



Full wwPDB X-ray Structure Validation Report

Jun 16, 2014 – 08:44 PM BST

PDB ID : 4V4K
Title : Bacteriophage P22 Portal Protein bound to middle Tail Factor GP4. This file contain the second biological assembly
Authors : Olia, A.S.; Cingolani, G.
Deposited on : 2010-04-19
Resolution : 3.25 Å(reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

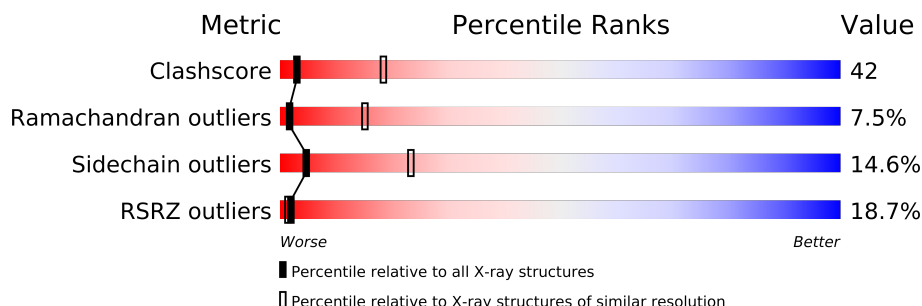
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.16 November 2013
Xtriage (Phenix) : dev-1323
EDS : stable23397
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable23397

1 Overall quality at a glance

The reported resolution of this entry is 3.25 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)	Similar resolution (#Entries, resolution range(Å))
Clashscore	79885	1374 (3.32-3.20)
Ramachandran outliers	78287	1348 (3.32-3.20)
Sidechain outliers	78261	1346 (3.32-3.20)
RSRZ outliers	66119	1086 (3.32-3.20)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	602	
1	B	602	
1	C	602	
1	D	602	
1	E	602	
1	F	602	
1	G	602	
1	H	602	
1	I	602	
1	J	602	
1	K	602	
1	L	602	
1	M	602	
1	N	602	
1	O	602	
1	P	602	

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Mol	Chain	Length	Quality of chain
1	Q	602	
1	R	602	
1	S	602	
1	T	602	
1	U	602	
1	V	602	
1	W	602	
1	X	602	
2	Y	166	
2	Z	166	
2	a	166	
2	b	166	
2	c	166	
2	d	166	
2	e	166	
2	f	166	
2	g	166	
2	h	166	
2	i	166	
2	j	166	
2	k	166	
2	l	166	
2	m	166	
2	n	166	
2	o	166	
2	p	166	
2	q	166	
2	r	166	
2	s	166	
2	t	166	
2	u	166	
2	v	166	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 135120 atoms, of which 0 are hydrogen and 0 are deuterium.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 PORTAL PROTEIN.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	M	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	N	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	O	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	P	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	Q	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	R	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	S	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	T	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	U	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	V	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	W	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	X	569	Total	C	N	O	S	Se	0	0	0
			4564	2871	786	887	4	16			
1	A	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	B	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	C	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	D	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			

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Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	E	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	F	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	G	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	H	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	I	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	J	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	K	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			
1	L	569	Total	C	N	O	S	Se	0	0	0
			4553	2865	783	885	4	16			

- Molecule 2 is a protein called PACKAGED DNA STABILIZATION PROTEIN GP4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	k	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	l	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	m	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	n	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	o	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	p	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	q	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	r	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	s	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	t	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	u	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	v	145	Total	C	N	O	S	0	0	0
			1052	654	182	211	5			
2	Y	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	Z	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	a	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	b	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	c	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	d	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	e	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	f	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	g	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	h	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	i	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			
2	j	146	Total	C	N	O	S	0	0	0
			1048	652	179	212	5			

There are 24 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
k	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
l	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
m	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
n	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
o	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
p	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
q	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
r	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
s	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
t	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
u	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
v	141	PRO	ALA	ENGINEERED MUTATION	UNP P26746
Y	150	PRO	ALA	ENGINEERED	UNP P26746

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Chain	Residue	Modelled	Actual	Comment	Reference
Z	150	PRO	ALA	ENGINEERED	UNP P26746
a	150	PRO	ALA	ENGINEERED	UNP P26746
b	150	PRO	ALA	ENGINEERED	UNP P26746
c	150	PRO	ALA	ENGINEERED	UNP P26746
d	150	PRO	ALA	ENGINEERED	UNP P26746
e	150	PRO	ALA	ENGINEERED	UNP P26746
f	150	PRO	ALA	ENGINEERED	UNP P26746
g	150	PRO	ALA	ENGINEERED	UNP P26746
h	150	PRO	ALA	ENGINEERED	UNP P26746
i	150	PRO	ALA	ENGINEERED	UNP P26746
j	150	PRO	ALA	ENGINEERED	UNP P26746

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	M	21	Total O 21 21	0	0
3	N	21	Total O 21 21	0	0
3	O	21	Total O 21 21	0	0
3	P	21	Total O 21 21	0	0
3	Q	21	Total O 21 21	0	0
3	R	21	Total O 21 21	0	0
3	S	21	Total O 21 21	0	0
3	T	21	Total O 21 21	0	0
3	U	21	Total O 21 21	0	0
3	V	21	Total O 21 21	0	0
3	W	21	Total O 21 21	0	0
3	X	21	Total O 21 21	0	0
3	A	22	Total O 22 22	0	0
3	B	22	Total O 22 22	0	0

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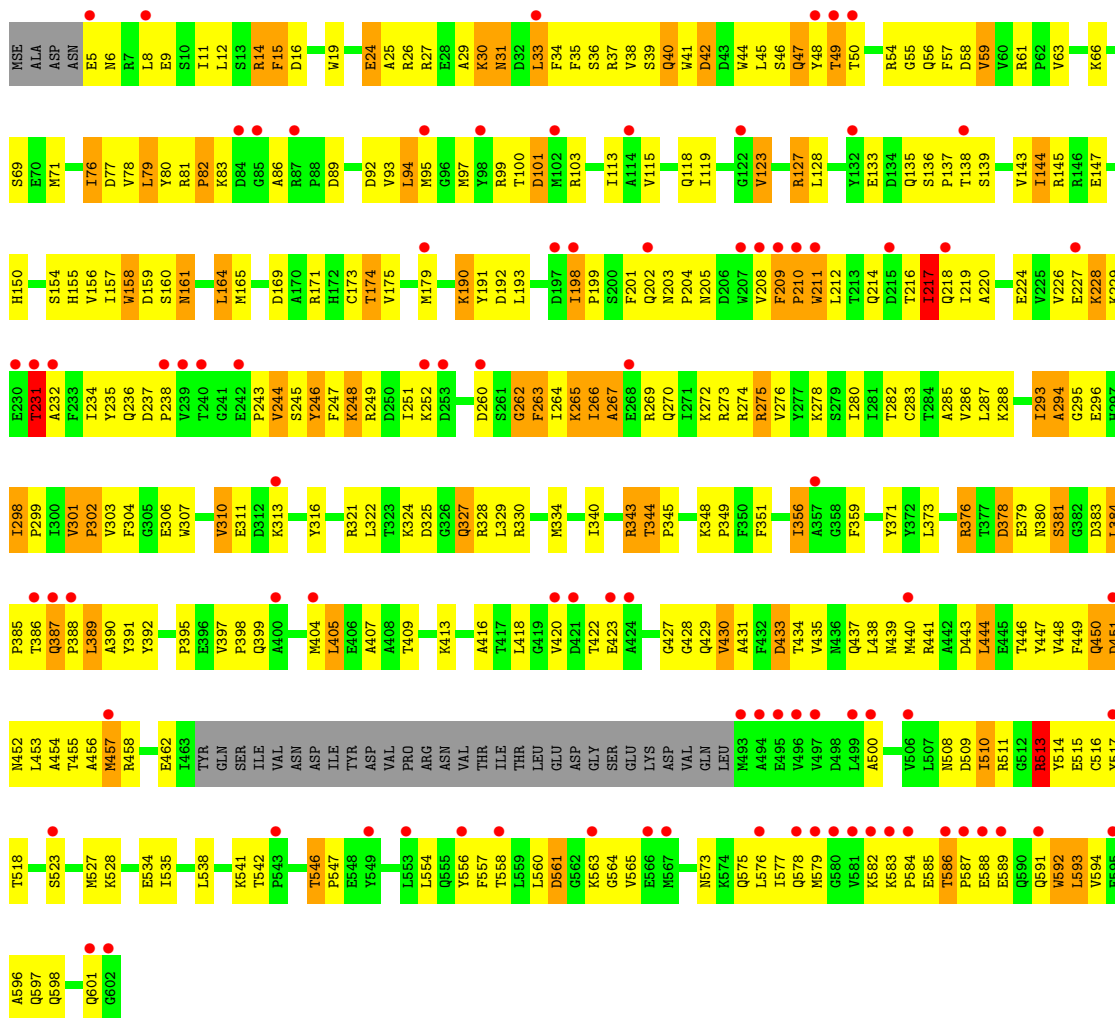
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	C	22	Total 22	O 22	0	0
3	D	22	Total 22	O 22	0	0
3	E	22	Total 22	O 22	0	0
3	F	22	Total 22	O 22	0	0
3	G	22	Total 22	O 22	0	0
3	H	22	Total 22	O 22	0	0
3	I	22	Total 22	O 22	0	0
3	J	22	Total 22	O 22	0	0
3	K	22	Total 22	O 22	0	0
3	L	22	Total 22	O 22	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

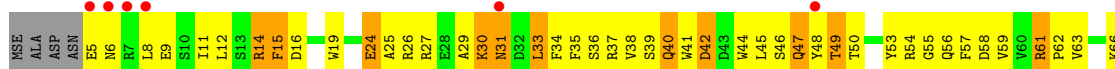
• Molecule 1: PORTAL PROTEIN

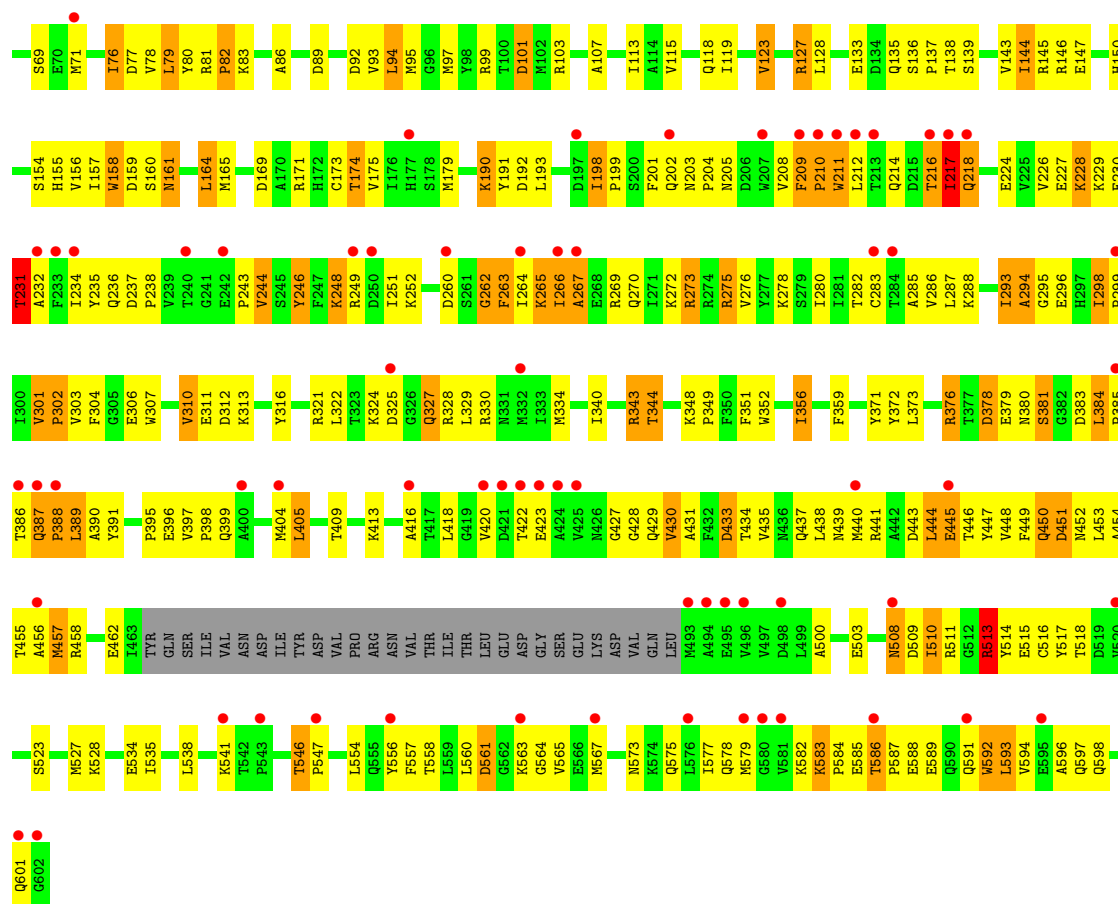
Chain M: 



• Molecule 1: PORTAL PROTEIN

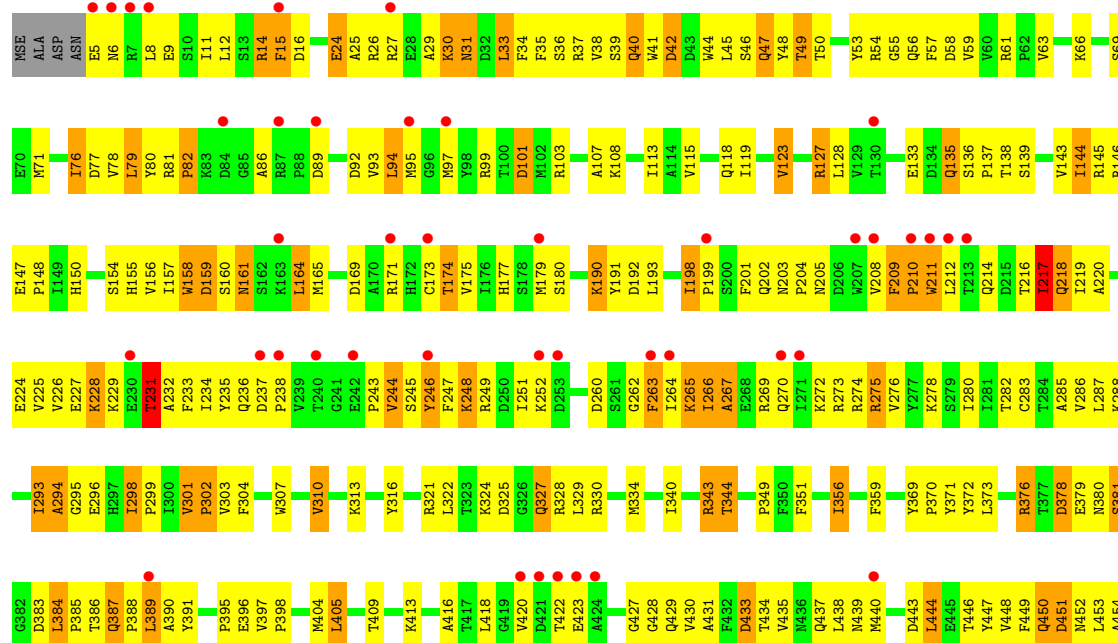
Chain N: 

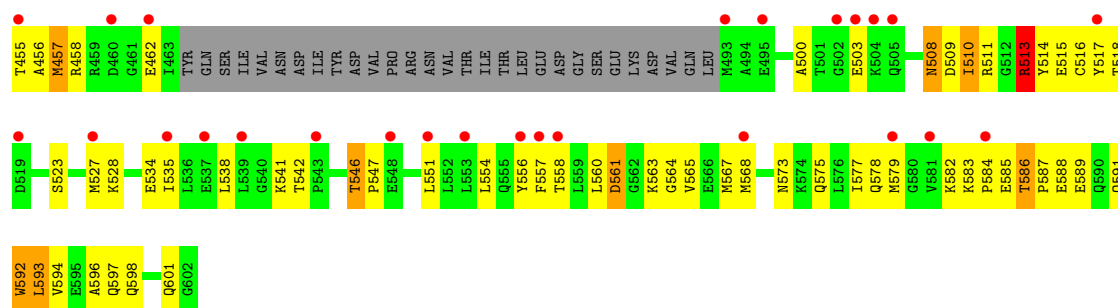




● Molecule 1: PORTAL PROTEIN

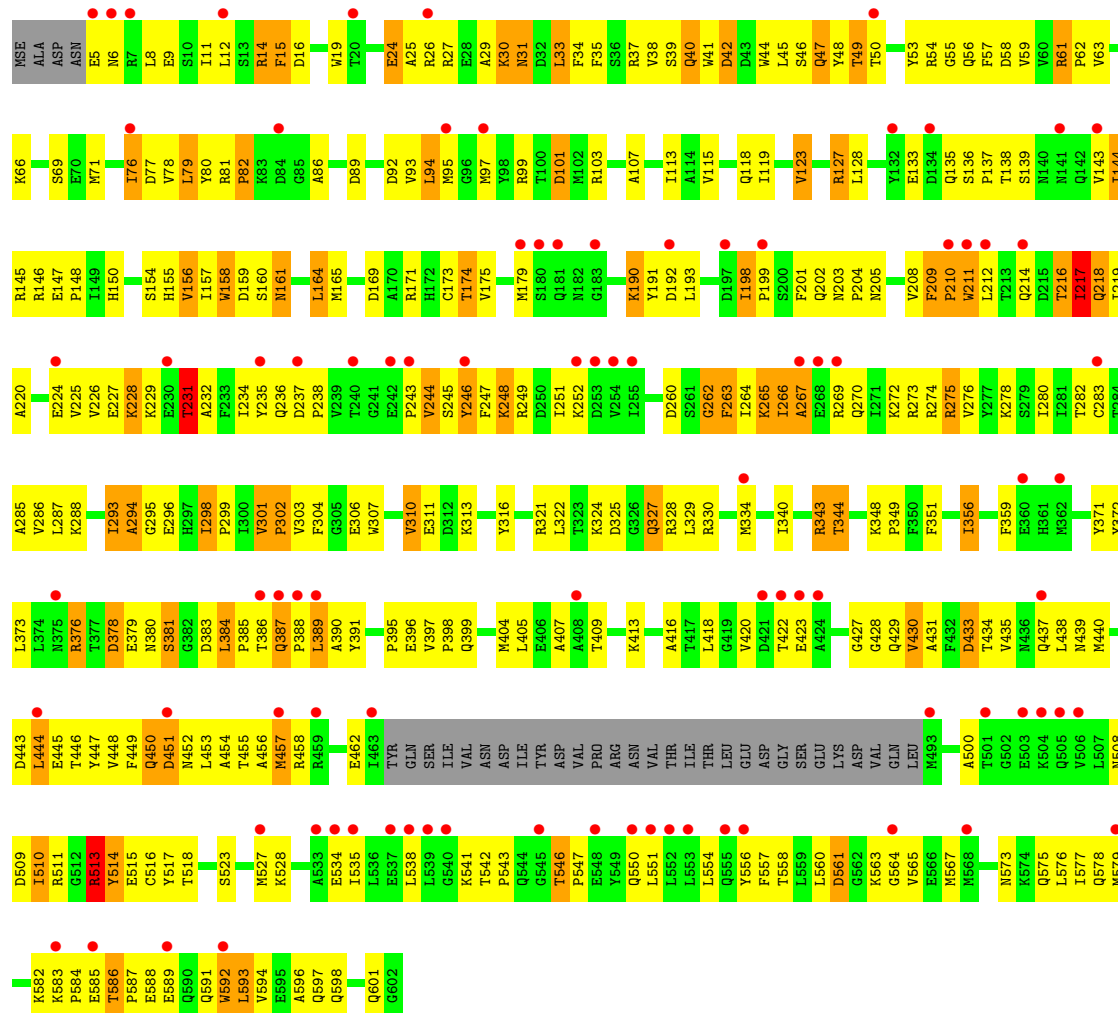
Chain O:





• Molecule 1: PORTAL PROTEIN

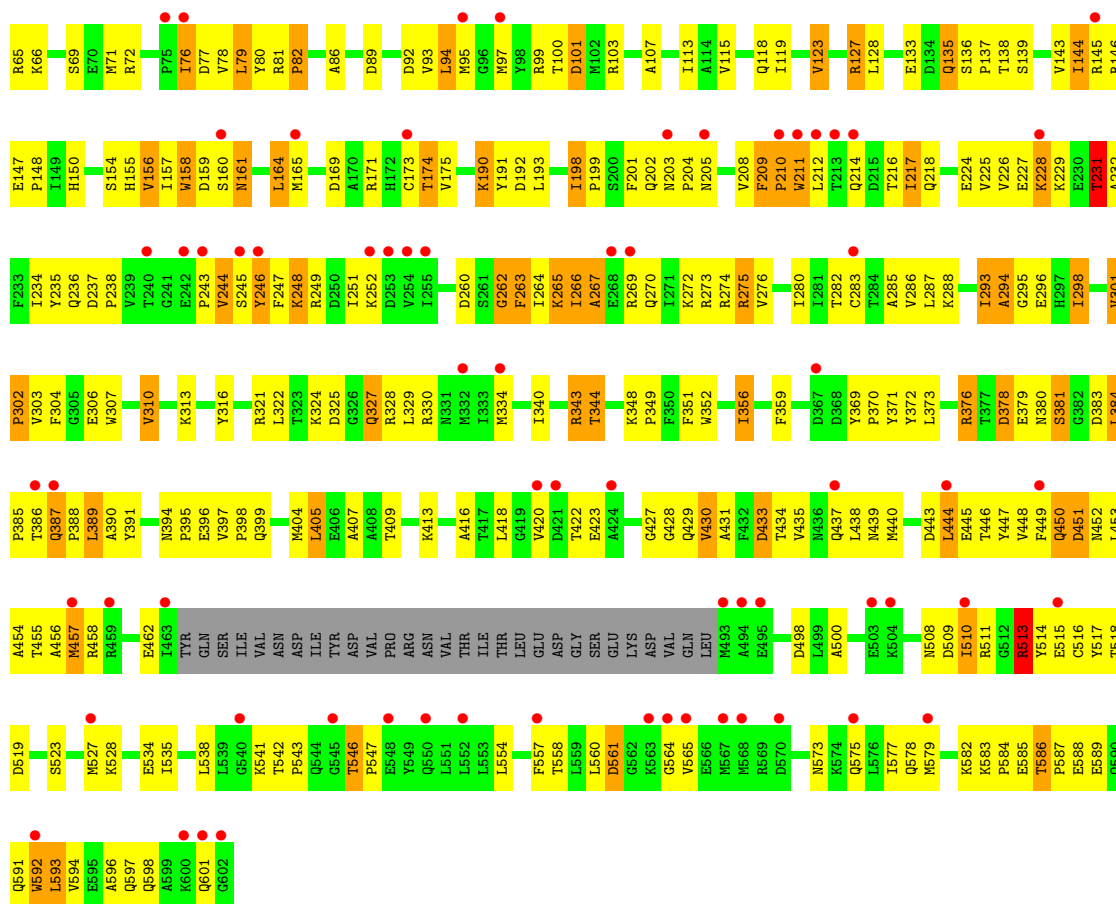
Chain P:



• Molecule 1: PORTAL PROTEIN

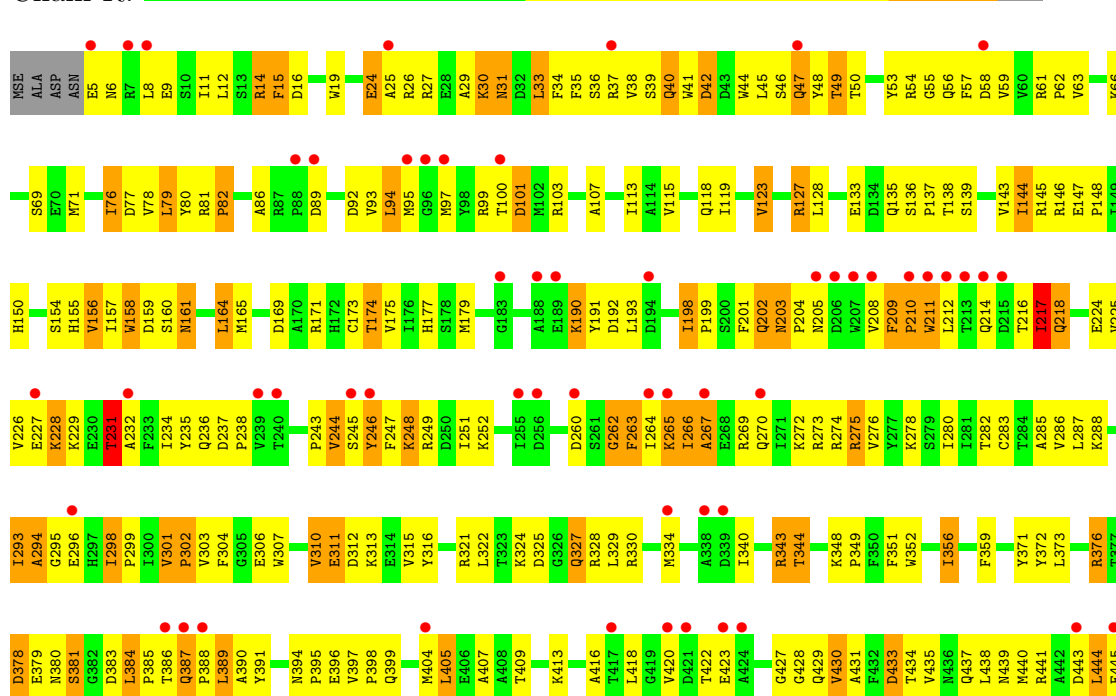
Chain Q:

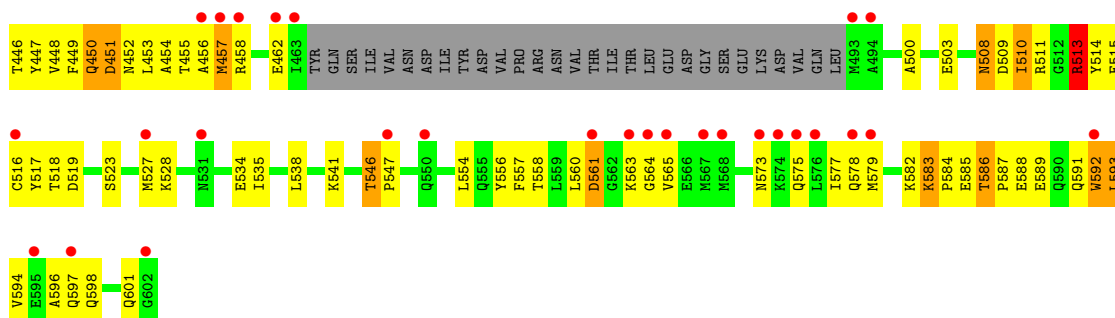




• Molecule 1: PORTAL PROTEIN

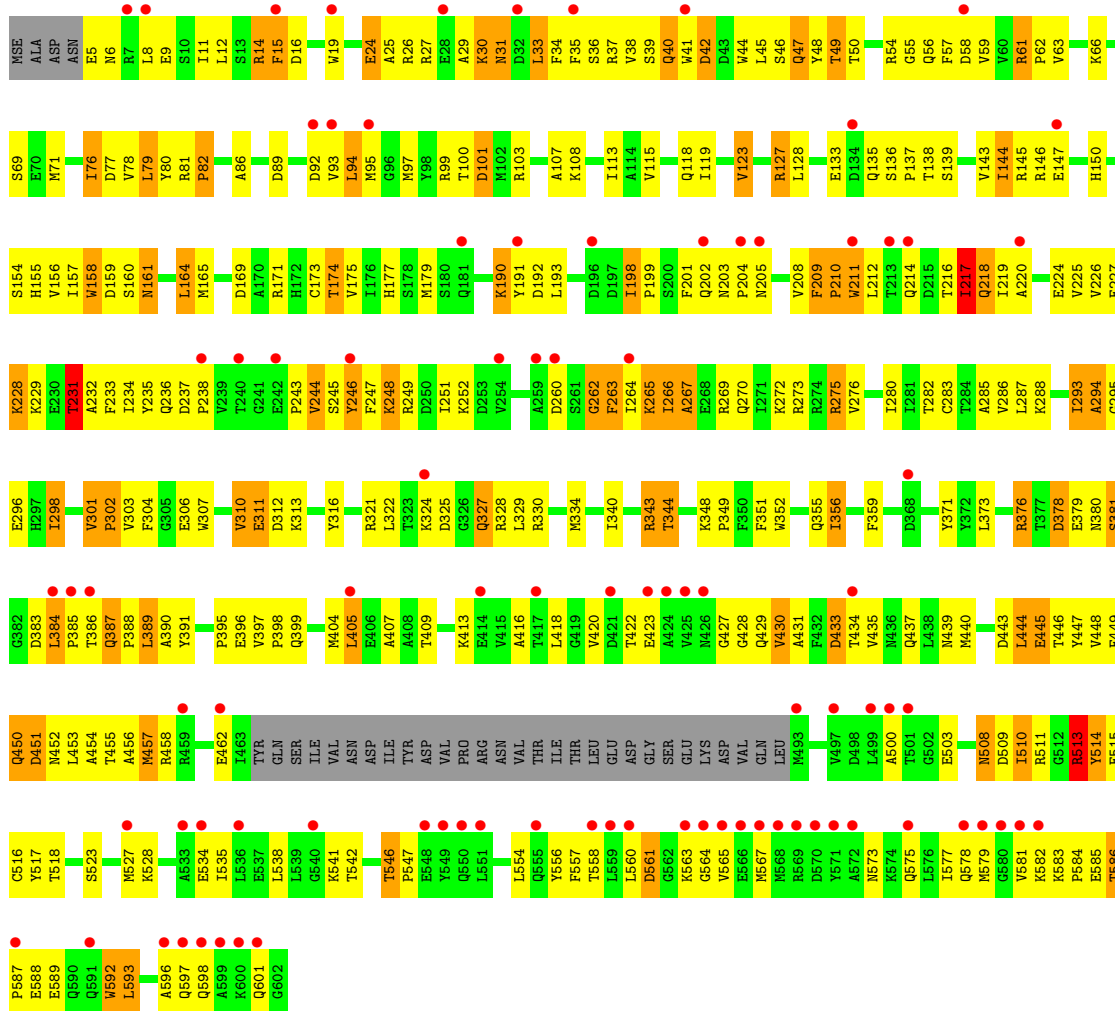
Chain R:





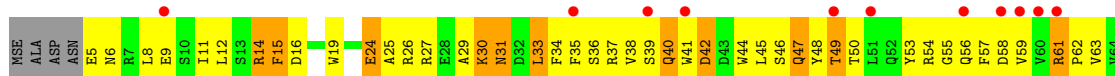
• Molecule 1: PORTAL PROTEIN

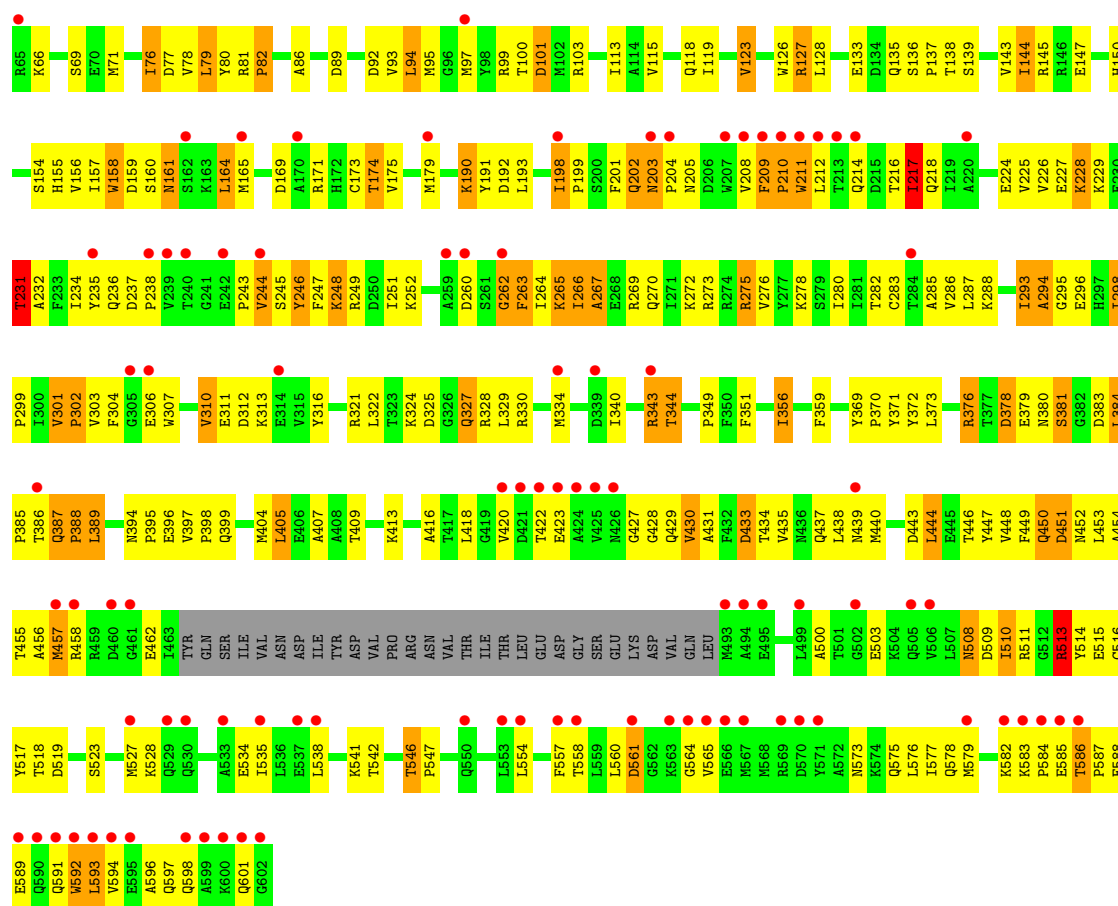
Chain S:



• Molecule 1: PORTAL PROTEIN

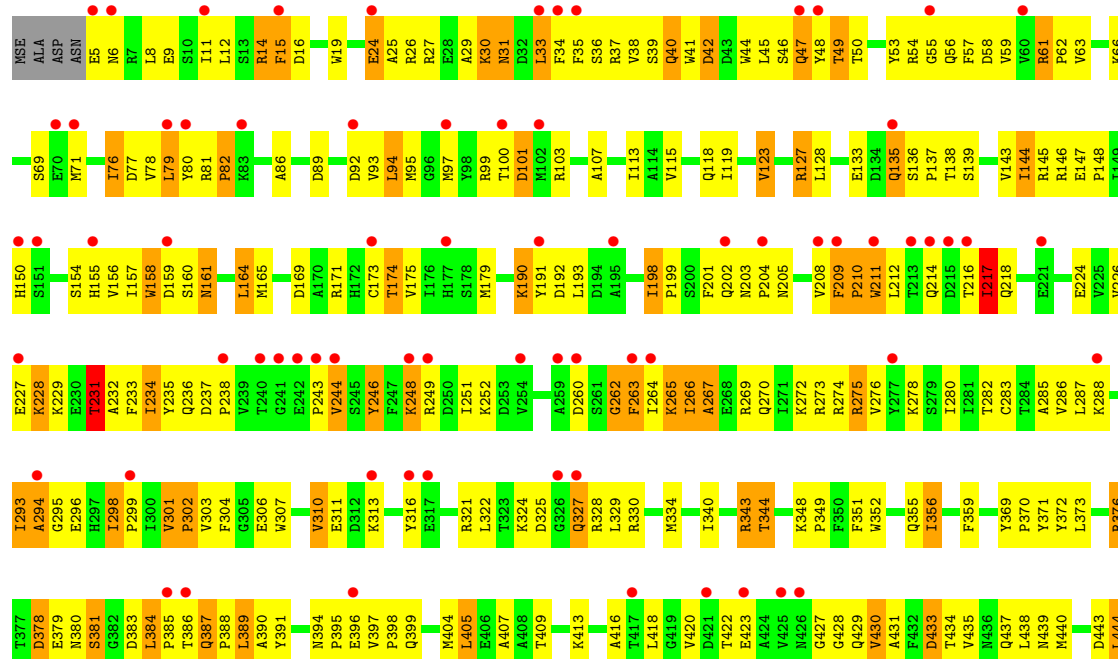
Chain T:

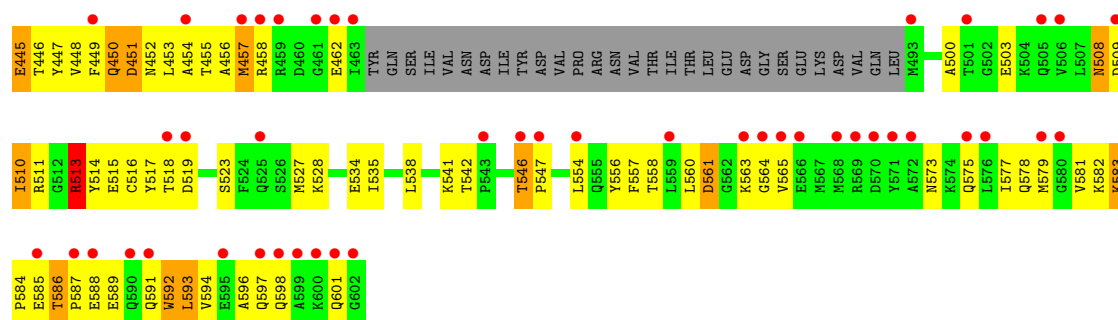




• Molecule 1: PORTAL PROTEIN

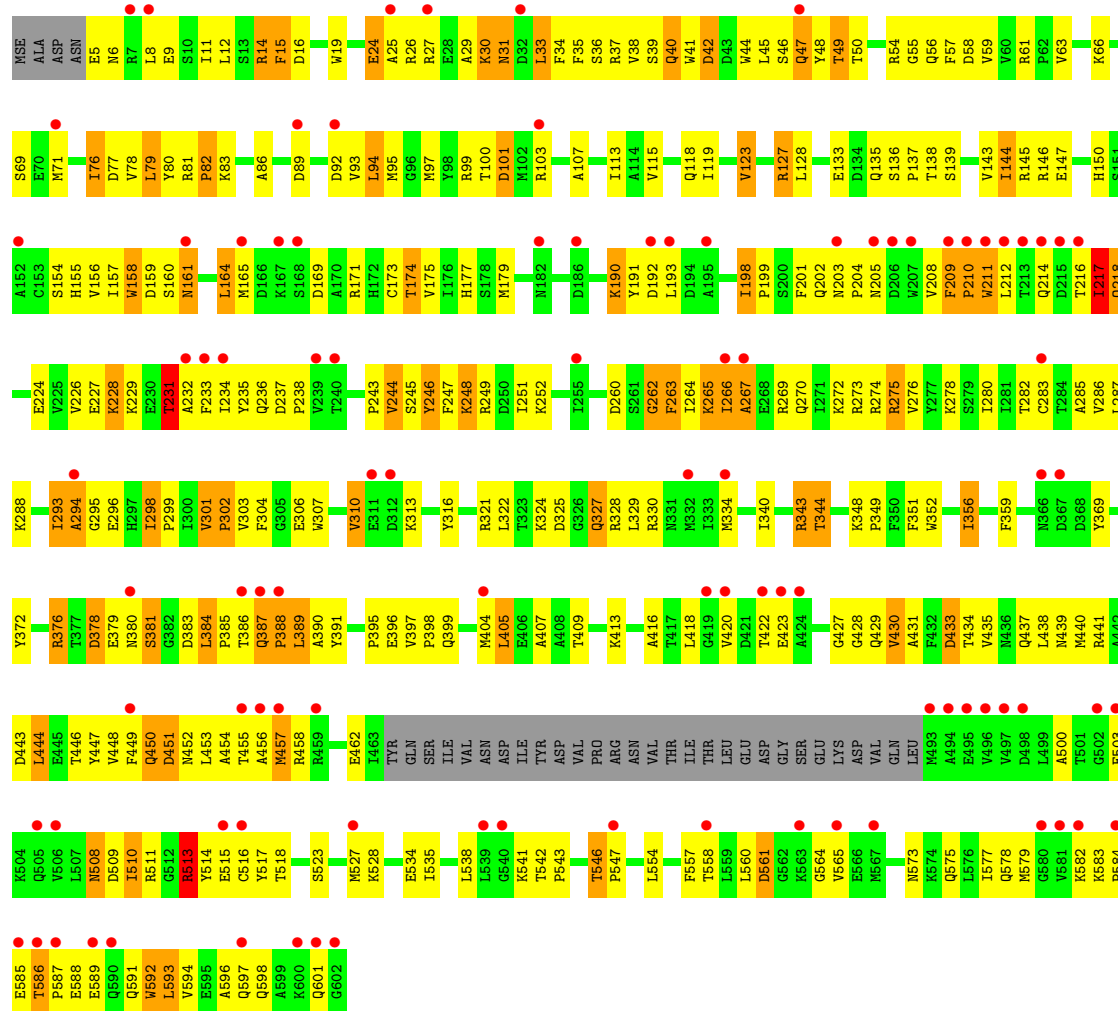
Chain U:





• Molecule 1: PORTAL PROTEIN

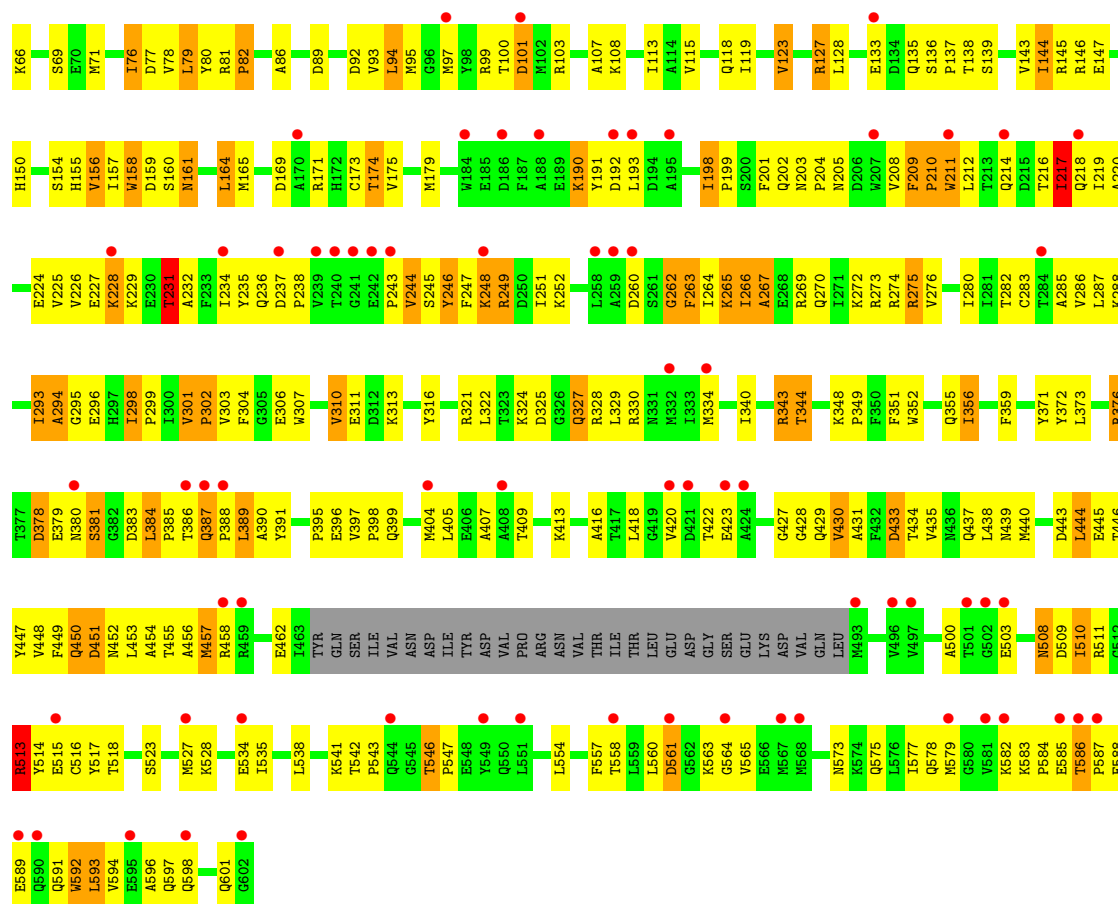
Chain V:



• Molecule 1: PORTAL PROTEIN

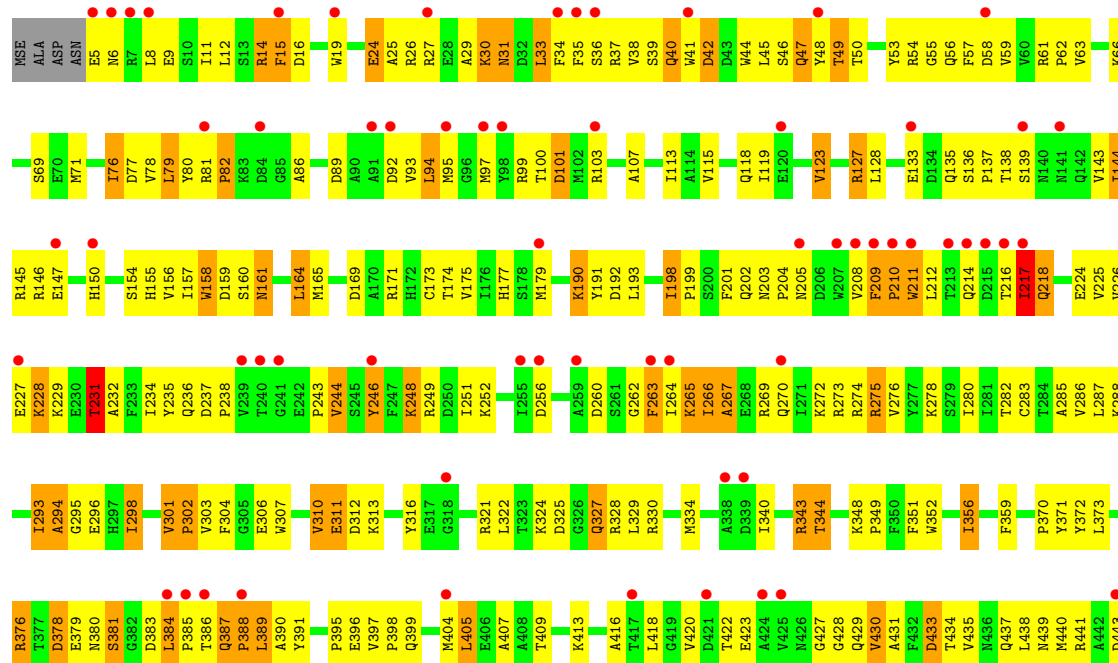
Chain W:

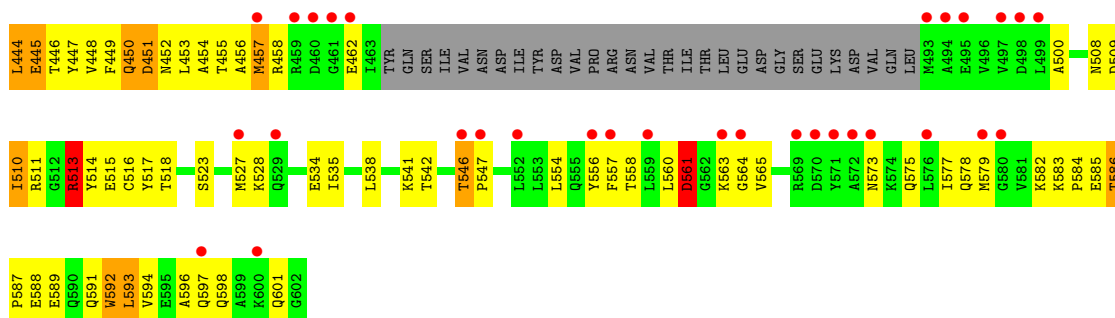




Molecule 1: PORTAL PROTEIN

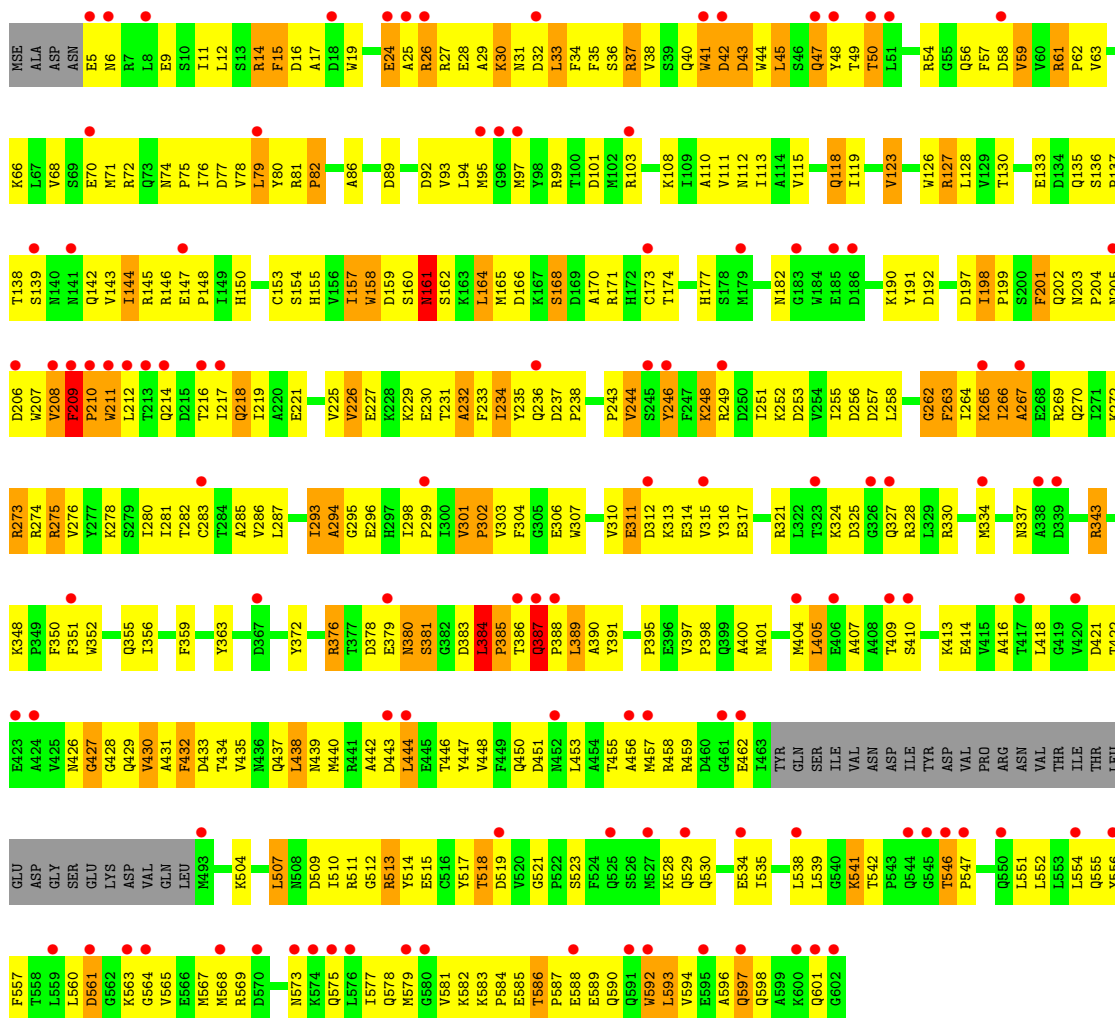
Chain X:





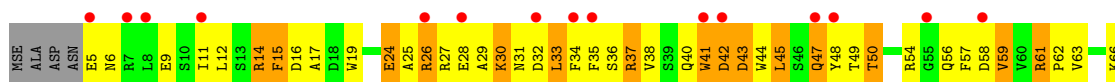
• Molecule 1: PORTAL PROTEIN

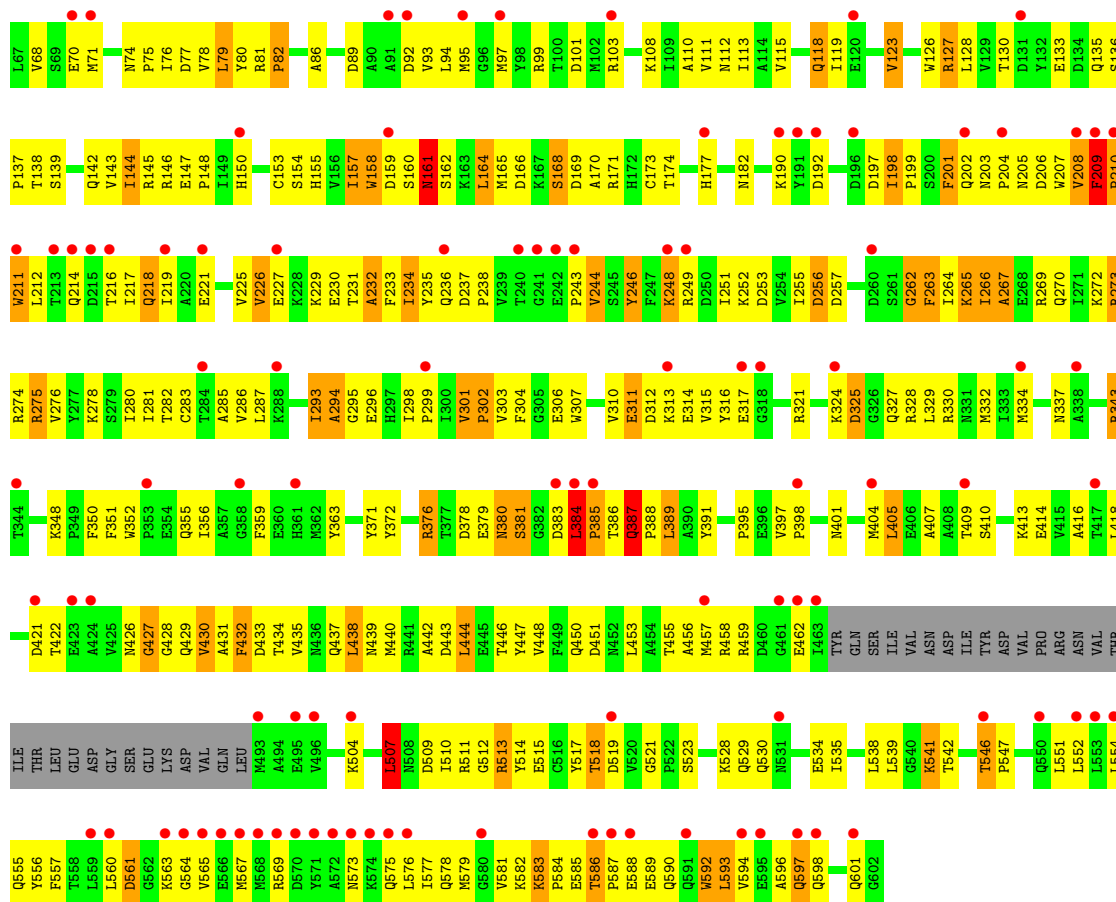
Chain A:



• Molecule 1: PORTAL PROTEIN

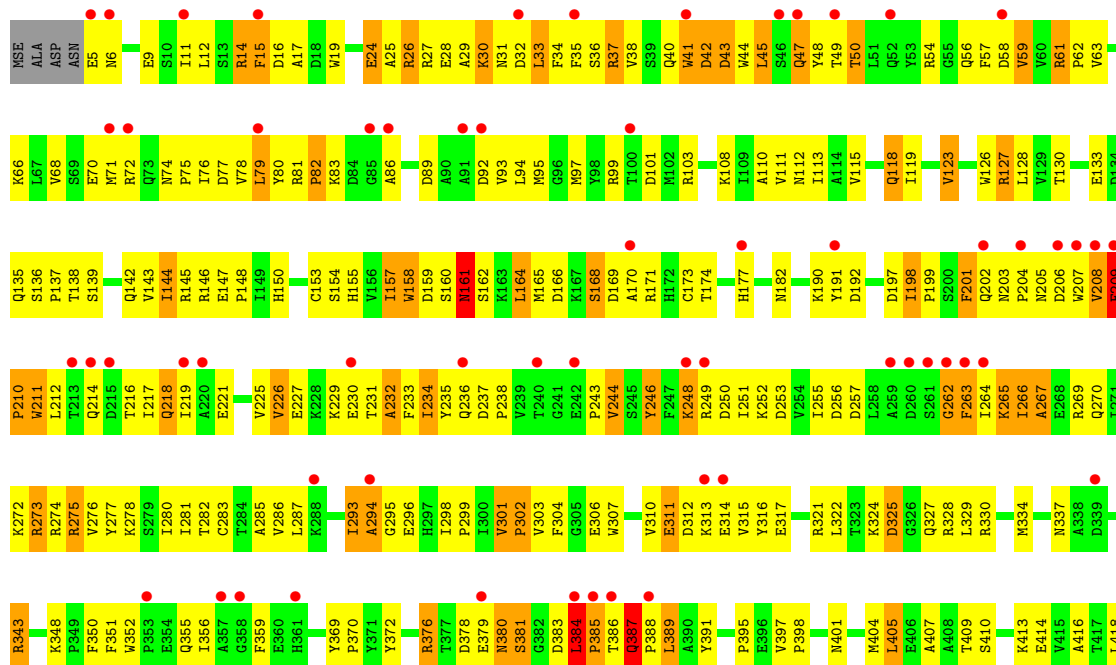
Chain B:

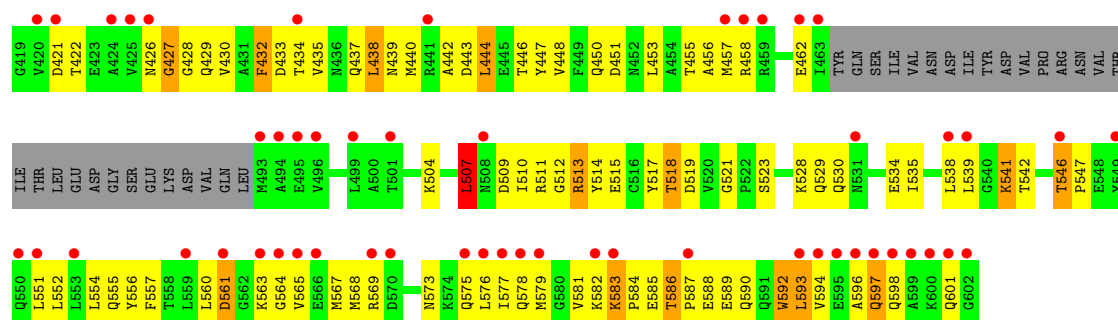




• Molecule 1: PORTAL PROTEIN

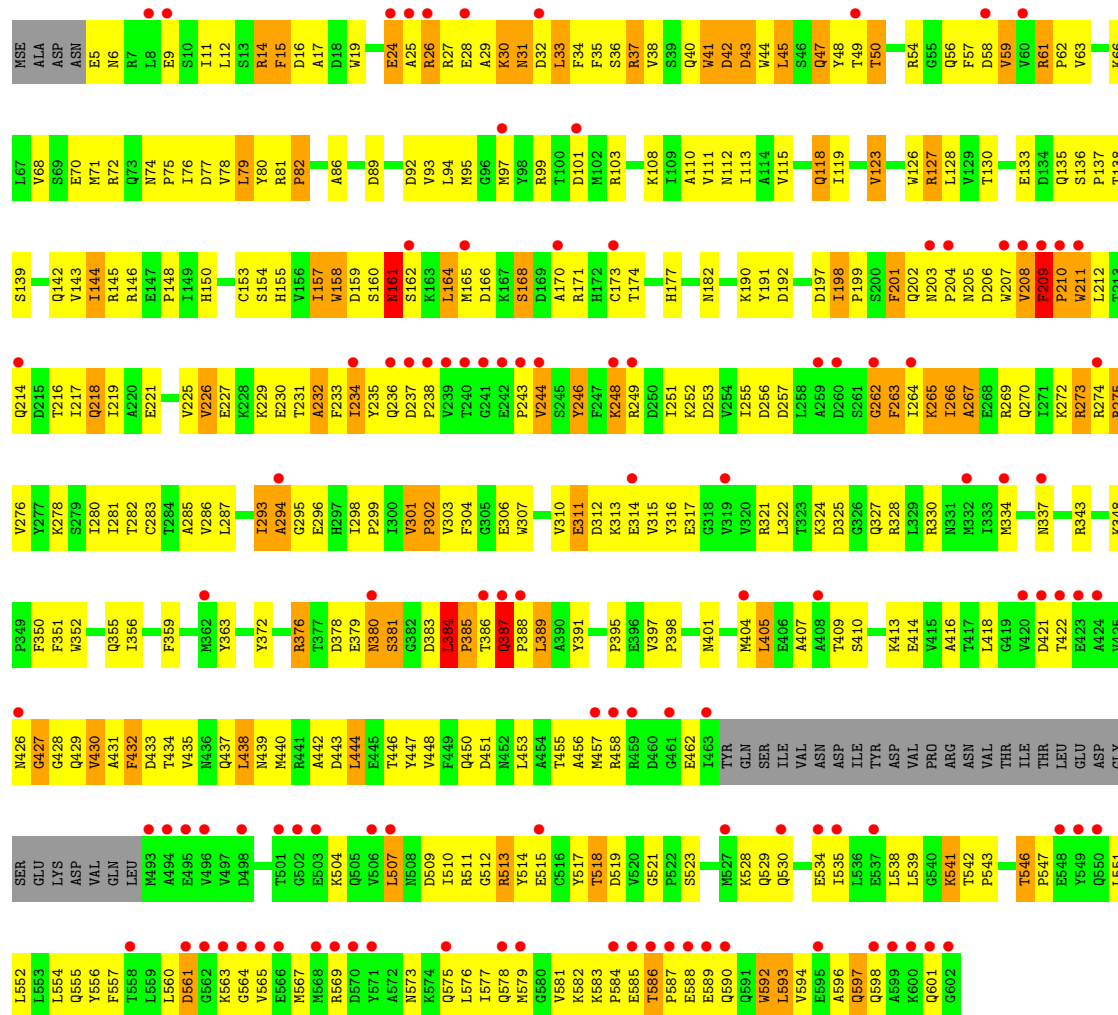
Chain C:





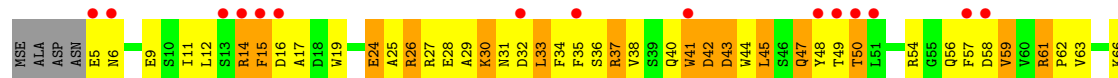
• Molecule 1: PORTAL PROTEIN

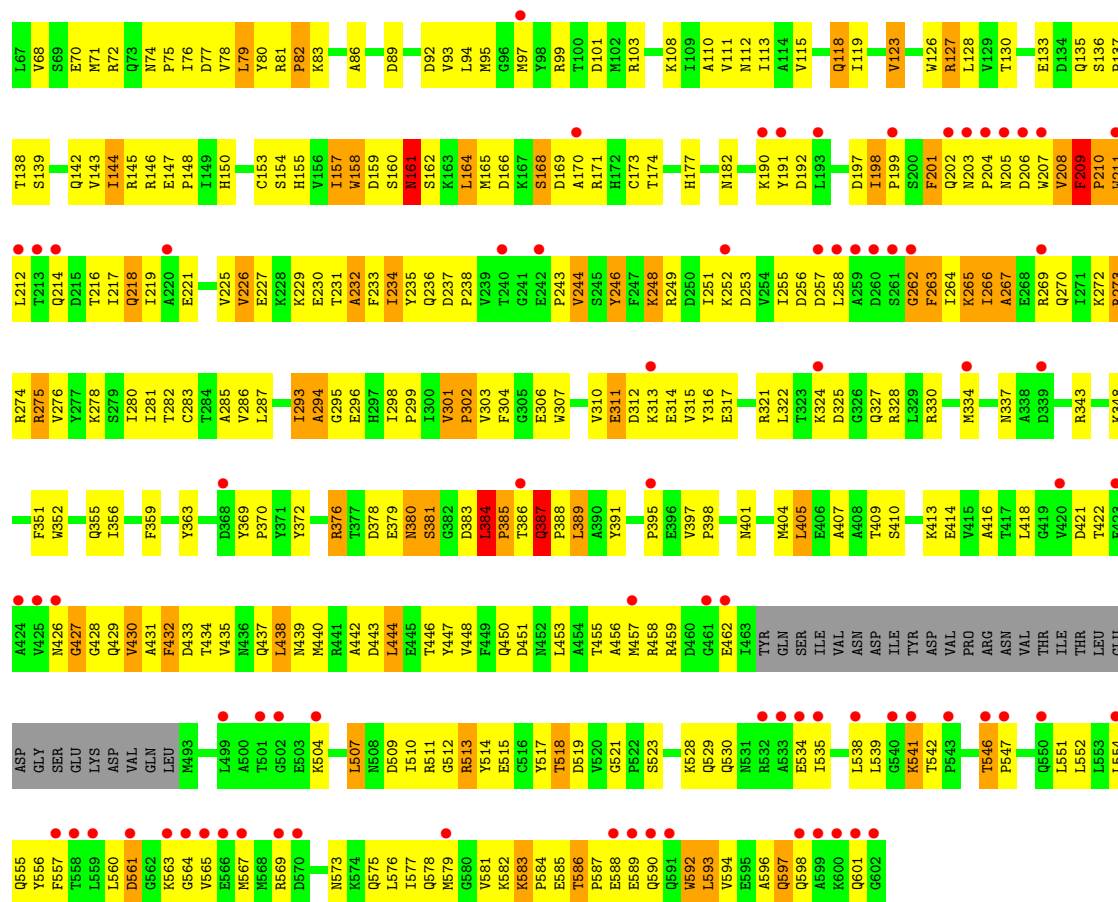
Chain D:



• Molecule 1: PORTAL PROTEIN

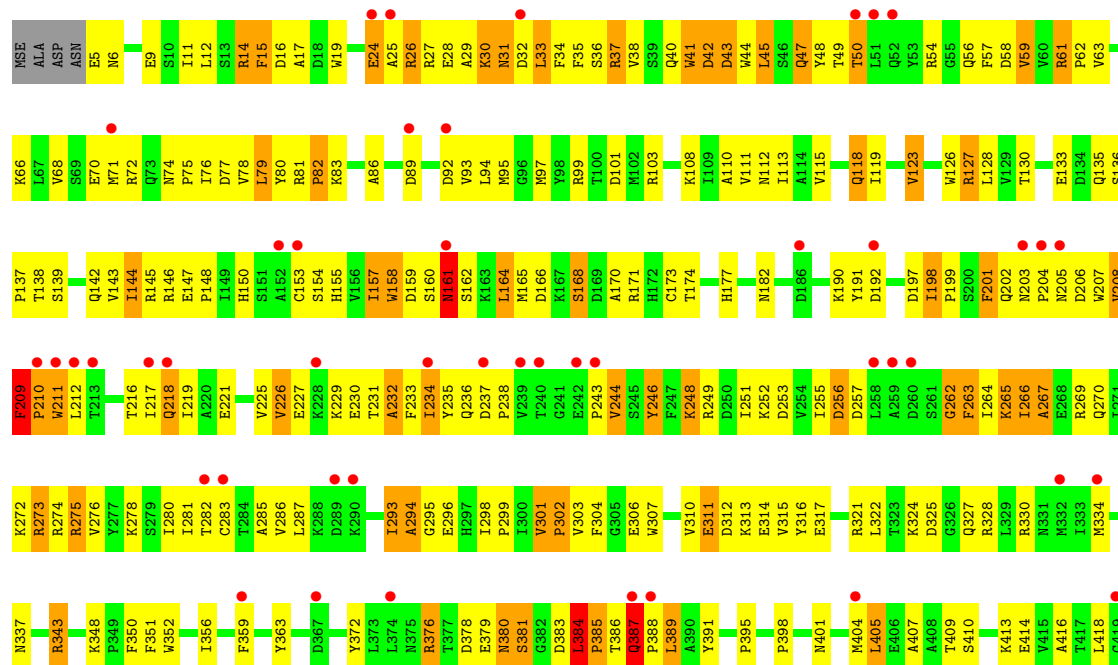
Chain E:

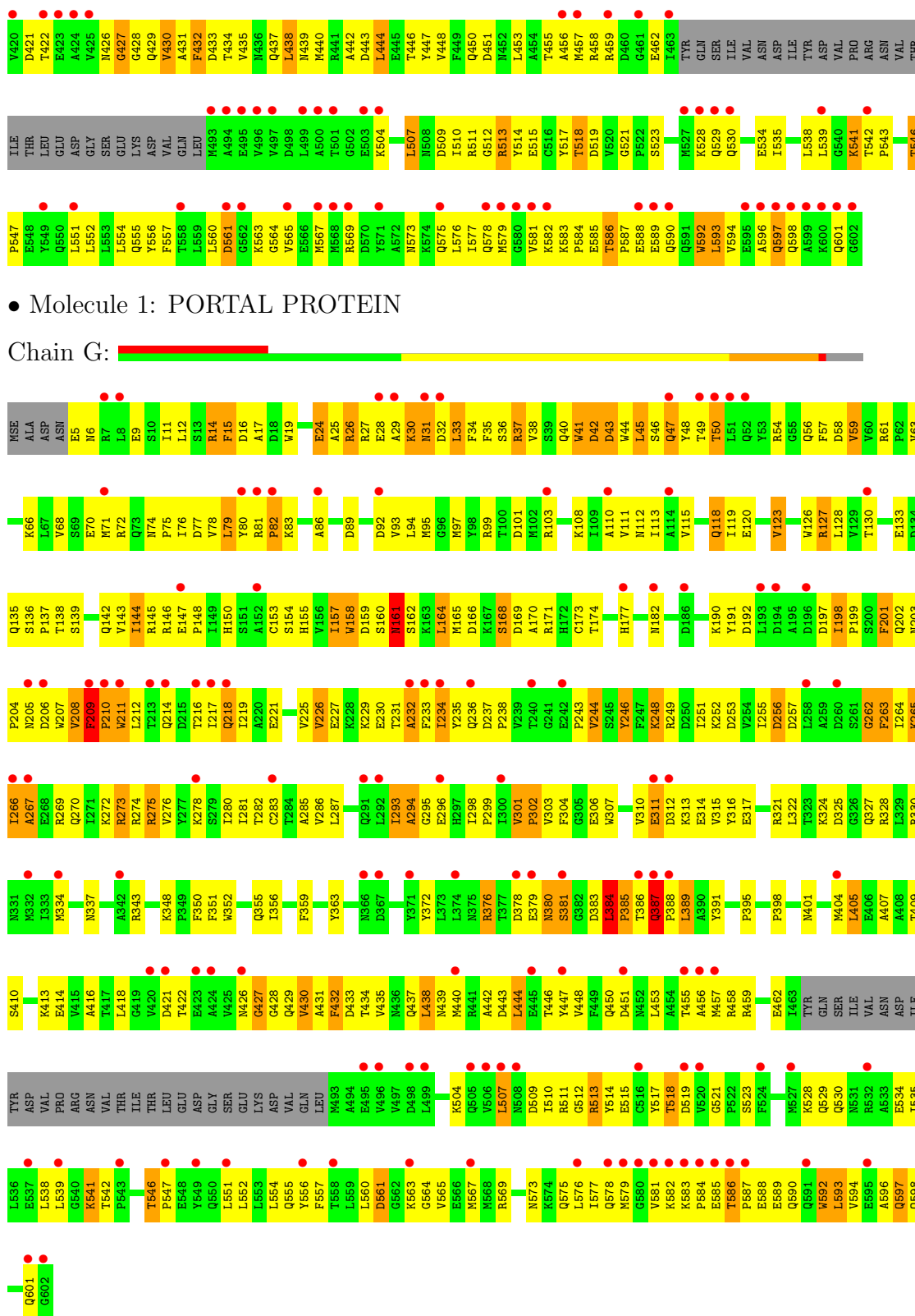




• Molecule 1: PORTAL PROTEIN

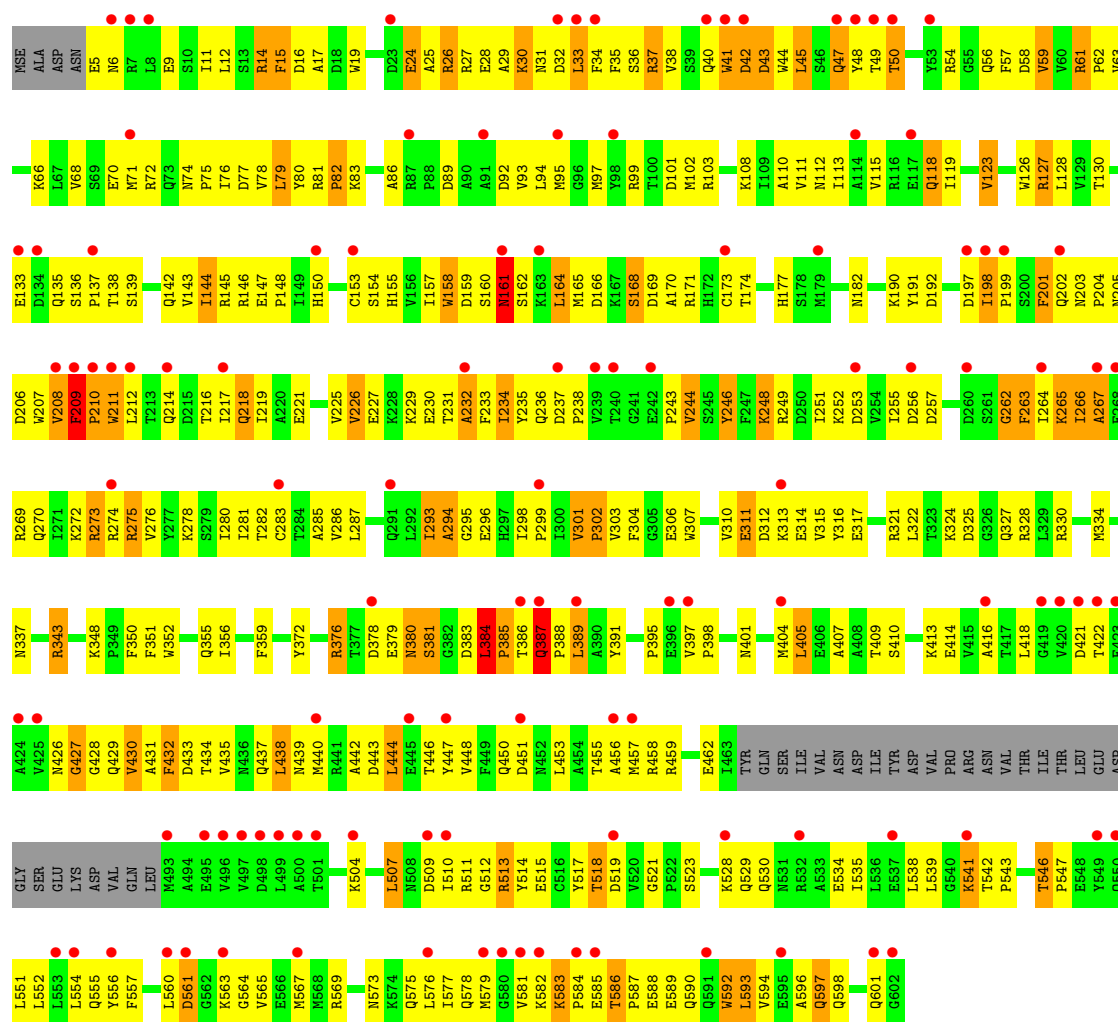
Chain F:





