2:364:PRO:HG3	2.35	0.41
1:3:244:THR:O	1:3:245:ARG:NH1	2.40	0.41
1:3:714:VAL:HG21	1:3:718:GLY:HA2	2.01	0.41
1:4:300:ILE:HD11	1:4:728:THR:HA	2.02	0.41
1:5:287:PHE:HD2	1:5:613:LEU:HA	1.85	0.41
1:5:446:SER:OG	1:5:447:ARG:N	2.52	0.41
1:5:485:GLN:HB2	1:5:573:THR:HG22	2.02	0.41
1:6:496:ASN:HB2	1:6:498:SER:HB2	2.02	0.41
1:6:601:LEU:O	1:6:604:MET:HG2	2.20	0.41
1:8:245:ARG:HE	1:8:363:PRO:HG2	1.85	0.41
1:8:427:SER:HB3	1:8:734:ASN:HA	2.02	0.41
1:8:545:GLN:HA	1:8:546:GLY:HA2	1.77	0.41
1:8:548:GLU:O	1:8:552:VAL:HB	2.20	0.41
1:A:245:ARG:HE	1:A:363:PRO:HG2	1.85	0.41
1:A:449:ASN:HB2	1:G:498:SER:C	2.40	0.41
1:A:621:ILE:HG22	1:I:477:TRP:CH2	2.55	0.41
1:B:288:HIS:ND1	1:B:364:PRO:HG3	2.36	0.41
1:B:342:VAL:HG13	1:B:343:PHE:N	2.31	0.41
1:B:473:GLN:O	1:B:475:ARG:HG3	2.20	0.41
1:B:548:GLU:O	1:B:552:VAL:HB	2.20	0.41
1:C:427:SER:HB3	1:C:734:ASN:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:245:ARG:HE	1:D:363:PRO:HG2	1.85	0.41
1:D:388:GLY:O	1:D:389:ARG:HB2	2.20	0.41
1:D:477:TRP:CH2	1:L:621:ILE:HG22	121.32	0.41
1:D:568:THR:HG23	1:D:569:ASN:N	2.36	0.41
1:D:287:PHE:HD2	1:D:613:LEU:HA	1.85	0.41
1:E:496:ASN:HB2	1:E:498:SER:HB2	2.02	0.41
1:E:287:PHE:HD2	1:E:613:LEU:HA	1.85	0.41
1:F:496:ASN:HB2	1:F:498:SER:HB2	2.02	0.41
1:F:568:THR:HG23	1:F:569:ASN:N	2.35	0.41
1:F:601:LEU:O	1:F:604:MET:HG2	2.20	0.41
1:G:388:GLY:O	1:G:389:ARG:HB2	2.20	0.41
1:G:492:SER:OG	1:H:458:SER:OG	73.30	0.41
1:H:482:CYS:HB3	1:H:570:PRO:HG2	2.03	0.41
1:H:287:PHE:HE2	1:H:611:VAL:HG11	1.85	0.41
1:H:308:PRO:HA	1:H:684:TRP:HA	2.02	0.41
1:I:365:PHE:HA	1:I:366:PRO:HD3	1.91	0.41
1:I:482:CYS:HB3	1:I:570:PRO:HG2	2.02	0.41
1:I:555:GLU:N	1:I:555:GLU:OE1	2.46	0.41
1:K:325:GLN:NE2	1:K:330:THR:HG22	2.34	0.41
1:K:555:GLU:N	1:K:555:GLU:OE1	2.46	0.41
1:K:568:THR:HG23	1:K:569:ASN:N	2.35	0.41
1:K:308:PRO:HA	1:K:684:TRP:HA	2.02	0.41
1:M:620:LYS:HD3	1:M:642:PRO:CD	2.49	0.41
1:O:287:PHE:HD2	1:O:613:LEU:HA	1.85	0.41
1:O:601:LEU:O	1:O:604:MET:HG2	2.20	0.41
1:O:287:PHE:HE2	1:O:611:VAL:HG11	1.85	0.41
1:P:245:ARG:HE	1:P:363:PRO:HG2	1.85	0.41
1:P:427:SER:HB3	1:P:734:ASN:HA	2.02	0.41
1:P:696:PRO:HD3	1:S:712:PHE:CE2	108.13	0.41
1:Q:482:CYS:HB3	1:Q:570:PRO:HG2	2.02	0.41
1:Q:601:LEU:O	1:Q:604:MET:HG2	2.20	0.41
1:Q:287:PHE:HD2	1:Q:613:LEU:HA	1.85	0.41
1:R:568:THR:HG23	1:R:569:ASN:N	2.36	0.41
1:S:308:PRO:HA	1:S:684:TRP:HA	2.02	0.41
1:T:314:LYS:HE3	1:T:314:LYS:HB3	1.85	0.41
1:U:300:ILE:HD11	1:U:728:THR:HA	2.02	0.41
1:U:714:VAL:HG21	1:U:718:GLY:HA2	2.01	0.41
1:V:245:ARG:HE	1:V:363:PRO:HG2	1.85	0.41
1:V:482:CYS:HB3	1:V:570:PRO:HG2	2.02	0.41
1:V:714:VAL:HG21	1:V:718:GLY:HA2	2.01	0.41
1:W:287:PHE:HD2	1:W:613:LEU:HA	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:245:ARG:HE	1:Y:363:PRO:HG2	1.85	0.41
1:Y:378:LEU:O	1:Y:379:THR:OG1	2.26	0.41
1:Y:339:THR:HG22	1:Y:404:ARG:HG2	2.01	0.41
1:Y:568:THR:HG23	1:Y:569:ASN:N	2.36	0.41
1:Z:321:LYS:HZ2	1:Z:332:ILE:HG21	1.85	0.41
1:Z:446:SER:OG	1:Z:447:ARG:N	2.52	0.41
1:Z:287:PHE:HE2	1:Z:611:VAL:HG11	1.85	0.41
1:1:300:ILE:HD11	1:1:728:THR:HA	2.02	0.41
1:2:300:ILE:HD11	1:2:728:THR:HA	2.02	0.41
1:2:388:GLY:O	1:2:389:ARG:HB2	2.20	0.41
1:2:568:THR:HG23	1:2:569:ASN:N	2.35	0.41
1:3:473:GLN:O	1:3:475:ARG:HG3	2.20	0.41
1:Z:665:LYS:HB3	1:4:368:ASP:OD2	99.54	0.41
1:4:496:ASN:HB2	1:4:498:SER:HB2	2.02	0.41
1:5:388:GLY:O	1:5:389:ARG:HB2	2.20	0.41
1:5:473:GLN:O	1:5:475:ARG:HG3	2.20	0.41
1:6:287:PHE:HE2	1:6:611:VAL:HG11	1.85	0.41
1:6:482:CYS:HB3	1:6:570:PRO:HG2	2.02	0.41
1:7:308:PRO:HA	1:7:684:TRP:HA	2.02	0.41
1:8:288:HIS:ND1	1:8:364:PRO:HG3	2.35	0.41
1:A:568:THR:HG23	1:A:569:ASN:N	2.35	0.41
1:A:287:PHE:HD2	1:A:613:LEU:HA	1.86	0.41
1:B:378:LEU:HA	1:B:378:LEU:HD23	1.75	0.41
1:C:288:HIS:ND1	1:C:364:PRO:HG3	2.36	0.41
1:B:496:ASN:HA	1:C:586:GLY:O	115.47	0.41
1:C:601:LEU:O	1:C:604:MET:HG2	2.20	0.41
1:C:287:PHE:HD2	1:C:613:LEU:HA	1.85	0.41
1:D:288:HIS:ND1	1:D:364:PRO:HG3	2.36	0.41
1:D:378:LEU:O	1:D:379:THR:OG1	2.26	0.41
1:D:485:GLN:HB2	1:D:573:THR:HG22	2.02	0.41
1:D:586:GLY:O	1:L:496:ASN:HA	166.76	0.41
1:E:288:HIS:ND1	1:E:364:PRO:HG3	2.36	0.41
1:F:288:HIS:ND1	1:F:364:PRO:HG3	2.36	0.41
1:F:555:GLU:N	1:F:555:GLU:OE1	2.46	0.41
1:G:482:CYS:HB3	1:G:570:PRO:HG2	2.02	0.41
1:G:601:LEU:O	1:G:604:MET:HG2	2.20	0.41
1:G:427:SER:HB3	1:G:734:ASN:HA	2.02	0.41
1:H:496:ASN:HB2	1:H:498:SER:HB2	2.02	0.41
1:H:601:LEU:O	1:H:604:MET:HG2	2.20	0.41
1:I:287:PHE:HD2	1:I:613:LEU:HA	1.85	0.41
1:I:288:HIS:ND1	1:I:364:PRO:HG3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:601:LEU:O	1:I:604:MET:HG2	2.20	0.41
1:J:288:HIS:ND1	1:J:364:PRO:HG3	2.35	0.41
1:J:473:GLN:O	1:J:475:ARG:HG3	2.20	0.41
1:J:496:ASN:HB2	1:J:498:SER:HB2	2.02	0.41
1:J:568:THR:HG23	1:J:569:ASN:N	2.35	0.41
1:K:378:LEU:HD23	1:K:378:LEU:HA	1.75	0.41
1:K:378:LEU:O	1:K:379:THR:OG1	2.26	0.41
1:K:496:ASN:HB2	1:K:498:SER:HB2	2.02	0.41
1:K:287:PHE:HE2	1:K:611:VAL:HG11	1.85	0.41
1:K:300:ILE:HD11	1:K:728:THR:HA	2.02	0.41
1:L:427:SER:HB3	1:L:734:ASN:HA	2.02	0.41
1:L:496:ASN:HB2	1:L:498:SER:HB2	2.02	0.41
1:L:601:LEU:O	1:L:604:MET:HG2	2.20	0.41
1:L:287:PHE:HE2	1:L:611:VAL:HG11	1.85	0.41
1:M:245:ARG:HE	1:M:363:PRO:HG2	1.85	0.41
1:M:388:GLY:O	1:M:389:ARG:HB2	2.20	0.41
1:M:482:CYS:HB3	1:M:570:PRO:HG2	2.02	0.41
1:Q:245:ARG:HE	1:Q:363:PRO:HG2	1.85	0.41
1:R:245:ARG:HE	1:R:363:PRO:HG2	1.85	0.41
1:R:388:GLY:O	1:R:389:ARG:HB2	2.20	0.41
1:S:568:THR:HG23	1:S:569:ASN:N	2.36	0.41
1:T:288:HIS:ND1	1:T:364:PRO:HG3	2.35	0.41
1:T:427:SER:HB3	1:T:734:ASN:HA	2.02	0.41
1:V:288:HIS:ND1	1:V:364:PRO:HG3	2.36	0.41
1:W:245:ARG:HE	1:W:363:PRO:HG2	1.85	0.41
1:W:482:CYS:HB3	1:W:570:PRO:HG2	2.03	0.41
1:X:427:SER:HB3	1:X:734:ASN:HA	2.02	0.41
1:X:482:CYS:HB3	1:X:570:PRO:HG2	2.03	0.41
1:X:300:ILE:HD11	1:X:728:THR:HA	2.02	0.41
1:Y:300:ILE:HD11	1:Y:728:THR:HA	2.02	0.41
1:Y:288:HIS:ND1	1:Y:364:PRO:HG3	2.36	0.41
1:Y:348:TYR:OH	1:Y:642:PRO:O	2.30	0.41
1:Z:300:ILE:HD11	1:Z:728:THR:HA	2.02	0.41
1:1:314:LYS:HB3	1:1:314:LYS:HE3	1.85	0.41
1:1:427:SER:HB3	1:1:734:ASN:HA	2.02	0.41
1:2:496:ASN:HB2	1:2:498:SER:HB2	2.02	0.41
1:2:287:PHE:HD2	1:2:613:LEU:HA	1.85	0.41
1:3:342:VAL:HG13	1:3:343:PHE:N	2.31	0.41
1:3:245:ARG:HE	1:3:363:PRO:HG2	1.85	0.41
1:3:339:THR:HG22	1:3:404:ARG:HG2	2.01	0.41
1:4:716:THR:HG23	1:4:717:ASN:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:245:ARG:HE	1:5:363:PRO:HG2	1.85	0.41
1:5:496:ASN:HB2	1:5:498:SER:HB2	2.02	0.41
1:6:548:GLU:O	1:6:552:VAL:HB	2.20	0.41
1:6:427:SER:HB3	1:6:734:ASN:HA	2.02	0.41
1:7:496:ASN:HB2	1:7:498:SER:HB2	2.02	0.41
1:8:482:CYS:HB3	1:8:570:PRO:HG2	2.02	0.41
1:A:416:GLU:CG	1:A:417:ASP:N	2.82	0.41
1:A:496:ASN:HA	1:K:586:GLY:O	170.61	0.41
1:A:586:GLY:O	1:G:496:ASN:HA	2.20	0.41
1:A:308:PRO:HA	1:A:684:TRP:HA	2.02	0.41
1:B:427:SER:HB3	1:B:734:ASN:HA	2.02	0.41
1:C:586:GLY:O	1:O:496:ASN:HA	162.10	0.41
1:D:300:ILE:HD11	1:D:728:THR:HA	2.02	0.41
1:D:496:ASN:HB2	1:D:498:SER:HB2	2.02	0.41
1:E:552:VAL:HG21	1:E:556:LYS:HD2	2.03	0.41
1:E:308:PRO:HA	1:E:684:TRP:HA	2.02	0.41
1:F:482:CYS:HB3	1:F:570:PRO:HG2	2.03	0.41
1:F:287:PHE:HE2	1:F:611:VAL:HG11	1.85	0.41
1:J:287:PHE:HD2	1:J:613:LEU:HA	1.85	0.41
1:K:482:CYS:HB3	1:K:570:PRO:HG2	2.03	0.41
1:K:485:GLN:HB2	1:K:573:THR:HG22	2.02	0.41
1:L:300:ILE:HD11	1:L:728:THR:HA	2.02	0.41
1:L:449:ASN:HB2	1:T:498:SER:C	245.95	0.41
1:L:568:THR:HG23	1:L:569:ASN:N	2.35	0.41
1:L:287:PHE:HD2	1:L:613:LEU:HA	1.85	0.41
1:L:308:PRO:HA	1:L:684:TRP:HA	2.02	0.41
1:M:287:PHE:HD2	1:M:613:LEU:HA	1.85	0.41
1:M:325:GLN:NE2	1:M:330:THR:HG22	2.34	0.41
1:M:601:LEU:O	1:M:604:MET:HG2	2.20	0.41
1:M:300:ILE:HD11	1:M:728:THR:HA	2.02	0.41
1:N:308:PRO:HA	1:N:684:TRP:HA	2.02	0.41
1:N:245:ARG:HE	1:N:363:PRO:HG2	1.85	0.41
1:N:348:TYR:OH	1:N:642:PRO:O	2.30	0.41
1:O:552:VAL:HG21	1:O:556:LYS:HD2	2.03	0.41
1:O:568:THR:HG23	1:O:569:ASN:N	2.36	0.41
1:P:308:PRO:HA	1:P:684:TRP:HA	2.02	0.41
1:P:288:HIS:ND1	1:P:364:PRO:HG3	2.36	0.41
1:P:482:CYS:HB3	1:P:570:PRO:HG2	2.03	0.41
1:P:608:ASP:HB3	1:P:609:ARG:H	1.53	0.41
1:Q:260:ILE:N	1:Q:274:GLY:O	2.41	0.41
1:Q:552:VAL:HG21	1:Q:556:LYS:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:608:ASP:HB3	1:Q:609:ARG:H	1.53	0.41
1:Q:308:PRO:HA	1:Q:684:TRP:HA	2.02	0.41
1:R:288:HIS:ND1	1:R:364:PRO:HG3	2.36	0.41
1:R:601:LEU:O	1:R:604:MET:HG2	2.20	0.41
1:S:287:PHE:HE2	1:S:611:VAL:HG11	1.85	0.41
1:T:308:PRO:HA	1:T:684:TRP:HA	2.02	0.41
1:T:555:GLU:OE1	1:T:555:GLU:N	2.46	0.41
1:T:601:LEU:O	1:T:604:MET:HG2	2.20	0.41
1:U:446:SER:OG	1:U:447:ARG:N	2.52	0.41
1:U:287:PHE:HD2	1:U:613:LEU:HA	1.85	0.41
1:V:287:PHE:HD2	1:V:613:LEU:HA	1.85	0.41
1:V:601:LEU:O	1:V:604:MET:HG2	2.20	0.41
1:V:651:THR:HA	1:V:652:PRO:HD3	1.92	0.41
1:W:288:HIS:ND1	1:W:364:PRO:HG3	2.36	0.41
1:W:552:VAL:HG21	1:W:556:LYS:HD2	2.03	0.41
1:W:601:LEU:O	1:W:604:MET:HG2	2.20	0.41
1:W:651:THR:HA	1:W:652:PRO:HD3	1.92	0.41
1:X:288:HIS:ND1	1:X:364:PRO:HG3	2.36	0.41
1:E:586:GLY:O	1:X:496:ASN:HA	162.38	0.41
1:X:496:ASN:HB2	1:X:498:SER:HB2	2.02	0.41
1:X:601:LEU:O	1:X:604:MET:HG2	2.20	0.41
1:Y:482:CYS:HB3	1:Y:570:PRO:HG2	2.02	0.41
1:Z:245:ARG:HE	1:Z:363:PRO:HG2	1.85	0.41
1:Z:288:HIS:ND1	1:Z:364:PRO:HG3	2.36	0.41
1:Z:482:CYS:HB3	1:Z:570:PRO:HG2	2.03	0.41
1:Z:601:LEU:O	1:Z:604:MET:HG2	2.20	0.41
1:Z:287:PHE:HD2	1:Z:613:LEU:HA	1.85	0.41
1:1:288:HIS:ND1	1:1:364:PRO:HG3	2.36	0.41
1:1:354:LEU:O	1:1:356:SER:N	2.47	0.41
1:1:608:ASP:HB3	1:1:609:ARG:H	1.53	0.41
1:1:545:GLN:NE2	1:1:721:SER:HA	2.36	0.41
1:Z:496:ASN:HA	1:2:586:GLY:O	121.89	0.41
1:3:482:CYS:HB3	1:3:570:PRO:HG2	2.03	0.41
1:6:308:PRO:HA	1:6:684:TRP:HA	2.02	0.41
1:6:714:VAL:HG21	1:6:718:GLY:HA2	2.01	0.41
1:7:552:VAL:HG21	1:7:556:LYS:HD2	2.03	0.41
1:7:287:PHE:HE2	1:7:611:VAL:HG11	1.85	0.41
1:8:388:GLY:O	1:8:389:ARG:HB2	2.20	0.41
1:8:552:VAL:HG21	1:8:556:LYS:HD2	2.03	0.41
1:8:308:PRO:HA	1:8:684:TRP:HA	2.02	0.41
1:8:716:THR:HG23	1:8:717:ASN:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:545:GLN:NE2	1:A:721:SER:HA	2.36	0.41
1:C:365:PHE:HA	1:C:366:PRO:HD3	1.91	0.41
1:C:308:PRO:HA	1:C:684:TRP:HA	2.02	0.41
1:D:555:GLU:N	1:D:555:GLU:OE1	2.46	0.41
1:E:325:GLN:NE2	1:E:330:THR:HG22	2.34	0.41
1:F:427:SER:HB3	1:F:734:ASN:HA	2.02	0.41
1:F:300:ILE:HD11	1:F:728:THR:HA	2.02	0.41
1:G:314:LYS:HB3	1:G:314:LYS:HE3	1.85	0.41
1:G:620:LYS:HD3	1:G:642:PRO:CD	2.49	0.41
1:I:308:PRO:HA	1:I:684:TRP:HA	2.02	0.41
1:J:354:LEU:O	1:J:356:SER:N	2.47	0.41
1:K:288:HIS:ND1	1:K:364:PRO:HG3	2.35	0.41
1:K:552:VAL:HG21	1:K:556:LYS:HD2	2.03	0.41
1:L:245:ARG:HE	1:L:363:PRO:HG2	1.85	0.41
1:L:287:PHE:HE1	1:L:684:TRP:HH2	1.66	0.41
1:M:288:HIS:ND1	1:M:364:PRO:HG3	2.36	0.41
1:M:485:GLN:HB2	1:M:573:THR:HG22	2.02	0.41
1:N:555:GLU:OE1	1:N:555:GLU:N	2.46	0.41
1:N:482:CYS:HB3	1:N:570:PRO:HG2	2.03	0.41
1:N:716:THR:HG23	1:N:717:ASN:N	2.35	0.41
1:O:245:ARG:HE	1:O:363:PRO:HG2	1.85	0.41
1:O:698:ILE:O	1:6:701:THR:OG1	152.92	0.41
1:P:552:VAL:HG21	1:P:556:LYS:HD2	2.03	0.41
1:P:545:GLN:NE2	1:P:721:SER:HA	2.36	0.41
1:Q:244:THR:O	1:Q:245:ARG:NH1	2.40	0.41
1:Q:568:THR:HG23	1:Q:569:ASN:N	2.36	0.41
1:Q:621:ILE:HG22	1:S:477:TRP:CH2	80.51	0.41
1:R:365:PHE:HA	1:R:366:PRO:HD3	1.91	0.41
1:S:482:CYS:HB3	1:S:570:PRO:HG2	2.03	0.41
1:S:601:LEU:O	1:S:604:MET:HG2	2.20	0.41
1:M:368:ASP:OD2	1:S:665:LYS:HB3	127.72	0.41
1:T:365:PHE:HA	1:T:366:PRO:HD3	1.91	0.41
1:U:568:THR:HG23	1:U:569:ASN:N	2.36	0.41
1:U:485:GLN:HB2	1:U:573:THR:HG22	2.02	0.41
1:U:427:SER:HB3	1:U:734:ASN:HA	2.02	0.41
1:V:314:LYS:HB3	1:V:314:LYS:HE3	1.85	0.41
1:W:446:SER:OG	1:W:447:ARG:N	2.52	0.41
1:E:449:ASN:HB2	1:X:498:SER:C	168.82	0.41
1:X:568:THR:HG23	1:X:569:ASN:N	2.35	0.41
1:Y:601:LEU:O	1:Y:604:MET:HG2	2.20	0.41
1:Z:568:THR:HG23	1:Z:569:ASN:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:308:PRO:HA	1:Z:684:TRP:HA	2.02	0.41
1:1:482:CYS:HB3	1:1:570:PRO:HG2	2.02	0.41
1:1:485:GLN:HB2	1:1:573:THR:HG22	2.02	0.41
1:2:548:GLU:O	1:2:552:VAL:HB	2.20	0.41
1:2:552:VAL:HG21	1:2:556:LYS:HD2	2.03	0.41
1:3:288:HIS:ND1	1:3:364:PRO:HG3	2.36	0.41
1:3:388:GLY:O	1:3:389:ARG:HB2	2.20	0.41
1:3:552:VAL:HG21	1:3:556:LYS:HD2	2.03	0.41
1:4:287:PHE:HD2	1:4:613:LEU:HA	1.85	0.41
1:4:473:GLN:O	1:4:475:ARG:HG3	2.20	0.41
1:4:601:LEU:O	1:4:604:MET:HG2	2.20	0.41
1:4:308:PRO:HA	1:4:684:TRP:HA	2.02	0.41
1:5:308:PRO:HA	1:5:684:TRP:HA	2.02	0.41
1:5:325:GLN:NE2	1:5:330:THR:HG22	2.34	0.41
1:5:482:CYS:HB3	1:5:570:PRO:HG2	2.03	0.41
1:8:339:THR:HG22	1:8:404:ARG:HG2	2.01	0.41
1:A:288:HIS:ND1	1:A:364:PRO:HG3	2.36	0.41
1:A:388:GLY:O	1:A:389:ARG:HB2	2.20	0.41
1:A:482:CYS:HB3	1:A:570:PRO:HG2	2.02	0.41
1:B:339:THR:HG22	1:B:404:ARG:HG2	2.01	0.41
1:B:496:ASN:HB2	1:B:498:SER:HB2	2.02	0.41
1:C:245:ARG:HE	1:C:363:PRO:HG2	1.85	0.41
1:C:555:GLU:N	1:C:555:GLU:OE1	2.46	0.41
1:D:260:ILE:N	1:D:274:GLY:O	2.41	0.41
1:D:526:HIS:CE1	1:D:531:GLU:H	2.39	0.41
1:D:552:VAL:HG21	1:D:556:LYS:HD2	2.03	0.41
1:D:545:GLN:NE2	1:D:721:SER:HA	2.36	0.41
1:E:354:LEU:O	1:E:356:SER:N	2.47	0.41
1:E:568:THR:HG23	1:E:569:ASN:N	2.35	0.41
1:E:608:ASP:HB3	1:E:609:ARG:H	1.53	0.41
1:E:651:THR:HA	1:E:652:PRO:HD3	1.92	0.41
1:F:522:ALA:HA	1:F:609:ARG:NH2	2.36	0.41
1:F:581:THR:OG1	1:F:592:THR:O	2.32	0.41
1:G:287:PHE:HE2	1:G:611:VAL:HG11	1.85	0.41
1:G:568:THR:HG23	1:G:569:ASN:N	2.36	0.41
1:G:287:PHE:HD2	1:G:613:LEU:HA	1.85	0.41
1:G:545:GLN:NE2	1:G:721:SER:HA	2.36	0.41
1:H:498:SER:C	1:Y:449:ASN:HB2	2.41	0.41
1:J:482:CYS:HB3	1:J:570:PRO:HG2	2.02	0.41
1:J:522:ALA:HA	1:J:609:ARG:NH2	2.36	0.41
1:J:545:GLN:NE2	1:J:721:SER:HA	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:300:ILE:HD11	1:J:728:THR:HA	2.02	0.41
1:K:287:PHE:HD2	1:K:613:LEU:HA	1.85	0.41
1:M:552:VAL:HG21	1:M:556:LYS:HD2	2.03	0.41
1:M:568:THR:HG23	1:M:569:ASN:N	2.36	0.41
1:M:545:GLN:NE2	1:M:721:SER:HA	2.36	0.41
1:M:427:SER:HB3	1:M:734:ASN:HA	2.02	0.41
1:D:586:GLY:O	1:N:496:ASN:HA	2.19	0.41
1:N:568:THR:HG23	1:N:569:ASN:N	2.35	0.41
1:N:601:LEU:O	1:N:604:MET:HG2	2.20	0.41
1:N:545:GLN:NE2	1:N:721:SER:HA	2.36	0.41
1:O:288:HIS:ND1	1:O:364:PRO:HG3	2.36	0.41
1:O:416:GLU:CG	1:O:417:ASP:N	2.82	0.41
1:O:449:ASN:HB2	1:P:498:SER:C	102.97	0.41
1:O:482:CYS:HB3	1:O:570:PRO:HG2	2.02	0.41
1:P:568:THR:HG23	1:P:569:ASN:N	2.36	0.41
1:P:601:LEU:O	1:P:604:MET:HG2	2.20	0.41
1:P:287:PHE:HE1	1:P:684:TRP:HH2	1.66	0.41
1:Q:314:LYS:HE3	1:Q:314:LYS:HB3	1.85	0.41
1:F:498:SER:C	1:Q:449:ASN:HB2	2.41	0.41
1:R:482:CYS:HB3	1:R:570:PRO:HG2	2.02	0.41
1:R:287:PHE:HD2	1:R:613:LEU:HA	1.85	0.41
1:S:446:SER:OG	1:S:447:ARG:N	2.52	0.41
1:P:696:PRO:HD3	1:S:712:PHE:HE2	108.53	0.41
1:T:388:GLY:O	1:T:389:ARG:HB2	2.20	0.41
1:T:482:CYS:HB3	1:T:570:PRO:HG2	2.02	0.41
1:U:548:GLU:O	1:U:552:VAL:HB	2.20	0.41
1:U:601:LEU:O	1:U:604:MET:HG2	2.20	0.41
1:V:244:THR:O	1:V:245:ARG:NH1	2.40	0.41
1:V:473:GLN:O	1:V:475:ARG:HG3	2.20	0.41
1:V:548:GLU:O	1:V:552:VAL:HB	2.20	0.41
1:V:308:PRO:HA	1:V:684:TRP:HA	2.02	0.41
1:W:522:ALA:HA	1:W:609:ARG:NH2	2.36	0.41
1:W:568:THR:HG23	1:W:569:ASN:N	2.35	0.41
1:W:300:ILE:HD11	1:W:728:THR:HA	2.02	0.41
1:X:545:GLN:NE2	1:X:721:SER:HA	2.36	0.41
1:X:449:ASN:HB2	1:Y:498:SER:C	102.97	0.41
1:Z:427:SER:HB3	1:Z:734:ASN:HA	2.02	0.41
1:Z:552:VAL:HG21	1:Z:556:LYS:HD2	2.03	0.41
1:Z:545:GLN:NE2	1:Z:721:SER:HA	2.36	0.41
1:1:568:THR:HG23	1:1:569:ASN:N	2.36	0.41
1:2:545:GLN:NE2	1:2:721:SER:HA	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:498:SER:C	1:4:449:ASN:HB2	2.41	0.41
1:Z:449:ASN:HB2	1:4:498:SER:C	2.41	0.41
1:5:260:ILE:N	1:5:274:GLY:O	2.41	0.41
1:5:497:ASN:CB	1:5:498:SER:HA	2.45	0.41
1:5:568:THR:HG23	1:5:569:ASN:N	2.36	0.41
1:6:388:GLY:O	1:6:389:ARG:HB2	2.20	0.41
1:6:446:SER:OG	1:6:447:ARG:N	2.52	0.41
1:7:526:HIS:CE1	1:7:531:GLU:H	2.39	0.41
1:A:555:GLU:N	1:A:555:GLU:OE1	2.46	0.41
1:A:552:VAL:HG21	1:A:556:LYS:HD2	2.03	0.41
1:B:300:ILE:HD11	1:B:728:THR:HA	2.02	0.41
1:B:325:GLN:NE2	1:B:330:THR:HG22	2.34	0.41
1:B:601:LEU:O	1:B:604:MET:HG2	2.20	0.41
1:C:253:ASN:O	1:C:254:ASN:HB2	2.21	0.41
1:C:482:CYS:HB3	1:C:570:PRO:HG2	2.02	0.41
1:C:498:SER:C	1:M:449:ASN:HB2	2.41	0.41
1:C:545:GLN:NE2	1:C:721:SER:HA	2.36	0.41
1:C:300:ILE:HD11	1:C:728:THR:HA	2.02	0.41
1:D:427:SER:HB3	1:D:734:ASN:HA	2.02	0.41
1:F:473:GLN:O	1:F:475:ARG:HG3	2.20	0.41
1:F:485:GLN:HB2	1:F:573:THR:HG22	2.02	0.41
1:F:287:PHE:HD2	1:F:613:LEU:HA	1.85	0.41
1:H:288:HIS:ND1	1:H:364:PRO:HG3	2.36	0.41
1:H:568:THR:HG23	1:H:569:ASN:N	2.35	0.41
1:I:568:THR:HG23	1:I:569:ASN:N	2.35	0.41
1:I:300:ILE:HD11	1:I:728:THR:HA	2.02	0.41
1:J:300:ILE:HG21	1:J:300:ILE:HD13	1.86	0.41
1:J:325:GLN:NE2	1:J:330:THR:HG22	2.34	0.41
1:J:485:GLN:HB2	1:J:573:THR:HG22	2.02	0.41
1:K:526:HIS:CE1	1:K:531:GLU:H	2.39	0.41
1:K:601:LEU:O	1:K:604:MET:HG2	2.20	0.41
1:J:449:ASN:HB2	1:L:498:SER:C	2.41	0.41
1:M:522:ALA:HA	1:M:609:ARG:NH2	2.36	0.41
1:N:244:THR:O	1:N:245:ARG:NH1	2.40	0.41
1:N:288:HIS:ND1	1:N:364:PRO:HG3	2.36	0.41
1:N:458:SER:OG	1:O:492:SER:OG	73.31	0.41
1:N:522:ALA:HA	1:N:609:ARG:NH2	2.36	0.41
1:N:552:VAL:HG21	1:N:556:LYS:HD2	2.03	0.41
1:O:308:PRO:HA	1:O:684:TRP:HA	2.02	0.41
1:P:388:GLY:O	1:P:389:ARG:HB2	2.20	0.41
1:Q:325:GLN:NE2	1:Q:330:THR:HG22	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:522:ALA:HA	1:Q:609:ARG:NH2	2.36	0.41
1:S:526:HIS:CE1	1:S:531:GLU:H	2.39	0.41
1:T:245:ARG:HE	1:T:363:PRO:HG2	1.85	0.41
1:T:545:GLN:NE2	1:T:721:SER:HA	2.36	0.41
1:T:568:THR:HG23	1:T:569:ASN:N	2.36	0.41
1:U:526:HIS:CE1	1:U:531:GLU:H	2.39	0.41
1:V:378:LEU:HA	1:V:378:LEU:HD23	1.75	0.41
1:V:498:SER:C	1:X:449:ASN:HB2	2.41	0.41
1:V:526:HIS:CE1	1:V:531:GLU:H	2.39	0.41
1:V:568:THR:HG23	1:V:569:ASN:N	2.36	0.41
1:V:427:SER:HB3	1:V:734:ASN:HA	2.02	0.41
1:W:244:THR:O	1:W:245:ARG:NH1	2.40	0.41
1:W:325:GLN:NE2	1:W:330:THR:HG22	2.34	0.41
1:W:526:HIS:CE1	1:W:531:GLU:H	2.39	0.41
1:W:620:LYS:HD3	1:W:642:PRO:CD	2.49	0.41
1:Y:321:LYS:HZ2	1:Y:332:ILE:HG21	1.88	0.41
1:Y:287:PHE:HD2	1:Y:613:LEU:HA	1.86	0.41
1:Y:651:THR:HA	1:Y:652:PRO:HD3	1.92	0.41
1:Z:522:ALA:HA	1:Z:609:ARG:NH2	2.36	0.41
1:1:388:GLY:O	1:1:389:ARG:HB2	2.20	0.41
1:1:601:LEU:O	1:1:604:MET:HG2	2.20	0.41
1:1:522:ALA:HA	1:1:609:ARG:NH2	2.36	0.41
1:2:427:SER:HB3	1:2:734:ASN:HA	2.02	0.41
1:3:308:PRO:HA	1:3:684:TRP:HA	2.02	0.41
1:3:716:THR:HG23	1:3:717:ASN:N	2.35	0.41
1:3:427:SER:HB3	1:3:734:ASN:HA	2.02	0.41
1:4:522:ALA:HA	1:4:609:ARG:NH2	2.36	0.41
1:4:287:PHE:HE2	1:4:611:VAL:HG11	1.85	0.41
1:5:427:SER:HB3	1:5:734:ASN:HA	2.02	0.41
1:6:473:GLN:O	1:6:475:ARG:HG3	2.20	0.41
1:7:325:GLN:NE2	1:7:330:THR:HG22	2.34	0.41
1:7:375:TYR:CG	1:7:376:GLY:N	2.86	0.41
1:7:482:CYS:HB3	1:7:570:PRO:HG2	2.02	0.41
1:8:446:SER:OG	1:8:447:ARG:N	2.52	0.41
1:8:545:GLN:NE2	1:8:721:SER:HA	2.36	0.41
1:A:522:ALA:HA	1:A:609:ARG:NH2	2.36	0.41
1:B:308:PRO:HA	1:B:684:TRP:HA	2.02	0.41
1:B:552:VAL:HG21	1:B:556:LYS:HD2	2.03	0.41
1:C:552:VAL:HG21	1:C:556:LYS:HD2	2.03	0.41
1:D:253:ASN:O	1:D:254:ASN:HB2	2.21	0.41
1:C:665:LYS:HB3	1:D:368:ASP:OD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:522:ALA:HA	1:D:609:ARG:NH2	2.36	0.41
1:E:526:HIS:CE1	1:E:531:GLU:H	2.39	0.41
1:E:522:ALA:HA	1:E:609:ARG:NH2	2.36	0.41
1:E:300:ILE:HD11	1:E:728:THR:HA	2.02	0.41
1:F:498:SER:C	1:G:449:ASN:HB2	106.00	0.41
1:G:552:VAL:HG21	1:G:556:LYS:HD2	2.03	0.41
1:H:522:ALA:HA	1:H:609:ARG:NH2	2.36	0.41
1:H:545:GLN:NE2	1:H:721:SER:HA	2.36	0.41
1:I:545:GLN:NE2	1:I:721:SER:HA	2.36	0.41
1:K:368:ASP:OD2	1:L:665:LYS:HB3	2.21	0.41
1:K:522:ALA:HA	1:K:609:ARG:NH2	2.36	0.41
1:K:545:GLN:NE2	1:K:721:SER:HA	2.36	0.41
1:N:287:PHE:HE2	1:N:611:VAL:HG11	1.85	0.41
1:N:287:PHE:HD2	1:N:613:LEU:HA	1.85	0.41
1:O:388:GLY:O	1:O:389:ARG:HB2	2.20	0.41
1:M:498:SER:C	1:O:449:ASN:HB2	119.85	0.41
1:O:545:GLN:NE2	1:O:721:SER:HA	2.36	0.41
1:O:427:SER:HB3	1:O:734:ASN:HA	2.02	0.41
1:P:497:ASN:CB	1:P:498:SER:HA	2.45	0.41
1:Q:253:ASN:O	1:Q:254:ASN:HB2	2.21	0.41
1:Q:499:GLU:HA	1:S:448:THR:CG2	104.26	0.41
1:Q:526:HIS:CE1	1:Q:531:GLU:H	2.39	0.41
1:Q:555:GLU:OE1	1:Q:555:GLU:N	2.46	0.41
1:S:288:HIS:ND1	1:S:364:PRO:HG3	2.36	0.41
1:S:545:GLN:NE2	1:S:721:SER:HA	2.36	0.41
1:T:385:GLN:HB3	1:T:386:ALA:H	1.63	0.41
1:T:522:ALA:HA	1:T:609:ARG:NH2	2.36	0.41
1:U:496:ASN:HB2	1:U:498:SER:HB2	2.02	0.41
1:X:325:GLN:NE2	1:X:330:THR:HG22	2.34	0.41
1:X:388:GLY:O	1:X:389:ARG:HB2	2.20	0.41
1:Y:365:PHE:HA	1:Y:366:PRO:HD3	1.91	0.41
1:Z:287:PHE:HE1	1:Z:684:TRP:HH2	1.66	0.41
1:1:339:THR:HG22	1:1:404:ARG:HG2	2.01	0.41
1:2:522:ALA:HA	1:2:609:ARG:NH2	2.36	0.41
1:2:287:PHE:HE2	1:2:611:VAL:HG11	1.85	0.41
1:3:601:LEU:O	1:3:604:MET:HG2	2.20	0.41
1:5:253:ASN:O	1:5:254:ASN:HB2	2.21	0.41
1:5:314:LYS:HE3	1:5:314:LYS:HB3	1.85	0.41
1:5:522:ALA:HA	1:5:609:ARG:NH2	2.36	0.41
1:6:288:HIS:ND1	1:6:364:PRO:HG3	2.35	0.41
1:7:716:THR:HG23	1:7:717:ASN:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:555:GLU:OE1	1:8:555:GLU:N	2.46	0.41
1:8:287:PHE:HD2	1:8:613:LEU:HA	1.86	0.41
1:A:526:HIS:CE1	1:A:531:GLU:H	2.39	0.41
1:D:482:CYS:HB3	1:D:570:PRO:HG2	2.03	0.41
1:D:601:LEU:O	1:D:604:MET:HG2	2.20	0.41
1:E:482:CYS:HB3	1:E:570:PRO:HG2	2.02	0.41
1:E:498:SER:C	1:V:449:ASN:HB2	188.95	0.41
1:F:325:GLN:NE2	1:F:330:THR:HG22	2.34	0.41
1:F:354:LEU:O	1:F:356:SER:N	2.47	0.41
1:G:288:HIS:ND1	1:G:364:PRO:HG3	2.35	0.41
1:H:526:HIS:CE1	1:H:531:GLU:H	2.39	0.41
1:I:253:ASN:O	1:I:254:ASN:HB2	2.21	0.41
1:J:427:SER:HB3	1:J:734:ASN:HA	2.02	0.41
1:K:253:ASN:O	1:K:254:ASN:HB2	2.21	0.41
1:K:581:THR:OG1	1:K:592:THR:O	2.32	0.41
1:L:253:ASN:O	1:L:254:ASN:HB2	2.21	0.41
1:D:449:ASN:HB2	1:L:498:SER:C	161.45	0.41
1:L:552:VAL:HG21	1:L:556:LYS:HD2	2.03	0.41
1:L:545:GLN:NE2	1:L:721:SER:HA	2.36	0.41
1:B:449:ASN:HB2	1:M:498:SER:C	143.66	0.41
1:C:448:THR:CG2	1:O:499:GLU:HA	167.29	0.41
1:C:357:ALA:HB1	1:P:441:TYR:CZ	49.16	0.41
1:C:496:ASN:H	1:P:586:GLY:HA2	81.77	0.41
1:P:287:PHE:HD2	1:P:613:LEU:HA	1.86	0.41
1:Q:427:SER:HB3	1:Q:734:ASN:HA	2.02	0.41
1:R:287:PHE:HE2	1:R:611:VAL:HG11	1.85	0.41
1:R:522:ALA:HA	1:R:609:ARG:NH2	2.36	0.41
1:S:545:GLN:HA	1:S:546:GLY:HA2	1.77	0.41
1:S:522:ALA:HA	1:S:609:ARG:NH2	2.36	0.41
1:V:339:THR:HG22	1:V:404:ARG:HG2	2.01	0.41
1:W:308:PRO:HA	1:W:684:TRP:HA	2.02	0.41
1:X:473:GLN:O	1:X:475:ARG:HG3	2.20	0.41
1:W:498:SER:C	1:Y:449:ASN:HB2	46.38	0.41
1:Y:522:ALA:HA	1:Y:609:ARG:NH2	2.36	0.41
1:3:253:ASN:O	1:3:254:ASN:HB2	2.21	0.41
1:Z:498:SER:C	1:3:449:ASN:HB2	2.41	0.41
1:3:545:GLN:NE2	1:3:721:SER:HA	2.36	0.41
1:4:446:SER:OG	1:4:447:ARG:N	2.53	0.41
1:4:526:HIS:CE1	1:4:531:GLU:H	2.39	0.41
1:5:608:ASP:HB3	1:5:609:ARG:H	1.53	0.41
1:6:300:ILE:HD11	1:6:728:THR:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:245:ARG:HE	1:6:363:PRO:HG2	1.85	0.41
1:8:526:HIS:CE1	1:8:531:GLU:H	2.39	0.41
1:B:245:ARG:HE	1:B:363:PRO:HG2	1.85	0.41
1:B:354:LEU:O	1:B:356:SER:N	2.47	0.41
1:B:498:SER:C	1:L:449:ASN:HB2	2.41	0.41
1:B:287:PHE:HE2	1:B:611:VAL:HG11	1.85	0.41
1:C:522:ALA:HA	1:C:609:ARG:NH2	2.36	0.41
1:D:287:PHE:HE2	1:D:611:VAL:HG11	1.85	0.41
1:E:388:GLY:O	1:E:389:ARG:HB2	2.20	0.41
1:F:386:ALA:O	1:Z:706:LYS:HD2	153.79	0.41
1:F:508:TYR:O	1:F:515:SER:N	2.48	0.41
1:G:253:ASN:O	1:G:254:ASN:HB2	2.21	0.41
1:G:446:SER:OG	1:G:447:ARG:N	2.52	0.41
1:G:497:ASN:CB	1:G:498:SER:HA	2.45	0.41
1:G:308:PRO:HA	1:G:684:TRP:HA	2.02	0.41
1:H:568:THR:HG23	1:H:569:ASN:H	1.86	0.41
1:H:654:PRO:HB2	1:H:666:PHE:HE1	1.86	0.41
1:B:449:ASN:HB2	1:J:498:SER:C	2.41	0.41
1:J:601:LEU:O	1:J:604:MET:HG2	2.20	0.41
1:K:260:ILE:N	1:K:274:GLY:O	2.41	0.41
1:I:492:SER:OG	1:K:458:SER:OG	119.46	0.41