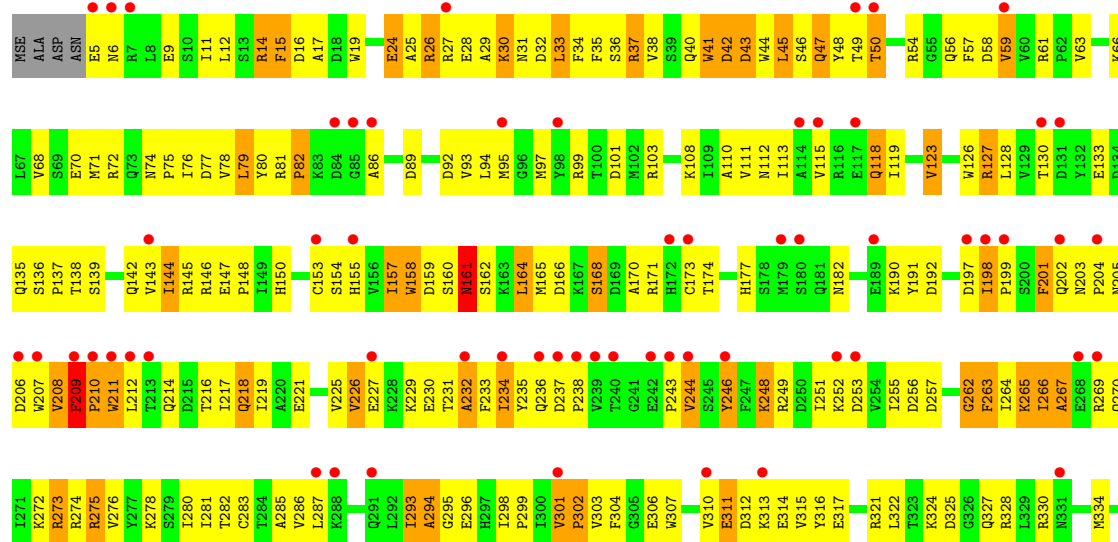
• Molecule 1: PORTAL PROTEIN

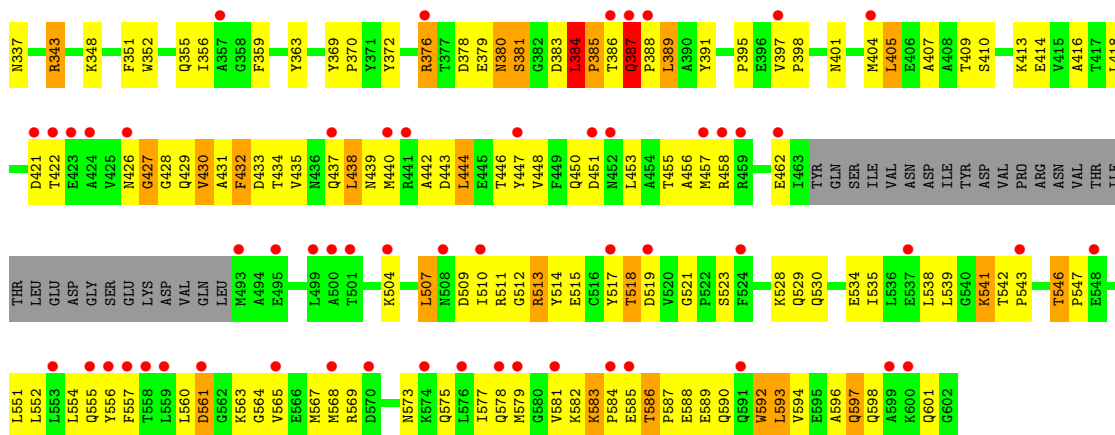
Chain H:



• Molecule 1: PORTAL PROTEIN

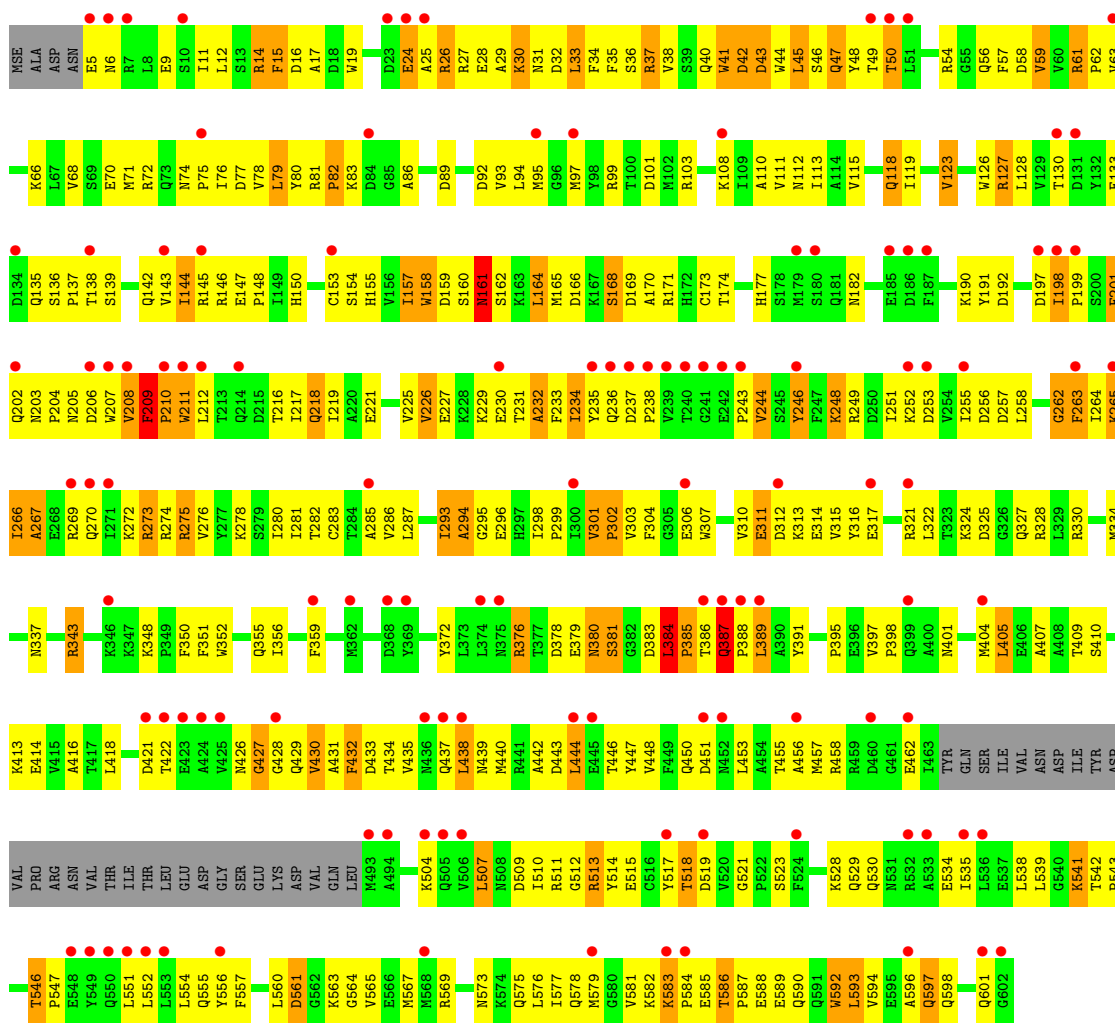
Chain I:





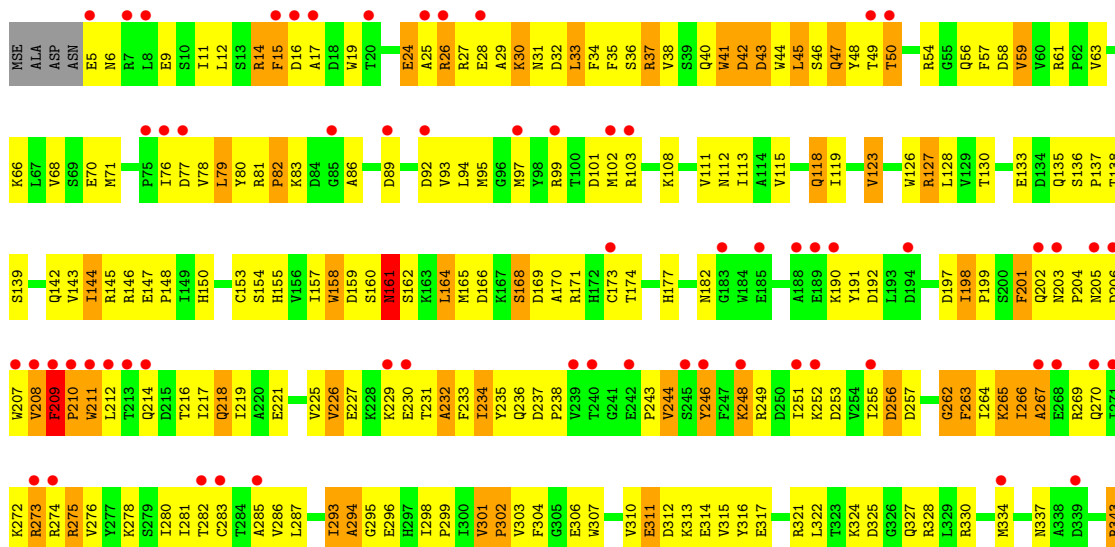
• Molecule 1: PORTAL PROTEIN

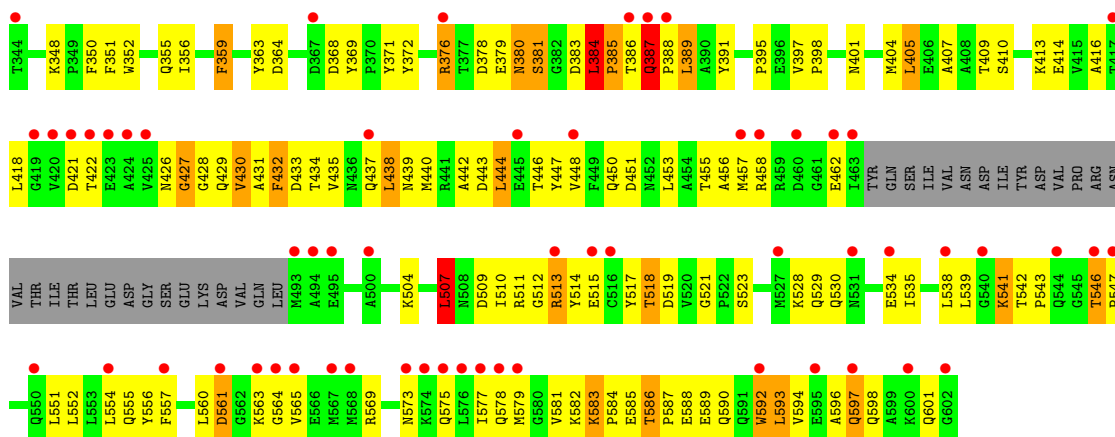
Chain J:



• Molecule 1: PORTAL PROTEIN

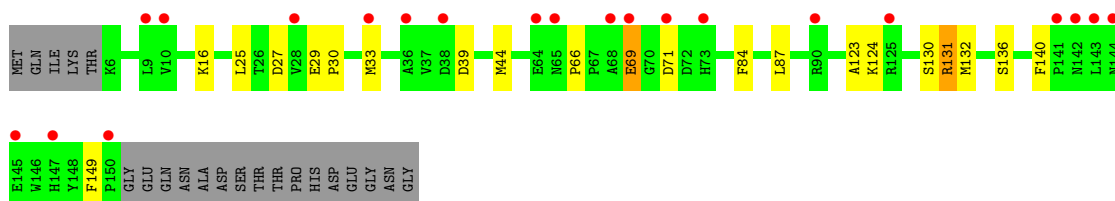
Chain K:





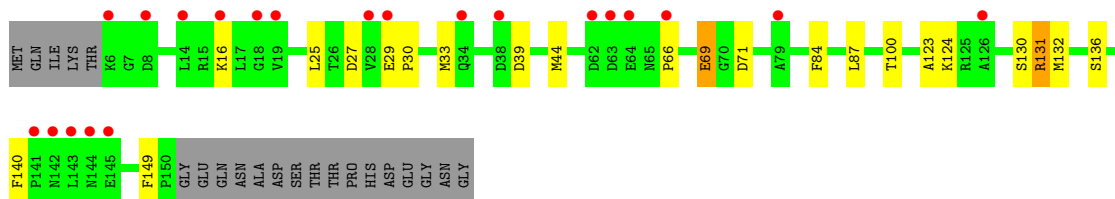
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain k:



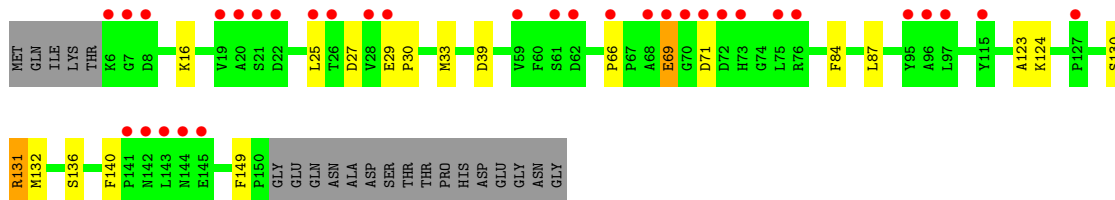
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain l:



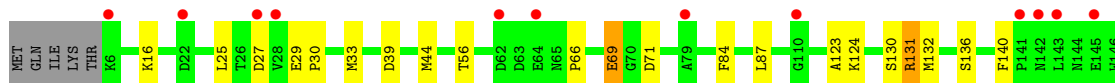
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

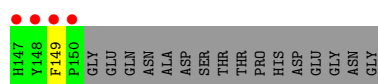
Chain m:



• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

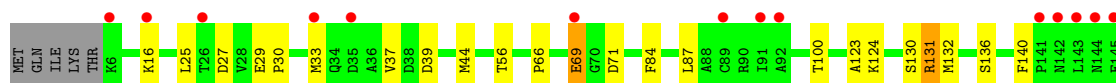
Chain n:





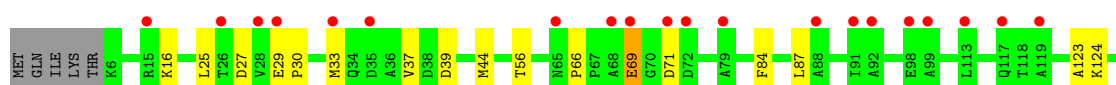
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain o:



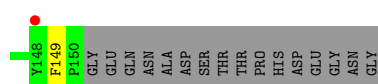
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain p:



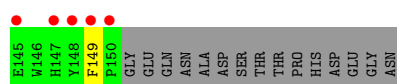
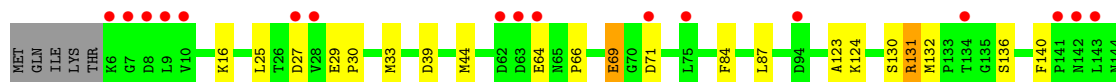
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain q:



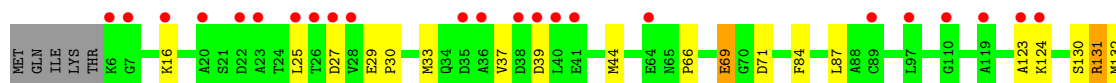
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

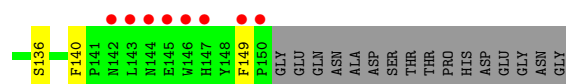
Chain r:



• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

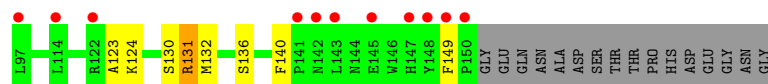
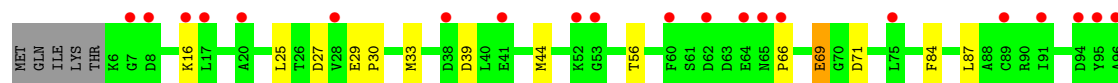
Chain s:





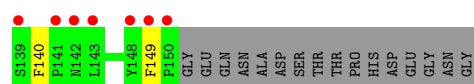
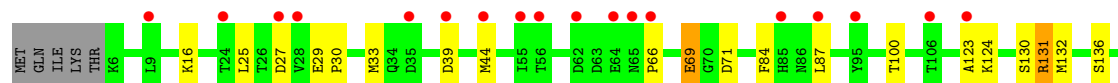
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain t:



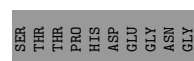
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain u:



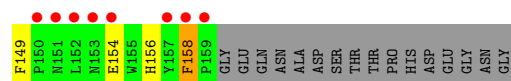
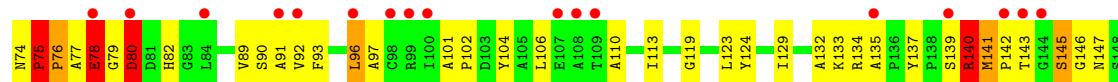
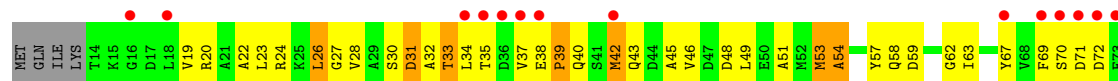
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain v:



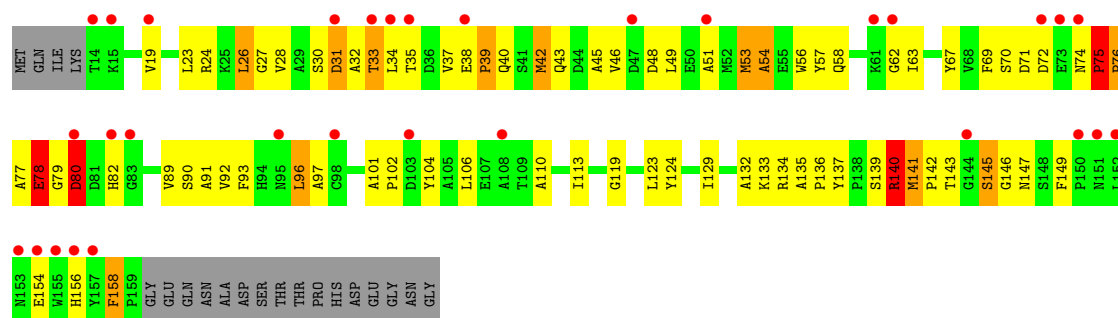
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain Y:



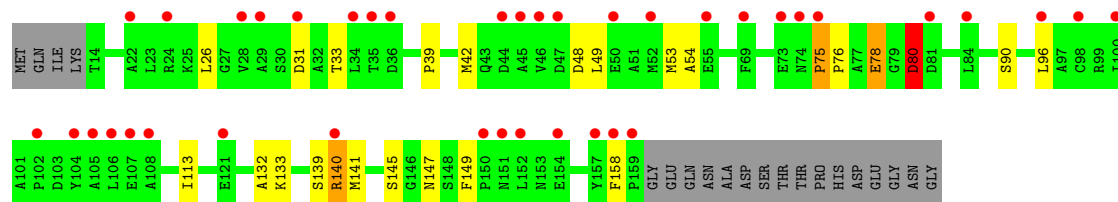
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain Z:



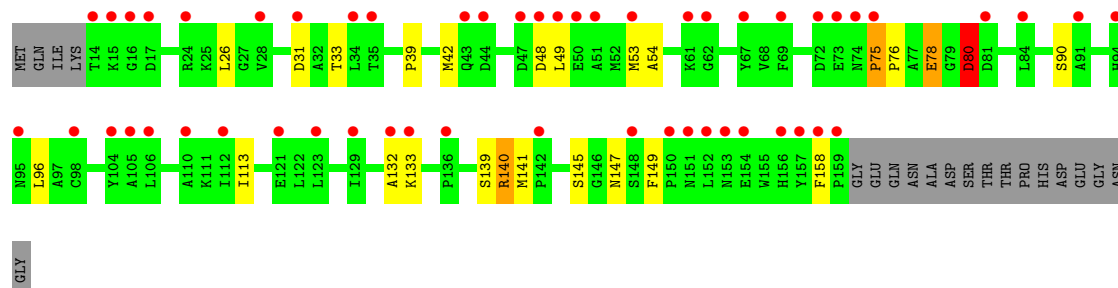
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain a:



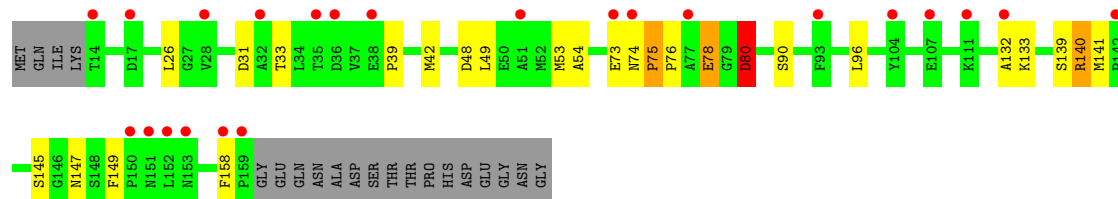
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain b:



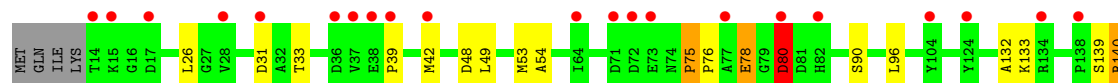
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

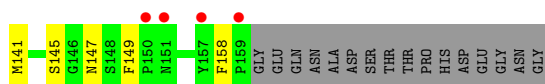
Chain c:



• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

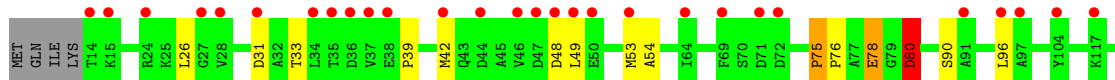
Chain d:





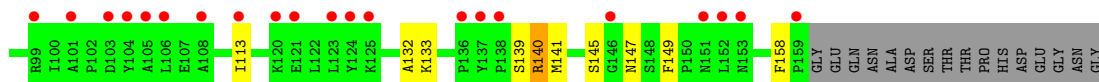
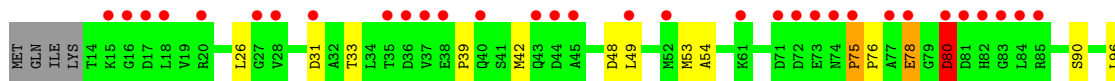
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain e:



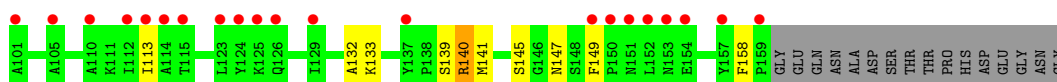
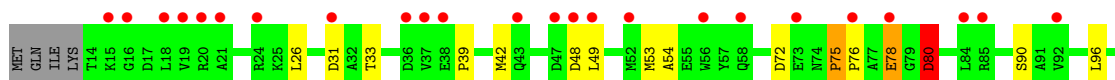
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain f:



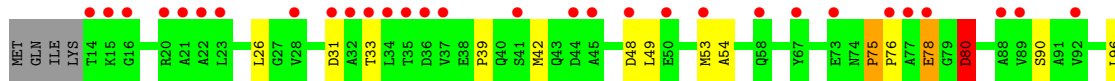
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain g:



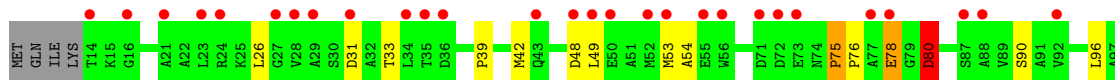
• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain h:



• Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

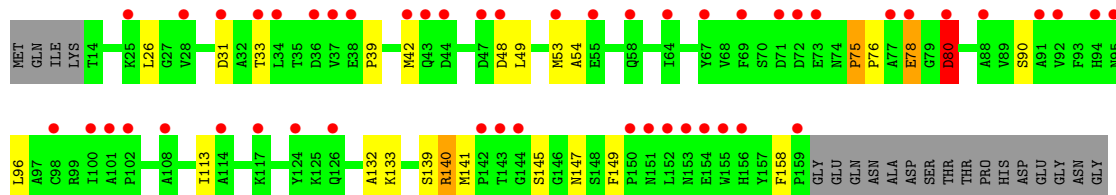
Chain i:





- Molecule 2: PACKAGED DNA STABILIZATION PROTEIN GP4

Chain j:



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	170.17Å 253.28Å 282.73Å 90.00° 90.68° 90.00°	Depositor
Resolution (Å)	19.99 – 3.25 78.75 – 3.23	Depositor EDS
% Data completeness (in resolution range)	59.7 (19.99-3.25) 91.6 (78.75-3.23)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.15	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.88 (at 3.26Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.6.4_486)	Depositor
R, R_{free}	0.222 , 0.236 0.293 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	65.0	Xtriage
Anisotropy	1.241	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 70.8	EDS
Estimated twinning fraction	0.025 for h,-k,-l	Xtriage
L-test for twinning	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtriage
Outliers	36 of 349411 reflections (0.010%)	Xtriage
F_o, F_c correlation	0.77	EDS
Total number of atoms	135120	wwPDB-VP
Average B, all atoms (Å ²)	92.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.69% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.35	0/4635	0.54	0/6265
1	B	0.35	0/4635	0.54	0/6265
1	C	0.35	0/4635	0.54	0/6265
1	D	0.35	0/4635	0.54	0/6265
1	E	0.35	0/4635	0.54	0/6265
1	F	0.35	0/4635	0.54	0/6265
1	G	0.35	0/4635	0.54	0/6265
1	H	0.35	0/4635	0.54	0/6265
1	I	0.35	0/4635	0.54	0/6265
1	J	0.35	0/4635	0.54	0/6265
1	K	0.35	0/4635	0.54	0/6265
1	L	0.35	0/4635	0.54	0/6265
1	M	0.31	0/4646	0.51	0/6278
1	N	0.32	0/4646	0.51	0/6278
1	O	0.32	0/4646	0.50	0/6278
1	P	0.32	0/4646	0.51	0/6278
1	Q	0.32	0/4646	0.51	0/6278
1	R	0.32	0/4646	0.51	0/6278
1	S	0.31	0/4646	0.51	0/6278
1	T	0.31	0/4646	0.50	0/6278
1	U	0.31	0/4646	0.51	0/6278
1	V	0.32	0/4646	0.51	0/6278
1	W	0.31	0/4646	0.55	2/6278 (0.0%)
1	X	0.31	0/4646	0.50	0/6278
2	Y	0.37	0/1067	0.84	4/1452 (0.3%)
2	Z	0.37	0/1067	0.85	4/1452 (0.3%)
2	a	0.37	0/1067	0.84	4/1452 (0.3%)
2	b	0.37	0/1067	0.84	4/1452 (0.3%)
2	c	0.37	0/1067	0.84	4/1452 (0.3%)
2	d	0.37	0/1067	0.84	4/1452 (0.3%)
2	e	0.37	0/1067	0.84	4/1452 (0.3%)
2	f	0.37	0/1067	0.84	4/1452 (0.3%)
2	g	0.37	0/1067	0.84	4/1452 (0.3%)
2	h	0.37	0/1067	0.84	4/1452 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
2	i	0.37	0/1067	0.85	4/1452 (0.3%)
2	j	0.37	0/1067	0.84	4/1452 (0.3%)
2	k	0.32	0/1071	0.52	0/1455
2	l	0.33	0/1071	0.52	0/1455
2	m	0.33	0/1071	0.51	0/1455
2	n	0.33	0/1071	0.51	0/1455
2	o	0.33	0/1071	0.51	0/1455
2	p	0.33	0/1071	0.51	0/1455
2	q	0.32	0/1071	0.51	0/1455
2	r	0.36	0/1071	0.51	0/1455
2	s	0.32	0/1071	0.52	0/1455
2	t	0.32	0/1071	0.51	0/1455
2	u	0.31	0/1071	0.51	0/1455
2	v	0.32	0/1071	0.51	0/1455
All	All	0.34	0/137028	0.56	50/185400 (0.0%)

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	A	0	1
1	B	0	1
1	C	0	1
1	D	0	1
1	E	0	1
1	F	0	1
1	G	0	1
1	H	0	1
1	I	0	1
1	J	0	1
1	K	0	1
1	L	0	1
1	M	0	1
1	N	0	1
1	O	0	1
1	P	0	1
1	Q	0	1
1	R	0	1
1	S	0	1
1	T	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	U	0	1
1	V	0	1
1	W	0	1
1	X	0	1
All	All	0	24

There are no bond length outliers.

All (50) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	i	80	ASP	N-CA-CB	17.19	141.54	110.60
2	d	80	ASP	N-CA-CB	17.18	141.52	110.60
2	Z	80	ASP	N-CA-CB	17.17	141.51	110.60
2	Y	80	ASP	N-CA-CB	17.17	141.50	110.60
2	e	80	ASP	N-CA-CB	17.17	141.50	110.60
2	a	80	ASP	N-CA-CB	17.17	141.50	110.60
2	j	80	ASP	N-CA-CB	17.17	141.50	110.60
2	b	80	ASP	N-CA-CB	17.16	141.48	110.60
2	f	80	ASP	N-CA-CB	17.16	141.48	110.60
2	g	80	ASP	N-CA-CB	17.16	141.48	110.60
2	c	80	ASP	N-CA-CB	17.15	141.48	110.60
2	h	80	ASP	N-CA-CB	17.14	141.45	110.60
1	W	249	ARG	NE-CZ-NH2	-15.09	112.75	120.30
2	a	75	PRO	C-N-CD	-9.11	100.57	120.60
2	c	75	PRO	C-N-CD	-9.09	100.60	120.60
2	Z	75	PRO	C-N-CD	-9.09	100.61	120.60
2	f	75	PRO	C-N-CD	-9.08	100.62	120.60
2	i	75	PRO	C-N-CD	-9.08	100.62	120.60
2	Y	75	PRO	C-N-CD	-9.08	100.62	120.60
2	e	75	PRO	C-N-CD	-9.08	100.62	120.60
2	g	75	PRO	C-N-CD	-9.08	100.62	120.60
2	j	75	PRO	C-N-CD	-9.08	100.63	120.60
2	b	75	PRO	C-N-CD	-9.07	100.64	120.60
2	d	75	PRO	C-N-CD	-9.07	100.64	120.60
2	h	75	PRO	C-N-CD	-9.07	100.65	120.60
2	f	80	ASP	N-CA-C	-8.92	86.93	111.00
2	g	80	ASP	N-CA-C	-8.91	86.93	111.00
2	i	80	ASP	N-CA-C	-8.91	86.94	111.00
2	Z	80	ASP	N-CA-C	-8.91	86.95	111.00
2	Y	80	ASP	N-CA-C	-8.90	86.96	111.00
2	e	80	ASP	N-CA-C	-8.90	86.97	111.00
2	c	80	ASP	N-CA-C	-8.90	86.97	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	d	80	ASP	N-CA-C	-8.90	86.98	111.00
2	b	80	ASP	N-CA-C	-8.89	86.98	111.00
2	j	80	ASP	N-CA-C	-8.89	86.99	111.00
2	h	80	ASP	N-CA-C	-8.89	87.00	111.00
2	a	80	ASP	N-CA-C	-8.89	87.00	111.00
1	W	249	ARG	NE-CZ-NH1	7.82	124.21	120.30
2	a	31	ASP	CB-CG-OD2	5.22	123.00	118.30
2	i	31	ASP	CB-CG-OD2	5.22	123.00	118.30
2	Z	31	ASP	CB-CG-OD2	5.21	122.99	118.30
2	c	31	ASP	CB-CG-OD2	5.21	122.99	118.30
2	j	31	ASP	CB-CG-OD2	5.20	122.98	118.30
2	d	31	ASP	CB-CG-OD2	5.20	122.98	118.30
2	Y	31	ASP	CB-CG-OD2	5.18	122.97	118.30
2	g	31	ASP	CB-CG-OD2	5.18	122.97	118.30
2	b	31	ASP	CB-CG-OD2	5.18	122.96	118.30
2	f	31	ASP	CB-CG-OD2	5.17	122.95	118.30
2	e	31	ASP	CB-CG-OD2	5.15	122.94	118.30
2	h	31	ASP	CB-CG-OD2	5.12	122.91	118.30

There are no chirality outliers.

All (24) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	231	THR	Peptide
1	B	231	THR	Peptide
1	C	231	THR	Peptide
1	D	231	THR	Peptide
1	E	231	THR	Peptide
1	F	231	THR	Peptide
1	G	231	THR	Peptide
1	H	231	THR	Peptide
1	I	231	THR	Peptide
1	J	231	THR	Peptide
1	K	231	THR	Peptide
1	L	231	THR	Peptide
1	M	231	THR	Peptide
1	N	231	THR	Peptide
1	O	231	THR	Peptide
1	P	231	THR	Peptide
1	Q	231	THR	Peptide
1	R	231	THR	Peptide
1	S	231	THR	Peptide

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Mol	Chain	Res	Type	Group
1	T	231	THR	Peptide
1	U	231	THR	Peptide
1	V	231	THR	Peptide
1	W	231	THR	Peptide
1	X	231	THR	Peptide

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	4553	0	4351	430	0
1	B	4553	0	4351	437	2
1	C	4553	0	4351	432	4
1	D	4553	0	4351	423	0
1	E	4553	0	4351	430	0
1	F	4553	0	4351	428	0
1	G	4553	0	4351	430	0
1	H	4553	0	4351	424	0
1	I	4553	0	4351	433	0
1	J	4553	0	4351	430	0
1	K	4553	0	4351	431	0
1	L	4553	0	4351	441	0
1	M	4564	0	4368	365	0
1	N	4564	0	4368	375	5
1	O	4564	0	4368	363	0
1	P	4564	0	4368	371	0
1	Q	4564	0	4368	373	0
1	R	4564	0	4368	385	0
1	S	4564	0	4368	364	3
1	T	4564	0	4368	366	0
1	U	4564	0	4368	374	0
1	V	4564	0	4368	368	0
1	W	4564	0	4368	364	1
1	X	4564	0	4368	364	0
2	Y	1048	0	957	111	0
2	Z	1048	0	957	108	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	a	1048	0	957	0	0
2	b	1048	0	957	0	0
2	c	1048	0	957	0	4
2	d	1048	0	957	0	0
2	e	1048	0	957	0	0
2	f	1048	0	957	0	0
2	g	1048	0	957	0	1
2	h	1048	0	957	0	0
2	i	1048	0	957	0	0
2	j	1048	0	957	0	0
2	k	1052	0	975	0	0
2	l	1052	0	975	0	0
2	m	1052	0	975	0	0
2	n	1052	0	975	0	0
2	o	1052	0	975	0	0
2	p	1052	0	975	0	0
2	q	1052	0	975	0	0
2	r	1052	0	975	0	3
2	s	1052	0	975	0	0
2	t	1052	0	975	0	0
2	u	1052	0	975	0	0
2	v	1052	0	975	0	3
3	A	22	0	0	1	0
3	B	22	0	0	1	0
3	C	22	0	0	1	0
3	D	22	0	0	1	0
3	E	22	0	0	2	0
3	F	22	0	0	2	0
3	G	22	0	0	1	0
3	H	22	0	0	2	0
3	I	22	0	0	1	0
3	J	22	0	0	2	0
3	K	22	0	0	2	0
3	L	22	0	0	2	0
3	M	21	0	0	4	0
3	N	21	0	0	4	0
3	O	21	0	0	3	0
3	P	21	0	0	5	0
3	Q	21	0	0	5	0
3	R	21	0	0	4	0
3	S	21	0	0	4	0
3	T	21	0	0	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	U	21	0	0	3	0
3	V	21	0	0	4	0
3	W	21	0	0	4	0
3	X	21	0	0	4	0
All	All	135120	0	127812	9241	13

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 42.

All (9241) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:Z:32:ALA:O	2:Z:33:THR:CG2	1.82	1.27
2:Z:32:ALA:O	2:Z:33:THR:HG23	1.12	1.26
2:Y:32:ALA:O	2:Y:33:THR:CG2	1.82	1.26
2:Y:32:ALA:O	2:Y:33:THR:HG23	1.12	1.24
2:Z:28:VAL:HG21	2:Z:96:LEU:CD1	1.68	1.23
2:Y:28:VAL:HG21	2:Y:96:LEU:CD1	1.68	1.21
2:Z:53:MET:CE	2:Z:92:VAL:HG12	1.72	1.20
2:Y:53:MET:CE	2:Y:92:VAL:HG12	1.72	1.18
1:D:78:VAL:HG21	1:D:444:LEU:HD11	1.28	1.16
1:J:78:VAL:HG21	1:J:444:LEU:HD11	1.28	1.16
2:Y:53:MET:CE	2:Y:92:VAL:CG1	2.24	1.15
1:L:78:VAL:HG21	1:L:444:LEU:HD11	1.29	1.15
1:E:78:VAL:HG21	1:E:444:LEU:HD11	1.29	1.15
2:Z:53:MET:CE	2:Z:92:VAL:CG1	2.24	1.15
1:B:78:VAL:HG21	1:B:444:LEU:HD11	1.28	1.15
1:I:78:VAL:HG21	1:I:444:LEU:HD11	1.29	1.15
1:H:78:VAL:HG21	1:H:444:LEU:HD11	1.29	1.15
2:Z:28:VAL:CG1	2:Z:97:ALA:HA	1.77	1.14
2:Y:28:VAL:CG1	2:Y:97:ALA:HA	1.77	1.14
2:Z:42:MET:HG3	2:Z:42:MET:O	1.42	1.13
1:G:78:VAL:HG21	1:G:444:LEU:HD11	1.28	1.13
1:C:78:VAL:HG21	1:C:444:LEU:HD11	1.28	1.12
1:Q:560:LEU:HD13	1:R:82:PRO:HD2	1.31	1.12
2:Y:42:MET:HG3	2:Y:42:MET:O	1.42	1.11
1:K:78:VAL:HG21	1:K:444:LEU:HD11	1.28	1.11
1:K:560:LEU:HD13	1:L:82:PRO:HD2	1.29	1.11
1:A:139:SER:HB3	1:A:455:THR:HG23	1.34	1.10
1:F:139:SER:HB3	1:F:455:THR:HG23	1.34	1.10
1:A:78:VAL:HG21	1:A:444:LEU:HD11	1.29	1.09
1:H:139:SER:HB3	1:H:455:THR:HG23	1.34	1.09
2:Z:28:VAL:HG13	2:Z:97:ALA:CA	1.83	1.09

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:14:ARG:HA	1:L:14:ARG:HE	1.19	1.08
2:Z:28:VAL:HG21	2:Z:96:LEU:HD13	1.36	1.08
2:Z:31:ASP:OD2	2:Z:93:PHE:HE2	1.36	1.08
2:Y:53:MET:HE1	2:Y:92:VAL:CG1	1.79	1.08
1:F:78:VAL:HG21	1:F:444:LEU:HD11	1.29	1.08
1:G:139:SER:HB3	1:G:455:THR:HG23	1.34	1.08
1:K:139:SER:HB3	1:K:455:THR:HG23	1.34	1.08
1:E:14:ARG:HE	1:E:14:ARG:HA	1.19	1.07
2:Y:28:VAL:HG13	2:Y:97:ALA:CA	1.83	1.07
1:F:14:ARG:HA	1:F:14:ARG:HE	1.19	1.07
2:Z:53:MET:HE1	2:Z:92:VAL:CG1	1.81	1.07
2:Y:28:VAL:HG21	2:Y:96:LEU:HD13	1.35	1.07
1:L:139:SER:HB3	1:L:455:THR:HG23	1.34	1.07
1:G:14:ARG:HA	1:G:14:ARG:HE	1.19	1.07
1:N:78:VAL:HG21	1:N:444:LEU:HD11	1.37	1.06
1:V:78:VAL:HG21	1:V:444:LEU:HD11	1.35	1.06
1:X:78:VAL:HG21	1:X:444:LEU:HD11	1.38	1.06
1:J:139:SER:HB3	1:J:455:THR:HG23	1.34	1.06
1:I:41:TRP:CZ3	1:I:42:ASP:HB2	1.90	1.06
1:D:41:TRP:CZ3	1:D:42:ASP:HB2	1.91	1.06
1:C:139:SER:HB3	1:C:455:THR:HG23	1.34	1.06
1:U:78:VAL:HG21	1:U:444:LEU:HD11	1.37	1.06
1:J:560:LEU:HD13	1:K:82:PRO:HD2	1.34	1.06
1:K:41:TRP:CZ3	1:K:42:ASP:HB2	1.91	1.06
1:F:41:TRP:CZ3	1:F:42:ASP:HB2	1.91	1.05
1:J:41:TRP:CZ3	1:J:42:ASP:HB2	1.91	1.05
2:Y:28:VAL:CG1	2:Y:97:ALA:CA	2.34	1.05
1:H:41:TRP:CZ3	1:H:42:ASP:HB2	1.90	1.05
1:C:41:TRP:CZ3	1:C:42:ASP:HB2	1.90	1.05
1:K:14:ARG:HE	1:K:14:ARG:HA	1.18	1.05
1:L:41:TRP:CZ3	1:L:42:ASP:HB2	1.91	1.05
1:T:78:VAL:HG21	1:T:444:LEU:HD11	1.37	1.05
1:S:14:ARG:HA	1:S:14:ARG:HE	1.21	1.05
1:A:41:TRP:CZ3	1:A:42:ASP:HB2	1.90	1.05
1:G:41:TRP:CZ3	1:G:42:ASP:HB2	1.91	1.05
1:B:41:TRP:CZ3	1:B:42:ASP:HB2	1.91	1.04
1:B:139:SER:HB3	1:B:455:THR:HG23	1.34	1.04
1:C:14:ARG:HE	1:C:14:ARG:HA	1.19	1.04
1:E:139:SER:HB3	1:E:455:THR:HG23	1.34	1.04
2:Z:28:VAL:CG1	2:Z:97:ALA:CA	2.34	1.04
2:Y:31:ASP:OD2	2:Y:93:PHE:HE2	1.36	1.04
1:M:14:ARG:HE	1:M:14:ARG:HA	1.21	1.04

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:78:VAL:HG21	1:O:444:LEU:HD11	1.38	1.04
1:X:14:ARG:HA	1:X:14:ARG:HE	1.22	1.04
1:E:41:TRP:CZ3	1:E:42:ASP:HB2	1.90	1.04
1:O:14:ARG:HE	1:O:14:ARG:HA	1.23	1.03
1:A:41:TRP:CE3	1:A:42:ASP:N	2.26	1.03
1:D:41:TRP:CE3	1:D:42:ASP:N	2.26	1.03
1:D:82:PRO:HD2	1:E:560:LEU:HD13	1.37	1.03
1:R:78:VAL:HG21	1:R:444:LEU:HD11	1.36	1.03
1:N:14:ARG:HA	1:N:14:ARG:HE	1.21	1.03
1:I:139:SER:HB3	1:I:455:THR:HG23	1.34	1.03
1:F:41:TRP:CE3	1:F:42:ASP:N	2.26	1.03
1:H:560:LEU:HD13	1:I:82:PRO:HD2	1.40	1.03
1:Q:78:VAL:HG21	1:Q:444:LEU:HD11	1.38	1.03
1:W:78:VAL:HG21	1:W:444:LEU:HD11	1.36	1.03
1:E:41:TRP:CE3	1:E:42:ASP:N	2.26	1.03
1:M:78:VAL:HG21	1:M:444:LEU:HD11	1.37	1.03
1:D:14:ARG:HE	1:D:14:ARG:HA	1.19	1.03
1:P:78:VAL:HG21	1:P:444:LEU:HD11	1.39	1.02
1:W:14:ARG:HA	1:W:14:ARG:HE	1.23	1.02
1:H:41:TRP:CE3	1:H:42:ASP:N	2.26	1.02
1:L:41:TRP:CE3	1:L:42:ASP:N	2.26	1.02
1:G:41:TRP:CE3	1:G:42:ASP:N	2.26	1.02
1:A:82:PRO:HD2	1:L:560:LEU:HD13	1.38	1.02
1:A:14:ARG:HE	1:A:14:ARG:HA	1.19	1.02
1:K:41:TRP:CE3	1:K:42:ASP:N	2.26	1.02
1:B:14:ARG:HA	1:B:14:ARG:HE	1.19	1.02
1:I:41:TRP:CE3	1:I:42:ASP:N	2.26	1.02
1:B:41:TRP:CE3	1:B:42:ASP:N	2.26	1.02
1:N:82:PRO:HD2	1:V:560:LEU:HD13	1.38	1.02
1:F:560:LEU:HD13	1:G:82:PRO:HD2	1.42	1.01
1:J:41:TRP:CE3	1:J:42:ASP:N	2.26	1.01
1:D:139:SER:HB3	1:D:455:THR:HG23	1.34	1.01
1:H:14:ARG:HA	1:H:14:ARG:HE	1.19	1.01
1:C:41:TRP:CE3	1:C:42:ASP:N	2.26	1.01
1:V:82:PRO:HD2	1:W:560:LEU:HD13	1.42	1.01
1:V:14:ARG:HA	1:V:14:ARG:HE	1.21	1.01
1:U:14:ARG:HA	1:U:14:ARG:HE	1.21	1.01
1:R:14:ARG:HA	1:R:14:ARG:HE	1.21	1.01
1:Q:14:ARG:HE	1:Q:14:ARG:HA	1.23	1.01
1:I:14:ARG:HA	1:I:14:ARG:HE	1.19	1.01
2:Z:53:MET:HE1	2:Z:92:VAL:HG12	1.01	1.01
1:J:14:ARG:HA	1:J:14:ARG:HE	1.19	1.01

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:546:THR:HG23	1:T:547:PRO:HD3	1.43	1.01
1:S:78:VAL:HG21	1:S:444:LEU:HD11	1.38	1.00
1:D:158:TRP:HE3	1:D:173:CYS:HG	1.01	1.00
1:C:58:ASP:O	1:C:59:VAL:HG12	1.62	1.00
1:P:14:ARG:HE	1:P:14:ARG:HA	1.23	1.00
1:T:14:ARG:HE	1:T:14:ARG:HA	1.22	1.00
1:D:560:LEU:HD13	1:F:82:PRO:HD2	1.44	1.00
1:J:58:ASP:O	1:J:59:VAL:HG12	1.62	1.00
1:B:58:ASP:O	1:B:59:VAL:HG12	1.62	1.00
2:Z:24:ARG:O	2:Z:28:VAL:HG23	1.60	1.00
1:Q:546:THR:HG23	1:Q:547:PRO:HD3	1.43	1.00
1:A:58:ASP:O	1:A:59:VAL:HG12	1.62	0.99
1:W:546:THR:HG23	1:W:547:PRO:HD3	1.44	0.99
1:G:158:TRP:HE3	1:G:173:CYS:HG	1.03	0.99
1:K:58:ASP:O	1:K:59:VAL:HG12	1.62	0.99
1:G:58:ASP:O	1:G:59:VAL:HG12	1.62	0.99
1:H:58:ASP:O	1:H:59:VAL:HG12	1.62	0.99
1:F:58:ASP:O	1:F:59:VAL:HG12	1.62	0.99
1:K:158:TRP:HE3	1:K:173:CYS:HG	1.03	0.99
2:Y:24:ARG:O	2:Y:28:VAL:HG23	1.61	0.99
1:L:158:TRP:HE3	1:L:173:CYS:HG	1.05	0.99
1:O:546:THR:HG23	1:O:547:PRO:HD3	1.44	0.99
1:V:546:THR:HG23	1:V:547:PRO:HD3	1.44	0.99
1:E:58:ASP:O	1:E:59:VAL:HG12	1.62	0.99
1:T:560:LEU:HD13	1:W:82:PRO:HD2	1.41	0.99
1:X:248:LYS:HB3	1:X:511:ARG:HH11	1.25	0.98
1:U:82:PRO:HD2	1:X:560:LEU:HD13	1.45	0.98
1:P:560:LEU:HD13	1:Q:82:PRO:HD2	1.43	0.98
1:R:248:LYS:HB3	1:R:511:ARG:HH11	1.27	0.98
1:S:248:LYS:HB3	1:S:511:ARG:HH11	1.29	0.98
1:C:158:TRP:HE3	1:C:173:CYS:HG	1.00	0.98
1:L:58:ASP:O	1:L:59:VAL:HG12	1.62	0.98
1:W:248:LYS:HB3	1:W:511:ARG:HH11	1.28	0.98
1:I:58:ASP:O	1:I:59:VAL:HG12	1.62	0.98
1:M:248:LYS:HB3	1:M:511:ARG:HH11	1.28	0.98
1:O:158:TRP:HB3	1:O:173:CYS:HA	1.46	0.98
1:V:15:PHE:HZ	1:V:283:CYS:HG	1.12	0.98
1:D:58:ASP:O	1:D:59:VAL:HG12	1.62	0.97
2:Y:46:VAL:HG11	2:Y:77:ALA:HB1	1.45	0.97
1:P:158:TRP:HE3	1:P:173:CYS:HG	0.98	0.97
1:U:248:LYS:HB3	1:U:511:ARG:HH11	1.28	0.97
1:R:546:THR:HG23	1:R:547:PRO:HD3	1.44	0.97

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:158:TRP:HE3	1:A:173:CYS:HG	1.00	0.97
1:M:330:ARG:HH21	1:M:409:THR:HG21	1.29	0.97
1:T:248:LYS:HB3	1:T:511:ARG:HH11	1.27	0.97
2:Z:46:VAL:HG11	2:Z:77:ALA:HB1	1.45	0.97
2:Y:53:MET:HE2	2:Y:92:VAL:HG11	1.47	0.97
1:V:158:TRP:HB3	1:V:173:CYS:HA	1.44	0.97
1:F:34:PHE:HZ	1:F:328:ARG:NH2	1.63	0.96
1:N:546:THR:HG23	1:N:547:PRO:HD3	1.45	0.96
1:A:41:TRP:CZ3	1:A:42:ASP:CB	2.49	0.96
1:H:41:TRP:CZ3	1:H:42:ASP:CB	2.48	0.96
1:E:41:TRP:CZ3	1:E:42:ASP:CB	2.48	0.96
1:H:34:PHE:HZ	1:H:328:ARG:NH2	1.63	0.96
2:Y:53:MET:HE1	2:Y:92:VAL:HG12	0.99	0.96
1:M:546:THR:HG23	1:M:547:PRO:HD3	1.47	0.96
1:J:34:PHE:HZ	1:J:328:ARG:NH2	1.63	0.96
1:S:546:THR:HG23	1:S:547:PRO:HD3	1.45	0.96
2:Z:53:MET:HE2	2:Z:92:VAL:CG1	1.94	0.96
1:W:158:TRP:HB3	1:W:173:CYS:HA	1.45	0.96
1:C:41:TRP:CZ3	1:C:42:ASP:CB	2.49	0.96
1:L:41:TRP:CZ3	1:L:42:ASP:CB	2.49	0.96
1:J:41:TRP:CZ3	1:J:42:ASP:CB	2.49	0.96
1:O:248:LYS:HB3	1:O:511:ARG:HH11	1.29	0.96
1:B:41:TRP:CZ3	1:B:42:ASP:CB	2.49	0.96
1:I:34:PHE:HZ	1:I:328:ARG:NH2	1.63	0.96
1:P:158:TRP:HB3	1:P:173:CYS:HA	1.45	0.96
2:Z:34:LEU:O	2:Z:35:THR:HG23	1.66	0.96
1:S:158:TRP:HB3	1:S:173:CYS:HA	1.47	0.96
1:T:330:ARG:HH21	1:T:409:THR:HG21	1.31	0.96
1:E:158:TRP:HE3	1:E:173:CYS:HG	1.00	0.96
1:B:34:PHE:HZ	1:B:328:ARG:NH2	1.63	0.95
1:K:41:TRP:CZ3	1:K:42:ASP:CB	2.49	0.95
1:E:34:PHE:HZ	1:E:328:ARG:NH2	1.63	0.95
1:F:41:TRP:CZ3	1:F:42:ASP:CB	2.49	0.95
1:V:248:LYS:HB3	1:V:511:ARG:HH11	1.29	0.95
1:X:330:ARG:HH21	1:X:409:THR:HG21	1.30	0.95
1:F:158:TRP:HE3	1:F:173:CYS:HG	1.00	0.95
1:G:34:PHE:HZ	1:G:328:ARG:NH2	1.63	0.95
1:O:330:ARG:HH21	1:O:409:THR:HG21	1.31	0.95
1:I:41:TRP:CZ3	1:I:42:ASP:CB	2.49	0.95
2:Z:53:MET:HE2	2:Z:92:VAL:HG11	1.46	0.95
1:X:546:THR:HG23	1:X:547:PRO:HD3	1.46	0.95
1:C:34:PHE:HZ	1:C:328:ARG:NH2	1.63	0.95

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:41:TRP:CZ3	1:D:42:ASP:CB	2.49	0.95
1:G:41:TRP:CZ3	1:G:42:ASP:CB	2.49	0.95
1:X:158:TRP:HB3	1:X:173:CYS:HA	1.48	0.95
1:U:158:TRP:HB3	1:U:173:CYS:HA	1.49	0.95
1:D:34:PHE:HZ	1:D:328:ARG:NH2	1.63	0.94
1:I:158:TRP:HE3	1:I:173:CYS:HG	1.00	0.94
1:K:561:ASP:HB2	1:L:89:ASP:HA	1.46	0.94
1:Q:248:LYS:HB3	1:Q:511:ARG:HH11	1.29	0.94
1:R:560:LEU:HD13	1:X:82:PRO:HD2	1.49	0.94
1:Q:158:TRP:HB3	1:Q:173:CYS:HA	1.49	0.94
1:L:34:PHE:HZ	1:L:328:ARG:NH2	1.63	0.94
1:K:560:LEU:HD22	1:L:82:PRO:HG2	1.49	0.94
2:Y:34:LEU:O	2:Y:35:THR:HG23	1.65	0.94
1:A:89:ASP:HA	1:L:561:ASP:HB2	1.49	0.94
1:P:248:LYS:HB3	1:P:511:ARG:HH11	1.27	0.94
1:S:330:ARG:HH21	1:S:409:THR:HG21	1.30	0.94
1:A:34:PHE:HZ	1:A:328:ARG:NH2	1.63	0.94
1:T:158:TRP:HB3	1:T:173:CYS:HA	1.44	0.94
2:Z:71:ASP:HB2	2:Z:75:PRO:HD2	1.50	0.94
1:G:560:LEU:HD13	1:H:82:PRO:HD2	1.50	0.94
1:E:546:THR:HG23	1:E:547:PRO:HD3	1.50	0.94
1:V:330:ARG:HH21	1:V:409:THR:HG21	1.28	0.94
1:S:158:TRP:HE3	1:S:173:CYS:HG	0.96	0.94
1:D:546:THR:HG23	1:D:547:PRO:HD3	1.50	0.94
1:R:330:ARG:HH21	1:R:409:THR:HG21	1.32	0.94
1:K:34:PHE:HZ	1:K:328:ARG:NH2	1.63	0.94
1:U:546:THR:HG23	1:U:547:PRO:HD3	1.46	0.94
1:Q:561:ASP:HB2	1:R:89:ASP:HA	1.50	0.93
1:G:139:SER:HB3	1:G:455:THR:CG2	1.98	0.93
1:R:158:TRP:HB3	1:R:173:CYS:HA	1.48	0.93
1:M:158:TRP:HB3	1:M:173:CYS:HA	1.50	0.93
1:P:546:THR:HG23	1:P:547:PRO:HD3	1.46	0.93
1:P:330:ARG:HH21	1:P:409:THR:HG21	1.32	0.93
1:I:139:SER:HB3	1:I:455:THR:CG2	1.98	0.93
1:C:546:THR:HG23	1:C:547:PRO:HD3	1.50	0.93
1:N:158:TRP:HB3	1:N:173:CYS:HA	1.48	0.93
1:M:560:LEU:HD13	1:O:82:PRO:HD2	1.50	0.93
2:Z:28:VAL:HG21	2:Z:96:LEU:HB3	1.49	0.93
1:C:139:SER:HB3	1:C:455:THR:CG2	1.98	0.93
1:F:546:THR:HG23	1:F:547:PRO:HD3	1.50	0.93
1:J:158:TRP:HE3	1:J:173:CYS:HG	1.01	0.93
1:L:139:SER:HB3	1:L:455:THR:CG2	1.98	0.93

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:139:SER:HB3	1:F:455:THR:CG2	1.98	0.93
1:F:14:ARG:NE	1:F:14:ARG:HA	1.83	0.93
1:N:248:LYS:HB3	1:N:511:ARG:HH11	1.30	0.93
1:H:158:TRP:HE3	1:H:173:CYS:HG	1.00	0.93
1:N:15:PHE:HZ	1:N:283:CYS:HG	1.07	0.93
1:U:330:ARG:HH21	1:U:409:THR:HG21	1.29	0.93
1:W:330:ARG:HH21	1:W:409:THR:HG21	1.32	0.93
2:Y:78:GLU:HA	2:Y:78:GLU:OE1	1.69	0.93
2:Y:71:ASP:HB2	2:Y:75:PRO:HD2	1.50	0.93
1:B:546:THR:HG23	1:B:547:PRO:HD3	1.50	0.93
1:E:139:SER:HB3	1:E:455:THR:CG2	1.98	0.92
1:N:158:TRP:HE3	1:N:173:CYS:HG	0.92	0.92
1:A:139:SER:HB3	1:A:455:THR:CG2	1.98	0.92
1:H:139:SER:HB3	1:H:455:THR:CG2	1.98	0.92
1:Q:330:ARG:HH21	1:Q:409:THR:HG21	1.31	0.92
2:Z:78:GLU:HA	2:Z:78:GLU:OE1	1.69	0.92
1:B:139:SER:HB3	1:B:455:THR:CG2	1.98	0.92
2:Y:34:LEU:O	2:Y:35:THR:CG2	2.17	0.92
1:N:330:ARG:HH21	1:N:409:THR:HG21	1.33	0.92
1:G:546:THR:HG23	1:G:547:PRO:HD3	1.50	0.92
1:B:158:TRP:HE3	1:B:173:CYS:HG	1.00	0.92
1:H:14:ARG:HA	1:H:14:ARG:NE	1.83	0.92
1:W:158:TRP:HE3	1:W:173:CYS:HG	0.94	0.92
1:J:139:SER:HB3	1:J:455:THR:CG2	1.98	0.92
1:D:139:SER:HB3	1:D:455:THR:CG2	1.98	0.92
1:N:89:ASP:HA	1:V:561:ASP:HB2	1.48	0.92
1:A:14:ARG:NE	1:A:14:ARG:HA	1.83	0.92
2:Y:31:ASP:OD2	2:Y:93:PHE:CE2	2.22	0.92
1:A:546:THR:HG23	1:A:547:PRO:HD3	1.50	0.92
1:T:158:TRP:HE3	1:T:173:CYS:HG	0.96	0.91
1:W:144:ILE:HG12	1:W:447:TYR:HE1	1.35	0.91
1:G:14:ARG:NE	1:G:14:ARG:HA	1.83	0.91
2:Y:28:VAL:HG21	2:Y:96:LEU:HB3	1.49	0.91
1:K:139:SER:HB3	1:K:455:THR:CG2	1.98	0.91
2:Z:31:ASP:OD2	2:Z:93:PHE:CE2	2.22	0.91
2:Z:34:LEU:O	2:Z:35:THR:CG2	2.17	0.91
1:U:158:TRP:HE3	1:U:173:CYS:HG	0.93	0.91
1:R:158:TRP:HE3	1:R:173:CYS:HG	0.95	0.91
1:D:14:ARG:NE	1:D:14:ARG:HA	1.83	0.91
1:X:158:TRP:HE3	1:X:173:CYS:HG	0.93	0.91
1:H:546:THR:HG23	1:H:547:PRO:HD3	1.50	0.91
1:O:46:SER:H	1:O:48:TYR:HE2	1.19	0.91

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:46:SER:H	1:N:48:TYR:HE2	1.19	0.91
1:P:144:ILE:HG12	1:P:447:TYR:HE1	1.35	0.91
2:Z:53:MET:CE	2:Z:92:VAL:HG11	2.00	0.91
1:L:546:THR:HG23	1:L:547:PRO:HD3	1.50	0.91
1:X:46:SER:H	1:X:48:TYR:HE2	1.19	0.91
2:Z:32:ALA:C	2:Z:33:THR:HG23	1.91	0.91
1:O:158:TRP:HE3	1:O:173:CYS:HG	0.94	0.90
1:W:173:CYS:SG	1:W:298:ILE:HD12	2.12	0.90
2:Y:32:ALA:C	2:Y:33:THR:HG23	1.91	0.90
1:S:46:SER:H	1:S:48:TYR:HE2	1.19	0.90
1:X:15:PHE:HZ	1:X:283:CYS:HG	1.14	0.90
1:V:144:ILE:HG12	1:V:447:TYR:HE1	1.34	0.90
1:I:546:THR:HG23	1:I:547:PRO:HD3	1.50	0.90
1:M:144:ILE:HG12	1:M:447:TYR:HE1	1.34	0.90
2:Y:53:MET:CE	2:Y:92:VAL:HG11	2.00	0.90
1:K:546:THR:HG23	1:K:547:PRO:HD3	1.50	0.90
1:N:144:ILE:HG12	1:N:447:TYR:HE1	1.34	0.90
1:V:46:SER:H	1:V:48:TYR:HE2	1.16	0.90
1:J:546:THR:HG23	1:J:547:PRO:HD3	1.50	0.90
1:N:229:LYS:HA	1:N:272:LYS:HA	1.52	0.89
1:C:560:LEU:HD13	1:E:82:PRO:HD2	1.53	0.89
1:K:14:ARG:NE	1:K:14:ARG:HA	1.83	0.89
1:Q:144:ILE:HG12	1:Q:447:TYR:HE1	1.35	0.89
1:U:144:ILE:HG12	1:U:447:TYR:HE1	1.38	0.89
1:E:94:LEU:HA	1:E:97:MSE:HE2	1.55	0.89
1:J:560:LEU:HD22	1:K:82:PRO:HG2	1.52	0.89
1:C:14:ARG:NE	1:C:14:ARG:HA	1.83	0.89
1:I:14:ARG:HA	1:I:14:ARG:NE	1.83	0.89
1:B:94:LEU:HA	1:B:97:MSE:HE2	1.55	0.89
1:D:94:LEU:HA	1:D:97:MSE:HE2	1.55	0.89
1:K:94:LEU:HA	1:K:97:MSE:HE2	1.55	0.89
1:T:46:SER:H	1:T:48:TYR:HE2	1.18	0.89
1:C:94:LEU:HA	1:C:97:MSE:HE2	1.55	0.89
1:F:41:TRP:HE3	1:F:42:ASP:N	1.70	0.89
1:O:144:ILE:HG12	1:O:447:TYR:HE1	1.36	0.89
1:R:165:MSE:HG3	1:R:307:TRP:CE3	2.08	0.89
1:C:41:TRP:CE3	1:C:42:ASP:HB2	2.09	0.89
1:G:94:LEU:HA	1:G:97:MSE:HE2	1.55	0.89
1:R:144:ILE:HG12	1:R:447:TYR:HE1	1.36	0.89
1:T:165:MSE:HG3	1:T:307:TRP:CE3	2.07	0.89
1:B:564:GLY:HA2	1:C:554:LEU:HD21	1.53	0.89
1:I:560:LEU:HD13	1:J:82:PRO:HD2	1.53	0.88

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:273:ARG:HH22	1:W:453:LEU:HD11	1.38	0.88
1:A:94:LEU:HA	1:A:97:MSE:HE2	1.55	0.88
1:J:561:ASP:HB2	1:K:89:ASP:HA	1.52	0.88
1:M:46:SER:H	1:M:48:TYR:HE2	1.19	0.88
1:K:25:ALA:O	1:K:29:ALA:HB3	1.74	0.88
2:Y:53:MET:HE2	2:Y:92:VAL:CG1	1.96	0.88
1:B:41:TRP:CE3	1:B:42:ASP:HB2	2.09	0.88
1:I:94:LEU:HA	1:I:97:MSE:HE2	1.55	0.88
1:V:158:TRP:HE3	1:V:173:CYS:HG	0.93	0.88
1:Q:229:LYS:HA	1:Q:272:LYS:HA	1.55	0.88
1:R:14:ARG:HA	1:R:14:ARG:NE	1.87	0.88
1:R:46:SER:H	1:R:48:TYR:HE2	1.20	0.88
1:S:144:ILE:HG12	1:S:447:TYR:HE1	1.36	0.88
1:Q:158:TRP:HE3	1:Q:173:CYS:HG	0.92	0.88
1:C:25:ALA:O	1:C:29:ALA:HB3	1.74	0.88
1:E:41:TRP:CE3	1:E:42:ASP:HB2	2.09	0.88
1:I:41:TRP:HE3	1:I:42:ASP:N	1.70	0.88
2:Z:28:VAL:HG21	2:Z:96:LEU:HD12	1.54	0.88
1:D:41:TRP:CE3	1:D:42:ASP:HB2	2.09	0.88
1:H:94:LEU:HA	1:H:97:MSE:HE2	1.55	0.88
1:L:25:ALA:O	1:L:29:ALA:HB3	1.74	0.88
1:J:14:ARG:HA	1:J:14:ARG:NE	1.83	0.88
1:M:158:TRP:HE3	1:M:173:CYS:HG	0.93	0.88
1:P:229:LYS:HA	1:P:272:LYS:HA	1.55	0.88
1:Q:46:SER:H	1:Q:48:TYR:HE2	1.18	0.88
1:W:165:MSE:HG3	1:W:307:TRP:CE3	2.08	0.88
1:B:14:ARG:HA	1:B:14:ARG:NE	1.83	0.88
1:V:173:CYS:SG	1:V:298:ILE:HD12	2.13	0.88
1:L:41:TRP:HE3	1:L:42:ASP:N	1.70	0.88
2:Z:23:LEU:HA	2:Z:26:LEU:HG	1.55	0.88
1:G:41:TRP:CE3	1:G:42:ASP:HB2	2.09	0.87
1:I:37:ARG:HH21	1:I:37:ARG:HB3	1.39	0.87
1:J:25:ALA:O	1:J:29:ALA:HB3	1.74	0.87
1:S:165:MSE:HG3	1:S:307:TRP:CE3	2.09	0.87
1:A:37:ARG:HB3	1:A:37:ARG:HH21	1.40	0.87
1:D:41:TRP:HE3	1:D:42:ASP:N	1.70	0.87
1:E:25:ALA:O	1:E:29:ALA:HB3	1.74	0.87
1:F:25:ALA:O	1:F:29:ALA:HB3	1.74	0.87
1:L:41:TRP:CE3	1:L:42:ASP:HB2	2.09	0.87
1:F:94:LEU:HA	1:F:97:MSE:HE2	1.55	0.87
1:J:94:LEU:HA	1:J:97:MSE:HE2	1.55	0.87
1:L:94:LEU:HA	1:L:97:MSE:HE2	1.55	0.87

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:144:ILE:HG12	1:T:447:TYR:HE1	1.37	0.87
1:T:229:LYS:HA	1:T:272:LYS:HA	1.56	0.87
1:A:41:TRP:CE3	1:A:42:ASP:HB2	2.09	0.87
1:D:82:PRO:HG2	1:E:560:LEU:HD22	1.57	0.87
1:H:25:ALA:O	1:H:29:ALA:HB3	1.74	0.87
1:J:41:TRP:HE3	1:J:42:ASP:N	1.70	0.87
2:Y:28:VAL:HG21	2:Y:96:LEU:HD12	1.55	0.87
1:W:229:LYS:HA	1:W:272:LYS:HA	1.56	0.87
1:V:229:LYS:HA	1:V:272:LYS:HA	1.55	0.87
1:B:25:ALA:O	1:B:29:ALA:HB3	1.74	0.87
1:A:560:LEU:HD13	1:B:82:PRO:HD2	1.54	0.87
1:G:25:ALA:O	1:G:29:ALA:HB3	1.74	0.87
1:L:14:ARG:HA	1:L:14:ARG:NE	1.83	0.87
1:B:40:GLN:O	1:B:41:TRP:HB2	1.75	0.87
1:E:41:TRP:HE3	1:E:42:ASP:N	1.70	0.87
1:G:37:ARG:HH21	1:G:37:ARG:HB3	1.39	0.87
1:H:41:TRP:CE3	1:H:42:ASP:HB2	2.09	0.87
1:I:40:GLN:O	1:I:41:TRP:HB2	1.75	0.87
1:K:41:TRP:CE3	1:K:42:ASP:HB2	2.09	0.87
1:V:165:MSE:HG3	1:V:307:TRP:CE3	2.10	0.87
1:F:37:ARG:HH21	1:F:37:ARG:HB3	1.40	0.87
1:A:25:ALA:O	1:A:29:ALA:HB3	1.74	0.87
1:F:41:TRP:CE3	1:F:42:ASP:HB2	2.09	0.87
1:E:14:ARG:NE	1:E:14:ARG:HA	1.83	0.87
1:B:37:ARG:HB3	1:B:37:ARG:HH21	1.40	0.87
1:O:165:MSE:HG3	1:O:307:TRP:CE3	2.10	0.87
1:P:46:SER:H	1:P:48:TYR:HE2	1.18	0.87
1:S:173:CYS:SG	1:S:298:ILE:HD12	2.15	0.87
1:Q:173:CYS:SG	1:Q:298:ILE:HD12	2.14	0.87
1:F:40:GLN:O	1:F:41:TRP:HB2	1.75	0.86
1:M:165:MSE:HG3	1:M:307:TRP:CE3	2.10	0.86
1:V:14:ARG:HA	1:V:14:ARG:NE	1.87	0.86
1:N:14:ARG:NE	1:N:14:ARG:HA	1.87	0.86
1:N:173:CYS:SG	1:N:298:ILE:HD12	2.14	0.86
1:Q:273:ARG:HH22	1:Q:453:LEU:HD11	1.39	0.86
1:D:25:ALA:O	1:D:29:ALA:HB3	1.74	0.86
1:D:89:ASP:HA	1:E:561:ASP:HB2	1.56	0.86
1:E:37:ARG:HH21	1:E:37:ARG:HB3	1.39	0.86
1:W:46:SER:H	1:W:48:TYR:HE2	1.18	0.86
1:R:229:LYS:HA	1:R:272:LYS:HA	1.55	0.86
1:I:25:ALA:O	1:I:29:ALA:HB3	1.74	0.86
1:S:15:PHE:HZ	1:S:283:CYS:HG	1.16	0.86

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:41:TRP:CE3	1:I:42:ASP:HB2	2.09	0.86
1:S:273:ARG:HH22	1:S:453:LEU:HD11	1.39	0.86
1:C:37:ARG:HH21	1:C:37:ARG:HB3	1.39	0.86
1:U:165:MSE:HG3	1:U:307:TRP:CE3	2.10	0.86
1:J:236:GLN:HB2	1:J:265:LYS:HZ3	1.40	0.86
1:O:273:ARG:HH22	1:O:453:LEU:HD11	1.40	0.86
1:U:46:SER:H	1:U:48:TYR:HE2	1.20	0.86
1:V:273:ARG:HH22	1:V:453:LEU:HD11	1.40	0.86
1:A:41:TRP:HE3	1:A:42:ASP:N	1.70	0.86
1:J:41:TRP:CE3	1:J:42:ASP:HB2	2.09	0.86
1:M:14:ARG:NE	1:M:14:ARG:HA	1.87	0.86
1:U:14:ARG:HA	1:U:14:ARG:NE	1.87	0.86
1:M:273:ARG:HH22	1:M:453:LEU:HD11	1.40	0.86
1:O:173:CYS:SG	1:O:298:ILE:HD12	2.15	0.86
1:X:273:ARG:HH22	1:X:453:LEU:HD11	1.40	0.86
2:Y:23:LEU:HA	2:Y:26:LEU:HG	1.55	0.86
1:G:41:TRP:HE3	1:G:42:ASP:N	1.70	0.86
1:H:41:TRP:HE3	1:H:42:ASP:N	1.70	0.86
2:Y:28:VAL:CG2	2:Y:96:LEU:CD1	2.53	0.86
1:X:248:LYS:CB	1:X:511:ARG:HH11	1.89	0.86
1:G:40:GLN:O	1:G:41:TRP:HB2	1.75	0.86
1:K:236:GLN:HB2	1:K:265:LYS:HZ3	1.40	0.86
1:G:236:GLN:HB2	1:G:265:LYS:HZ3	1.40	0.86
1:H:40:GLN:O	1:H:41:TRP:HB2	1.75	0.86
1:A:564:GLY:HA2	1:B:554:LEU:HD21	1.56	0.86
1:L:40:GLN:O	1:L:41:TRP:HB2	1.75	0.85
1:B:236:GLN:HB2	1:B:265:LYS:HZ3	1.40	0.85
1:U:229:LYS:HA	1:U:272:LYS:HA	1.56	0.85
2:Z:28:VAL:CG2	2:Z:96:LEU:CD1	2.53	0.85
1:R:173:CYS:SG	1:R:298:ILE:HD12	2.16	0.85
1:M:229:LYS:HA	1:M:272:LYS:HA	1.56	0.85
1:O:229:LYS:HA	1:O:272:LYS:HA	1.56	0.85
1:V:89:ASP:HA	1:W:561:ASP:HB2	1.57	0.85
1:S:14:ARG:NE	1:S:14:ARG:HA	1.86	0.85
1:T:15:PHE:HZ	1:T:283:CYS:HG	1.23	0.85
1:S:229:LYS:HA	1:S:272:LYS:HA	1.57	0.85
2:Z:28:VAL:HG13	2:Z:97:ALA:CB	2.06	0.85
1:P:173:CYS:SG	1:P:298:ILE:HD12	2.15	0.85
1:O:14:ARG:HA	1:O:14:ARG:NE	1.88	0.85
1:X:165:MSE:HG3	1:X:307:TRP:CE3	2.11	0.85
1:R:158:TRP:HE3	1:R:173:CYS:SG	2.00	0.85
1:T:273:ARG:HH22	1:T:453:LEU:HD11	1.40	0.85