1:L:288:HIS:ND1	1:L:364:PRO:HG3	2.36	0.41
1:L:482:CYS:HB3	1:L:570:PRO:HG2	2.02	0.41
1:M:354:LEU:O	1:M:356:SER:N	2.47	0.41
1:M:526:HIS:CE1	1:M:531:GLU:H	2.39	0.41
1:N:325:GLN:NE2	1:N:330:THR:HG22	2.34	0.41
1:N:526:HIS:CE1	1:N:531:GLU:H	2.39	0.41
1:O:253:ASN:O	1:O:254:ASN:HB2	2.21	0.41
1:O:526:HIS:CE1	1:O:531:GLU:H	2.39	0.41
1:P:253:ASN:O	1:P:254:ASN:HB2	2.21	0.41
1:N:449:ASN:HB2	1:P:498:SER:C	2.41	0.41
1:P:526:HIS:CE1	1:P:531:GLU:H	2.39	0.41
1:Q:545:GLN:HE21	1:Q:721:SER:HA	1.86	0.41
1:Q:545:GLN:NE2	1:Q:721:SER:HA	2.36	0.41
1:R:253:ASN:O	1:R:254:ASN:HB2	2.21	0.41
1:R:498:SER:C	1:U:449:ASN:HB2	2.41	0.41
1:R:526:HIS:CE1	1:R:531:GLU:H	2.39	0.41
1:S:552:VAL:HG21	1:S:556:LYS:HD2	2.03	0.41
1:T:526:HIS:CE1	1:T:531:GLU:H	2.39	0.41
1:U:253:ASN:O	1:U:254:ASN:HB2	2.21	0.41
1:U:482:CYS:HB3	1:U:570:PRO:HG2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:545:GLN:HE21	1:U:721:SER:HA	1.86	0.41
1:U:545:GLN:NE2	1:U:721:SER:HA	2.36	0.41
1:V:545:GLN:HE21	1:V:721:SER:HA	1.86	0.41
1:W:427:SER:HB3	1:W:734:ASN:HA	2.02	0.41
1:W:449:ASN:HB2	1:X:498:SER:C	74.21	0.41
1:X:287:PHE:HD2	1:X:613:LEU:HA	1.85	0.41
1:Y:253:ASN:O	1:Y:254:ASN:HB2	2.21	0.41
1:Y:545:GLN:HE21	1:Y:721:SER:HA	1.86	0.41
1:Z:253:ASN:O	1:Z:254:ASN:HB2	2.21	0.41
1:Z:526:HIS:CE1	1:Z:531:GLU:H	2.39	0.41
1:1:253:ASN:O	1:1:254:ASN:HB2	2.21	0.41
1:1:526:HIS:CE1	1:1:531:GLU:H	2.39	0.41
1:1:545:GLN:HE21	1:1:721:SER:HA	1.86	0.41
1:3:568:THR:HG23	1:3:569:ASN:N	2.35	0.41
1:3:287:PHE:HD2	1:3:613:LEU:HA	1.85	0.41
1:4:289:CYS:HB2	1:4:290:HIS:CE1	2.56	0.41
1:4:321:LYS:HZ2	1:4:332:ILE:HG21	1.86	0.41
1:4:545:GLN:HE21	1:4:721:SER:HA	1.86	0.41
1:5:287:PHE:HE1	1:5:684:TRP:HH2	1.66	0.41
1:5:449:ASN:HB2	1:6:498:SER:C	2.42	0.41
1:5:601:LEU:O	1:5:604:MET:HG2	2.20	0.41
1:5:665:LYS:HB3	1:8:368:ASP:OD2	2.21	0.41
1:5:545:GLN:HE21	1:5:721:SER:HA	1.86	0.41
1:6:253:ASN:O	1:6:254:ASN:HB2	2.21	0.41
1:7:253:ASN:O	1:7:254:ASN:HB2	2.21	0.41
1:7:388:GLY:O	1:7:389:ARG:HB2	2.20	0.41
1:B:568:THR:HG23	1:B:569:ASN:H	1.86	0.41
1:C:568:THR:HG23	1:C:569:ASN:N	2.35	0.41
1:D:545:GLN:HE21	1:D:721:SER:HA	1.86	0.41
1:D:581:THR:OG1	1:D:592:THR:O	2.32	0.41
1:E:253:ASN:O	1:E:254:ASN:HB2	2.21	0.41
1:E:497:ASN:CB	1:E:498:SER:HA	2.45	0.41
1:E:427:SER:HB3	1:E:734:ASN:HA	2.02	0.41
1:F:608:ASP:HB3	1:F:609:ARG:H	1.53	0.41
1:G:289:CYS:HB2	1:G:290:HIS:CE1	2.56	0.41
1:H:545:GLN:HE21	1:H:721:SER:HA	1.86	0.41
1:H:552:VAL:HG21	1:H:556:LYS:HD2	2.03	0.41
1:I:289:CYS:HB2	1:I:290:HIS:CE1	2.56	0.41
1:I:552:VAL:HG21	1:I:556:LYS:HD2	2.03	0.41
1:I:522:ALA:HA	1:I:609:ARG:NH2	2.36	0.41
1:K:388:GLY:O	1:K:389:ARG:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:654:PRO:HB2	1:K:666:PHE:HE1	1.86	0.41
1:K:545:GLN:HE21	1:K:721:SER:HA	1.86	0.41
1:M:253:ASN:O	1:M:254:ASN:HB2	2.21	0.41
1:N:545:GLN:HA	1:N:546:GLY:HA2	1.77	0.41
1:N:545:GLN:HE21	1:N:721:SER:HA	1.86	0.41
1:N:427:SER:HB3	1:N:734:ASN:HA	2.02	0.41
1:O:522:ALA:HA	1:O:609:ARG:NH2	2.36	0.41
1:P:522:ALA:HA	1:P:609:ARG:NH2	2.36	0.41
1:P:654:PRO:HB2	1:P:666:PHE:HE1	1.86	0.41
1:Q:289:CYS:HB2	1:Q:290:HIS:CE1	2.56	0.41
1:R:545:GLN:NE2	1:R:721:SER:HA	2.36	0.41
1:R:568:THR:HG23	1:R:569:ASN:H	1.86	0.41
1:S:253:ASN:O	1:S:254:ASN:HB2	2.21	0.41
1:S:654:PRO:HB2	1:S:666:PHE:HE1	1.86	0.41
1:T:253:ASN:O	1:T:254:ASN:HB2	2.21	0.41
1:T:449:ASN:HB2	1:U:498:SER:C	102.96	0.41
1:U:289:CYS:HB2	1:U:290:HIS:CE1	2.56	0.41
1:U:388:GLY:O	1:U:389:ARG:HB2	2.20	0.41
1:U:654:PRO:HB2	1:U:666:PHE:HE1	1.86	0.41
1:V:289:CYS:HB2	1:V:290:HIS:CE1	2.56	0.41
1:W:545:GLN:NE2	1:W:721:SER:HA	2.36	0.41
1:R:665:LYS:HB3	1:X:368:ASP:OD2	80.13	0.41
1:X:368:ASP:OD2	1:Y:665:LYS:HB3	2.21	0.41
1:Y:289:CYS:HB2	1:Y:290:HIS:CE1	2.56	0.41
1:1:308:PRO:HA	1:1:684:TRP:HA	2.02	0.41
1:Z:586:GLY:O	1:1:496:ASN:HA	100.68	0.41
1:2:354:LEU:O	1:2:356:SER:N	2.47	0.41
1:2:526:HIS:CE1	1:2:531:GLU:H	2.39	0.41
1:3:496:ASN:HB2	1:3:498:SER:HB2	2.02	0.41
1:4:427:SER:HB3	1:4:734:ASN:HA	2.02	0.41
1:3:492:SER:OG	1:4:458:SER:OG	2.32	0.41
1:5:714:VAL:HG21	1:5:718:GLY:HA2	2.01	0.41
1:6:449:ASN:HB2	1:7:498:SER:C	2.41	0.41
1:6:526:HIS:CE1	1:6:531:GLU:H	2.39	0.41
1:6:608:ASP:HB3	1:6:609:ARG:H	1.53	0.41
1:7:568:THR:HG23	1:7:569:ASN:N	2.36	0.41
1:7:522:ALA:HA	1:7:609:ARG:NH2	2.36	0.41
1:7:427:SER:HB3	1:7:734:ASN:HA	2.02	0.41
1:8:244:THR:O	1:8:245:ARG:NH1	2.40	0.41
1:A:449:ASN:HB2	1:8:498:SER:C	188.50	0.41
1:8:568:THR:HG23	1:8:569:ASN:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:289:CYS:HB2	1:A:290:HIS:CE1	2.56	0.41
1:C:508:TYR:O	1:C:515:SER:N	2.48	0.41
1:C:526:HIS:CE1	1:C:531:GLU:H	2.39	0.41
1:F:253:ASN:O	1:F:254:ASN:HB2	2.21	0.41
1:F:321:LYS:HZ2	1:F:332:ILE:HG21	1.86	0.41
1:F:545:GLN:NE2	1:F:721:SER:HA	2.36	0.41
1:G:545:GLN:HE21	1:G:721:SER:HA	1.86	0.41
1:H:260:ILE:N	1:H:274:GLY:O	2.41	0.41
1:H:378:LEU:HA	1:H:378:LEU:HD23	1.75	0.41
1:H:287:PHE:HD2	1:H:613:LEU:HA	1.86	0.41
1:I:545:GLN:HE21	1:I:721:SER:HA	1.86	0.41
1:I:654:PRO:HB2	1:I:666:PHE:HE1	1.86	0.41
1:I:449:ASN:HB2	1:J:498:SER:C	102.94	0.41
1:J:526:HIS:CE1	1:J:531:GLU:H	2.39	0.41
1:J:608:ASP:HB3	1:J:609:ARG:H	1.53	0.41
1:K:379:THR:OG1	1:K:380:LEU:N	2.54	0.41
1:M:654:PRO:HB2	1:M:666:PHE:HE1	1.86	0.41
1:N:289:CYS:HB2	1:N:290:HIS:CE1	2.56	0.41
1:O:289:CYS:HB2	1:O:290:HIS:CE1	2.56	0.41
1:P:568:THR:HG23	1:P:569:ASN:H	1.86	0.41
1:Q:349:GLN:HG2	1:S:692:LYS:HD3	91.84	0.41
1:Q:288:HIS:ND1	1:Q:364:PRO:HG3	2.36	0.41
1:Q:568:THR:HG23	1:Q:569:ASN:H	1.86	0.41
1:R:289:CYS:HB2	1:R:290:HIS:CE1	2.56	0.41
1:S:388:GLY:O	1:S:389:ARG:HB2	2.20	0.41
1:S:568:THR:HG23	1:S:569:ASN:H	1.87	0.41
1:V:253:ASN:O	1:V:254:ASN:HB2	2.21	0.41
1:V:568:THR:HG23	1:V:569:ASN:H	1.86	0.41
1:W:289:CYS:HB2	1:W:290:HIS:CE1	2.56	0.41
1:W:314:LYS:HB3	1:W:314:LYS:HE3	1.85	0.41
1:W:345:ASP:N	1:W:345:ASP:OD1	2.55	0.41
1:W:568:THR:HG23	1:W:569:ASN:H	1.86	0.41
1:X:245:ARG:HE	1:X:363:PRO:HG2	1.85	0.41
1:X:526:HIS:CE1	1:X:531:GLU:H	2.39	0.41
1:X:552:VAL:HG21	1:X:556:LYS:HD2	2.03	0.41
1:Y:568:THR:HG23	1:Y:569:ASN:H	1.86	0.41
1:Z:300:ILE:HG21	1:Z:300:ILE:HD13	1.86	0.41
1:Z:365:PHE:HA	1:Z:366:PRO:HD3	1.91	0.41
1:Z:654:PRO:HB2	1:Z:666:PHE:HE1	1.86	0.41
1:2:289:CYS:HB2	1:2:290:HIS:CE1	2.56	0.40
1:2:601:LEU:O	1:2:604:MET:HG2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:568:THR:HG23	1:4:569:ASN:H	1.86	0.40
1:5:568:THR:HG23	1:5:569:ASN:H	1.86	0.40
1:5:654:PRO:HB2	1:5:666:PHE:HE1	1.86	0.40
1:6:287:PHE:HD2	1:6:613:LEU:HA	1.85	0.40
1:6:715:ASP:CG	1:6:716:THR:N	2.75	0.40
1:6:545:GLN:NE2	1:6:721:SER:HA	2.36	0.40
1:7:345:ASP:N	1:7:345:ASP:OD1	2.55	0.40
1:7:497:ASN:CB	1:7:498:SER:HA	2.45	0.40
1:8:522:ALA:HA	1:8:609:ARG:NH2	2.36	0.40
1:A:253:ASN:O	1:A:254:ASN:HB2	2.21	0.40
1:A:526:HIS:CE1	1:A:527:LYS:O	2.75	0.40
1:A:427:SER:HB3	1:A:734:ASN:HA	2.02	0.40
1:B:253:ASN:O	1:B:254:ASN:HB2	2.21	0.40
1:B:289:CYS:HB2	1:B:290:HIS:CE1	2.56	0.40
1:B:498:SER:C	1:C:449:ASN:HB2	102.97	0.40
1:B:522:ALA:HA	1:B:609:ARG:NH2	2.36	0.40
1:B:568:THR:HG23	1:B:569:ASN:N	2.35	0.40
1:C:654:PRO:HB2	1:C:666:PHE:HE1	1.86	0.40
1:D:289:CYS:HB2	1:D:290:HIS:CE1	2.56	0.40
1:D:354:LEU:O	1:D:356:SER:N	2.47	0.40
1:D:308:PRO:HA	1:D:684:TRP:HA	2.02	0.40
1:E:345:ASP:N	1:E:345:ASP:OD1	2.54	0.40
1:D:665:LYS:HB3	1:E:368:ASP:OD2	2.22	0.40
1:E:715:ASP:CG	1:E:716:THR:N	2.75	0.40
1:F:526:HIS:CE1	1:F:531:GLU:H	2.39	0.40
1:F:715:ASP:CG	1:F:716:THR:N	2.75	0.40
1:G:345:ASP:N	1:G:345:ASP:OD1	2.54	0.40
1:G:379:THR:OG1	1:G:380:LEU:N	2.54	0.40
1:G:498:SER:C	1:H:449:ASN:HB2	74.20	0.40
1:G:715:ASP:CG	1:G:716:THR:N	2.75	0.40
1:H:289:CYS:HB2	1:H:290:HIS:CE1	2.56	0.40
1:H:365:PHE:HA	1:H:366:PRO:HD3	1.91	0.40
1:H:379:THR:OG1	1:H:380:LEU:N	2.54	0.40
1:H:388:GLY:O	1:H:389:ARG:HB2	2.20	0.40
1:I:379:THR:OG1	1:I:380:LEU:N	2.54	0.40
1:I:568:THR:HG23	1:I:569:ASN:H	1.86	0.40
1:J:289:CYS:HB2	1:J:290:HIS:CE1	2.56	0.40
1:J:526:HIS:CE1	1:J:527:LYS:O	2.75	0.40
1:L:526:HIS:CE1	1:L:531:GLU:H	2.39	0.40
1:M:289:CYS:HB2	1:M:290:HIS:CE1	2.56	0.40
1:M:715:ASP:CG	1:M:716:THR:N	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:345:ASP:N	1:N:345:ASP:OD1	2.54	0.40
1:N:568:THR:HG23	1:N:569:ASN:H	1.86	0.40
1:O:345:ASP:OD1	1:O:345:ASP:N	2.54	0.40
1:O:651:THR:HA	1:O:652:PRO:HD3	1.92	0.40
1:O:545:GLN:HE21	1:O:721:SER:HA	1.86	0.40
1:P:379:THR:OG1	1:P:380:LEU:N	2.54	0.40
1:Q:447:ARG:NH1	1:Q:450:THR:HG22	2.36	0.40
1:R:651:THR:HA	1:R:652:PRO:HD3	1.92	0.40
1:S:287:PHE:HD2	1:S:613:LEU:HA	1.85	0.40
1:S:289:CYS:HB2	1:S:290:HIS:CE1	2.56	0.40
1:S:345:ASP:OD1	1:S:345:ASP:N	2.54	0.40
1:S:449:ASN:HB2	1:U:498:SER:C	2.41	0.40
1:S:545:GLN:HE21	1:S:721:SER:HA	1.86	0.40
1:T:287:PHE:HD2	1:T:613:LEU:HA	1.85	0.40
1:T:289:CYS:HB2	1:T:290:HIS:CE1	2.56	0.40
1:T:498:SER:C	1:V:449:ASN:HB2	119.85	0.40
1:T:545:GLN:HE21	1:T:721:SER:HA	1.86	0.40
1:U:568:THR:HG23	1:U:569:ASN:H	1.87	0.40
1:V:526:HIS:CE1	1:V:527:LYS:O	2.75	0.40
1:V:552:VAL:HG21	1:V:556:LYS:HD2	2.03	0.40
1:W:715:ASP:CG	1:W:716:THR:N	2.75	0.40
1:W:449:ASN:HB2	1:Y:498:SER:C	2.41	0.40
1:Y:545:GLN:NE2	1:Y:721:SER:HA	2.36	0.40
1:1:260:ILE:N	1:1:274:GLY:O	2.41	0.40
1:3:526:HIS:CE1	1:3:531:GLU:H	2.39	0.40
1:4:345:ASP:N	1:4:345:ASP:OD1	2.54	0.40
1:4:482:CYS:HB3	1:4:570:PRO:HG2	2.02	0.40
1:4:568:THR:HG23	1:4:569:ASN:N	2.35	0.40
1:4:545:GLN:NE2	1:4:721:SER:HA	2.36	0.40
1:5:288:HIS:ND1	1:5:364:PRO:HG3	2.36	0.40
1:5:345:ASP:N	1:5:345:ASP:OD1	2.54	0.40
1:5:545:GLN:NE2	1:5:721:SER:HA	2.36	0.40
1:6:568:THR:HG23	1:6:569:ASN:N	2.36	0.40
1:K:665:LYS:HB3	1:7:368:ASP:OD2	2.22	0.40
1:7:439:ASP:N	1:7:439:ASP:OD1	2.55	0.40
1:8:545:GLN:HE21	1:8:721:SER:HA	1.86	0.40
1:8:654:PRO:HB2	1:8:666:PHE:HE1	1.86	0.40
1:8:300:ILE:HD11	1:8:728:THR:HA	2.02	0.40
1:A:379:THR:OG1	1:A:380:LEU:N	2.54	0.40
1:A:568:THR:HG23	1:A:569:ASN:H	1.86	0.40
1:A:545:GLN:HE21	1:A:721:SER:HA	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:482:CYS:HB3	1:B:570:PRO:HG2	2.02	0.40
1:B:485:GLN:HB2	1:B:573:THR:HG22	2.02	0.40
1:B:287:PHE:HD2	1:B:613:LEU:HA	1.85	0.40
1:C:379:THR:OG1	1:C:380:LEU:N	2.55	0.40
1:C:496:ASN:HB2	1:C:498:SER:HB2	2.02	0.40
1:C:526:HIS:CE1	1:C:527:LYS:O	2.75	0.40
1:D:300:ILE:HG21	1:D:300:ILE:HD13	1.86	0.40
1:D:365:PHE:HA	1:D:366:PRO:HD3	1.91	0.40
1:D:568:THR:HG23	1:D:569:ASN:H	1.87	0.40
1:E:321:LYS:HZ2	1:E:332:ILE:HG21	1.92	0.40
1:E:439:ASP:OD1	1:E:439:ASP:N	2.55	0.40
1:E:545:GLN:NE2	1:E:721:SER:HA	2.36	0.40
1:G:496:ASN:HB2	1:G:498:SER:HB2	2.02	0.40
1:G:526:HIS:CE1	1:G:531:GLU:H	2.39	0.40
1:G:665:LYS:HB3	1:K:368:ASP:OD2	168.12	0.40
1:I:345:ASP:N	1:I:345:ASP:OD1	2.54	0.40
1:I:427:SER:HB3	1:I:734:ASN:HA	2.02	0.40
1:I:526:HIS:CE1	1:I:527:LYS:O	2.75	0.40
1:I:526:HIS:CE1	1:I:531:GLU:H	2.39	0.40
1:J:368:ASP:OD2	1:X:665:LYS:HB3	160.15	0.40
1:J:378:LEU:HD23	1:J:378:LEU:HA	1.75	0.40
1:J:568:THR:HG23	1:J:569:ASN:H	1.86	0.40
1:J:715:ASP:CG	1:J:716:THR:N	2.75	0.40
1:K:439:ASP:OD1	1:K:439:ASP:N	2.55	0.40
1:K:526:HIS:CE1	1:K:527:LYS:O	2.75	0.40
1:K:568:THR:HG23	1:K:569:ASN:H	1.86	0.40
1:L:526:HIS:CE1	1:L:527:LYS:O	2.75	0.40
1:M:300:ILE:HG21	1:M:300:ILE:HD13	1.86	0.40
1:M:439:ASP:N	1:M:439:ASP:OD1	2.55	0.40
1:M:526:HIS:CE1	1:M:527:LYS:O	2.75	0.40
1:N:253:ASN:O	1:N:254:ASN:HB2	2.21	0.40
1:N:321:LYS:HZ2	1:N:332:ILE:HG21	1.89	0.40
1:N:449:ASN:HB2	1:O:498:SER:C	74.20	0.40
1:N:526:HIS:CE1	1:N:527:LYS:O	2.75	0.40
1:N:654:PRO:HB2	1:N:666:PHE:HE1	1.86	0.40
1:O:379:THR:OG1	1:O:380:LEU:N	2.54	0.40
1:D:368:ASP:OD2	1:O:665:LYS:HB3	127.37	0.40
1:P:345:ASP:OD1	1:P:345:ASP:N	2.54	0.40
1:P:545:GLN:HE21	1:P:721:SER:HA	1.86	0.40
1:P:715:ASP:CG	1:P:716:THR:N	2.75	0.40
1:Q:654:PRO:HB2	1:Q:666:PHE:HE1	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:345:ASP:OD1	1:R:345:ASP:N	2.54	0.40
1:Q:449:ASN:HB2	1:R:498:SER:C	74.20	0.40
1:U:288:HIS:ND1	1:U:364:PRO:HG3	2.36	0.40
1:U:526:HIS:CE1	1:U:527:LYS:O	2.75	0.40
1:V:321:LYS:HZ2	1:V:332:ILE:HG21	1.89	0.40
1:U:449:ASN:HB2	1:V:498:SER:C	74.20	0.40
1:V:715:ASP:CG	1:V:716:THR:N	2.75	0.40
1:W:545:GLN:HE21	1:W:721:SER:HA	1.86	0.40
1:Y:526:HIS:CE1	1:Y:531:GLU:H	2.39	0.40
1:Y:552:VAL:HG21	1:Y:556:LYS:HD2	2.03	0.40
1:F:665:LYS:HB3	1:Z:368:ASP:OD2	139.84	0.40
1:Z:715:ASP:CG	1:Z:716:THR:N	2.75	0.40
1:1:325:GLN:NE2	1:1:330:THR:HG22	2.34	0.40
1:1:552:VAL:HG21	1:1:556:LYS:HD2	2.03	0.40
1:2:545:GLN:HE21	1:2:721:SER:HA	1.86	0.40
1:4:288:HIS:ND1	1:4:364:PRO:HG3	2.36	0.40
1:4:654:PRO:HB2	1:4:666:PHE:HE1	1.86	0.40
1:5:289:CYS:HB2	1:5:290:HIS:CE1	2.56	0.40
1:5:552:VAL:HG21	1:5:556:LYS:HD2	2.03	0.40
1:6:287:PHE:HE1	1:6:684:TRP:HH2	1.66	0.40
1:7:300:ILE:HD11	1:7:728:THR:HA	2.02	0.40
1:8:314:LYS:HB3	1:8:314:LYS:HE3	1.85	0.40
1:8:447:ARG:NH1	1:8:450:THR:HG22	2.36	0.40
1:8:568:THR:HG23	1:8:569:ASN:N	2.36	0.40
1:A:345:ASP:N	1:A:345:ASP:OD1	2.54	0.40
1:B:545:GLN:NE2	1:B:721:SER:HA	2.36	0.40
1:C:568:THR:HG23	1:C:569:ASN:H	1.86	0.40
1:D:526:HIS:CE1	1:D:527:LYS:O	2.75	0.40
1:F:289:CYS:HB2	1:F:290:HIS:CE1	2.56	0.40
1:E:498:SER:C	1:F:449:ASN:HB2	2.42	0.40
1:F:568:THR:HG23	1:F:569:ASN:H	1.87	0.40
1:G:526:HIS:CE1	1:G:527:LYS:O	2.75	0.40
1:G:545:GLN:HA	1:G:546:GLY:HA2	1.77	0.40
1:G:568:THR:HG23	1:G:569:ASN:H	1.86	0.40
1:H:439:ASP:N	1:H:439:ASP:OD1	2.55	0.40
1:H:715:ASP:CG	1:H:716:THR:N	2.75	0.40
1:I:496:ASN:HB2	1:I:498:SER:HB2	2.02	0.40
1:B:712:PHE:CE2	1:I:696:PRO:HD3	2.56	0.40
1:J:545:GLN:HE21	1:J:721:SER:HA	1.86	0.40
1:K:289:CYS:HB2	1:K:290:HIS:CE1	2.56	0.40
1:L:568:THR:HG23	1:L:569:ASN:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:289:CYS:HB2	1:P:290:HIS:CE1	2.56	0.40
1:Q:345:ASP:OD1	1:Q:345:ASP:N	2.54	0.40
1:R:526:HIS:CE1	1:R:527:LYS:O	2.75	0.40
1:R:427:SER:HB3	1:R:734:ASN:HA	2.02	0.40
1:S:260:ILE:N	1:S:274:GLY:O	2.41	0.40
1:S:496:ASN:HB2	1:S:498:SER:HB2	2.02	0.40
1:T:468:SER:OG	1:T:469:ASP:N	2.55	0.40
1:U:345:ASP:N	1:U:345:ASP:OD1	2.54	0.40
1:U:522:ALA:HA	1:U:609:ARG:NH2	2.36	0.40
1:U:715:ASP:CG	1:U:716:THR:N	2.75	0.40
1:V:439:ASP:OD1	1:V:439:ASP:N	2.55	0.40
1:X:345:ASP:N	1:X:345:ASP:OD1	2.54	0.40
1:X:351:PRO:O	1:X:375:TYR:OH	2.40	0.40
1:X:654:PRO:HB2	1:X:666:PHE:HE1	1.86	0.40
1:Y:439:ASP:OD1	1:Y:439:ASP:N	2.55	0.40
1:Z:289:CYS:HB2	1:Z:290:HIS:CE1	2.56	0.40
1:Z:439:ASP:N	1:Z:439:ASP:OD1	2.55	0.40
1:Z:458:SER:OG	1:4:492:SER:OG	2.32	0.40
1:Z:545:GLN:HE21	1:Z:721:SER:HA	1.86	0.40
1:2:485:GLN:HB2	1:2:573:THR:HG22	2.02	0.40
1:2:654:PRO:HB2	1:2:666:PHE:HE1	1.86	0.40
1:2:287:PHE:HE1	1:2:684:TRP:HH2	1.66	0.40
1:3:289:CYS:HB2	1:3:290:HIS:CE1	2.56	0.40
1:4:245:ARG:HE	1:4:363:PRO:HG2	1.85	0.40
1:6:289:CYS:HB2	1:6:290:HIS:CE1	2.56	0.40
1:6:485:GLN:HB2	1:6:573:THR:HG22	2.02	0.40
1:6:522:ALA:HA	1:6:609:ARG:NH2	2.36	0.40
1:7:288:HIS:ND1	1:7:364:PRO:HG3	2.36	0.40
1:7:468:SER:OG	1:7:469:ASP:N	2.55	0.40
1:8:439:ASP:OD1	1:8:439:ASP:N	2.55	0.40
1:8:601:LEU:O	1:8:604:MET:HG2	2.20	0.40
1:A:715:ASP:CG	1:A:716:THR:N	2.75	0.40
1:B:300:ILE:HG21	1:B:300:ILE:HD13	1.86	0.40
1:C:345:ASP:N	1:C:345:ASP:OD1	2.54	0.40
1:C:545:GLN:HE21	1:C:721:SER:HA	1.86	0.40
1:D:439:ASP:OD1	1:D:439:ASP:N	2.55	0.40
1:D:654:PRO:HB2	1:D:666:PHE:HE1	1.86	0.40
1:E:289:CYS:HB2	1:E:290:HIS:CE1	2.56	0.40
1:E:468:SER:OG	1:E:469:ASP:N	2.55	0.40
1:F:368:ASP:OD2	1:X:665:LYS:HB3	139.92	0.40
1:F:447:ARG:NH1	1:F:450:THR:HG22	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:452:SER:CB	1:F:453:GLY:HA3	2.49	0.40
1:F:545:GLN:HE21	1:F:721:SER:HA	1.86	0.40
1:F:654:PRO:HB2	1:F:666:PHE:HE1	1.86	0.40
1:G:300:ILE:HG21	1:G:300:ILE:HD13	1.86	0.40
1:G:468:SER:OG	1:G:469:ASP:N	2.55	0.40
1:G:581:THR:OG1	1:G:592:THR:O	2.32	0.40
1:G:522:ALA:HA	1:G:609:ARG:NH2	2.36	0.40
1:H:253:ASN:O	1:H:254:ASN:HB2	2.21	0.40
1:E:368:ASP:OD2	1:H:665:LYS:HB3	153.57	0.40
1:I:498:SER:C	1:K:449:ASN:HB2	119.85	0.40
1:I:497:ASN:CB	1:I:498:SER:HA	2.45	0.40
1:J:253:ASN:O	1:J:254:ASN:HB2	2.21	0.40
1:J:351:PRO:O	1:J:375:TYR:OH	2.40	0.40
1:J:439:ASP:N	1:J:439:ASP:OD1	2.55	0.40
1:J:552:VAL:HG21	1:J:556:LYS:HD2	2.03	0.40
1:K:365:PHE:HA	1:K:366:PRO:HD3	1.91	0.40
1:K:715:ASP:CG	1:K:716:THR:N	2.75	0.40
1:L:468:SER:OG	1:L:469:ASP:N	2.55	0.40
1:M:351:PRO:O	1:M:375:TYR:OH	2.40	0.40
1:M:368:ASP:OD2	1:N:665:LYS:HB3	2.22	0.40
1:M:665:LYS:HB3	1:N:368:ASP:OD2	55.58	0.40
1:O:568:THR:HG23	1:O:569:ASN:H	1.86	0.40
1:O:715:ASP:CG	1:O:716:THR:N	2.75	0.40
1:O:692:LYS:HD3	1:P:349:GLN:HG2	33.12	0.40
1:P:468:SER:OG	1:P:469:ASP:N	2.55	0.40
1:Q:379:THR:OG1	1:Q:380:LEU:N	2.55	0.40
1:R:385:GLN:HB3	1:R:386:ALA:H	1.63	0.40
1:R:468:SER:OG	1:R:469:ASP:N	2.55	0.40
1:R:552:VAL:HG21	1:R:556:LYS:HD2	2.03	0.40
1:T:526:HIS:CE1	1:T:527:LYS:O	2.75	0.40
1:T:552:VAL:HG21	1:T:556:LYS:HD2	2.03	0.40
1:T:568:THR:HG23	1:T:569:ASN:H	1.86	0.40
1:T:665:LYS:HB3	1:Y:368:ASP:OD2	153.32	0.40
1:U:354:LEU:O	1:U:356:SER:N	2.47	0.40
1:U:468:SER:OG	1:U:469:ASP:N	2.55	0.40
1:U:552:VAL:HG21	1:U:556:LYS:HD2	2.03	0.40
1:V:345:ASP:N	1:V:345:ASP:OD1	2.54	0.40
1:V:452:SER:CB	1:V:453:GLY:HA3	2.49	0.40
1:V:468:SER:OG	1:V:469:ASP:N	2.55	0.40
1:V:665:LYS:HB3	1:1:368:ASP:OD2	176.63	0.40
1:V:545:GLN:NE2	1:V:721:SER:HA	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:379:THR:OG1	1:W:380:LEU:N	2.54	0.40
1:X:439:ASP:OD1	1:X:439:ASP:N	2.55	0.40
1:X:568:THR:HG23	1:X:569:ASN:H	1.86	0.40
1:X:715:ASP:CG	1:X:716:THR:N	2.75	0.40
1:Y:526:HIS:CE1	1:Y:527:LYS:O	2.75	0.40
1:1:654:PRO:HB2	1:1:666:PHE:HE1	1.86	0.40
1:2:345:ASP:N	1:2:345:ASP:OD1	2.54	0.40
1:3:416:GLU:CG	1:3:417:ASP:N	2.82	0.40
1:3:654:PRO:HB2	1:3:666:PHE:HE1	1.86	0.40
1:4:260:ILE:N	1:4:274:GLY:O	2.41	0.40
1:6:439:ASP:OD1	1:6:439:ASP:N	2.55	0.40
1:6:654:PRO:HB2	1:6:666:PHE:HE1	1.86	0.40
1:7:287:PHE:HD2	1:7:613:LEU:HA	1.85	0.40
1:8:289:CYS:HB2	1:8:290:HIS:CE1	2.56	0.40
1:8:715:ASP:CG	1:8:716:THR:N	2.75	0.40
1:A:578:SER:HA	1:A:594:ASP:HA	2.04	0.40
1:A:654:PRO:HB2	1:A:666:PHE:HE1	1.86	0.40
1:B:443:TYR:OH	1:M:547:SER:OG	148.48	0.40
1:B:452:SER:CB	1:B:453:GLY:HA3	2.49	0.40
1:C:289:CYS:HB2	1:C:290:HIS:CE1	2.56	0.40
1:C:468:SER:OG	1:C:469:ASP:N	2.55	0.40
1:D:345:ASP:N	1:D:345:ASP:OD1	2.54	0.40
1:E:437:LEU:HD23	1:E:437:LEU:HA	1.92	0.40
1:E:526:HIS:CE1	1:E:527:LYS:O	2.75	0.40
1:F:314:LYS:HB3	1:F:314:LYS:HE3	1.85	0.40
1:F:345:ASP:OD1	1:F:345:ASP:N	2.54	0.40
1:F:351:PRO:O	1:F:375:TYR:OH	2.40	0.40
1:F:552:VAL:HG21	1:F:556:LYS:HD2	2.03	0.40
1:G:245:ARG:HE	1:G:363:PRO:HG2	1.85	0.40
1:G:458:SER:OG	1:I:492:SER:OG	2.31	0.40
1:G:654:PRO:HB2	1:G:666:PHE:HE1	1.86	0.40
1:I:245:ARG:HE	1:I:363:PRO:HG2	1.85	0.40
1:I:354:LEU:O	1:I:356:SER:N	2.47	0.40
1:I:648:ILE:HD12	1:I:648:ILE:HG23	1.88	0.40
1:I:715:ASP:CG	1:I:716:THR:N	2.75	0.40
1:J:345:ASP:N	1:J:345:ASP:OD1	2.54	0.40
1:A:665:LYS:HB3	1:J:368:ASP:OD2	80.37	0.40
1:J:447:ARG:NH1	1:J:450:THR:HG22	2.36	0.40
1:K:452:SER:CB	1:K:453:GLY:HA3	2.49	0.40
1:L:289:CYS:HB2	1:L:290:HIS:CE1	2.56	0.40
1:L:300:ILE:HD13	1:L:300:ILE:HG21	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:345:ASP:OD1	1:L:345:ASP:N	2.54	0.40
1:L:654:PRO:HB2	1:L:666:PHE:HE1	1.86	0.40
1:M:365:PHE:HA	1:M:366:PRO:HD3	1.91	0.40
1:M:468:SER:OG	1:M:469:ASP:N	2.55	0.40
1:M:545:GLN:HE21	1:M:721:SER:HA	1.86	0.40
1:M:568:THR:HG23	1:M:569:ASN:H	1.87	0.40
1:N:715:ASP:CG	1:N:716:THR:N	2.75	0.40
1:P:439:ASP:OD1	1:P:439:ASP:N	2.55	0.40
1:D:498:SER:C	1:P:449:ASN:HB2	2.41	0.40
1:P:447:ARG:NH1	1:P:450:THR:HG22	2.36	0.40
1:Q:351:PRO:O	1:Q:375:TYR:OH	2.40	0.40
1:R:555:GLU:OE1	1:R:555:GLU:N	2.46	0.40
1:T:260:ILE:N	1:T:274:GLY:O	2.41	0.40
1:U:452:SER:CB	1:U:453:GLY:HA3	2.49	0.40
1:V:437:LEU:HD23	1:V:437:LEU:HA	1.92	0.40
1:V:522:ALA:HA	1:V:609:ARG:NH2	2.36	0.40
1:V:665:LYS:HB3	1:W:368:ASP:OD2	2.22	0.40
1:Y:468:SER:OG	1:Y:469:ASP:N	2.55	0.40
1:Z:468:SER:OG	1:Z:469:ASP:N	2.55	0.40
1:A:368:ASP:OD2	1:Z:665:LYS:HB3	129.14	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	1	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	2	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	3	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	4	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	5	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	6	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	7	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	8	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	A	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	B	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	C	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	D	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	E	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	F	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	G	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	H	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	I	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	J	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	K	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	L	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	M	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	N	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	O	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	P	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	Q	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	R	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	S	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	T	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	U	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	V	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	W	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	X	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	Y	498/735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	Z	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	a	498/735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	b	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	c	498 / 735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	d	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	e	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	f	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	g	498 / 735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	h	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	i	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	j	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	k	498 / 735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	l	498 / 735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	m	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	n	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	o	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	p	498 / 735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	q	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	r	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	s	498 / 735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	t	498 / 735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
1	u	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	v	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	w	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	x	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	y	498 / 735 (68%)	378 (76%)	107 (22%)	13 (3%)	7	48
1	z	498 / 735 (68%)	377 (76%)	108 (22%)	13 (3%)	7	48
All	All	29880 / 44100 (68%)	22656 (76%)	6444 (22%)	780 (3%)	11	48