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:273:ARG:HH22	1:P:453:LEU:HD11	1.41	0.85
1:E:40:GLN:O	1:E:41:TRP:HB2	1.75	0.85
1:G:158:TRP:HE3	1:G:173:CYS:SG	2.00	0.85
1:P:165:MSE:HG3	1:P:307:TRP:CE3	2.12	0.85
1:S:82:PRO:HD2	1:U:560:LEU:HD13	1.58	0.85
1:R:248:LYS:CB	1:R:511:ARG:HH11	1.89	0.85
1:U:273:ARG:HH22	1:U:453:LEU:HD11	1.37	0.85
1:C:158:TRP:HE3	1:C:173:CYS:SG	2.00	0.85
1:H:158:TRP:HE3	1:H:173:CYS:SG	2.00	0.85
1:D:236:GLN:HB2	1:D:265:LYS:HZ3	1.42	0.85
1:A:158:TRP:HE3	1:A:173:CYS:SG	2.00	0.85
1:K:40:GLN:O	1:K:41:TRP:HB2	1.75	0.85
1:K:41:TRP:HE3	1:K:42:ASP:N	1.70	0.85
1:U:173:CYS:SG	1:U:298:ILE:HD12	2.17	0.85
2:Y:28:VAL:HG13	2:Y:97:ALA:CB	2.07	0.85
1:N:165:MSE:HG3	1:N:307:TRP:CE3	2.11	0.85
2:Z:34:LEU:HD12	2:Z:104:TYR:CD2	2.11	0.85
1:B:560:LEU:HD13	1:C:82:PRO:HD2	1.59	0.85
1:X:229:LYS:HA	1:X:272:LYS:HA	1.56	0.85
1:H:236:GLN:HB2	1:H:265:LYS:HZ3	1.40	0.85
1:B:158:TRP:HE3	1:B:173:CYS:SG	2.00	0.85
1:D:37:ARG:HB3	1:D:37:ARG:HH21	1.40	0.85
1:S:560:LEU:HD13	1:T:82:PRO:HD2	1.59	0.85
1:R:273:ARG:HH22	1:R:453:LEU:HD11	1.40	0.85
1:J:158:TRP:HE3	1:J:173:CYS:SG	2.00	0.84
1:J:37:ARG:HH21	1:J:37:ARG:HB3	1.40	0.84
1:I:564:GLY:HA2	1:J:554:LEU:HD21	1.59	0.84
1:A:40:GLN:O	1:A:41:TRP:HB2	1.75	0.84
1:L:37:ARG:HB3	1:L:37:ARG:HH21	1.40	0.84
1:Q:165:MSE:HG3	1:Q:307:TRP:CE3	2.11	0.84
1:S:248:LYS:CB	1:S:511:ARG:HH11	1.90	0.84
1:W:158:TRP:HE3	1:W:173:CYS:SG	1.99	0.84
1:Q:158:TRP:HE3	1:Q:173:CYS:SG	1.99	0.84
1:H:37:ARG:HH21	1:H:37:ARG:HB3	1.40	0.84
2:Z:28:VAL:CG2	2:Z:96:LEU:HD13	2.07	0.84
1:B:41:TRP:HE3	1:B:42:ASP:N	1.70	0.84
1:K:158:TRP:HE3	1:K:173:CYS:SG	2.00	0.84
1:L:158:TRP:HE3	1:L:173:CYS:SG	2.00	0.84
1:X:173:CYS:SG	1:X:298:ILE:HD12	2.16	0.84
1:A:212:LEU:HD22	1:B:26:ARG:HG2	1.60	0.84
1:F:158:TRP:HE3	1:F:173:CYS:SG	2.00	0.84
1:S:158:TRP:HE3	1:S:173:CYS:SG	2.00	0.84

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:Y:34:LEU:HD12	2:Y:104:TYR:CD2	2.11	0.84
1:V:330:ARG:HD2	1:V:409:THR:HG22	1.58	0.84
1:D:158:TRP:HE3	1:D:173:CYS:SG	2.00	0.84
1:X:144:ILE:HG12	1:X:447:TYR:HE1	1.39	0.84
1:A:236:GLN:HB2	1:A:265:LYS:HZ3	1.41	0.84
1:A:41:TRP:CE3	1:A:42:ASP:CB	2.61	0.84
1:C:40:GLN:O	1:C:41:TRP:HB2	1.75	0.84
1:F:41:TRP:CE3	1:F:42:ASP:CB	2.61	0.84
1:N:273:ARG:HH22	1:N:453:LEU:HD11	1.41	0.84
1:E:41:TRP:CE3	1:E:42:ASP:CB	2.61	0.84
2:Y:28:VAL:HG13	2:Y:97:ALA:N	1.92	0.84
1:B:41:TRP:CE3	1:B:42:ASP:CB	2.61	0.84
1:I:158:TRP:HE3	1:I:173:CYS:SG	2.00	0.84
1:I:41:TRP:CE3	1:I:42:ASP:CB	2.61	0.84
1:J:40:GLN:O	1:J:41:TRP:HB2	1.75	0.84
1:L:41:TRP:CE3	1:L:42:ASP:CB	2.61	0.84
1:T:14:ARG:NE	1:T:14:ARG:HA	1.87	0.84
1:V:158:TRP:HE3	1:V:173:CYS:SG	2.00	0.84
2:Z:28:VAL:HG13	2:Z:97:ALA:N	1.91	0.84
1:W:14:ARG:HA	1:W:14:ARG:NE	1.88	0.84
1:T:330:ARG:HD2	1:T:409:THR:HG22	1.60	0.84
1:J:41:TRP:CE3	1:J:42:ASP:CB	2.61	0.83
1:K:37:ARG:HH21	1:K:37:ARG:HB3	1.40	0.83
1:K:41:TRP:CE3	1:K:42:ASP:CB	2.61	0.83
1:T:561:ASP:HB2	1:W:89:ASP:HA	1.59	0.83
1:D:40:GLN:O	1:D:41:TRP:HB2	1.75	0.83
1:E:158:TRP:HE3	1:E:173:CYS:SG	2.00	0.83
1:H:41:TRP:CE3	1:H:42:ASP:CB	2.61	0.83
1:T:173:CYS:SG	1:T:298:ILE:HD12	2.18	0.83
1:N:158:TRP:HE3	1:N:173:CYS:SG	2.00	0.83
1:I:236:GLN:HB2	1:I:265:LYS:HZ3	1.41	0.83
1:D:41:TRP:CE3	1:D:42:ASP:CB	2.61	0.83
1:M:82:PRO:HD2	1:N:560:LEU:HD13	1.60	0.83
1:X:14:ARG:HA	1:X:14:ARG:NE	1.87	0.83
1:U:15:PHE:HZ	1:U:283:CYS:HG	1.23	0.83
1:X:158:TRP:HE3	1:X:173:CYS:SG	2.00	0.83
1:X:330:ARG:HD2	1:X:409:THR:HG22	1.61	0.83
1:Q:14:ARG:NE	1:Q:14:ARG:HA	1.88	0.83
1:O:248:LYS:CB	1:O:511:ARG:HH11	1.92	0.83
1:G:41:TRP:CE3	1:G:42:ASP:CB	2.61	0.83
1:M:330:ARG:HD2	1:M:409:THR:HG22	1.61	0.83
1:O:330:ARG:HD2	1:O:409:THR:HG22	1.60	0.83

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:330:ARG:HD2	1:W:409:THR:HG22	1.61	0.83
1:P:158:TRP:HE3	1:P:173:CYS:SG	2.00	0.83
2:Y:28:VAL:HG12	2:Y:97:ALA:HA	1.59	0.83
1:A:139:SER:CB	1:A:455:THR:HG23	2.09	0.83
1:T:158:TRP:HE3	1:T:173:CYS:SG	2.01	0.83
1:H:139:SER:CB	1:H:455:THR:HG23	2.09	0.83
1:K:139:SER:CB	1:K:455:THR:HG23	2.09	0.83
1:B:139:SER:CB	1:B:455:THR:HG23	2.09	0.83
1:O:158:TRP:HE3	1:O:173:CYS:SG	2.01	0.83
1:U:158:TRP:HE3	1:U:173:CYS:SG	2.00	0.83
1:C:236:GLN:HB2	1:C:265:LYS:HZ3	1.42	0.83
1:M:158:TRP:HE3	1:M:173:CYS:SG	2.02	0.82
1:N:228:LYS:HA	1:N:228:LYS:HE2	1.61	0.82
1:C:41:TRP:HE3	1:C:42:ASP:N	1.70	0.82
1:Q:560:LEU:HD22	1:R:82:PRO:HG2	1.60	0.82
1:J:139:SER:CB	1:J:455:THR:HG23	2.09	0.82
2:Y:28:VAL:CG2	2:Y:96:LEU:HD13	2.07	0.82
1:T:35:PHE:HE2	1:T:324:LYS:HZ3	1.26	0.82
1:P:14:ARG:HA	1:P:14:ARG:NE	1.88	0.82
1:M:248:LYS:CB	1:M:511:ARG:HH11	1.92	0.82
1:U:248:LYS:CB	1:U:511:ARG:HH11	1.91	0.82
1:R:330:ARG:HD2	1:R:409:THR:HG22	1.62	0.82
1:E:236:GLN:HB2	1:E:265:LYS:HZ3	1.43	0.82
1:B:325:ASP:OD2	2:Y:145:SER:HB3	1.79	0.82
1:P:248:LYS:CB	1:P:511:ARG:HH11	1.91	0.82
1:C:139:SER:CB	1:C:455:THR:HG23	2.09	0.82
1:F:236:GLN:HB2	1:F:265:LYS:HZ3	1.45	0.82
1:T:248:LYS:CB	1:T:511:ARG:HH11	1.91	0.82
1:C:41:TRP:CE3	1:C:42:ASP:CB	2.61	0.82
1:F:139:SER:CB	1:F:455:THR:HG23	2.09	0.82
1:M:173:CYS:SG	1:M:298:ILE:HD12	2.18	0.82
1:S:554:LEU:HD21	1:U:564:GLY:HA2	1.61	0.82
1:L:139:SER:CB	1:L:455:THR:HG23	2.09	0.82
1:H:560:LEU:HD22	1:I:82:PRO:HG2	1.60	0.82
1:R:11:ILE:HD12	1:R:285:ALA:HA	1.62	0.81
2:Z:28:VAL:HG12	2:Z:97:ALA:HA	1.59	0.81
1:G:139:SER:CB	1:G:455:THR:HG23	2.09	0.81
1:I:139:SER:CB	1:I:455:THR:HG23	2.09	0.81
1:L:236:GLN:HB2	1:L:265:LYS:HZ3	1.44	0.81
1:E:139:SER:CB	1:E:455:THR:HG23	2.09	0.81
1:Q:248:LYS:CB	1:Q:511:ARG:HH11	1.93	0.81
1:S:330:ARG:HD2	1:S:409:THR:HG22	1.60	0.81

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:248:LYS:CB	1:N:511:ARG:HH11	1.94	0.81
1:I:212:LEU:HD22	1:J:26:ARG:HG2	1.62	0.81
1:R:208:VAL:HG12	1:R:210:PRO:HD3	1.63	0.81
1:N:208:VAL:HG12	1:N:210:PRO:HD3	1.63	0.81
2:Z:28:VAL:HG13	2:Z:97:ALA:HB2	1.63	0.81
1:D:139:SER:CB	1:D:455:THR:HG23	2.09	0.81
1:Q:228:LYS:HA	1:Q:228:LYS:HE2	1.62	0.81
1:D:560:LEU:HD22	1:F:82:PRO:HG2	1.62	0.81
1:F:560:LEU:HD22	1:G:82:PRO:HG2	1.60	0.81
1:Q:15:PHE:HZ	1:Q:283:CYS:HG	1.27	0.81
1:R:228:LYS:HA	1:R:228:LYS:HE2	1.63	0.81
1:Q:208:VAL:HG12	1:Q:210:PRO:HD3	1.63	0.81
1:O:560:LEU:HD13	1:P:82:PRO:HD2	1.61	0.81
1:V:63:VAL:HG21	1:V:416:ALA:HB1	1.63	0.81
1:W:208:VAL:HG12	1:W:210:PRO:HD3	1.62	0.81
1:U:330:ARG:HD2	1:U:409:THR:HG22	1.63	0.81
1:X:208:VAL:HG12	1:X:210:PRO:HD3	1.63	0.81
1:U:228:LYS:HA	1:U:228:LYS:HE2	1.63	0.81
1:X:228:LYS:HE2	1:X:228:LYS:HA	1.63	0.81
1:P:376:ARG:O	1:P:383:ASP:HB3	1.81	0.81
1:V:208:VAL:HG12	1:V:210:PRO:HD3	1.63	0.81
1:V:228:LYS:HE2	1:V:228:LYS:HA	1.62	0.81
1:K:35:PHE:HE2	1:K:324:LYS:HZ3	1.28	0.80
2:Y:28:VAL:CG1	2:Y:97:ALA:N	2.44	0.80
1:S:63:VAL:HG21	1:S:416:ALA:HB1	1.63	0.80
1:C:564:GLY:HA2	1:E:554:LEU:HD21	1.62	0.80
1:W:248:LYS:CB	1:W:511:ARG:HH11	1.92	0.80
1:M:228:LYS:HE2	1:M:228:LYS:HA	1.62	0.80
1:W:228:LYS:HE2	1:W:228:LYS:HA	1.63	0.80
1:S:564:GLY:HA2	1:T:554:LEU:HD21	1.64	0.80
1:Q:63:VAL:HG21	1:Q:416:ALA:HB1	1.61	0.80
1:C:58:ASP:O	1:C:59:VAL:CG1	2.30	0.80
1:S:228:LYS:HE2	1:S:228:LYS:HA	1.64	0.80
1:Q:11:ILE:HD12	1:Q:285:ALA:HA	1.64	0.80
1:W:303:VAL:HA	1:W:439:ASN:OD1	1.82	0.80
1:Q:330:ARG:HD2	1:Q:409:THR:HG22	1.64	0.80
1:U:35:PHE:HE2	1:U:324:LYS:HZ3	1.28	0.80
1:C:15:PHE:HZ	1:C:283:CYS:HG	1.27	0.80
1:F:561:ASP:HB2	1:G:89:ASP:HA	1.63	0.80
1:M:24:GLU:C	1:M:26:ARG:H	1.85	0.80
1:G:282:THR:HG23	1:G:287:LEU:HD11	1.64	0.80
1:M:208:VAL:HG12	1:M:210:PRO:HD3	1.63	0.80

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:282:THR:HG23	1:E:287:LEU:HD11	1.64	0.80
1:I:58:ASP:O	1:I:59:VAL:CG1	2.30	0.80
1:T:228:LYS:HE2	1:T:228:LYS:HA	1.63	0.80
1:F:282:THR:HG23	1:F:287:LEU:HD11	1.64	0.80
1:T:208:VAL:HG12	1:T:210:PRO:HD3	1.63	0.80
1:A:82:PRO:HG2	1:L:560:LEU:HD22	1.62	0.80
1:J:58:ASP:O	1:J:59:VAL:CG1	2.30	0.80
1:H:561:ASP:HB2	1:I:89:ASP:HA	1.62	0.79
1:B:282:THR:HG23	1:B:287:LEU:HD11	1.64	0.79
1:I:282:THR:HG23	1:I:287:LEU:HD11	1.64	0.79
1:P:208:VAL:HG12	1:P:210:PRO:HD3	1.63	0.79
1:V:303:VAL:HA	1:V:439:ASN:OD1	1.81	0.79
1:S:208:VAL:HG12	1:S:210:PRO:HD3	1.63	0.79
1:N:303:VAL:HA	1:N:439:ASN:OD1	1.82	0.79
1:A:282:THR:HG23	1:A:287:LEU:HD11	1.64	0.79
1:U:11:ILE:HD12	1:U:285:ALA:HA	1.64	0.79
1:D:58:ASP:O	1:D:59:VAL:CG1	2.30	0.79
1:F:58:ASP:O	1:F:59:VAL:CG1	2.30	0.79
1:N:11:ILE:HD12	1:N:285:ALA:HA	1.63	0.79
1:S:11:ILE:HD12	1:S:285:ALA:HA	1.64	0.79
1:C:282:THR:HG23	1:C:287:LEU:HD11	1.64	0.79
1:D:282:THR:HG23	1:D:287:LEU:HD11	1.64	0.79
1:G:58:ASP:O	1:G:59:VAL:CG1	2.30	0.79
1:E:58:ASP:O	1:E:59:VAL:CG1	2.30	0.79
1:O:63:VAL:HG21	1:O:416:ALA:HB1	1.64	0.79
1:H:282:THR:HG23	1:H:287:LEU:HD11	1.64	0.79
1:V:11:ILE:HD12	1:V:285:ALA:HA	1.63	0.79
2:Y:28:VAL:HG13	2:Y:97:ALA:HB2	1.63	0.79
1:V:248:LYS:CB	1:V:511:ARG:HH11	1.94	0.79
1:J:248:LYS:H	1:J:248:LYS:HD2	1.48	0.79
1:O:228:LYS:HA	1:O:228:LYS:HE2	1.63	0.79
1:E:248:LYS:HD2	1:E:248:LYS:H	1.48	0.79
1:O:208:VAL:HG12	1:O:210:PRO:HD3	1.63	0.79
1:Q:35:PHE:HE2	1:Q:324:LYS:HZ3	1.27	0.79
1:A:58:ASP:O	1:A:59:VAL:CG1	2.30	0.79
1:P:63:VAL:HG21	1:P:416:ALA:HB1	1.63	0.79
1:N:248:LYS:HD2	1:N:248:LYS:H	1.47	0.79
1:W:63:VAL:HG21	1:W:416:ALA:HB1	1.64	0.79
1:N:330:ARG:HD2	1:N:409:THR:HG22	1.65	0.79
1:X:11:ILE:HD12	1:X:285:ALA:HA	1.65	0.79
1:D:248:LYS:H	1:D:248:LYS:HD2	1.48	0.79
1:L:248:LYS:HD2	1:L:248:LYS:H	1.48	0.79

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:24:GLU:C	1:R:26:ARG:H	1.85	0.79
1:O:334:MSE:SE	1:P:404:MSE:HE1	2.32	0.79
1:P:228:LYS:HA	1:P:228:LYS:HE2	1.64	0.79
1:K:248:LYS:HD2	1:K:248:LYS:H	1.48	0.79
1:G:564:GLY:HA2	1:H:554:LEU:HD21	1.64	0.79
1:W:376:ARG:O	1:W:383:ASP:HB3	1.83	0.79
1:W:11:ILE:HD12	1:W:285:ALA:HA	1.63	0.79
1:P:35:PHE:HE2	1:P:324:LYS:HZ3	1.31	0.79
1:H:58:ASP:O	1:H:59:VAL:CG1	2.30	0.79
1:P:303:VAL:HA	1:P:439:ASN:OD1	1.83	0.79
2:Z:143:THR:HB	2:Z:154:GLU:H	1.48	0.79
1:L:282:THR:HG23	1:L:287:LEU:HD11	1.64	0.79
1:B:212:LEU:HD22	1:C:26:ARG:HG2	1.65	0.79
1:T:303:VAL:HA	1:T:439:ASN:OD1	1.83	0.79
1:V:35:PHE:HE2	1:V:324:LYS:HZ3	1.30	0.79
1:K:58:ASP:O	1:K:59:VAL:CG1	2.30	0.79
1:M:63:VAL:HG21	1:M:416:ALA:HB1	1.64	0.79
1:C:248:LYS:HD2	1:C:248:LYS:H	1.48	0.78
1:P:11:ILE:HD12	1:P:285:ALA:HA	1.64	0.78
1:U:208:VAL:HG12	1:U:210:PRO:HD3	1.62	0.78
1:X:24:GLU:C	1:X:26:ARG:H	1.85	0.78
1:Q:561:ASP:OD2	1:R:92:ASP:HB3	1.81	0.78
1:M:554:LEU:HD21	1:N:564:GLY:HA2	1.63	0.78
1:P:144:ILE:HG12	1:P:447:TYR:CE1	2.19	0.78
1:Q:303:VAL:HA	1:Q:439:ASN:OD1	1.83	0.78
1:B:248:LYS:HD2	1:B:248:LYS:H	1.48	0.78
1:Q:236:GLN:HB2	1:Q:265:LYS:HG2	1.65	0.78
1:N:376:ARG:O	1:N:383:ASP:HB3	1.84	0.78
1:N:24:GLU:C	1:N:26:ARG:H	1.85	0.78
1:V:144:ILE:HG12	1:V:447:TYR:CE1	2.18	0.78
1:O:35:PHE:HE2	1:O:324:LYS:HZ3	1.27	0.78
2:Z:28:VAL:CG1	2:Z:97:ALA:N	2.44	0.78
1:D:334:MSE:HE1	1:F:407:ALA:HB1	1.63	0.78
1:J:35:PHE:CZ	1:J:321:ARG:NE	2.52	0.78
1:O:24:GLU:C	1:O:26:ARG:H	1.86	0.78
1:T:63:VAL:HG21	1:T:416:ALA:HB1	1.65	0.78
1:N:63:VAL:HG21	1:N:416:ALA:HB1	1.65	0.78
1:A:248:LYS:H	1:A:248:LYS:HD2	1.48	0.78
1:T:11:ILE:HD12	1:T:285:ALA:HA	1.62	0.78
1:J:282:THR:HG23	1:J:287:LEU:HD11	1.64	0.78
2:Y:28:VAL:CG2	2:Y:96:LEU:HB3	2.14	0.78
1:S:24:GLU:C	1:S:26:ARG:H	1.86	0.78

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:303:VAL:HA	1:S:439:ASN:OD1	1.84	0.78
1:W:236:GLN:HB2	1:W:265:LYS:HG2	1.66	0.78
1:W:24:GLU:C	1:W:26:ARG:H	1.85	0.78
1:L:58:ASP:O	1:L:59:VAL:CG1	2.30	0.78
1:I:248:LYS:H	1:I:248:LYS:HD2	1.48	0.78
1:O:236:GLN:HB2	1:O:265:LYS:HG2	1.66	0.78
1:A:35:PHE:CZ	1:A:321:ARG:NE	2.52	0.78
1:C:35:PHE:CZ	1:C:321:ARG:NE	2.52	0.78
1:D:561:ASP:HB2	1:F:89:ASP:HA	1.64	0.78
1:M:11:ILE:HD12	1:M:285:ALA:HA	1.64	0.78
1:B:58:ASP:O	1:B:59:VAL:CG1	2.30	0.78
1:A:334:MSE:HE1	1:B:407:ALA:HB1	1.64	0.78
1:B:35:PHE:CZ	1:B:321:ARG:NE	2.52	0.78
1:H:35:PHE:CZ	1:H:321:ARG:NE	2.52	0.78
1:K:35:PHE:CZ	1:K:321:ARG:NE	2.52	0.78
1:M:144:ILE:HG12	1:M:447:TYR:CE1	2.19	0.78
1:N:35:PHE:HE2	1:N:324:LYS:HZ3	1.30	0.78
1:V:82:PRO:HG2	1:W:560:LEU:HD22	1.66	0.78
1:R:303:VAL:HA	1:R:439:ASN:OD1	1.83	0.78
1:R:236:GLN:HB2	1:R:265:LYS:HG2	1.66	0.78
1:V:376:ARG:O	1:V:383:ASP:HB3	1.84	0.78
1:D:35:PHE:CZ	1:D:321:ARG:NE	2.52	0.77
1:O:303:VAL:HA	1:O:439:ASN:OD1	1.83	0.77
1:K:282:THR:HG23	1:K:287:LEU:HD11	1.64	0.77
1:M:236:GLN:HB2	1:M:265:LYS:HG2	1.67	0.77
1:F:11:ILE:HD12	1:F:285:ALA:HA	1.66	0.77
1:I:35:PHE:CZ	1:I:321:ARG:NE	2.52	0.77
2:Z:28:VAL:CG2	2:Z:96:LEU:HB3	2.14	0.77
1:X:35:PHE:HE2	1:X:324:LYS:HZ3	1.30	0.77
1:O:564:GLY:HA2	1:P:554:LEU:HD21	1.65	0.77
1:G:35:PHE:CZ	1:G:321:ARG:NE	2.52	0.77
1:W:248:LYS:HD2	1:W:248:LYS:H	1.48	0.77
1:X:303:VAL:HA	1:X:439:ASN:OD1	1.83	0.77
1:M:303:VAL:HA	1:M:439:ASN:OD1	1.85	0.77
1:P:236:GLN:HB2	1:P:265:LYS:HG2	1.66	0.77
2:Y:143:THR:HB	2:Y:154:GLU:H	1.48	0.77
1:N:236:GLN:HB2	1:N:265:LYS:HG2	1.65	0.77
1:E:35:PHE:CZ	1:E:321:ARG:NE	2.52	0.77
1:I:334:MSE:HE1	1:J:407:ALA:HB1	1.66	0.77
1:N:144:ILE:HG12	1:N:447:TYR:CE1	2.19	0.77
1:V:236:GLN:HB2	1:V:265:LYS:HG2	1.67	0.77
1:R:376:ARG:O	1:R:383:ASP:HB3	1.84	0.77

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:182:ASN:ND2	1:B:171:ARG:HH21	1.81	0.77
1:G:11:ILE:HD12	1:G:285:ALA:HA	1.66	0.77
1:H:11:ILE:HD12	1:H:285:ALA:HA	1.66	0.77
1:L:35:PHE:CZ	1:L:321:ARG:NE	2.52	0.77
1:T:24:GLU:C	1:T:26:ARG:H	1.86	0.77
1:X:37:ARG:NH2	1:X:37:ARG:HB3	2.00	0.77
2:Y:78:GLU:CG	2:Y:79:GLY:H	1.98	0.77
1:O:376:ARG:O	1:O:383:ASP:HB3	1.84	0.77
1:Q:376:ARG:O	1:Q:383:ASP:HB3	1.84	0.77
1:D:11:ILE:HD12	1:D:285:ALA:HA	1.66	0.77
1:L:11:ILE:HD12	1:L:285:ALA:HA	1.66	0.77
1:R:35:PHE:HE2	1:R:324:LYS:HZ3	1.30	0.77
1:R:144:ILE:HG12	1:R:447:TYR:CE1	2.20	0.77
1:H:15:PHE:HZ	1:H:283:CYS:HG	1.27	0.77
1:Q:144:ILE:HG12	1:Q:447:TYR:CE1	2.20	0.77
1:W:35:PHE:HE2	1:W:324:LYS:HZ3	1.31	0.77
1:B:11:ILE:HD12	1:B:285:ALA:HA	1.66	0.77
1:U:63:VAL:HG21	1:U:416:ALA:HB1	1.65	0.77
1:E:273:ARG:HH22	1:E:453:LEU:HD21	1.50	0.77
1:F:248:LYS:HD2	1:F:248:LYS:H	1.48	0.77
1:M:35:PHE:HE2	1:M:324:LYS:HZ3	1.30	0.77
1:O:248:LYS:H	1:O:248:LYS:HD2	1.50	0.77
1:Q:334:MSE:SE	1:R:404:MSE:HE1	2.35	0.77
1:H:248:LYS:HD2	1:H:248:LYS:H	1.48	0.77
1:F:35:PHE:CZ	1:F:321:ARG:NE	2.52	0.77
1:N:82:PRO:HG2	1:V:560:LEU:HD22	1.66	0.77
1:T:376:ARG:O	1:T:383:ASP:HB3	1.82	0.77
1:O:144:ILE:HG12	1:O:447:TYR:CE1	2.20	0.76
1:U:24:GLU:C	1:U:26:ARG:H	1.86	0.76
1:X:34:PHE:HZ	1:X:328:ARG:NH2	1.83	0.76
1:M:248:LYS:HD2	1:M:248:LYS:H	1.50	0.76
1:G:248:LYS:HD2	1:G:248:LYS:H	1.48	0.76
1:H:273:ARG:HH22	1:H:453:LEU:HD21	1.50	0.76
1:I:273:ARG:HH22	1:I:453:LEU:HD21	1.50	0.76
1:F:273:ARG:HH22	1:F:453:LEU:HD21	1.50	0.76
1:K:11:ILE:HD12	1:K:285:ALA:HA	1.66	0.76
1:K:273:ARG:HH22	1:K:453:LEU:HD21	1.50	0.76
1:U:236:GLN:HB2	1:U:265:LYS:HG2	1.66	0.76
1:A:35:PHE:HE2	1:A:324:LYS:HZ3	1.33	0.76
1:Q:24:GLU:C	1:Q:26:ARG:H	1.87	0.76
1:G:273:ARG:HH22	1:G:453:LEU:HD21	1.50	0.76
1:A:273:ARG:HH22	1:A:453:LEU:HD21	1.50	0.76

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:236:GLN:HB2	1:T:265:LYS:HG2	1.66	0.76
1:A:11:ILE:HD12	1:A:285:ALA:HA	1.66	0.76
1:V:24:GLU:C	1:V:26:ARG:H	1.87	0.76
1:C:11:ILE:HD12	1:C:285:ALA:HA	1.66	0.76
1:O:34:PHE:HZ	1:O:328:ARG:NH2	1.83	0.76
1:P:560:LEU:HD22	1:Q:82:PRO:HG2	1.66	0.76
1:V:248:LYS:HD2	1:V:248:LYS:H	1.50	0.76
1:P:24:GLU:C	1:P:26:ARG:H	1.87	0.76
1:X:376:ARG:O	1:X:383:ASP:HB3	1.84	0.76
1:O:35:PHE:CZ	1:O:321:ARG:NE	2.54	0.76
1:U:303:VAL:HA	1:U:439:ASN:OD1	1.84	0.76
2:Z:78:GLU:CG	2:Z:79:GLY:H	1.98	0.76
1:P:44:TRP:O	1:P:45:LEU:HD13	1.86	0.76
1:Q:44:TRP:O	1:Q:45:LEU:HD13	1.86	0.76
1:U:248:LYS:H	1:U:248:LYS:HD2	1.49	0.76
1:X:63:VAL:HG21	1:X:416:ALA:HB1	1.65	0.76
1:O:11:ILE:HD12	1:O:285:ALA:HA	1.67	0.76
1:S:236:GLN:HB2	1:S:265:LYS:HG2	1.66	0.76
1:G:49:THR:HG22	1:G:49:THR:O	1.86	0.76
1:I:11:ILE:HD12	1:I:285:ALA:HA	1.66	0.76
1:M:35:PHE:CZ	1:M:321:ARG:NE	2.54	0.76
1:D:273:ARG:HH22	1:D:453:LEU:HD21	1.50	0.76
1:U:376:ARG:O	1:U:383:ASP:HB3	1.84	0.76
1:V:139:SER:HB3	1:V:455:THR:HG23	1.67	0.76
1:Q:35:PHE:CZ	1:Q:321:ARG:NE	2.54	0.76
1:T:34:PHE:HZ	1:T:328:ARG:NH2	1.84	0.76
1:T:248:LYS:HD2	1:T:248:LYS:H	1.50	0.76
1:S:35:PHE:CZ	1:S:321:ARG:NE	2.54	0.75
1:S:144:ILE:HG12	1:S:447:TYR:CE1	2.20	0.75
1:V:92:ASP:HB3	1:W:561:ASP:OD2	1.86	0.75
1:S:376:ARG:O	1:S:383:ASP:HB3	1.84	0.75
1:F:15:PHE:HZ	1:F:283:CYS:HG	1.33	0.75
1:S:35:PHE:HE2	1:S:324:LYS:HZ3	1.32	0.75
1:U:93:VAL:HG11	1:U:458:ARG:HG3	1.68	0.75
1:W:511:ARG:HA	1:W:513:ARG:HD2	1.68	0.75
1:J:273:ARG:HH22	1:J:453:LEU:HD21	1.50	0.75
1:U:282:THR:HG23	1:U:287:LEU:HD11	1.69	0.75
1:P:35:PHE:CZ	1:P:321:ARG:NE	2.55	0.75
2:Y:78:GLU:HG3	2:Y:79:GLY:H	1.52	0.75
1:Q:248:LYS:H	1:Q:248:LYS:HD2	1.49	0.75
1:R:63:VAL:HG21	1:R:416:ALA:HB1	1.66	0.75
1:P:282:THR:HG23	1:P:287:LEU:HD11	1.68	0.75

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:93:VAL:HG11	1:X:458:ARG:HG3	1.69	0.75
1:E:11:ILE:HD12	1:E:285:ALA:HA	1.66	0.75
1:F:49:THR:O	1:F:49:THR:HG22	1.86	0.75
1:J:11:ILE:HD12	1:J:285:ALA:HA	1.66	0.75
1:X:34:PHE:CZ	1:X:328:ARG:NH2	2.55	0.75
1:X:282:THR:HG23	1:X:287:LEU:HD11	1.69	0.75
1:P:232:ALA:HB2	1:P:269:ARG:H	1.51	0.75
1:E:49:THR:O	1:E:49:THR:HG22	1.86	0.75
1:X:236:GLN:HB2	1:X:265:LYS:HG2	1.66	0.75
1:E:5:GLU:HG2	1:E:6:ASN:H	1.52	0.75
1:D:49:THR:O	1:D:49:THR:HG22	1.86	0.75
1:T:44:TRP:O	1:T:45:LEU:HD13	1.87	0.75
1:W:144:ILE:HG12	1:W:447:TYR:CE1	2.20	0.75
1:T:511:ARG:HA	1:T:513:ARG:HD2	1.68	0.75
1:L:273:ARG:HH22	1:L:453:LEU:HD21	1.50	0.75
1:N:232:ALA:HB2	1:N:269:ARG:H	1.51	0.75
1:P:561:ASP:HB2	1:Q:89:ASP:HA	1.67	0.75
2:Z:34:LEU:HD12	2:Z:104:TYR:HD2	1.51	0.75
1:C:273:ARG:HH22	1:C:453:LEU:HD21	1.50	0.75
1:D:5:GLU:HG2	1:D:6:ASN:H	1.52	0.75
1:M:232:ALA:HB2	1:M:269:ARG:H	1.51	0.75
1:M:44:TRP:O	1:M:45:LEU:HD13	1.86	0.75
1:S:44:TRP:O	1:S:45:LEU:HD13	1.86	0.75
1:S:248:LYS:HD2	1:S:248:LYS:H	1.49	0.75
1:F:236:GLN:HB2	1:F:265:LYS:HG2	1.68	0.75
1:P:34:PHE:HZ	1:P:328:ARG:NH2	1.84	0.75
1:K:236:GLN:HB2	1:K:265:LYS:HG2	1.68	0.75
1:G:273:ARG:HH22	1:G:453:LEU:CD2	2.00	0.75
1:A:5:GLU:HG2	1:A:6:ASN:H	1.52	0.75
1:K:15:PHE:HZ	1:K:283:CYS:HG	1.33	0.74
1:N:93:VAL:HG11	1:N:458:ARG:HG3	1.68	0.74
1:X:330:ARG:HH21	1:X:409:THR:CG2	2.00	0.74
1:Q:511:ARG:HA	1:Q:513:ARG:HD2	1.69	0.74
1:P:330:ARG:HD2	1:P:409:THR:HG22	1.68	0.74
1:F:273:ARG:HH22	1:F:453:LEU:CD2	2.00	0.74
1:N:282:THR:HG23	1:N:287:LEU:HD11	1.67	0.74
1:A:78:VAL:CG2	1:A:444:LEU:HD11	2.15	0.74
1:M:34:PHE:HZ	1:M:328:ARG:NH2	1.84	0.74
1:R:93:VAL:HG11	1:R:458:ARG:HG3	1.69	0.74
1:S:93:VAL:HG11	1:S:458:ARG:HG3	1.68	0.74
1:T:34:PHE:CZ	1:T:328:ARG:NH2	2.56	0.74
1:D:236:GLN:HB2	1:D:265:LYS:HG2	1.68	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:5:GLU:HG2	1:G:6:ASN:H	1.52	0.74
1:C:49:THR:O	1:C:49:THR:HG22	1.86	0.74
1:F:34:PHE:CZ	1:F:328:ARG:NH2	2.47	0.74
1:J:49:THR:HG22	1:J:49:THR:O	1.86	0.74
1:M:37:ARG:NH2	1:M:37:ARG:HB3	2.03	0.74
1:B:273:ARG:HH22	1:B:453:LEU:CD2	2.00	0.74
1:E:273:ARG:HH22	1:E:453:LEU:CD2	2.00	0.74
1:I:35:PHE:HE2	1:I:324:LYS:HZ3	1.34	0.74
1:O:34:PHE:CZ	1:O:328:ARG:NH2	2.56	0.74
1:X:248:LYS:HD2	1:X:248:LYS:H	1.51	0.74
1:R:248:LYS:H	1:R:248:LYS:HD2	1.51	0.74
1:H:5:GLU:HG2	1:H:6:ASN:H	1.52	0.74
1:F:564:GLY:HA2	1:G:554:LEU:HD21	1.70	0.74
1:A:560:LEU:HD22	1:B:82:PRO:HG2	1.69	0.74
1:C:212:LEU:HD22	1:E:26:ARG:HG2	1.70	0.74
1:K:49:THR:O	1:K:49:THR:HG22	1.86	0.74
1:K:273:ARG:HH22	1:K:453:LEU:CD2	2.00	0.74
1:A:273:ARG:HH22	1:A:453:LEU:CD2	2.00	0.74
1:L:577:ILE:HG12	1:L:582:LYS:HG2	1.69	0.74
1:W:282:THR:HG23	1:W:287:LEU:HD11	1.69	0.74
1:R:282:THR:HG23	1:R:287:LEU:HD11	1.69	0.74
1:E:577:ILE:HG12	1:E:582:LYS:HG2	1.69	0.74
1:O:93:VAL:HG11	1:O:458:ARG:HG3	1.68	0.74
2:Z:78:GLU:CA	2:Z:78:GLU:OE1	2.36	0.74
1:R:34:PHE:HZ	1:R:328:ARG:NH2	1.85	0.74
1:T:144:ILE:HG12	1:T:447:TYR:CE1	2.21	0.74
1:U:34:PHE:HZ	1:U:328:ARG:NH2	1.85	0.74
1:U:144:ILE:HG12	1:U:447:TYR:CE1	2.21	0.74
1:V:44:TRP:O	1:V:45:LEU:HD13	1.88	0.74
1:U:330:ARG:HH21	1:U:409:THR:CG2	2.01	0.74
1:H:273:ARG:HH22	1:H:453:LEU:CD2	2.00	0.74
1:A:236:GLN:HB2	1:A:265:LYS:HG2	1.68	0.74
1:R:139:SER:HB3	1:R:455:THR:HG23	1.69	0.74
1:K:577:ILE:HG12	1:K:582:LYS:HG2	1.69	0.74
1:M:282:THR:HG23	1:M:287:LEU:HD11	1.69	0.74
1:L:49:THR:HG22	1:L:49:THR:O	1.86	0.74
1:N:35:PHE:HE1	1:N:321:ARG:HH11	1.36	0.74
1:P:93:VAL:HG11	1:P:458:ARG:HG3	1.69	0.74
1:Q:93:VAL:HG11	1:Q:458:ARG:HG3	1.69	0.74
1:S:35:PHE:HE1	1:S:321:ARG:HH11	1.36	0.74
1:X:35:PHE:CZ	1:X:321:ARG:NE	2.55	0.74
1:G:236:GLN:HB2	1:G:265:LYS:HG2	1.68	0.74

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:236:GLN:HB2	1:B:265:LYS:HG2	1.68	0.74
1:H:564:GLY:HA2	1:I:554:LEU:HD21	1.69	0.74
1:A:577:ILE:HG12	1:A:582:LYS:HG2	1.69	0.74
1:W:232:ALA:HB2	1:W:269:ARG:H	1.53	0.74
1:J:577:ILE:HG12	1:J:582:LYS:HG2	1.69	0.74
1:M:35:PHE:HE1	1:M:321:ARG:HH11	1.35	0.74
1:O:44:TRP:O	1:O:45:LEU:HD13	1.88	0.74
1:L:78:VAL:CG2	1:L:444:LEU:HD11	2.15	0.74
1:N:34:PHE:HZ	1:N:328:ARG:NH2	1.86	0.74
1:Q:34:PHE:HZ	1:Q:328:ARG:NH2	1.86	0.74
1:R:34:PHE:CZ	1:R:328:ARG:NH2	2.56	0.74
1:B:273:ARG:HH22	1:B:453:LEU:HD21	1.50	0.74
1:H:236:GLN:HB2	1:H:265:LYS:HG2	1.68	0.74
1:L:236:GLN:HB2	1:L:265:LYS:HG2	1.69	0.74
1:L:273:ARG:HH22	1:L:453:LEU:CD2	2.00	0.74
1:B:577:ILE:HG12	1:B:582:LYS:HG2	1.69	0.74
1:L:5:GLU:HG2	1:L:6:ASN:H	1.52	0.74
1:G:560:LEU:HD22	1:H:82:PRO:HG2	1.69	0.74
1:T:34:PHE:HZ	1:T:328:ARG:HH22	1.35	0.74
1:U:35:PHE:CZ	1:U:321:ARG:NE	2.55	0.74
1:W:44:TRP:O	1:W:45:LEU:HD13	1.87	0.74
1:P:248:LYS:H	1:P:248:LYS:HD2	1.51	0.74
1:V:330:ARG:HH21	1:V:409:THR:CG2	2.00	0.74
1:I:273:ARG:HH22	1:I:453:LEU:CD2	2.00	0.74
1:C:236:GLN:HB2	1:C:265:LYS:HG2	1.68	0.74
1:E:236:GLN:HB2	1:E:265:LYS:HG2	1.68	0.74
1:M:93:VAL:HG11	1:M:458:ARG:HG3	1.68	0.74
1:O:35:PHE:HE1	1:O:321:ARG:HH11	1.36	0.74
1:P:34:PHE:CZ	1:P:328:ARG:NH2	2.56	0.74
1:S:37:ARG:HB3	1:S:37:ARG:NH2	2.03	0.74
1:A:554:LEU:HD21	1:L:564:GLY:HA2	1.70	0.74
1:H:49:THR:O	1:H:49:THR:HG22	1.86	0.73
1:J:35:PHE:HE2	1:J:324:LYS:HZ3	1.34	0.73
1:T:35:PHE:CZ	1:T:321:ARG:NE	2.56	0.73
1:M:139:SER:HB3	1:M:455:THR:HG23	1.70	0.73
1:S:282:THR:HG23	1:S:287:LEU:HD11	1.70	0.73
1:F:78:VAL:CG2	1:F:444:LEU:HD11	2.15	0.73
1:G:34:PHE:CZ	1:G:328:ARG:NH2	2.48	0.73
1:I:560:LEU:HD22	1:J:82:PRO:HG2	1.70	0.73
1:M:34:PHE:HZ	1:M:328:ARG:HH22	1.36	0.73
1:N:136:SER:HB3	1:Q:325:ASP:OD2	87.72	0.73
1:R:35:PHE:CZ	1:R:321:ARG:NE	2.56	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:136:SER:HB3	1:V:325:ASP:OD2	87.87	0.73
1:V:34:PHE:CZ	1:V:328:ARG:NH2	2.57	0.73
1:V:93:VAL:HG11	1:V:458:ARG:HG3	1.69	0.73
1:C:5:GLU:HG2	1:C:6:ASN:H	1.52	0.73
1:K:5:GLU:HG2	1:K:6:ASN:H	1.52	0.73
1:A:74:ASN:CB	1:A:75:PRO:HD3	4.11	0.73
1:J:273:ARG:HH22	1:J:453:LEU:CD2	2.00	0.73
1:W:93:VAL:HG11	1:W:458:ARG:HG3	1.68	0.73
1:C:577:ILE:HG12	1:C:582:LYS:HG2	1.69	0.73
1:B:49:THR:O	1:B:49:THR:HG22	1.86	0.73
1:S:34:PHE:HZ	1:S:328:ARG:NH2	1.85	0.73
1:N:92:ASP:HB3	1:V:561:ASP:OD2	1.88	0.73
1:X:144:ILE:HG12	1:X:447:TYR:CE1	2.22	0.73
1:M:15:PHE:HZ	1:M:283:CYS:HG	1.34	0.73
1:T:560:LEU:HD22	1:W:82:PRO:HG2	1.68	0.73
1:O:282:THR:HG23	1:O:287:LEU:HD11	1.69	0.73
1:M:376:ARG:O	1:M:383:ASP:HB3	1.87	0.73
1:A:49:THR:HG22	1:A:49:THR:O	1.86	0.73
1:G:35:PHE:HE2	1:G:324:LYS:HZ3	1.34	0.73
1:G:74:ASN:CB	1:G:75:PRO:HD3	4.11	0.73
1:I:74:ASN:CB	1:I:75:PRO:HD3	4.11	0.73
1:X:34:PHE:HZ	1:X:328:ARG:HH22	1.35	0.73
2:Y:34:LEU:HD12	2:Y:104:TYR:HD2	1.52	0.73
1:J:236:GLN:HB2	1:J:265:LYS:HG2	1.69	0.73
1:F:577:ILE:HG12	1:F:582:LYS:HG2	1.69	0.73
1:D:44:TRP:O	1:D:45:LEU:HD13	1.89	0.73
1:C:560:LEU:HD22	1:E:82:PRO:HG2	1.69	0.73
1:H:74:ASN:CB	1:H:75:PRO:HD3	4.11	0.73
1:J:74:ASN:CB	1:J:75:PRO:HD3	4.11	0.73
1:L:44:TRP:O	1:L:45:LEU:HD13	1.89	0.73
1:U:89:ASP:HA	1:X:561:ASP:HB2	1.69	0.73
2:Y:34:LEU:C	2:Y:35:THR:HG23	2.09	0.73
1:U:232:ALA:HB2	1:U:269:ARG:H	1.54	0.73
1:I:577:ILE:HG12	1:I:582:LYS:HG2	1.69	0.73
1:S:231:THR:HG21	1:S:249:ARG:HH11	1.53	0.73
1:C:74:ASN:CB	1:C:75:PRO:HD3	4.11	0.73
1:I:49:THR:O	1:I:49:THR:HG22	1.86	0.73
2:Y:78:GLU:OE1	2:Y:78:GLU:CA	2.36	0.73
1:D:273:ARG:HH22	1:D:453:LEU:CD2	2.00	0.73
1:I:236:GLN:HB2	1:I:265:LYS:HG2	1.69	0.73
1:G:577:ILE:HG12	1:G:582:LYS:HG2	1.69	0.73
1:Q:282:THR:HG23	1:Q:287:LEU:HD11	1.71	0.73

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:34:PHE:HZ	1:V:328:ARG:NH2	1.86	0.73
1:T:561:ASP:OD2	1:W:92:ASP:HB3	1.89	0.73
1:R:511:ARG:HA	1:R:513:ARG:HD2	1.70	0.73
1:R:561:ASP:HB2	1:X:89:ASP:HA	1.70	0.73
1:T:232:ALA:HB2	1:T:269:ARG:H	1.54	0.73
1:E:74:ASN:CB	1:E:75:PRO:HD3	4.11	0.73
1:J:334:MSE:HE1	1:K:407:ALA:HB1	1.69	0.73
2:Z:74:ASN:CB	2:Z:75:PRO:HD3	2.18	0.73
1:O:139:SER:HB3	1:O:455:THR:HG23	1.71	0.73
1:J:5:GLU:HG2	1:J:6:ASN:H	1.52	0.73
1:X:44:TRP:O	1:X:45:LEU:HD13	1.88	0.73
1:C:44:TRP:O	1:C:45:LEU:HD13	1.89	0.72
1:G:44:TRP:O	1:G:45:LEU:HD13	1.89	0.72
1:K:44:TRP:O	1:K:45:LEU:HD13	1.89	0.72
2:Z:78:GLU:HG3	2:Z:79:GLY:H	1.52	0.72
1:M:511:ARG:HA	1:M:513:ARG:HD2	1.70	0.72
2:Z:34:LEU:C	2:Z:35:THR:HG23	2.09	0.72
1:Q:139:SER:HB3	1:Q:455:THR:HG23	1.69	0.72
1:R:232:ALA:HB2	1:R:269:ARG:H	1.54	0.72
1:H:577:ILE:HG12	1:H:582:LYS:HG2	1.69	0.72
1:D:577:ILE:HG12	1:D:582:LYS:HG2	1.69	0.72
1:S:232:ALA:HB2	1:S:269:ARG:H	1.53	0.72
1:C:405:LEU:O	1:C:409:THR:HG23	1.90	0.72
1:E:158:TRP:HB3	1:E:173:CYS:HA	1.71	0.72
1:G:158:TRP:HB3	1:G:173:CYS:HA	1.72	0.72
1:I:44:TRP:O	1:I:45:LEU:HD13	1.89	0.72
1:Q:37:ARG:HB3	1:Q:37:ARG:NH2	2.04	0.72
1:U:511:ARG:HA	1:U:513:ARG:HD2	1.71	0.72
1:B:74:ASN:CB	1:B:75:PRO:HD3	4.11	0.72
1:D:158:TRP:HB3	1:D:173:CYS:HA	1.72	0.72
1:E:405:LEU:O	1:E:409:THR:HG23	1.90	0.72
1:F:405:LEU:O	1:F:409:THR:HG23	1.90	0.72
1:M:34:PHE:CZ	1:M:328:ARG:NH2	2.56	0.72
1:V:35:PHE:CZ	1:V:321:ARG:NE	2.58	0.72
1:B:5:GLU:HG2	1:B:6:ASN:H	1.52	0.72
1:B:34:PHE:CZ	1:B:328:ARG:NH2	2.47	0.72
1:D:74:ASN:CB	1:D:75:PRO:HD3	4.11	0.72
1:F:334:MSE:HE1	1:G:407:ALA:HB1	1.71	0.72
1:H:44:TRP:O	1:H:45:LEU:HD13	1.89	0.72
1:R:44:TRP:O	1:R:45:LEU:HD13	1.89	0.72
1:T:93:VAL:HG11	1:T:458:ARG:HG3	1.70	0.72
1:U:34:PHE:CZ	1:U:328:ARG:NH2	2.56	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:554:LEU:HD21	1:X:564:GLY:HA2	1.72	0.72
1:B:44:TRP:O	1:B:45:LEU:HD13	1.89	0.72
1:F:158:TRP:HB3	1:F:173:CYS:HA	1.71	0.72
1:J:44:TRP:O	1:J:45:LEU:HD13	1.89	0.72
1:K:158:TRP:HB3	1:K:173:CYS:HA	1.71	0.72
1:L:34:PHE:CZ	1:L:328:ARG:NH2	2.48	0.72
1:R:37:ARG:NH2	1:R:37:ARG:HB3	2.04	0.72
1:U:44:TRP:O	1:U:45:LEU:HD13	1.89	0.72
1:W:34:PHE:HZ	1:W:328:ARG:NH2	1.85	0.72
1:V:511:ARG:HA	1:V:513:ARG:HD2	1.70	0.72
1:N:511:ARG:HA	1:N:513:ARG:HD2	1.70	0.72
1:F:5:GLU:HG2	1:F:6:ASN:H	1.52	0.72
1:V:232:ALA:HB2	1:V:269:ARG:H	1.54	0.72
1:A:405:LEU:O	1:A:409:THR:HG23	1.90	0.72
1:B:158:TRP:HB3	1:B:173:CYS:HA	1.71	0.72
1:C:325:ASP:OD2	2:Z:145:SER:HB3	1.89	0.72
1:I:158:TRP:HB3	1:I:173:CYS:HA	1.71	0.72
1:M:325:ASP:OD2	1:K:136:SER:HB3	208.06	0.72
1:U:37:ARG:NH2	1:U:37:ARG:HB3	2.04	0.72
2:Y:74:ASN:CB	2:Y:75:PRO:HD3	2.18	0.72
1:K:405:LEU:O	1:K:409:THR:HG23	1.90	0.72
1:A:44:TRP:O	1:A:45:LEU:HD13	1.89	0.72
1:F:44:TRP:O	1:F:45:LEU:HD13	1.89	0.72
1:A:26:ARG:HG2	1:L:212:LEU:HD22	1.71	0.72
1:V:577:ILE:HG12	1:V:582:LYS:HG2	1.72	0.72
1:O:232:ALA:HB2	1:O:269:ARG:H	1.52	0.72
1:A:457:MSE:O	1:A:457:MSE:HG3	1.90	0.72
1:N:34:PHE:HZ	1:N:328:ARG:HH22	1.38	0.72
1:O:330:ARG:HH21	1:O:409:THR:CG2	2.02	0.72
1:C:273:ARG:HH22	1:C:453:LEU:CD2	2.00	0.72
1:I:5:GLU:HG2	1:I:6:ASN:H	1.52	0.72
1:V:282:THR:HG23	1:V:287:LEU:HD11	1.70	0.72
1:G:212:LEU:HD22	1:H:26:ARG:HG2	1.71	0.72
1:J:34:PHE:CZ	1:J:328:ARG:NH2	2.47	0.72
1:O:37:ARG:NH2	1:O:37:ARG:HB3	2.04	0.72
1:N:34:PHE:CZ	1:N:328:ARG:NH2	2.58	0.72
1:S:330:ARG:NH2	1:S:409:THR:HG21	2.05	0.72
1:X:232:ALA:HB2	1:X:269:ARG:H	1.53	0.72
1:D:405:LEU:O	1:D:409:THR:HG23	1.90	0.72
1:C:182:ASN:ND2	1:E:171:ARG:HH21	1.88	0.72
1:L:158:TRP:HB3	1:L:173:CYS:HA	1.71	0.72
1:N:44:TRP:O	1:N:45:LEU:HD13	1.89	0.72

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:34:PHE:HZ	1:W:328:ARG:HH22	1.38	0.72
1:N:139:SER:HB3	1:N:455:THR:HG23	1.70	0.72
1:W:450:GLN:HG2	1:W:450:GLN:O	1.90	0.72
1:Q:232:ALA:HB2	1:Q:269:ARG:H	1.54	0.72
1:R:564:GLY:HA2	1:X:554:LEU:HD21	1.70	0.72
1:A:303:VAL:HA	1:A:439:ASN:ND2	2.05	0.71
1:N:35:PHE:CZ	1:N:321:ARG:NE	2.57	0.71
1:X:35:PHE:HE1	1:X:321:ARG:HH11	1.37	0.71
1:C:246:TYR:HD2	1:C:511:ARG:HB3	1.55	0.71
1:E:246:TYR:HD2	1:E:511:ARG:HB3	1.55	0.71
1:C:334:MSE:HE1	1:E:407:ALA:HB1	1.70	0.71
1:I:78:VAL:CG2	1:I:444:LEU:HD11	2.15	0.71
1:P:78:VAL:HG12	1:P:79:LEU:N	2.05	0.71
1:W:35:PHE:HE1	1:W:321:ARG:HH11	1.37	0.71
1:V:246:TYR:HD2	1:V:511:ARG:HB2	1.54	0.71
1:E:44:TRP:O	1:E:45:LEU:HD13	1.89	0.71
1:G:303:VAL:HA	1:G:439:ASN:ND2	2.05	0.71
1:J:303:VAL:HA	1:J:439:ASN:ND2	2.05	0.71
1:J:405:LEU:O	1:J:409:THR:HG23	1.89	0.71
1:S:139:SER:HB3	1:S:455:THR:HG23	1.73	0.71
1:B:457:MSE:HG3	1:B:457:MSE:O	1.90	0.71
1:C:158:TRP:HB3	1:C:173:CYS:HA	1.71	0.71
1:F:212:LEU:HD22	1:G:26:ARG:HG2	1.72	0.71
1:H:405:LEU:O	1:H:409:THR:HG23	1.90	0.71
1:I:405:LEU:O	1:I:409:THR:HG23	1.90	0.71
1:K:457:MSE:HG3	1:K:457:MSE:O	1.90	0.71
1:P:35:PHE:HE1	1:P:321:ARG:HH11	1.38	0.71
1:Q:34:PHE:CZ	1:Q:328:ARG:NH2	2.57	0.71
1:P:561:ASP:OD2	1:Q:92:ASP:HB3	1.90	0.71
1:S:136:SER:HB3	1:W:325:ASP:OD2	57.15	0.71
1:X:248:LYS:HB3	1:X:511:ARG:NH1	2.02	0.71
1:P:330:ARG:HH21	1:P:409:THR:CG2	2.01	0.71
1:B:246:TYR:HD2	1:B:511:ARG:HB3	1.55	0.71
1:L:303:VAL:HA	1:L:439:ASN:ND2	2.05	0.71
1:W:34:PHE:CZ	1:W:328:ARG:NH2	2.57	0.71
1:M:564:GLY:HA2	1:O:554:LEU:HD21	1.72	0.71
1:M:450:GLN:HG2	1:M:450:GLN:O	1.90	0.71
1:B:405:LEU:O	1:B:409:THR:HG23	1.90	0.71
1:C:35:PHE:HE2	1:C:324:LYS:HZ3	1.39	0.71
1:K:303:VAL:HA	1:K:439:ASN:ND2	2.05	0.71
1:U:82:PRO:HG2	1:X:560:LEU:HD22	1.71	0.71
1:V:37:ARG:HB3	1:V:37:ARG:NH2	2.05	0.71

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:511:ARG:HA	1:S:513:ARG:HD2	1.73	0.71
1:P:246:TYR:HD2	1:P:511:ARG:HB2	1.55	0.71
1:T:577:ILE:HG12	1:T:582:LYS:HG2	1.73	0.71
1:B:78:VAL:CG2	1:B:444:LEU:HD11	2.15	0.71
1:C:303:VAL:HA	1:C:439:ASN:ND2	2.05	0.71
1:D:34:PHE:CZ	1:D:328:ARG:NH2	2.47	0.71
1:D:78:VAL:CG2	1:D:444:LEU:HD11	2.15	0.71
1:K:78:VAL:CG2	1:K:444:LEU:HD11	2.15	0.71
1:W:35:PHE:CZ	1:W:321:ARG:NE	2.59	0.71
1:W:78:VAL:HG12	1:W:79:LEU:N	2.05	0.71
1:O:511:ARG:HA	1:O:513:ARG:HD2	1.71	0.71
1:R:330:ARG:HH21	1:R:409:THR:CG2	2.02	0.71
1:Q:330:ARG:HH21	1:Q:409:THR:CG2	2.02	0.71
1:H:158:TRP:HB3	1:H:173:CYS:HA	1.71	0.71
1:H:303:VAL:HA	1:H:439:ASN:ND2	2.05	0.71
1:H:35:PHE:HE2	1:H:324:LYS:HZ3	1.38	0.71
1:J:158:TRP:HB3	1:J:173:CYS:HA	1.72	0.71
1:K:99:ARG:HH12	1:K:530:GLN:HE21	1.39	0.71
1:O:34:PHE:HZ	1:O:328:ARG:HH22	1.34	0.71
2:Z:46:VAL:CG1	2:Z:77:ALA:HB1	2.19	0.71
1:R:15:PHE:HZ	1:R:283:CYS:HG	1.39	0.71
1:D:246:TYR:HD2	1:D:511:ARG:HB3	1.55	0.71
1:A:108:LYS:HD2	1:B:438:LEU:HD11	1.71	0.71
1:D:564:GLY:HA2	1:F:554:LEU:HD21	1.72	0.71
1:G:405:LEU:O	1:G:409:THR:HG23	1.90	0.71
1:M:330:ARG:NH2	1:M:409:THR:HG21	2.06	0.71
1:S:330:ARG:HH21	1:S:409:THR:CG2	2.01	0.71
1:S:450:GLN:O	1:S:450:GLN:HG2	1.91	0.71
1:U:450:GLN:HG2	1:U:450:GLN:O	1.90	0.71
1:G:561:ASP:HB2	1:H:89:ASP:HA	1.70	0.71
1:H:78:VAL:CG2	1:H:444:LEU:HD11	2.15	0.71
1:S:34:PHE:CZ	1:S:328:ARG:NH2	2.56	0.71
1:T:136:SER:HB3	1:T:325:ASP:OD2	52.59	0.71
1:X:37:ARG:HB3	1:X:37:ARG:HH21	1.56	0.71
1:X:246:TYR:HD2	1:X:511:ARG:HB2	1.56	0.71
1:M:330:ARG:HH21	1:M:409:THR:CG2	2.03	0.71
1:J:246:TYR:HD2	1:J:511:ARG:HB3	1.56	0.71
1:K:246:TYR:HD2	1:K:511:ARG:HB3	1.55	0.71
1:F:246:TYR:HD2	1:F:511:ARG:HB3	1.55	0.71
1:O:113:ILE:HD13	1:O:150:HIS:CE1	2.26	0.71
1:C:99:ARG:HH12	1:C:530:GLN:HE21	1.39	0.70
1:F:303:VAL:HA	1:F:439:ASN:ND2	2.05	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:74:ASN:CB	1:F:75:PRO:HD3	4.11	0.70
1:I:34:PHE:CZ	1:I:328:ARG:NH2	2.48	0.70
1:J:78:VAL:CG2	1:J:444:LEU:HD11	2.15	0.70
1:G:246:TYR:HD2	1:G:511:ARG:HB3	1.55	0.70
1:A:246:TYR:HD2	1:A:511:ARG:HB3	1.55	0.70
1:J:457:MSE:HG3	1:J:457:MSE:O	1.90	0.70
1:E:41:TRP:CZ3	1:E:42:ASP:HB3	2.26	0.70
1:E:303:VAL:HA	1:E:439:ASN:ND2	2.05	0.70
1:I:303:VAL:HA	1:I:439:ASN:ND2	2.05	0.70
1:I:457:MSE:HG3	1:I:457:MSE:O	1.90	0.70
1:I:99:ARG:HH12	1:I:530:GLN:HE21	1.39	0.70
1:K:34:PHE:CZ	1:K:328:ARG:NH2	2.48	0.70
1:P:334:MSE:SE	1:Q:404:MSE:HE1	2.41	0.70
1:L:405:LEU:O	1:L:409:THR:HG23	1.90	0.70
1:T:575:GLN:O	1:T:579:MSE:HG2	1.92	0.70
1:M:238:PRO:HG3	1:M:263:PHE:HB3	1.73	0.70
1:N:113:ILE:HD13	1:N:150:HIS:CE1	2.26	0.70
1:Q:35:PHE:HE1	1:Q:321:ARG:HH11	1.39	0.70
1:T:37:ARG:HB3	1:T:37:ARG:NH2	2.07	0.70
1:U:35:PHE:HE1	1:U:321:ARG:HH11	1.37	0.70
1:O:246:TYR:HD2	1:O:511:ARG:HB2	1.55	0.70
1:V:330:ARG:NH2	1:V:409:THR:HG21	2.04	0.70
1:R:577:ILE:HG12	1:R:582:LYS:HG2	1.73	0.70
1:S:577:ILE:HG12	1:S:582:LYS:HG2	1.71	0.70
1:X:450:GLN:HG2	1:X:450:GLN:O	1.91	0.70
1:T:238:PRO:HG3	1:T:263:PHE:HB3	1.73	0.70
1:B:41:TRP:CZ3	1:B:42:ASP:HB3	2.26	0.70
1:C:78:VAL:CG2	1:C:444:LEU:HD11	2.15	0.70
1:F:34:PHE:HE1	1:F:324:LYS:HZ2	1.39	0.70
1:Q:246:TYR:HD2	1:Q:511:ARG:HB2	1.56	0.70
1:U:330:ARG:NH2	1:U:409:THR:HG21	2.05	0.70
1:N:577:ILE:HG12	1:N:582:LYS:HG2	1.73	0.70
1:R:94:LEU:HA	1:R:97:MSE:HE2	1.74	0.70
1:Q:450:GLN:HG2	1:Q:450:GLN:O	1.92	0.70
1:E:457:MSE:HG3	1:E:457:MSE:O	1.90	0.70
1:A:158:TRP:HB3	1:A:173:CYS:HA	1.72	0.70
1:E:99:ARG:HH12	1:E:530:GLN:HE21	1.39	0.70
1:N:246:TYR:HD2	1:N:511:ARG:HB2	1.56	0.70
1:D:457:MSE:O	1:D:457:MSE:HG3	1.90	0.70
1:F:457:MSE:O	1:F:457:MSE:HG3	1.90	0.70
1:A:26:ARG:HH21	1:A:30:LYS:HB2	1.57	0.70
1:F:41:TRP:CZ3	1:F:42:ASP:HB3	2.26	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:26:ARG:HH21	1:I:30:LYS:HB2	1.57	0.70
1:K:26:ARG:HH21	1:K:30:LYS:HB2	1.57	0.70
1:W:37:ARG:HB3	1:W:37:ARG:NH2	2.07	0.70
1:J:26:ARG:HH21	1:J:30:LYS:HB2	1.57	0.70
1:T:282:THR:HG23	1:T:287:LEU:HD11	1.73	0.70
1:U:577:ILE:HG12	1:U:582:LYS:HG2	1.73	0.70
1:B:99:ARG:HH12	1:B:530:GLN:HE21	1.39	0.70
1:C:41:TRP:CZ3	1:C:42:ASP:HB3	2.26	0.70
1:D:303:VAL:HA	1:D:439:ASN:ND2	2.05	0.70
1:G:26:ARG:HH21	1:G:30:LYS:HB2	1.57	0.70
1:G:334:MSE:HE1	1:H:407:ALA:HB1	1.72	0.70
1:H:26:ARG:HH21	1:H:30:LYS:HB2	1.57	0.70
1:L:99:ARG:HH12	1:L:530:GLN:HE21	1.39	0.70
1:X:577:ILE:HG12	1:X:582:LYS:HG2	1.73	0.70
1:B:303:VAL:HA	1:B:439:ASN:ND2	2.05	0.70
1:G:78:VAL:CG2	1:G:444:LEU:HD11	2.15	0.70
1:H:212:LEU:HD22	1:I:26:ARG:HG2	1.72	0.70
2:Y:46:VAL:CG1	2:Y:77:ALA:HB1	2.19	0.70
1:S:246:TYR:HD2	1:S:511:ARG:HB2	1.56	0.70
1:M:246:TYR:HD2	1:M:511:ARG:HB2	1.56	0.70
1:U:248:LYS:HD3	1:U:251:ILE:HB	1.74	0.70
1:T:330:ARG:HH21	1:T:409:THR:CG2	2.03	0.70
1:P:511:ARG:HA	1:P:513:ARG:HD2	1.72	0.70
1:M:404:MSE:HE1	1:N:334:MSE:SE	2.41	0.70
1:H:246:TYR:HD2	1:H:511:ARG:HB3	1.55	0.70
1:F:26:ARG:HH21	1:F:30:LYS:HB2	1.57	0.70
1:I:35:PHE:C	1:I:37:ARG:H	1.95	0.70
1:O:15:PHE:HZ	1:O:283:CYS:HG	1.39	0.70
1:P:37:ARG:HB3	1:P:37:ARG:NH2	2.06	0.70
1:T:35:PHE:HE1	1:T:321:ARG:HH11	1.37	0.70
1:A:567:MSE:SE	1:B:576:LEU:HD13	2.42	0.70
1:L:246:TYR:HD2	1:L:511:ARG:HB3	1.55	0.70
1:P:238:PRO:HG3	1:P:263:PHE:HB3	1.73	0.70
1:S:384:LEU:HD22	1:S:384:LEU:H	1.57	0.70
1:O:556:TYR:OH	1:P:542:THR:HG21	1.92	0.70
1:L:457:MSE:O	1:L:457:MSE:HG3	1.90	0.70
1:G:457:MSE:O	1:G:457:MSE:HG3	1.90	0.70
1:A:35:PHE:C	1:A:37:ARG:H	1.95	0.70
1:D:99:ARG:HH12	1:D:530:GLN:HE21	1.39	0.70
1:L:26:ARG:HH21	1:L:30:LYS:HB2	1.57	0.70
1:X:511:ARG:HA	1:X:513:ARG:HD2	1.73	0.70
1:W:330:ARG:HH21	1:W:409:THR:CG2	2.05	0.70