All (780) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	680	VAL
1	B	680	VAL
1	C	680	VAL

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Mol	Chain	Res	Type
1	D	680	VAL
1	E	680	VAL
1	F	680	VAL
1	G	680	VAL
1	H	680	VAL
1	I	680	VAL
1	J	680	VAL
1	K	680	VAL
1	L	680	VAL
1	M	680	VAL
1	N	680	VAL
1	O	680	VAL
1	P	680	VAL
1	Q	680	VAL
1	R	680	VAL
1	S	680	VAL
1	T	680	VAL
1	U	680	VAL
1	V	680	VAL
1	W	680	VAL
1	X	680	VAL
1	Y	680	VAL
1	Z	680	VAL
1	a	680	VAL
1	b	680	VAL
1	c	680	VAL
1	d	680	VAL
1	e	680	VAL
1	f	680	VAL
1	g	680	VAL
1	h	680	VAL
1	i	680	VAL
1	j	680	VAL
1	k	680	VAL
1	l	680	VAL
1	m	680	VAL
1	n	680	VAL
1	o	680	VAL
1	p	680	VAL
1	q	680	VAL
1	r	680	VAL
1	s	680	VAL

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Mol	Chain	Res	Type
1	t	680	VAL
1	u	680	VAL
1	v	680	VAL
1	w	680	VAL
1	x	680	VAL
1	y	680	VAL
1	z	680	VAL
1	1	680	VAL
1	2	680	VAL
1	3	680	VAL
1	4	680	VAL
1	5	680	VAL
1	6	680	VAL
1	7	680	VAL
1	8	680	VAL
1	A	470	ILE
1	A	471	ARG
1	A	525	SER
1	A	571	VAL
1	B	470	ILE
1	B	471	ARG
1	B	525	SER
1	B	571	VAL
1	C	470	ILE
1	C	471	ARG
1	C	525	SER
1	C	571	VAL
1	D	470	ILE
1	D	471	ARG
1	D	525	SER
1	D	571	VAL
1	E	470	ILE
1	E	471	ARG
1	E	525	SER
1	E	571	VAL
1	F	470	ILE
1	F	471	ARG
1	F	525	SER
1	F	571	VAL
1	G	470	ILE
1	G	471	ARG
1	G	525	SER