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:330:ARG:HH21	1:N:409:THR:CG2	2.03	0.70
1:P:384:LEU:H	1:P:384:LEU:HD22	1.57	0.70
1:B:182:ASN:ND2	1:C:171:ARG:HH21	1.90	0.69
1:G:35:PHE:C	1:G:37:ARG:H	1.95	0.69
1:U:139:SER:HB3	1:U:455:THR:HG23	1.73	0.69
1:X:139:SER:HB3	1:X:455:THR:HG23	1.73	0.69
1:Q:238:PRO:HG3	1:Q:263:PHE:HB3	1.73	0.69
1:F:99:ARG:HH12	1:F:530:GLN:HE21	1.39	0.69
1:J:99:ARG:HH12	1:J:530:GLN:HE21	1.39	0.69
1:U:246:TYR:HD2	1:U:511:ARG:HB2	1.56	0.69
1:O:248:LYS:HD3	1:O:251:ILE:HB	1.74	0.69
1:I:376:ARG:O	1:I:383:ASP:HB3	1.92	0.69
1:G:41:TRP:CZ3	1:G:42:ASP:HB3	2.26	0.69
1:I:182:ASN:ND2	1:J:171:ARG:HH21	1.90	0.69
1:K:35:PHE:C	1:K:37:ARG:H	1.95	0.69
1:L:41:TRP:CZ3	1:L:42:ASP:HB3	2.26	0.69
1:V:78:VAL:HG12	1:V:79:LEU:N	2.07	0.69
1:P:248:LYS:HB3	1:P:511:ARG:NH1	2.04	0.69
1:N:158:TRP:CD1	1:N:158:TRP:N	2.60	0.69
1:H:457:MSE:HG3	1:H:457:MSE:O	1.90	0.69
1:P:113:ILE:HD13	1:P:150:HIS:CE1	2.28	0.69
1:T:113:ILE:HD13	1:T:150:HIS:CE1	2.27	0.69
1:O:238:PRO:HG3	1:O:263:PHE:HB3	1.74	0.69
2:Z:28:VAL:HG21	2:Z:96:LEU:CB	2.22	0.69
1:S:334:MSE:SE	1:T:404:MSE:HE1	2.42	0.69
1:A:376:ARG:O	1:A:383:ASP:HB3	1.93	0.69
1:G:376:ARG:O	1:G:383:ASP:HB3	1.92	0.69
1:P:450:GLN:O	1:P:450:GLN:HG2	1.92	0.69
1:J:376:ARG:O	1:J:383:ASP:HB3	1.92	0.69
1:L:35:PHE:C	1:L:37:ARG:H	1.95	0.69
1:R:248:LYS:HB3	1:R:511:ARG:NH1	2.03	0.69
1:I:246:TYR:HD2	1:I:511:ARG:HB3	1.55	0.69
1:K:376:ARG:O	1:K:383:ASP:HB3	1.93	0.69
1:Q:577:ILE:HG12	1:Q:582:LYS:HG2	1.74	0.69
1:B:26:ARG:HH21	1:B:30:LYS:HB2	1.57	0.69
1:C:26:ARG:HH21	1:C:30:LYS:HB2	1.57	0.69
1:E:35:PHE:C	1:E:37:ARG:H	1.95	0.69
1:F:35:PHE:C	1:F:37:ARG:H	1.95	0.69
1:H:99:ARG:HH12	1:H:530:GLN:HE21	1.39	0.69
1:S:248:LYS:HB3	1:S:511:ARG:NH1	2.04	0.69
1:M:248:LYS:HB3	1:M:511:ARG:NH1	2.05	0.69
2:Y:34:LEU:CD1	2:Y:104:TYR:CD2	2.76	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:457:MSE:HG3	1:C:457:MSE:O	1.90	0.69
1:O:577:ILE:HG12	1:O:582:LYS:HG2	1.74	0.69
1:D:554:LEU:HD21	1:E:564:GLY:HA2	1.75	0.69
1:A:99:ARG:HH12	1:A:530:GLN:HE21	1.39	0.69
1:F:376:ARG:O	1:F:383:ASP:HB3	1.92	0.69
1:B:35:PHE:C	1:B:37:ARG:H	1.95	0.69
1:H:41:TRP:CZ3	1:H:42:ASP:HB3	2.26	0.69
1:L:158:TRP:CD1	1:L:158:TRP:N	2.60	0.69
1:V:35:PHE:HE1	1:V:321:ARG:HH11	1.38	0.69
1:C:554:LEU:HD12	1:C:557:PHE:HD2	1.58	0.69
1:D:26:ARG:HH21	1:D:30:LYS:HB2	1.57	0.69
1:K:212:LEU:HD22	1:L:26:ARG:HG2	1.75	0.69
1:C:561:ASP:HB2	1:E:89:ASP:HA	1.75	0.69
1:E:15:PHE:HZ	1:E:283:CYS:HG	1.40	0.69
2:Y:28:VAL:CG2	2:Y:96:LEU:HD12	2.22	0.69
2:Y:28:VAL:HG21	2:Y:96:LEU:CB	2.22	0.69
1:W:246:TYR:HD2	1:W:511:ARG:HB2	1.57	0.69
1:J:554:LEU:HD12	1:J:557:PHE:HD2	1.58	0.69
1:D:554:LEU:HD12	1:D:557:PHE:HD2	1.58	0.69
1:U:238:PRO:HG3	1:U:263:PHE:HB3	1.74	0.69
1:W:577:ILE:HG12	1:W:582:LYS:HG2	1.74	0.69
1:L:209:PHE:N	1:L:210:PRO:HD3	2.08	0.69
1:B:376:ARG:O	1:B:383:ASP:HB3	1.92	0.69
1:V:384:LEU:HD22	1:V:384:LEU:H	1.57	0.69
1:N:450:GLN:HG2	1:N:450:GLN:O	1.92	0.69
1:P:577:ILE:HG12	1:P:582:LYS:HG2	1.73	0.69
1:S:534:GLU:O	1:S:538:LEU:HD23	1.92	0.69
1:N:37:ARG:NH2	1:N:37:ARG:HB3	2.07	0.69
1:R:246:TYR:HD2	1:R:511:ARG:HB2	1.57	0.69
1:K:593:LEU:O	1:K:597:GLN:HG2	1.93	0.69
1:M:577:ILE:HG12	1:M:582:LYS:HG2	1.74	0.69
1:I:209:PHE:N	1:I:210:PRO:HD3	2.08	0.69
1:D:209:PHE:N	1:D:210:PRO:HD3	2.08	0.69
1:E:78:VAL:CG2	1:E:444:LEU:HD11	2.15	0.69
1:K:41:TRP:CZ3	1:K:42:ASP:HB3	2.26	0.69
1:S:78:VAL:HG12	1:S:79:LEU:N	2.08	0.69
1:T:384:LEU:H	1:T:384:LEU:HD22	1.58	0.69
1:G:209:PHE:N	1:G:210:PRO:HD3	2.08	0.69
1:R:238:PRO:HG3	1:R:263:PHE:HB3	1.73	0.69
1:S:238:PRO:HG3	1:S:263:PHE:HB3	1.75	0.69
1:J:209:PHE:N	1:J:210:PRO:HD3	2.08	0.69
1:H:158:TRP:CD1	1:H:158:TRP:N	2.60	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:41:TRP:CZ3	1:J:42:ASP:HB3	2.26	0.68
1:T:78:VAL:HG12	1:T:79:LEU:N	2.08	0.68
1:S:404:MSE:HE1	1:U:334:MSE:SE	2.43	0.68
1:L:593:LEU:O	1:L:597:GLN:HG2	1.93	0.68
1:W:238:PRO:HG3	1:W:263:PHE:HB3	1.74	0.68
1:H:209:PHE:N	1:H:210:PRO:HD3	2.08	0.68
1:D:376:ARG:O	1:D:383:ASP:HB3	1.92	0.68
1:T:139:SER:HB3	1:T:455:THR:HG23	1.75	0.68
1:G:593:LEU:O	1:G:597:GLN:HG2	1.93	0.68
1:B:158:TRP:N	1:B:158:TRP:CD1	2.60	0.68
1:F:554:LEU:HD12	1:F:557:PHE:HD2	1.58	0.68
1:A:593:LEU:O	1:A:597:GLN:HG2	1.93	0.68
1:T:450:GLN:O	1:T:450:GLN:HG2	1.93	0.68
1:B:593:LEU:O	1:B:597:GLN:HG2	1.93	0.68
1:K:209:PHE:N	1:K:210:PRO:HD3	2.08	0.68
1:B:37:ARG:HB3	1:B:37:ARG:NH2	2.09	0.68
1:D:41:TRP:CZ3	1:D:42:ASP:HB3	2.26	0.68
1:F:158:TRP:CD1	1:F:158:TRP:N	2.60	0.68
1:M:561:ASP:HB2	1:O:89:ASP:HA	1.75	0.68
1:V:78:VAL:CG2	1:V:444:LEU:HD11	2.20	0.68
1:O:330:ARG:NH2	1:O:409:THR:HG21	2.07	0.68
1:H:376:ARG:O	1:H:383:ASP:HB3	1.92	0.68
1:C:376:ARG:O	1:C:383:ASP:HB3	1.92	0.68
1:G:99:ARG:HH12	1:G:530:GLN:HE21	1.39	0.68
1:J:593:LEU:O	1:J:597:GLN:HG2	1.93	0.68
1:N:238:PRO:HG3	1:N:263:PHE:HB3	1.75	0.68
1:C:35:PHE:C	1:C:37:ARG:H	1.95	0.68
1:I:158:TRP:CD1	1:I:158:TRP:N	2.60	0.68
1:J:37:ARG:NH2	1:J:37:ARG:HB3	2.09	0.68
1:Q:78:VAL:HG12	1:Q:79:LEU:N	2.08	0.68
1:R:35:PHE:HE1	1:R:321:ARG:HH11	1.38	0.68
1:M:248:LYS:HD3	1:M:251:ILE:HB	1.74	0.68
1:N:248:LYS:HD3	1:N:251:ILE:HB	1.75	0.68
1:G:554:LEU:HD12	1:G:557:PHE:HD2	1.58	0.68
1:M:113:ILE:HD13	1:M:150:HIS:CE1	2.28	0.68
1:T:534:GLU:O	1:T:538:LEU:HD23	1.94	0.68
1:L:37:ARG:HB3	1:L:37:ARG:NH2	2.09	0.68
1:B:334:MSE:HE1	1:C:407:ALA:HB1	1.75	0.68
1:O:384:LEU:H	1:O:384:LEU:HD22	1.57	0.68
1:A:209:PHE:N	1:A:210:PRO:HD3	2.08	0.68
1:D:593:LEU:O	1:D:597:GLN:HG2	1.93	0.68
1:D:212:LEU:HD22	1:F:26:ARG:HG2	1.75	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:34:PHE:CZ	1:E:328:ARG:NH2	2.47	0.68
1:K:334:MSE:HE1	1:L:407:ALA:HB1	1.73	0.68
1:C:108:LYS:HD2	1:E:438:LEU:HD11	1.76	0.68
1:I:593:LEU:O	1:I:597:GLN:HG2	1.93	0.68
1:J:108:LYS:HD2	1:K:438:LEU:HD11	1.75	0.68
1:Q:575:GLN:O	1:Q:579:MSE:HG2	1.94	0.68
1:P:139:SER:HB3	1:P:455:THR:HG23	1.74	0.68
1:B:158:TRP:CH2	1:B:302:PRO:HG3	2.29	0.68
1:D:35:PHE:C	1:D:37:ARG:H	1.95	0.68
1:J:158:TRP:CH2	1:J:302:PRO:HG3	2.29	0.68
1:K:37:ARG:HB3	1:K:37:ARG:NH2	2.09	0.68
1:R:78:VAL:HG12	1:R:79:LEU:N	2.07	0.68
1:B:351:PHE:CD2	1:B:356:ILE:HD11	2.29	0.68
1:H:225:VAL:HG22	1:H:276:VAL:HG12	1.76	0.68
1:K:108:LYS:HD2	1:L:438:LEU:HD11	1.75	0.68
1:C:34:PHE:CZ	1:C:328:ARG:NH2	2.47	0.68
1:H:158:TRP:CH2	1:H:302:PRO:HG3	2.29	0.68
1:I:41:TRP:CZ3	1:I:42:ASP:HB3	2.26	0.68
1:L:158:TRP:CH2	1:L:302:PRO:HG3	2.29	0.68
1:W:248:LYS:HB3	1:W:511:ARG:NH1	2.05	0.68
1:O:564:GLY:HA3	1:P:535:ILE:HD11	1.76	0.68
1:W:139:SER:HB3	1:W:455:THR:HG23	1.73	0.68
1:I:108:LYS:HD3	1:I:112:ASN:HD21	1.59	0.68
1:E:376:ARG:O	1:E:383:ASP:HB3	1.93	0.68
1:K:158:TRP:N	1:K:158:TRP:CD1	2.60	0.68
2:Z:34:LEU:CD1	2:Z:104:TYR:CD2	2.76	0.68
1:V:450:GLN:O	1:V:450:GLN:HG2	1.92	0.68
1:I:225:VAL:HG22	1:I:276:VAL:HG12	1.76	0.68
1:F:225:VAL:HG22	1:F:276:VAL:HG12	1.76	0.68
1:D:158:TRP:CH2	1:D:302:PRO:HG3	2.29	0.68
1:E:158:TRP:N	1:E:158:TRP:CD1	2.60	0.68
1:E:26:ARG:HH21	1:E:30:LYS:HB2	1.57	0.68
1:M:78:VAL:HG12	1:M:79:LEU:N	2.09	0.68
1:O:136:SER:HB3	1:R:325:ASP:OD2	71.98	0.68
1:P:158:TRP:HB3	1:P:173:CYS:CA	2.24	0.68
1:I:108:LYS:HD2	1:J:438:LEU:HD11	1.76	0.68
1:V:238:PRO:HG3	1:V:263:PHE:HB3	1.75	0.68
1:J:351:PHE:CD2	1:J:356:ILE:HD11	2.29	0.68
1:Q:384:LEU:H	1:Q:384:LEU:HD22	1.59	0.68
1:H:108:LYS:HD3	1:H:112:ASN:HD21	1.59	0.68
1:K:225:VAL:HG22	1:K:276:VAL:HG12	1.76	0.68
1:P:575:GLN:O	1:P:579:MSE:HG2	1.94	0.68

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:158:TRP:CH2	1:F:302:PRO:HG3	2.29	0.67
1:I:237:ASP:H	1:I:243:PRO:HA	1.60	0.67
1:S:209:PHE:CZ	1:S:214:GLN:HG2	2.29	0.67
1:E:209:PHE:N	1:E:210:PRO:HD3	2.08	0.67
1:W:534:GLU:O	1:W:538:LEU:HD23	1.94	0.67
1:F:209:PHE:N	1:F:210:PRO:HD3	2.08	0.67
1:A:585:GLU:C	1:A:587:PRO:HD3	2.15	0.67
1:K:351:PHE:CD2	1:K:356:ILE:HD11	2.29	0.67
1:U:575:GLN:O	1:U:579:MSE:HG2	1.95	0.67
1:X:238:PRO:HG3	1:X:263:PHE:HB3	1.74	0.67
1:F:351:PHE:CD2	1:F:356:ILE:HD11	2.29	0.67
1:K:585:GLU:C	1:K:587:PRO:HD3	2.15	0.67
1:B:35:PHE:HE2	1:B:324:LYS:HZ3	1.41	0.67
1:D:37:ARG:HB3	1:D:37:ARG:NH2	2.09	0.67
1:O:158:TRP:N	1:O:158:TRP:CD1	2.62	0.67
1:T:246:TYR:HD2	1:T:511:ARG:HB2	1.59	0.67
1:V:248:LYS:HD3	1:V:251:ILE:HB	1.75	0.67
1:B:554:LEU:HD12	1:B:557:PHE:HD2	1.58	0.67
1:I:554:LEU:HD12	1:I:557:PHE:HD2	1.58	0.67
1:F:585:GLU:C	1:F:587:PRO:HD3	2.15	0.67
1:I:442:ALA:HB1	3:I:702:HOH:O	1.95	0.67
1:G:191:TYR:HE1	1:G:278:LYS:HZ3	1.41	0.67
1:H:585:GLU:C	1:H:587:PRO:HD3	2.15	0.67
1:I:585:GLU:C	1:I:587:PRO:HD3	2.15	0.67
1:L:351:PHE:CD2	1:L:356:ILE:HD11	2.29	0.67
1:C:593:LEU:O	1:C:597:GLN:HG2	1.93	0.67
1:A:351:PHE:CD2	1:A:356:ILE:HD11	2.29	0.67
1:B:442:ALA:HB1	3:B:702:HOH:O	1.95	0.67
1:C:158:TRP:CH2	1:C:302:PRO:HG3	2.29	0.67
1:I:158:TRP:CH2	1:I:302:PRO:HG3	2.29	0.67
1:R:248:LYS:HD3	1:R:251:ILE:HB	1.76	0.67
1:X:330:ARG:NH2	1:X:409:THR:HG21	2.05	0.67
1:X:158:TRP:CD1	1:X:158:TRP:N	2.62	0.67
1:K:237:ASP:H	1:K:243:PRO:HA	1.59	0.67
1:A:108:LYS:HD3	1:A:112:ASN:HD21	1.59	0.67
1:G:585:GLU:C	1:G:587:PRO:HD3	2.15	0.67
1:X:384:LEU:HD22	1:X:384:LEU:H	1.59	0.67
1:A:442:ALA:HB1	3:A:702:HOH:O	1.95	0.67
1:E:585:GLU:C	1:E:587:PRO:HD3	2.15	0.67
1:D:158:TRP:CD1	1:D:158:TRP:N	2.60	0.67
1:J:158:TRP:N	1:J:158:TRP:CD1	2.60	0.67
1:N:78:VAL:HG12	1:N:79:LEU:N	2.09	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:209:PHE:CZ	1:O:214:GLN:HG2	2.30	0.67
1:H:554:LEU:HD12	1:H:557:PHE:HD2	1.58	0.67
1:O:450:GLN:O	1:O:450:GLN:HG2	1.94	0.67
1:H:593:LEU:O	1:H:597:GLN:HG2	1.93	0.67
1:B:585:GLU:C	1:B:587:PRO:HD3	2.15	0.67
1:E:351:PHE:CD2	1:E:356:ILE:HD11	2.29	0.67
1:L:376:ARG:O	1:L:383:ASP:HB3	1.92	0.67
1:G:225:VAL:HG22	1:G:276:VAL:HG12	1.76	0.67
1:A:158:TRP:CH2	1:A:302:PRO:HG3	2.29	0.67
1:A:41:TRP:CZ3	1:A:42:ASP:HB3	2.26	0.67
1:G:37:ARG:NH2	1:G:37:ARG:HB3	2.09	0.67
1:I:37:ARG:NH2	1:I:37:ARG:HB3	2.09	0.67
1:O:158:TRP:HB3	1:O:173:CYS:CA	2.24	0.67
1:U:273:ARG:HH22	1:U:453:LEU:CD1	2.08	0.67
1:C:237:ASP:H	1:C:243:PRO:HA	1.59	0.67
1:J:108:LYS:HD3	1:J:112:ASN:HD21	1.59	0.67
1:K:108:LYS:HD3	1:K:112:ASN:HD21	1.59	0.67
1:J:225:VAL:HG22	1:J:276:VAL:HG12	1.76	0.67
1:K:554:LEU:HD12	1:K:557:PHE:HD2	1.58	0.67
1:D:407:ALA:HB1	1:E:334:MSE:HE1	1.77	0.67
1:H:35:PHE:C	1:H:37:ARG:H	1.95	0.67
1:K:158:TRP:CH2	1:K:302:PRO:HG3	2.29	0.67
1:O:78:VAL:HG12	1:O:79:LEU:N	2.09	0.67
1:Q:248:LYS:HD3	1:Q:251:ILE:HB	1.77	0.67
1:M:158:TRP:N	1:M:158:TRP:CD1	2.60	0.67
1:P:209:PHE:CZ	1:P:214:GLN:HG2	2.30	0.67
1:U:534:GLU:O	1:U:538:LEU:HD23	1.95	0.67
1:F:593:LEU:O	1:F:597:GLN:HG2	1.93	0.67
1:G:351:PHE:CD2	1:G:356:ILE:HD11	2.29	0.67
1:U:113:ILE:HD13	1:U:150:HIS:CE1	2.29	0.67
1:A:561:ASP:HB2	1:B:89:ASP:HA	1.77	0.67
1:C:158:TRP:CD1	1:C:158:TRP:N	2.60	0.67
1:U:37:ARG:HH21	1:U:37:ARG:HB3	1.60	0.67
1:U:78:VAL:HG12	1:U:79:LEU:N	2.09	0.67
1:S:248:LYS:HD3	1:S:251:ILE:HB	1.75	0.67
1:W:248:LYS:HD3	1:W:251:ILE:HB	1.76	0.67
1:W:158:TRP:N	1:W:158:TRP:CD1	2.62	0.67
1:Q:248:LYS:HB3	1:Q:511:ARG:NH1	2.06	0.67
1:J:237:ASP:H	1:J:243:PRO:HA	1.60	0.67
1:G:108:LYS:HD3	1:G:112:ASN:HD21	1.59	0.67
1:J:442:ALA:HB1	3:J:702:HOH:O	1.95	0.67
1:R:450:GLN:HG2	1:R:450:GLN:O	1.94	0.67

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:379:GLU:O	1:K:380:ASN:HB2	1.95	0.67
1:E:593:LEU:O	1:E:597:GLN:HG2	1.93	0.67
1:G:158:TRP:CH2	1:G:302:PRO:HG3	2.29	0.67
1:M:37:ARG:HB3	1:M:37:ARG:HH21	1.60	0.67
1:R:158:TRP:N	1:R:158:TRP:CD1	2.63	0.67
1:D:237:ASP:H	1:D:243:PRO:HA	1.59	0.67
1:A:237:ASP:H	1:A:243:PRO:HA	1.59	0.67
1:N:209:PHE:CZ	1:N:214:GLN:HG2	2.29	0.67
1:Q:209:PHE:CZ	1:Q:214:GLN:HG2	2.30	0.67
1:N:232:ALA:CB	1:N:269:ARG:H	2.08	0.67
1:I:351:PHE:CD2	1:I:356:ILE:HD11	2.29	0.67
1:C:442:ALA:HB1	3:C:702:HOH:O	1.95	0.67
1:C:209:PHE:N	1:C:210:PRO:HD3	2.08	0.67
1:L:237:ASP:H	1:L:243:PRO:HA	1.59	0.67
1:H:442:ALA:HB1	3:H:702:HOH:O	1.95	0.67
1:J:561:ASP:OD2	1:K:92:ASP:HB3	1.95	0.67
1:K:561:ASP:OD2	1:L:92:ASP:HB3	1.93	0.67
1:T:248:LYS:HD3	1:T:251:ILE:HB	1.76	0.67
1:B:237:ASP:H	1:B:243:PRO:HA	1.59	0.67
1:X:209:PHE:CZ	1:X:214:GLN:HG2	2.30	0.67
1:E:554:LEU:HD12	1:E:557:PHE:HD2	1.58	0.67
1:U:384:LEU:HD22	1:U:384:LEU:H	1.59	0.67
1:D:108:LYS:HD3	1:D:112:ASN:HD21	1.59	0.67
1:D:585:GLU:C	1:D:587:PRO:HD3	2.15	0.67
1:L:379:GLU:O	1:L:380:ASN:HB2	1.95	0.67
1:G:379:GLU:O	1:G:380:ASN:HB2	1.95	0.67
1:H:165:MSE:HG3	1:H:307:TRP:CE3	2.30	0.67
1:L:165:MSE:HG3	1:L:307:TRP:CE3	2.30	0.67
1:R:560:LEU:HD22	1:X:82:PRO:HG2	1.75	0.67
1:X:113:ILE:HD13	1:X:150:HIS:CE1	2.31	0.67
1:C:351:PHE:CD2	1:C:356:ILE:HD11	2.29	0.67
1:D:351:PHE:CD2	1:D:356:ILE:HD11	2.29	0.67
1:C:585:GLU:C	1:C:587:PRO:HD3	2.15	0.67
1:M:534:GLU:O	1:M:538:LEU:HD23	1.95	0.67
1:D:379:GLU:O	1:D:380:ASN:HB2	1.95	0.66
1:E:165:MSE:HG3	1:E:307:TRP:CE3	2.30	0.66
1:J:35:PHE:C	1:J:37:ARG:H	1.95	0.66
1:M:560:LEU:HD22	1:O:82:PRO:HG2	1.78	0.66
1:M:209:PHE:CZ	1:M:214:GLN:HG2	2.29	0.66
1:A:554:LEU:HD12	1:A:557:PHE:HD2	1.58	0.66
1:B:379:GLU:O	1:B:380:ASN:HB2	1.95	0.66
1:W:384:LEU:HD22	1:W:384:LEU:H	1.59	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:534:GLU:O	1:R:538:LEU:HD23	1.95	0.66
1:H:351:PHE:CD2	1:H:356:ILE:HD11	2.29	0.66
1:A:34:PHE:CZ	1:A:328:ARG:NH2	2.47	0.66
1:A:78:VAL:HG22	1:A:444:LEU:HD21	1.78	0.66
1:D:34:PHE:HE1	1:D:324:LYS:HZ2	1.39	0.66
1:D:78:VAL:HG22	1:D:444:LEU:HD21	1.78	0.66
1:E:379:GLU:O	1:E:380:ASN:HB2	1.95	0.66
1:E:78:VAL:HG22	1:E:444:LEU:HD21	1.78	0.66
1:H:37:ARG:NH2	1:H:37:ARG:HB3	2.09	0.66
1:O:248:LYS:HB3	1:O:511:ARG:NH1	2.06	0.66
1:N:330:ARG:NH2	1:N:409:THR:HG21	2.08	0.66
1:C:108:LYS:HD3	1:C:112:ASN:HD21	1.59	0.66
1:C:225:VAL:HG22	1:C:276:VAL:HG12	1.76	0.66
1:J:379:GLU:O	1:J:380:ASN:HB2	1.95	0.66
1:A:182:ASN:HD22	1:B:171:ARG:HH21	1.42	0.66
1:G:165:MSE:HG3	1:G:307:TRP:CE3	2.30	0.66
1:H:78:VAL:HG22	1:H:444:LEU:HD21	1.78	0.66
1:R:78:VAL:CG2	1:R:444:LEU:HD11	2.22	0.66
1:K:227:GLU:HA	1:K:274:ARG:HA	1.78	0.66
1:W:209:PHE:CZ	1:W:214:GLN:HG2	2.30	0.66
1:Q:94:LEU:HA	1:Q:97:MSE:HE2	1.77	0.66
1:H:379:GLU:O	1:H:380:ASN:HB2	1.95	0.66
1:B:225:VAL:HG22	1:B:276:VAL:HG12	1.76	0.66
1:R:231:THR:HG21	1:R:249:ARG:HH11	1.60	0.66
1:N:384:LEU:H	1:N:384:LEU:HD22	1.58	0.66
1:L:554:LEU:HD12	1:L:557:PHE:HD2	1.58	0.66
1:N:575:GLN:O	1:N:579:MSE:HG2	1.95	0.66
1:L:225:VAL:HG22	1:L:276:VAL:HG12	1.76	0.66
1:C:37:ARG:NH2	1:C:37:ARG:HB3	2.09	0.66
1:D:182:ASN:ND2	1:F:171:ARG:HH21	1.94	0.66
1:F:78:VAL:HG22	1:F:444:LEU:HD21	1.78	0.66
1:I:165:MSE:HG3	1:I:307:TRP:CE3	2.30	0.66
1:J:165:MSE:HG3	1:J:307:TRP:CE3	2.30	0.66
1:S:158:TRP:N	1:S:158:TRP:CD1	2.62	0.66
1:Q:158:TRP:N	1:Q:158:TRP:CD1	2.62	0.66
1:N:248:LYS:HB3	1:N:511:ARG:NH1	2.07	0.66
1:G:237:ASP:H	1:G:243:PRO:HA	1.60	0.66
1:A:227:GLU:HA	1:A:274:ARG:HA	1.78	0.66
1:W:231:THR:HG21	1:W:249:ARG:HH11	1.60	0.66
1:W:113:ILE:HD13	1:W:150:HIS:CE1	2.31	0.66
1:Q:534:GLU:O	1:Q:538:LEU:HD23	1.95	0.66
1:M:94:LEU:HA	1:M:97:MSE:HE2	1.77	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:113:ILE:HD13	1:Q:150:HIS:CE1	2.30	0.66
1:C:78:VAL:HG22	1:C:444:LEU:HD21	1.78	0.66
1:E:158:TRP:CH2	1:E:302:PRO:HG3	2.29	0.66
1:F:37:ARG:NH2	1:F:37:ARG:HB3	2.09	0.66
1:G:158:TRP:CD1	1:G:158:TRP:N	2.60	0.66
1:I:41:TRP:HZ3	1:I:42:ASP:HB3	1.61	0.66
1:L:41:TRP:HZ3	1:L:42:ASP:HB3	1.61	0.66
1:Q:330:ARG:NH2	1:Q:409:THR:HG21	2.06	0.66
1:L:227:GLU:HA	1:L:274:ARG:HA	1.78	0.66
1:F:108:LYS:HD3	1:F:112:ASN:HD21	1.59	0.66
1:L:585:GLU:C	1:L:587:PRO:HD3	2.15	0.66
1:N:94:LEU:HA	1:N:97:MSE:HE2	1.76	0.66
1:B:165:MSE:HG3	1:B:307:TRP:CE3	2.30	0.66
1:K:41:TRP:HZ3	1:K:42:ASP:HB3	1.61	0.66
1:O:560:LEU:O	1:O:565:VAL:HG21	1.96	0.66
1:T:158:TRP:N	1:T:158:TRP:CD1	2.62	0.66
1:P:248:LYS:HD3	1:P:251:ILE:HB	1.77	0.66
1:B:227:GLU:HA	1:B:274:ARG:HA	1.78	0.66
1:H:227:GLU:HA	1:H:274:ARG:HA	1.78	0.66
1:T:209:PHE:CZ	1:T:214:GLN:HG2	2.30	0.66
1:W:94:LEU:HA	1:W:97:MSE:HE2	1.78	0.66
1:O:534:GLU:O	1:O:538:LEU:HD23	1.96	0.66
1:S:575:GLN:O	1:S:579:MSE:HG2	1.94	0.66
1:E:225:VAL:HG22	1:E:276:VAL:HG12	1.76	0.66
1:C:379:GLU:O	1:C:380:ASN:HB2	1.95	0.66
1:G:442:ALA:HB1	3:G:702:HOH:O	1.95	0.66
1:T:158:TRP:HB3	1:T:173:CYS:CA	2.24	0.66
1:U:248:LYS:HB3	1:U:511:ARG:NH1	2.05	0.66
1:W:330:ARG:NH2	1:W:409:THR:HG21	2.09	0.66
1:J:227:GLU:HA	1:J:274:ARG:HA	1.78	0.66
1:H:237:ASP:H	1:H:243:PRO:HA	1.60	0.66
1:R:209:PHE:CZ	1:R:214:GLN:HG2	2.29	0.66
1:M:575:GLN:O	1:M:579:MSE:HG2	1.96	0.66
1:G:110:ALA:O	1:G:113:ILE:HG13	4.33	0.66
1:K:442:ALA:HB1	3:K:702:HOH:O	1.95	0.66
2:Z:110:ALA:O	2:Z:113:ILE:HG13	1.96	0.66
1:O:231:THR:HG21	1:O:249:ARG:HH11	1.61	0.66
1:F:379:GLU:O	1:F:380:ASN:HB2	1.95	0.66
1:E:37:ARG:NH2	1:E:37:ARG:HB3	2.09	0.66
1:J:110:ALA:O	1:J:113:ILE:HG13	4.33	0.66
1:J:41:TRP:HZ3	1:J:42:ASP:HB3	1.61	0.66
1:L:34:PHE:HE1	1:L:324:LYS:HZ2	1.37	0.66

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:330:ARG:NH2	1:R:409:THR:HG21	2.06	0.66
1:S:273:ARG:HH22	1:S:453:LEU:CD1	2.09	0.66
1:P:232:ALA:CB	1:P:269:ARG:H	2.08	0.66
1:B:108:LYS:HD3	1:B:112:ASN:HD21	1.59	0.66
1:E:108:LYS:HD3	1:E:112:ASN:HD21	1.59	0.66
1:I:110:ALA:O	1:I:113:ILE:HG13	4.33	0.66
1:J:585:GLU:C	1:J:587:PRO:HD3	2.15	0.66
1:L:108:LYS:HD3	1:L:112:ASN:HD21	1.59	0.66
1:A:165:MSE:HG3	1:A:307:TRP:CE3	2.30	0.66
1:K:165:MSE:HG3	1:K:307:TRP:CE3	2.30	0.66
1:K:41:TRP:CE3	1:K:42:ASP:CA	2.79	0.66
1:K:78:VAL:HG22	1:K:444:LEU:HD21	1.78	0.66
1:P:325:ASP:OD2	1:L:136:SER:HB3	165.06	0.66
1:X:248:LYS:HD3	1:X:251:ILE:HB	1.77	0.66
1:V:248:LYS:HB3	1:V:511:ARG:NH1	2.07	0.66
1:B:561:ASP:HB2	1:C:89:ASP:HA	1.78	0.66
1:O:232:ALA:CB	1:O:269:ARG:H	2.09	0.66
1:B:209:PHE:N	1:B:210:PRO:HD3	2.08	0.66
1:F:237:ASP:H	1:F:243:PRO:HA	1.60	0.66
1:A:225:VAL:HG22	1:A:276:VAL:HG12	1.76	0.66
1:B:41:TRP:HZ3	1:B:42:ASP:HB3	1.61	0.66
1:J:212:LEU:HD22	1:K:26:ARG:HG2	1.78	0.66
1:O:94:LEU:HA	1:O:97:MSE:HE2	1.77	0.66
1:M:334:MSE:SE	1:O:404:MSE:HE1	2.46	0.66
1:E:227:GLU:HA	1:E:274:ARG:HA	1.78	0.66
1:W:26:ARG:NH2	1:W:30:LYS:HD3	2.11	0.66
1:P:534:GLU:O	1:P:538:LEU:HD23	1.96	0.66
1:S:94:LEU:HA	1:S:97:MSE:HE2	1.76	0.66
1:E:442:ALA:HB1	3:E:702:HOH:O	1.95	0.66
1:D:442:ALA:HB1	3:D:702:HOH:O	1.95	0.66
1:C:556:TYR:OH	1:E:542:THR:HG21	1.96	0.66
1:V:575:GLN:O	1:V:579:MSE:HG2	1.96	0.66
1:V:94:LEU:HA	1:V:97:MSE:HE2	1.77	0.66
1:C:165:MSE:HG3	1:C:307:TRP:CE3	2.30	0.65
1:D:58:ASP:O	1:D:59:VAL:CB	2.45	0.65
1:H:41:TRP:CE3	1:H:42:ASP:CA	2.79	0.65
1:E:58:ASP:O	1:E:59:VAL:CB	2.45	0.65
1:W:158:TRP:HB3	1:W:173:CYS:CA	2.23	0.65
1:P:330:ARG:NH2	1:P:409:THR:HG21	2.07	0.65
1:E:237:ASP:H	1:E:243:PRO:HA	1.59	0.65
1:F:227:GLU:HA	1:F:274:ARG:HA	1.78	0.65
1:W:575:GLN:O	1:W:579:MSE:HG2	1.96	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:575:GLN:O	1:R:579:MSE:HG2	1.96	0.65
1:A:37:ARG:HB3	1:A:37:ARG:NH2	2.09	0.65
1:G:58:ASP:O	1:G:59:VAL:CB	2.45	0.65
1:I:561:ASP:HB2	1:J:89:ASP:HA	1.78	0.65
2:Y:32:ALA:O	2:Y:33:THR:HG22	1.92	0.65
1:N:26:ARG:NH2	1:N:30:LYS:HD3	2.11	0.65
1:P:78:VAL:CG2	1:P:444:LEU:HD11	2.23	0.65
1:I:227:GLU:HA	1:I:274:ARG:HA	1.78	0.65
1:M:232:ALA:CB	1:M:269:ARG:H	2.08	0.65
1:A:352:TRP:CG	1:L:376:ARG:HB2	2.31	0.65
1:F:110:ALA:O	1:F:113:ILE:HG13	4.33	0.65
1:W:15:PHE:HZ	1:W:283:CYS:HG	1.42	0.65
1:F:442:ALA:HB1	3:F:702:HOH:O	1.95	0.65
1:D:26:ARG:HG2	1:E:212:LEU:HD22	1.77	0.65
1:G:78:VAL:HG22	1:G:444:LEU:HD21	1.78	0.65
1:J:78:VAL:HG22	1:J:444:LEU:HD21	1.78	0.65
2:Z:32:ALA:O	2:Z:33:THR:HG22	1.92	0.65
1:R:37:ARG:HB3	1:R:37:ARG:HH21	1.60	0.65
1:S:158:TRP:HB3	1:S:173:CYS:CA	2.25	0.65
1:U:158:TRP:N	1:U:158:TRP:CD1	2.64	0.65
1:I:379:GLU:O	1:I:380:ASN:HB2	1.95	0.65
1:U:404:MSE:HE1	1:X:334:MSE:SE	2.47	0.65
1:H:58:ASP:O	1:H:59:VAL:CB	2.45	0.65
1:S:232:ALA:CB	1:S:269:ARG:H	2.10	0.65
2:Y:110:ALA:O	2:Y:113:ILE:HG13	1.96	0.65
1:I:556:TYR:OH	1:J:542:THR:HG21	1.95	0.65
1:B:41:TRP:CE3	1:B:42:ASP:CA	2.79	0.65
1:F:165:MSE:HG3	1:F:307:TRP:CE3	2.30	0.65
1:X:78:VAL:CG2	1:X:444:LEU:HD11	2.23	0.65
1:X:560:LEU:O	1:X:565:VAL:HG21	1.97	0.65
1:P:158:TRP:N	1:P:158:TRP:CD1	2.63	0.65
1:T:248:LYS:HB3	1:T:511:ARG:NH1	2.04	0.65
1:D:227:GLU:HA	1:D:274:ARG:HA	1.78	0.65
1:B:560:LEU:HD22	1:C:82:PRO:HG2	1.78	0.65
1:U:209:PHE:CZ	1:U:214:GLN:HG2	2.30	0.65
1:A:379:GLU:O	1:A:380:ASN:HB2	1.95	0.65
1:X:231:THR:HG21	1:X:249:ARG:HH11	1.61	0.65
1:O:575:GLN:O	1:O:579:MSE:HG2	1.97	0.65
1:E:41:TRP:CE3	1:E:42:ASP:CA	2.79	0.65
1:H:41:TRP:HZ3	1:H:42:ASP:HB3	1.61	0.65
1:I:78:VAL:HG22	1:I:444:LEU:HD21	1.78	0.65
1:S:34:PHE:HZ	1:S:328:ARG:HH22	1.38	0.65

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:37:ARG:HB3	1:S:37:ARG:HH21	1.61	0.65
1:V:209:PHE:CZ	1:V:214:GLN:HG2	2.30	0.65
1:D:225:VAL:HG22	1:D:276:VAL:HG12	1.76	0.65
1:L:442:ALA:HB1	3:L:702:HOH:O	1.95	0.65
1:F:41:TRP:CE3	1:F:42:ASP:CA	2.79	0.65
1:S:158:TRP:CH2	1:S:302:PRO:HG3	2.31	0.65
1:R:561:ASP:OD2	1:X:92:ASP:HB3	1.97	0.65
1:T:273:ARG:HH22	1:T:453:LEU:CD1	2.09	0.65
1:C:227:GLU:HA	1:C:274:ARG:HA	1.78	0.65
1:C:58:ASP:O	1:C:59:VAL:CB	2.45	0.65
1:L:58:ASP:O	1:L:59:VAL:CB	2.45	0.65
2:Z:28:VAL:CG2	2:Z:96:LEU:HD12	2.22	0.65
1:S:431:ALA:O	1:S:435:VAL:HG22	1.96	0.65
1:Q:158:TRP:CH2	1:Q:302:PRO:HG3	2.31	0.65
1:F:108:LYS:HD2	1:G:438:LEU:HD11	1.79	0.65
1:D:438:LEU:HD11	1:E:108:LYS:HD2	1.79	0.65
1:Q:231:THR:HG21	1:Q:249:ARG:HH11	1.62	0.65
1:P:94:LEU:HA	1:P:97:MSE:HE2	1.79	0.65
1:A:158:TRP:CD1	1:A:158:TRP:N	2.60	0.65
1:C:41:TRP:HZ3	1:C:42:ASP:HB3	1.61	0.65
1:D:41:TRP:CE3	1:D:42:ASP:CA	2.79	0.65
1:F:58:ASP:O	1:F:59:VAL:CB	2.45	0.65
1:G:41:TRP:HZ3	1:G:42:ASP:HB3	1.61	0.65
1:H:47:GLN:N	1:H:47:GLN:OE1	2.30	0.65
1:I:47:GLN:OE1	1:I:47:GLN:N	2.30	0.65
1:J:47:GLN:OE1	1:J:47:GLN:N	2.30	0.65
1:K:158:TRP:CE3	1:K:173:CYS:SG	2.88	0.65
1:S:26:ARG:NH2	1:S:30:LYS:HD3	2.11	0.65
1:N:12:LEU:O	1:N:16:ASP:HB2	1.97	0.65
1:A:58:ASP:O	1:A:59:VAL:CB	2.45	0.65
1:G:227:GLU:HA	1:G:274:ARG:HA	1.78	0.65
1:R:273:ARG:HH22	1:R:453:LEU:CD1	2.10	0.65
1:G:5:GLU:HG2	1:G:6:ASN:N	2.12	0.65
1:T:287:LEU:HD12	1:T:287:LEU:N	2.12	0.65
1:B:110:ALA:O	1:B:113:ILE:HG13	4.33	0.65
1:A:41:TRP:HZ3	1:A:42:ASP:HB3	1.61	0.65
1:E:74:ASN:HB2	1:E:75:PRO:HD3	4.60	0.65
1:G:182:ASN:ND2	1:H:171:ARG:HH21	1.95	0.65
1:G:41:TRP:CE3	1:G:42:ASP:CA	2.79	0.65
1:W:273:ARG:HH22	1:W:453:LEU:CD1	2.09	0.65
1:D:5:GLU:HG2	1:D:6:ASN:N	2.12	0.65
1:A:144:ILE:HG12	1:A:447:TYR:HE1	1.62	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:165:MSE:HG3	1:D:307:TRP:CE3	2.30	0.64
1:N:560:LEU:O	1:N:565:VAL:HG21	1.97	0.64
1:T:330:ARG:NH2	1:T:409:THR:HG21	2.07	0.64
1:O:212:LEU:HD22	1:P:26:ARG:HG2	1.79	0.64
1:B:5:GLU:HG2	1:B:6:ASN:N	2.12	0.64
1:M:384:LEU:HD22	1:M:384:LEU:H	1.61	0.64
1:A:41:TRP:CE3	1:A:42:ASP:CA	2.79	0.64
1:B:95:MSE:HE1	1:B:99:ARG:CZ	2.27	0.64
1:C:74:ASN:HB2	1:C:75:PRO:HD3	4.59	0.64
1:H:57:PHE:HD2	1:H:330:ARG:CB	2.10	0.64
1:I:57:PHE:HD2	1:I:330:ARG:CB	2.10	0.64
1:I:41:TRP:CE3	1:I:42:ASP:CA	2.79	0.64
1:J:71:MSE:HE2	1:J:119:ILE:HD11	1.80	0.64
1:J:95:MSE:HE1	1:J:99:ARG:CZ	2.28	0.64
1:K:95:MSE:HE1	1:K:99:ARG:CZ	2.27	0.64
1:L:41:TRP:CE3	1:L:42:ASP:CA	2.79	0.64
1:U:26:ARG:NH2	1:U:30:LYS:HD3	2.13	0.64
1:K:58:ASP:O	1:K:59:VAL:CB	2.45	0.64
1:R:158:TRP:CE3	1:R:173:CYS:SG	2.86	0.64
1:L:5:GLU:HG2	1:L:6:ASN:N	2.13	0.64
1:D:110:ALA:O	1:D:113:ILE:HG13	4.33	0.64
1:C:41:TRP:CE3	1:C:42:ASP:CA	2.79	0.64
1:D:74:ASN:HB2	1:D:75:PRO:HD3	4.60	0.64
1:E:57:PHE:HD2	1:E:330:ARG:CB	2.10	0.64
1:F:15:PHE:CE1	1:F:283:CYS:HA	2.33	0.64
1:F:57:PHE:HD2	1:F:330:ARG:CB	2.10	0.64
1:J:41:TRP:CE3	1:J:42:ASP:CA	2.79	0.64
1:N:128:LEU:HD12	1:N:446:THR:HG23	1.79	0.64
1:N:78:VAL:CG2	1:N:444:LEU:HD11	2.22	0.64
1:V:37:ARG:HH21	1:V:37:ARG:HB3	1.62	0.64
1:I:58:ASP:O	1:I:59:VAL:CB	2.45	0.64
1:V:158:TRP:HB3	1:V:173:CYS:CA	2.23	0.64
1:I:5:GLU:HG2	1:I:6:ASN:N	2.12	0.64
1:B:57:PHE:HD2	1:B:330:ARG:CB	2.11	0.64
1:H:110:ALA:O	1:H:113:ILE:HG13	4.33	0.64
1:R:384:LEU:H	1:R:384:LEU:HD22	1.63	0.64
1:O:567:MSE:SE	1:P:576:LEU:HD13	2.47	0.64
1:D:144:ILE:HG12	1:D:447:TYR:HE1	1.63	0.64
1:H:15:PHE:CE1	1:H:283:CYS:HA	2.33	0.64
1:H:35:PHE:HE1	1:H:321:ARG:HH11	1.46	0.64
1:K:71:MSE:HE2	1:K:119:ILE:HD11	1.80	0.64
1:L:528:LYS:NZ	1:L:560:LEU:HD21	2.13	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:78:VAL:HG22	1:L:444:LEU:HD21	1.78	0.64
1:Q:136:SER:HB3	1:S:325:ASP:OD2	88.03	0.64
1:T:158:TRP:CH2	1:T:302:PRO:HG3	2.33	0.64
1:U:92:ASP:HB3	1:X:561:ASP:OD2	1.97	0.64
1:P:15:PHE:CE1	1:P:283:CYS:HA	2.32	0.64
1:V:113:ILE:HD13	1:V:150:HIS:CE1	2.33	0.64
1:V:231:THR:HG21	1:V:249:ARG:HH11	1.62	0.64
1:E:35:PHE:HE1	1:E:321:ARG:HH11	1.46	0.64
1:E:95:MSE:HE1	1:E:99:ARG:CZ	2.28	0.64
1:G:15:PHE:CE1	1:G:283:CYS:HA	2.33	0.64
1:I:15:PHE:CE1	1:I:283:CYS:HA	2.33	0.64
1:I:35:PHE:HE1	1:I:321:ARG:HH11	1.46	0.64
1:I:528:LYS:NZ	1:I:560:LEU:HD21	2.13	0.64
1:X:158:TRP:CH2	1:X:302:PRO:HG3	2.33	0.64
1:X:273:ARG:HH22	1:X:453:LEU:CD1	2.09	0.64
1:A:95:MSE:HE1	1:A:99:ARG:CZ	2.28	0.64
1:G:95:MSE:HE1	1:G:99:ARG:CZ	2.28	0.64
1:N:585:GLU:C	1:N:587:PRO:HD3	2.17	0.64
1:U:585:GLU:C	1:U:587:PRO:HD3	2.18	0.64
1:S:113:ILE:HD13	1:S:150:HIS:CE1	2.32	0.64
1:A:57:PHE:HD2	1:A:330:ARG:CB	2.10	0.64
1:B:78:VAL:HG22	1:B:444:LEU:HD21	1.78	0.64
1:D:15:PHE:CE1	1:D:283:CYS:HA	2.33	0.64
1:E:47:GLN:N	1:E:47:GLN:OE1	2.30	0.64
1:H:95:MSE:HE1	1:H:99:ARG:CZ	2.27	0.64
1:L:95:MSE:HE1	1:L:99:ARG:CZ	2.28	0.64
1:S:561:ASP:HB2	1:T:89:ASP:HA	1.80	0.64
1:N:158:TRP:CH2	1:N:302:PRO:HG3	2.33	0.64
1:B:528:LYS:NZ	1:B:560:LEU:HD21	2.13	0.64
1:H:236:GLN:HA	1:H:244:VAL:H	1.63	0.64
1:J:5:GLU:HG2	1:J:6:ASN:N	2.12	0.64
1:M:585:GLU:C	1:M:587:PRO:HD3	2.18	0.64
1:O:585:GLU:C	1:O:587:PRO:HD3	2.18	0.64
1:N:534:GLU:O	1:N:538:LEU:HD23	1.98	0.64
1:A:71:MSE:HE2	1:A:119:ILE:HD11	1.80	0.64
1:A:528:LYS:NZ	1:A:560:LEU:HD21	2.13	0.64
1:E:15:PHE:CE1	1:E:283:CYS:HA	2.33	0.64
1:E:34:PHE:HE1	1:E:324:LYS:HZ2	1.43	0.64
1:E:144:ILE:HG12	1:E:447:TYR:HE1	1.63	0.64
1:H:71:MSE:HE2	1:H:119:ILE:HD11	1.80	0.64
1:H:74:ASN:HB2	1:H:75:PRO:HD3	4.59	0.64
1:J:58:ASP:O	1:J:59:VAL:CB	2.45	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:26:ARG:NH2	1:O:30:LYS:HD3	2.13	0.64
1:O:37:ARG:HH21	1:O:37:ARG:HB3	1.61	0.64
1:N:37:ARG:NH2	1:N:41:TRP:HB3	2.13	0.64
1:X:78:VAL:HG12	1:X:79:LEU:N	2.12	0.64
1:G:546:THR:CG2	1:G:547:PRO:HD3	2.28	0.64
1:Q:273:ARG:HH22	1:Q:453:LEU:CD1	2.09	0.64
1:B:236:GLN:HA	1:B:244:VAL:H	1.63	0.64
1:A:236:GLN:HA	1:A:244:VAL:H	1.63	0.64
1:W:232:ALA:CB	1:W:269:ARG:H	2.10	0.64
1:X:534:GLU:O	1:X:538:LEU:HD23	1.97	0.64
1:U:94:LEU:HA	1:U:97:MSE:HE2	1.80	0.64
1:W:585:GLU:C	1:W:587:PRO:HD3	2.18	0.64
1:Q:585:GLU:C	1:Q:587:PRO:HD3	2.18	0.64
1:A:47:GLN:OE1	1:A:47:GLN:N	2.30	0.64
1:B:144:ILE:HG12	1:B:447:TYR:HE1	1.62	0.64
1:B:15:PHE:CE1	1:B:283:CYS:HA	2.33	0.64
1:F:47:GLN:N	1:F:47:GLN:OE1	2.30	0.64
1:G:47:GLN:N	1:G:47:GLN:OE1	2.30	0.64
1:G:528:LYS:NZ	1:G:560:LEU:HD21	2.13	0.64
1:I:144:ILE:HG12	1:I:447:TYR:HE1	1.62	0.64
1:K:78:VAL:HG12	1:K:79:LEU:N	2.13	0.64
1:Q:560:LEU:O	1:Q:565:VAL:HG21	1.98	0.64
2:Y:42:MET:CG	2:Y:42:MET:O	2.30	0.64
1:V:273:ARG:HH22	1:V:453:LEU:CD1	2.10	0.64
1:S:585:GLU:C	1:S:587:PRO:HD3	2.18	0.64
1:A:15:PHE:CE1	1:A:283:CYS:HA	2.33	0.64
1:B:15:PHE:HZ	1:B:283:CYS:HG	1.45	0.64
1:C:528:LYS:NZ	1:C:560:LEU:HD21	2.13	0.64
1:D:528:LYS:NZ	1:D:560:LEU:HD21	2.13	0.64
1:E:528:LYS:NZ	1:E:560:LEU:HD21	2.13	0.64
1:I:71:MSE:HE2	1:I:119:ILE:HD11	1.80	0.64
1:Q:37:ARG:HH21	1:Q:37:ARG:HB3	1.61	0.64
1:V:560:LEU:O	1:V:565:VAL:HG21	1.97	0.64
1:P:136:SER:HB3	1:X:325:ASP:OD2	72.27	0.64
1:R:560:LEU:O	1:R:565:VAL:HG21	1.98	0.64
1:G:236:GLN:HA	1:G:244:VAL:H	1.63	0.64
1:R:273:ARG:NH2	1:R:453:LEU:HD21	2.13	0.64
1:I:236:GLN:HA	1:I:244:VAL:H	1.63	0.64
1:C:236:GLN:HA	1:C:244:VAL:H	1.63	0.64
1:R:113:ILE:HD13	1:R:150:HIS:CE1	2.32	0.64
1:V:534:GLU:O	1:V:538:LEU:HD23	1.98	0.64
1:A:110:ALA:O	1:A:113:ILE:HG13	4.33	0.64

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:110:ALA:O	1:E:113:ILE:HG13	4.33	0.64
1:C:71:MSE:HE2	1:C:119:ILE:HD11	1.80	0.64
1:E:78:VAL:HG12	1:E:79:LEU:N	2.13	0.64
1:F:71:MSE:HE2	1:F:119:ILE:HD11	1.80	0.64
1:F:78:VAL:HG12	1:F:79:LEU:N	2.13	0.64
1:G:48:TYR:O	1:G:49:THR:HB	1.98	0.64
1:H:144:ILE:HG12	1:H:447:TYR:HE1	1.62	0.64
1:J:15:PHE:CE1	1:J:283:CYS:HA	2.33	0.64
1:K:15:PHE:CE1	1:K:283:CYS:HA	2.33	0.64
1:Q:26:ARG:NH2	1:Q:30:LYS:HD3	2.13	0.64
1:U:560:LEU:O	1:U:565:VAL:HG21	1.98	0.64
1:J:564:GLY:HA2	1:K:554:LEU:HD21	1.80	0.64
1:X:585:GLU:C	1:X:587:PRO:HD3	2.18	0.64
1:M:231:THR:HG21	1:M:249:ARG:HH11	1.63	0.64
1:B:71:MSE:HE2	1:B:119:ILE:HD11	1.80	0.63
1:E:41:TRP:HZ3	1:E:42:ASP:HB3	1.61	0.63
1:F:48:TYR:O	1:F:49:THR:HB	1.99	0.63
1:G:158:TRP:CE3	1:G:173:CYS:SG	2.88	0.63
1:G:74:ASN:HB2	1:G:75:PRO:HD3	4.59	0.63
1:H:34:PHE:CZ	1:H:328:ARG:NH2	2.48	0.63
1:J:35:PHE:HE1	1:J:321:ARG:HH11	1.46	0.63
1:J:74:ASN:HB2	1:J:75:PRO:HD3	4.59	0.63
2:Z:42:MET:CG	2:Z:42:MET:O	2.30	0.63
1:P:560:LEU:O	1:P:565:VAL:HG21	1.97	0.63
1:W:128:LEU:HD12	1:W:446:THR:HG23	1.80	0.63
1:B:58:ASP:O	1:B:59:VAL:CB	2.45	0.63
1:A:546:THR:CG2	1:A:547:PRO:HD3	2.27	0.63
1:J:546:THR:CG2	1:J:547:PRO:HD3	2.28	0.63
1:Q:273:ARG:NH2	1:Q:453:LEU:HD11	2.12	0.63
1:U:232:ALA:CB	1:U:269:ARG:H	2.12	0.63
1:K:57:PHE:HD2	1:K:330:ARG:CB	2.10	0.63
1:H:108:LYS:HD2	1:I:438:LEU:HD11	1.80	0.63
1:T:585:GLU:C	1:T:587:PRO:HD3	2.18	0.63
1:P:231:THR:HG21	1:P:249:ARG:HH11	1.63	0.63
1:I:48:TYR:O	1:I:49:THR:HB	1.98	0.63
1:J:78:VAL:HG12	1:J:79:LEU:N	2.13	0.63
1:N:15:PHE:CE1	1:N:283:CYS:HA	2.33	0.63
1:P:158:TRP:CE3	1:P:173:CYS:SG	2.86	0.63
1:X:158:TRP:HB3	1:X:173:CYS:CA	2.26	0.63
2:Y:74:ASN:HB2	2:Y:75:PRO:HD3	1.79	0.63
1:J:236:GLN:HA	1:J:244:VAL:H	1.63	0.63
1:R:273:ARG:NH2	1:R:453:LEU:HD11	2.12	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:246:TYR:CD2	1:F:511:ARG:HB3	2.34	0.63
1:L:57:PHE:HD2	1:L:330:ARG:CB	2.10	0.63
1:B:556:TYR:OH	1:C:542:THR:HG21	1.99	0.63
1:C:110:ALA:O	1:C:113:ILE:HG13	4.33	0.63
1:P:585:GLU:C	1:P:587:PRO:HD3	2.18	0.63
1:D:71:MSE:HE2	1:D:119:ILE:HD11	1.80	0.63
1:D:35:PHE:HE1	1:D:321:ARG:HH11	1.46	0.63
1:D:95:MSE:HE1	1:D:99:ARG:CZ	2.28	0.63
1:F:95:MSE:HE1	1:F:99:ARG:CZ	2.28	0.63
1:G:78:VAL:HG12	1:G:79:LEU:N	2.13	0.63
1:I:78:VAL:HG12	1:I:79:LEU:N	2.13	0.63
1:K:144:ILE:HG12	1:K:447:TYR:CE1	2.34	0.63
1:M:12:LEU:O	1:M:16:ASP:HB2	1.99	0.63
1:H:5:GLU:HG2	1:H:6:ASN:N	2.12	0.63
1:X:12:LEU:O	1:X:16:ASP:HB2	1.98	0.63
1:C:144:ILE:HG12	1:C:447:TYR:CE1	2.34	0.63
1:C:95:MSE:HE1	1:C:99:ARG:CZ	2.28	0.63
1:D:57:PHE:HD2	1:D:330:ARG:CB	2.11	0.63
1:F:144:ILE:HG12	1:F:447:TYR:CE1	2.34	0.63
1:G:144:ILE:HG12	1:G:447:TYR:HE1	1.63	0.63
1:J:528:LYS:NZ	1:J:560:LEU:HD21	2.13	0.63
1:K:12:LEU:O	1:K:16:ASP:HB2	1.99	0.63
1:O:12:LEU:O	1:O:16:ASP:HB2	1.98	0.63
1:N:325:ASP:OD2	1:V:136:SER:HB3	48.62	0.63
1:P:12:LEU:O	1:P:16:ASP:HB2	1.98	0.63
1:T:12:LEU:O	1:T:16:ASP:HB2	1.98	0.63
1:C:15:PHE:CE1	1:C:283:CYS:HA	2.33	0.63
1:E:236:GLN:HA	1:E:244:VAL:H	1.63	0.63
1:L:236:GLN:HA	1:L:244:VAL:H	1.63	0.63
1:E:5:GLU:HG2	1:E:6:ASN:N	2.12	0.63
1:C:5:GLU:HG2	1:C:6:ASN:N	2.12	0.63
1:K:5:GLU:HG2	1:K:6:ASN:N	2.12	0.63
1:V:232:ALA:CB	1:V:269:ARG:H	2.11	0.63
1:G:12:LEU:O	1:G:16:ASP:HB2	1.99	0.63
1:H:12:LEU:O	1:H:16:ASP:HB2	1.99	0.63
1:A:144:ILE:HG12	1:A:447:TYR:CE1	2.34	0.63
1:D:41:TRP:HZ3	1:D:42:ASP:HB3	1.61	0.63
1:E:144:ILE:HG12	1:E:447:TYR:CE1	2.34	0.63
1:E:71:MSE:HE2	1:E:119:ILE:HD11	1.80	0.63
1:F:74:ASN:HB2	1:F:75:PRO:HD3	4.59	0.63
1:G:57:PHE:HD2	1:G:330:ARG:CB	2.10	0.63
1:I:15:PHE:HZ	1:I:283:CYS:HG	1.45	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:95:MSE:HE1	1:I:99:ARG:CZ	2.28	0.63
1:J:48:TYR:O	1:J:49:THR:HB	1.98	0.63
1:K:144:ILE:HG12	1:K:447:TYR:HE1	1.63	0.63
1:L:78:VAL:HG12	1:L:79:LEU:N	2.13	0.63
1:P:34:PHE:HZ	1:P:328:ARG:HH22	1.36	0.63
1:C:246:TYR:CD2	1:C:511:ARG:HB3	2.34	0.63
1:E:246:TYR:CD2	1:E:511:ARG:HB3	2.34	0.63
1:F:5:GLU:HG2	1:F:6:ASN:N	2.13	0.63
1:Q:232:ALA:CB	1:Q:269:ARG:H	2.11	0.63
1:V:585:GLU:C	1:V:587:PRO:HD3	2.19	0.63
1:C:57:PHE:HD2	1:C:330:ARG:CB	2.10	0.63
1:C:48:TYR:O	1:C:49:THR:HB	1.98	0.63
1:D:15:PHE:HZ	1:D:283:CYS:HG	1.46	0.63
1:E:35:PHE:HE2	1:E:324:LYS:HZ3	1.42	0.63
1:F:144:ILE:HG12	1:F:447:TYR:HE1	1.62	0.63
1:G:71:MSE:HE2	1:G:119:ILE:HD11	1.80	0.63
1:H:528:LYS:NZ	1:H:560:LEU:HD21	2.13	0.63
1:J:144:ILE:HG12	1:J:447:TYR:HE1	1.63	0.63
1:L:15:PHE:CE1	1:L:283:CYS:HA	2.33	0.63
1:L:47:GLN:OE1	1:L:47:GLN:N	2.30	0.63
1:R:15:PHE:CE1	1:R:283:CYS:HA	2.34	0.63
1:T:26:ARG:NH2	1:T:30:LYS:HD3	2.14	0.63
1:S:12:LEU:O	1:S:16:ASP:HB2	1.98	0.63
1:V:158:TRP:N	1:V:158:TRP:CD1	2.63	0.63
1:V:158:TRP:CH2	1:V:302:PRO:HG3	2.34	0.63
1:K:236:GLN:HA	1:K:244:VAL:H	1.63	0.63
1:R:273:ARG:HH22	1:R:453:LEU:HD21	1.64	0.63
1:N:273:ARG:HH22	1:N:453:LEU:CD1	2.11	0.63
1:F:236:GLN:HA	1:F:244:VAL:H	1.63	0.63
1:T:232:ALA:CB	1:T:269:ARG:H	2.11	0.63
1:V:398:PRO:HB3	1:W:395:PRO:HD2	1.81	0.63
1:X:575:GLN:O	1:X:579:MSE:HG2	1.99	0.63
1:A:35:PHE:HE1	1:A:321:ARG:HH11	1.46	0.63
1:A:48:TYR:O	1:A:49:THR:HB	1.98	0.63
1:C:99:ARG:O	1:C:103:ARG:HG3	1.99	0.63
1:D:99:ARG:O	1:D:103:ARG:HG3	1.99	0.63
1:D:47:GLN:OE1	1:D:47:GLN:N	2.30	0.63
1:D:48:TYR:O	1:D:49:THR:HB	1.98	0.63
1:L:158:TRP:CE3	1:L:173:CYS:SG	2.88	0.63
1:M:15:PHE:HZ	1:M:283:CYS:SG	2.21	0.63
1:O:158:TRP:CH2	1:O:302:PRO:HG3	2.34	0.63
2:Z:74:ASN:HB2	2:Z:75:PRO:HD3	1.79	0.63

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:546:THR:CG2	1:D:547:PRO:HD3	2.28	0.63
1:P:26:ARG:NH2	1:P:30:LYS:HD3	2.14	0.63
1:F:12:LEU:O	1:F:16:ASP:HB2	1.99	0.63
1:B:78:VAL:HG12	1:B:79:LEU:N	2.13	0.63
1:H:334:MSE:HE3	1:I:404:MSE:CE	2.29	0.63
1:I:74:ASN:HB2	1:I:75:PRO:HD3	4.59	0.63
1:J:57:PHE:HD2	1:J:330:ARG:CB	2.10	0.63
1:O:66:LYS:HZ3	1:O:420:VAL:HG11	1.63	0.63
1:S:560:LEU:O	1:S:565:VAL:HG21	1.99	0.63
1:T:128:LEU:HD12	1:T:446:THR:HG23	1.81	0.63
1:V:15:PHE:CE1	1:V:283:CYS:HA	2.34	0.63
1:V:12:LEU:O	1:V:16:ASP:HB2	1.98	0.63
1:W:37:ARG:NH2	1:W:41:TRP:HB3	2.13	0.63
1:D:236:GLN:HA	1:D:244:VAL:H	1.63	0.63
1:A:5:GLU:HG2	1:A:6:ASN:N	2.12	0.63
1:G:99:ARG:O	1:G:103:ARG:HG3	1.99	0.63
1:L:337:ASN:HD21	1:L:401:ASN:HD22	1.47	0.63
1:B:74:ASN:HB2	1:B:75:PRO:HD3	4.60	0.63
1:E:99:ARG:O	1:E:103:ARG:HG3	1.99	0.63
1:F:528:LYS:NZ	1:F:560:LEU:HD21	2.13	0.63
1:G:144:ILE:HG12	1:G:447:TYR:CE1	2.34	0.63
1:K:528:LYS:NZ	1:K:560:LEU:HD21	2.13	0.63
1:L:99:ARG:O	1:L:103:ARG:HG3	1.99	0.63
1:W:34:PHE:HE2	1:W:45:LEU:HG	1.64	0.63
1:U:12:LEU:O	1:U:16:ASP:HB2	1.99	0.63
1:K:564:GLY:HA2	1:L:554:LEU:HD21	1.80	0.63
1:Q:40:GLN:HG2	1:R:310:VAL:HG22	1.81	0.63
1:W:12:LEU:O	1:W:16:ASP:HB2	1.98	0.63
1:F:35:PHE:HE1	1:F:321:ARG:HH11	1.46	0.62
1:H:144:ILE:HG12	1:H:447:TYR:CE1	2.34	0.62
1:L:12:LEU:O	1:L:16:ASP:HB2	1.99	0.62
1:M:26:ARG:NH2	1:M:30:LYS:HD3	2.13	0.62
1:N:34:PHE:HE2	1:N:45:LEU:HG	1.64	0.62
1:O:560:LEU:HD22	1:P:82:PRO:HG2	1.81	0.62
1:T:440:MSE:O	1:T:444:LEU:HD22	1.99	0.62
1:W:431:ALA:O	1:W:435:VAL:HG22	1.98	0.62
1:T:15:PHE:CE1	1:T:283:CYS:HA	2.34	0.62
1:B:246:TYR:CD2	1:B:511:ARG:HB3	2.34	0.62
1:I:246:TYR:CD2	1:I:511:ARG:HB3	2.34	0.62
1:W:287:LEU:N	1:W:287:LEU:HD12	2.14	0.62
1:W:15:PHE:CE1	1:W:283:CYS:HA	2.34	0.62
1:A:158:TRP:CE3	1:A:173:CYS:SG	2.88	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:35:PHE:HE1	1:B:321:ARG:HH11	1.46	0.62
1:B:144:ILE:HG12	1:B:447:TYR:CE1	2.34	0.62
1:B:47:GLN:N	1:B:47:GLN:OE1	2.30	0.62
1:D:144:ILE:HG12	1:D:447:TYR:CE1	2.34	0.62
1:D:78:VAL:HG12	1:D:79:LEU:N	2.13	0.62
1:F:99:ARG:O	1:F:103:ARG:HG3	1.99	0.62
1:J:99:ARG:O	1:J:103:ARG:HG3	1.99	0.62
1:O:34:PHE:HE2	1:O:45:LEU:HG	1.64	0.62
1:N:37:ARG:HB3	1:N:37:ARG:HH21	1.64	0.62
1:P:37:ARG:HB3	1:P:37:ARG:HH21	1.62	0.62
1:U:34:PHE:HE2	1:U:45:LEU:HG	1.64	0.62
1:B:546:THR:CG2	1:B:547:PRO:HD3	2.28	0.62
1:R:585:GLU:C	1:R:587:PRO:HD3	2.18	0.62
1:K:337:ASN:HD21	1:K:401:ASN:HD22	1.47	0.62
1:C:12:LEU:O	1:C:16:ASP:HB2	1.99	0.62
1:E:337:ASN:HD21	1:E:401:ASN:HD22	1.47	0.62
1:A:78:VAL:HG12	1:A:79:LEU:N	2.13	0.62
1:E:48:TYR:O	1:E:49:THR:HB	1.98	0.62
1:H:99:ARG:O	1:H:103:ARG:HG3	1.99	0.62
1:I:161:ASN:C	1:I:161:ASN:HD22	2.03	0.62
1:I:144:ILE:HG12	1:I:447:TYR:CE1	2.34	0.62
1:L:144:ILE:HG12	1:L:447:TYR:CE1	2.34	0.62
1:Q:15:PHE:HZ	1:Q:283:CYS:SG	2.22	0.62
1:U:158:TRP:HB3	1:U:173:CYS:CA	2.27	0.62
1:L:546:THR:CG2	1:L:547:PRO:HD3	2.27	0.62
1:O:273:ARG:HH22	1:O:453:LEU:CD1	2.10	0.62
1:W:15:PHE:HZ	1:W:283:CYS:SG	2.22	0.62
1:X:94:LEU:HA	1:X:97:MSE:HE2	1.81	0.62
1:D:191:TYR:HE1	1:D:278:LYS:HZ3	1.47	0.62
1:K:99:ARG:O	1:K:103:ARG:HG3	1.99	0.62
1:L:35:PHE:HE1	1:L:321:ARG:HH11	1.46	0.62
1:L:48:TYR:O	1:L:49:THR:HB	1.98	0.62
1:O:37:ARG:NH2	1:O:41:TRP:HB3	2.14	0.62
1:Q:15:PHE:CE1	1:Q:283:CYS:HA	2.34	0.62
1:N:89:ASP:HA	1:V:561:ASP:CB	2.26	0.62
1:G:246:TYR:CD2	1:G:511:ARG:HB3	2.34	0.62
1:A:74:ASN:HB2	1:A:75:PRO:HD3	4.59	0.62
1:C:158:TRP:CE3	1:C:173:CYS:SG	2.88	0.62
1:C:35:PHE:HE1	1:C:321:ARG:HH11	1.46	0.62
1:I:99:ARG:O	1:I:103:ARG:HG3	1.99	0.62
1:L:144:ILE:HG12	1:L:447:TYR:HE1	1.63	0.62
1:Q:34:PHE:HE2	1:Q:45:LEU:HG	1.65	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:37:ARG:HB3	1:T:37:ARG:HH21	1.63	0.62
1:U:431:ALA:O	1:U:435:VAL:HG22	2.00	0.62
1:W:560:LEU:O	1:W:565:VAL:HG21	1.97	0.62
1:P:15:PHE:CZ	1:P:283:CYS:HA	2.35	0.62
1:H:546:THR:CG2	1:H:547:PRO:HD3	2.27	0.62
1:X:232:ALA:CB	1:X:269:ARG:H	2.12	0.62
1:D:12:LEU:O	1:D:16:ASP:HB2	1.99	0.62
1:D:372:TYR:CE2	1:F:348:LYS:HB2	2.34	0.62
1:B:12:LEU:O	1:B:16:ASP:HB2	1.99	0.62
1:J:144:ILE:HG12	1:J:447:TYR:CE1	2.34	0.62
1:K:48:TYR:O	1:K:49:THR:HB	1.98	0.62
1:P:47:GLN:HG2	1:P:48:TYR:H	1.64	0.62
1:Q:12:LEU:O	1:Q:16:ASP:HB2	1.99	0.62
1:V:78:VAL:HG22	1:V:444:LEU:HD21	1.81	0.62
1:C:546:THR:CG2	1:C:547:PRO:HD3	2.27	0.62
1:J:246:TYR:CD2	1:J:511:ARG:HB3	2.34	0.62
1:R:232:ALA:CB	1:R:269:ARG:H	2.12	0.62
1:A:12:LEU:O	1:A:16:ASP:HB2	1.99	0.62
1:C:337:ASN:HD21	1:C:401:ASN:HD22	1.47	0.62
1:F:161:ASN:C	1:F:161:ASN:HD22	2.03	0.62
1:R:440:MSE:O	1:R:444:LEU:HD22	2.00	0.62
1:V:26:ARG:NH2	1:V:30:LYS:HD3	2.13	0.62
1:W:273:ARG:NH2	1:W:453:LEU:HD11	2.11	0.62
1:A:246:TYR:CD2	1:A:511:ARG:HB3	2.34	0.62
1:A:556:TYR:OH	1:B:542:THR:HG21	2.00	0.62
1:E:12:LEU:O	1:E:16:ASP:HB2	1.99	0.62
1:J:337:ASN:HD21	1:J:401:ASN:HD22	1.47	0.62
1:D:158:TRP:CE3	1:D:173:CYS:SG	2.88	0.62
1:F:182:ASN:ND2	1:G:171:ARG:HH21	1.98	0.62
1:M:34:PHE:HE2	1:M:45:LEU:HG	1.65	0.62
1:R:158:TRP:HB3	1:R:173:CYS:CA	2.27	0.62
1:K:246:TYR:CD2	1:K:511:ARG:HB3	2.34	0.62
1:D:246:TYR:CD2	1:D:511:ARG:HB3	2.34	0.62
1:H:246:TYR:CD2	1:H:511:ARG:HB3	2.34	0.62
1:G:287:LEU:N	1:G:287:LEU:HD12	2.15	0.62
1:L:287:LEU:HD12	1:L:287:LEU:N	2.15	0.62
1:A:407:ALA:HB1	1:L:334:MSE:HE1	1.81	0.62
1:D:108:LYS:HD2	1:F:438:LEU:HD11	1.82	0.62
1:U:231:THR:HG21	1:U:249:ARG:HH11	1.64	0.62
1:C:144:ILE:HG12	1:C:447:TYR:HE1	1.63	0.62
1:C:161:ASN:HD22	1:C:161:ASN:C	2.03	0.62
1:F:35:PHE:HE2	1:F:324:LYS:HZ3	1.47	0.62

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:71:MSE:HE2	1:L:119:ILE:HD11	1.80	0.62
1:M:431:ALA:O	1:M:435:VAL:HG22	1.99	0.62
2:Z:53:MET:HG2	2:Z:67:TYR:CD1	2.34	0.62
1:P:15:PHE:HZ	1:P:283:CYS:SG	2.22	0.62
2:Y:34:LEU:O	2:Y:35:THR:HG22	2.00	0.62
1:T:231:THR:HG21	1:T:249:ARG:HH11	1.62	0.62
1:J:575:GLN:O	1:J:579:MSE:HG2	2.00	0.62
1:F:330:ARG:O	1:F:334:MSE:HB2	2.00	0.62
1:V:34:PHE:HE2	1:V:45:LEU:HG	1.64	0.62
1:W:37:ARG:HB3	1:W:37:ARG:HH21	1.65	0.62
1:V:210:PRO:HD2	1:V:211:TRP:CE3	2.35	0.62
1:A:287:LEU:HD12	1:A:287:LEU:N	2.15	0.62
1:C:287:LEU:N	1:C:287:LEU:HD12	2.15	0.62
1:I:12:LEU:O	1:I:16:ASP:HB2	1.99	0.62
1:J:12:LEU:O	1:J:16:ASP:HB2	1.99	0.62
1:N:276:VAL:HG23	1:N:293:ILE:HG23	1.81	0.62
1:F:191:TYR:HE1	1:F:278:LYS:HZ3	1.45	0.62
1:D:161:ASN:C	1:D:161:ASN:HD22	2.03	0.61
1:O:440:MSE:O	1:O:444:LEU:HD22	2.00	0.61
2:Y:53:MET:HG2	2:Y:67:TYR:CD1	2.34	0.61
2:Y:53:MET:O	2:Y:69:PHE:HE1	1.83	0.61
1:Q:138:THR:H	1:Q:143:VAL:HG22	1.63	0.61
1:S:444:LEU:C	1:S:446:THR:N	2.53	0.61
1:W:440:MSE:O	1:W:444:LEU:HD22	2.00	0.61
2:Z:34:LEU:O	2:Z:35:THR:HG22	2.00	0.61
1:R:334:MSE:SE	1:X:404:MSE:HE1	2.50	0.61
1:X:210:PRO:HD2	1:X:211:TRP:CE3	2.35	0.61
1:I:287:LEU:HD12	1:I:287:LEU:N	2.15	0.61
1:H:287:LEU:N	1:H:287:LEU:HD12	2.15	0.61
1:L:330:ARG:O	1:L:334:MSE:HB2	2.00	0.61
1:L:575:GLN:O	1:L:579:MSE:HG2	2.00	0.61
1:A:575:GLN:O	1:A:579:MSE:HG2	2.00	0.61
1:W:276:VAL:HG23	1:W:293:ILE:HG23	1.82	0.61
1:W:5:GLU:HG2	1:W:6:ASN:H	1.65	0.61
1:C:41:TRP:HE3	1:C:42:ASP:CA	2.14	0.61
1:C:47:GLN:OE1	1:C:47:GLN:N	2.30	0.61
1:H:48:TYR:O	1:H:49:THR:HB	1.98	0.61
1:J:158:TRP:CE3	1:J:173:CYS:SG	2.88	0.61
1:M:560:LEU:O	1:M:565:VAL:HG21	1.98	0.61
1:Q:34:PHE:HZ	1:Q:328:ARG:HH22	1.40	0.61
1:S:15:PHE:CE1	1:S:283:CYS:HA	2.35	0.61
1:T:15:PHE:HZ	1:T:283:CYS:SG	2.23	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:273:ARG:NH2	1:T:453:LEU:HD11	2.13	0.61
1:E:287:LEU:N	1:E:287:LEU:HD12	2.15	0.61
1:B:287:LEU:HD12	1:B:287:LEU:N	2.15	0.61
1:Q:287:LEU:HD12	1:Q:287:LEU:N	2.16	0.61
1:A:398:PRO:HB3	1:L:395:PRO:HD2	1.81	0.61
1:T:5:GLU:HG2	1:T:6:ASN:H	1.66	0.61
1:N:5:GLU:HG2	1:N:6:ASN:H	1.65	0.61
3:P:719:HOH:O	1:Q:430:VAL:CG1	2.47	0.61
1:T:94:LEU:HA	1:T:97:MSE:HE2	1.81	0.61
1:H:337:ASN:HD21	1:H:401:ASN:HD22	1.47	0.61
1:B:99:ARG:O	1:B:103:ARG:HG3	1.99	0.61
1:C:330:ARG:O	1:C:334:MSE:HB2	2.00	0.61
1:C:78:VAL:HG12	1:C:79:LEU:N	2.13	0.61
1:E:330:ARG:O	1:E:334:MSE:HB2	2.00	0.61
1:M:78:VAL:HG22	1:M:444:LEU:HD21	1.82	0.61
1:M:89:ASP:HA	1:N:561:ASP:HB2	1.82	0.61
1:N:440:MSE:O	1:N:444:LEU:HD22	1.99	0.61
1:N:444:LEU:C	1:N:446:THR:N	2.53	0.61
1:T:158:TRP:CE3	1:T:173:CYS:SG	2.87	0.61
1:V:128:LEU:HD12	1:V:446:THR:HG23	1.82	0.61
1:M:273:ARG:HH22	1:M:453:LEU:CD1	2.10	0.61
1:E:546:THR:CG2	1:E:547:PRO:HD3	2.27	0.61
1:U:210:PRO:HD2	1:U:211:TRP:CE3	2.36	0.61
1:B:575:GLN:O	1:B:579:MSE:HG2	2.00	0.61
1:R:5:GLU:HG2	1:R:6:ASN:H	1.65	0.61
1:F:41:TRP:HZ3	1:F:42:ASP:HB3	1.61	0.61
1:H:78:VAL:HG12	1:H:79:LEU:N	2.13	0.61
1:O:15:PHE:CE1	1:O:283:CYS:HA	2.35	0.61
1:T:34:PHE:HE2	1:T:45:LEU:HG	1.64	0.61
1:U:444:LEU:C	1:U:446:THR:N	2.52	0.61
1:N:273:ARG:NH2	1:N:453:LEU:HD11	2.14	0.61
1:L:246:TYR:CD2	1:L:511:ARG:HB3	2.34	0.61
1:I:575:GLN:O	1:I:579:MSE:HG2	2.00	0.61
1:I:337:ASN:HD21	1:I:401:ASN:HD22	1.47	0.61
1:B:48:TYR:O	1:B:49:THR:HB	1.98	0.61
1:G:161:ASN:HD22	1:G:161:ASN:C	2.03	0.61
1:G:35:PHE:HE1	1:G:321:ARG:HH11	1.46	0.61
1:H:158:TRP:CE3	1:H:173:CYS:SG	2.88	0.61
1:K:35:PHE:HE1	1:K:321:ARG:HH11	1.46	0.61
1:O:138:THR:H	1:O:143:VAL:HG22	1.66	0.61
1:O:78:VAL:HG22	1:O:444:LEU:HD21	1.83	0.61
1:R:37:ARG:NH2	1:R:41:TRP:HB3	2.15	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:34:PHE:HE2	1:R:45:LEU:HG	1.64	0.61
1:S:78:VAL:CG2	1:S:444:LEU:HD11	2.22	0.61
1:U:440:MSE:O	1:U:444:LEU:HD22	2.01	0.61
1:U:158:TRP:CH2	1:U:302:PRO:HG3	2.35	0.61
1:T:273:ARG:NH2	1:T:453:LEU:HD21	2.15	0.61
1:X:26:ARG:NH2	1:X:30:LYS:HD3	2.15	0.61
1:A:99:ARG:O	1:A:103:ARG:HG3	1.99	0.61
1:F:586:THR:N	1:F:587:PRO:HD3	2.16	0.61
1:E:586:THR:N	1:E:587:PRO:HD3	2.16	0.61
1:B:586:THR:N	1:B:587:PRO:HD3	2.16	0.61
1:F:337:ASN:HD21	1:F:401:ASN:HD22	1.47	0.61
1:A:337:ASN:HD21	1:A:401:ASN:HD22	1.47	0.61
1:B:161:ASN:C	1:B:161:ASN:HD22	2.03	0.61
1:D:330:ARG:O	1:D:334:MSE:HB2	2.00	0.61
1:H:330:ARG:O	1:H:334:MSE:HB2	2.00	0.61
1:K:161:ASN:HD22	1:K:161:ASN:C	2.03	0.61
1:P:440:MSE:O	1:P:444:LEU:HD22	2.00	0.61
1:Q:78:VAL:CG2	1:Q:444:LEU:HD11	2.23	0.61
1:Q:47:GLN:HG2	1:Q:48:TYR:H	1.66	0.61
1:R:12:LEU:O	1:R:16:ASP:HB2	2.00	0.61
1:W:78:VAL:CG2	1:W:444:LEU:HD11	2.21	0.61
1:N:15:PHE:CZ	1:N:283:CYS:HA	2.36	0.61
1:M:273:ARG:NH2	1:M:453:LEU:HD11	2.14	0.61
1:V:273:ARG:NH2	1:V:453:LEU:HD11	2.14	0.61
1:I:586:THR:N	1:I:587:PRO:HD3	2.16	0.61
1:D:586:THR:N	1:D:587:PRO:HD3	2.16	0.61
1:C:586:THR:N	1:C:587:PRO:HD3	2.16	0.61
1:L:586:THR:N	1:L:587:PRO:HD3	2.16	0.61
1:S:5:GLU:HG2	1:S:6:ASN:H	1.65	0.61
1:A:191:TYR:HE1	1:A:278:LYS:HZ3	1.48	0.61
1:B:337:ASN:HD21	1:B:401:ASN:HD22	1.47	0.61
1:K:395:PRO:HD2	1:L:398:PRO:HB3	1.83	0.61
1:E:575:GLN:O	1:E:579:MSE:HG2	2.00	0.61
1:K:575:GLN:O	1:K:579:MSE:HG2	2.00	0.61
1:I:330:ARG:O	1:I:334:MSE:HB2	2.00	0.61
1:J:182:ASN:ND2	1:K:171:ARG:HH21	1.98	0.61
1:J:41:TRP:HE3	1:J:42:ASP:CA	2.14	0.61
1:K:47:GLN:OE1	1:K:47:GLN:N	2.30	0.61
1:U:128:LEU:HD12	1:U:446:THR:HG23	1.82	0.61
1:T:15:PHE:CZ	1:T:283:CYS:HA	2.35	0.61
1:T:560:LEU:O	1:T:565:VAL:HG21	1.99	0.61
1:V:158:TRP:CE3	1:V:173:CYS:SG	2.86	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:210:PRO:HD2	1:Q:211:TRP:CE3	2.36	0.61
1:W:210:PRO:HD2	1:W:211:TRP:CE3	2.36	0.61
1:F:287:LEU:HD12	1:F:287:LEU:N	2.15	0.61
1:S:210:PRO:HD2	1:S:211:TRP:CE3	2.35	0.61
1:K:287:LEU:HD12	1:K:287:LEU:N	2.15	0.61
1:R:287:LEU:N	1:R:287:LEU:HD12	2.15	0.61
1:S:287:LEU:HD12	1:S:287:LEU:N	2.15	0.61
1:G:586:THR:N	1:G:587:PRO:HD3	2.16	0.61
1:U:5:GLU:HG2	1:U:6:ASN:H	1.65	0.61
1:M:5:GLU:HG2	1:M:6:ASN:H	1.66	0.61
1:E:161:ASN:HD22	1:E:161:ASN:C	2.03	0.61
1:H:41:TRP:HE3	1:H:42:ASP:CA	2.14	0.61
1:L:161:ASN:C	1:L:161:ASN:HD22	2.03	0.61
1:N:41:TRP:CE3	1:N:42:ASP:HB3	2.36	0.61
1:N:15:PHE:HZ	1:N:283:CYS:SG	2.18	0.61
1:V:273:ARG:NH2	1:V:453:LEU:HD21	2.16	0.61
1:R:158:TRP:CH2	1:R:302:PRO:HG3	2.36	0.61
1:X:273:ARG:NH2	1:X:453:LEU:HD11	2.13	0.61
1:D:337:ASN:HD21	1:D:401:ASN:HD22	1.47	0.61
1:O:5:GLU:HG2	1:O:6:ASN:H	1.65	0.61
1:P:564:GLY:HA2	1:Q:554:LEU:HD21	1.81	0.61
1:D:35:PHE:HE2	1:D:324:LYS:HZ3	1.48	0.61
1:O:128:LEU:HD12	1:O:446:THR:HG23	1.83	0.61
1:N:78:VAL:HG22	1:N:444:LEU:HD21	1.83	0.61
1:Q:444:LEU:C	1:Q:446:THR:N	2.53	0.61
1:V:440:MSE:O	1:V:444:LEU:HD22	2.00	0.61
1:M:15:PHE:CE1	1:M:283:CYS:HA	2.35	0.61
1:M:246:TYR:CD2	1:M:511:ARG:HB2	2.36	0.61
1:T:47:GLN:HG2	1:T:48:TYR:H	1.65	0.61
1:D:287:LEU:N	1:D:287:LEU:HD12	2.15	0.61
1:J:287:LEU:N	1:J:287:LEU:HD12	2.15	0.61
1:J:233:PHE:CE2	1:J:249:ARG:HD3	2.36	0.61
1:E:233:PHE:CE2	1:E:249:ARG:HD3	2.36	0.61
1:P:5:GLU:HG2	1:P:6:ASN:H	1.65	0.61
1:H:233:PHE:CE2	1:H:249:ARG:HD3	2.36	0.61
1:X:5:GLU:HG2	1:X:6:ASN:H	1.65	0.61
1:A:330:ARG:O	1:A:334:MSE:HB2	2.00	0.61
1:G:330:ARG:O	1:G:334:MSE:HB2	2.00	0.61
1:N:47:GLN:HG2	1:N:48:TYR:H	1.66	0.61
1:P:41:TRP:CE3	1:P:42:ASP:HB3	2.36	0.61
1:R:15:PHE:CZ	1:R:283:CYS:HA	2.36	0.61
1:V:15:PHE:CZ	1:V:283:CYS:HA	2.36	0.61

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:444:LEU:C	1:W:446:THR:N	2.54	0.61
1:X:34:PHE:HE2	1:X:45:LEU:HG	1.64	0.61
1:U:15:PHE:CE1	1:U:283:CYS:HA	2.36	0.61
1:S:379:GLU:O	1:S:380:ASN:HB2	2.01	0.61
1:M:128:LEU:HD12	1:M:446:THR:HG23	1.82	0.60
1:M:47:GLN:HG2	1:M:48:TYR:H	1.65	0.60
1:R:78:VAL:HG22	1:R:444:LEU:HD21	1.82	0.60
1:U:41:TRP:CE3	1:U:42:ASP:HB3	2.36	0.60
1:T:334:MSE:SE	1:W:404:MSE:HE1	2.51	0.60
1:M:210:PRO:HD2	1:M:211:TRP:CE3	2.36	0.60
1:X:287:LEU:HD12	1:X:287:LEU:N	2.16	0.60
1:H:575:GLN:O	1:H:579:MSE:HG2	2.00	0.60
1:N:390:ALA:CB	1:V:387:GLN:HB3	2.30	0.60
1:P:34:PHE:HE2	1:P:45:LEU:HG	1.65	0.60
1:T:37:ARG:NH2	1:T:41:TRP:HB3	2.15	0.60
1:T:41:TRP:CE3	1:T:42:ASP:HB3	2.37	0.60
1:V:165:MSE:HE3	1:V:304:PHE:HB2	1.82	0.60
1:B:234:ILE:CG1	1:B:267:ALA:HB3	2.31	0.60
1:A:234:ILE:CG1	1:A:267:ALA:HB3	2.32	0.60
1:L:234:ILE:CG1	1:L:267:ALA:HB3	2.32	0.60
1:R:210:PRO:HD2	1:R:211:TRP:CE3	2.36	0.60
1:P:210:PRO:HD2	1:P:211:TRP:CE3	2.36	0.60
1:O:237:ASP:H	1:O:243:PRO:HA	1.65	0.60
1:P:287:LEU:HD12	1:P:287:LEU:N	2.15	0.60
1:V:287:LEU:N	1:V:287:LEU:HD12	2.16	0.60
1:K:586:THR:N	1:K:587:PRO:HD3	2.16	0.60
1:H:586:THR:N	1:H:587:PRO:HD3	2.16	0.60
1:I:372:TYR:CE2	1:J:348:LYS:HB2	2.35	0.60
1:O:276:VAL:HG23	1:O:293:ILE:HG23	1.83	0.60
1:S:542:THR:HG21	1:U:556:TYR:OH	2.01	0.60
1:L:233:PHE:CE2	1:L:249:ARG:HD3	2.36	0.60
1:T:564:GLY:HA2	1:W:554:LEU:HD21	1.82	0.60
1:I:233:PHE:CE2	1:I:249:ARG:HD3	2.36	0.60
1:M:542:THR:HG21	1:N:556:TYR:OH	2.01	0.60
1:C:233:PHE:CE2	1:C:249:ARG:HD3	2.36	0.60
1:M:37:ARG:NH2	1:M:41:TRP:HB3	2.16	0.60
1:K:561:ASP:CB	1:L:89:ASP:HA	2.28	0.60
1:Q:37:ARG:NH2	1:Q:41:TRP:HB3	2.17	0.60
1:O:246:TYR:CD2	1:O:511:ARG:HB2	2.36	0.60
1:P:246:TYR:CD2	1:P:511:ARG:HB2	2.36	0.60
1:W:273:ARG:NH2	1:W:453:LEU:HD21	2.16	0.60
1:J:234:ILE:CG1	1:J:267:ALA:HB3	2.31	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:287:LEU:N	1:O:287:LEU:HD12	2.16	0.60
1:B:330:ARG:O	1:B:334:MSE:HB2	2.00	0.60
1:J:586:THR:N	1:J:587:PRO:HD3	2.16	0.60
1:S:276:VAL:HG23	1:S:293:ILE:HG23	1.83	0.60
1:V:276:VAL:HG23	1:V:293:ILE:HG23	1.83	0.60
1:C:154:SER:O	1:C:204:PRO:HB3	2.02	0.60
1:O:15:PHE:CZ	1:O:283:CYS:HA	2.36	0.60
1:Q:15:PHE:CZ	1:Q:283:CYS:HA	2.37	0.60
1:T:78:VAL:CG2	1:T:444:LEU:HD11	2.22	0.60
1:V:246:TYR:CD2	1:V:511:ARG:HB2	2.35	0.60
1:R:158:TRP:O	1:R:160:SER:N	2.34	0.60
1:P:273:ARG:NH2	1:P:453:LEU:HD11	2.14	0.60
1:T:577:ILE:HA	1:T:582:LYS:HB3	1.83	0.60
1:F:154:SER:O	1:F:204:PRO:HB3	2.02	0.60
1:G:154:SER:O	1:G:204:PRO:HB3	2.02	0.60
1:I:41:TRP:HE3	1:I:42:ASP:CA	2.14	0.60
1:M:440:MSE:O	1:M:444:LEU:HD22	2.01	0.60
1:R:78:VAL:HG11	1:R:444:LEU:HG	1.83	0.60
1:V:37:ARG:NH2	1:V:41:TRP:HB3	2.15	0.60
1:W:41:TRP:CE3	1:W:42:ASP:HB3	2.37	0.60
1:P:273:ARG:HH22	1:P:453:LEU:CD1	2.11	0.60
1:E:199:PRO:HB3	1:E:282:THR:HG22	1.84	0.60
1:K:330:ARG:O	1:K:334:MSE:HB2	2.00	0.60
1:A:586:THR:N	1:A:587:PRO:HD3	2.16	0.60
1:L:154:SER:O	1:L:204:PRO:HB3	2.02	0.60
1:M:276:VAL:HG23	1:M:293:ILE:HG23	1.82	0.60
1:F:575:GLN:O	1:F:579:MSE:HG2	2.00	0.60
1:D:575:GLN:O	1:D:579:MSE:HG2	2.00	0.60
1:B:233:PHE:CE2	1:B:249:ARG:HD3	2.36	0.60
1:B:154:SER:O	1:B:204:PRO:HB3	2.02	0.60
1:E:158:TRP:CE3	1:E:173:CYS:SG	2.88	0.60
1:H:161:ASN:HD22	1:H:161:ASN:C	2.03	0.60
1:H:154:SER:O	1:H:204:PRO:HB3	2.02	0.60
2:Z:53:MET:O	2:Z:69:PHE:HE1	1.83	0.60
1:Q:128:LEU:HD12	1:Q:446:THR:HG23	1.83	0.60
1:R:15:PHE:HZ	1:R:283:CYS:SG	2.24	0.60
1:S:47:GLN:HG2	1:S:48:TYR:H	1.66	0.60
1:T:78:VAL:HG22	1:T:444:LEU:HD21	1.84	0.60
1:X:37:ARG:NH2	1:X:41:TRP:HB3	2.17	0.60
1:X:440:MSE:O	1:X:444:LEU:HD22	2.02	0.60
1:S:246:TYR:CD2	1:S:511:ARG:HB2	2.36	0.60
1:W:47:GLN:HG2	1:W:48:TYR:H	1.67	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:567:MSE:SE	1:E:576:LEU:HD13	2.52	0.60
1:T:210:PRO:HD2	1:T:211:TRP:CE3	2.36	0.60
1:Q:236:GLN:CB	1:Q:265:LYS:HG2	2.32	0.60
1:T:236:GLN:CB	1:T:265:LYS:HG2	2.32	0.60
1:U:577:ILE:HA	1:U:582:LYS:HB3	1.84	0.60
1:O:5:GLU:HG2	1:O:6:ASN:N	2.16	0.60
1:J:598:GLN:HB2	1:J:601:GLN:HB2	1.84	0.60
1:N:379:GLU:O	1:N:380:ASN:HB2	2.02	0.60
1:D:233:PHE:CE2	1:D:249:ARG:HD3	2.36	0.60
1:A:395:PRO:HD2	1:B:398:PRO:HB3	1.84	0.60
1:C:575:GLN:O	1:C:579:MSE:HG2	2.00	0.60
1:A:154:SER:O	1:A:204:PRO:HB3	2.02	0.60
1:A:41:TRP:HE3	1:A:42:ASP:CA	2.14	0.60
1:G:41:TRP:HE3	1:G:42:ASP:CA	2.14	0.60
1:I:154:SER:O	1:I:204:PRO:HB3	2.02	0.60
1:J:161:ASN:C	1:J:161:ASN:HD22	2.03	0.60
1:S:34:PHE:HE2	1:S:45:LEU:HG	1.65	0.60
1:X:431:ALA:O	1:X:435:VAL:HG22	2.02	0.60
1:X:15:PHE:CE1	1:X:283:CYS:HA	2.36	0.60
1:F:234:ILE:CG1	1:F:267:ALA:HB3	2.32	0.60
1:N:210:PRO:HD2	1:N:211:TRP:CE3	2.35	0.60
1:F:199:PRO:HB3	1:F:282:THR:HG22	1.84	0.60
1:S:236:GLN:CB	1:S:265:LYS:HG2	2.32	0.60
1:G:108:LYS:HD2	1:H:438:LEU:HD11	1.82	0.60
1:N:398:PRO:HB3	1:V:395:PRO:HD2	1.84	0.60
1:A:233:PHE:CE2	1:A:249:ARG:HD3	2.36	0.60
1:C:598:GLN:HB2	1:C:601:GLN:HB2	1.84	0.60
1:G:598:GLN:HB2	1:G:601:GLN:HB2	1.84	0.60
1:D:154:SER:O	1:D:204:PRO:HB3	2.02	0.60
1:O:210:PRO:HD2	1:O:211:TRP:CE3	2.36	0.60
1:N:236:GLN:CB	1:N:265:LYS:HG2	2.32	0.60
1:X:237:ASP:H	1:X:243:PRO:HA	1.67	0.60
1:C:577:ILE:HA	1:C:582:LYS:HB3	1.84	0.60
1:S:577:ILE:HA	1:S:582:LYS:HB3	1.84	0.60
1:U:5:GLU:HG2	1:U:6:ASN:N	2.17	0.60
1:A:89:ASP:HA	1:L:561:ASP:CB	2.25	0.60
1:P:165:MSE:HE3	1:P:304:PHE:HB2	1.84	0.60
1:P:37:ARG:NH2	1:P:41:TRP:HB3	2.17	0.60
1:R:26:ARG:NH2	1:R:30:LYS:HD3	2.16	0.60
1:V:47:GLN:HG2	1:V:48:TYR:H	1.67	0.60
1:X:444:LEU:C	1:X:446:THR:N	2.53	0.60
1:S:158:TRP:CE3	1:S:173:CYS:SG	2.87	0.60

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:246:TYR:CD2	1:N:511:ARG:HB2	2.37	0.60
1:P:273:ARG:NH2	1:P:453:LEU:HD21	2.16	0.60
1:J:199:PRO:HB3	1:J:282:THR:HG22	1.84	0.60
1:U:236:GLN:CB	1:U:265:LYS:HG2	2.32	0.60
1:W:5:GLU:HG2	1:W:6:ASN:N	2.17	0.60
1:N:390:ALA:HB2	1:V:387:GLN:HB2	1.84	0.60
1:X:154:SER:O	1:X:204:PRO:HB3	2.02	0.60
1:G:575:GLN:O	1:G:579:MSE:HG2	2.00	0.60
1:G:337:ASN:HD21	1:G:401:ASN:HD22	1.47	0.60
1:U:276:VAL:HG23	1:U:293:ILE:HG23	1.83	0.60
1:K:154:SER:O	1:K:204:PRO:HB3	2.02	0.60
1:B:54:ARG:HB2	2:Z:146:GLY:HA3	1.83	0.60
1:O:41:TRP:CE3	1:O:42:ASP:HB3	2.37	0.60
1:O:47:GLN:HG2	1:O:48:TYR:H	1.67	0.60
1:Q:41:TRP:CE3	1:Q:42:ASP:HB3	2.37	0.60
1:R:24:GLU:C	1:R:26:ARG:N	2.55	0.60
1:S:41:TRP:CE3	1:S:42:ASP:HB3	2.36	0.60
1:O:158:TRP:CE3	1:O:173:CYS:SG	2.87	0.60
1:U:246:TYR:CD2	1:U:511:ARG:HB2	2.36	0.60
1:I:199:PRO:HB3	1:I:282:THR:HG22	1.84	0.60
1:M:287:LEU:N	1:M:287:LEU:HD12	2.16	0.60
1:K:598:GLN:HB2	1:K:601:GLN:HB2	1.84	0.60
2:Y:137:TYR:CD1	2:Y:141:MET:HG2	2.37	0.60
1:F:233:PHE:CE2	1:F:249:ARG:HD3	2.36	0.60
1:V:5:GLU:HG2	1:V:6:ASN:N	2.17	0.60
1:A:161:ASN:HD22	1:A:161:ASN:C	2.03	0.59
1:B:444:LEU:O	1:B:448:VAL:HG23	2.02	0.59
1:J:330:ARG:O	1:J:334:MSE:HB2	2.00	0.59
1:L:41:TRP:HE3	1:L:42:ASP:CA	2.14	0.59
1:S:37:ARG:NH2	1:S:41:TRP:HB3	2.16	0.59
1:S:560:LEU:HD22	1:T:82:PRO:HG2	1.84	0.59
1:V:138:THR:H	1:V:143:VAL:HG22	1.67	0.59
1:M:15:PHE:CZ	1:M:283:CYS:HA	2.37	0.59
1:P:15:PHE:HZ	1:P:283:CYS:HG	1.49	0.59
1:V:273:ARG:HH22	1:V:453:LEU:HD21	1.67	0.59
1:N:158:TRP:CE3	1:N:173:CYS:SG	2.86	0.59
1:D:234:ILE:CG1	1:D:267:ALA:HB3	2.32	0.59
1:C:199:PRO:HB3	1:C:282:THR:HG22	1.84	0.59
1:K:199:PRO:HB3	1:K:282:THR:HG22	1.84	0.59
1:P:554:LEU:HD12	1:P:557:PHE:HD2	1.66	0.59
1:P:5:GLU:HG2	1:P:6:ASN:N	2.17	0.59
1:P:237:ASP:H	1:P:243:PRO:HA	1.65	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:598:GLN:HB2	1:L:601:GLN:HB2	1.84	0.59
1:E:598:GLN:HB2	1:E:601:GLN:HB2	1.84	0.59
1:B:598:GLN:HB2	1:B:601:GLN:HB2	1.84	0.59
1:G:233:PHE:CE2	1:G:249:ARG:HD3	2.36	0.59
1:B:26:ARG:NH2	1:B:30:LYS:HD3	2.17	0.59
1:E:154:SER:O	1:E:204:PRO:HB3	2.02	0.59
1:O:15:PHE:HZ	1:O:283:CYS:SG	2.25	0.59
1:N:24:GLU:C	1:N:26:ARG:N	2.56	0.59
1:S:78:VAL:HG22	1:S:444:LEU:HD21	1.84	0.59
1:X:78:VAL:HG11	1:X:444:LEU:HG	1.83	0.59
1:I:234:ILE:CG1	1:I:267:ALA:HB3	2.32	0.59
1:L:199:PRO:HB3	1:L:282:THR:HG22	1.84	0.59
1:U:237:ASP:H	1:U:243:PRO:HA	1.66	0.59
1:W:15:PHE:CZ	1:W:283:CYS:HA	2.36	0.59
1:T:5:GLU:HG2	1:T:6:ASN:N	2.17	0.59
1:X:5:GLU:HG2	1:X:6:ASN:N	2.17	0.59
1:K:233:PHE:CE2	1:K:249:ARG:HD3	2.36	0.59
1:Q:5:GLU:HG2	1:Q:6:ASN:H	1.65	0.59
1:J:154:SER:O	1:J:204:PRO:HB3	2.02	0.59
1:M:165:MSE:HE3	1:M:304:PHE:HB2	1.84	0.59
2:Y:28:VAL:HG22	2:Y:93:PHE:O	2.02	0.59
1:X:128:LEU:HD12	1:X:446:THR:HG23	1.83	0.59
1:H:234:ILE:CG1	1:H:267:ALA:HB3	2.32	0.59
1:O:236:GLN:CB	1:O:265:LYS:HG2	2.32	0.59
1:U:287:LEU:HD12	1:U:287:LEU:N	2.16	0.59
1:S:5:GLU:HG2	1:S:6:ASN:N	2.17	0.59
1:Q:5:GLU:HG2	1:Q:6:ASN:N	2.17	0.59
1:F:41:TRP:HE3	1:F:42:ASP:CA	2.14	0.59
1:I:444:LEU:O	1:I:448:VAL:HG23	2.03	0.59
2:Z:28:VAL:HG22	2:Z:93:PHE:O	2.02	0.59
1:P:78:VAL:HG22	1:P:444:LEU:HD21	1.85	0.59
1:W:78:VAL:HG22	1:W:444:LEU:HD21	1.84	0.59
1:S:15:PHE:CZ	1:S:283:CYS:HA	2.38	0.59
1:W:158:TRP:CH2	1:W:302:PRO:HG3	2.36	0.59
1:G:234:ILE:CG1	1:G:267:ALA:HB3	2.32	0.59
1:U:273:ARG:NH2	1:U:453:LEU:HD11	2.11	0.59
1:C:234:ILE:CG1	1:C:267:ALA:HB3	2.32	0.59
1:E:234:ILE:CG1	1:E:267:ALA:HB3	2.32	0.59
1:E:236:GLN:CB	1:E:265:LYS:HZ3	2.15	0.59
1:E:577:ILE:HA	1:E:582:LYS:HB3	1.84	0.59
1:N:5:GLU:HG2	1:N:6:ASN:N	2.17	0.59
1:N:390:ALA:HB2	1:V:387:GLN:CB	2.32	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:26:ARG:NH2	1:A:30:LYS:HD3	2.17	0.59
1:D:26:ARG:NH2	1:D:30:LYS:HD3	2.17	0.59
1:J:444:LEU:O	1:J:448:VAL:HG23	2.02	0.59
1:K:26:ARG:NH2	1:K:30:LYS:HD3	2.17	0.59
1:M:138:THR:H	1:M:143:VAL:HG22	1.67	0.59
1:O:431:ALA:O	1:O:435:VAL:HG22	2.01	0.59
1:S:440:MSE:O	1:S:444:LEU:HD22	2.02	0.59
1:W:78:VAL:HG12	1:W:79:LEU:H	1.67	0.59
1:M:158:TRP:CE3	1:M:173:CYS:SG	2.87	0.59
1:W:273:ARG:HH22	1:W:453:LEU:HD21	1.68	0.59
1:J:26:ARG:NH2	1:J:30:LYS:HD3	2.18	0.59
1:S:273:ARG:NH2	1:S:453:LEU:HD11	2.13	0.59
1:O:273:ARG:NH2	1:O:453:LEU:HD11	2.14	0.59
1:H:264:ILE:O	1:H:265:LYS:HD3	2.03	0.59
1:O:564:GLY:O	1:P:554:LEU:HD21	2.02	0.59
1:R:5:GLU:HG2	1:R:6:ASN:N	2.17	0.59
1:T:379:GLU:O	1:T:380:ASN:HB2	2.03	0.59
1:W:237:ASP:H	1:W:243:PRO:HA	1.67	0.59
1:V:554:LEU:HD21	1:W:564:GLY:HA2	1.84	0.59
1:C:26:ARG:NH2	1:C:30:LYS:HD3	2.17	0.59
1:C:444:LEU:O	1:C:448:VAL:HG23	2.03	0.59
1:E:444:LEU:O	1:E:448:VAL:HG23	2.03	0.59
1:U:138:THR:H	1:U:143:VAL:HG22	1.68	0.59
1:U:15:PHE:CZ	1:U:283:CYS:HA	2.38	0.59
1:M:158:TRP:CH2	1:M:302:PRO:HG3	2.38	0.59
1:Q:273:ARG:NH2	1:Q:453:LEU:HD21	2.18	0.59
1:N:287:LEU:HD12	1:N:287:LEU:N	2.16	0.59
1:F:577:ILE:HA	1:F:582:LYS:HB3	1.84	0.59
1:H:577:ILE:HA	1:H:582:LYS:HB3	1.84	0.59
1:Q:99:ARG:O	1:Q:103:ARG:HG3	2.02	0.59
2:Z:137:TYR:CD1	2:Z:141:MET:HG2	2.37	0.59
1:H:598:GLN:HB2	1:H:601:GLN:HB2	1.84	0.59
1:L:384:LEU:O	1:L:386:THR:N	2.36	0.59
1:B:158:TRP:CE3	1:B:173:CYS:SG	2.88	0.59
1:D:444:LEU:O	1:D:448:VAL:HG23	2.03	0.59
1:I:26:ARG:NH2	1:I:30:LYS:HD3	2.17	0.59
1:T:138:THR:H	1:T:143:VAL:HG22	1.67	0.59
1:U:158:TRP:CE3	1:U:173:CYS:SG	2.86	0.59
1:K:234:ILE:CG1	1:K:267:ALA:HB3	2.32	0.59
1:B:264:ILE:O	1:B:265:LYS:HD3	2.03	0.59
1:D:236:GLN:CB	1:D:265:LYS:HZ3	2.15	0.59
1:N:273:ARG:NH2	1:N:453:LEU:HD21	2.18	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:199:PRO:HB3	1:D:282:THR:HG22	1.84	0.59
1:P:236:GLN:CB	1:P:265:LYS:HG2	2.32	0.59
1:A:577:ILE:HA	1:A:582:LYS:HB3	1.84	0.59
1:M:5:GLU:HG2	1:M:6:ASN:N	2.17	0.59
1:N:390:ALA:CB	1:V:387:GLN:CB	2.80	0.59
1:P:86:ALA:HB2	1:P:515:GLU:HG3	1.85	0.59
1:S:237:ASP:H	1:S:243:PRO:HA	1.66	0.59
1:E:191:TYR:HE1	1:E:278:LYS:HZ3	1.50	0.59
1:E:384:LEU:H	1:E:384:LEU:HD22	1.68	0.59
1:F:384:LEU:H	1:F:384:LEU:HD22	1.68	0.59
1:D:158:TRP:O	1:D:160:SER:N	2.36	0.59
1:E:34:PHE:HZ	1:E:328:ARG:HH22	0.80	0.59
1:H:158:TRP:O	1:H:160:SER:N	2.36	0.59
1:H:26:ARG:NH2	1:H:30:LYS:HD3	2.17	0.59
1:H:334:MSE:SE	1:I:404:MSE:HE1	2.53	0.59
1:O:24:GLU:C	1:O:26:ARG:N	2.56	0.59
1:N:431:ALA:O	1:N:435:VAL:HG22	2.03	0.59
1:R:41:TRP:CE3	1:R:42:ASP:HB3	2.37	0.59
1:S:89:ASP:HA	1:U:561:ASP:HB2	1.85	0.59
1:U:78:VAL:HG22	1:U:444:LEU:HD21	1.84	0.59
1:X:41:TRP:CE3	1:X:42:ASP:HB3	2.36	0.59
2:Y:42:MET:HE3	2:Y:78:GLU:OE1	2.03	0.59
1:U:15:PHE:HZ	1:U:283:CYS:SG	2.25	0.59
1:M:158:TRP:HB3	1:M:173:CYS:CA	2.28	0.59
1:O:273:ARG:NH2	1:O:453:LEU:HD21	2.17	0.59
1:K:264:ILE:O	1:K:265:LYS:HD3	2.03	0.59
1:X:236:GLN:CB	1:X:265:LYS:HG2	2.32	0.59
1:V:5:GLU:HG2	1:V:6:ASN:H	1.65	0.59
1:G:556:TYR:OH	1:H:542:THR:HG21	2.03	0.59
1:J:384:LEU:O	1:J:386:THR:N	2.36	0.59
1:K:384:LEU:O	1:K:386:THR:N	2.36	0.59
1:R:554:LEU:HD12	1:R:557:PHE:HD2	1.68	0.59
1:B:34:PHE:HE1	1:B:324:LYS:HZ2	1.44	0.59
1:K:49:THR:CG2	1:K:49:THR:O	2.51	0.59
1:M:561:ASP:OD2	1:O:92:ASP:HB3	2.02	0.59
1:M:82:PRO:HG2	1:N:560:LEU:HD22	1.84	0.59
1:N:165:MSE:HE3	1:N:304:PHE:HB2	1.85	0.59
1:W:246:TYR:CD2	1:W:511:ARG:HB2	2.38	0.59
1:Q:237:ASP:H	1:Q:243:PRO:HA	1.67	0.59
1:V:236:GLN:CB	1:V:265:LYS:HG2	2.32	0.59
1:L:384:LEU:HD22	1:L:384:LEU:H	1.68	0.59
1:P:379:GLU:O	1:P:380:ASN:HB2	2.03	0.59

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:384:LEU:O	1:D:386:THR:N	2.36	0.59
1:A:49:THR:O	1:A:49:THR:CG2	2.51	0.59
1:C:158:TRP:O	1:C:160:SER:N	2.36	0.59
1:E:173:CYS:SG	1:E:298:ILE:HD13	2.43	0.59
1:D:92:ASP:HB3	1:E:561:ASP:OD2	2.03	0.59
1:F:115:VAL:HA	1:F:118:GLN:HB3	1.85	0.59
1:G:26:ARG:NH2	1:G:30:LYS:HD3	2.17	0.59
1:I:158:TRP:O	1:I:160:SER:N	2.36	0.59
1:J:49:THR:CG2	1:J:49:THR:O	2.51	0.59
1:K:50:THR:HG21	1:K:54:ARG:NH2	2.18	0.59
1:R:128:LEU:HD12	1:R:446:THR:HG23	1.85	0.59
1:U:24:GLU:C	1:U:26:ARG:N	2.56	0.59
1:V:41:TRP:CE3	1:V:42:ASP:HB3	2.38	0.59
1:Q:246:TYR:CD2	1:Q:511:ARG:HB2	2.36	0.59
1:M:236:GLN:CB	1:M:265:LYS:HG2	2.32	0.59
1:G:384:LEU:O	1:G:386:THR:N	2.36	0.59
1:A:384:LEU:O	1:A:386:THR:N	2.36	0.59
3:O:719:HOH:O	1:P:430:VAL:CG1	2.51	0.59
1:H:384:LEU:O	1:H:386:THR:N	2.36	0.59
1:V:390:ALA:HB2	1:W:387:GLN:HB2	1.83	0.59
1:U:379:GLU:O	1:U:380:ASN:HB2	2.03	0.59
1:D:598:GLN:HB2	1:D:601:GLN:HB2	1.84	0.59
1:E:26:ARG:NH2	1:E:30:LYS:HD3	2.17	0.58
1:G:173:CYS:SG	1:G:298:ILE:HD13	2.43	0.58
1:H:444:LEU:O	1:H:448:VAL:HG23	2.03	0.58
1:J:50:THR:HG21	1:J:54:ARG:NH2	2.18	0.58
1:O:78:VAL:CG2	1:O:444:LEU:HD11	2.23	0.58
1:T:444:LEU:C	1:T:446:THR:N	2.55	0.58
1:X:246:TYR:CD2	1:X:511:ARG:HB2	2.36	0.58
1:F:264:ILE:O	1:F:265:LYS:HD3	2.03	0.58
1:S:554:LEU:HD12	1:S:557:PHE:HD2	1.68	0.58
1:L:264:ILE:O	1:L:265:LYS:HD3	2.03	0.58
1:W:24:GLU:C	1:W:26:ARG:N	2.56	0.58
1:M:199:PRO:HB3	1:M:282:THR:HG22	1.85	0.58
1:D:577:ILE:HA	1:D:582:LYS:HB3	1.84	0.58
1:K:384:LEU:HD22	1:K:384:LEU:H	1.68	0.58
1:B:158:TRP:O	1:B:160:SER:N	2.36	0.58
1:F:158:TRP:O	1:F:160:SER:N	2.36	0.58
1:F:444:LEU:O	1:F:448:VAL:HG23	2.03	0.58
1:G:158:TRP:O	1:G:160:SER:N	2.36	0.58
1:J:115:VAL:HA	1:J:118:GLN:HB3	1.85	0.58
1:J:158:TRP:O	1:J:160:SER:N	2.36	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:26:ARG:NH2	1:L:30:LYS:HD3	2.17	0.58
1:O:444:LEU:C	1:O:446:THR:N	2.55	0.58
1:Q:440:MSE:O	1:Q:444:LEU:HD22	2.03	0.58
1:A:563:LYS:HD3	1:B:557:PHE:CE2	2.38	0.58
1:T:273:ARG:HH22	1:T:453:LEU:HD21	1.66	0.58
1:P:273:ARG:HH22	1:P:453:LEU:HD21	1.66	0.58
1:B:577:ILE:HA	1:B:582:LYS:HB3	1.84	0.58
1:A:438:LEU:HD11	1:L:108:LYS:HD2	1.85	0.58
1:N:586:THR:N	1:N:587:PRO:HD3	2.18	0.58
1:A:598:GLN:HB2	1:A:601:GLN:HB2	1.84	0.58
1:O:379:GLU:O	1:O:380:ASN:HB2	2.03	0.58
1:I:384:LEU:HD22	1:I:384:LEU:H	1.68	0.58
1:I:384:LEU:O	1:I:386:THR:N	2.36	0.58
1:P:276:VAL:HG23	1:P:293:ILE:HG23	1.85	0.58
1:I:598:GLN:HB2	1:I:601:GLN:HB2	1.84	0.58
1:A:158:TRP:O	1:A:160:SER:N	2.36	0.58
1:F:26:ARG:NH2	1:F:30:LYS:HD3	2.17	0.58
1:I:49:THR:O	1:I:49:THR:CG2	2.51	0.58
1:K:158:TRP:O	1:K:160:SER:N	2.36	0.58
1:K:41:TRP:HE3	1:K:42:ASP:CA	2.14	0.58
1:R:136:SER:HB3	1:U:325:ASP:OD2	57.05	0.58
1:X:78:VAL:HG22	1:X:444:LEU:HD21	1.85	0.58
1:V:158:TRP:O	1:V:160:SER:N	2.36	0.58
1:D:264:ILE:O	1:D:265:LYS:HD3	2.03	0.58
1:T:554:LEU:HD12	1:T:557:PHE:HD2	1.69	0.58
1:B:199:PRO:HB3	1:B:282:THR:HG22	1.84	0.58
1:X:24:GLU:C	1:X:26:ARG:N	2.55	0.58
1:E:384:LEU:O	1:E:386:THR:N	2.36	0.58
1:J:384:LEU:H	1:J:384:LEU:HD22	1.68	0.58
1:G:389:LEU:HD12	1:G:389:LEU:H	1.68	0.58
1:F:598:GLN:HB2	1:F:601:GLN:HB2	1.84	0.58
1:P:99:ARG:O	1:P:103:ARG:HG3	2.04	0.58
1:U:430:VAL:CG1	3:X:719:HOH:O	2.51	0.58
1:D:173:CYS:SG	1:D:298:ILE:HD13	2.43	0.58
1:E:50:THR:HG21	1:E:54:ARG:NH2	2.18	0.58
1:L:158:TRP:O	1:L:160:SER:N	2.36	0.58
1:M:41:TRP:CE3	1:M:42:ASP:HB3	2.38	0.58
1:L:444:LEU:O	1:L:448:VAL:HG23	2.03	0.58
1:Q:78:VAL:HG11	1:Q:444:LEU:HG	1.84	0.58
1:T:431:ALA:O	1:T:435:VAL:HG22	2.03	0.58
1:X:47:GLN:HG2	1:X:48:TYR:H	1.67	0.58
1:R:237:ASP:H	1:R:243:PRO:HA	1.68	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:577:ILE:HA	1:G:582:LYS:HB3	1.84	0.58
1:O:577:ILE:HA	1:O:582:LYS:HB3	1.85	0.58
1:K:276:VAL:HG23	1:K:293:ILE:CG2	2.34	0.58
1:J:276:VAL:HG23	1:J:293:ILE:CG2	2.34	0.58
1:C:276:VAL:HG23	1:C:293:ILE:CG2	2.34	0.58
1:Q:554:LEU:HD12	1:Q:557:PHE:HD2	1.69	0.58
1:L:389:LEU:H	1:L:389:LEU:HD12	1.68	0.58
1:H:384:LEU:HD22	1:H:384:LEU:H	1.68	0.58
1:I:389:LEU:HD12	1:I:389:LEU:H	1.68	0.58
1:T:276:VAL:HG23	1:T:293:ILE:HG23	1.85	0.58
1:M:237:ASP:H	1:M:243:PRO:HA	1.68	0.58
1:M:86:ALA:HB2	1:M:515:GLU:HG3	1.85	0.58
1:D:50:THR:HG21	1:D:54:ARG:NH2	2.18	0.58
1:L:115:VAL:HA	1:L:118:GLN:HB3	1.86	0.58
1:L:49:THR:CG2	1:L:49:THR:O	2.51	0.58
1:P:138:THR:H	1:P:143:VAL:HG22	1.67	0.58
1:S:128:LEU:HD12	1:S:446:THR:HG23	1.84	0.58
1:H:199:PRO:HB3	1:H:282:THR:HG22	1.84	0.58
1:J:577:ILE:HA	1:J:582:LYS:HB3	1.84	0.58
1:R:94:LEU:HA	1:R:97:MSE:CE	2.34	0.58
1:L:276:VAL:HG23	1:L:293:ILE:CG2	2.34	0.58
1:E:276:VAL:HG23	1:E:293:ILE:CG2	2.34	0.58
1:A:276:VAL:HG23	1:A:293:ILE:CG2	2.34	0.58
1:S:586:THR:N	1:S:587:PRO:HD3	2.19	0.58
1:F:384:LEU:O	1:F:386:THR:N	2.36	0.58
1:G:384:LEU:H	1:G:384:LEU:HD22	1.68	0.58
1:A:444:LEU:O	1:A:448:VAL:HG23	2.02	0.58
1:B:173:CYS:SG	1:B:298:ILE:HD13	2.43	0.58
1:B:50:THR:HG21	1:B:54:ARG:NH2	2.18	0.58
1:C:334:MSE:SE	1:E:404:MSE:HE1	2.53	0.58
1:C:47:GLN:CD	1:C:47:GLN:O	2.42	0.58
1:E:115:VAL:HA	1:E:118:GLN:HB3	1.86	0.58
1:F:158:TRP:CE3	1:F:173:CYS:SG	2.88	0.58
1:G:444:LEU:O	1:G:448:VAL:HG23	2.02	0.58
1:G:49:THR:CG2	1:G:49:THR:O	2.51	0.58
1:I:158:TRP:CE3	1:I:173:CYS:SG	2.88	0.58
1:J:173:CYS:SG	1:J:298:ILE:HD13	2.43	0.58
2:Y:28:VAL:HG11	2:Y:97:ALA:N	2.19	0.58
1:G:14:ARG:HH11	1:G:17:ALA:CB	2.17	0.58
1:R:246:TYR:CD2	1:R:511:ARG:HB2	2.38	0.58
1:S:273:ARG:NH2	1:S:453:LEU:HD21	2.19	0.58
1:N:273:ARG:HH22	1:N:453:LEU:HD21	1.68	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:199:PRO:HB3	1:V:282:THR:HG22	1.85	0.58
1:W:577:ILE:HA	1:W:582:LYS:HB3	1.84	0.58
1:M:577:ILE:HA	1:M:582:LYS:HB3	1.85	0.58
1:H:276:VAL:HG23	1:H:293:ILE:CG2	2.34	0.58
1:F:389:LEU:H	1:F:389:LEU:HD12	1.68	0.58
1:S:556:TYR:OH	1:T:542:THR:HG21	2.03	0.58
1:B:384:LEU:HD22	1:B:384:LEU:H	1.68	0.58
1:T:237:ASP:H	1:T:243:PRO:HA	1.68	0.58
1:R:99:ARG:O	1:R:103:ARG:HG3	2.03	0.58
1:C:115:VAL:HA	1:C:118:GLN:HB3	1.86	0.58
1:E:118:GLN:NE2	1:E:303:VAL:HB	2.19	0.58
1:F:173:CYS:SG	1:F:298:ILE:HD13	2.43	0.58
1:I:173:CYS:SG	1:I:298:ILE:HD13	2.43	0.58
1:K:173:CYS:SG	1:K:298:ILE:HD13	2.43	0.58
1:W:138:THR:H	1:W:143:VAL:HG22	1.69	0.58
1:I:14:ARG:HH11	1:I:17:ALA:CB	2.17	0.58
1:V:404:MSE:HE1	1:W:334:MSE:SE	2.52	0.58
1:J:248:LYS:NZ	1:J:513:ARG:HH12	2.02	0.58
1:J:264:ILE:O	1:J:265:LYS:HD3	2.03	0.58
1:G:264:ILE:O	1:G:265:LYS:HD3	2.03	0.58
1:A:264:ILE:O	1:A:265:LYS:HD3	2.03	0.58
1:I:264:ILE:O	1:I:265:LYS:HD3	2.03	0.58
1:V:577:ILE:HA	1:V:582:LYS:HB3	1.85	0.58
1:X:554:LEU:HD12	1:X:557:PHE:HD2	1.68	0.58
1:P:66:LYS:HZ3	1:P:420:VAL:HG11	1.67	0.58
3:Q:719:HOH:O	1:R:430:VAL:CG1	2.50	0.58
1:N:237:ASP:H	1:N:243:PRO:HA	1.67	0.58
1:C:118:GLN:NE2	1:C:303:VAL:HB	2.19	0.58
1:B:182:ASN:HD22	1:C:171:ARG:HH21	1.50	0.58
1:E:47:GLN:O	1:E:47:GLN:CD	2.42	0.58
1:K:444:LEU:O	1:K:448:VAL:HG23	2.02	0.58
1:Q:24:GLU:C	1:Q:26:ARG:N	2.57	0.58
1:V:444:LEU:C	1:V:446:THR:N	2.55	0.58
1:D:248:LYS:NZ	1:D:513:ARG:HH12	2.02	0.58
1:L:577:ILE:HA	1:L:582:LYS:HB3	1.84	0.58
1:K:577:ILE:HA	1:K:582:LYS:HB3	1.84	0.58
1:O:199:PRO:HB3	1:O:282:THR:HG22	1.86	0.58
1:I:577:ILE:HA	1:I:582:LYS:HB3	1.84	0.58
1:Q:199:PRO:HB3	1:Q:282:THR:HG22	1.86	0.58
1:U:554:LEU:HD12	1:U:557:PHE:HD2	1.69	0.58
1:F:276:VAL:HG23	1:F:293:ILE:CG2	2.34	0.58
1:G:276:VAL:HG23	1:G:293:ILE:CG2	2.34	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:276:VAL:HG23	1:B:293:ILE:CG2	2.34	0.58
1:Q:586:THR:N	1:Q:587:PRO:HD3	2.19	0.58
1:X:586:THR:N	1:X:587:PRO:HD3	2.19	0.58
1:K:389:LEU:H	1:K:389:LEU:HD12	1.68	0.58
1:C:384:LEU:HD22	1:C:384:LEU:H	1.68	0.58
1:C:384:LEU:O	1:C:386:THR:N	2.36	0.58
1:K:372:TYR:CE2	1:L:348:LYS:HB2	2.39	0.58
1:N:231:THR:HG21	1:N:249:ARG:HH11	1.69	0.58
1:V:237:ASP:H	1:V:243:PRO:HA	1.68	0.58
1:A:118:GLN:NE2	1:A:303:VAL:HB	2.19	0.58
1:A:47:GLN:CD	1:A:47:GLN:O	2.42	0.58
1:A:54:ARG:HB2	2:Y:146:GLY:HA3	1.84	0.58
1:A:50:THR:HG21	1:A:54:ARG:NH2	2.18	0.58
1:C:182:ASN:HD22	1:E:171:ARG:HH21	1.51	0.58
1:D:118:GLN:NE2	1:D:303:VAL:HB	2.19	0.58
1:D:41:TRP:HE3	1:D:42:ASP:CA	2.14	0.58
1:F:50:THR:HG21	1:F:54:ARG:NH2	2.18	0.58
1:G:334:MSE:HE3	1:H:404:MSE:CE	2.34	0.58
1:G:47:GLN:O	1:G:47:GLN:CD	2.42	0.58
1:H:173:CYS:SG	1:H:298:ILE:HD13	2.43	0.58
1:J:158:TRP:H	1:J:158:TRP:HD1	1.52	0.58
1:K:47:GLN:O	1:K:47:GLN:CD	2.42	0.58
1:A:89:ASP:CA	1:L:561:ASP:HB2	2.30	0.58
1:S:24:GLU:C	1:S:26:ARG:N	2.56	0.58
1:X:158:TRP:O	1:X:160:SER:N	2.37	0.58
1:Q:273:ARG:HH22	1:Q:453:LEU:HD21	1.69	0.58
1:C:248:LYS:NZ	1:C:513:ARG:HH12	2.02	0.58
1:E:248:LYS:NZ	1:E:513:ARG:HH12	2.02	0.58
1:M:586:THR:N	1:M:587:PRO:HD3	2.19	0.58
1:T:586:THR:N	1:T:587:PRO:HD3	2.19	0.58
1:D:389:LEU:H	1:D:389:LEU:HD12	1.68	0.58
1:N:554:LEU:HD12	1:N:557:PHE:HD2	1.69	0.58
1:M:95:MSE:HB3	1:M:527:MSE:HE1	1.85	0.58
1:V:154:SER:O	1:V:204:PRO:HB3	2.03	0.58
1:Q:379:GLU:O	1:Q:380:ASN:HB2	2.03	0.58
1:A:348:LYS:HB2	1:L:372:TYR:CE2	2.39	0.58
1:M:379:GLU:O	1:M:380:ASN:HB2	2.04	0.58
1:A:173:CYS:SG	1:A:298:ILE:HD13	2.43	0.58
1:A:34:PHE:HZ	1:A:328:ARG:HH22	0.80	0.58
1:B:158:TRP:HD1	1:B:158:TRP:H	1.52	0.58
1:C:49:THR:O	1:C:49:THR:CG2	2.51	0.58
1:E:158:TRP:O	1:E:160:SER:N	2.36	0.58

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:158:TRP:H	1:F:158:TRP:HD1	1.52	0.58
1:F:47:GLN:CD	1:F:47:GLN:O	2.42	0.58
1:F:49:THR:CG2	1:F:49:THR:O	2.51	0.58
1:H:334:MSE:HE1	1:I:407:ALA:HB1	1.86	0.58
1:I:50:THR:HG21	1:I:54:ARG:NH2	2.18	0.58
1:L:173:CYS:SG	1:L:298:ILE:HD13	2.43	0.58
1:L:50:THR:HG21	1:L:54:ARG:NH2	2.18	0.58
1:M:444:LEU:C	1:M:446:THR:N	2.54	0.58
1:M:136:SER:HB3	1:O:325:ASP:OD2	48.52	0.58
1:F:14:ARG:HH11	1:F:17:ALA:CB	2.17	0.58
1:S:15:PHE:HZ	1:S:283:CYS:SG	2.26	0.58
1:A:14:ARG:HH11	1:A:17:ALA:CB	2.17	0.58
1:H:14:ARG:HH11	1:H:17:ALA:CB	2.17	0.58
1:A:199:PRO:HB3	1:A:282:THR:HG22	1.84	0.58
1:S:66:LYS:HZ3	1:S:420:VAL:HG11	1.69	0.58
1:K:598:GLN:HB2	1:K:601:GLN:CB	2.34	0.58
1:H:598:GLN:HB2	1:H:601:GLN:CB	2.34	0.58
1:D:598:GLN:HB2	1:D:601:GLN:CB	2.34	0.58
1:B:384:LEU:O	1:B:386:THR:N	2.36	0.58
1:D:238:PRO:HG3	1:D:263:PHE:HB3	1.86	0.58
1:N:86:ALA:HB2	1:N:515:GLU:HG3	1.85	0.58
1:W:379:GLU:O	1:W:380:ASN:HB2	2.04	0.58
1:V:598:GLN:HB2	1:V:601:GLN:CB	2.34	0.58
1:O:86:ALA:HB2	1:O:515:GLU:HG3	1.84	0.58
1:A:363:TYR:HE1	1:B:350:PHE:HE1	1.52	0.58
1:B:118:GLN:NE2	1:B:303:VAL:HB	2.19	0.57
1:B:47:GLN:CD	1:B:47:GLN:O	2.42	0.57
1:C:173:CYS:SG	1:C:298:ILE:HD13	2.43	0.57
1:E:41:TRP:HE3	1:E:42:ASP:CA	2.14	0.57
1:J:47:GLN:CD	1:J:47:GLN:O	2.42	0.57
1:K:560:LEU:HD13	1:L:82:PRO:CD	2.20	0.57
1:V:15:PHE:HZ	1:V:283:CYS:SG	2.22	0.57
1:Q:158:TRP:CE3	1:Q:173:CYS:SG	2.85	0.57
1:X:15:PHE:CZ	1:X:283:CYS:HA	2.38	0.57
1:R:236:GLN:CB	1:R:265:LYS:HG2	2.33	0.57
1:N:352:TRP:CG	1:V:376:ARG:HB2	2.40	0.57
1:U:586:THR:N	1:U:587:PRO:HD3	2.19	0.57
1:B:598:GLN:HB2	1:B:601:GLN:CB	2.34	0.57
1:J:389:LEU:HD12	1:J:389:LEU:H	1.68	0.57
1:A:384:LEU:HD22	1:A:384:LEU:H	1.68	0.57
1:C:238:PRO:HG3	1:C:263:PHE:HB3	1.86	0.57
1:T:395:PRO:HD2	1:W:398:PRO:HB3	1.86	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:238:PRO:HG3	1:A:263:PHE:HB3	1.86	0.57
1:R:276:VAL:HG23	1:R:293:ILE:HG23	1.85	0.57
1:V:99:ARG:O	1:V:103:ARG:HG3	2.03	0.57
1:A:158:TRP:HD1	1:A:158:TRP:H	1.52	0.57
1:C:144:ILE:HD12	1:C:145:ARG:N	2.20	0.57
1:H:118:GLN:NE2	1:H:303:VAL:HB	2.19	0.57
1:H:50:THR:HG21	1:H:54:ARG:NH2	2.18	0.57
1:M:26:ARG:HG2	1:N:212:LEU:HD22	1.86	0.57
1:N:78:VAL:HG11	1:N:444:LEU:HG	1.86	0.57
1:P:128:LEU:HD12	1:P:446:THR:HG23	1.84	0.57
1:U:47:GLN:HG2	1:U:48:TYR:H	1.69	0.57
1:V:431:ALA:O	1:V:435:VAL:HG22	2.04	0.57
1:U:510:ILE:HG12	1:U:511:ARG:N	2.19	0.57
1:V:510:ILE:HG12	1:V:511:ARG:N	2.19	0.57
1:I:546:THR:CG2	1:I:547:PRO:HD3	2.27	0.57
1:T:46:SER:N	1:T:48:TYR:HE2	1.97	0.57
1:G:248:LYS:NZ	1:G:513:ARG:HH12	2.02	0.57
1:C:264:ILE:O	1:C:265:LYS:HD3	2.03	0.57
1:E:264:ILE:O	1:E:265:LYS:HD3	2.03	0.57
1:S:563:LYS:HD3	1:T:557:PHE:CE2	2.38	0.57
1:M:554:LEU:HD12	1:M:557:PHE:HD2	1.69	0.57
1:O:586:THR:N	1:O:587:PRO:HD3	2.18	0.57
1:S:86:ALA:HB2	1:S:515:GLU:HG3	1.86	0.57
1:F:238:PRO:HG3	1:F:263:PHE:HB3	1.86	0.57
1:T:86:ALA:HB2	1:T:515:GLU:HG3	1.86	0.57
2:Y:43:GLN:C	2:Y:45:ALA:H	2.07	0.57
1:B:49:THR:O	1:B:49:THR:CG2	2.51	0.57
1:G:144:ILE:HD12	1:G:145:ARG:N	2.20	0.57
1:H:144:ILE:HD12	1:H:145:ARG:N	2.20	0.57
1:H:34:PHE:HE1	1:H:324:LYS:HZ2	1.47	0.57
1:I:182:ASN:HD22	1:J:171:ARG:HH21	1.51	0.57
2:Y:92:VAL:O	2:Y:96:LEU:HB2	2.04	0.57
1:N:138:THR:H	1:N:143:VAL:HG22	1.67	0.57
1:Q:78:VAL:HG22	1:Q:444:LEU:HD21	1.87	0.57
1:R:47:GLN:HG2	1:R:48:TYR:H	1.67	0.57
1:T:24:GLU:C	1:T:26:ARG:N	2.57	0.57
1:S:82:PRO:HG2	1:U:560:LEU:HD22	1.86	0.57
1:X:138:THR:H	1:X:143:VAL:HG22	1.69	0.57
1:R:510:ILE:HG12	1:R:511:ARG:N	2.20	0.57
1:V:71:MSE:HE2	1:V:119:ILE:HD11	1.85	0.57
1:C:236:GLN:CB	1:C:265:LYS:HZ3	2.15	0.57
1:F:248:LYS:NZ	1:F:513:ARG:HH12	2.02	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:199:PRO:HB3	1:G:282:THR:HG22	1.84	0.57
1:R:577:ILE:HA	1:R:582:LYS:HB3	1.86	0.57
1:I:210:PRO:HD2	1:I:211:TRP:CZ3	2.39	0.57
1:J:210:PRO:HD2	1:J:211:TRP:CZ3	2.39	0.57
1:K:210:PRO:HD2	1:K:211:TRP:CZ3	2.39	0.57
1:G:598:GLN:HB2	1:G:601:GLN:CB	2.34	0.57
1:E:598:GLN:HB2	1:E:601:GLN:CB	2.34	0.57
1:D:384:LEU:H	1:D:384:LEU:HD22	1.68	0.57
1:H:389:LEU:H	1:H:389:LEU:HD12	1.68	0.57
1:C:389:LEU:HD12	1:C:389:LEU:H	1.68	0.57
3:M:719:HOH:O	1:O:430:VAL:CG1	2.52	0.57
1:W:86:ALA:HB2	1:W:515:GLU:HG3	1.86	0.57
2:Y:51:ALA:O	2:Y:54:ALA:HB3	2.04	0.57
2:Z:43:GLN:C	2:Z:45:ALA:H	2.07	0.57
1:D:541:LYS:HD3	1:D:542:THR:HG23	1.87	0.57
1:K:238:PRO:HG3	1:K:263:PHE:HB3	1.86	0.57
1:X:276:VAL:HG23	1:X:293:ILE:HG23	1.86	0.57
1:X:379:GLU:O	1:X:380:ASN:HB2	2.04	0.57
1:A:144:ILE:HD12	1:A:145:ARG:N	2.20	0.57
1:G:50:THR:HG21	1:G:54:ARG:NH2	2.18	0.57
1:P:444:LEU:C	1:P:446:THR:N	2.53	0.57
1:R:431:ALA:O	1:R:435:VAL:HG22	2.04	0.57
1:V:78:VAL:HG11	1:V:444:LEU:HG	1.86	0.57
1:C:14:ARG:HH11	1:C:17:ALA:CB	2.17	0.57
1:D:14:ARG:HH11	1:D:17:ALA:CB	2.17	0.57
1:B:14:ARG:HH11	1:B:17:ALA:CB	2.17	0.57
1:N:510:ILE:HG12	1:N:511:ARG:N	2.19	0.57
1:O:273:ARG:HH22	1:O:453:LEU:HD21	1.68	0.57
1:B:248:LYS:NZ	1:B:513:ARG:HH12	2.02	0.57
1:Q:577:ILE:HA	1:Q:582:LYS:HB3	1.86	0.57
1:P:577:ILE:HA	1:P:582:LYS:HB3	1.85	0.57
1:G:210:PRO:HD2	1:G:211:TRP:CZ3	2.39	0.57
1:H:210:PRO:HD2	1:H:211:TRP:CZ3	2.39	0.57
1:A:210:PRO:HD2	1:A:211:TRP:CZ3	2.39	0.57
1:E:210:PRO:HD2	1:E:211:TRP:CZ3	2.39	0.57
1:W:586:THR:N	1:W:587:PRO:HD3	2.19	0.57
1:B:541:LYS:HD3	1:B:542:THR:HG23	1.87	0.57
1:E:389:LEU:HD12	1:E:389:LEU:H	1.68	0.57
1:A:598:GLN:HB2	1:A:601:GLN:CB	2.34	0.57
1:I:166:ASP:OD2	1:I:168:SER:HB3	2.05	0.57
1:X:86:ALA:HB2	1:X:515:GLU:HG3	1.85	0.57
1:V:379:GLU:O	1:V:380:ASN:HB2	2.04	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:395:PRO:HD2	1:F:398:PRO:HB3	1.86	0.57
1:T:598:GLN:HB2	1:T:601:GLN:CB	2.34	0.57
1:B:166:ASP:OD2	1:B:168:SER:HB3	2.05	0.57
1:B:144:ILE:HD12	1:B:145:ARG:N	2.19	0.57
1:B:41:TRP:HE3	1:B:42:ASP:CA	2.14	0.57
1:D:47:GLN:CD	1:D:47:GLN:O	2.42	0.57
1:F:118:GLN:NE2	1:F:303:VAL:HB	2.19	0.57
1:H:49:THR:CG2	1:H:49:THR:O	2.51	0.57
1:J:144:ILE:HD12	1:J:145:ARG:N	2.20	0.57
1:L:118:GLN:NE2	1:L:303:VAL:HB	2.19	0.57
2:Z:28:VAL:HG11	2:Z:97:ALA:N	2.19	0.57
1:S:138:THR:H	1:S:143:VAL:HG22	1.68	0.57
1:J:14:ARG:HH11	1:J:17:ALA:CB	2.17	0.57
1:K:546:THR:CG2	1:K:547:PRO:HD3	2.27	0.57
1:X:199:PRO:HB3	1:X:282:THR:HG22	1.86	0.57
1:L:210:PRO:HD2	1:L:211:TRP:CZ3	2.39	0.57
1:F:210:PRO:HD2	1:F:211:TRP:CZ3	2.39	0.57
1:B:108:LYS:HD2	1:C:438:LEU:HD11	1.86	0.57
1:B:238:PRO:HG3	1:B:263:PHE:HB3	1.86	0.57
1:H:191:TYR:HE1	1:H:278:LYS:HZ3	1.51	0.57
1:X:99:ARG:O	1:X:103:ARG:HG3	2.04	0.57
1:D:363:TYR:HE1	1:F:350:PHE:HE1	1.50	0.57
1:A:166:ASP:OD2	1:A:168:SER:HB3	2.05	0.57
1:G:238:PRO:HG3	1:G:263:PHE:HB3	1.86	0.57
1:C:34:PHE:HZ	1:C:328:ARG:HH22	0.80	0.57
1:D:158:TRP:H	1:D:158:TRP:HD1	1.52	0.57
1:F:144:ILE:HD12	1:F:145:ARG:N	2.19	0.57
1:G:118:GLN:NE2	1:G:303:VAL:HB	2.19	0.57
1:I:158:TRP:H	1:I:158:TRP:HD1	1.52	0.57
1:J:118:GLN:NE2	1:J:303:VAL:HB	2.19	0.57
1:I:334:MSE:SE	1:J:404:MSE:HE1	2.55	0.57
1:K:115:VAL:HA	1:K:118:GLN:HB3	1.86	0.57
1:K:14:ARG:HH11	1:K:17:ALA:CB	2.17	0.57
1:J:334:MSE:SE	1:K:404:MSE:HE1	2.55	0.57
1:L:35:PHE:HE2	1:L:324:LYS:HZ3	1.50	0.57
2:Z:78:GLU:CG	2:Z:79:GLY:N	2.63	0.57
1:E:14:ARG:HH11	1:E:17:ALA:CB	2.17	0.57
1:I:248:LYS:NZ	1:I:513:ARG:HH12	2.02	0.57
1:L:236:GLN:CB	1:L:265:LYS:HZ3	2.15	0.57
1:P:199:PRO:HB3	1:P:282:THR:HG22	1.87	0.57
1:O:554:LEU:HD12	1:O:557:PHE:HD2	1.69	0.57
1:X:577:ILE:HA	1:X:582:LYS:HB3	1.85	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:276:VAL:HG23	1:D:293:ILE:CG2	2.34	0.57
1:R:586:THR:N	1:R:587:PRO:HD3	2.19	0.57
1:W:554:LEU:HD12	1:W:557:PHE:HD2	1.68	0.57
1:L:598:GLN:HB2	1:L:601:GLN:CB	2.34	0.57
1:C:166:ASP:OD2	1:C:168:SER:HB3	2.05	0.57
1:I:238:PRO:HG3	1:I:263:PHE:HB3	1.86	0.57
1:D:166:ASP:OD2	1:D:168:SER:HB3	2.05	0.57
1:K:541:LYS:HD3	1:K:542:THR:HG23	1.87	0.57
1:N:99:ARG:O	1:N:103:ARG:HG3	2.05	0.57
1:V:86:ALA:HB2	1:V:515:GLU:HG3	1.86	0.57
1:A:115:VAL:HA	1:A:118:GLN:HB3	1.86	0.57
1:C:50:THR:HG21	1:C:54:ARG:NH2	2.18	0.57
1:E:49:THR:CG2	1:E:49:THR:O	2.51	0.57
1:H:37:ARG:HH21	1:H:37:ARG:CB	2.16	0.57
1:I:144:ILE:HD12	1:I:145:ARG:N	2.20	0.57
1:K:440:MSE:O	1:K:444:LEU:HD22	2.05	0.57
1:L:14:ARG:HH11	1:L:17:ALA:CB	2.17	0.57
1:R:165:MSE:HE3	1:R:304:PHE:HB2	1.87	0.57
1:N:310:VAL:HG22	1:V:40:GLN:HG2	1.86	0.57
1:N:158:TRP:HB3	1:N:173:CYS:CA	2.27	0.57
1:B:563:LYS:HD3	1:C:557:PHE:CE2	2.40	0.57
1:O:564:GLY:CA	1:P:554:LEU:HD21	2.34	0.57
1:D:210:PRO:HD2	1:D:211:TRP:CZ3	2.39	0.57
1:V:390:ALA:CB	1:W:387:GLN:CB	2.83	0.57
1:I:598:GLN:HB2	1:I:601:GLN:CB	2.34	0.57
1:Q:598:GLN:HB2	1:Q:601:GLN:CB	2.35	0.57
1:F:166:ASP:OD2	1:F:168:SER:HB3	2.05	0.57
1:L:238:PRO:HG3	1:L:263:PHE:HB3	1.86	0.57
1:P:154:SER:O	1:P:204:PRO:HB3	2.03	0.57
1:Q:276:VAL:HG23	1:Q:293:ILE:HG23	1.85	0.57
1:C:37:ARG:CB	1:C:37:ARG:HH21	2.16	0.57
1:D:49:THR:O	1:D:49:THR:CG2	2.51	0.57
1:E:144:ILE:HD12	1:E:145:ARG:N	2.20	0.57
1:D:171:ARG:HH21	1:E:182:ASN:ND2	2.02	0.57
1:G:115:VAL:HA	1:G:118:GLN:HB3	1.86	0.57
1:H:47:GLN:O	1:H:47:GLN:CD	2.42	0.57
1:O:165:MSE:HE3	1:O:304:PHE:HB2	1.85	0.57
2:Z:92:VAL:O	2:Z:96:LEU:HB2	2.04	0.57
1:M:273:ARG:NH2	1:M:453:LEU:HD21	2.19	0.57
1:U:273:ARG:NH2	1:U:453:LEU:HD21	2.19	0.57
1:S:199:PRO:HB3	1:S:282:THR:HG22	1.85	0.57
1:K:376:ARG:HB2	1:L:352:TRP:CG	2.40	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:597:GLN:HA	1:B:597:GLN:HE21	1.70	0.57
1:I:276:VAL:HG23	1:I:293:ILE:CG2	2.34	0.57
1:C:597:GLN:HE21	1:C:597:GLN:HA	1.70	0.57
1:V:586:THR:N	1:V:587:PRO:HD3	2.19	0.57
1:F:598:GLN:HB2	1:F:601:GLN:CB	2.34	0.57
1:B:389:LEU:HD12	1:B:389:LEU:H	1.68	0.57
1:W:598:GLN:HB2	1:W:601:GLN:CB	2.35	0.57
2:Z:51:ALA:O	2:Z:54:ALA:HB3	2.04	0.57
1:M:154:SER:O	1:M:204:PRO:HB3	2.04	0.57
1:F:372:TYR:CE2	1:G:348:LYS:HB2	2.40	0.57
1:U:95:MSE:HB3	1:U:527:MSE:HE1	1.87	0.57
1:R:379:GLU:O	1:R:380:ASN:HB2	2.04	0.57
1:H:166:ASP:OD2	1:H:168:SER:HB3	2.05	0.57
1:B:440:MSE:O	1:B:444:LEU:HD22	2.05	0.57
1:E:440:MSE:O	1:E:444:LEU:HD22	2.05	0.57
1:H:440:MSE:O	1:H:444:LEU:HD22	2.05	0.57
1:I:47:GLN:CD	1:I:47:GLN:O	2.42	0.57
1:L:47:GLN:O	1:L:47:GLN:CD	2.42	0.57
1:O:99:ARG:O	1:O:103:ARG:HG3	2.05	0.57
1:O:561:ASP:OD2	1:P:92:ASP:HB3	2.04	0.57
1:R:138:THR:H	1:R:143:VAL:HG22	1.69	0.57
1:T:78:VAL:HG11	1:T:444:LEU:HG	1.86	0.57
1:W:78:VAL:HG11	1:W:444:LEU:HG	1.87	0.57
1:A:248:LYS:NZ	1:A:513:ARG:HH12	2.02	0.57
1:V:210:PRO:HD2	1:V:211:TRP:CD2	2.40	0.57
1:W:236:GLN:CB	1:W:265:LYS:HG2	2.32	0.57
1:L:597:GLN:HA	1:L:597:GLN:HE21	1.70	0.57
1:B:210:PRO:HD2	1:B:211:TRP:CZ3	2.39	0.57
1:E:541:LYS:HD3	1:E:542:THR:HG23	1.87	0.57
1:C:541:LYS:HD3	1:C:542:THR:HG23	1.87	0.57
1:P:586:THR:N	1:P:587:PRO:HD3	2.19	0.57
1:C:598:GLN:HB2	1:C:601:GLN:CB	2.34	0.57
1:A:389:LEU:HD12	1:A:389:LEU:H	1.68	0.57
1:V:390:ALA:CB	1:W:387:GLN:HB3	2.35	0.57
1:C:334:MSE:HE3	1:E:404:MSE:CE	2.34	0.57
1:H:115:VAL:HA	1:H:118:GLN:HB3	1.86	0.57
1:I:115:VAL:HA	1:I:118:GLN:HB3	1.86	0.57
2:Z:78:GLU:HG3	2:Z:79:GLY:N	2.20	0.57
1:P:431:ALA:O	1:P:435:VAL:HG22	2.05	0.57
1:T:165:MSE:HE3	1:T:304:PHE:HB2	1.87	0.57
1:K:248:LYS:NZ	1:K:513:ARG:HH12	2.02	0.57
1:B:248:LYS:HG3	1:B:511:ARG:HH11	1.70	0.57