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Mol	Chain	Res	Type
1	G	571	VAL
1	H	470	ILE
1	H	471	ARG
1	H	525	SER
1	H	571	VAL
1	I	470	ILE
1	I	471	ARG
1	I	525	SER
1	I	571	VAL
1	J	470	ILE
1	J	471	ARG
1	J	525	SER
1	J	571	VAL
1	K	470	ILE
1	K	471	ARG
1	K	525	SER
1	K	571	VAL
1	L	470	ILE
1	L	471	ARG
1	L	525	SER
1	L	571	VAL
1	M	470	ILE
1	M	471	ARG
1	M	525	SER
1	M	571	VAL
1	N	470	ILE
1	N	471	ARG
1	N	525	SER
1	N	571	VAL
1	O	470	ILE
1	O	471	ARG
1	O	525	SER
1	O	571	VAL
1	P	470	ILE
1	P	471	ARG
1	P	525	SER
1	P	571	VAL
1	Q	470	ILE
1	Q	471	ARG
1	Q	525	SER
1	Q	571	VAL
1	R	470	ILE

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Mol	Chain	Res	Type
1	R	471	ARG
1	R	525	SER
1	R	571	VAL
1	S	470	ILE
1	S	471	ARG
1	S	525	SER
1	S	571	VAL
1	T	470	ILE
1	T	471	ARG
1	T	525	SER
1	T	571	VAL
1	U	470	ILE
1	U	471	ARG
1	U	525	SER
1	U	571	VAL
1	V	470	ILE
1	V	471	ARG
1	V	525	SER
1	V	571	VAL
1	W	470	ILE
1	W	471	ARG
1	W	525	SER
1	W	571	VAL
1	X	470	ILE
1	X	471	ARG
1	X	525	SER
1	X	571	VAL
1	Y	470	ILE
1	Y	471	ARG
1	Y	525	SER
1	Y	571	VAL
1	Z	470	ILE
1	Z	471	ARG
1	Z	525	SER
1	Z	571	VAL
1	a	470	ILE
1	a	471	ARG
1	a	525	SER
1	a	571	VAL
1	b	470	ILE
1	b	471	ARG
1	b	525	SER

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Mol	Chain	Res	Type
1	b	571	VAL
1	c	470	ILE
1	c	471	ARG
1	c	525	SER
1	c	571	VAL
1	d	470	ILE
1	d	471	ARG
1	d	525	SER
1	d	571	VAL
1	e	470	ILE
1	e	471	ARG
1	e	525	SER
1	e	571	VAL
1	f	470	ILE
1	f	471	ARG
1	f	525	SER
1	f	571	VAL
1	g	470	ILE
1	g	471	ARG
1	g	525	SER
1	g	571	VAL
1	h	470	ILE
1	h	471	ARG
1	h	525	SER
1	h	571	VAL
1	i	470	ILE
1	i	471	ARG
1	i	525	SER
1	i	571	VAL
1	j	470	ILE
1	j	471	ARG
1	j	525	SER
1	j	571	VAL
1	k	470	ILE
1	k	471	ARG
1	k	525	SER
1	k	571	VAL
1	l	470	ILE
1	l	471	ARG
1	l	525	SER
1	l	571	VAL
1	m	470	ILE

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Mol	Chain	Res	Type
1	m	471	ARG
1	m	525	SER
1	m	571	VAL
1	n	470	ILE
1	n	471	ARG
1	n	525	SER
1	n	571	VAL
1	o	470	ILE
1	o	471	ARG
1	o	525	SER
1	o	571	VAL
1	p	470	ILE
1	p	471	ARG
1	p	525	SER
1	p	571	VAL
1	q	470	ILE
1	q	471	ARG
1	q	525	SER
1	q	571	VAL
1	r	470	ILE
1	r	471	ARG
1	r	525	SER
1	r	571	VAL
1	s	470	ILE
1	s	471	ARG
1	s	525	SER
1	s	571	VAL
1	t	470	ILE
1	t	471	ARG
1	t	525	SER
1	t	571	VAL
1	u	470	ILE
1	u	471	ARG
1	u	525	SER
1	u	571	VAL
1	v	470	ILE
1	v	471	ARG
1	v	525	SER
1	v	571	VAL
1	w	470	ILE
1	w	471	ARG
1	w	525	SER

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Mol	Chain	Res	Type
1	w	571	VAL
1	x	470	ILE
1	x	471	ARG
1	x	525	SER
1	x	571	VAL
1	y	470	ILE
1	y	471	ARG
1	y	525	SER
1	y	571	VAL
1	z	470	ILE
1	z	471	ARG
1	z	525	SER
1	z	571	VAL
1	1	470	ILE
1	1	471	ARG
1	1	525	SER
1	1	571	VAL
1	2	470	ILE
1	2	471	ARG
1	2	525	SER
1	2	571	VAL
1	3	470	ILE
1	3	471	ARG
1	3	525	SER
1	3	571	VAL
1	4	470	ILE
1	4	471	ARG
1	4	525	SER
1	4	571	VAL
1	5	470	ILE
1	5	471	ARG
1	5	525	SER
1	5	571	VAL
1	6	470	ILE
1	6	471	ARG
1	6	525	SER
1	6	571	VAL
1	7	470	ILE
1	7	471	ARG
1	7	525	SER
1	7	571	VAL
1	8	470	ILE