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:248:LYS:HG3	1:D:511:ARG:HH11	1.70	0.57
1:J:597:GLN:HE21	1:J:597:GLN:HA	1.70	0.57
1:H:597:GLN:HE21	1:H:597:GLN:HA	1.70	0.57
1:E:597:GLN:HA	1:E:597:GLN:HE21	1.70	0.57
1:J:598:GLN:HB2	1:J:601:GLN:CB	2.34	0.57
1:E:238:PRO:HG3	1:E:263:PHE:HB3	1.86	0.57
1:O:598:GLN:HB2	1:O:601:GLN:CB	2.35	0.57
1:X:598:GLN:HB2	1:X:601:GLN:CB	2.35	0.57
3:S:719:HOH:O	1:T:430:VAL:CG1	2.53	0.57
1:R:598:GLN:HB2	1:R:601:GLN:CB	2.35	0.57
1:D:115:VAL:HA	1:D:118:GLN:HB3	1.86	0.56
1:D:144:ILE:HD12	1:D:145:ARG:N	2.19	0.56
1:F:34:PHE:HZ	1:F:328:ARG:HH22	0.80	0.56
1:H:334:MSE:HE3	1:I:404:MSE:HE3	1.86	0.56
1:P:46:SER:N	1:P:48:TYR:HE2	1.97	0.56
1:S:561:ASP:OD2	1:T:92:ASP:HB3	2.03	0.56
1:U:37:ARG:NH2	1:U:41:TRP:HB3	2.20	0.56
1:U:78:VAL:HG11	1:U:444:LEU:HG	1.86	0.56
2:Y:78:GLU:CG	2:Y:79:GLY:N	2.63	0.56
1:M:158:TRP:O	1:M:160:SER:N	2.38	0.56
1:L:248:LYS:NZ	1:L:513:ARG:HH12	2.02	0.56
1:T:209:PHE:HZ	1:T:214:GLN:HG2	1.70	0.56
1:D:597:GLN:HA	1:D:597:GLN:HE21	1.70	0.56
1:U:94:LEU:HA	1:U:97:MSE:CE	2.34	0.56
1:E:166:ASP:OD2	1:E:168:SER:HB3	2.05	0.56
1:B:115:VAL:HA	1:B:118:GLN:HB3	1.86	0.56
1:G:440:MSE:O	1:G:444:LEU:HD22	2.05	0.56
1:I:440:MSE:O	1:I:444:LEU:HD22	2.05	0.56
1:K:118:GLN:NE2	1:K:303:VAL:HB	2.19	0.56
1:L:440:MSE:O	1:L:444:LEU:HD22	2.05	0.56
1:O:158:TRP:O	1:O:160:SER:N	2.37	0.56
1:P:158:TRP:CH2	1:P:302:PRO:HG3	2.39	0.56
1:P:158:TRP:O	1:P:160:SER:N	2.38	0.56
1:V:273:ARG:NH1	1:V:275:ARG:HE	2.03	0.56
1:K:248:LYS:CG	1:K:511:ARG:HH11	2.19	0.56
1:Q:94:LEU:HA	1:Q:97:MSE:CE	2.35	0.56
1:M:598:GLN:HB2	1:M:601:GLN:CB	2.35	0.56
1:L:541:LYS:HD3	1:L:542:THR:HG23	1.87	0.56
1:U:86:ALA:HB2	1:U:515:GLU:HG3	1.86	0.56
1:A:372:TYR:CE2	1:B:348:LYS:HB2	2.39	0.56
1:G:34:PHE:HE1	1:G:324:LYS:HZ2	1.50	0.56
1:I:334:MSE:HE3	1:J:404:MSE:CE	2.35	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:118:GLN:NE2	1:I:303:VAL:HB	2.19	0.56
1:J:440:MSE:O	1:J:444:LEU:HD22	2.05	0.56
1:M:78:VAL:CG2	1:M:444:LEU:HD11	2.23	0.56
1:S:165:MSE:HE3	1:S:304:PHE:HB2	1.86	0.56
1:V:78:VAL:HG12	1:V:79:LEU:H	1.70	0.56
1:W:158:TRP:O	1:W:160:SER:N	2.38	0.56
1:M:71:MSE:HE2	1:M:119:ILE:HD11	1.86	0.56
1:J:248:LYS:HG3	1:J:511:ARG:HH11	1.70	0.56
1:G:236:GLN:CB	1:G:265:LYS:HZ3	2.16	0.56
1:K:248:LYS:HG3	1:K:511:ARG:HH11	1.70	0.56
1:U:273:ARG:HH22	1:U:453:LEU:HD21	1.70	0.56
1:I:567:MSE:SE	1:J:576:LEU:HD13	2.55	0.56
1:F:248:LYS:HG3	1:F:511:ARG:HH11	1.70	0.56
1:L:248:LYS:HG3	1:L:511:ARG:HH11	1.70	0.56
1:X:210:PRO:HD2	1:X:211:TRP:CD2	2.40	0.56
1:X:456:ALA:HB1	1:X:509:ASP:OD1	2.05	0.56
1:N:577:ILE:HA	1:N:582:LYS:HB3	1.85	0.56
1:I:597:GLN:HE21	1:I:597:GLN:HA	1.70	0.56
1:S:598:GLN:HB2	1:S:601:GLN:CB	2.35	0.56
1:V:578:GLN:HG2	1:V:596:ALA:HB2	1.87	0.56
1:M:430:VAL:CG1	3:N:719:HOH:O	2.53	0.56
1:G:166:ASP:OD2	1:G:168:SER:HB3	2.05	0.56
1:M:578:GLN:HG2	1:M:596:ALA:HB2	1.87	0.56
1:J:166:ASP:OD2	1:J:168:SER:HB3	2.05	0.56
1:A:72:ARG:HD2	1:B:434:THR:HG21	1.87	0.56
1:G:37:ARG:HH21	1:G:37:ARG:CB	2.16	0.56
1:H:158:TRP:H	1:H:158:TRP:HD1	1.52	0.56
1:O:144:ILE:HD12	1:O:145:ARG:N	2.20	0.56
1:L:144:ILE:HD12	1:L:145:ARG:N	2.20	0.56
1:Q:46:SER:N	1:Q:48:TYR:HE2	1.98	0.56
1:R:165:MSE:HE1	1:R:435:VAL:HB	1.87	0.56
1:Q:158:TRP:O	1:Q:160:SER:N	2.39	0.56
1:P:510:ILE:HG12	1:P:511:ARG:N	2.20	0.56
1:N:71:MSE:HE2	1:N:119:ILE:HD11	1.85	0.56
1:K:273:ARG:NH2	1:K:453:LEU:HD21	2.21	0.56
1:H:248:LYS:CG	1:H:511:ARG:HH11	2.19	0.56
1:Q:210:PRO:HD2	1:Q:211:TRP:CD2	2.40	0.56
1:V:209:PHE:HZ	1:V:214:GLN:HG2	1.70	0.56
1:M:210:PRO:HD2	1:M:211:TRP:CD2	2.41	0.56
1:S:209:PHE:N	1:S:210:PRO:HD3	2.21	0.56
1:U:210:PRO:HD2	1:U:211:TRP:CD2	2.40	0.56
1:U:199:PRO:HB3	1:U:282:THR:HG22	1.87	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:210:PRO:HD2	1:I:211:TRP:CE3	2.41	0.56
1:J:210:PRO:HD2	1:J:211:TRP:CE3	2.41	0.56
1:C:210:PRO:HD2	1:C:211:TRP:CZ3	2.39	0.56
1:Q:564:GLY:HA2	1:R:554:LEU:HD21	1.87	0.56
1:U:99:ARG:O	1:U:103:ARG:HG3	2.05	0.56
1:N:598:GLN:HB2	1:N:601:GLN:CB	2.35	0.56
1:P:598:GLN:HB2	1:P:601:GLN:CB	2.35	0.56
1:K:166:ASP:OD2	1:K:168:SER:HB3	2.05	0.56
1:A:440:MSE:O	1:A:444:LEU:HD22	2.05	0.56
1:B:161:ASN:C	1:B:161:ASN:ND2	2.59	0.56
1:E:158:TRP:H	1:E:158:TRP:HD1	1.52	0.56
1:I:161:ASN:C	1:I:161:ASN:ND2	2.59	0.56
1:K:144:ILE:HD12	1:K:145:ARG:N	2.20	0.56
1:S:510:ILE:HG12	1:S:511:ARG:N	2.20	0.56
1:X:158:TRP:CE3	1:X:173:CYS:SG	2.85	0.56
1:J:236:GLN:CB	1:J:265:LYS:HZ3	2.16	0.56
1:G:248:LYS:HG3	1:G:511:ARG:HH11	1.70	0.56
1:D:248:LYS:CG	1:D:511:ARG:HH11	2.19	0.56
1:E:248:LYS:CG	1:E:511:ARG:HH11	2.19	0.56
1:N:210:PRO:HD2	1:N:211:TRP:CD2	2.41	0.56
1:O:210:PRO:HD2	1:O:211:TRP:CD2	2.41	0.56
1:R:199:PRO:HB3	1:R:282:THR:HG22	1.86	0.56
1:A:597:GLN:HE21	1:A:597:GLN:HA	1.70	0.56
1:E:210:PRO:HD2	1:E:211:TRP:CE3	2.41	0.56
1:N:554:LEU:HD21	1:V:564:GLY:HA2	1.86	0.56
1:U:598:GLN:HB2	1:U:601:GLN:CB	2.35	0.56
2:Z:78:GLU:O	2:Z:80:ASP:OD2	2.24	0.56
1:S:78:VAL:HG11	1:S:444:LEU:HG	1.86	0.56
1:T:158:TRP:O	1:T:160:SER:N	2.39	0.56
1:U:165:MSE:HE3	1:U:304:PHE:HB2	1.87	0.56
1:X:510:ILE:HG12	1:X:511:ARG:N	2.19	0.56
1:W:158:TRP:CE3	1:W:173:CYS:SG	2.85	0.56
1:U:158:TRP:O	1:U:160:SER:N	2.39	0.56
1:S:273:ARG:HH22	1:S:453:LEU:HD21	1.70	0.56
1:J:248:LYS:CG	1:J:511:ARG:HH11	2.19	0.56
1:A:236:GLN:CB	1:A:265:LYS:HZ3	2.16	0.56
1:I:248:LYS:CG	1:I:511:ARG:HH11	2.19	0.56
1:I:248:LYS:HG3	1:I:511:ARG:HH11	1.70	0.56
1:V:209:PHE:N	1:V:210:PRO:HD3	2.21	0.56
1:H:210:PRO:HD2	1:H:211:TRP:CE3	2.41	0.56
1:F:210:PRO:HD2	1:F:211:TRP:CE3	2.41	0.56
1:D:337:ASN:ND2	1:D:401:ASN:HD22	2.04	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:238:PRO:HG3	1:J:263:PHE:HB3	1.86	0.56
1:F:363:TYR:HE1	1:G:350:PHE:HE1	1.53	0.56
1:A:541:LYS:HD3	1:A:542:THR:HG23	1.87	0.56
1:R:578:GLN:HG2	1:R:596:ALA:HB2	1.88	0.56
1:C:158:TRP:HD1	1:C:158:TRP:H	1.52	0.56
1:G:158:TRP:HD1	1:G:158:TRP:H	1.52	0.56
1:G:334:MSE:SE	1:H:404:MSE:HE1	2.55	0.56
1:T:456:ALA:HB1	1:T:509:ASP:OD1	2.05	0.56
1:W:165:MSE:HE3	1:W:304:PHE:HB2	1.86	0.56
1:S:158:TRP:O	1:S:160:SER:N	2.39	0.56
1:O:273:ARG:NH1	1:O:275:ARG:HE	2.04	0.56
1:X:273:ARG:NH1	1:X:275:ARG:HE	2.04	0.56
1:X:273:ARG:NH2	1:X:453:LEU:HD21	2.21	0.56
1:H:248:LYS:NZ	1:H:513:ARG:HH12	2.02	0.56
1:K:597:GLN:HE21	1:K:597:GLN:HA	1.70	0.56
1:G:597:GLN:HE21	1:G:597:GLN:HA	1.70	0.56
1:T:66:LYS:HZ3	1:T:420:VAL:HG11	1.71	0.56
1:A:210:PRO:HD2	1:A:211:TRP:CE3	2.41	0.56
1:A:352:TRP:CD2	1:L:376:ARG:HB2	2.41	0.56
1:F:597:GLN:HA	1:F:597:GLN:HE21	1.70	0.56
1:E:337:ASN:ND2	1:E:401:ASN:HD22	2.04	0.56
1:V:95:MSE:HB3	1:V:527:MSE:HE1	1.88	0.56
1:D:161:ASN:ND2	1:D:161:ASN:C	2.59	0.56
1:K:182:ASN:ND2	1:L:171:ARG:HH21	2.03	0.56
1:O:35:PHE:CE1	1:O:321:ARG:NE	2.73	0.56
2:Y:78:GLU:O	2:Y:80:ASP:OD2	2.24	0.56
1:N:158:TRP:O	1:N:160:SER:N	2.38	0.56
1:F:546:THR:CG2	1:F:547:PRO:HD3	2.27	0.56
1:A:248:LYS:CG	1:A:511:ARG:HH11	2.19	0.56
1:C:248:LYS:CG	1:C:511:ARG:HH11	2.19	0.56
1:S:210:PRO:HD2	1:S:211:TRP:CD2	2.40	0.56
1:O:209:PHE:N	1:O:210:PRO:HD3	2.21	0.56
1:I:541:LYS:HD3	1:I:542:THR:HG23	1.87	0.56
1:T:578:GLN:HG2	1:T:596:ALA:HB2	1.86	0.56
1:S:430:VAL:CG1	3:U:719:HOH:O	2.52	0.56
1:C:440:MSE:O	1:C:444:LEU:HD22	2.05	0.56
1:K:158:TRP:HD1	1:K:158:TRP:H	1.52	0.56
1:K:158:TRP:HB3	1:K:173:CYS:CA	2.36	0.56
1:L:161:ASN:ND2	1:L:161:ASN:C	2.59	0.56
1:Q:431:ALA:O	1:Q:435:VAL:HG22	2.05	0.56
1:S:212:LEU:HD22	1:T:26:ARG:HG2	1.86	0.56
1:U:434:THR:O	1:U:437:GLN:HG2	2.06	0.56

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:510:ILE:HG12	1:Q:511:ARG:N	2.20	0.56
1:Q:158:TRP:HB3	1:Q:173:CYS:CA	2.27	0.56
1:J:273:ARG:NH2	1:J:453:LEU:HD21	2.21	0.56
1:G:248:LYS:CG	1:G:511:ARG:HH11	2.19	0.56
1:B:236:GLN:CB	1:B:265:LYS:HZ3	2.16	0.56
1:N:209:PHE:HZ	1:N:214:GLN:HG2	1.70	0.56
1:T:209:PHE:N	1:T:210:PRO:HD3	2.21	0.56
1:N:199:PRO:HB3	1:N:282:THR:HG22	1.87	0.56
1:C:210:PRO:HD2	1:C:211:TRP:CE3	2.41	0.56
1:N:94:LEU:HA	1:N:97:MSE:CE	2.36	0.56
1:H:337:ASN:ND2	1:H:401:ASN:HD22	2.04	0.56
1:I:337:ASN:ND2	1:I:401:ASN:HD22	2.04	0.56
1:Q:86:ALA:HB2	1:Q:515:GLU:HG3	1.87	0.56
1:S:578:GLN:HG2	1:S:596:ALA:HB2	1.87	0.56
3:T:719:HOH:O	1:W:430:VAL:CG1	2.53	0.56
1:Q:578:GLN:HG2	1:Q:596:ALA:HB2	1.86	0.56
1:B:27:ARG:HB2	1:B:313:LYS:HE3	1.88	0.56
1:E:380:ASN:O	1:E:381:SER:HB3	2.06	0.56
1:G:34:PHE:HZ	1:G:328:ARG:HH22	0.80	0.56
1:J:161:ASN:ND2	1:J:161:ASN:C	2.59	0.56
1:P:144:ILE:HD12	1:P:145:ARG:N	2.21	0.56
1:Q:101:ASP:HB2	1:Q:144:ILE:O	2.06	0.56
1:Q:41:TRP:HE1	1:R:27:ARG:HH21	1.54	0.56
1:F:248:LYS:CG	1:F:511:ARG:HH11	2.19	0.56
1:R:210:PRO:HD2	1:R:211:TRP:CD2	2.41	0.56
1:Q:209:PHE:N	1:Q:210:PRO:HD3	2.21	0.56
1:W:209:PHE:HZ	1:W:214:GLN:HG2	1.70	0.56
1:W:209:PHE:N	1:W:210:PRO:HD3	2.21	0.56
1:S:564:GLY:CA	1:T:554:LEU:HD21	2.36	0.56
1:W:199:PRO:HB3	1:W:282:THR:HG22	1.87	0.56
1:V:430:VAL:CG1	3:W:719:HOH:O	2.54	0.56
1:O:578:GLN:HG2	1:O:596:ALA:HB2	1.88	0.56
1:P:296:GLU:HG2	1:P:449:PHE:HB3	1.88	0.56
1:A:158:TRP:HB3	1:A:173:CYS:CA	2.36	0.55
1:B:158:TRP:HB3	1:B:173:CYS:CA	2.36	0.55
1:D:440:MSE:O	1:D:444:LEU:HD22	2.05	0.55
1:D:404:MSE:CE	1:E:334:MSE:HE3	2.36	0.55
1:L:158:TRP:H	1:L:158:TRP:HD1	1.52	0.55
1:M:78:VAL:HG11	1:M:444:LEU:HG	1.87	0.55
1:X:101:ASP:HB2	1:X:144:ILE:O	2.07	0.55
1:R:71:MSE:HE2	1:R:119:ILE:HD11	1.86	0.55
1:Q:273:ARG:NH1	1:Q:275:ARG:HE	2.04	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:248:LYS:HG3	1:H:511:ARG:HH11	1.70	0.55
1:E:248:LYS:HG3	1:E:511:ARG:HH11	1.70	0.55
1:L:248:LYS:CG	1:L:511:ARG:HH11	2.19	0.55
1:R:209:PHE:N	1:R:210:PRO:HD3	2.21	0.55
1:R:420:VAL:HG22	1:R:428:GLY:HA3	1.88	0.55
1:B:210:PRO:HD2	1:B:211:TRP:CE3	2.41	0.55
1:V:94:LEU:HA	1:V:97:MSE:CE	2.36	0.55
1:I:380:ASN:O	1:I:381:SER:HB3	2.07	0.55
1:P:94:LEU:HA	1:P:97:MSE:CE	2.36	0.55
1:F:541:LYS:HD3	1:F:542:THR:HG23	1.87	0.55
1:U:390:ALA:CB	1:X:387:GLN:HB3	2.36	0.55
1:G:541:LYS:HD3	1:G:542:THR:HG23	1.87	0.55
1:W:593:LEU:O	1:W:597:GLN:HG2	2.06	0.55
1:F:47:GLN:CD	1:F:47:GLN:H	2.10	0.55
1:G:27:ARG:HB2	1:G:313:LYS:HE3	1.89	0.55
1:G:380:ASN:O	1:G:381:SER:HB3	2.07	0.55
1:K:34:PHE:CE1	1:K:324:LYS:NZ	2.72	0.55
1:O:44:TRP:CE2	1:O:54:ARG:HB3	2.41	0.55
1:S:99:ARG:O	1:S:103:ARG:HG3	2.05	0.55
1:U:35:PHE:CE1	1:U:321:ARG:NE	2.74	0.55
1:N:546:THR:CG2	1:N:547:PRO:HD3	2.29	0.55
1:U:71:MSE:HE2	1:U:119:ILE:HD11	1.88	0.55
1:X:273:ARG:HH22	1:X:453:LEU:HD21	1.71	0.55
1:T:210:PRO:HD2	1:T:211:TRP:CD2	2.41	0.55
1:G:210:PRO:HD2	1:G:211:TRP:CE3	2.41	0.55
1:L:337:ASN:ND2	1:L:401:ASN:HD22	2.04	0.55
1:L:589:GLU:HA	1:L:592:TRP:HB2	1.88	0.55
1:R:296:GLU:HG2	1:R:449:PHE:HB3	1.88	0.55
1:T:99:ARG:O	1:T:103:ARG:HG3	2.04	0.55
1:J:395:PRO:HD2	1:K:398:PRO:HB3	1.87	0.55
1:H:238:PRO:HG3	1:H:263:PHE:HB3	1.87	0.55
1:Q:296:GLU:HG2	1:Q:449:PHE:HB3	1.87	0.55
1:X:81:ARG:HB2	1:X:517:TYR:CZ	2.41	0.55
1:X:578:GLN:HG2	1:X:596:ALA:HB2	1.87	0.55
1:D:47:GLN:CD	1:D:47:GLN:H	2.10	0.55
1:F:161:ASN:C	1:F:161:ASN:ND2	2.59	0.55
1:F:440:MSE:O	1:F:444:LEU:HD22	2.05	0.55
1:M:92:ASP:HB3	1:N:561:ASP:OD2	2.06	0.55
1:O:94:LEU:HA	1:O:97:MSE:CE	2.36	0.55
1:Q:165:MSE:HE3	1:Q:304:PHE:HB2	1.87	0.55
1:Q:456:ALA:HB1	1:Q:509:ASP:OD1	2.06	0.55
1:T:246:TYR:CD2	1:T:511:ARG:HB2	2.39	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:15:PHE:HZ	1:X:283:CYS:SG	2.26	0.55
1:R:273:ARG:NH1	1:R:275:ARG:HE	2.05	0.55
1:K:210:PRO:HD2	1:K:211:TRP:CE3	2.41	0.55
1:L:380:ASN:O	1:L:381:SER:HB3	2.06	0.55
1:J:380:ASN:O	1:J:381:SER:HB3	2.07	0.55
1:S:71:MSE:HE2	1:S:119:ILE:HD11	1.87	0.55
1:S:296:GLU:HG2	1:S:449:PHE:HB3	1.87	0.55
1:W:99:ARG:O	1:W:103:ARG:HG3	2.05	0.55
1:X:296:GLU:HG2	1:X:449:PHE:HB3	1.88	0.55
1:D:589:GLU:HA	1:D:592:TRP:HB2	1.89	0.55
1:E:161:ASN:C	1:E:161:ASN:ND2	2.59	0.55
1:D:404:MSE:HE1	1:E:334:MSE:SE	2.57	0.55
1:H:161:ASN:ND2	1:H:161:ASN:C	2.59	0.55
1:L:158:TRP:HB3	1:L:173:CYS:CA	2.36	0.55
1:W:546:THR:CG2	1:W:547:PRO:HD3	2.29	0.55
1:N:404:MSE:HE1	1:V:334:MSE:SE	2.56	0.55
1:N:413:LYS:HA	1:N:416:ALA:HB3	1.88	0.55
1:R:209:PHE:HZ	1:R:214:GLN:HG2	1.70	0.55
1:A:557:PHE:CE2	1:L:563:LYS:HD3	2.41	0.55
1:L:210:PRO:HD2	1:L:211:TRP:CE3	2.41	0.55
1:L:27:ARG:HB2	1:L:313:LYS:HE3	1.89	0.55
1:T:71:MSE:HE2	1:T:119:ILE:HD11	1.87	0.55
1:H:589:GLU:HA	1:H:592:TRP:HB2	1.89	0.55
1:L:166:ASP:OD2	1:L:168:SER:HB3	2.05	0.55
1:B:589:GLU:HA	1:B:592:TRP:HB2	1.88	0.55
1:J:589:GLU:HA	1:J:592:TRP:HB2	1.89	0.55
1:P:578:GLN:HG2	1:P:596:ALA:HB2	1.87	0.55
1:G:47:GLN:H	1:G:47:GLN:CD	2.10	0.55
1:Q:44:TRP:C	1:Q:45:LEU:HD22	2.26	0.55
1:R:444:LEU:C	1:R:446:THR:N	2.54	0.55
1:V:456:ALA:HB1	1:V:509:ASP:OD1	2.06	0.55
1:R:546:THR:CG2	1:R:547:PRO:HD3	2.29	0.55
1:K:236:GLN:CB	1:K:265:LYS:HZ3	2.17	0.55
1:A:248:LYS:HG3	1:A:511:ARG:HH11	1.70	0.55
1:S:557:PHE:CE2	1:U:563:LYS:HD3	2.42	0.55
1:N:209:PHE:N	1:N:210:PRO:HD3	2.21	0.55
1:D:210:PRO:HD2	1:D:211:TRP:CE3	2.41	0.55
1:K:108:LYS:HD3	1:K:112:ASN:ND2	2.21	0.55
1:C:380:ASN:O	1:C:381:SER:HB3	2.07	0.55
1:X:94:LEU:HA	1:X:97:MSE:CE	2.36	0.55
1:G:337:ASN:ND2	1:G:401:ASN:HD22	2.04	0.55
1:N:296:GLU:HG2	1:N:449:PHE:HB3	1.89	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:27:ARG:HB2	1:A:313:LYS:HE3	1.89	0.55
1:F:80:TYR:CE2	1:F:94:LEU:HD22	2.42	0.55
1:S:78:VAL:HG12	1:S:79:LEU:H	1.71	0.55
1:U:35:PHE:HE1	1:U:321:ARG:NH1	2.05	0.55
1:V:546:THR:CG2	1:V:547:PRO:HD3	2.29	0.55
1:M:273:ARG:HH22	1:M:453:LEU:HD21	1.71	0.55
1:X:46:SER:N	1:X:48:TYR:HE2	1.98	0.55
1:G:235:TYR:HA	1:G:265:LYS:HB3	1.89	0.55
1:L:273:ARG:NH2	1:L:453:LEU:HD21	2.21	0.55
1:W:210:PRO:HD2	1:W:211:TRP:CD2	2.41	0.55
1:B:380:ASN:O	1:B:381:SER:HB3	2.06	0.55
1:J:541:LYS:HD3	1:J:542:THR:HG23	1.87	0.55
1:H:541:LYS:HD3	1:H:542:THR:HG23	1.87	0.55
1:W:95:MSE:HB3	1:W:527:MSE:HE1	1.87	0.55
2:Y:19:VAL:O	2:Y:82:HIS:CD2	2.60	0.55
2:Z:19:VAL:O	2:Z:82:HIS:CD2	2.60	0.55
1:D:27:ARG:HB2	1:D:313:LYS:HE3	1.89	0.55
1:J:47:GLN:H	1:J:47:GLN:CD	2.10	0.55
1:O:510:ILE:HG12	1:O:511:ARG:N	2.21	0.55
1:E:235:TYR:HA	1:E:265:LYS:HB3	1.89	0.55
1:F:235:TYR:HA	1:F:265:LYS:HB3	1.89	0.55
1:F:273:ARG:NH2	1:F:453:LEU:HD21	2.21	0.55
1:X:93:VAL:CG1	1:X:458:ARG:HG3	2.37	0.55
1:K:276:VAL:HG23	1:K:293:ILE:HG23	1.89	0.55
1:B:108:LYS:HD3	1:B:112:ASN:ND2	2.21	0.55
1:M:99:ARG:O	1:M:103:ARG:HG3	2.07	0.55
1:G:311:GLU:O	1:G:312:ASP:HB2	2.07	0.55
1:O:71:MSE:HE2	1:O:119:ILE:HD11	1.87	0.55
1:R:351:PHE:CD2	1:R:356:ILE:HD12	2.41	0.55
1:J:372:TYR:CE2	1:K:348:LYS:HB2	2.41	0.55
1:A:171:ARG:HH21	1:L:182:ASN:ND2	2.05	0.55
1:D:158:TRP:HB3	1:D:173:CYS:CA	2.36	0.55
1:D:306:GLU:O	1:D:316:TYR:HA	2.07	0.55
1:E:27:ARG:HB2	1:E:313:LYS:HE3	1.88	0.55
1:E:80:TYR:CE2	1:E:94:LEU:HD22	2.42	0.55
1:H:47:GLN:H	1:H:47:GLN:CD	2.10	0.55
1:K:161:ASN:ND2	1:K:161:ASN:C	2.59	0.55
1:U:165:MSE:HE1	1:U:435:VAL:HB	1.89	0.55
1:S:273:ARG:NH1	1:S:275:ARG:HE	2.05	0.55
1:K:236:GLN:CB	1:K:265:LYS:HG2	2.37	0.55
1:B:235:TYR:HA	1:B:265:LYS:HB3	1.89	0.55
1:C:248:LYS:HG3	1:C:511:ARG:HH11	1.70	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:235:TYR:HA	1:C:265:LYS:HB3	1.89	0.55
1:P:24:GLU:C	1:P:26:ARG:N	2.57	0.55
1:S:420:VAL:HG22	1:S:428:GLY:HA3	1.88	0.55
1:I:108:LYS:HD3	1:I:112:ASN:ND2	2.21	0.55
1:H:108:LYS:HD3	1:H:112:ASN:ND2	2.21	0.55
1:C:276:VAL:HG23	1:C:293:ILE:HG23	1.89	0.55
1:F:108:LYS:HD3	1:F:112:ASN:ND2	2.21	0.55
1:W:296:GLU:HG2	1:W:449:PHE:HB3	1.89	0.55
1:C:589:GLU:HA	1:C:592:TRP:HB2	1.89	0.55
1:A:306:GLU:O	1:A:316:TYR:HA	2.07	0.55
1:F:158:TRP:HB3	1:F:173:CYS:CA	2.36	0.55
1:F:306:GLU:O	1:F:316:TYR:HA	2.07	0.55
1:K:80:TYR:CE2	1:K:94:LEU:HD22	2.42	0.55
1:Q:47:GLN:HG2	1:Q:48:TYR:N	2.22	0.55
2:Y:34:LEU:C	2:Y:35:THR:CG2	2.73	0.55
1:I:235:TYR:HA	1:I:265:LYS:HB3	1.89	0.55
1:M:209:PHE:N	1:M:210:PRO:HD3	2.21	0.55
1:A:108:LYS:HD3	1:A:112:ASN:ND2	2.21	0.55
1:C:108:LYS:HD3	1:C:112:ASN:ND2	2.21	0.55
1:D:108:LYS:HD3	1:D:112:ASN:ND2	2.21	0.55
1:L:108:LYS:HD3	1:L:112:ASN:ND2	2.21	0.55
1:D:276:VAL:HG23	1:D:293:ILE:HG23	1.89	0.55
1:K:337:ASN:ND2	1:K:401:ASN:HD22	2.04	0.55
1:V:554:LEU:HD12	1:V:557:PHE:HD2	1.70	0.55
1:M:296:GLU:HG2	1:M:449:PHE:HB3	1.89	0.55
1:A:589:GLU:HA	1:A:592:TRP:HB2	1.89	0.55
1:U:578:GLN:HG2	1:U:596:ALA:HB2	1.88	0.55
1:E:589:GLU:HA	1:E:592:TRP:HB2	1.89	0.55
1:C:158:TRP:HB3	1:C:173:CYS:CA	2.36	0.55
1:D:380:ASN:O	1:D:381:SER:HB3	2.07	0.55
1:F:334:MSE:HE3	1:G:404:MSE:CE	2.37	0.55
1:L:34:PHE:HZ	1:L:328:ARG:HH22	0.80	0.55
1:P:44:TRP:C	1:P:45:LEU:HD22	2.27	0.55
1:P:47:GLN:HG2	1:P:48:TYR:N	2.20	0.55
1:W:510:ILE:HG12	1:W:511:ARG:N	2.20	0.55
1:V:302:PRO:O	1:V:439:ASN:ND2	2.40	0.55
1:H:380:ASN:O	1:H:381:SER:HB3	2.06	0.55
1:E:276:VAL:HG23	1:E:293:ILE:HG23	1.89	0.55
1:F:380:ASN:O	1:F:381:SER:HB3	2.06	0.55
1:C:337:ASN:ND2	1:C:401:ASN:HD22	2.04	0.55
1:R:86:ALA:HB2	1:R:515:GLU:HG3	1.87	0.55
3:R:719:HOH:O	1:X:430:VAL:CG1	2.55	0.55

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:589:GLU:HA	1:I:592:TRP:HB2	1.89	0.55
1:P:584:PRO:HG2	1:P:593:LEU:HD12	1.89	0.55
1:P:593:LEU:O	1:P:597:GLN:HG2	2.07	0.55
2:Y:27:GLY:HA2	2:Y:30:SER:HB3	1.88	0.55
1:D:311:GLU:O	1:D:312:ASP:HB2	2.07	0.55
1:G:161:ASN:C	1:G:161:ASN:ND2	2.59	0.54
1:H:158:TRP:HB3	1:H:173:CYS:CA	2.36	0.54
1:L:306:GLU:O	1:L:316:TYR:HA	2.07	0.54
1:L:37:ARG:CB	1:L:37:ARG:HH21	2.16	0.54
1:M:35:PHE:HE1	1:M:321:ARG:NH1	2.04	0.54
1:N:93:VAL:CG1	1:N:458:ARG:HG3	2.38	0.54
1:N:78:VAL:HG12	1:N:79:LEU:H	1.72	0.54
1:Q:35:PHE:CE1	1:Q:321:ARG:NE	2.75	0.54
1:S:44:TRP:C	1:S:45:LEU:HD22	2.27	0.54
1:X:44:TRP:CE2	1:X:54:ARG:HB3	2.42	0.54
1:E:236:GLN:CB	1:E:265:LYS:HG2	2.37	0.54
1:P:210:PRO:HD2	1:P:211:TRP:CD2	2.41	0.54
1:T:199:PRO:HB3	1:T:282:THR:HG22	1.87	0.54
1:J:108:LYS:HD3	1:J:112:ASN:ND2	2.21	0.54
1:I:276:VAL:HG23	1:I:293:ILE:HG23	1.89	0.54
1:K:380:ASN:O	1:K:381:SER:HB3	2.06	0.54
1:A:380:ASN:O	1:A:381:SER:HB3	2.07	0.54
1:B:337:ASN:ND2	1:B:401:ASN:HD22	2.04	0.54
1:L:311:GLU:O	1:L:312:ASP:HB2	2.07	0.54
1:P:389:LEU:HD12	1:P:389:LEU:H	1.73	0.54
1:S:593:LEU:O	1:S:597:GLN:HG2	2.06	0.54
1:Q:154:SER:O	1:Q:204:PRO:HB3	2.07	0.54
1:C:80:TYR:CE2	1:C:94:LEU:HD22	2.42	0.54
1:F:27:ARG:HB2	1:F:313:LYS:HE3	1.88	0.54
1:G:80:TYR:CE2	1:G:94:LEU:HD22	2.42	0.54
1:H:80:TYR:CE2	1:H:94:LEU:HD22	2.42	0.54
1:J:306:GLU:O	1:J:316:TYR:HA	2.07	0.54
1:K:34:PHE:HZ	1:K:328:ARG:HH22	0.80	0.54
1:J:72:ARG:HD2	1:K:434:THR:HG21	1.89	0.54
1:M:456:ALA:HB1	1:M:509:ASP:OD1	2.07	0.54
1:O:35:PHE:HE1	1:O:321:ARG:NH1	2.05	0.54
1:S:35:PHE:CE1	1:S:321:ARG:NE	2.75	0.54
1:X:165:MSE:HE3	1:X:304:PHE:HB2	1.88	0.54
1:S:546:THR:CG2	1:S:547:PRO:HD3	2.30	0.54
1:N:158:TRP:HD1	1:N:158:TRP:N	2.06	0.54
1:T:47:GLN:HG2	1:T:48:TYR:N	2.22	0.54
1:B:248:LYS:CG	1:B:511:ARG:HH11	2.19	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:236:GLN:CB	1:H:265:LYS:HZ3	2.16	0.54
1:A:235:TYR:HA	1:A:265:LYS:HB3	1.89	0.54
1:C:236:GLN:HE21	1:C:265:LYS:NZ	2.06	0.54
1:U:209:PHE:N	1:U:210:PRO:HD3	2.21	0.54
1:M:557:PHE:CE2	1:N:563:LYS:HD3	2.42	0.54
1:J:276:VAL:HG23	1:J:293:ILE:HG23	1.89	0.54
1:E:108:LYS:HD3	1:E:112:ASN:ND2	2.21	0.54
1:J:337:ASN:ND2	1:J:401:ASN:HD22	2.04	0.54
1:N:578:GLN:HG2	1:N:596:ALA:HB2	1.89	0.54
1:M:593:LEU:O	1:M:597:GLN:HG2	2.07	0.54
1:A:80:TYR:CE2	1:A:94:LEU:HD22	2.42	0.54
1:B:80:TYR:CE2	1:B:94:LEU:HD22	2.42	0.54
1:C:444:LEU:C	1:C:446:THR:N	2.61	0.54
1:E:306:GLU:O	1:E:316:TYR:HA	2.07	0.54
1:F:123:VAL:HG22	1:F:316:TYR:CE2	2.43	0.54
1:G:138:THR:H	1:G:143:VAL:HG22	1.73	0.54
1:I:158:TRP:HB3	1:I:173:CYS:CA	2.36	0.54
1:M:101:ASP:HB2	1:M:144:ILE:O	2.07	0.54
1:P:35:PHE:CE1	1:P:321:ARG:NE	2.76	0.54
1:P:78:VAL:CG1	1:P:79:LEU:N	2.70	0.54
1:U:93:VAL:CG1	1:U:458:ARG:HG3	2.36	0.54
1:T:510:ILE:HG12	1:T:511:ARG:N	2.22	0.54
1:E:236:GLN:HE21	1:E:265:LYS:NZ	2.06	0.54
1:P:209:PHE:N	1:P:210:PRO:HD3	2.21	0.54
1:U:209:PHE:HZ	1:U:214:GLN:HG2	1.71	0.54
1:T:94:LEU:HA	1:T:97:MSE:CE	2.36	0.54
1:F:337:ASN:ND2	1:F:401:ASN:HD22	2.04	0.54
1:C:311:GLU:O	1:C:312:ASP:HB2	2.07	0.54
1:K:589:GLU:HA	1:K:592:TRP:HB2	1.89	0.54
1:A:123:VAL:HG22	1:A:316:TYR:CE2	2.43	0.54
1:B:123:VAL:HG22	1:B:316:TYR:CE2	2.43	0.54
1:B:37:ARG:CB	1:B:37:ARG:HH21	2.16	0.54
1:C:306:GLU:O	1:C:316:TYR:HA	2.07	0.54
1:C:72:ARG:HD2	1:E:434:THR:HG21	1.90	0.54
1:D:444:LEU:C	1:D:446:THR:N	2.61	0.54
1:F:561:ASP:OD2	1:G:92:ASP:HB3	2.07	0.54
1:G:15:PHE:HZ	1:G:283:CYS:SG	2.31	0.54
1:J:123:VAL:HG22	1:J:316:TYR:CE2	2.43	0.54
1:J:80:TYR:CE2	1:J:94:LEU:HD22	2.42	0.54
1:U:26:ARG:HG2	1:X:212:LEU:HD22	1.88	0.54
1:X:35:PHE:CE1	1:X:321:ARG:NE	2.75	0.54
1:M:273:ARG:NH1	1:M:275:ARG:HE	2.05	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:158:TRP:N	1:M:158:TRP:HD1	2.04	0.54
1:M:302:PRO:O	1:M:439:ASN:ND2	2.41	0.54
1:C:236:GLN:CB	1:C:265:LYS:HG2	2.37	0.54
1:F:236:GLN:HE21	1:F:265:LYS:NZ	2.06	0.54
1:X:209:PHE:HZ	1:X:214:GLN:HG2	1.70	0.54
1:S:209:PHE:HZ	1:S:214:GLN:HG2	1.70	0.54
1:S:94:LEU:HA	1:S:97:MSE:CE	2.37	0.54
1:A:337:ASN:ND2	1:A:401:ASN:HD22	2.04	0.54
1:V:390:ALA:HB2	1:W:387:GLN:CB	2.38	0.54
1:T:584:PRO:HG2	1:T:593:LEU:HD12	1.90	0.54
1:S:154:SER:O	1:S:204:PRO:HB3	2.07	0.54
1:W:578:GLN:HG2	1:W:596:ALA:HB2	1.87	0.54
1:A:161:ASN:C	1:A:161:ASN:ND2	2.59	0.54
1:A:15:PHE:HZ	1:A:283:CYS:SG	2.31	0.54
1:D:15:PHE:HZ	1:D:283:CYS:SG	2.31	0.54
1:H:138:THR:H	1:H:143:VAL:HG22	1.73	0.54
1:I:47:GLN:H	1:I:47:GLN:CD	2.10	0.54
1:L:15:PHE:HZ	1:L:283:CYS:SG	2.31	0.54
1:L:47:GLN:H	1:L:47:GLN:CD	2.10	0.54
1:M:47:GLN:HG2	1:M:48:TYR:N	2.22	0.54
1:O:101:ASP:HB2	1:O:144:ILE:O	2.07	0.54
2:Z:42:MET:HE3	2:Z:78:GLU:OE1	2.08	0.54
1:P:35:PHE:C	1:P:37:ARG:H	2.11	0.54
1:Q:561:ASP:CB	1:R:89:ASP:HA	2.31	0.54
1:U:144:ILE:HD12	1:U:145:ARG:N	2.22	0.54
1:V:93:VAL:CG1	1:V:458:ARG:HG3	2.37	0.54
1:K:236:GLN:HE21	1:K:265:LYS:NZ	2.06	0.54
1:D:235:TYR:HA	1:D:265:LYS:HB3	1.89	0.54
1:H:235:TYR:HA	1:H:265:LYS:HB3	1.89	0.54
1:I:236:GLN:CB	1:I:265:LYS:HG2	2.37	0.54
1:C:273:ARG:NH2	1:C:453:LEU:HD21	2.21	0.54
1:F:236:GLN:CB	1:F:265:LYS:HZ3	2.16	0.54
1:X:209:PHE:N	1:X:210:PRO:HD3	2.21	0.54
1:R:66:LYS:NZ	1:R:420:VAL:HG11	2.22	0.54
1:T:66:LYS:NZ	1:T:420:VAL:HG11	2.23	0.54
1:M:584:PRO:HG2	1:M:593:LEU:HD12	1.90	0.54
1:F:589:GLU:HA	1:F:592:TRP:HB2	1.89	0.54
1:T:387:GLN:HB2	1:W:390:ALA:HB2	1.90	0.54
1:F:311:GLU:O	1:F:312:ASP:HB2	2.07	0.54
1:I:311:GLU:O	1:I:312:ASP:HB2	2.07	0.54
1:E:44:TRP:C	1:E:45:LEU:HD22	2.28	0.54
1:G:306:GLU:O	1:G:316:TYR:HA	2.07	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:444:LEU:C	1:H:446:THR:N	2.61	0.54
1:H:44:TRP:C	1:H:45:LEU:HD22	2.28	0.54
1:I:306:GLU:O	1:I:316:TYR:HA	2.07	0.54
1:J:138:THR:H	1:J:143:VAL:HG22	1.73	0.54
1:J:34:PHE:HZ	1:J:328:ARG:HH22	0.80	0.54
1:K:306:GLU:O	1:K:316:TYR:HA	2.07	0.54
1:K:37:ARG:HH21	1:K:37:ARG:CB	2.16	0.54
1:Q:78:VAL:HG12	1:Q:79:LEU:H	1.70	0.54
1:S:46:SER:N	1:S:48:TYR:HE2	1.99	0.54
1:V:144:ILE:HD12	1:V:145:ARG:N	2.22	0.54
1:M:510:ILE:HG12	1:M:511:ARG:N	2.22	0.54
1:P:302:PRO:O	1:P:439:ASN:ND2	2.41	0.54
1:P:273:ARG:NH1	1:P:275:ARG:HE	2.06	0.54
1:A:273:ARG:NH2	1:A:453:LEU:HD21	2.21	0.54
1:W:456:ALA:HB1	1:W:509:ASP:OD1	2.08	0.54
1:R:573:ASN:O	1:R:577:ILE:HG13	2.08	0.54
1:T:420:VAL:HG22	1:T:428:GLY:HA3	1.90	0.54
1:N:95:MSE:HB3	1:N:527:MSE:HE1	1.88	0.54
1:Q:593:LEU:O	1:Q:597:GLN:HG2	2.08	0.54
2:Z:27:GLY:HA2	2:Z:30:SER:HB3	1.88	0.54
1:K:311:GLU:O	1:K:312:ASP:HB2	2.07	0.54
1:K:27:ARG:HB2	1:K:313:LYS:HE3	1.89	0.54
1:H:311:GLU:O	1:H:312:ASP:HB2	2.07	0.54
1:G:372:TYR:CE2	1:H:348:LYS:HB2	2.42	0.54
1:X:420:VAL:HG22	1:X:428:GLY:HA3	1.90	0.54
1:A:47:GLN:H	1:A:47:GLN:CD	2.10	0.54
1:C:138:THR:H	1:C:143:VAL:HG22	1.73	0.54
1:D:561:ASP:OD2	1:F:92:ASP:HB3	2.07	0.54
1:H:27:ARG:HB2	1:H:313:LYS:HE3	1.89	0.54
1:O:81:ARG:HB2	1:O:517:TYR:CZ	2.42	0.54
1:S:456:ALA:HB1	1:S:509:ASP:OD1	2.07	0.54
1:U:444:LEU:C	1:U:446:THR:H	2.11	0.54
1:X:71:MSE:HE2	1:X:119:ILE:HD11	1.88	0.54
2:Z:71:ASP:O	2:Z:72:ASP:HB3	2.08	0.54
1:W:46:SER:N	1:W:48:TYR:HE2	1.97	0.54
1:G:236:GLN:CB	1:G:265:LYS:HG2	2.37	0.54
1:D:236:GLN:HE21	1:D:265:LYS:NZ	2.06	0.54
1:H:236:GLN:HE21	1:H:265:LYS:NZ	2.06	0.54
1:L:235:TYR:HA	1:L:265:LYS:HB3	1.89	0.54
1:S:40:GLN:HG2	1:T:310:VAL:HG22	1.90	0.54
1:D:384:LEU:N	1:D:384:LEU:HD22	2.23	0.54
1:R:154:SER:O	1:R:204:PRO:HB3	2.08	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:66:LYS:NZ	1:W:420:VAL:HG11	2.23	0.54
1:T:296:GLU:HG2	1:T:449:PHE:HB3	1.89	0.54
1:B:306:GLU:O	1:B:316:TYR:HA	2.07	0.54
1:C:44:TRP:C	1:C:45:LEU:HD22	2.28	0.54
1:E:123:VAL:HG22	1:E:316:TYR:CE2	2.43	0.54
1:J:44:TRP:C	1:J:45:LEU:HD22	2.28	0.54
1:J:47:GLN:O	1:J:47:GLN:NE2	2.41	0.54
1:K:15:PHE:HZ	1:K:283:CYS:SG	2.31	0.54
1:K:44:TRP:C	1:K:45:LEU:HD22	2.28	0.54
1:K:47:GLN:O	1:K:47:GLN:NE2	2.41	0.54
1:M:78:VAL:HG12	1:M:79:LEU:H	1.73	0.54
1:S:47:GLN:HG2	1:S:48:TYR:N	2.22	0.54
1:V:101:ASP:HB2	1:V:144:ILE:O	2.08	0.54
1:V:80:TYR:CE1	1:V:448:VAL:HG22	2.43	0.54
1:I:14:ARG:CA	1:I:14:ARG:NE	2.67	0.54
1:G:236:GLN:HE21	1:G:265:LYS:NZ	2.06	0.54
1:X:66:LYS:HZ3	1:X:420:VAL:HG11	1.73	0.54
2:Y:58:GLN:H	2:Y:62:GLY:HA3	1.73	0.54
1:O:593:LEU:O	1:O:597:GLN:HG2	2.07	0.54
1:C:27:ARG:HB2	1:C:313:LYS:HE3	1.89	0.54
1:D:35:PHE:C	1:D:37:ARG:N	2.62	0.54
1:D:47:GLN:O	1:D:47:GLN:NE2	2.41	0.54
1:D:80:TYR:CE2	1:D:94:LEU:HD22	2.42	0.54
1:E:37:ARG:HH21	1:E:37:ARG:CB	2.16	0.54
1:G:35:PHE:C	1:G:37:ARG:N	2.62	0.54
1:G:80:TYR:CE1	1:G:448:VAL:HG22	2.43	0.54
1:H:123:VAL:HG22	1:H:316:TYR:CE2	2.43	0.54
1:I:15:PHE:HZ	1:I:283:CYS:SG	2.31	0.54
1:I:47:GLN:NE2	1:I:47:GLN:O	2.41	0.54
1:K:80:TYR:CE1	1:K:448:VAL:HG22	2.43	0.54
1:M:93:VAL:CG1	1:M:458:ARG:HG3	2.37	0.54
1:L:80:TYR:CE2	1:L:94:LEU:HD22	2.42	0.54
2:Y:78:GLU:CD	2:Y:79:GLY:H	2.11	0.54
1:Q:405:LEU:O	1:Q:409:THR:HG23	2.08	0.54
1:J:235:TYR:HA	1:J:265:LYS:HB3	1.89	0.54
1:J:236:GLN:CB	1:J:265:LYS:HG2	2.37	0.54
1:B:236:GLN:HE21	1:B:265:LYS:NZ	2.06	0.54
1:B:234:ILE:HG13	1:B:267:ALA:HB3	1.90	0.54
1:F:234:ILE:HG13	1:F:267:ALA:HB3	1.90	0.54
1:Q:209:PHE:HZ	1:Q:214:GLN:HG2	1.70	0.54
1:M:209:PHE:HZ	1:M:214:GLN:HG2	1.70	0.54
1:O:236:GLN:HA	1:O:244:VAL:H	1.73	0.54

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:108:LYS:HD3	1:G:112:ASN:ND2	2.21	0.54
1:U:420:VAL:HG22	1:U:428:GLY:HA3	1.89	0.54
1:E:384:LEU:HD22	1:E:384:LEU:N	2.23	0.54
1:W:584:PRO:HG2	1:W:593:LEU:HD12	1.89	0.54
1:O:584:PRO:HG2	1:O:593:LEU:HD12	1.90	0.54
1:W:81:ARG:HB2	1:W:517:TYR:CZ	2.43	0.54
1:B:311:GLU:O	1:B:312:ASP:HB2	2.07	0.54
1:A:528:LYS:HZ2	1:A:560:LEU:HD21	1.72	0.54
1:D:123:VAL:HG22	1:D:316:TYR:CE2	2.43	0.54
1:E:138:THR:H	1:E:143:VAL:HG22	1.73	0.54
1:F:560:LEU:O	1:F:561:ASP:O	2.26	0.54
1:F:80:TYR:CE1	1:F:448:VAL:HG22	2.43	0.54
1:G:158:TRP:HB3	1:G:173:CYS:CA	2.36	0.54
1:G:44:TRP:C	1:G:45:LEU:HD22	2.28	0.54
1:J:15:PHE:HZ	1:J:283:CYS:SG	2.31	0.54
1:J:560:LEU:O	1:J:561:ASP:O	2.26	0.54
1:K:14:ARG:NE	1:K:14:ARG:CA	2.67	0.54
1:K:47:GLN:H	1:K:47:GLN:CD	2.10	0.54
1:L:123:VAL:HG22	1:L:316:TYR:CE2	2.43	0.54
1:Q:344:THR:HG23	1:Q:344:THR:O	2.07	0.54
2:Z:78:GLU:CD	2:Z:79:GLY:H	2.11	0.54
1:N:101:ASP:HB2	1:N:144:ILE:O	2.08	0.54
1:N:47:GLN:HG2	1:N:48:TYR:N	2.22	0.54
1:S:444:LEU:C	1:S:446:THR:H	2.11	0.54
1:T:123:VAL:HG22	1:T:316:TYR:CE2	2.42	0.54
1:G:266:ILE:HG23	1:G:267:ALA:N	2.23	0.54
1:O:563:LYS:HD3	1:P:557:PHE:CE2	2.42	0.54
1:S:66:LYS:NZ	1:S:420:VAL:HG11	2.22	0.54
1:J:579:MSE:HB2	1:J:581:VAL:HG12	1.90	0.54
1:U:390:ALA:HB2	1:X:387:GLN:HB2	1.89	0.54
1:Q:584:PRO:HG2	1:Q:593:LEU:HD12	1.90	0.54
1:X:66:LYS:NZ	1:X:420:VAL:HG11	2.23	0.54
1:U:191:TYR:HE1	1:U:278:LYS:HZ3	1.56	0.54
1:G:589:GLU:HA	1:G:592:TRP:HB2	1.89	0.54
1:B:35:PHE:C	1:B:37:ARG:N	2.61	0.53
1:C:161:ASN:ND2	1:C:161:ASN:C	2.59	0.53
1:C:80:TYR:CE1	1:C:448:VAL:HG22	2.43	0.53
1:E:47:GLN:H	1:E:47:GLN:CD	2.10	0.53
1:H:47:GLN:NE2	1:H:47:GLN:O	2.41	0.53
1:H:78:VAL:HG11	1:H:444:LEU:HG	1.90	0.53
1:K:123:VAL:HG22	1:K:316:TYR:CE2	2.43	0.53
1:K:35:PHE:C	1:K:37:ARG:N	2.61	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:444:LEU:O	1:M:448:VAL:HG23	2.08	0.53
1:M:81:ARG:HB2	1:M:517:TYR:CZ	2.43	0.53
1:K:560:LEU:O	1:K:561:ASP:O	2.26	0.53
1:P:101:ASP:HB2	1:P:144:ILE:O	2.08	0.53
1:P:444:LEU:C	1:P:446:THR:H	2.11	0.53
1:U:78:VAL:CG2	1:U:444:LEU:HD11	2.22	0.53
2:Y:78:GLU:HG3	2:Y:79:GLY:N	2.20	0.53
1:K:234:ILE:HG13	1:K:267:ALA:HB3	1.90	0.53
1:H:266:ILE:HG23	1:H:267:ALA:N	2.23	0.53
1:N:273:ARG:NH1	1:N:275:ARG:HE	2.05	0.53
1:E:234:ILE:HG13	1:E:267:ALA:HB3	1.91	0.53
1:F:266:ILE:HG23	1:F:267:ALA:N	2.23	0.53
1:P:209:PHE:HZ	1:P:214:GLN:HG2	1.70	0.53
1:W:94:LEU:HA	1:W:97:MSE:CE	2.37	0.53
1:V:389:LEU:H	1:V:389:LEU:HD12	1.72	0.53
1:F:384:LEU:N	1:F:384:LEU:HD22	2.23	0.53
1:G:384:LEU:N	1:G:384:LEU:HD22	2.23	0.53
1:N:535:ILE:HD13	1:N:554:LEU:HG	1.89	0.53
1:U:390:ALA:HB2	1:X:387:GLN:CB	2.38	0.53
1:U:58:ASP:HA	1:U:327:GLN:NE2	2.23	0.53
1:M:389:LEU:H	1:M:389:LEU:HD12	1.72	0.53
1:O:296:GLU:HG2	1:O:449:PHE:HB3	1.89	0.53
1:N:389:LEU:HD12	1:N:389:LEU:H	1.72	0.53
1:A:37:ARG:HH21	1:A:37:ARG:CB	2.16	0.53
1:B:47:GLN:NE2	1:B:47:GLN:O	2.41	0.53
1:C:35:PHE:C	1:C:37:ARG:N	2.62	0.53
1:C:47:GLN:H	1:C:47:GLN:CD	2.10	0.53
1:C:47:GLN:NE2	1:C:47:GLN:O	2.41	0.53
1:E:80:TYR:CE1	1:E:448:VAL:HG22	2.43	0.53
1:G:444:LEU:C	1:G:446:THR:N	2.61	0.53
1:G:560:LEU:O	1:G:561:ASP:O	2.26	0.53
1:G:78:VAL:HG11	1:G:444:LEU:HG	1.90	0.53
1:H:306:GLU:O	1:H:316:TYR:HA	2.07	0.53
1:I:78:VAL:HG11	1:I:444:LEU:HG	1.90	0.53
1:I:560:LEU:O	1:I:561:ASP:O	2.26	0.53
1:I:80:TYR:CE1	1:I:448:VAL:HG22	2.43	0.53
1:J:35:PHE:C	1:J:37:ARG:N	2.61	0.53
1:J:78:VAL:HG11	1:J:444:LEU:HG	1.90	0.53
1:O:434:THR:HA	1:O:437:GLN:HG2	1.90	0.53
1:B:328:ARG:HB3	2:Y:142:PRO:HG3	1.90	0.53
1:O:344:THR:O	1:O:344:THR:HG23	2.08	0.53
1:N:456:ALA:HB1	1:N:509:ASP:OD1	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:46:SER:N	1:N:48:TYR:HE2	1.98	0.53
1:Q:66:LYS:NZ	1:Q:420:VAL:HG11	2.23	0.53
1:U:35:PHE:C	1:U:37:ARG:H	2.11	0.53
1:W:434:THR:O	1:W:437:GLN:HG2	2.08	0.53
1:X:37:ARG:HH21	1:X:37:ARG:CB	2.20	0.53
1:P:405:LEU:O	1:P:409:THR:HG23	2.08	0.53
1:B:273:ARG:NH2	1:B:453:LEU:HD21	2.21	0.53
1:A:236:GLN:CB	1:A:265:LYS:HG2	2.37	0.53
1:A:236:GLN:HE21	1:A:265:LYS:NZ	2.06	0.53
1:I:236:GLN:HE21	1:I:265:LYS:NZ	2.06	0.53
1:L:234:ILE:HG13	1:L:267:ALA:HB3	1.90	0.53
1:G:177:HIS:O	1:G:218:GLN:HA	2.08	0.53
1:S:584:PRO:HG2	1:S:593:LEU:HD12	1.89	0.53
1:E:311:GLU:O	1:E:312:ASP:HB2	2.07	0.53
1:M:398:PRO:HB3	1:N:395:PRO:HD2	1.90	0.53
1:W:154:SER:O	1:W:204:PRO:HB3	2.08	0.53
1:J:191:TYR:HE1	1:J:278:LYS:HZ3	1.54	0.53
1:L:177:HIS:O	1:L:218:GLN:HA	2.09	0.53
1:C:123:VAL:HG22	1:C:316:TYR:CE2	2.43	0.53
1:E:35:PHE:C	1:E:37:ARG:N	2.62	0.53
1:F:138:THR:H	1:F:143:VAL:HG22	1.73	0.53
1:F:78:VAL:HG11	1:F:444:LEU:HG	1.90	0.53
1:G:123:VAL:HG22	1:G:316:TYR:CE2	2.43	0.53
1:I:80:TYR:CE2	1:I:94:LEU:HD22	2.42	0.53
1:K:78:VAL:HG11	1:K:444:LEU:HG	1.91	0.53
1:N:81:ARG:HB2	1:N:517:TYR:CZ	2.44	0.53
1:R:47:GLN:HG2	1:R:48:TYR:N	2.23	0.53
1:S:35:PHE:C	1:S:37:ARG:H	2.12	0.53
1:S:80:TYR:CE1	1:S:448:VAL:HG22	2.43	0.53
1:S:26:ARG:HG2	1:U:212:LEU:HD22	1.90	0.53
1:V:66:LYS:NZ	1:V:420:VAL:HG11	2.22	0.53
1:W:344:THR:O	1:W:344:THR:HG23	2.08	0.53
1:W:273:ARG:NH1	1:W:275:ARG:HE	2.06	0.53
1:J:266:ILE:HG23	1:J:267:ALA:N	2.23	0.53
1:D:266:ILE:HG23	1:D:267:ALA:N	2.23	0.53
1:A:266:ILE:HG23	1:A:267:ALA:N	2.23	0.53
1:N:236:GLN:HA	1:N:244:VAL:H	1.74	0.53
1:P:66:LYS:NZ	1:P:420:VAL:HG11	2.24	0.53
1:H:276:VAL:HG23	1:H:293:ILE:HG23	1.89	0.53
1:L:276:VAL:HG23	1:L:293:ILE:HG23	1.89	0.53
1:B:384:LEU:HD22	1:B:384:LEU:N	2.23	0.53
1:C:384:LEU:HD22	1:C:384:LEU:N	2.23	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:593:LEU:O	1:T:597:GLN:HG2	2.08	0.53
1:X:593:LEU:O	1:X:597:GLN:HG2	2.08	0.53
1:J:311:GLU:O	1:J:312:ASP:HB2	2.07	0.53
1:O:154:SER:O	1:O:204:PRO:HB3	2.07	0.53
1:A:560:LEU:O	1:A:561:ASP:O	2.26	0.53
1:B:138:THR:H	1:B:143:VAL:HG22	1.73	0.53
1:B:15:PHE:HZ	1:B:283:CYS:SG	2.31	0.53
1:B:47:GLN:H	1:B:47:GLN:CD	2.10	0.53
1:D:78:VAL:HG11	1:D:444:LEU:HG	1.90	0.53
1:D:44:TRP:C	1:D:45:LEU:HD22	2.28	0.53
1:C:334:MSE:HE3	1:E:404:MSE:HE3	1.90	0.53
1:E:47:GLN:O	1:E:47:GLN:NE2	2.41	0.53
1:H:560:LEU:O	1:H:561:ASP:O	2.26	0.53
1:I:27:ARG:HB2	1:I:313:LYS:HE3	1.89	0.53
1:I:44:TRP:C	1:I:45:LEU:HD22	2.28	0.53
1:K:138:THR:H	1:K:143:VAL:HG22	1.73	0.53
1:M:44:TRP:CE2	1:M:54:ARG:HB3	2.43	0.53
1:O:444:LEU:O	1:O:448:VAL:HG23	2.08	0.53
1:L:78:VAL:HG11	1:L:444:LEU:HG	1.90	0.53
1:L:80:TYR:CE1	1:L:448:VAL:HG22	2.43	0.53
1:N:44:TRP:CE2	1:N:54:ARG:HB3	2.43	0.53
1:T:158:TRP:HD1	1:T:158:TRP:N	2.07	0.53
1:T:44:TRP:C	1:T:45:LEU:HD22	2.29	0.53
1:V:420:VAL:HG22	1:V:428:GLY:HA3	1.90	0.53
1:W:35:PHE:HE1	1:W:321:ARG:NH1	2.05	0.53
1:W:44:TRP:C	1:W:45:LEU:HD22	2.28	0.53
1:W:78:VAL:CG1	1:W:79:LEU:N	2.71	0.53
1:K:235:TYR:HA	1:K:265:LYS:HB3	1.89	0.53
1:K:266:ILE:HG23	1:K:267:ALA:N	2.23	0.53
1:G:273:ARG:NH2	1:G:453:LEU:HD21	2.21	0.53
1:H:236:GLN:CB	1:H:265:LYS:HG2	2.37	0.53
1:E:266:ILE:HG23	1:E:267:ALA:N	2.23	0.53
1:Q:236:GLN:HA	1:Q:244:VAL:H	1.74	0.53
1:P:236:GLN:HA	1:P:244:VAL:H	1.72	0.53
1:F:276:VAL:HG23	1:F:293:ILE:HG23	1.89	0.53
1:G:276:VAL:HG23	1:G:293:ILE:HG23	1.89	0.53
1:F:177:HIS:O	1:F:218:GLN:HA	2.09	0.53
1:K:579:MSE:HB2	1:K:581:VAL:HG12	1.91	0.53
1:A:384:LEU:N	1:A:384:LEU:HD22	2.23	0.53
1:P:58:ASP:HA	1:P:327:GLN:NE2	2.24	0.53
1:N:584:PRO:HG2	1:N:593:LEU:HD12	1.91	0.53
3:Q:718:HOH:O	1:R:438:LEU:HD22	2.08	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:177:HIS:O	1:B:218:GLN:HA	2.09	0.53
1:V:584:PRO:HG2	1:V:593:LEU:HD12	1.90	0.53
1:O:427:GLY:C	1:O:429:GLN:H	2.12	0.53
1:R:395:PRO:HD2	1:X:398:PRO:HB3	1.90	0.53
1:A:80:TYR:CE1	1:A:448:VAL:HG22	2.43	0.53
1:C:78:VAL:HG11	1:C:444:LEU:HG	1.90	0.53
1:E:15:PHE:HZ	1:E:283:CYS:SG	2.31	0.53
1:F:15:PHE:HZ	1:F:283:CYS:SG	2.31	0.53
1:F:78:VAL:CG1	1:F:79:LEU:N	2.72	0.53
1:L:44:TRP:C	1:L:45:LEU:HD22	2.28	0.53
1:O:66:LYS:NZ	1:O:420:VAL:HG11	2.23	0.53
1:P:78:VAL:HG12	1:P:79:LEU:H	1.69	0.53
1:Q:444:LEU:C	1:Q:446:THR:H	2.12	0.53
1:S:44:TRP:CE2	1:S:54:ARG:HB3	2.44	0.53
1:T:444:LEU:O	1:T:448:VAL:HG23	2.09	0.53
1:T:78:VAL:HG12	1:T:79:LEU:H	1.72	0.53
1:W:123:VAL:HG22	1:W:316:TYR:CE2	2.43	0.53
1:L:266:ILE:HG23	1:L:267:ALA:N	2.23	0.53
1:U:380:ASN:O	1:U:381:SER:HB3	2.08	0.53
1:H:177:HIS:O	1:H:218:GLN:HA	2.09	0.53
1:N:593:LEU:O	1:N:597:GLN:HG2	2.08	0.53
1:G:229:LYS:HA	1:G:272:LYS:HA	1.90	0.53
1:T:344:THR:HG23	1:T:344:THR:O	2.06	0.53
1:A:35:PHE:C	1:A:37:ARG:N	2.62	0.53
1:A:44:TRP:C	1:A:45:LEU:HD22	2.28	0.53
1:A:78:VAL:CG1	1:A:79:LEU:N	2.72	0.53
1:B:444:LEU:C	1:B:446:THR:N	2.61	0.53
1:D:138:THR:H	1:D:143:VAL:HG22	1.73	0.53
1:E:158:TRP:HB3	1:E:173:CYS:CA	2.36	0.53
1:H:35:PHE:C	1:H:37:ARG:N	2.62	0.53
1:H:78:VAL:CG1	1:H:79:LEU:N	2.72	0.53
1:J:444:LEU:C	1:J:446:THR:N	2.61	0.53
1:O:47:GLN:HG2	1:O:48:TYR:N	2.23	0.53
1:B:329:LEU:HD22	2:Y:142:PRO:HG2	1.89	0.53
1:Q:44:TRP:CE2	1:Q:54:ARG:HB3	2.44	0.53
1:R:101:ASP:HB2	1:R:144:ILE:O	2.08	0.53
1:U:101:ASP:HB2	1:U:144:ILE:O	2.09	0.53
1:U:81:ARG:HB2	1:U:517:TYR:CZ	2.44	0.53
1:W:144:ILE:HD12	1:W:145:ARG:N	2.24	0.53
1:X:47:GLN:HG2	1:X:48:TYR:N	2.24	0.53
1:J:27:ARG:HB2	1:J:313:LYS:HE3	1.89	0.53
1:J:236:GLN:HE21	1:J:265:LYS:NZ	2.06	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:511:ARG:HA	1:I:513:ARG:HD2	1.91	0.53
1:C:511:ARG:HA	1:C:513:ARG:HD2	1.91	0.53
1:F:236:GLN:CB	1:F:265:LYS:HG2	2.37	0.53
1:M:236:GLN:HA	1:M:244:VAL:H	1.74	0.53
1:S:236:GLN:HA	1:S:244:VAL:H	1.74	0.53
1:B:276:VAL:HG23	1:B:293:ILE:HG23	1.89	0.53
1:M:94:LEU:HA	1:M:97:MSE:CE	2.38	0.53
1:I:579:MSE:HB2	1:I:581:VAL:HG12	1.90	0.53
1:F:579:MSE:HB2	1:F:581:VAL:HG12	1.90	0.53
1:T:380:ASN:O	1:T:381:SER:HB3	2.09	0.53
1:I:384:LEU:N	1:I:384:LEU:HD22	2.23	0.53
1:R:380:ASN:O	1:R:381:SER:HB3	2.09	0.53
1:J:177:HIS:O	1:J:218:GLN:HA	2.09	0.53
1:X:584:PRO:HG2	1:X:593:LEU:HD12	1.90	0.53
1:V:593:LEU:O	1:V:597:GLN:HG2	2.08	0.53
1:J:229:LYS:HA	1:J:272:LYS:HA	1.90	0.53
1:B:80:TYR:CE1	1:B:448:VAL:HG22	2.43	0.53
1:E:32:ASP:HA	1:E:35:PHE:CE1	2.44	0.53
1:E:78:VAL:HG11	1:E:444:LEU:HG	1.91	0.53
1:G:78:VAL:CG1	1:G:79:LEU:N	2.72	0.53
1:I:123:VAL:HG22	1:I:316:TYR:CE2	2.43	0.53
1:J:80:TYR:CE1	1:J:448:VAL:HG22	2.43	0.53
1:N:66:LYS:NZ	1:N:420:VAL:HG11	2.23	0.53
1:Q:35:PHE:C	1:Q:37:ARG:H	2.12	0.53
1:Q:165:MSE:HE1	1:Q:435:VAL:HB	1.91	0.53
1:R:78:VAL:HG12	1:R:79:LEU:H	1.72	0.53
1:S:123:VAL:HG22	1:S:316:TYR:CE2	2.44	0.53
1:T:80:TYR:CE1	1:T:448:VAL:HG22	2.44	0.53
1:V:81:ARG:HB2	1:V:517:TYR:CZ	2.44	0.53
1:W:35:PHE:C	1:W:37:ARG:H	2.10	0.53
1:W:44:TRP:CE2	1:W:54:ARG:HB3	2.44	0.53
1:W:47:GLN:HG2	1:W:48:TYR:N	2.23	0.53
1:J:511:ARG:HA	1:J:513:ARG:HD2	1.91	0.53
1:K:511:ARG:HA	1:K:513:ARG:HD2	1.91	0.53
1:C:234:ILE:HG13	1:C:267:ALA:HB3	1.91	0.53
1:L:236:GLN:HE21	1:L:265:LYS:NZ	2.06	0.53
1:U:236:GLN:HA	1:U:244:VAL:H	1.73	0.53
1:V:598:GLN:HB2	1:V:601:GLN:HB2	1.91	0.53
1:X:380:ASN:O	1:X:381:SER:HB3	2.07	0.53
1:T:58:ASP:HA	1:T:327:GLN:NE2	2.24	0.53
1:I:177:HIS:O	1:I:218:GLN:HA	2.09	0.53
1:A:311:GLU:O	1:A:312:ASP:HB2	2.07	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:348:LYS:HB2	1:X:372:TYR:CE2	2.43	0.53
1:C:177:HIS:O	1:C:218:GLN:HA	2.09	0.53
1:U:389:LEU:HD12	1:U:389:LEU:H	1.73	0.53
1:B:32:ASP:HA	1:B:35:PHE:CE1	2.44	0.53
1:B:44:TRP:C	1:B:45:LEU:HD22	2.28	0.53
1:F:32:ASP:HA	1:F:35:PHE:CE1	2.44	0.53
1:H:32:ASP:HA	1:H:35:PHE:CE1	2.44	0.53
1:L:47:GLN:NE2	1:L:47:GLN:O	2.41	0.53
1:M:35:PHE:CE1	1:M:321:ARG:NE	2.75	0.53
1:M:344:THR:O	1:M:344:THR:HG23	2.07	0.53
1:P:456:ALA:HB1	1:P:509:ASP:OD1	2.09	0.53
1:Q:41:TRP:HE1	1:R:27:ARG:NH2	2.07	0.53
1:R:35:PHE:C	1:R:37:ARG:H	2.11	0.53
1:R:456:ALA:HB1	1:R:509:ASP:OD1	2.08	0.53
1:V:35:PHE:HE1	1:V:321:ARG:NH1	2.06	0.53
1:X:44:TRP:C	1:X:45:LEU:HD22	2.29	0.53
2:Y:71:ASP:O	2:Y:72:ASP:HB3	2.08	0.53
1:A:234:ILE:HG13	1:A:267:ALA:HB3	1.90	0.53
1:A:511:ARG:HA	1:A:513:ARG:HD2	1.91	0.53
1:F:511:ARG:HA	1:F:513:ARG:HD2	1.91	0.53
1:U:352:TRP:CG	1:X:376:ARG:HB2	2.44	0.53
1:U:66:LYS:NZ	1:U:420:VAL:HG11	2.23	0.53
1:A:276:VAL:HG23	1:A:293:ILE:HG23	1.89	0.53
1:D:177:HIS:O	1:D:218:GLN:HA	2.09	0.53
1:A:177:HIS:O	1:A:218:GLN:HA	2.09	0.53
1:E:177:HIS:O	1:E:218:GLN:HA	2.09	0.53
1:H:384:LEU:HD22	1:H:384:LEU:N	2.23	0.53
1:R:593:LEU:O	1:R:597:GLN:HG2	2.08	0.53
1:F:395:PRO:HD2	1:G:398:PRO:HB3	1.91	0.53
1:V:351:PHE:CD2	1:V:356:ILE:HD12	2.44	0.53
2:Z:58:GLN:H	2:Z:62:GLY:HA3	1.73	0.53
1:H:229:LYS:HA	1:H:272:LYS:HA	1.90	0.53
1:U:593:LEU:O	1:U:597:GLN:HG2	2.08	0.53
1:I:229:LYS:HA	1:I:272:LYS:HA	1.90	0.53
1:A:138:THR:H	1:A:143:VAL:HG22	1.73	0.53
1:A:47:GLN:NE2	1:A:47:GLN:O	2.41	0.53
1:C:560:LEU:O	1:C:561:ASP:O	2.26	0.53
1:D:560:LEU:O	1:D:561:ASP:O	2.26	0.53
1:H:80:TYR:CE1	1:H:448:VAL:HG22	2.43	0.53
1:L:35:PHE:C	1:L:37:ARG:N	2.61	0.53
1:M:444:LEU:C	1:M:446:THR:H	2.13	0.53
1:N:35:PHE:HE1	1:N:321:ARG:NH1	2.05	0.53

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:434:THR:HA	1:N:437:GLN:HG2	1.90	0.53
1:N:434:THR:O	1:N:437:GLN:HG2	2.09	0.53
1:Q:420:VAL:HG22	1:Q:428:GLY:HA3	1.91	0.53
1:Q:81:ARG:HB2	1:Q:517:TYR:CZ	2.44	0.53
1:V:158:TRP:HD1	1:V:158:TRP:N	2.07	0.53
1:N:302:PRO:O	1:N:439:ASN:ND2	2.41	0.53
1:H:511:ARG:HA	1:H:513:ARG:HD2	1.91	0.53
1:E:511:ARG:HA	1:E:513:ARG:HD2	1.91	0.53
1:Q:427:GLY:C	1:Q:429:GLN:H	2.12	0.53
1:P:55:GLY:HA3	1:P:57:PHE:CE1	2.44	0.53
1:E:229:LYS:HA	1:E:272:LYS:HA	1.90	0.53
1:L:229:LYS:HA	1:L:272:LYS:HA	1.90	0.53
1:M:351:PHE:CD2	1:M:356:ILE:HD12	2.43	0.53
1:D:34:PHE:HZ	1:D:328:ARG:HH22	0.80	0.53
1:D:80:TYR:CE1	1:D:448:VAL:HG22	2.43	0.53
1:E:35:PHE:HE2	1:E:324:LYS:NZ	2.07	0.53
1:H:15:PHE:HZ	1:H:283:CYS:SG	2.31	0.53
1:S:101:ASP:HB2	1:S:144:ILE:O	2.09	0.53
1:T:35:PHE:CE1	1:T:321:ARG:NE	2.76	0.53
1:V:325:ASP:O	1:V:329:LEU:HD23	2.09	0.53
1:V:35:PHE:C	1:V:37:ARG:H	2.11	0.53
1:W:80:TYR:CE1	1:W:448:VAL:HG22	2.44	0.53
1:X:325:ASP:O	1:X:329:LEU:HD23	2.09	0.53
1:X:80:TYR:CE1	1:X:448:VAL:HG22	2.44	0.53
1:P:71:MSE:HE2	1:P:119:ILE:HD11	1.90	0.53
1:W:302:PRO:O	1:W:439:ASN:ND2	2.42	0.53
1:Q:71:MSE:HE2	1:Q:119:ILE:HD11	1.91	0.53
1:D:511:ARG:HA	1:D:513:ARG:HD2	1.91	0.53
1:B:560:LEU:O	1:B:561:ASP:O	2.26	0.53
1:I:266:ILE:HG23	1:I:267:ALA:N	2.23	0.53
1:L:511:ARG:HA	1:L:513:ARG:HD2	1.91	0.53
1:V:236:GLN:HA	1:V:244:VAL:H	1.73	0.53
1:B:334:MSE:HE3	1:C:404:MSE:CE	2.39	0.53
1:M:380:ASN:O	1:M:381:SER:HB3	2.09	0.53
1:X:389:LEU:H	1:X:389:LEU:HD12	1.74	0.53
1:B:78:VAL:HG11	1:B:444:LEU:HG	1.90	0.52
1:F:35:PHE:C	1:F:37:ARG:N	2.62	0.52
1:F:47:GLN:NE2	1:F:47:GLN:O	2.41	0.52
1:G:32:ASP:HA	1:G:35:PHE:CE1	2.44	0.52
1:I:138:THR:H	1:I:143:VAL:HG22	1.73	0.52
1:I:15:PHE:CZ	1:I:283:CYS:HA	2.45	0.52
1:I:72:ARG:HD2	1:J:434:THR:HG21	1.91	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:32:ASP:HA	1:K:35:PHE:CE1	2.44	0.52
1:O:78:VAL:HG11	1:O:444:LEU:HG	1.90	0.52
1:N:444:LEU:C	1:N:446:THR:H	2.13	0.52
1:R:164:LEU:HD22	1:R:169:ASP:CG	2.29	0.52
1:R:46:SER:N	1:R:48:TYR:HE2	1.98	0.52
1:V:34:PHE:HZ	1:V:328:ARG:HH22	1.40	0.52
1:X:434:THR:HA	1:X:437:GLN:HG2	1.91	0.52
1:R:302:PRO:O	1:R:439:ASN:ND2	2.42	0.52
1:J:234:ILE:HG13	1:J:267:ALA:HB3	1.90	0.52
1:B:511:ARG:HA	1:B:513:ARG:HD2	1.91	0.52
1:D:273:ARG:NH2	1:D:453:LEU:HD21	2.21	0.52
1:I:563:LYS:HD3	1:J:557:PHE:CE2	2.44	0.52
1:R:344:THR:O	1:R:344:THR:HG23	2.08	0.52
1:N:154:SER:O	1:N:204:PRO:HB3	2.09	0.52
1:B:78:VAL:CG1	1:B:79:LEU:N	2.72	0.52
1:F:15:PHE:CZ	1:F:283:CYS:HA	2.45	0.52
1:J:158:TRP:HB3	1:J:173:CYS:CA	2.36	0.52
1:K:78:VAL:CG1	1:K:79:LEU:N	2.72	0.52
1:M:123:VAL:HG22	1:M:316:TYR:CE2	2.45	0.52
1:M:66:LYS:NZ	1:M:420:VAL:HG11	2.24	0.52
1:O:420:VAL:HG22	1:O:428:GLY:HA3	1.90	0.52
1:L:138:THR:H	1:L:143:VAL:HG22	1.73	0.52
1:R:93:VAL:CG1	1:R:458:ARG:HG3	2.38	0.52
1:R:81:ARG:HB2	1:R:517:TYR:CZ	2.45	0.52
1:S:434:THR:HA	1:S:437:GLN:HG2	1.91	0.52
1:T:81:ARG:HB2	1:T:517:TYR:CZ	2.44	0.52
1:V:47:GLN:HG2	1:V:48:TYR:N	2.23	0.52
1:T:546:THR:CG2	1:T:547:PRO:HD3	2.28	0.52
1:G:265:LYS:O	1:G:266:ILE:HG12	2.10	0.52
1:C:15:PHE:CZ	1:C:283:CYS:HA	2.45	0.52
1:L:236:GLN:CB	1:L:265:LYS:HG2	2.37	0.52
1:L:265:LYS:O	1:L:266:ILE:HG12	2.10	0.52
1:T:573:ASN:O	1:T:577:ILE:HG13	2.09	0.52
1:L:209:PHE:HA	1:L:211:TRP:NE1	2.24	0.52
1:S:380:ASN:O	1:S:381:SER:HB3	2.10	0.52
1:G:579:MSE:HB2	1:G:581:VAL:HG12	1.91	0.52
1:L:384:LEU:HD22	1:L:384:LEU:N	2.23	0.52
1:K:384:LEU:HD22	1:K:384:LEU:N	2.23	0.52
1:D:556:TYR:OH	1:F:542:THR:HG21	2.09	0.52
1:R:584:PRO:HG2	1:R:593:LEU:HD12	1.90	0.52
1:K:229:LYS:HA	1:K:272:LYS:HA	1.90	0.52
1:R:427:GLY:C	1:R:429:GLN:H	2.12	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:229:LYS:HA	1:C:272:LYS:HA	1.90	0.52
1:X:427:GLY:C	1:X:429:GLN:H	2.12	0.52
1:D:229:LYS:HA	1:D:272:LYS:HA	1.90	0.52
1:A:78:VAL:HG11	1:A:444:LEU:HG	1.90	0.52
1:E:560:LEU:O	1:E:561:ASP:O	2.26	0.52
1:G:47:GLN:NE2	1:G:47:GLN:O	2.41	0.52
1:H:429:GLN:HG2	1:H:429:GLN:O	2.10	0.52
1:I:457:MSE:O	1:I:458:ARG:HD2	2.10	0.52
1:L:32:ASP:HA	1:L:35:PHE:CE1	2.44	0.52
1:S:165:MSE:HE1	1:S:435:VAL:HB	1.91	0.52
1:S:95:MSE:HB3	1:S:527:MSE:HE1	1.90	0.52
1:T:144:ILE:HD12	1:T:145:ARG:N	2.25	0.52
1:T:35:PHE:HE1	1:T:321:ARG:NH1	2.06	0.52
1:D:376:ARG:HB2	1:F:352:TRP:CG	2.44	0.52
1:L:579:MSE:HB2	1:L:581:VAL:HG12	1.90	0.52
1:A:579:MSE:HB2	1:A:581:VAL:HG12	1.91	0.52
1:N:380:ASN:O	1:N:381:SER:HB3	2.09	0.52
1:Q:380:ASN:O	1:Q:381:SER:HB3	2.10	0.52
1:U:296:GLU:HG2	1:U:449:PHE:HB3	1.90	0.52
1:U:398:PRO:HB3	1:X:395:PRO:HD2	1.90	0.52
1:B:229:LYS:HA	1:B:272:LYS:HA	1.90	0.52
1:D:379:GLU:O	1:D:380:ASN:CB	2.58	0.52
1:J:334:MSE:HE3	1:K:404:MSE:CE	2.40	0.52
1:L:78:VAL:CG1	1:L:79:LEU:N	2.72	0.52
1:R:434:THR:HA	1:R:437:GLN:HG2	1.90	0.52
1:S:93:VAL:CG1	1:S:458:ARG:HG3	2.37	0.52
1:T:434:THR:HA	1:T:437:GLN:HG2	1.91	0.52
1:T:93:VAL:CG1	1:T:458:ARG:HG3	2.39	0.52
1:D:234:ILE:HG13	1:D:267:ALA:HB3	1.90	0.52
1:F:265:LYS:O	1:F:266:ILE:HG12	2.10	0.52
1:D:209:PHE:HA	1:D:211:TRP:NE1	2.24	0.52
1:I:310:VAL:C	1:I:312:ASP:H	2.13	0.52
2:Y:57:TYR:CD2	2:Y:57:TYR:O	2.62	0.52
1:E:444:LEU:C	1:E:446:THR:N	2.61	0.52
1:F:44:TRP:C	1:F:45:LEU:HD22	2.28	0.52
1:F:334:MSE:SE	1:G:404:MSE:HE1	2.60	0.52
1:K:444:LEU:C	1:K:446:THR:N	2.61	0.52
1:L:48:TYR:HD2	1:L:48:TYR:O	4.89	0.52
1:P:93:VAL:CG1	1:P:458:ARG:HG3	2.38	0.52
1:Q:66:LYS:HZ3	1:Q:420:VAL:HG11	1.74	0.52
1:S:144:ILE:HD12	1:S:145:ARG:N	2.24	0.52
1:S:81:ARG:HB2	1:S:517:TYR:CZ	2.44	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:35:PHE:C	1:T:37:ARG:H	2.11	0.52
1:U:344:THR:O	1:U:344:THR:HG23	2.10	0.52
1:U:456:ALA:HB1	1:U:509:ASP:OD1	2.09	0.52
1:U:302:PRO:O	1:U:439:ASN:ND2	2.42	0.52
1:H:273:ARG:NH2	1:H:453:LEU:HD21	2.21	0.52
1:V:352:TRP:CG	1:W:376:ARG:HB2	2.45	0.52
1:R:236:GLN:HA	1:R:244:VAL:H	1.74	0.52
1:W:93:VAL:CG1	1:W:458:ARG:HG3	2.37	0.52
1:J:457:MSE:O	1:J:458:ARG:HD2	2.10	0.52
1:C:457:MSE:O	1:C:458:ARG:HD2	2.10	0.52
1:G:209:PHE:HA	1:G:211:TRP:NE1	2.24	0.52
1:K:209:PHE:HA	1:K:211:TRP:NE1	2.24	0.52
1:F:379:GLU:O	1:F:380:ASN:CB	2.58	0.52
1:M:40:GLN:HG2	1:O:310:VAL:HG22	1.90	0.52
1:W:598:GLN:HB2	1:W:601:GLN:HB2	1.92	0.52
1:G:310:VAL:C	1:G:312:ASP:H	2.13	0.52
1:J:310:VAL:C	1:J:312:ASP:H	2.13	0.52
1:V:296:GLU:HG2	1:V:449:PHE:HB3	1.91	0.52
1:F:229:LYS:HA	1:F:272:LYS:HA	1.90	0.52
1:M:556:TYR:OH	1:O:542:THR:HG21	2.10	0.52
1:A:15:PHE:CZ	1:A:283:CYS:HA	2.45	0.52
1:C:32:ASP:HA	1:C:35:PHE:CE1	2.44	0.52
1:D:32:ASP:HA	1:D:35:PHE:CE1	2.44	0.52
1:H:15:PHE:CZ	1:H:283:CYS:HA	2.45	0.52
1:I:78:VAL:CG1	1:I:79:LEU:N	2.72	0.52
1:J:78:VAL:CG1	1:J:79:LEU:N	2.72	0.52
1:M:165:MSE:HE1	1:M:435:VAL:HB	1.92	0.52
1:N:44:TRP:C	1:N:45:LEU:HD22	2.30	0.52
1:P:165:MSE:HE1	1:P:435:VAL:HB	1.91	0.52
1:P:44:TRP:CE2	1:P:54:ARG:HB3	2.44	0.52
1:T:434:THR:O	1:T:437:GLN:HG2	2.10	0.52
1:U:434:THR:HA	1:U:437:GLN:HG2	1.91	0.52
1:U:44:TRP:CE2	1:U:54:ARG:HB3	2.45	0.52
1:V:24:GLU:C	1:V:26:ARG:N	2.57	0.52
1:V:329:LEU:HD21	1:W:53:TYR:OH	2.10	0.52
1:V:444:LEU:O	1:V:448:VAL:HG23	2.10	0.52
1:W:165:MSE:HG3	1:W:307:TRP:CD2	2.44	0.52
1:W:165:MSE:HE1	1:W:435:VAL:HB	1.91	0.52
1:G:234:ILE:HG13	1:G:267:ALA:HB3	1.91	0.52
1:B:266:ILE:HG23	1:B:267:ALA:N	2.23	0.52
1:H:234:ILE:HG13	1:H:267:ALA:HB3	1.90	0.52
1:C:266:ILE:HG23	1:C:267:ALA:N	2.23	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:265:LYS:O	1:E:266:ILE:HG12	2.10	0.52
1:I:209:PHE:HA	1:I:211:TRP:NE1	2.24	0.52
1:J:209:PHE:HA	1:J:211:TRP:NE1	2.24	0.52
1:A:209:PHE:HA	1:A:211:TRP:NE1	2.24	0.52
1:A:379:GLU:O	1:A:380:ASN:CB	2.58	0.52
1:E:113:ILE:HD13	1:E:150:HIS:CE1	2.45	0.52
1:C:113:ILE:HD13	1:C:150:HIS:CE1	2.45	0.52
1:D:221:GLU:OE2	1:D:278:LYS:HD2	2.10	0.52
1:J:384:LEU:N	1:J:384:LEU:HD22	2.23	0.52
1:P:380:ASN:O	1:P:381:SER:HB3	2.09	0.52
1:W:380:ASN:O	1:W:381:SER:HB3	2.10	0.52
1:I:221:GLU:OE2	1:I:278:LYS:HD2	2.10	0.52
1:B:363:TYR:HE1	1:C:350:PHE:HE1	1.56	0.52
1:K:177:HIS:O	1:K:218:GLN:HA	2.09	0.52
1:A:350:PHE:HE1	1:L:363:TYR:HE1	1.57	0.52
1:K:113:ILE:HD13	1:K:150:HIS:CE1	2.45	0.52
1:A:32:ASP:HA	1:A:35:PHE:CE1	2.44	0.52
1:F:444:LEU:C	1:F:446:THR:N	2.61	0.52
1:I:32:ASP:HA	1:I:35:PHE:CE1	2.44	0.52
1:J:113:ILE:HD13	1:J:150:HIS:CE1	2.45	0.52
1:L:113:ILE:HD13	1:L:150:HIS:CE1	2.45	0.52
1:O:53:TYR:OH	1:P:329:LEU:HD21	2.07	0.52
1:N:165:MSE:HE1	1:N:435:VAL:HB	1.92	0.52
1:Q:144:ILE:HD12	1:Q:145:ARG:N	2.25	0.52
1:R:80:TYR:CE1	1:R:448:VAL:HG22	2.43	0.52
1:S:434:THR:O	1:S:437:GLN:HG2	2.09	0.52
1:W:35:PHE:CE1	1:W:321:ARG:NE	2.78	0.52
1:L:139:SER:CB	1:L:455:THR:CG2	2.80	0.52
1:U:273:ARG:NH1	1:U:275:ARG:HE	2.07	0.52
1:D:265:LYS:O	1:D:266:ILE:HG12	2.10	0.52
1:N:352:TRP:CD1	1:V:376:ARG:HB2	2.45	0.52
1:T:236:GLN:HA	1:T:244:VAL:H	1.74	0.52
1:L:457:MSE:O	1:L:458:ARG:HD2	2.10	0.52
1:G:457:MSE:O	1:G:458:ARG:HD2	2.10	0.52
1:C:209:PHE:HA	1:C:211:TRP:NE1	2.24	0.52
1:A:438:LEU:HD22	3:L:719:HOH:O	2.09	0.52
1:S:389:LEU:HD12	1:S:389:LEU:H	1.75	0.52
1:I:363:TYR:HE1	1:J:350:PHE:HE1	1.56	0.52
1:T:427:GLY:C	1:T:429:GLN:H	2.13	0.52
1:Q:55:GLY:HA3	1:Q:57:PHE:CE1	2.45	0.52
1:J:32:ASP:HA	1:J:35:PHE:CE1	2.44	0.52
1:K:457:MSE:O	1:K:458:ARG:HD2	2.10	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:48:TYR:O	1:M:48:TYR:HD2	5.13	0.52
1:P:344:THR:HG23	1:P:344:THR:O	2.08	0.52
1:R:35:PHE:HE1	1:R:321:ARG:NH1	2.07	0.52
1:D:139:SER:CB	1:D:455:THR:CG2	2.80	0.52
1:O:546:THR:CG2	1:O:547:PRO:HD3	2.29	0.52
1:T:273:ARG:NH1	1:T:275:ARG:HE	2.08	0.52
1:O:209:PHE:HZ	1:O:214:GLN:HG2	1.70	0.52
1:E:457:MSE:O	1:E:458:ARG:HD2	2.10	0.52
1:B:379:GLU:O	1:B:380:ASN:CB	2.58	0.52
1:J:379:GLU:O	1:J:380:ASN:CB	2.58	0.52
1:B:113:ILE:HD13	1:B:150:HIS:CE1	2.45	0.52
1:B:579:MSE:HB2	1:B:581:VAL:HG12	1.91	0.52
1:E:579:MSE:HB2	1:E:581:VAL:HG12	1.91	0.52
1:P:95:MSE:HB3	1:P:527:MSE:HE1	1.90	0.52
1:T:598:GLN:HB2	1:T:601:GLN:HB2	1.91	0.52
1:M:598:GLN:HB2	1:M:601:GLN:HB2	1.92	0.52
1:N:598:GLN:HB2	1:N:601:GLN:HB2	1.92	0.52
1:H:556:TYR:OH	1:I:542:THR:HG21	2.09	0.52
1:Q:58:ASP:HA	1:Q:327:GLN:NE2	2.24	0.52
1:F:310:VAL:C	1:F:312:ASP:H	2.13	0.52
1:B:310:VAL:C	1:B:312:ASP:H	2.13	0.52
1:D:35:PHE:HE2	1:D:324:LYS:NZ	2.07	0.52
1:E:15:PHE:CZ	1:E:283:CYS:HA	2.45	0.52
1:J:15:PHE:CZ	1:J:283:CYS:HA	2.45	0.52
1:L:560:LEU:O	1:L:561:ASP:O	2.26	0.52
1:O:93:VAL:CG1	1:O:458:ARG:HG3	2.38	0.52
1:M:325:ASP:O	1:M:329:LEU:HD23	2.10	0.52
1:R:325:ASP:O	1:R:329:LEU:HD23	2.09	0.52
1:E:273:ARG:NH2	1:E:453:LEU:HD21	2.21	0.52
1:W:236:GLN:HA	1:W:244:VAL:H	1.74	0.52
1:A:573:ASN:O	1:A:577:ILE:HG13	2.10	0.52
1:A:457:MSE:O	1:A:458:ARG:HD2	2.10	0.52
1:P:420:VAL:HG22	1:P:428:GLY:HA3	1.91	0.52
1:G:113:ILE:HD13	1:G:150:HIS:CE1	2.45	0.52
1:I:113:ILE:HD13	1:I:150:HIS:CE1	2.45	0.52
1:B:209:PHE:HA	1:B:211:TRP:NE1	2.24	0.52
1:F:113:ILE:HD13	1:F:150:HIS:CE1	2.45	0.52
1:A:221:GLU:OE2	1:A:278:LYS:HD2	2.10	0.52
1:H:579:MSE:HB2	1:H:581:VAL:HG12	1.90	0.52
1:D:579:MSE:HB2	1:D:581:VAL:HG12	1.90	0.52
1:C:310:VAL:C	1:C:312:ASP:H	2.13	0.52
1:V:427:GLY:C	1:V:429:GLN:H	2.13	0.52

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:395:PRO:HD2	1:J:398:PRO:HB3	1.92	0.52
1:Q:389:LEU:H	1:Q:389:LEU:HD12	1.74	0.52
1:A:561:ASP:OD2	1:B:92:ASP:HB3	2.10	0.52
1:B:15:PHE:CZ	1:B:283:CYS:HA	2.45	0.52
1:B:35:PHE:CE2	1:B:321:ARG:HG3	2.45	0.52
1:D:78:VAL:CG1	1:D:79:LEU:N	2.72	0.52
1:E:78:VAL:CG1	1:E:79:LEU:N	2.72	0.52
1:F:35:PHE:CE2	1:F:321:ARG:HG3	2.45	0.52
1:G:35:PHE:HE2	1:G:324:LYS:NZ	2.07	0.52
1:G:334:MSE:HE3	1:H:404:MSE:HE3	1.92	0.52
1:L:15:PHE:CZ	1:L:283:CYS:HA	2.45	0.52
2:Z:53:MET:O	2:Z:69:PHE:CE1	2.63	0.52
1:U:325:ASP:O	1:U:329:LEU:HD23	2.10	0.52
1:U:34:PHE:CE2	1:U:45:LEU:HG	2.45	0.52
1:W:444:LEU:O	1:W:448:VAL:HG23	2.10	0.52
2:Y:77:ALA:O	2:Y:78:GLU:HB3	2.10	0.52
1:E:14:ARG:NE	1:E:14:ARG:CA	2.67	0.52
1:J:14:ARG:NE	1:J:14:ARG:CA	2.67	0.52
1:J:248:LYS:HZ1	1:J:513:ARG:HH12	1.58	0.52
1:I:265:LYS:O	1:I:266:ILE:HG12	2.10	0.52
1:K:573:ASN:O	1:K:577:ILE:HG13	2.11	0.52
1:C:573:ASN:O	1:C:577:ILE:HG13	2.10	0.52
1:X:535:ILE:HD13	1:X:554:LEU:HG	1.92	0.52
1:H:457:MSE:O	1:H:458:ARG:HD2	2.10	0.52
3:K:719:HOH:O	1:L:438:LEU:HD22	2.10	0.52
1:C:379:GLU:O	1:C:380:ASN:CB	2.58	0.52
3:P:719:HOH:O	1:Q:430:VAL:HG11	2.10	0.52
1:D:310:VAL:C	1:D:312:ASP:H	2.13	0.52
1:K:310:VAL:C	1:K:312:ASP:H	2.13	0.52
1:C:221:GLU:OE2	1:C:278:LYS:HD2	2.10	0.52
2:Z:57:TYR:O	2:Z:57:TYR:CD2	2.62	0.52
2:Z:57:TYR:O	2:Z:57:TYR:HD2	1.92	0.52
1:R:387:GLN:HB3	1:X:390:ALA:CB	2.40	0.52
1:A:229:LYS:HA	1:A:272:LYS:HA	1.90	0.52
1:A:35:PHE:CE2	1:A:321:ARG:HG3	2.45	0.51
1:B:302:PRO:O	1:B:439:ASN:CG	2.49	0.51
1:B:443:ASP:C	1:B:444:LEU:HD13	2.31	0.51
1:B:457:MSE:O	1:B:458:ARG:HD2	2.10	0.51
1:C:35:PHE:CE2	1:C:321:ARG:HG3	2.45	0.51
1:C:429:GLN:O	1:C:429:GLN:HG2	2.10	0.51
1:F:160:SER:O	1:F:161:ASN:ND2	2.43	0.51
1:G:160:SER:O	1:G:161:ASN:ND2	2.44	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:35:PHE:CE2	1:J:321:ARG:HG3	2.45	0.51
1:J:37:ARG:HH21	1:J:37:ARG:CB	2.16	0.51
1:L:35:PHE:CE2	1:L:321:ARG:HG3	2.45	0.51
1:O:164:LEU:HD22	1:O:169:ASP:CG	2.31	0.51
1:O:434:THR:O	1:O:437:GLN:HG2	2.10	0.51
1:O:78:VAL:HG12	1:O:79:LEU:H	1.74	0.51
2:Z:77:ALA:O	2:Z:78:GLU:HB3	2.10	0.51
1:P:78:VAL:HG11	1:P:444:LEU:HG	1.91	0.51
1:R:434:THR:O	1:R:437:GLN:HG2	2.10	0.51
1:V:164:LEU:HD22	1:V:169:ASP:CG	2.30	0.51
1:X:35:PHE:C	1:X:37:ARG:H	2.12	0.51
1:X:444:LEU:C	1:X:446:THR:H	2.13	0.51
1:C:14:ARG:NE	1:C:14:ARG:CA	2.67	0.51
1:O:334:MSE:HE1	1:P:407:ALA:HB1	1.91	0.51
1:G:511:ARG:HA	1:G:513:ARG:HD2	1.91	0.51
1:C:265:LYS:O	1:C:266:ILE:HG12	2.10	0.51
1:X:236:GLN:HA	1:X:244:VAL:H	1.74	0.51
1:P:573:ASN:O	1:P:577:ILE:HG13	2.10	0.51
1:F:209:PHE:HA	1:F:211:TRP:NE1	2.24	0.51
1:D:113:ILE:HD13	1:D:150:HIS:CE1	2.45	0.51
3:O:719:HOH:O	1:P:430:VAL:HG11	2.10	0.51
1:V:380:ASN:O	1:V:381:SER:HB3	2.10	0.51
1:P:427:GLY:C	1:P:429:GLN:H	2.13	0.51
1:O:456:ALA:HB1	1:O:509:ASP:OD1	2.09	0.51
1:D:15:PHE:CZ	1:D:283:CYS:HA	2.45	0.51
1:D:160:SER:O	1:D:161:ASN:ND2	2.44	0.51
1:D:334:MSE:HE3	1:F:404:MSE:CE	2.40	0.51
1:E:379:GLU:O	1:E:380:ASN:CB	2.58	0.51
1:E:443:ASP:C	1:E:444:LEU:HD13	2.31	0.51
1:H:182:ASN:ND2	1:I:171:ARG:HH21	2.08	0.51
1:I:443:ASP:C	1:I:444:LEU:HD13	2.31	0.51
1:K:443:ASP:C	1:K:444:LEU:HD13	2.31	0.51
1:M:37:ARG:CB	1:M:37:ARG:HH21	2.23	0.51
1:N:34:PHE:CE2	1:N:45:LEU:HG	2.46	0.51
1:N:80:TYR:CE1	1:N:448:VAL:HG22	2.45	0.51
1:U:44:TRP:C	1:U:45:LEU:HD22	2.30	0.51
1:V:123:VAL:HG22	1:V:316:TYR:CE2	2.45	0.51
1:X:123:VAL:HG22	1:X:316:TYR:CE2	2.45	0.51
1:K:265:LYS:O	1:K:266:ILE:HG12	2.10	0.51
1:C:563:LYS:HD3	1:E:557:PHE:CE2	2.45	0.51
1:D:573:ASN:O	1:D:577:ILE:HG13	2.10	0.51
1:W:389:LEU:HD12	1:W:389:LEU:H	1.75	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:95:MSE:HE1	1:M:99:ARG:CZ	2.41	0.51
1:Q:598:GLN:HB2	1:Q:601:GLN:HB2	1.92	0.51
1:F:556:TYR:OH	1:G:542:THR:HG21	2.09	0.51
1:B:221:GLU:OE2	1:B:278:LYS:HD2	2.10	0.51
1:R:389:LEU:HD12	1:R:389:LEU:H	1.74	0.51
1:B:372:TYR:CE2	1:C:348:LYS:HB2	2.45	0.51
1:U:154:SER:O	1:U:204:PRO:HB3	2.10	0.51
1:N:427:GLY:C	1:N:429:GLN:H	2.13	0.51
1:A:302:PRO:O	1:A:439:ASN:CG	2.49	0.51
1:A:443:ASP:C	1:A:444:LEU:HD13	2.31	0.51
1:C:302:PRO:O	1:C:439:ASN:CG	2.49	0.51
1:C:63:VAL:HG21	1:C:416:ALA:HB1	1.93	0.51
1:D:37:ARG:HH21	1:D:37:ARG:CB	2.16	0.51
1:D:63:VAL:HG21	1:D:416:ALA:HB1	1.93	0.51
1:F:63:VAL:HG21	1:F:416:ALA:HB1	1.93	0.51
1:I:160:SER:O	1:I:161:ASN:ND2	2.44	0.51
1:I:35:PHE:C	1:I:37:ARG:N	2.62	0.51
1:I:35:PHE:HE2	1:I:324:LYS:NZ	2.08	0.51
1:J:443:ASP:C	1:J:444:LEU:HD13	2.31	0.51
1:P:164:LEU:HD22	1:P:169:ASP:CG	2.31	0.51
1:Q:164:LEU:HD22	1:Q:169:ASP:CG	2.31	0.51
1:Q:434:THR:HA	1:Q:437:GLN:HG2	1.92	0.51
1:S:35:PHE:HE1	1:S:321:ARG:NH1	2.06	0.51
1:H:139:SER:CB	1:H:455:THR:CG2	2.80	0.51
1:X:158:TRP:HD1	1:X:158:TRP:N	2.07	0.51
1:Q:158:TRP:HD1	1:Q:158:TRP:N	2.07	0.51
1:J:265:LYS:O	1:J:266:ILE:HG12	2.10	0.51
1:H:265:LYS:O	1:H:266:ILE:HG12	2.10	0.51
1:I:236:GLN:CB	1:I:265:LYS:HZ3	2.16	0.51
1:I:573:ASN:O	1:I:577:ILE:HG13	2.10	0.51
1:G:221:GLU:OE2	1:G:278:LYS:HD2	2.10	0.51
1:H:113:ILE:HD13	1:H:150:HIS:CE1	2.45	0.51
1:S:379:GLU:O	1:S:380:ASN:CB	2.58	0.51
1:C:579:MSE:HB2	1:C:581:VAL:HG12	1.91	0.51
1:E:221:GLU:OE2	1:E:278:LYS:HD2	2.10	0.51
1:O:598:GLN:HB2	1:O:601:GLN:HB2	1.92	0.51
1:U:390:ALA:CB	1:X:387:GLN:CB	2.88	0.51
1:L:310:VAL:C	1:L:312:ASP:H	2.13	0.51
1:O:58:ASP:HA	1:O:327:GLN:NE2	2.26	0.51
2:Y:57:TYR:HD2	2:Y:57:TYR:O	1.92	0.51
1:M:322:LEU:HD22	1:M:322:LEU:N	2.25	0.51
1:B:395:PRO:HD2	1:C:398:PRO:HB3	1.92	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:351:PHE:CD2	1:N:356:ILE:HD12	2.46	0.51
1:A:63:VAL:HG21	1:A:416:ALA:HB1	1.93	0.51
1:C:78:VAL:CG1	1:C:79:LEU:N	2.72	0.51
1:D:111:VAL:O	1:D:115:VAL:HG13	2.11	0.51
1:D:302:PRO:O	1:D:439:ASN:CG	2.49	0.51
1:E:302:PRO:O	1:E:439:ASN:CG	2.49	0.51
1:F:111:VAL:O	1:F:115:VAL:HG13	2.11	0.51
1:G:429:GLN:O	1:G:429:GLN:HG2	2.10	0.51
1:H:35:PHE:CE2	1:H:321:ARG:HG3	2.45	0.51
1:I:35:PHE:CE2	1:I:321:ARG:HG3	2.45	0.51
1:J:63:VAL:HG21	1:J:416:ALA:HB1	1.93	0.51
1:M:434:THR:O	1:M:437:GLN:HG2	2.09	0.51
1:O:46:SER:N	1:O:48:TYR:HE2	1.98	0.51
1:P:81:ARG:HB2	1:P:517:TYR:CZ	2.45	0.51
1:L:443:ASP:C	1:L:444:LEU:HD13	2.31	0.51
1:N:35:PHE:C	1:N:37:ARG:H	2.14	0.51
1:N:66:LYS:HZ3	1:N:420:VAL:HG11	1.75	0.51
1:P:434:THR:HA	1:P:437:GLN:HG2	1.92	0.51
1:R:34:PHE:CE2	1:R:45:LEU:HG	2.44	0.51
1:T:101:ASP:HB2	1:T:144:ILE:O	2.11	0.51
1:V:44:TRP:CE2	1:V:54:ARG:HB3	2.46	0.51
1:V:44:TRP:C	1:V:45:LEU:HD22	2.31	0.51
1:X:144:ILE:HD12	1:X:145:ARG:N	2.25	0.51
1:Q:546:THR:CG2	1:Q:547:PRO:HD3	2.29	0.51
1:O:302:PRO:O	1:O:439:ASN:ND2	2.43	0.51
1:Q:302:PRO:O	1:Q:439:ASN:ND2	2.44	0.51
1:L:573:ASN:O	1:L:577:ILE:HG13	2.10	0.51
1:E:573:ASN:O	1:E:577:ILE:HG13	2.11	0.51
1:F:573:ASN:O	1:F:577:ILE:HG13	2.11	0.51
1:D:457:MSE:O	1:D:458:ARG:HD2	2.10	0.51
1:K:379:GLU:O	1:K:380:ASN:CB	2.58	0.51
1:I:379:GLU:O	1:I:380:ASN:CB	2.58	0.51
1:W:535:ILE:HD13	1:W:554:LEU:HG	1.93	0.51
1:A:348:LYS:HB3	1:L:371:TYR:HA	1.92	0.51
1:U:598:GLN:HB2	1:U:601:GLN:HB2	1.92	0.51
1:T:95:MSE:HB3	1:T:527:MSE:HE1	1.91	0.51
1:U:351:PHE:CD2	1:U:356:ILE:HD12	2.44	0.51
1:V:348:LYS:HB2	1:W:372:TYR:CE2	2.46	0.51
1:K:363:TYR:HE1	1:L:350:PHE:HE1	1.57	0.51
1:T:154:SER:O	1:T:204:PRO:HB3	2.09	0.51
1:P:395:PRO:HD2	1:Q:398:PRO:HB3	1.91	0.51
1:A:101:ASP:HB3	1:A:138:THR:HG21	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:160:SER:O	1:A:161:ASN:ND2	2.44	0.51
1:A:444:LEU:C	1:A:446:THR:N	2.61	0.51
1:B:34:PHE:HZ	1:B:328:ARG:HH22	0.80	0.51
1:C:111:VAL:O	1:C:115:VAL:HG13	2.11	0.51
1:F:429:GLN:HG2	1:F:429:GLN:O	2.10	0.51
1:H:443:ASP:C	1:H:444:LEU:HD13	2.31	0.51
1:H:561:ASP:OD2	1:I:92:ASP:HB3	2.10	0.51
1:J:101:ASP:HB3	1:J:138:THR:HG21	1.93	0.51
1:L:528:LYS:HZ2	1:L:560:LEU:HD21	1.75	0.51
1:M:420:VAL:HG22	1:M:428:GLY:HA3	1.92	0.51
1:N:344:THR:HG23	1:N:344:THR:O	2.09	0.51
1:R:44:TRP:C	1:R:45:LEU:HD22	2.30	0.51
1:U:123:VAL:HG22	1:U:316:TYR:CE2	2.46	0.51
1:X:344:THR:HG23	1:X:344:THR:O	2.09	0.51
1:X:434:THR:O	1:X:437:GLN:HG2	2.10	0.51
1:E:14:ARG:HH11	1:E:17:ALA:HB2	1.76	0.51
1:F:14:ARG:NE	1:F:14:ARG:CA	2.67	0.51
1:G:14:ARG:HH11	1:G:17:ALA:HB2	1.76	0.51
1:I:234:ILE:HG13	1:I:267:ALA:HB3	1.90	0.51
1:B:573:ASN:O	1:B:577:ILE:HG13	2.11	0.51
1:P:598:GLN:HB2	1:P:601:GLN:HB2	1.92	0.51
1:A:310:VAL:C	1:A:312:ASP:H	2.13	0.51
1:U:584:PRO:HG2	1:U:593:LEU:HD12	1.91	0.51
1:N:430:VAL:CG1	3:V:719:HOH:O	2.59	0.51
1:N:438:LEU:HD22	3:V:718:HOH:O	2.09	0.51
1:K:63:VAL:HG21	1:K:416:ALA:HB1	1.93	0.51
1:B:35:PHE:HE2	1:B:324:LYS:NZ	2.07	0.51
1:E:63:VAL:HG21	1:E:416:ALA:HB1	1.93	0.51
1:G:15:PHE:CZ	1:G:283:CYS:HA	2.45	0.51
1:H:101:ASP:HB3	1:H:138:THR:HG21	1.93	0.51
1:H:160:SER:O	1:H:161:ASN:ND2	2.44	0.51
1:J:111:VAL:O	1:J:115:VAL:HG13	2.11	0.51
1:J:160:SER:O	1:J:161:ASN:ND2	2.44	0.51
1:J:302:PRO:O	1:J:439:ASN:CG	2.49	0.51
1:K:15:PHE:CZ	1:K:283:CYS:HA	2.45	0.51
1:M:48:TYR:O	1:M:48:TYR:CD2	5.16	0.51
1:O:35:PHE:C	1:O:37:ARG:H	2.12	0.51
2:Y:53:MET:O	2:Y:69:PHE:CE1	2.63	0.51
1:N:164:LEU:HD22	1:N:169:ASP:CG	2.30	0.51
1:Q:37:ARG:HH21	1:Q:37:ARG:CB	2.24	0.51
1:S:48:TYR:O	1:S:48:TYR:CD2	5.17	0.51
1:S:48:TYR:O	1:S:48:TYR:HD2	5.14	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:344:THR:HG23	1:V:344:THR:O	2.09	0.51
1:W:434:THR:HA	1:W:437:GLN:HG2	1.92	0.51
1:F:14:ARG:HH11	1:F:17:ALA:HB2	1.76	0.51
1:X:302:PRO:O	1:X:439:ASN:ND2	2.43	0.51
1:H:573:ASN:O	1:H:577:ILE:HG13	2.10	0.51
1:H:209:PHE:HA	1:H:211:TRP:NE1	2.24	0.51
1:E:209:PHE:HA	1:E:211:TRP:NE1	2.24	0.51
1:H:221:GLU:OE2	1:H:278:LYS:HD2	2.10	0.51
1:R:598:GLN:HB2	1:R:601:GLN:HB2	1.92	0.51
1:V:58:ASP:HA	1:V:327:GLN:NE2	2.25	0.51
1:K:221:GLU:OE2	1:K:278:LYS:HD2	2.10	0.51
1:O:456:ALA:O	1:O:457:MSE:HB2	2.11	0.51
1:S:351:PHE:CD2	1:S:356:ILE:HD12	2.45	0.51
1:A:111:VAL:O	1:A:115:VAL:HG13	2.11	0.51
1:C:528:LYS:HZ2	1:C:560:LEU:HD21	1.76	0.51
1:F:37:ARG:HH21	1:F:37:ARG:CB	2.16	0.51
1:G:35:PHE:CE2	1:G:321:ARG:HG3	2.45	0.51
1:G:379:GLU:O	1:G:380:ASN:CB	2.58	0.51
1:K:302:PRO:O	1:K:439:ASN:CG	2.49	0.51
1:L:160:SER:O	1:L:161:ASN:ND2	2.44	0.51
1:L:35:PHE:HE2	1:L:324:LYS:NZ	2.07	0.51
1:L:444:LEU:C	1:L:446:THR:N	2.61	0.51
1:P:80:TYR:CE1	1:P:448:VAL:HG22	2.45	0.51
1:R:443:ASP:C	1:R:446:THR:HG22	2.31	0.51
1:R:44:TRP:CE2	1:R:54:ARG:HB3	2.46	0.51
1:R:78:VAL:CG1	1:R:79:LEU:N	2.73	0.51
1:T:34:PHE:CE2	1:T:45:LEU:HG	2.45	0.51
1:V:35:PHE:CE1	1:V:321:ARG:NE	2.76	0.51
1:D:14:ARG:CA	1:D:14:ARG:NE	2.67	0.51
1:P:546:THR:CG2	1:P:547:PRO:HD3	2.31	0.51
1:A:564:GLY:CA	1:B:554:LEU:HD21	2.35	0.51
1:H:251:ILE:O	1:H:507:LEU:HD13	2.11	0.51
1:F:457:MSE:O	1:F:458:ARG:HD2	2.10	0.51
1:X:573:ASN:O	1:X:577:ILE:HG13	2.10	0.51
1:A:113:ILE:HD13	1:A:150:HIS:CE1	2.45	0.51
1:O:380:ASN:O	1:O:381:SER:HB3	2.11	0.51
1:S:58:ASP:HA	1:S:327:GLN:NE2	2.25	0.51
1:O:389:LEU:HD12	1:O:389:LEU:H	1.75	0.51
1:X:351:PHE:CD2	1:X:356:ILE:HD12	2.45	0.51
1:B:111:VAL:O	1:B:115:VAL:HG13	2.11	0.51
1:B:37:ARG:HH22	1:B:45:LEU:CD1	2.24	0.51
1:F:101:ASP:HB3	1:F:138:THR:HG21	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:302:PRO:O	1:H:439:ASN:CG	2.49	0.51
1:I:37:ARG:HH22	1:I:45:LEU:CD1	2.24	0.51
1:I:302:PRO:O	1:I:439:ASN:CG	2.49	0.51
1:L:111:VAL:O	1:L:115:VAL:HG13	2.11	0.51
1:L:37:ARG:HH22	1:L:45:LEU:CD1	2.24	0.51
1:M:144:ILE:HD12	1:M:145:ARG:N	2.26	0.51
1:O:165:MSE:HE1	1:O:435:VAL:HB	1.93	0.51
1:O:78:VAL:CG1	1:O:79:LEU:N	2.74	0.51
1:N:325:ASP:O	1:N:329:LEU:HD23	2.10	0.51
1:N:456:ALA:O	1:N:457:MSE:HB2	2.11	0.51
1:Q:80:TYR:CE1	1:Q:448:VAL:HG22	2.46	0.51
1:R:123:VAL:HG22	1:R:316:TYR:CE2	2.45	0.51
1:R:456:ALA:O	1:R:457:MSE:HB2	2.11	0.51
1:S:37:ARG:CB	1:S:37:ARG:HH21	2.24	0.51
1:U:78:VAL:HG12	1:U:79:LEU:H	1.75	0.51
1:W:34:PHE:CE2	1:W:45:LEU:HG	2.45	0.51
1:X:34:PHE:CE2	1:X:45:LEU:HG	2.45	0.51
1:X:405:LEU:O	1:X:409:THR:HG23	2.10	0.51
1:I:273:ARG:NH2	1:I:453:LEU:HD21	2.21	0.51
1:C:248:LYS:HD3	1:C:251:ILE:HB	1.93	0.51
1:F:251:ILE:O	1:F:507:LEU:HD13	2.11	0.51
1:J:573:ASN:O	1:J:577:ILE:HG13	2.10	0.51
1:U:535:ILE:HD13	1:U:554:LEU:HG	1.93	0.51
1:D:376:ARG:HB2	1:F:352:TRP:CD2	2.46	0.51
1:U:66:LYS:HZ3	1:U:420:VAL:HG11	1.74	0.51
1:L:379:GLU:O	1:L:380:ASN:CB	2.58	0.51
1:H:379:GLU:O	1:H:380:ASN:CB	2.58	0.51
1:R:95:MSE:HB3	1:R:527:MSE:HE1	1.93	0.51
1:X:95:MSE:HB3	1:X:527:MSE:HE1	1.92	0.51
1:M:430:VAL:HG11	3:N:719:HOH:O	2.11	0.51
1:R:58:ASP:HA	1:R:327:GLN:NE2	2.26	0.51
1:J:221:GLU:OE2	1:J:278:LYS:HD2	2.10	0.51
1:A:427:GLY:C	1:A:429:GLN:H	2.15	0.51
1:V:399:GLN:OE1	1:W:396:GLU:O	2.29	0.51
1:C:160:SER:O	1:C:161:ASN:ND2	2.44	0.51
1:C:35:PHE:HE2	1:C:324:LYS:NZ	2.08	0.51
1:G:443:ASP:C	1:G:444:LEU:HD13	2.31	0.51
1:I:444:LEU:C	1:I:446:THR:N	2.61	0.51
1:L:14:ARG:CA	1:L:14:ARG:NE	2.67	0.51
1:L:48:TYR:O	1:L:48:TYR:CD2	5.23	0.51
1:L:101:ASP:HB3	1:L:138:THR:HG21	1.93	0.51
1:N:144:ILE:HD12	1:N:145:ARG:N	2.26	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:420:VAL:HG22	1:N:428:GLY:HA3	1.92	0.51
1:T:302:PRO:O	1:T:439:ASN:ND2	2.44	0.51
1:T:44:TRP:CE2	1:T:54:ARG:HB3	2.46	0.51
1:D:14:ARG:HH11	1:D:17:ALA:HB2	1.76	0.51
1:J:14:ARG:HH11	1:J:17:ALA:HB2	1.76	0.51
1:A:265:LYS:O	1:A:266:ILE:HG12	2.10	0.51
1:W:456:ALA:O	1:W:457:MSE:HB2	2.11	0.51
1:F:221:GLU:OE2	1:F:278:LYS:HD2	2.10	0.51
1:R:535:ILE:HD13	1:R:554:LEU:HG	1.92	0.51
1:L:221:GLU:OE2	1:L:278:LYS:HD2	2.10	0.51
1:L:191:TYR:HE1	1:L:278:LYS:HZ3	1.57	0.51
1:S:55:GLY:HA3	1:S:57:PHE:CE1	2.46	0.51
1:E:429:GLN:O	1:E:429:GLN:HG2	2.10	0.51
1:B:160:SER:O	1:B:161:ASN:ND2	2.44	0.51
1:C:101:ASP:HB3	1:C:138:THR:HG21	1.93	0.51
1:E:160:SER:O	1:E:161:ASN:ND2	2.44	0.51
1:F:560:LEU:O	1:F:565:VAL:HG21	2.11	0.51
1:G:560:LEU:O	1:G:565:VAL:HG21	2.11	0.51
1:H:560:LEU:O	1:H:565:VAL:HG21	2.11	0.51
1:I:429:GLN:O	1:I:429:GLN:HG2	2.10	0.51
1:M:434:THR:HA	1:M:437:GLN:HG2	1.92	0.51
1:M:456:ALA:O	1:M:457:MSE:HB2	2.11	0.51
1:O:444:LEU:C	1:O:446:THR:H	2.13	0.51
1:K:72:ARG:HD2	1:L:434:THR:HG21	1.93	0.51
1:S:456:ALA:O	1:S:457:MSE:HB2	2.10	0.51
1:T:78:VAL:CG1	1:T:79:LEU:N	2.74	0.51
1:U:80:TYR:CE1	1:U:448:VAL:HG22	2.45	0.51
1:O:158:TRP:N	1:O:158:TRP:HD1	2.07	0.51
1:W:413:LYS:HA	1:W:416:ALA:HB3	1.93	0.51
1:B:251:ILE:O	1:B:507:LEU:HD13	2.11	0.51
1:D:236:GLN:CB	1:D:265:LYS:HG2	2.37	0.51
1:F:248:LYS:HD3	1:F:251:ILE:HB	1.93	0.51
1:R:212:LEU:HD22	1:X:26:ARG:HG2	1.93	0.51
1:B:63:VAL:HG21	1:B:416:ALA:HB1	1.93	0.51
3:M:719:HOH:O	1:O:430:VAL:HG11	2.11	0.51
1:H:310:VAL:C	1:H:312:ASP:H	2.13	0.51
1:E:310:VAL:C	1:E:312:ASP:H	2.13	0.51
1:M:429:GLN:HG2	1:M:429:GLN:O	2.11	0.51
1:B:429:GLN:HG2	1:B:429:GLN:O	2.10	0.51
1:A:37:ARG:HH22	1:A:45:LEU:CD1	2.24	0.50
1:D:35:PHE:CE2	1:D:321:ARG:HG3	2.45	0.50
1:E:35:PHE:CE2	1:E:321:ARG:HG3	2.45	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:111:VAL:O	1:G:115:VAL:HG13	2.11	0.50
1:G:63:VAL:HG21	1:G:416:ALA:HB1	1.93	0.50
1:H:35:PHE:HE2	1:H:324:LYS:NZ	2.08	0.50
1:H:63:VAL:HG21	1:H:416:ALA:HB1	1.93	0.50
1:I:111:VAL:O	1:I:115:VAL:HG13	2.11	0.50
1:I:427:GLY:C	1:I:429:GLN:H	2.14	0.50
1:I:63:VAL:HG21	1:I:416:ALA:HB1	1.93	0.50
1:J:560:LEU:O	1:J:565:VAL:HG21	2.11	0.50
1:K:101:ASP:HB3	1:K:138:THR:HG21	1.93	0.50
1:K:160:SER:O	1:K:161:ASN:ND2	2.44	0.50
1:K:35:PHE:CE2	1:K:321:ARG:HG3	2.45	0.50
1:L:81:ARG:HB2	1:L:517:TYR:CE2	2.46	0.50
1:O:80:TYR:CE1	1:O:448:VAL:HG22	2.46	0.50
1:K:81:ARG:HB2	1:K:517:TYR:CE2	2.46	0.50
1:N:35:PHE:CE1	1:N:321:ARG:NE	2.78	0.50
1:Q:78:VAL:CG1	1:Q:79:LEU:N	2.74	0.50
1:R:35:PHE:CE1	1:R:321:ARG:NE	2.77	0.50
1:V:46:SER:N	1:V:48:TYR:HE2	1.96	0.50
1:W:444:LEU:C	1:W:446:THR:H	2.13	0.50
1:X:413:LYS:HA	1:X:416:ALA:HB3	1.92	0.50
1:B:265:LYS:O	1:B:266:ILE:HG12	2.10	0.50
1:A:248:LYS:HD3	1:A:251:ILE:HB	1.93	0.50
1:I:513:ARG:H	1:I:513:ARG:HD3	1.77	0.50
1:K:376:ARG:HB2	1:L:352:TRP:CD2	2.46	0.50
1:N:58:ASP:HA	1:N:327:GLN:NE2	2.26	0.50
1:T:389:LEU:HD12	1:T:389:LEU:H	1.76	0.50
2:Z:38:GLU:N	2:Z:39:PRO:HD3	2.26	0.50
1:K:427:GLY:C	1:K:429:GLN:H	2.15	0.50
1:O:171:ARG:O	1:O:224:GLU:HA	2.11	0.50
1:A:92:ASP:HB3	1:L:561:ASP:OD2	2.10	0.50
1:C:443:ASP:C	1:C:444:LEU:HD13	2.31	0.50
1:G:427:GLY:C	1:G:429:GLN:H	2.15	0.50
1:H:111:VAL:O	1:H:115:VAL:HG13	2.11	0.50
1:Q:325:ASP:O	1:Q:329:LEU:HD23	2.11	0.50
1:T:456:ALA:O	1:T:457:MSE:HB2	2.11	0.50
1:M:405:LEU:O	1:M:409:THR:HG23	2.12	0.50
2:Z:70:SER:HB2	2:Z:75:PRO:O	2.12	0.50
1:R:405:LEU:O	1:R:409:THR:HG23	2.12	0.50
1:J:246:TYR:HE2	1:J:512:GLY:N	2.10	0.50
1:B:248:LYS:HD3	1:B:251:ILE:HB	1.93	0.50
1:B:560:LEU:O	1:B:565:VAL:HG21	2.11	0.50
1:A:251:ILE:O	1:A:507:LEU:HD13	2.11	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:513:ARG:HD3	1:C:513:ARG:H	1.77	0.50
1:F:586:THR:N	1:F:587:PRO:CD	2.74	0.50
1:J:586:THR:N	1:J:587:PRO:CD	2.75	0.50
1:A:429:GLN:O	1:A:429:GLN:HG2	2.10	0.50
1:D:429:GLN:O	1:D:429:GLN:HG2	2.10	0.50
1:L:429:GLN:HG2	1:L:429:GLN:O	2.10	0.50
1:F:418:LEU:HB2	1:F:428:GLY:O	2.12	0.50
1:S:427:GLY:C	1:S:429:GLN:H	2.14	0.50
1:J:81:ARG:HB2	1:J:517:TYR:CE2	2.46	0.50
1:U:427:GLY:C	1:U:429:GLN:H	2.15	0.50
1:I:418:LEU:HB2	1:I:428:GLY:O	2.12	0.50
1:B:101:ASP:HB3	1:B:138:THR:HG21	1.93	0.50
1:D:37:ARG:HH22	1:D:45:LEU:CD1	2.24	0.50
1:D:404:MSE:HE3	1:E:334:MSE:HE3	1.93	0.50
1:D:560:LEU:O	1:D:565:VAL:HG21	2.11	0.50
1:F:302:PRO:O	1:F:439:ASN:CG	2.49	0.50
1:G:302:PRO:O	1:G:439:ASN:CG	2.49	0.50
1:G:37:ARG:HH22	1:G:45:LEU:CD1	2.24	0.50
1:I:101:ASP:HB3	1:I:138:THR:HG21	1.93	0.50
1:I:34:PHE:HE1	1:I:324:LYS:HZ2	1.50	0.50
1:L:113:ILE:HD12	1:L:148:PRO:HB3	1.94	0.50
1:P:325:ASP:O	1:P:329:LEU:HD23	2.11	0.50
1:V:9:GLU:HG3	1:V:12:LEU:H	1.77	0.50
1:U:546:THR:CG2	1:U:547:PRO:HD3	2.31	0.50
1:R:158:TRP:N	1:R:158:TRP:HD1	2.08	0.50
1:J:251:ILE:O	1:J:507:LEU:HD13	2.11	0.50
1:B:246:TYR:HE2	1:B:512:GLY:N	2.10	0.50
1:E:513:ARG:HD3	1:E:513:ARG:H	1.76	0.50
1:L:251:ILE:O	1:L:507:LEU:HD13	2.11	0.50
1:G:563:LYS:HD3	1:H:557:PHE:CE2	2.47	0.50
1:G:573:ASN:O	1:G:577:ILE:HG13	2.10	0.50
1:I:586:THR:N	1:I:587:PRO:CD	2.75	0.50
1:E:586:THR:N	1:E:587:PRO:CD	2.75	0.50
1:W:420:VAL:HG22	1:W:428:GLY:HA3	1.91	0.50
1:I:191:TYR:HE1	1:I:278:LYS:HZ3	1.57	0.50
1:K:418:LEU:HB2	1:K:428:GLY:O	2.12	0.50
1:G:81:ARG:HB2	1:G:517:TYR:CE2	2.46	0.50
1:O:135:GLN:NE2	1:P:514:TYR:HE2	2.09	0.50
1:T:396:GLU:O	1:W:399:GLN:OE1	2.29	0.50
1:N:174:THR:N	3:N:705:HOH:O	2.44	0.50
1:C:81:ARG:HB2	1:C:517:TYR:CE2	2.46	0.50
1:C:418:LEU:HB2	1:C:428:GLY:O	2.12	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:126:TRP:CD1	1:A:146:ARG:HG3	2.46	0.50
1:D:443:ASP:C	1:D:444:LEU:HD13	2.31	0.50
1:G:15:PHE:HZ	1:G:283:CYS:HG	1.60	0.50
1:H:126:TRP:CD1	1:H:146:ARG:HG3	2.46	0.50
1:I:126:TRP:CD1	1:I:146:ARG:HG3	2.46	0.50
1:Q:34:PHE:CE2	1:Q:45:LEU:HG	2.46	0.50
1:R:37:ARG:CB	1:R:37:ARG:HH21	2.24	0.50
1:V:26:ARG:HG2	1:W:212:LEU:HD22	1.94	0.50
1:X:164:LEU:HD22	1:X:169:ASP:CG	2.32	0.50
1:A:14:ARG:NE	1:A:14:ARG:CA	2.67	0.50
1:H:14:ARG:HH11	1:H:17:ALA:HB2	1.76	0.50
1:I:14:ARG:HH11	1:I:17:ALA:HB2	1.76	0.50
2:Z:104:TYR:HB2	2:Z:106:LEU:HD12	1.93	0.50
1:S:302:PRO:O	1:S:439:ASN:ND2	2.44	0.50
1:K:246:TYR:HE2	1:K:512:GLY:N	2.10	0.50
1:K:251:ILE:O	1:K:507:LEU:HD13	2.11	0.50
1:K:510:ILE:O	1:K:513:ARG:HD2	2.12	0.50
1:L:246:TYR:HE2	1:L:512:GLY:N	2.10	0.50
1:L:248:LYS:HD3	1:L:251:ILE:HB	1.93	0.50
1:E:535:ILE:HD11	1:E:554:LEU:HG	1.94	0.50
1:M:535:ILE:HD13	1:M:554:LEU:HG	1.93	0.50
1:Q:266:ILE:HG23	1:Q:267:ALA:N	2.26	0.50
1:V:266:ILE:HG23	1:V:267:ALA:N	2.26	0.50
1:T:235:TYR:HA	1:T:265:LYS:HB3	1.94	0.50
1:S:235:TYR:HA	1:S:265:LYS:HB3	1.94	0.50
1:B:409:THR:O	1:B:413:LYS:HG2	2.12	0.50
1:L:409:THR:O	1:L:413:LYS:HG2	2.12	0.50
1:C:584:PRO:HG2	1:C:593:LEU:HD12	1.94	0.50
1:L:535:ILE:HD11	1:L:554:LEU:HG	1.94	0.50
1:X:598:GLN:HB2	1:X:601:GLN:HB2	1.92	0.50
1:K:429:GLN:O	1:K:429:GLN:HG2	2.10	0.50
1:G:198:ILE:HG22	1:G:198:ILE:O	2.12	0.50
1:A:81:ARG:HB2	1:A:517:TYR:CE2	2.46	0.50
1:C:409:THR:O	1:C:413:LYS:HG2	2.12	0.50
1:E:37:ARG:HH22	1:E:45:LEU:CD1	2.24	0.50
1:E:94:LEU:HA	1:E:97:MSE:CE	2.37	0.50
1:F:35:PHE:HE2	1:F:324:LYS:NZ	2.08	0.50
1:F:443:ASP:C	1:F:444:LEU:HD13	2.31	0.50
1:H:37:ARG:HH22	1:H:45:LEU:CD1	2.24	0.50
1:K:126:TRP:CD1	1:K:146:ARG:HG3	2.46	0.50
1:K:14:ARG:HH11	1:K:17:ALA:HB2	1.76	0.50
1:L:302:PRO:O	1:L:439:ASN:CG	2.49	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:560:LEU:O	1:K:565:VAL:HG21	2.11	0.50
1:R:48:TYR:CD2	1:R:48:TYR:O	5.16	0.50
1:S:344:THR:O	1:S:344:THR:HG23	2.11	0.50
1:U:37:ARG:CB	1:U:37:ARG:HH21	2.24	0.50
1:U:443:ASP:C	1:U:446:THR:HG22	2.32	0.50
1:V:34:PHE:CE2	1:V:45:LEU:HG	2.46	0.50
1:W:434:THR:HG23	1:W:435:VAL:N	2.26	0.50
1:P:158:TRP:N	1:P:158:TRP:HD1	2.07	0.50
1:C:535:ILE:HD11	1:C:554:LEU:HG	1.94	0.50
1:D:248:LYS:HD3	1:D:251:ILE:HB	1.93	0.50
1:D:251:ILE:O	1:D:507:LEU:HD13	2.11	0.50
1:H:510:ILE:O	1:H:513:ARG:HD2	2.12	0.50
1:A:246:TYR:HE2	1:A:512:GLY:N	2.10	0.50
1:F:246:TYR:HE2	1:F:512:GLY:N	2.10	0.50
1:T:535:ILE:HD13	1:T:554:LEU:HG	1.93	0.50
1:L:57:PHE:CD2	1:L:330:ARG:CB	2.95	0.50
1:Q:573:ASN:O	1:Q:577:ILE:HG13	2.12	0.50
1:D:535:ILE:HD11	1:D:554:LEU:HG	1.94	0.50
1:G:586:THR:N	1:G:587:PRO:CD	2.75	0.50
1:F:113:ILE:HD12	1:F:148:PRO:HB3	1.94	0.50
1:E:113:ILE:HD12	1:E:148:PRO:HB3	1.94	0.50
1:N:379:GLU:O	1:N:380:ASN:CB	2.59	0.50
1:S:598:GLN:HB2	1:S:601:GLN:HB2	1.92	0.50
1:U:55:GLY:HA3	1:U:57:PHE:CE1	2.46	0.50
1:E:81:ARG:HB2	1:E:517:TYR:CE2	2.46	0.50
1:D:81:ARG:HB2	1:D:517:TYR:CE2	2.46	0.50
1:W:351:PHE:CD2	1:W:356:ILE:HD12	2.46	0.50
2:Y:89:VAL:C	2:Y:91:ALA:H	2.15	0.50
1:H:81:ARG:HB2	1:H:517:TYR:CE2	2.46	0.50
1:C:34:PHE:HE1	1:C:324:LYS:HZ2	1.46	0.50
1:D:101:ASP:HB3	1:D:138:THR:HG21	1.93	0.50
1:D:136:SER:N	1:D:137:PRO:HD3	2.27	0.50
1:D:126:TRP:CD1	1:D:146:ARG:HG3	2.46	0.50
1:D:409:THR:O	1:D:413:LYS:HG2	2.12	0.50
1:E:560:LEU:O	1:E:565:VAL:HG21	2.11	0.50
1:F:57:PHE:CD2	1:F:330:ARG:CB	2.95	0.50
1:H:427:GLY:C	1:H:429:GLN:H	2.15	0.50
1:J:126:TRP:CD1	1:J:146:ARG:HG3	2.46	0.50
1:L:560:LEU:O	1:L:565:VAL:HG21	2.11	0.50
1:Q:9:GLU:HG3	1:Q:12:LEU:H	1.77	0.50
1:V:165:MSE:HE1	1:V:435:VAL:HB	1.94	0.50
1:B:14:ARG:HH11	1:B:17:ALA:HB2	1.76	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:Z:72:ASP:OD1	2:Z:72:ASP:O	2.30	0.50
2:Y:70:SER:HB2	2:Y:75:PRO:O	2.12	0.50
2:Y:72:ASP:O	2:Y:72:ASP:OD1	2.30	0.50
1:K:513:ARG:HD3	1:K:513:ARG:H	1.77	0.50
1:B:513:ARG:HD3	1:B:513:ARG:H	1.77	0.50
1:D:246:TYR:HE2	1:D:512:GLY:N	2.10	0.50
1:D:510:ILE:O	1:D:513:ARG:HD2	2.12	0.50
1:H:248:LYS:HD3	1:H:251:ILE:HB	1.93	0.50
1:A:513:ARG:HD3	1:A:513:ARG:H	1.76	0.50
1:A:510:ILE:O	1:A:513:ARG:HD2	2.12	0.50
1:C:251:ILE:O	1:C:507:LEU:HD13	2.11	0.50
1:E:251:ILE:O	1:E:507:LEU:HD13	2.11	0.50
1:U:235:TYR:HA	1:U:265:LYS:HB3	1.94	0.50
1:I:535:ILE:HD11	1:I:554:LEU:HG	1.94	0.50
1:K:409:THR:O	1:K:413:LYS:HG2	2.12	0.50
1:S:573:ASN:O	1:S:577:ILE:HG13	2.12	0.50
1:B:113:ILE:HD12	1:B:148:PRO:HB3	1.94	0.50
1:N:586:THR:N	1:N:587:PRO:CD	2.75	0.50
1:K:113:ILE:HD12	1:K:148:PRO:HB3	1.94	0.50
1:M:322:LEU:H	1:M:322:LEU:HD22	1.77	0.50
1:D:418:LEU:HB2	1:D:428:GLY:O	2.12	0.50
1:B:81:ARG:HB2	1:B:517:TYR:CE2	2.46	0.50
1:A:136:SER:N	1:A:137:PRO:HD3	2.27	0.50
1:A:160:SER:HB3	1:A:171:ARG:NH2	2.27	0.50
1:C:37:ARG:HH22	1:C:45:LEU:CD1	2.24	0.50
1:E:126:TRP:CD1	1:E:146:ARG:HG3	2.46	0.50
1:E:409:THR:O	1:E:413:LYS:HG2	2.12	0.50
1:C:561:ASP:OD2	1:E:92:ASP:HB3	2.12	0.50
1:G:126:TRP:CD1	1:G:146:ARG:HG3	2.46	0.50
1:G:409:THR:O	1:G:413:LYS:HG2	2.12	0.50
1:I:334:MSE:HE3	1:J:404:MSE:HE3	1.93	0.50
1:I:560:LEU:O	1:I:565:VAL:HG21	2.11	0.50
1:J:128:LEU:HD12	1:J:446:THR:HG23	1.94	0.50
2:Z:28:VAL:HG21	2:Z:96:LEU:CG	2.40	0.50
1:P:34:PHE:CE2	1:P:45:LEU:HG	2.46	0.50
1:R:444:LEU:O	1:R:448:VAL:HG23	2.11	0.50
1:U:47:GLN:HG2	1:U:48:TYR:N	2.26	0.50
1:U:78:VAL:CG1	1:U:79:LEU:N	2.74	0.50
1:V:343:ARG:O	1:V:344:THR:HB	2.12	0.50
1:N:27:ARG:NH2	1:V:41:TRP:HE1	2.10	0.50
1:S:14:ARG:NE	1:S:14:ARG:CA	2.69	0.50
1:S:9:GLU:HG3	1:S:12:LEU:H	1.77	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:513:ARG:HD3	1:D:513:ARG:H	1.77	0.50
1:R:235:TYR:HA	1:R:265:LYS:HB3	1.94	0.50
1:A:352:TRP:CD1	1:L:376:ARG:HB2	2.47	0.50
1:D:586:THR:N	1:D:587:PRO:CD	2.75	0.50
1:L:586:THR:N	1:L:587:PRO:CD	2.75	0.50
1:U:379:GLU:O	1:U:380:ASN:CB	2.59	0.50
1:C:136:SER:N	1:C:137:PRO:HD3	2.27	0.50
1:E:418:LEU:HB2	1:E:428:GLY:O	2.12	0.50
1:V:322:LEU:N	1:V:322:LEU:HD22	2.27	0.50
1:G:418:LEU:HB2	1:G:428:GLY:O	2.12	0.50
1:E:111:VAL:O	1:E:115:VAL:HG13	2.11	0.50
1:E:160:SER:HB3	1:E:171:ARG:NH2	2.27	0.50
1:F:160:SER:HB3	1:F:171:ARG:NH2	2.27	0.50
1:F:409:THR:O	1:F:413:LYS:HG2	2.12	0.50
1:I:160:SER:HB3	1:I:171:ARG:NH2	2.27	0.50
1:J:409:THR:O	1:J:413:LYS:HG2	2.12	0.50
1:L:14:ARG:HH11	1:L:17:ALA:HB2	1.76	0.50
1:O:48:TYR:O	1:O:48:TYR:HD2	5.13	0.50
1:L:126:TRP:CD1	1:L:146:ARG:HG3	2.46	0.50
1:Q:434:THR:O	1:Q:437:GLN:HG2	2.11	0.50
1:Q:444:LEU:O	1:Q:448:VAL:HG23	2.11	0.50
1:R:27:ARG:HB2	1:R:313:LYS:HE3	1.94	0.50
1:S:434:THR:HG23	1:S:435:VAL:N	2.26	0.50
1:X:35:PHE:HE1	1:X:321:ARG:NH1	2.06	0.50
1:X:78:VAL:CG1	1:X:444:LEU:HG	2.42	0.50
1:M:413:LYS:HA	1:M:416:ALA:HB3	1.93	0.50
1:V:248:LYS:HG3	1:V:511:ARG:HE	1.77	0.50
1:G:251:ILE:O	1:G:507:LEU:HD13	2.11	0.50
1:I:248:LYS:HD3	1:I:251:ILE:HB	1.93	0.50
1:L:513:ARG:HD3	1:L:513:ARG:H	1.77	0.50
1:H:535:ILE:HD11	1:H:554:LEU:HG	1.94	0.50
1:B:57:PHE:CD2	1:B:330:ARG:CB	2.95	0.50
1:C:586:THR:N	1:C:587:PRO:CD	2.75	0.50
1:Q:535:ILE:HD13	1:Q:554:LEU:HG	1.94	0.50
1:T:387:GLN:CB	1:W:390:ALA:CB	2.89	0.50
1:E:427:GLY:C	1:E:429:GLN:H	2.15	0.50
1:M:427:GLY:C	1:M:429:GLN:H	2.15	0.50
1:E:198:ILE:O	1:E:198:ILE:HG22	2.12	0.50
1:I:81:ARG:HB2	1:I:517:TYR:CE2	2.46	0.50
1:A:128:LEU:HD12	1:A:446:THR:HG23	1.94	0.50
1:B:160:SER:HB3	1:B:171:ARG:NH2	2.27	0.50
1:C:126:TRP:CD1	1:C:146:ARG:HG3	2.46	0.50