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Mol	Chain	Res	Type
1	8	471	ARG
1	8	525	SER
1	8	571	VAL
1	A	539	VAL
1	B	539	VAL
1	C	539	VAL
1	D	539	VAL
1	E	539	VAL
1	F	539	VAL
1	G	539	VAL
1	H	539	VAL
1	I	539	VAL
1	J	539	VAL
1	K	539	VAL
1	L	539	VAL
1	M	539	VAL
1	N	539	VAL
1	O	539	VAL
1	P	539	VAL
1	Q	539	VAL
1	R	539	VAL
1	S	539	VAL
1	T	539	VAL
1	U	539	VAL
1	V	539	VAL
1	W	539	VAL
1	X	539	VAL
1	Y	539	VAL
1	Z	539	VAL
1	a	539	VAL
1	b	539	VAL
1	c	539	VAL
1	d	539	VAL
1	e	539	VAL
1	f	539	VAL
1	g	539	VAL
1	h	539	VAL
1	i	539	VAL
1	j	539	VAL
1	k	539	VAL
1	l	539	VAL
1	m	539	VAL

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Mol	Chain	Res	Type
1	n	539	VAL
1	o	539	VAL
1	p	539	VAL
1	q	539	VAL
1	r	539	VAL
1	s	539	VAL
1	t	539	VAL
1	u	539	VAL
1	v	539	VAL
1	w	539	VAL
1	x	539	VAL
1	y	539	VAL
1	z	539	VAL
1	1	539	VAL
1	2	539	VAL
1	3	539	VAL
1	4	539	VAL
1	5	539	VAL
1	6	539	VAL
1	7	539	VAL
1	8	539	VAL
1	A	628	PHE
1	A	681	GLU
1	B	628	PHE
1	B	681	GLU
1	C	628	PHE
1	C	681	GLU
1	D	628	PHE
1	D	681	GLU
1	E	628	PHE
1	E	681	GLU
1	F	628	PHE
1	F	681	GLU
1	G	628	PHE
1	G	681	GLU
1	H	628	PHE
1	H	681	GLU
1	I	628	PHE
1	I	681	GLU
1	J	628	PHE
1	J	681	GLU
1	K	628	PHE

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Mol	Chain	Res	Type
1	K	681	GLU
1	L	628	PHE
1	L	681	GLU
1	M	628	PHE
1	M	681	GLU
1	N	628	PHE
1	N	681	GLU
1	O	628	PHE
1	O	681	GLU
1	P	628	PHE
1	P	681	GLU
1	Q	628	PHE
1	Q	681	GLU
1	R	628	PHE
1	R	681	GLU
1	S	628	PHE
1	S	681	GLU
1	T	628	PHE
1	T	681	GLU
1	U	628	PHE
1	U	681	GLU
1	V	628	PHE
1	V	681	GLU
1	W	628	PHE
1	W	681	GLU
1	X	628	PHE
1	X	681	GLU
1	Y	628	PHE
1	Y	681	GLU
1	Z	628	PHE
1	Z	681	GLU
1	a	628	PHE
1	a	681	GLU
1	b	628	PHE
1	b	681	GLU
1	c	628	PHE
1	c	681	GLU
1	d	628	PHE
1	d	681	GLU
1	e	628	PHE
1	e	681	GLU
1	f	628	PHE

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Mol	Chain	Res	Type
1	f	681	GLU
1	g	628	PHE
1	g	681	GLU
1	h	628	PHE
1	h	681	GLU
1	i	628	PHE
1	i	681	GLU
1	j	628	PHE
1	j	681	GLU
1	k	628	PHE
1	k	681	GLU
1	l	628	PHE
1	l	681	GLU
1	m	628	PHE
1	m	681	GLU
1	n	628	PHE
1	n	681	GLU
1	o	628	PHE
1	o	681	GLU
1	p	628	PHE
1	p	681	GLU
1	q	628	PHE
1	q	681	GLU
1	r	628	PHE
1	r	681	GLU
1	s	628	PHE
1	s	681	GLU
1	t	628	PHE
1	t	681	GLU
1	u	628	PHE
1	u	681	GLU
1	v	628	PHE
1	v	681	GLU
1	w	628	PHE
1	w	681	GLU
1	x	628	PHE
1	x	681	GLU
1	y	628	PHE
1	y	681	GLU
1	z	628	PHE
1	z	681	GLU
1	1	628	PHE

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Mol	Chain	Res	Type
1	1	681	GLU
1	2	628	PHE
1	2	681	GLU
1	3	628	PHE
1	3	681	GLU
1	4	628	PHE
1	4	681	GLU
1	5	628	PHE
1	5	681	GLU
1	6	628	PHE
1	6	681	GLU
1	7	628	PHE
1	7	681	GLU
1	8	628	PHE
1	8	681	GLU
1	A	361	CYS
1	A	559	ILE
1	A	695	ASN
1	B	361	CYS
1	B	559	ILE
1	B	695	ASN
1	C	361	CYS
1	C	559	ILE
1	C	695	ASN
1	D	361	CYS
1	D	559	ILE
1	D	695	ASN
1	E	361	CYS
1	E	559	ILE
1	E	695	ASN
1	F	361	CYS
1	F	559	ILE
1	F	695	ASN
1	G	361	CYS
1	G	559	ILE
1	G	695	ASN
1	H	361	CYS
1	H	559	ILE
1	H	695	ASN
1	I	361	CYS
1	I	559	ILE
1	I	695	ASN

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Mol	Chain	Res	Type
1	J	361	CYS
1	J	559	ILE
1	J	695	ASN
1	K	361	CYS
1	K	559	ILE
1	K	695	ASN
1	L	361	CYS
1	L	559	ILE
1	L	695	ASN
1	M	361	CYS
1	M	559	ILE
1	M	695	ASN
1	N	361	CYS
1	N	559	ILE
1	N	695	ASN
1	O	361	CYS
1	O	559	ILE
1	O	695	ASN
1	P	361	CYS
1	P	559	ILE
1	P	695	ASN
1	Q	361	CYS
1	Q	559	ILE
1	Q	695	ASN
1	R	361	CYS
1	R	559	ILE
1	R	695	ASN
1	S	361	CYS
1	S	559	ILE
1	S	695	ASN
1	T	361	CYS
1	T	559	ILE
1	T	695	ASN
1	U	361	CYS
1	U	559	ILE
1	U	695	ASN
1	V	361	CYS
1	V	559	ILE
1	V	695	ASN
1	W	361	CYS
1	W	559	ILE
1	W	695	ASN

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Mol	Chain	Res	Type
1	X	361	CYS
1	X	559	ILE
1	X	695	ASN
1	Y	361	CYS
1	Y	559	ILE
1	Y	695	ASN
1	Z	361	CYS
1	Z	559	ILE
1	Z	695	ASN
1	a	361	CYS
1	a	559	ILE
1	a	695	ASN
1	b	361	CYS
1	b	559	ILE
1	b	695	ASN
1	c	361	CYS
1	c	559	ILE
1	c	695	ASN
1	d	361	CYS
1	d	559	ILE
1	d	695	ASN
1	e	361	CYS
1	e	559	ILE
1	e	695	ASN
1	f	361	CYS
1	f	559	ILE
1	f	695	ASN
1	g	361	CYS
1	g	559	ILE
1	g	695	ASN
1	h	361	CYS
1	h	559	ILE
1	h	695	ASN
1	i	361	CYS
1	i	559	ILE
1	i	695	ASN
1	j	361	CYS
1	j	559	ILE
1	j	695	ASN
1	k	361	CYS
1	k	559	ILE
1	k	695	ASN

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Mol	Chain	Res	Type
1	l	361	CYS
1	l	559	ILE
1	l	695	ASN
1	m	361	CYS
1	m	559	ILE
1	m	695	ASN
1	n	361	CYS
1	n	559	ILE
1	n	695	ASN
1	o	361	CYS
1	o	559	ILE
1	o	695	ASN
1	p	361	CYS
1	p	559	ILE
1	p	695	ASN
1	q	361	CYS
1	q	559	ILE
1	q	695	ASN
1	r	361	CYS
1	r	559	ILE
1	r	695	ASN
1	s	361	CYS
1	s	559	ILE
1	s	695	ASN
1	t	361	CYS
1	t	559	ILE
1	t	695	ASN
1	u	361	CYS
1	u	559	ILE
1	u	695	ASN
1	v	361	CYS
1	v	559	ILE
1	v	695	ASN
1	w	361	CYS
1	w	559	ILE
1	w	695	ASN
1	x	361	CYS
1	x	559	ILE
1	x	695	ASN
1	y	361	CYS
1	y	559	ILE
1	y	695	ASN

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Mol	Chain	Res	Type
1	z	361	CYS
1	z	559	ILE
1	z	695	ASN
1	1	361	CYS
1	1	559	ILE
1	1	695	ASN
1	2	361	CYS
1	2	559	ILE
1	2	695	ASN
1	3	361	CYS
1	3	559	ILE
1	3	695	ASN
1	4	361	CYS
1	4	559	ILE
1	4	695	ASN
1	5	361	CYS
1	5	559	ILE
1	5	695	ASN
1	6	361	CYS
1	6	559	ILE
1	6	695	ASN
1	7	361	CYS
1	7	559	ILE
1	7	695	ASN
1	8	361	CYS
1	8	559	ILE
1	8	695	ASN
1	A	710	VAL
1	B	710	VAL
1	C	710	VAL
1	D	710	VAL
1	E	710	VAL
1	F	710	VAL
1	G	710	VAL
1	H	710	VAL
1	I	710	VAL
1	J	710	VAL
1	K	710	VAL
1	L	710	VAL
1	M	710	VAL
1	N	710	VAL
1	O	710	VAL

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Mol	Chain	Res	Type
1	P	710	VAL
1	Q	710	VAL
1	R	710	VAL
1	S	710	VAL
1	T	710	VAL
1	U	710	VAL
1	V	710	VAL
1	W	710	VAL
1	X	710	VAL
1	Y	710	VAL
1	Z	710	VAL
1	a	710	VAL
1	b	710	VAL
1	c	710	VAL
1	d	710	VAL
1	e	710	VAL
1	f	710	VAL
1	g	710	VAL
1	h	710	VAL
1	i	710	VAL
1	j	710	VAL
1	k	710	VAL
1	l	710	VAL
1	m	710	VAL
1	n	710	VAL
1	o	710	VAL
1	p	710	VAL
1	q	710	VAL
1	r	710	VAL
1	s	710	VAL
1	t	710	VAL
1	u	710	VAL
1	v	710	VAL
1	w	710	VAL
1	x	710	VAL
1	y	710	VAL
1	z	710	VAL
1	1	710	VAL
1	2	710	VAL
1	3	710	VAL
1	4	710	VAL
1	5	710	VAL

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Mol	Chain	Res	Type
1	6	710	VAL
1	7	710	VAL
1	8	710	VAL
1	A	646	ILE
1	B	646	ILE
1	C	646	ILE
1	D	646	ILE
1	E	646	ILE
1	F	646	ILE
1	G	646	ILE
1	H	646	ILE
1	I	646	ILE
1	J	646	ILE
1	K	646	ILE
1	L	646	ILE
1	M	646	ILE
1	N	646	ILE
1	O	646	ILE
1	P	646	ILE
1	Q	646	ILE
1	R	646	ILE
1	S	646	ILE
1	T	646	ILE
1	U	646	ILE
1	V	646	ILE
1	W	646	ILE
1	X	646	ILE
1	Y	646	ILE
1	Z	646	ILE
1	a	646	ILE
1	b	646	ILE
1	c	646	ILE
1	d	646	ILE
1	e	646	ILE
1	f	646	ILE
1	g	646	ILE
1	h	646	ILE
1	i	646	ILE
1	j	646	ILE
1	k	646	ILE
1	l	646	ILE
1	m	646	ILE

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Mol	Chain	Res	Type
1	n	646	ILE
1	o	646	ILE
1	p	646	ILE
1	q	646	ILE
1	r	646	ILE
1	s	646	ILE
1	t	646	ILE
1	u	646	ILE
1	v	646	ILE
1	w	646	ILE
1	x	646	ILE
1	y	646	ILE
1	z	646	ILE
1	1	646	ILE
1	2	646	ILE
1	3	646	ILE
1	4	646	ILE
1	5	646	ILE
1	6	646	ILE
1	7	646	ILE
1	8	646	ILE

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	1	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	2	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	3	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	4	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	5	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	6	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	7	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	8	444/629 (71%)	442 (100%)	2 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	B	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	C	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	D	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	E	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	F	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	G	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	H	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	I	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	J	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	K	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	L	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	M	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	N	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	O	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	P	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	Q	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	R	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	S	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	T	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	U	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	V	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	W	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	X	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	Y	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	Z	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	a	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	b	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	c	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	d	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	e	444/629 (71%)	442 (100%)	2 (0%)	92	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	f	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	g	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	h	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	i	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	j	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	k	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	l	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	m	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	n	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	o	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	p	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	q	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	r	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	s	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	t	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	u	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	v	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	w	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	x	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	y	444/629 (71%)	442 (100%)	2 (0%)	92	97
1	z	444/629 (71%)	442 (100%)	2 (0%)	92	97
All	All	26640/37740 (71%)	26520 (100%)	120 (0%)	92	97

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

Mol	Chain	Res	Type
1	A	460	LEU
1	A	613	LEU
1	B	460	LEU
1	B	613	LEU
1	C	460	LEU
1	C	613	LEU
1	D	460	LEU
1	D	613	LEU
1	E	460	LEU

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Mol	Chain	Res	Type
1	E	613	LEU
1	F	460	LEU
1	F	613	LEU
1	G	460	LEU
1	G	613	LEU
1	H	460	LEU
1	H	613	LEU
1	I	460	LEU
1	I	613	LEU
1	J	460	LEU
1	J	613	LEU
1	K	460	LEU
1	K	613	LEU
1	L	460	LEU
1	L	613	LEU
1	M	460	LEU
1	M	613	LEU
1	N	460	LEU
1	N	613	LEU
1	O	460	LEU
1	O	613	LEU
1	P	460	LEU
1	P	613	LEU
1	Q	460	LEU
1	Q	613	LEU
1	R	460	LEU
1	R	613	LEU
1	S	460	LEU
1	S	613	LEU
1	T	460	LEU
1	T	613	LEU
1	U	460	LEU
1	U	613	LEU
1	V	460	LEU
1	V	613	LEU
1	W	460	LEU
1	W	613	LEU
1	X	460	LEU
1	X	613	LEU
1	Y	460	LEU
1	Y	613	LEU
1	Z	460	LEU

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Mol	Chain	Res	Type
1	Z	613	LEU
1	a	460	LEU
1	a	613	LEU
1	b	460	LEU
1	b	613	LEU
1	c	460	LEU
1	c	613	LEU
1	d	460	LEU
1	d	613	LEU
1	e	460	LEU
1	e	613	LEU
1	f	460	LEU
1	f	613	LEU
1	g	460	LEU
1	g	613	LEU
1	h	460	LEU
1	h	613	LEU
1	i	460	LEU
1	i	613	LEU
1	j	460	LEU
1	j	613	LEU
1	k	460	LEU
1	k	613	LEU
1	l	460	LEU
1	l	613	LEU
1	m	460	LEU
1	m	613	LEU
1	n	460	LEU
1	n	613	LEU
1	o	460	LEU
1	o	613	LEU
1	p	460	LEU
1	p	613	LEU
1	q	460	LEU
1	q	613	LEU
1	r	460	LEU
1	r	613	LEU
1	s	460	LEU
1	s	613	LEU
1	t	460	LEU
1	t	613	LEU
1	u	460	LEU

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Mol	Chain	Res	Type
1	u	613	LEU
1	v	460	LEU
1	v	613	LEU
1	w	460	LEU
1	w	613	LEU
1	x	460	LEU
1	x	613	LEU
1	y	460	LEU
1	y	613	LEU
1	z	460	LEU
1	z	613	LEU
1	1	460	LEU
1	1	613	LEU
1	2	460	LEU
1	2	613	LEU
1	3	460	LEU
1	3	613	LEU
1	4	460	LEU
1	4	613	LEU
1	5	460	LEU
1	5	613	LEU
1	6	460	LEU
1	6	613	LEU
1	7	460	LEU
1	7	613	LEU
1	8	460	LEU
1	8	613	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (558) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	253	ASN
1	A	382	ASN
1	A	440	GLN
1	A	461	GLN
1	A	473	GLN
1	A	589	GLN
1	A	598	GLN
1	A	607	GLN
1	A	656	ASN
1	A	690	ASN
1	B	253	ASN

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Mol	Chain	Res	Type
1	B	382	ASN
1	B	440	GLN
1	B	461	GLN
1	B	473	GLN
1	B	589	GLN
1	B	598	GLN
1	B	607	GLN
1	B	656	ASN
1	B	690	ASN
1	C	253	ASN
1	C	382	ASN
1	C	440	GLN
1	C	461	GLN
1	C	473	GLN
1	C	589	GLN
1	C	598	GLN
1	C	607	GLN
1	C	656	ASN
1	C	690	ASN
1	D	253	ASN
1	D	382	ASN
1	D	440	GLN
1	D	461	GLN
1	D	473	GLN
1	D	598	GLN
1	D	607	GLN
1	D	656	ASN
1	D	690	ASN
1	E	253	ASN
1	E	382	ASN
1	E	440	GLN
1	E	461	GLN
1	E	473	GLN
1	E	589	GLN
1	E	598	GLN
1	E	607	GLN
1	E	656	ASN
1	F	253	ASN
1	F	382	ASN
1	F	440	GLN
1	F	461	GLN
1	F	473	GLN

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Mol	Chain	Res	Type
1	F	589	GLN
1	F	598	GLN
1	F	607	GLN
1	F	656	ASN
1	G	253	ASN
1	G	382	ASN
1	G	440	GLN
1	G	461	GLN
1	G	473	GLN
1	G	589	GLN
1	G	598	GLN
1	G	607	GLN
1	G	656	ASN
1	H	253	ASN
1	H	382	ASN
1	H	440	GLN
1	H	461	GLN
1	H	473	GLN
1	H	589	GLN
1	H	598	GLN
1	H	607	GLN
1	H	656	ASN
1	I	253	ASN
1	I	382	ASN
1	I	440	GLN
1	I	461	GLN
1	I	473	GLN
1	I	589	GLN
1	I	607	GLN
1	I	656	ASN
1	J	253	ASN
1	J	382	ASN
1	J	440	GLN
1	J	461	GLN
1	J	473	GLN
1	J	589	GLN
1	J	598	GLN
1	J	607	GLN
1	J	656	ASN
1	J	690	ASN
1	K	253	ASN
1	K	382	ASN

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Mol	Chain	Res	Type
1	K	440	GLN
1	K	461	GLN
1	K	473	GLN
1	K	589	GLN
1	K	598	GLN
1	K	607	GLN
1	K	656	ASN
1	K	690	ASN
1	L	253	ASN
1	L	382	ASN
1	L	440	GLN
1	L	461	GLN
1	L	473	GLN
1	L	589	GLN
1	L	598	GLN
1	L	607	GLN
1	L	656	ASN
1	L	690	ASN
1	M	253	ASN
1	M	382	ASN
1	M	440	GLN
1	M	461	GLN
1	M	473	GLN
1	M	589	GLN
1	M	598	GLN
1	M	607	GLN
1	M	656	ASN
1	M	690	ASN
1	N	253	ASN
1	N	382	ASN
1	N	440	GLN
1	N	461	GLN
1	N	473	GLN
1	N	589	GLN
1	N	598	GLN
1	N	607	GLN
1	N	656	ASN
1	O	253	ASN
1	O	382	ASN
1	O	440	GLN
1	O	461	GLN
1	O	473	GLN

Continued on next page...

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Mol	Chain	Res	Type
1	O	589	GLN
1	O	598	GLN
1	O	607	GLN
1	O	656	ASN
1	P	253	ASN
1	P	382	ASN
1	P	440	GLN
1	P	461	GLN
1	P	473	GLN
1	P	589	GLN
1	P	598	GLN
1	P	607	GLN
1	P	656	ASN
1	Q	253	ASN
1	Q	382	ASN
1	Q	440	GLN
1	Q	461	GLN
1	Q	473	GLN
1	Q	589	GLN
1	Q	598	GLN
1	Q	607	GLN
1	Q	656	ASN
1	Q	690	ASN
1	R	253	ASN
1	R	255	HIS
1	R	382	ASN
1	R	440	GLN
1	R	461	GLN
1	R	473	GLN
1	R	589	GLN
1	R	598	GLN
1	R	607	GLN
1	R	656	ASN
1	S	253	ASN
1	S	382	ASN
1	S	440	GLN
1	S	461	GLN
1	S	473	GLN
1	S	589	GLN
1	S	598	GLN
1	S	607	GLN
1	S	656	ASN

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Mol	Chain	Res	Type
1	T	253	ASN
1	T	382	ASN
1	T	440	GLN
1	T	461	GLN
1	T	473	GLN
1	T	589	GLN
1	T	598	GLN
1	T	607	GLN
1	T	656	ASN
1	U	253	ASN
1	U	382	ASN
1	U	440	GLN
1	U	461	GLN
1	U	473	GLN
1	U	589	GLN
1	U	598	GLN
1	U	607	GLN
1	U	656	ASN
1	U	690	ASN
1	V	253	ASN
1	V	382	ASN
1	V	440	GLN
1	V	461	GLN
1	V	473	GLN
1	V	589	GLN
1	V	598	GLN
1	V	607	GLN
1	V	656	ASN
1	V	690	ASN
1	W	253	ASN
1	W	382	ASN
1	W	440	GLN
1	W	461	GLN
1	W	473	GLN
1	W	589	GLN
1	W	598	GLN
1	W	607	GLN
1	W	656	ASN
1	X	253	ASN
1	X	382	ASN
1	X	440	GLN
1	X	461	GLN

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Mol	Chain	Res	Type
1	X	473	GLN
1	X	589	GLN
1	X	607	GLN
1	X	656	ASN
1	Y	253	ASN
1	Y	382	ASN
1	Y	440	GLN
1	Y	461	GLN
1	Y	473	GLN
1	Y	589	GLN
1	Y	598	GLN
1	Y	607	GLN
1	Y	656	ASN
1	Z	253	ASN
1	Z	255	HIS
1	Z	382	ASN
1	Z	440	GLN
1	Z	461	GLN
1	Z	473	GLN
1	Z	589	GLN
1	Z	607	GLN
1	Z	656	ASN
1	a	253	ASN
1	a	259	GLN
1	a	382	ASN
1	a	440	GLN
1	a	461	GLN
1	a	473	GLN
1	a	589	GLN
1	a	598	GLN
1	a	607	GLN
1	a	656	ASN
1	b	253	ASN
1	b	382	ASN
1	b	440	GLN
1	b	461	GLN
1	b	473	GLN
1	b	589	GLN
1	b	598	GLN
1	b	607	GLN
1	b	656	ASN
1	b	690	ASN

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Mol	Chain	Res	Type
1	c	253	ASN
1	c	382	ASN
1	c	440	GLN
1	c	461	GLN
1	c	473	GLN
1	c	589	GLN
1	c	598	GLN
1	c	607	GLN
1	c	656	ASN
1	d	253	ASN
1	d	382	ASN
1	d	440	GLN
1	d	473	GLN
1	d	589	GLN
1	d	598	GLN
1	d	607	GLN
1	d	656	ASN
1	d	690	ASN
1	e	253	ASN
1	e	382	ASN
1	e	440	GLN
1	e	461	GLN
1	e	473	GLN
1	e	589	GLN
1	e	598	GLN
1	e	607	GLN
1	e	656	ASN
1	e	690	ASN
1	f	253	ASN
1	f	382	ASN
1	f	440	GLN
1	f	461	GLN
1	f	473	GLN
1	f	589	GLN
1	f	598	GLN
1	f	607	GLN
1	f	656	ASN
1	g	253	ASN
1	g	382	ASN
1	g	440	GLN
1	g	461	GLN
1	g	473	GLN

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Mol	Chain	Res	Type
1	g	589	GLN
1	g	607	GLN
1	g	656	ASN
1	g	690	ASN
1	h	253	ASN
1	h	382	ASN
1	h	440	GLN
1	h	461	GLN
1	h	473	GLN
1	h	589	GLN
1	h	598	GLN
1	h	607	GLN
1	h	656	ASN
1	h	690	ASN
1	i	253	ASN
1	i	382	ASN
1	i	440	GLN
1	i	461	GLN
1	i	473	GLN
1	i	589	GLN
1	i	607	GLN
1	i	656	ASN
1	i	690	ASN
1	j	253	ASN
1	j	382	ASN
1	j	440	GLN
1	j	461	GLN
1	j	473	GLN
1	j	589	GLN
1	j	598	GLN
1	j	607	GLN
1	j	656	ASN
1	k	253	ASN
1	k	382	ASN
1	k	440	GLN
1	k	461	GLN
1	k	473	GLN
1	k	589	GLN
1	k	598	GLN
1	k	607	GLN
1	k	656	ASN
1	k	690	ASN

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Mol	Chain	Res	Type
1	l	253	ASN
1	l	255	HIS
1	l	382	ASN
1	l	440	GLN
1	l	461	GLN
1	l	473	GLN
1	l	589	GLN
1	l	598	GLN
1	l	607	GLN
1	l	656	ASN
1	l	690	ASN
1	m	253	ASN
1	m	255	HIS
1	m	382	ASN
1	m	440	GLN
1	m	461	GLN
1	m	473	GLN
1	m	589	GLN
1	m	598	GLN
1	m	607	GLN
1	m	656	ASN
1	n	253	ASN
1	n	382	ASN
1	n	440	GLN
1	n	461	GLN
1	n	473	GLN
1	n	589	GLN
1	n	598	GLN
1	n	607	GLN
1	n	656	ASN
1	o	253	ASN
1	o	382	ASN
1	o	440	GLN
1	o	461	GLN
1	o	473	GLN
1	o	589	GLN
1	o	598	GLN
1	o	607	GLN
1	o	656	ASN
1	o	690	ASN
1	p	253	ASN
1	p	382	ASN

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Mol	Chain	Res	Type
1	p	440	GLN
1	p	461	GLN
1	p	473	GLN
1	p	589	GLN
1	p	598	GLN
1	p	607	GLN
1	p	656	ASN
1	q	253	ASN
1	q	259	GLN
1	q	440	GLN
1	q	461	GLN
1	q	473	GLN
1	q	589	GLN
1	q	598	GLN
1	q	607	GLN
1	q	656	ASN
1	r	253	ASN
1	r	382	ASN
1	r	440	GLN
1	r	461	GLN
1	r	473	GLN
1	r	589	GLN
1	r	607	GLN
1	r	656	ASN
1	s	253	ASN
1	s	382	ASN
1	s	440	GLN
1	s	473	GLN
1	s	589	GLN
1	s	598	GLN
1	s	607	GLN
1	s	656	ASN
1	t	253	ASN
1	t	255	HIS
1	t	382	ASN
1	t	440	GLN
1	t	461	GLN
1	t	473	GLN
1	t	589	GLN
1	t	598	GLN
1	t	607	GLN
1	t	656	ASN

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Mol	Chain	Res	Type
1	u	253	ASN
1	u	382	ASN
1	u	440	GLN
1	u	461	GLN
1	u	473	GLN
1	u	589	GLN
1	u	598	GLN
1	u	607	GLN
1	u	656	ASN
1	v	253	ASN
1	v	382	ASN
1	v	440	GLN
1	v	461	GLN
1	v	473	GLN
1	v	589	GLN
1	v	598	GLN
1	v	607	GLN
1	v	656	ASN
1	w	253	ASN
1	w	382	ASN
1	w	440	GLN
1	w	461	GLN
1	w	473	GLN
1	w	589	GLN
1	w	598	GLN
1	w	607	GLN
1	w	656	ASN
1	w	690	ASN
1	x	253	ASN
1	x	382	ASN
1	x	440	GLN
1	x	461	GLN
1	x	473	GLN
1	x	589	GLN
1	x	607	GLN
1	x	656	ASN
1	y	253	ASN
1	y	382	ASN
1	y	440	GLN
1	y	461	GLN
1	y	473	GLN
1	y	589	GLN

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Mol	Chain	Res	Type
1	y	598	GLN
1	y	607	GLN
1	y	656	ASN
1	z	253	ASN
1	z	382	ASN
1	z	440	GLN
1	z	461	GLN
1	z	473	GLN
1	z	589	GLN
1	z	598	GLN
1	z	607	GLN
1	z	656	ASN
1	z	690	ASN
1	1	253	ASN
1	1	382	ASN
1	1	440	GLN
1	1	461	GLN
1	1	473	GLN
1	1	589	GLN
1	1	598	GLN
1	1	607	GLN
1	1	656	ASN
1	2	253	ASN
1	2	382	ASN
1	2	440	GLN
1	2	473	GLN
1	2	589	GLN
1	2	598	GLN
1	2	607	GLN
1	2	656	ASN
1	2	690	ASN
1	3	253	ASN
1	3	382	ASN
1	3	440	GLN
1	3	461	GLN
1	3	473	GLN
1	3	589	GLN
1	3	598	GLN
1	3	607	GLN
1	3	656	ASN
1	4	253	ASN
1	4	382	ASN

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Mol	Chain	Res	Type
1	4	440	GLN
1	4	461	GLN
1	4	473	GLN
1	4	589	GLN
1	4	598	GLN
1	4	607	GLN
1	4	656	ASN
1	5	253	ASN
1	5	382	ASN
1	5	440	GLN
1	5	461	GLN
1	5	473	GLN
1	5	589	GLN
1	5	598	GLN
1	5	607	GLN
1	5	656	ASN
1	5	690	ASN
1	6	253	ASN
1	6	382	ASN
1	6	440	GLN
1	6	461	GLN
1	6	473	GLN
1	6	589	GLN
1	6	598	GLN
1	6	607	GLN
1	6	656	ASN
1	7	253	ASN
1	7	382	ASN
1	7	440	GLN
1	7	461	GLN
1	7	473	GLN
1	7	589	GLN
1	7	598	GLN
1	7	607	GLN
1	7	656	ASN
1	8	253	ASN
1	8	382	ASN
1	8	440	GLN
1	8	461	GLN
1	8	473	GLN
1	8	589	GLN
1	8	607	GLN

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Mol	Chain	Res	Type
1	8	656	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.