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:160:SER:HB3	1:D:171:ARG:NH2	2.27	0.50
1:F:126:TRP:CD1	1:F:146:ARG:HG3	2.46	0.50
1:G:160:SER:HB3	1:G:171:ARG:NH2	2.27	0.50
1:H:119:ILE:HA	1:H:432:PHE:HE2	1.77	0.50
1:I:57:PHE:CD2	1:I:330:ARG:CB	2.95	0.50
1:J:15:PHE:HZ	1:J:283:CYS:HG	1.60	0.50
1:J:57:PHE:CD2	1:J:330:ARG:CB	2.95	0.50
1:J:37:ARG:HH22	1:J:45:LEU:CD1	2.24	0.50
1:K:160:SER:HB3	1:K:171:ARG:NH2	2.27	0.50
1:O:95:MSE:HE1	1:O:99:ARG:CZ	2.41	0.50
1:S:34:PHE:CE2	1:S:45:LEU:HG	2.46	0.50
1:T:27:ARG:HB2	1:T:313:LYS:HE3	1.94	0.50
1:V:444:LEU:C	1:V:446:THR:H	2.16	0.50
1:V:89:ASP:HA	1:W:561:ASP:CB	2.37	0.50
1:X:78:VAL:HG12	1:X:79:LEU:H	1.74	0.50
1:A:14:ARG:HH11	1:A:17:ALA:HB2	1.76	0.50
1:G:510:ILE:O	1:G:513:ARG:HD2	2.12	0.50
1:G:513:ARG:H	1:G:513:ARG:HD3	1.77	0.50
1:E:248:LYS:HD3	1:E:251:ILE:HB	1.93	0.50
1:E:280:ILE:HG22	1:E:287:LEU:HD13	1.94	0.50
1:A:280:ILE:HG22	1:A:287:LEU:HD13	1.94	0.50
1:D:280:ILE:HG22	1:D:287:LEU:HD13	1.94	0.50
1:L:280:ILE:HG22	1:L:287:LEU:HD13	1.94	0.50
1:K:198:ILE:O	1:K:198:ILE:HG22	2.12	0.50
1:G:584:PRO:HG2	1:G:593:LEU:HD12	1.94	0.50
1:B:584:PRO:HG2	1:B:593:LEU:HD12	1.94	0.50
1:D:584:PRO:CG	1:D:593:LEU:HD12	2.42	0.50
1:I:584:PRO:HG2	1:I:593:LEU:HD12	1.94	0.50
1:K:586:THR:N	1:K:587:PRO:CD	2.75	0.50
1:B:586:THR:N	1:B:587:PRO:CD	2.75	0.50
1:C:113:ILE:HD12	1:C:148:PRO:HB3	1.94	0.50
1:P:95:MSE:HE1	1:P:99:ARG:CZ	2.42	0.50
1:L:427:GLY:C	1:L:429:GLN:H	2.15	0.50
1:J:451:ASP:O	1:J:456:ALA:N	2.41	0.50
1:A:418:LEU:HB2	1:A:428:GLY:O	2.12	0.50
1:H:418:LEU:HB2	1:H:428:GLY:O	2.12	0.50
1:B:44:TRP:CE2	1:B:54:ARG:HB3	2.48	0.49
1:C:427:GLY:C	1:C:429:GLN:H	2.15	0.49
1:D:334:MSE:SE	1:F:404:MSE:HE1	2.61	0.49
1:H:160:SER:HB3	1:H:171:ARG:NH2	2.27	0.49
1:H:409:THR:O	1:H:413:LYS:HG2	2.12	0.49
1:K:111:VAL:O	1:K:115:VAL:HG13	2.11	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:Y:28:VAL:HG11	2:Y:96:LEU:C	2.33	0.49
1:L:128:LEU:HD12	1:L:446:THR:HG23	1.94	0.49
1:Q:456:ALA:O	1:Q:457:MSE:HB2	2.12	0.49
1:Q:48:TYR:CD2	1:Q:48:TYR:O	5.17	0.49
1:U:27:ARG:HB2	1:U:313:LYS:HE3	1.94	0.49
1:W:164:LEU:HD22	1:W:169:ASP:CG	2.33	0.49
1:X:343:ARG:O	1:X:344:THR:HB	2.12	0.49
1:C:14:ARG:HH11	1:C:17:ALA:HB2	1.76	0.49
1:T:9:GLU:HG3	1:T:12:LEU:H	1.76	0.49
1:O:248:LYS:H	1:O:248:LYS:CD	2.17	0.49
1:I:248:LYS:HZ1	1:I:513:ARG:HH12	1.59	0.49
1:A:535:ILE:HD11	1:A:554:LEU:HG	1.94	0.49
1:L:584:PRO:HG2	1:L:593:LEU:HD12	1.94	0.49
1:H:584:PRO:HG2	1:H:593:LEU:HD12	1.94	0.49
1:M:379:GLU:O	1:M:380:ASN:CB	2.60	0.49
1:V:322:LEU:H	1:V:322:LEU:HD22	1.77	0.49
1:W:58:ASP:HA	1:W:327:GLN:NE2	2.27	0.49
1:F:81:ARG:HB2	1:F:517:TYR:CE2	2.46	0.49
1:L:255:ILE:O	1:L:257:ASP:N	2.45	0.49
1:A:44:TRP:CE2	1:A:54:ARG:HB3	2.48	0.49
1:C:128:LEU:HD12	1:C:446:THR:HG23	1.94	0.49
1:E:80:TYR:CE1	1:E:444:LEU:HB3	2.48	0.49
1:F:119:ILE:HA	1:F:432:PHE:HE2	1.78	0.49
1:G:182:ASN:HD22	1:H:171:ARG:HH21	1.58	0.49
1:I:136:SER:N	1:I:137:PRO:HD3	2.27	0.49
1:J:160:SER:HB3	1:J:171:ARG:NH2	2.27	0.49
1:J:429:GLN:O	1:J:429:GLN:HG2	2.10	0.49
1:K:128:LEU:HD12	1:K:446:THR:HG23	1.94	0.49
1:M:164:LEU:HA	1:M:307:TRP:HH2	1.77	0.49
2:Y:28:VAL:HG21	2:Y:96:LEU:CG	2.40	0.49
1:T:444:LEU:C	1:T:446:THR:H	2.14	0.49
1:U:164:LEU:HD22	1:U:169:ASP:CG	2.32	0.49
1:U:46:SER:N	1:U:48:TYR:HE2	1.99	0.49
1:V:434:THR:HA	1:V:437:GLN:HG2	1.93	0.49
1:N:82:PRO:CD	1:V:560:LEU:HD13	2.27	0.49
1:W:443:ASP:C	1:W:446:THR:HG22	2.32	0.49
2:Y:104:TYR:HB2	2:Y:106:LEU:HD12	1.93	0.49
1:N:405:LEU:O	1:N:409:THR:HG23	2.11	0.49
1:J:248:LYS:HD3	1:J:251:ILE:HB	1.93	0.49
1:J:510:ILE:O	1:J:513:ARG:HD2	2.12	0.49
1:I:510:ILE:O	1:I:513:ARG:HD2	2.12	0.49
1:C:246:TYR:HE2	1:C:512:GLY:N	2.10	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:280:ILE:HG22	1:I:287:LEU:HD13	1.94	0.49
1:H:280:ILE:HG22	1:H:287:LEU:HD13	1.94	0.49
1:M:573:ASN:O	1:M:577:ILE:HG13	2.12	0.49
1:L:584:PRO:CG	1:L:593:LEU:HD12	2.42	0.49
1:J:584:PRO:CG	1:J:593:LEU:HD12	2.42	0.49
1:D:584:PRO:HG2	1:D:593:LEU:HD12	1.94	0.49
1:A:586:THR:N	1:A:587:PRO:CD	2.75	0.49
1:C:584:PRO:CG	1:C:593:LEU:HD12	2.42	0.49
1:E:584:PRO:HG2	1:E:593:LEU:HD12	1.94	0.49
1:W:586:THR:N	1:W:587:PRO:CD	2.75	0.49
1:T:40:GLN:HG2	1:W:310:VAL:HG22	1.93	0.49
1:P:95:MSE:HE1	1:P:99:ARG:NH2	2.26	0.49
1:W:66:LYS:HZ3	1:W:420:VAL:HG11	1.77	0.49
1:Q:387:GLN:CB	1:R:390:ALA:CB	2.90	0.49
1:B:427:GLY:C	1:B:429:GLN:H	2.15	0.49
1:I:255:ILE:O	1:I:257:ASP:N	2.45	0.49
1:L:418:LEU:HB2	1:L:428:GLY:O	2.12	0.49
1:H:578:GLN:HG2	1:H:596:ALA:HB2	1.94	0.49
2:Y:38:GLU:N	2:Y:39:PRO:HD3	2.26	0.49
1:A:409:THR:O	1:A:413:LYS:HG2	2.12	0.49
1:B:126:TRP:CD1	1:B:146:ARG:HG3	2.46	0.49
1:C:328:ARG:HB3	2:Z:142:PRO:HG3	1.94	0.49
1:D:119:ILE:HA	1:D:432:PHE:HE2	1.78	0.49
1:G:119:ILE:HA	1:G:432:PHE:HE2	1.77	0.49
1:K:37:ARG:HH22	1:K:45:LEU:CD1	2.24	0.49
1:L:160:SER:HB3	1:L:171:ARG:NH2	2.27	0.49
1:N:443:ASP:C	1:N:446:THR:HG22	2.33	0.49
1:Q:93:VAL:CG1	1:Q:458:ARG:HG3	2.38	0.49
1:S:78:VAL:CG1	1:S:79:LEU:N	2.74	0.49
1:J:535:ILE:HD11	1:J:554:LEU:HG	1.94	0.49
1:G:280:ILE:HG22	1:G:287:LEU:HD13	1.94	0.49
1:X:235:TYR:HA	1:X:265:LYS:HB3	1.94	0.49
1:G:584:PRO:CG	1:G:593:LEU:HD12	2.42	0.49
1:B:584:PRO:CG	1:B:593:LEU:HD12	2.42	0.49
1:H:586:THR:N	1:H:587:PRO:CD	2.75	0.49
1:H:584:PRO:CG	1:H:593:LEU:HD12	2.42	0.49
1:K:535:ILE:HD11	1:K:554:LEU:HG	1.94	0.49
1:L:386:THR:O	1:L:387:GLN:O	2.31	0.49
1:X:95:MSE:HE1	1:X:99:ARG:CZ	2.42	0.49
1:D:427:GLY:C	1:D:429:GLN:H	2.14	0.49
1:C:456:ALA:HB1	1:C:509:ASP:OD2	2.13	0.49
1:X:58:ASP:HA	1:X:327:GLN:NE2	2.27	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:359:PHE:HD1	2:Z:129:ILE:HD11	1.76	0.49
1:A:255:ILE:O	1:A:257:ASP:N	2.45	0.49
1:A:456:ALA:HB1	1:A:509:ASP:OD2	2.13	0.49
1:A:560:LEU:O	1:A:565:VAL:HG21	2.11	0.49
1:B:119:ILE:HA	1:B:432:PHE:HE2	1.77	0.49
1:C:34:PHE:O	1:C:34:PHE:CG	2.66	0.49
1:E:101:ASP:HB3	1:E:138:THR:HG21	1.93	0.49
1:E:136:SER:N	1:E:137:PRO:HD3	2.27	0.49
1:G:101:ASP:HB3	1:G:138:THR:HG21	1.93	0.49
1:G:47:GLN:HG3	1:G:54:ARG:NH1	2.28	0.49
1:H:128:LEU:HD12	1:H:446:THR:HG23	1.94	0.49
1:I:34:PHE:HZ	1:I:328:ARG:HH22	0.80	0.49
1:J:113:ILE:HD12	1:J:148:PRO:HB3	1.94	0.49
1:J:427:GLY:C	1:J:429:GLN:H	2.15	0.49
1:K:44:TRP:CE2	1:K:54:ARG:HB3	2.47	0.49
1:L:119:ILE:HA	1:L:432:PHE:HE2	1.77	0.49
1:L:44:TRP:CE2	1:L:54:ARG:HB3	2.48	0.49
1:M:46:SER:N	1:M:48:TYR:HE2	1.98	0.49
1:M:80:TYR:CE1	1:M:448:VAL:HG22	2.48	0.49
1:O:48:TYR:O	1:O:48:TYR:CD2	5.16	0.49
1:O:95:MSE:HB3	1:O:527:MSE:HE1	1.93	0.49
1:K:136:SER:N	1:K:137:PRO:HD3	2.27	0.49
1:U:123:VAL:CG1	1:U:304:PHE:CE1	2.95	0.49
1:V:434:THR:O	1:V:437:GLN:HG2	2.11	0.49
1:Q:409:THR:O	1:Q:413:LYS:HG2	2.12	0.49
1:H:246:TYR:HE2	1:H:512:GLY:N	2.10	0.49
1:H:513:ARG:HD3	1:H:513:ARG:H	1.77	0.49
1:I:246:TYR:HE2	1:I:512:GLY:N	2.10	0.49
1:B:280:ILE:HG22	1:B:287:LEU:HD13	1.94	0.49
1:H:198:ILE:O	1:H:198:ILE:HG22	2.12	0.49
1:J:280:ILE:HG22	1:J:287:LEU:HD13	1.94	0.49
1:K:280:ILE:HG22	1:K:287:LEU:HD13	1.95	0.49
1:M:266:ILE:HG23	1:M:267:ALA:N	2.27	0.49
1:P:235:TYR:HA	1:P:265:LYS:HB3	1.95	0.49
1:P:266:ILE:HG23	1:P:267:ALA:N	2.27	0.49
1:G:535:ILE:HD11	1:G:554:LEU:HG	1.94	0.49
1:J:584:PRO:HG2	1:J:593:LEU:HD12	1.94	0.49
1:O:384:LEU:HD22	1:O:384:LEU:N	2.27	0.49
1:O:586:THR:N	1:O:587:PRO:CD	2.75	0.49
1:V:586:THR:N	1:V:587:PRO:CD	2.76	0.49
1:K:386:THR:O	1:K:387:GLN:O	2.31	0.49
1:D:386:THR:O	1:D:387:GLN:O	2.31	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:379:GLU:O	1:Q:380:ASN:CB	2.60	0.49
1:V:95:MSE:HE1	1:V:99:ARG:CZ	2.42	0.49
1:X:95:MSE:HE1	1:X:99:ARG:NH2	2.28	0.49
1:J:456:ALA:HB1	1:J:509:ASP:OD2	2.13	0.49
1:D:456:ALA:HB1	1:D:509:ASP:OD2	2.13	0.49
1:K:456:ALA:HB1	1:K:509:ASP:OD2	2.13	0.49
1:L:63:VAL:HG21	1:L:416:ALA:HB1	1.93	0.49
1:E:451:ASP:O	1:E:456:ALA:N	2.41	0.49
1:J:578:GLN:HG2	1:J:596:ALA:HB2	1.94	0.49
1:F:456:ALA:HB1	1:F:509:ASP:OD2	2.13	0.49
1:R:191:TYR:HE1	1:R:278:LYS:HZ3	1.60	0.49
1:G:456:ALA:HB1	1:G:509:ASP:OD2	2.13	0.49
1:B:34:PHE:O	1:B:34:PHE:CG	2.66	0.49
1:C:160:SER:HB3	1:C:171:ARG:NH2	2.27	0.49
1:F:37:ARG:HH22	1:F:45:LEU:CD1	2.24	0.49
1:J:44:TRP:CE2	1:J:54:ARG:HB3	2.47	0.49
1:J:334:MSE:HE3	1:K:404:MSE:HE3	1.94	0.49
1:M:443:ASP:C	1:M:446:THR:HG22	2.32	0.49
1:O:443:ASP:C	1:O:444:LEU:HD13	2.32	0.49
1:P:456:ALA:O	1:P:457:MSE:HB2	2.11	0.49
1:P:48:TYR:O	1:P:48:TYR:CD2	5.17	0.49
1:R:48:TYR:HD2	1:R:48:TYR:O	5.13	0.49
1:W:101:ASP:HB2	1:W:144:ILE:O	2.11	0.49
1:S:407:ALA:HB1	1:U:334:MSE:HE1	1.94	0.49
1:T:48:TYR:O	1:T:48:TYR:CD2	5.17	0.49
1:I:251:ILE:O	1:I:507:LEU:HD13	2.11	0.49
1:F:513:ARG:H	1:F:513:ARG:HD3	1.76	0.49
1:A:198:ILE:O	1:A:198:ILE:HG22	2.12	0.49
1:C:198:ILE:HG22	1:C:198:ILE:O	2.12	0.49
1:Q:235:TYR:HA	1:Q:265:LYS:HB3	1.94	0.49
1:F:535:ILE:HD11	1:F:554:LEU:HG	1.94	0.49
1:Q:586:THR:N	1:Q:587:PRO:CD	2.76	0.49
1:S:586:THR:N	1:S:587:PRO:CD	2.76	0.49
1:A:113:ILE:HD12	1:A:148:PRO:HB3	1.94	0.49
1:P:586:THR:N	1:P:587:PRO:CD	2.76	0.49
1:V:386:THR:O	1:V:387:GLN:C	2.51	0.49
1:O:379:GLU:O	1:O:380:ASN:CB	2.60	0.49
1:M:390:ALA:HB2	1:N:387:GLN:HB2	1.95	0.49
1:J:418:LEU:HB2	1:J:428:GLY:O	2.12	0.49
1:J:255:ILE:O	1:J:257:ASP:N	2.45	0.49
1:D:348:LYS:HB2	1:E:372:TYR:CE2	2.47	0.49
1:D:255:ILE:O	1:D:257:ASP:N	2.45	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:418:LEU:HB2	1:B:428:GLY:O	2.12	0.49
1:B:136:SER:N	1:B:137:PRO:HD3	2.27	0.49
1:C:44:TRP:CE2	1:C:54:ARG:HB3	2.47	0.49
1:C:560:LEU:O	1:C:565:VAL:HG21	2.11	0.49
1:E:44:TRP:CE2	1:E:54:ARG:HB3	2.47	0.49
1:E:528:LYS:HZ3	1:E:560:LEU:HD21	1.77	0.49
1:F:34:PHE:O	1:F:34:PHE:CG	2.65	0.49
1:I:119:ILE:HA	1:I:432:PHE:HE2	1.77	0.49
1:I:37:ARG:HH21	1:I:37:ARG:CB	2.16	0.49
1:I:47:GLN:HG3	1:I:54:ARG:NH1	2.28	0.49
1:L:47:GLN:HG3	1:L:54:ARG:NH1	2.28	0.49
1:O:34:PHE:CE2	1:O:45:LEU:HG	2.45	0.49
1:L:80:TYR:CE1	1:L:444:LEU:HB3	2.48	0.49
1:N:48:TYR:HD2	1:N:48:TYR:O	5.13	0.49
1:R:165:MSE:HG3	1:R:307:TRP:CD2	2.47	0.49
1:V:78:VAL:CG1	1:V:79:LEU:N	2.73	0.49
1:X:33:LEU:HD12	1:X:34:PHE:N	2.28	0.49
1:O:405:LEU:O	1:O:409:THR:HG23	2.12	0.49
1:B:535:ILE:HD11	1:B:554:LEU:HG	1.94	0.49
1:B:236:GLN:CB	1:B:265:LYS:HG2	2.37	0.49
1:I:226:VAL:O	1:I:274:ARG:HA	2.13	0.49
1:P:418:LEU:HB2	1:P:428:GLY:O	2.13	0.49
1:A:584:PRO:CG	1:A:593:LEU:HD12	2.42	0.49
1:G:113:ILE:HD12	1:G:148:PRO:HB3	1.94	0.49
1:Q:95:MSE:HB3	1:Q:527:MSE:HE1	1.93	0.49
1:E:386:THR:O	1:E:387:GLN:O	2.31	0.49
1:M:95:MSE:HE1	1:M:99:ARG:NH2	2.28	0.49
1:E:255:ILE:O	1:E:257:ASP:N	2.45	0.49
1:O:372:TYR:CE2	1:P:348:LYS:HB2	2.47	0.49
1:P:191:TYR:HE1	1:P:278:LYS:HZ3	1.61	0.49
1:D:398:PRO:HB3	1:E:395:PRO:HD2	1.93	0.49
1:D:578:GLN:HG2	1:D:596:ALA:HB2	1.94	0.49
1:B:255:ILE:O	1:B:257:ASP:N	2.45	0.49
1:C:94:LEU:HA	1:C:97:MSE:CE	2.37	0.49
1:E:128:LEU:HD12	1:E:446:THR:HG23	1.94	0.49
1:E:34:PHE:O	1:E:34:PHE:CG	2.66	0.49
1:F:427:GLY:C	1:F:429:GLN:H	2.15	0.49
1:G:80:TYR:CE1	1:G:444:LEU:HB3	2.48	0.49
1:I:44:TRP:CE2	1:I:54:ARG:HB3	2.48	0.49
1:M:24:GLU:C	1:M:26:ARG:N	2.55	0.49
1:O:27:ARG:HB2	1:O:313:LYS:HE3	1.94	0.49
1:O:418:LEU:HB2	1:O:428:GLY:O	2.13	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:95:MSE:HE1	1:O:99:ARG:NH2	2.28	0.49
1:K:561:ASP:HB2	1:L:89:ASP:CA	2.32	0.49
1:Q:123:VAL:HG22	1:Q:316:TYR:CE2	2.48	0.49
1:S:92:ASP:HB3	1:U:561:ASP:OD2	2.13	0.49
1:X:14:ARG:NE	1:X:14:ARG:CA	2.71	0.49
1:U:248:LYS:HG3	1:U:511:ARG:HE	1.78	0.49
1:P:248:LYS:HG3	1:P:511:ARG:HE	1.77	0.49
2:Z:23:LEU:HD23	2:Z:26:LEU:HD11	1.94	0.49
1:G:226:VAL:O	1:G:274:ARG:HA	2.13	0.49
1:B:510:ILE:O	1:B:513:ARG:HD2	2.12	0.49
1:L:510:ILE:O	1:L:513:ARG:HD2	2.12	0.49
1:J:198:ILE:O	1:J:198:ILE:HG22	2.12	0.49
1:V:235:TYR:HA	1:V:265:LYS:HB3	1.93	0.49
1:R:586:THR:N	1:R:587:PRO:CD	2.76	0.49
1:P:379:GLU:O	1:P:380:ASN:CB	2.60	0.49
1:N:95:MSE:HE1	1:N:99:ARG:NH2	2.27	0.49
1:R:379:GLU:O	1:R:380:ASN:CB	2.61	0.49
1:S:430:VAL:HG11	3:U:719:HOH:O	2.10	0.49
1:E:456:ALA:HB1	1:E:509:ASP:OD2	2.13	0.49
1:I:578:GLN:HG2	1:I:596:ALA:HB2	1.94	0.49
1:H:255:ILE:O	1:H:257:ASP:N	2.45	0.49
1:T:351:PHE:CD2	1:T:356:ILE:HD12	2.47	0.49
1:F:80:TYR:CE1	1:F:444:LEU:HB3	2.48	0.49
1:G:136:SER:N	1:G:137:PRO:HD3	2.27	0.49
1:H:47:GLN:HG3	1:H:54:ARG:NH1	2.28	0.49
1:I:409:THR:O	1:I:413:LYS:HG2	2.12	0.49
1:I:80:TYR:CE1	1:I:444:LEU:HB3	2.48	0.49
1:J:80:TYR:CE1	1:J:444:LEU:HB3	2.47	0.49
1:K:119:ILE:HA	1:K:432:PHE:HE2	1.78	0.49
1:K:48:TYR:HD2	1:K:48:TYR:O	4.89	0.49
1:P:37:ARG:HH21	1:P:37:ARG:CB	2.26	0.49
1:T:37:ARG:C	1:T:39:SER:N	2.66	0.49
1:U:9:GLU:HG3	1:U:12:LEU:H	1.78	0.49
1:T:451:ASP:C	1:T:453:LEU:H	2.15	0.49
1:C:15:PHE:CE2	1:C:19:TRP:NE1	2.81	0.49
1:E:246:TYR:HE2	1:E:512:GLY:N	2.10	0.49
1:L:226:VAL:O	1:L:274:ARG:HA	2.13	0.49
1:C:577:ILE:HG12	1:C:582:LYS:CG	2.41	0.49
1:G:577:ILE:HG12	1:G:582:LYS:CG	2.41	0.49
1:O:535:ILE:HD13	1:O:554:LEU:HG	1.95	0.49
1:R:66:LYS:HZ3	1:R:420:VAL:HG21	1.77	0.49
1:K:584:PRO:CG	1:K:593:LEU:HD12	2.42	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:H:719:HOH:O	1:I:438:LEU:HD22	2.12	0.49
1:D:113:ILE:HD12	1:D:148:PRO:HB3	1.94	0.49
1:W:9:GLU:HG3	1:W:12:LEU:H	1.78	0.49
1:V:535:ILE:HD13	1:V:554:LEU:HG	1.94	0.49
1:F:386:THR:O	1:F:387:GLN:O	2.31	0.49
1:I:386:THR:O	1:I:387:GLN:O	2.31	0.49
1:V:598:GLN:HB2	1:V:601:GLN:HB3	1.94	0.49
3:R:719:HOH:O	1:X:430:VAL:HG11	2.13	0.49
1:W:427:GLY:C	1:W:429:GLN:H	2.14	0.49
1:V:55:GLY:HA3	1:V:57:PHE:CE1	2.48	0.49
1:M:171:ARG:O	1:M:224:GLU:HA	2.13	0.49
1:B:80:TYR:CE1	1:B:444:LEU:HB3	2.48	0.49
1:C:47:GLN:HG3	1:C:54:ARG:NH1	2.28	0.49
1:E:15:PHE:CE2	1:E:19:TRP:NE1	2.81	0.49
1:H:80:TYR:CE1	1:H:444:LEU:HB3	2.47	0.49
1:I:34:PHE:CG	1:I:34:PHE:O	2.66	0.49
1:J:47:GLN:HG3	1:J:54:ARG:NH1	2.28	0.49
1:K:80:TYR:CE1	1:K:444:LEU:HB3	2.48	0.49
1:K:48:TYR:O	1:K:48:TYR:CD2	5.23	0.49
1:M:44:TRP:C	1:M:45:LEU:HD22	2.33	0.49
1:P:443:ASP:C	1:P:446:THR:HG22	2.33	0.49
1:Q:27:ARG:HB2	1:Q:313:LYS:HE3	1.94	0.49
1:T:443:ASP:C	1:T:446:THR:HG22	2.34	0.49
1:S:405:LEU:O	1:S:409:THR:HG23	2.12	0.49
1:J:513:ARG:H	1:J:513:ARG:HD3	1.77	0.49
1:K:248:LYS:HD3	1:K:251:ILE:HB	1.93	0.49
1:G:246:TYR:HE2	1:G:512:GLY:N	2.10	0.49
1:C:15:PHE:HZ	1:C:283:CYS:SG	2.31	0.49
1:C:510:ILE:O	1:C:513:ARG:HD2	2.12	0.49
1:F:510:ILE:O	1:F:513:ARG:HD2	2.12	0.49
1:F:280:ILE:HG22	1:F:287:LEU:HD13	1.94	0.49
1:L:198:ILE:O	1:L:198:ILE:HG22	2.12	0.49
1:M:554:LEU:HD21	1:N:564:GLY:CA	2.38	0.49
1:X:266:ILE:HG23	1:X:267:ALA:N	2.26	0.49
1:K:334:MSE:SE	1:L:404:MSE:HE1	2.62	0.49
1:H:113:ILE:HD12	1:H:148:PRO:HB3	1.94	0.49
1:T:586:THR:N	1:T:587:PRO:CD	2.75	0.49
1:H:386:THR:O	1:H:387:GLN:O	2.31	0.49
1:B:386:THR:O	1:B:387:GLN:O	2.31	0.49
1:F:578:GLN:HG2	1:F:596:ALA:HB2	1.94	0.49
1:B:456:ALA:HB1	1:B:509:ASP:OD2	2.13	0.49
1:L:578:GLN:HG2	1:L:596:ALA:HB2	1.94	0.49

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:578:GLN:HG2	1:C:596:ALA:HB2	1.94	0.49
1:W:71:MSE:HE2	1:W:119:ILE:HD11	1.94	0.49
1:D:47:GLN:HG3	1:D:54:ARG:NH1	2.28	0.49
1:F:136:SER:N	1:F:137:PRO:HD3	2.27	0.49
1:H:136:SER:N	1:H:137:PRO:HD3	2.27	0.49
1:M:78:VAL:CG1	1:M:79:LEU:N	2.75	0.49
1:P:443:ASP:C	1:P:444:LEU:HD13	2.34	0.49
1:Q:443:ASP:C	1:Q:446:THR:HG22	2.34	0.49
1:R:164:LEU:HA	1:R:307:TRP:HH2	1.78	0.49
1:R:78:VAL:CG1	1:R:444:LEU:HG	2.43	0.49
1:V:31:ASN:O	1:V:34:PHE:HB3	2.12	0.49
1:V:456:ALA:O	1:V:457:MSE:HB2	2.13	0.49
1:N:14:ARG:CA	1:N:14:ARG:NE	2.70	0.49
1:B:14:ARG:CA	1:B:14:ARG:NE	2.67	0.49
1:S:413:LYS:HA	1:S:416:ALA:HB3	1.94	0.49
1:E:510:ILE:O	1:E:513:ARG:HD2	2.12	0.49
1:S:535:ILE:HD13	1:S:554:LEU:HG	1.95	0.49
1:P:535:ILE:HD13	1:P:554:LEU:HG	1.95	0.49
1:N:235:TYR:OH	1:N:252:LYS:NZ	2.45	0.49
1:Q:95:MSE:HE1	1:Q:99:ARG:NH2	2.28	0.49
1:T:386:THR:O	1:T:387:GLN:C	2.51	0.49
1:R:387:GLN:HB2	1:X:390:ALA:HB2	1.94	0.49
1:O:55:GLY:HA3	1:O:57:PHE:CE1	2.48	0.49
1:H:456:ALA:HB1	1:H:509:ASP:OD2	2.13	0.49
1:G:255:ILE:O	1:G:257:ASP:N	2.45	0.49
1:K:255:ILE:O	1:K:257:ASP:N	2.45	0.49
1:A:34:PHE:CG	1:A:34:PHE:O	2.66	0.48
1:C:329:LEU:HD22	2:Z:142:PRO:HG2	1.94	0.48
1:C:80:TYR:CE1	1:C:444:LEU:HB3	2.48	0.48
1:E:47:GLN:HG3	1:E:54:ARG:NH1	2.28	0.48
1:F:44:TRP:CE2	1:F:54:ARG:HB3	2.47	0.48
1:G:142:GLN:O	1:G:143:VAL:HG23	2.13	0.48
1:G:15:PHE:CE2	1:G:19:TRP:NE1	2.81	0.48
1:G:57:PHE:CD2	1:G:330:ARG:CB	2.95	0.48
1:I:15:PHE:CE2	1:I:19:TRP:NE1	2.81	0.48
1:L:15:PHE:CE2	1:L:19:TRP:NE1	2.81	0.48
1:M:31:ASN:O	1:M:34:PHE:HB3	2.12	0.48
1:M:35:PHE:C	1:M:37:ARG:H	2.16	0.48
1:N:343:ARG:O	1:N:344:THR:HB	2.13	0.48
1:P:434:THR:O	1:P:437:GLN:HG2	2.12	0.48
1:R:444:LEU:C	1:R:446:THR:H	2.15	0.48
1:W:37:ARG:C	1:W:39:SER:N	2.67	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:48:TYR:O	1:T:48:TYR:HD2	5.14	0.48
1:K:226:VAL:O	1:K:274:ARG:HA	2.13	0.48
1:G:248:LYS:HD3	1:G:251:ILE:HB	1.93	0.48
1:C:226:VAL:O	1:C:274:ARG:HA	2.13	0.48
1:F:236:GLN:HE21	1:F:265:LYS:HZ3	1.61	0.48
1:Q:235:TYR:OH	1:Q:252:LYS:NZ	2.46	0.48
1:M:235:TYR:OH	1:M:252:LYS:NZ	2.45	0.48
1:X:456:ALA:O	1:X:457:MSE:HB2	2.12	0.48
1:V:573:ASN:O	1:V:577:ILE:HG13	2.13	0.48
1:I:584:PRO:CG	1:I:593:LEU:HD12	2.42	0.48
1:N:384:LEU:N	1:N:384:LEU:HD22	2.28	0.48
1:X:586:THR:N	1:X:587:PRO:CD	2.76	0.48
1:X:293:ILE:HD13	1:X:294:ALA:N	2.28	0.48
1:V:379:GLU:O	1:V:380:ASN:CB	2.61	0.48
1:T:598:GLN:HB2	1:T:601:GLN:HB3	1.95	0.48
1:W:598:GLN:HB2	1:W:601:GLN:HB3	1.95	0.48
1:S:598:GLN:HB2	1:S:601:GLN:HB3	1.95	0.48
1:W:95:MSE:HE1	1:W:99:ARG:CZ	2.43	0.48
1:A:578:GLN:HG2	1:A:596:ALA:HB2	1.94	0.48
1:I:456:ALA:HB1	1:I:509:ASP:OD2	2.13	0.48
1:A:15:PHE:CE2	1:A:19:TRP:NE1	2.81	0.48
1:E:11:ILE:O	1:E:15:PHE:HB2	2.13	0.48
1:G:34:PHE:CG	1:G:34:PHE:O	2.66	0.48
1:H:44:TRP:CE2	1:H:54:ARG:HB3	2.47	0.48
1:J:34:PHE:CG	1:J:34:PHE:O	2.65	0.48
1:K:142:GLN:O	1:K:143:VAL:HG23	2.13	0.48
1:K:47:GLN:HG3	1:K:54:ARG:NH1	2.28	0.48
1:M:164:LEU:HD22	1:M:169:ASP:CG	2.33	0.48
1:M:212:LEU:HD22	1:O:26:ARG:HG2	1.95	0.48
1:O:325:ASP:O	1:O:329:LEU:HD23	2.12	0.48
1:U:560:LEU:O	1:U:561:ASP:O	2.32	0.48
1:X:164:LEU:HA	1:X:307:TRP:CH2	2.48	0.48
1:M:9:GLU:HG3	1:M:12:LEU:H	1.77	0.48
1:T:561:ASP:CB	1:W:89:ASP:HA	2.38	0.48
1:W:405:LEU:O	1:W:409:THR:HG23	2.13	0.48
1:C:11:ILE:O	1:C:15:PHE:HB2	2.13	0.48
1:I:567:MSE:HE2	1:J:554:LEU:HD22	1.94	0.48
1:B:198:ILE:HG22	1:B:198:ILE:O	2.12	0.48
1:F:376:ARG:HB2	1:G:352:TRP:CG	2.48	0.48
1:E:584:PRO:CG	1:E:593:LEU:HD12	2.42	0.48
1:U:586:THR:N	1:U:587:PRO:CD	2.76	0.48
1:V:293:ILE:HD13	1:V:294:ALA:N	2.27	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:386:THR:O	1:J:387:GLN:O	2.31	0.48
1:U:378:ASP:O	1:U:381:SER:O	2.31	0.48
1:N:95:MSE:HE1	1:N:99:ARG:CZ	2.44	0.48
1:R:387:GLN:CB	1:X:390:ALA:CB	2.91	0.48
1:N:429:GLN:HG2	1:N:429:GLN:O	2.13	0.48
1:S:398:PRO:HB3	1:U:395:PRO:HD2	1.95	0.48
1:U:322:LEU:N	1:U:322:LEU:HD22	2.29	0.48
2:Z:89:VAL:C	2:Z:91:ALA:H	2.15	0.48
1:D:198:ILE:O	1:D:198:ILE:HG22	2.12	0.48
1:F:255:ILE:O	1:F:257:ASP:N	2.45	0.48
1:A:119:ILE:HA	1:A:432:PHE:HE2	1.77	0.48
1:B:128:LEU:HD12	1:B:446:THR:HG23	1.94	0.48
1:B:11:ILE:O	1:B:15:PHE:HB2	2.13	0.48
1:D:72:ARG:HD2	1:F:434:THR:HG21	1.96	0.48
1:D:89:ASP:HA	1:E:561:ASP:CB	2.36	0.48
1:F:47:GLN:HG3	1:F:54:ARG:NH1	2.28	0.48
1:G:128:LEU:HD12	1:G:446:THR:HG23	1.94	0.48
1:F:72:ARG:HD2	1:G:434:THR:HG21	1.95	0.48
1:K:94:LEU:HA	1:K:97:MSE:CE	2.37	0.48
1:M:164:LEU:HA	1:M:307:TRP:CH2	2.48	0.48
1:O:443:ASP:C	1:O:446:THR:HG22	2.34	0.48
1:N:123:VAL:CG1	1:N:304:PHE:CE1	2.96	0.48
1:N:27:ARG:HH21	1:V:41:TRP:HE1	1.61	0.48
1:P:123:VAL:HG22	1:P:316:TYR:CE2	2.48	0.48
1:P:444:LEU:O	1:P:448:VAL:HG23	2.13	0.48
1:S:443:ASP:C	1:S:444:LEU:HD13	2.34	0.48
1:T:164:LEU:HD22	1:T:169:ASP:CG	2.33	0.48
1:U:48:TYR:CD2	1:U:48:TYR:O	5.17	0.48
1:V:37:ARG:HH21	1:V:37:ARG:CB	2.25	0.48
1:W:164:LEU:HA	1:W:307:TRP:HH2	1.79	0.48
1:W:248:LYS:HG3	1:W:511:ARG:HE	1.78	0.48
1:W:158:TRP:N	1:W:158:TRP:HD1	2.07	0.48
1:B:567:MSE:SE	1:C:576:LEU:HD13	2.63	0.48
1:H:248:LYS:CD	1:H:248:LYS:H	2.16	0.48
1:R:451:ASP:C	1:R:453:LEU:H	2.17	0.48
1:W:235:TYR:OH	1:W:252:LYS:NZ	2.45	0.48
1:N:266:ILE:HG23	1:N:267:ALA:N	2.29	0.48
1:U:266:ILE:HG23	1:U:267:ALA:N	2.28	0.48
1:S:266:ILE:HG23	1:S:267:ALA:N	2.28	0.48
1:H:563:LYS:HD3	1:I:557:PHE:CE2	2.48	0.48
1:M:563:LYS:HD3	1:O:557:PHE:CE2	2.48	0.48
1:L:208:VAL:HG12	1:L:210:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:208:VAL:HG12	1:I:210:PRO:HD3	1.95	0.48
1:D:208:VAL:HG12	1:D:210:PRO:HD3	1.96	0.48
1:J:208:VAL:HG12	1:J:210:PRO:HD3	1.96	0.48
1:A:584:PRO:HG2	1:A:593:LEU:HD12	1.94	0.48
1:F:584:PRO:CG	1:F:593:LEU:HD12	2.42	0.48
1:A:386:THR:O	1:A:387:GLN:O	2.31	0.48
1:T:293:ILE:HD13	1:T:294:ALA:N	2.29	0.48
3:Q:719:HOH:O	1:R:430:VAL:HG13	2.12	0.48
1:V:95:MSE:HE1	1:V:99:ARG:NH2	2.29	0.48
1:G:395:PRO:HD2	1:H:398:PRO:HB3	1.94	0.48
1:P:351:PHE:CD2	1:P:356:ILE:HD12	2.48	0.48
1:A:80:TYR:CE1	1:A:444:LEU:HB3	2.47	0.48
1:D:15:PHE:CE2	1:D:19:TRP:NE1	2.81	0.48
1:D:34:PHE:O	1:D:34:PHE:CG	2.66	0.48
1:D:334:MSE:SE	1:D:405:LEU:HD11	2.64	0.48
1:D:80:TYR:CE1	1:D:444:LEU:HB3	2.48	0.48
1:E:119:ILE:HA	1:E:432:PHE:HE2	1.77	0.48
1:F:142:GLN:O	1:F:143:VAL:HG23	2.13	0.48
1:H:15:PHE:CE2	1:H:19:TRP:NE1	2.81	0.48
1:J:119:ILE:HA	1:J:432:PHE:HE2	1.77	0.48
1:J:136:SER:N	1:J:137:PRO:HD3	2.27	0.48
2:Z:28:VAL:HG11	2:Z:96:LEU:C	2.33	0.48
1:L:142:GLN:O	1:L:143:VAL:HG23	2.13	0.48
1:P:47:GLN:H	1:P:48:TYR:HD2	1.61	0.48
1:S:41:TRP:HE1	1:T:27:ARG:HH21	1.62	0.48
1:U:434:THR:HG23	1:U:435:VAL:N	2.28	0.48
1:V:66:LYS:HZ3	1:V:420:VAL:HG21	1.77	0.48
1:B:226:VAL:O	1:B:274:ARG:HA	2.13	0.48
1:F:198:ILE:O	1:F:198:ILE:HG22	2.12	0.48
1:I:198:ILE:HG22	1:I:198:ILE:O	2.12	0.48
1:C:280:ILE:HG22	1:C:287:LEU:HD13	1.94	0.48
1:K:584:PRO:HG2	1:K:593:LEU:HD12	1.94	0.48
1:T:418:LEU:HB2	1:T:428:GLY:O	2.13	0.48
1:U:407:ALA:HB1	1:X:334:MSE:HE1	1.96	0.48
1:M:586:THR:N	1:M:587:PRO:CD	2.76	0.48
1:O:293:ILE:HD13	1:O:294:ALA:N	2.28	0.48
1:T:379:GLU:O	1:T:380:ASN:CB	2.60	0.48
1:Q:95:MSE:HE1	1:Q:99:ARG:CZ	2.43	0.48
1:K:191:TYR:HE1	1:K:278:LYS:HZ3	1.60	0.48
1:R:387:GLN:CB	1:X:390:ALA:HB2	2.44	0.48
1:O:322:LEU:N	1:O:322:LEU:HD22	2.28	0.48
1:B:47:GLN:HG3	1:B:54:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:44:TRP:CE2	1:D:54:ARG:HB3	2.48	0.48
1:D:434:THR:HG21	1:E:72:ARG:HD2	1.96	0.48
1:G:334:MSE:SE	1:G:405:LEU:HD11	2.64	0.48
1:I:128:LEU:HD12	1:I:446:THR:HG23	1.94	0.48
1:K:15:PHE:CE2	1:K:19:TRP:NE1	2.81	0.48
1:M:37:ARG:C	1:M:39:SER:N	2.67	0.48
1:O:37:ARG:CB	1:O:37:ARG:HH21	2.24	0.48
1:P:48:TYR:O	1:P:48:TYR:HD2	5.14	0.48
1:O:561:ASP:HB2	1:P:89:ASP:HA	1.95	0.48
1:Q:164:LEU:HA	1:Q:307:TRP:HH2	1.79	0.48
1:Q:35:PHE:HE1	1:Q:321:ARG:NH1	2.08	0.48
1:Q:37:ARG:C	1:Q:39:SER:H	2.16	0.48
1:S:325:ASP:O	1:S:329:LEU:HD23	2.13	0.48
1:S:444:LEU:O	1:S:446:THR:N	2.46	0.48
1:U:444:LEU:O	1:U:446:THR:N	2.46	0.48
1:V:164:LEU:HA	1:V:307:TRP:CH2	2.49	0.48
1:W:78:VAL:CG1	1:W:79:LEU:H	2.26	0.48
1:X:37:ARG:C	1:X:39:SER:N	2.66	0.48
1:M:248:LYS:HG3	1:M:511:ARG:HE	1.79	0.48
1:O:413:LYS:HA	1:O:416:ALA:HB3	1.95	0.48
1:J:226:VAL:O	1:J:274:ARG:HA	2.13	0.48
1:T:266:ILE:HG23	1:T:267:ALA:N	2.29	0.48
1:D:577:ILE:HG12	1:D:582:LYS:CG	2.41	0.48
1:S:418:LEU:HB2	1:S:428:GLY:O	2.13	0.48
1:J:376:ARG:HB2	1:K:352:TRP:CG	2.48	0.48
1:F:208:VAL:HG12	1:F:210:PRO:HD3	1.95	0.48
1:B:208:VAL:HG12	1:B:210:PRO:HD3	1.95	0.48
1:X:9:GLU:HG3	1:X:12:LEU:H	1.79	0.48
1:J:386:THR:O	1:J:387:GLN:C	2.52	0.48
1:G:386:THR:O	1:G:387:GLN:O	2.31	0.48
1:C:386:THR:CG2	1:C:389:LEU:HD21	2.44	0.48
1:X:379:GLU:O	1:X:380:ASN:CB	2.61	0.48
1:Q:293:ILE:HD13	1:Q:294:ALA:N	2.29	0.48
1:U:95:MSE:HE1	1:U:99:ARG:NH2	2.28	0.48
1:Q:386:THR:O	1:Q:387:GLN:C	2.52	0.48
1:B:343:ARG:NH1	2:Z:135:ALA:O	2.41	0.48
1:B:578:GLN:HG2	1:B:596:ALA:HB2	1.94	0.48
1:A:57:PHE:CD2	1:A:330:ARG:CB	2.95	0.48
1:A:94:LEU:HA	1:A:97:MSE:CE	2.37	0.48
1:B:15:PHE:CE2	1:B:19:TRP:NE1	2.81	0.48
1:E:142:GLN:O	1:E:143:VAL:HG23	2.13	0.48
1:F:334:MSE:SE	1:F:405:LEU:HD11	2.64	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:34:PHE:O	1:H:34:PHE:CG	2.66	0.48
1:K:34:PHE:CG	1:K:34:PHE:O	2.66	0.48
1:L:34:PHE:O	1:L:34:PHE:CG	2.66	0.48
1:P:560:LEU:O	1:P:561:ASP:O	2.32	0.48
1:Q:164:LEU:HA	1:Q:307:TRP:CH2	2.49	0.48
1:Q:82:PRO:O	1:Q:516:CYS:HA	2.13	0.48
1:U:164:LEU:HA	1:U:307:TRP:HH2	1.79	0.48
1:U:48:TYR:O	1:U:48:TYR:HD2	5.14	0.48
1:X:164:LEU:HA	1:X:307:TRP:HH2	1.78	0.48
1:E:139:SER:CB	1:E:455:THR:CG2	2.80	0.48
1:P:71:MSE:CE	1:P:115:VAL:HB	2.44	0.48
1:V:118:GLN:OE1	1:V:303:VAL:HB	2.13	0.48
1:V:413:LYS:HA	1:V:416:ALA:HB3	1.95	0.48
2:Y:23:LEU:HD23	2:Y:26:LEU:HD11	1.94	0.48
1:R:273:ARG:HH22	1:R:453:LEU:CD2	2.27	0.48
1:N:273:ARG:CZ	1:N:275:ARG:HE	2.27	0.48
1:F:227:GLU:HA	1:F:274:ARG:CA	2.44	0.48
1:F:226:VAL:O	1:F:274:ARG:HA	2.13	0.48
1:O:573:ASN:O	1:O:577:ILE:HG13	2.13	0.48
1:H:208:VAL:HG12	1:H:210:PRO:HD3	1.96	0.48
1:F:584:PRO:HG2	1:F:593:LEU:HD12	1.94	0.48
1:K:386:THR:O	1:K:387:GLN:C	2.52	0.48
1:B:386:THR:O	1:B:387:GLN:C	2.52	0.48
1:W:379:GLU:O	1:W:380:ASN:CB	2.61	0.48
1:X:598:GLN:HB2	1:X:601:GLN:HB3	1.95	0.48
1:M:58:ASP:HA	1:M:327:GLN:NE2	2.28	0.48
1:W:418:LEU:HB2	1:W:428:GLY:O	2.13	0.48
1:M:386:THR:O	1:M:387:GLN:C	2.51	0.48
1:E:578:GLN:HG2	1:E:596:ALA:HB2	1.94	0.48
1:C:255:ILE:O	1:C:257:ASP:N	2.45	0.48
1:G:578:GLN:HG2	1:G:596:ALA:HB2	1.94	0.48
1:N:322:LEU:HD22	1:N:322:LEU:H	1.78	0.48
1:Q:351:PHE:CD2	1:Q:356:ILE:HD12	2.49	0.48
1:A:11:ILE:O	1:A:15:PHE:HB2	2.13	0.48
1:C:142:GLN:O	1:C:143:VAL:HG23	2.13	0.48
1:D:11:ILE:O	1:D:15:PHE:HB2	2.13	0.48
1:H:11:ILE:O	1:H:15:PHE:HB2	2.13	0.48
1:H:142:GLN:O	1:H:143:VAL:HG23	2.13	0.48
1:H:334:MSE:SE	1:H:405:LEU:HD11	2.64	0.48
1:I:142:GLN:O	1:I:143:VAL:HG23	2.13	0.48
1:J:15:PHE:CE2	1:J:19:TRP:NE1	2.81	0.48
1:J:334:MSE:SE	1:J:405:LEU:HD11	2.64	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:42:ASP:OD2	2:Z:145:SER:O	2.31	0.48
1:N:443:ASP:C	1:N:444:LEU:HD13	2.34	0.48
1:N:48:TYR:CD2	1:N:48:TYR:O	5.16	0.48
1:Q:48:TYR:HD2	1:Q:48:TYR:O	5.14	0.48
1:R:164:LEU:HA	1:R:307:TRP:CH2	2.48	0.48
1:T:434:THR:HG23	1:T:435:VAL:N	2.28	0.48
1:U:456:ALA:O	1:U:457:MSE:HB2	2.12	0.48
1:X:165:MSE:HE1	1:X:435:VAL:HB	1.95	0.48
1:O:248:LYS:HG3	1:O:511:ARG:HE	1.79	0.48
1:N:158:TRP:HD1	1:N:158:TRP:H	1.62	0.48
1:K:248:LYS:CD	1:K:248:LYS:H	2.16	0.48
1:W:235:TYR:HA	1:W:265:LYS:HB3	1.96	0.48
1:W:266:ILE:HG23	1:W:267:ALA:N	2.28	0.48
1:O:266:ILE:HG23	1:O:267:ALA:N	2.27	0.48
1:R:235:TYR:OH	1:R:252:LYS:NZ	2.46	0.48
1:S:235:TYR:OH	1:S:252:LYS:NZ	2.47	0.48
1:A:577:ILE:HG12	1:A:582:LYS:CG	2.41	0.48
1:H:577:ILE:HG12	1:H:582:LYS:CG	2.41	0.48
1:S:384:LEU:HD22	1:S:384:LEU:N	2.28	0.48
1:E:208:VAL:HG12	1:E:210:PRO:HD3	1.96	0.48
1:C:208:VAL:HG12	1:C:210:PRO:HD3	1.95	0.48
1:K:386:THR:CG2	1:K:389:LEU:HD21	2.44	0.48
1:W:386:THR:O	1:W:387:GLN:C	2.52	0.48
1:P:386:THR:O	1:P:387:GLN:C	2.51	0.48
1:T:387:GLN:HB3	1:W:390:ALA:CB	2.44	0.48
1:N:322:LEU:N	1:N:322:LEU:HD22	2.29	0.48
1:S:322:LEU:HD22	1:S:322:LEU:N	2.28	0.48
1:R:322:LEU:N	1:R:322:LEU:HD22	2.29	0.48
1:U:310:VAL:HG22	1:X:40:GLN:HG2	1.96	0.48
1:R:371:TYR:HE2	1:R:373:LEU:HD21	1.79	0.48
1:A:165:MSE:HG3	1:A:307:TRP:CD2	2.49	0.48
1:A:47:GLN:HG3	1:A:54:ARG:NH1	2.28	0.48
1:C:165:MSE:HG3	1:C:307:TRP:CD2	2.49	0.48
1:F:11:ILE:O	1:F:15:PHE:HB2	2.13	0.48
1:G:11:ILE:O	1:G:15:PHE:HB2	2.13	0.48
1:G:44:TRP:CE2	1:G:54:ARG:HB3	2.48	0.48
1:H:165:MSE:HG3	1:H:307:TRP:CD2	2.49	0.48
1:H:34:PHE:HZ	1:H:328:ARG:HH22	0.80	0.48
1:I:11:ILE:O	1:I:15:PHE:HB2	2.13	0.48
1:I:34:PHE:CE1	1:I:324:LYS:NZ	2.72	0.48
1:P:35:PHE:HE1	1:P:321:ARG:NH1	2.08	0.48
1:Q:37:ARG:C	1:Q:39:SER:N	2.66	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:27:ARG:HB2	1:S:313:LYS:HE3	1.95	0.48
1:S:560:LEU:O	1:S:561:ASP:O	2.31	0.48
1:U:164:LEU:HA	1:U:307:TRP:CH2	2.49	0.48
1:U:329:LEU:HD21	1:X:53:TYR:OH	2.13	0.48
1:V:27:ARG:HB2	1:V:313:LYS:HE3	1.96	0.48
1:V:443:ASP:C	1:V:446:THR:HG22	2.34	0.48
1:V:48:TYR:O	1:V:48:TYR:CD2	5.17	0.48
1:N:89:ASP:CA	1:V:561:ASP:HB2	2.31	0.48
1:W:123:VAL:HG22	1:W:316:TYR:HE2	1.79	0.48
1:G:14:ARG:NE	1:G:14:ARG:CA	2.67	0.48
1:N:9:GLU:HG3	1:N:12:LEU:H	1.77	0.48
1:V:248:LYS:CD	1:V:248:LYS:H	2.18	0.48
1:N:248:LYS:HG3	1:N:511:ARG:HE	1.79	0.48
1:E:227:GLU:HA	1:E:274:ARG:CA	2.44	0.48
1:E:226:VAL:O	1:E:274:ARG:HA	2.13	0.48
1:K:334:MSE:HE3	1:L:404:MSE:CE	2.44	0.48
1:A:376:ARG:HB2	1:B:352:TRP:CG	2.49	0.48
1:V:384:LEU:HD22	1:V:384:LEU:N	2.27	0.48
1:J:386:THR:CG2	1:J:389:LEU:HD21	2.44	0.48
1:D:386:THR:CG2	1:D:389:LEU:HD21	2.44	0.48
1:A:386:THR:CG2	1:A:389:LEU:HD21	2.44	0.48
1:C:386:THR:O	1:C:387:GLN:C	2.52	0.48
1:N:598:GLN:HB2	1:N:601:GLN:HB3	1.96	0.48
1:C:372:TYR:CE2	1:E:348:LYS:HB2	2.49	0.48
1:Q:395:PRO:HD2	1:R:398:PRO:HB3	1.95	0.48
1:K:578:GLN:HG2	1:K:596:ALA:HB2	1.94	0.48
1:B:165:MSE:HG3	1:B:307:TRP:CD2	2.49	0.48
1:E:334:MSE:SE	1:E:405:LEU:HD11	2.64	0.48
1:D:182:ASN:HD22	1:F:171:ARG:HH21	1.62	0.48
1:F:165:MSE:HG3	1:F:307:TRP:CD2	2.49	0.48
1:J:165:MSE:HG3	1:J:307:TRP:CD2	2.49	0.48
1:K:11:ILE:O	1:K:15:PHE:HB2	2.13	0.48
1:K:165:MSE:HG3	1:K:307:TRP:CD2	2.49	0.48
1:M:47:GLN:H	1:M:48:TYR:HD2	1.62	0.48
1:O:123:VAL:HG22	1:O:316:TYR:CE2	2.49	0.48
1:N:123:VAL:HG22	1:N:316:TYR:CE2	2.49	0.48
1:P:78:VAL:CG1	1:P:79:LEU:H	2.27	0.48
1:Q:443:ASP:C	1:Q:444:LEU:HD13	2.34	0.48
1:S:164:LEU:HD22	1:S:169:ASP:CG	2.34	0.48
1:S:47:GLN:CG	1:S:48:TYR:H	2.27	0.48
1:S:95:MSE:HE1	1:S:99:ARG:NH2	2.29	0.48
1:T:33:LEU:HD12	1:T:34:PHE:N	2.29	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:31:ASN:O	1:W:34:PHE:HB3	2.14	0.48
1:X:78:VAL:CG1	1:X:79:LEU:N	2.77	0.48
1:P:9:GLU:HG3	1:P:12:LEU:H	1.77	0.48
1:T:14:ARG:NE	1:T:14:ARG:CA	2.70	0.48
1:X:248:LYS:HG3	1:X:511:ARG:HE	1.77	0.48
1:S:248:LYS:CD	1:S:248:LYS:H	2.17	0.48
1:S:158:TRP:HD1	1:S:158:TRP:N	2.07	0.48
1:L:227:GLU:HA	1:L:274:ARG:CA	2.44	0.48
1:K:577:ILE:HG12	1:K:582:LYS:CG	2.41	0.48
1:B:334:MSE:SE	1:C:404:MSE:HE1	2.64	0.48
1:T:384:LEU:HD22	1:T:384:LEU:N	2.28	0.48
1:S:293:ILE:HD13	1:S:294:ALA:N	2.28	0.48
1:L:386:THR:CG2	1:L:389:LEU:HD21	2.44	0.48
1:F:386:THR:CG2	1:F:389:LEU:HD21	2.44	0.48
1:B:386:THR:CG2	1:B:389:LEU:HD21	2.44	0.48
1:C:386:THR:O	1:C:387:GLN:O	2.31	0.48
1:T:95:MSE:HE1	1:T:99:ARG:CZ	2.44	0.48
1:O:155:HIS:CE1	1:O:204:PRO:HB2	2.49	0.48
1:U:386:THR:O	1:U:387:GLN:C	2.52	0.48
1:X:127:ARG:HG2	1:X:147:GLU:HB2	1.96	0.48
1:A:334:MSE:SE	1:A:405:LEU:HD11	2.64	0.48
1:C:119:ILE:HA	1:C:432:PHE:HE2	1.77	0.48
1:D:128:LEU:HD12	1:D:446:THR:HG23	1.94	0.48
1:D:40:GLN:O	1:D:41:TRP:CB	2.54	0.48
1:F:128:LEU:HD12	1:F:446:THR:HG23	1.94	0.48
1:F:15:PHE:CE2	1:F:19:TRP:NE1	2.81	0.48
1:J:561:ASP:CB	1:K:89:ASP:HA	2.33	0.48
1:L:136:SER:N	1:L:137:PRO:HD3	2.27	0.48
1:L:101:ASP:HB2	1:L:144:ILE:O	2.14	0.48
1:L:164:LEU:HA	1:L:307:TRP:HH2	1.79	0.48
1:M:329:LEU:HD21	1:N:53:TYR:OH	2.13	0.48
1:N:47:GLN:CG	1:N:48:TYR:H	2.27	0.48
1:P:444:LEU:O	1:P:446:THR:N	2.46	0.48
1:P:82:PRO:O	1:P:516:CYS:HA	2.13	0.48
1:R:37:ARG:C	1:R:39:SER:N	2.66	0.48
1:T:38:VAL:HG21	1:T:324:LYS:HD2	1.96	0.48
1:T:165:MSE:HE1	1:T:435:VAL:HB	1.95	0.48
1:U:444:LEU:O	1:U:448:VAL:HG23	2.14	0.48
1:V:48:TYR:O	1:V:48:TYR:HD2	5.14	0.48
1:W:164:LEU:HA	1:W:307:TRP:CH2	2.49	0.48
1:X:444:LEU:O	1:X:446:THR:N	2.47	0.48
1:W:451:ASP:C	1:W:453:LEU:H	2.18	0.48

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:227:GLU:HA	1:K:274:ARG:CA	2.44	0.48
1:K:248:LYS:HZ1	1:K:513:ARG:HH12	1.60	0.48
1:D:227:GLU:HA	1:D:274:ARG:CA	2.44	0.48
1:A:234:ILE:HG12	1:A:267:ALA:HB3	1.96	0.48
1:C:227:GLU:HA	1:C:274:ARG:CA	2.44	0.48
1:R:266:ILE:HG23	1:R:267:ALA:N	2.28	0.48
1:M:235:TYR:HA	1:M:265:LYS:HB3	1.94	0.48
1:L:334:MSE:SE	1:L:405:LEU:HD11	2.64	0.48
1:P:238:PRO:HD3	1:P:263:PHE:HB2	1.95	0.48
1:L:386:THR:O	1:L:387:GLN:C	2.52	0.48
1:H:386:THR:CG2	1:H:389:LEU:HD21	2.44	0.48
1:X:386:THR:O	1:X:387:GLN:C	2.52	0.48
1:Q:322:LEU:N	1:Q:322:LEU:HD22	2.29	0.48
1:D:539:LEU:HD21	1:D:551:LEU:HB3	1.96	0.48
1:R:55:GLY:HA3	1:R:57:PHE:CE1	2.48	0.48
1:A:434:THR:HA	1:A:437:GLN:CD	2.35	0.47
1:G:165:MSE:HG3	1:G:307:TRP:CD2	2.49	0.47
1:G:26:ARG:NH2	1:G:30:LYS:HB2	2.28	0.47
1:G:58:ASP:O	1:G:59:VAL:HB	2.14	0.47
1:I:165:MSE:HG3	1:I:307:TRP:CD2	2.49	0.47
1:I:334:MSE:SE	1:I:405:LEU:HD11	2.64	0.47
1:J:142:GLN:O	1:J:143:VAL:HG23	2.13	0.47
1:J:101:ASP:HB2	1:J:144:ILE:O	2.14	0.47
1:M:66:LYS:HZ3	1:M:420:VAL:HG11	1.79	0.47
1:O:14:ARG:NE	1:O:14:ARG:CA	2.71	0.47
1:O:434:THR:HG23	1:O:435:VAL:N	2.28	0.47
1:Q:165:MSE:HG3	1:Q:307:TRP:CD2	2.48	0.47
1:R:9:GLU:HG3	1:R:12:LEU:H	1.78	0.47
1:S:123:VAL:CG1	1:S:304:PHE:CE1	2.97	0.47
1:K:58:ASP:O	1:K:59:VAL:HB	2.14	0.47
1:P:71:MSE:HE3	1:P:115:VAL:HB	1.95	0.47
1:T:248:LYS:HG3	1:T:511:ARG:HE	1.79	0.47
2:Z:75:PRO:HA	2:Z:76:PRO:HD3	1.42	0.47
1:V:330:ARG:HD2	1:V:409:THR:CG2	2.38	0.47
1:B:234:ILE:HG12	1:B:267:ALA:HB3	1.96	0.47
1:D:226:VAL:O	1:D:274:ARG:HA	2.13	0.47
1:H:226:VAL:O	1:H:274:ARG:HA	2.13	0.47
1:A:226:VAL:O	1:A:274:ARG:HA	2.13	0.47
1:F:230:GLU:HG2	1:F:273:ARG:HB2	1.96	0.47
1:L:230:GLU:HG2	1:L:273:ARG:HB2	1.96	0.47
1:B:577:ILE:HG12	1:B:582:LYS:CG	2.41	0.47
1:K:334:MSE:SE	1:K:405:LEU:HD11	2.64	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:208:VAL:HG12	1:K:210:PRO:HD3	1.96	0.47
1:X:86:ALA:CB	1:X:515:GLU:HG3	2.44	0.47
1:Q:387:GLN:HB2	1:R:390:ALA:HB2	1.94	0.47
1:Q:387:GLN:HB3	1:R:390:ALA:CB	2.44	0.47
1:J:539:LEU:HD21	1:J:551:LEU:CB	2.44	0.47
1:L:86:ALA:HB2	1:L:515:GLU:HG3	1.96	0.47
1:S:127:ARG:HG2	1:S:147:GLU:HB2	1.96	0.47
1:L:456:ALA:HB1	1:L:509:ASP:OD2	2.13	0.47
1:L:539:LEU:HD21	1:L:551:LEU:HB3	1.96	0.47
1:H:101:ASP:HB2	1:H:144:ILE:O	2.14	0.47
1:K:101:ASP:HB2	1:K:144:ILE:O	2.14	0.47
1:L:11:ILE:O	1:L:15:PHE:HB2	2.13	0.47
1:M:434:THR:HG23	1:M:435:VAL:N	2.29	0.47
1:O:123:VAL:CG1	1:O:304:PHE:CE1	2.97	0.47
1:P:434:THR:HG23	1:P:435:VAL:N	2.29	0.47
1:S:35:PHE:HZ	1:S:321:ARG:NE	2.11	0.47
1:U:127:ARG:HG2	1:U:147:GLU:HB2	1.96	0.47
1:U:31:ASN:O	1:U:34:PHE:HB3	2.14	0.47
1:X:443:ASP:C	1:X:444:LEU:HD13	2.35	0.47
1:X:444:LEU:O	1:X:448:VAL:HG23	2.13	0.47
1:O:451:ASP:C	1:O:453:LEU:H	2.17	0.47
1:D:230:GLU:HG2	1:D:273:ARG:HB2	1.96	0.47
1:I:227:GLU:HA	1:I:274:ARG:CA	2.44	0.47
1:E:535:ILE:CD1	1:E:554:LEU:HG	2.44	0.47
1:W:27:ARG:HB2	1:W:313:LYS:HE3	1.96	0.47
1:N:573:ASN:O	1:N:577:ILE:HG13	2.14	0.47
1:T:193:LEU:HD22	1:T:287:LEU:HB3	1.96	0.47
1:I:113:ILE:HD12	1:I:148:PRO:HB3	1.94	0.47
1:U:598:GLN:HB2	1:U:601:GLN:HB3	1.95	0.47
1:W:95:MSE:HE1	1:W:99:ARG:NH2	2.29	0.47
1:C:81:ARG:HB2	1:C:517:TYR:CZ	2.50	0.47
1:K:539:LEU:HD21	1:K:551:LEU:HB3	1.96	0.47
1:I:86:ALA:HB2	1:I:515:GLU:HG3	1.96	0.47
1:B:86:ALA:HB2	1:B:515:GLU:HG3	1.96	0.47
1:A:334:MSE:SE	1:B:404:MSE:HE1	2.64	0.47
1:D:142:GLN:O	1:D:143:VAL:HG23	2.13	0.47
1:H:40:GLN:O	1:H:41:TRP:CB	2.55	0.47
1:I:101:ASP:HB2	1:I:144:ILE:O	2.14	0.47
1:M:27:ARG:HB2	1:M:313:LYS:HE3	1.94	0.47
1:N:78:VAL:CG1	1:N:444:LEU:HG	2.44	0.47
1:Q:35:PHE:HZ	1:Q:321:ARG:NE	2.10	0.47
1:S:95:MSE:HE1	1:S:99:ARG:CZ	2.45	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:325:ASP:O	1:T:329:LEU:HD23	2.14	0.47
1:T:409:THR:O	1:T:413:LYS:HG2	2.15	0.47
1:X:47:GLN:H	1:X:48:TYR:HD2	1.61	0.47
1:K:273:ARG:HH22	1:K:453:LEU:CD1	2.28	0.47
1:B:273:ARG:HH22	1:B:453:LEU:CD1	2.28	0.47
1:S:564:GLY:HA3	1:T:535:ILE:HD11	1.96	0.47
1:A:198:ILE:HA	1:A:199:PRO:HD3	1.64	0.47
1:G:567:MSE:HE2	1:H:554:LEU:HD22	1.96	0.47
1:X:27:ARG:HB2	1:X:313:LYS:HE3	1.95	0.47
1:I:535:ILE:CD1	1:I:554:LEU:HG	2.44	0.47
1:A:535:ILE:CD1	1:A:554:LEU:HG	2.44	0.47
1:X:238:PRO:HD3	1:X:263:PHE:HB2	1.96	0.47
1:N:293:ILE:HD13	1:N:294:ALA:N	2.29	0.47
1:E:386:THR:CG2	1:E:389:LEU:HD21	2.44	0.47
1:U:430:VAL:HG11	3:X:719:HOH:O	2.13	0.47
1:R:378:ASP:O	1:R:381:SER:O	2.33	0.47
1:R:386:THR:O	1:R:387:GLN:C	2.51	0.47
1:K:539:LEU:HD21	1:K:551:LEU:CB	2.44	0.47
1:E:162:SER:HB2	1:E:170:ALA:HB2	1.97	0.47
1:E:86:ALA:HB2	1:E:515:GLU:HG3	1.96	0.47
1:O:227:GLU:O	1:O:227:GLU:CG	2.63	0.47
1:B:35:PHE:HE1	1:B:321:ARG:NH1	2.13	0.47
1:D:164:LEU:HA	1:D:307:TRP:HH2	1.79	0.47
1:E:34:PHE:O	1:E:34:PHE:CD2	2.68	0.47
1:F:434:THR:HA	1:F:437:GLN:CD	2.35	0.47
1:G:101:ASP:HB2	1:G:144:ILE:O	2.14	0.47
1:H:130:THR:HG22	1:H:144:ILE:HA	1.97	0.47
1:H:57:PHE:CD2	1:H:330:ARG:CB	2.95	0.47
1:I:115:VAL:O	1:I:119:ILE:HG13	2.15	0.47
1:J:164:LEU:HA	1:J:307:TRP:HH2	1.79	0.47
1:J:35:PHE:HE2	1:J:324:LYS:NZ	2.08	0.47
1:L:81:ARG:HB2	1:L:517:TYR:CZ	2.50	0.47
1:O:164:LEU:HA	1:O:307:TRP:CH2	2.50	0.47
1:O:37:ARG:C	1:O:39:SER:N	2.67	0.47
1:L:165:MSE:HG3	1:L:307:TRP:CD2	2.49	0.47
1:N:38:VAL:HG21	1:N:324:LYS:HD2	1.96	0.47
1:P:35:PHE:HZ	1:P:321:ARG:NE	2.11	0.47
1:Q:560:LEU:O	1:Q:561:ASP:O	2.33	0.47
1:V:33:LEU:HD12	1:V:34:PHE:N	2.30	0.47
1:X:123:VAL:CG1	1:X:304:PHE:CE1	2.97	0.47
1:H:58:ASP:O	1:H:59:VAL:HB	2.14	0.47
1:I:58:ASP:O	1:I:59:VAL:HB	2.14	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:158:TRP:HD1	1:Q:158:TRP:H	1.62	0.47
1:N:118:GLN:OE1	1:N:303:VAL:HB	2.14	0.47
1:U:413:LYS:HA	1:U:416:ALA:HB3	1.96	0.47
1:I:230:GLU:HG2	1:I:273:ARG:HB2	1.96	0.47
1:C:567:MSE:HE2	1:E:554:LEU:HD22	1.95	0.47
1:R:376:ARG:HB2	1:X:352:TRP:CG	2.49	0.47
1:R:563:LYS:HD3	1:X:557:PHE:CE2	2.49	0.47
1:R:418:LEU:HB2	1:R:428:GLY:O	2.14	0.47
1:K:535:ILE:CD1	1:K:554:LEU:HG	2.44	0.47
1:W:293:ILE:HD13	1:W:294:ALA:N	2.29	0.47
1:G:386:THR:O	1:G:387:GLN:C	2.52	0.47
1:I:386:THR:O	1:I:387:GLN:C	2.52	0.47
1:T:95:MSE:HE1	1:T:99:ARG:NH2	2.29	0.47
1:L:451:ASP:O	1:L:456:ALA:N	2.41	0.47
1:K:86:ALA:HB2	1:K:515:GLU:HG3	1.96	0.47
1:S:227:GLU:CG	1:S:227:GLU:O	2.62	0.47
1:O:568:MSE:HG3	1:P:551:LEU:CD2	2.44	0.47
1:E:539:LEU:HD21	1:E:551:LEU:CB	2.45	0.47
1:A:130:THR:HG22	1:A:144:ILE:HA	1.97	0.47
1:B:101:ASP:HB2	1:B:144:ILE:O	2.14	0.47
1:B:434:THR:HA	1:B:437:GLN:CD	2.35	0.47
1:C:101:ASP:HB2	1:C:144:ILE:O	2.14	0.47
1:G:29:ALA:O	1:G:33:LEU:HG	2.15	0.47
1:H:34:PHE:CD2	1:H:34:PHE:O	2.68	0.47
1:M:443:ASP:C	1:M:444:LEU:HD13	2.35	0.47
1:L:434:THR:HA	1:L:437:GLN:CD	2.35	0.47
1:N:444:LEU:O	1:N:446:THR:N	2.48	0.47
1:P:316:TYR:O	1:P:321:ARG:NH1	2.48	0.47
1:Q:34:PHE:O	1:Q:37:ARG:HB2	2.14	0.47
1:Q:78:VAL:CG1	1:Q:444:LEU:HG	2.44	0.47
1:R:434:THR:HG23	1:R:435:VAL:N	2.28	0.47
1:S:443:ASP:C	1:S:446:THR:HG22	2.34	0.47
1:W:325:ASP:O	1:W:329:LEU:HD23	2.13	0.47
1:U:451:ASP:C	1:U:453:LEU:H	2.18	0.47
1:N:235:TYR:HA	1:N:265:LYS:HB3	1.95	0.47
1:F:535:ILE:CD1	1:F:554:LEU:HG	2.44	0.47
1:M:238:PRO:HD3	1:M:263:PHE:HB2	1.97	0.47
1:A:208:VAL:HG12	1:A:210:PRO:HD3	1.96	0.47
1:L:535:ILE:CD1	1:L:554:LEU:HG	2.44	0.47
1:P:86:ALA:CB	1:P:515:GLU:HG3	2.44	0.47
1:N:386:THR:O	1:N:387:GLN:C	2.52	0.47
1:J:81:ARG:HB2	1:J:517:TYR:CZ	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:81:ARG:HB2	1:G:517:TYR:CZ	2.50	0.47
1:F:81:ARG:HB2	1:F:517:TYR:CZ	2.50	0.47
1:L:539:LEU:HD21	1:L:551:LEU:CB	2.45	0.47
1:H:539:LEU:HD21	1:H:551:LEU:CB	2.44	0.47
1:B:539:LEU:HD21	1:B:551:LEU:HB3	1.96	0.47
1:P:260:ASP:HA	1:P:264:ILE:HB	1.97	0.47
1:Q:260:ASP:HA	1:Q:264:ILE:HB	1.97	0.47
1:F:86:ALA:HB2	1:F:515:GLU:HG3	1.96	0.47
1:A:86:ALA:HB2	1:A:515:GLU:HG3	1.96	0.47
1:A:34:PHE:CD2	1:A:34:PHE:O	2.68	0.47
1:A:42:ASP:OD2	2:Y:145:SER:O	2.32	0.47
1:B:142:GLN:O	1:B:143:VAL:HG23	2.13	0.47
1:B:164:LEU:HA	1:B:307:TRP:HH2	1.80	0.47
1:C:334:MSE:SE	1:C:405:LEU:HD11	2.64	0.47
1:C:434:THR:HA	1:C:437:GLN:CD	2.35	0.47
1:D:58:ASP:O	1:D:59:VAL:HB	2.14	0.47
1:E:165:MSE:HG3	1:E:307:TRP:CD2	2.49	0.47
1:F:130:THR:HG22	1:F:144:ILE:HA	1.97	0.47
1:F:101:ASP:HB2	1:F:144:ILE:O	2.14	0.47
1:F:164:LEU:HA	1:F:307:TRP:HH2	1.80	0.47
1:F:29:ALA:O	1:F:33:LEU:HG	2.15	0.47
1:J:71:MSE:CE	1:J:115:VAL:HB	2.45	0.47
1:J:34:PHE:CD2	1:J:34:PHE:O	2.68	0.47
1:L:35:PHE:HE1	1:L:321:ARG:NH1	2.13	0.47
1:O:44:TRP:C	1:O:45:LEU:HD22	2.35	0.47
1:L:130:THR:HG22	1:L:144:ILE:HA	1.97	0.47
1:N:37:ARG:CB	1:N:37:ARG:HH21	2.28	0.47
1:N:444:LEU:O	1:N:447:TYR:N	2.47	0.47
1:N:444:LEU:O	1:N:448:VAL:HG23	2.14	0.47
1:P:212:LEU:HD22	1:Q:26:ARG:HG2	1.96	0.47
1:R:164:LEU:HD22	1:R:169:ASP:OD1	2.15	0.47
1:V:434:THR:HG23	1:V:435:VAL:N	2.29	0.47
1:U:14:ARG:CA	1:U:14:ARG:NE	2.70	0.47
1:S:248:LYS:HG3	1:S:511:ARG:HE	1.78	0.47
1:T:405:LEU:O	1:T:409:THR:HG23	2.14	0.47
1:O:330:ARG:HD2	1:O:409:THR:CG2	2.40	0.47
1:X:82:PRO:O	1:X:516:CYS:HA	2.14	0.47
1:P:413:LYS:HA	1:P:416:ALA:HB3	1.97	0.47
1:X:47:GLN:N	1:X:48:TYR:HD2	2.13	0.47
1:J:26:ARG:NH2	1:J:30:LYS:HB2	2.28	0.47
1:Q:451:ASP:C	1:Q:453:LEU:H	2.17	0.47
1:J:230:GLU:HG2	1:J:273:ARG:HB2	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:197:ASP:O	1:C:198:ILE:HB	2.15	0.47
1:L:197:ASP:O	1:L:198:ILE:HB	2.15	0.47
1:O:235:TYR:HA	1:O:265:LYS:HB3	1.95	0.47
1:P:235:TYR:OH	1:P:252:LYS:NZ	2.48	0.47
1:V:235:TYR:OH	1:V:252:LYS:NZ	2.47	0.47
1:F:563:LYS:HD3	1:G:557:PHE:CE2	2.49	0.47
1:B:334:MSE:SE	1:B:405:LEU:HD11	2.64	0.47
1:S:420:VAL:HA	1:S:428:GLY:HA2	1.96	0.47
1:W:238:PRO:HD3	1:W:263:PHE:HB2	1.96	0.47
1:T:454:ALA:O	1:T:455:THR:C	2.53	0.47
1:P:40:GLN:HG2	1:Q:310:VAL:HG22	1.95	0.47
1:D:386:THR:O	1:D:387:GLN:C	2.52	0.47
1:A:386:THR:O	1:A:387:GLN:C	2.52	0.47
1:H:386:THR:O	1:H:387:GLN:C	2.52	0.47
1:R:598:GLN:HB2	1:R:601:GLN:HB3	1.95	0.47
1:W:171:ARG:O	1:W:224:GLU:HA	2.15	0.47
1:O:260:ASP:HA	1:O:264:ILE:HB	1.97	0.47
1:V:260:ASP:HA	1:V:264:ILE:HB	1.96	0.47
1:R:556:TYR:OH	1:X:542:THR:HG21	2.13	0.47
1:M:371:TYR:HE2	1:M:373:LEU:HD21	1.79	0.47
1:G:539:LEU:HD21	1:G:551:LEU:CB	2.44	0.47
1:D:101:ASP:HB2	1:D:144:ILE:O	2.14	0.47
1:D:29:ALA:O	1:D:33:LEU:HG	2.15	0.47
1:D:57:PHE:CD2	1:D:330:ARG:CB	2.95	0.47
1:G:115:VAL:O	1:G:119:ILE:HG13	2.15	0.47
1:I:130:THR:HG22	1:I:144:ILE:HA	1.97	0.47
1:J:11:ILE:O	1:J:15:PHE:HB2	2.13	0.47
1:K:34:PHE:CD2	1:K:34:PHE:O	2.68	0.47
1:M:418:LEU:HB2	1:M:428:GLY:O	2.15	0.47
1:O:164:LEU:HA	1:O:307:TRP:HH2	1.80	0.47
1:O:31:ASN:O	1:O:34:PHE:HB3	2.14	0.47
1:O:47:GLN:H	1:O:48:TYR:HD2	1.63	0.47
1:C:115:VAL:O	1:C:119:ILE:HG13	2.15	0.47
1:C:57:PHE:CD2	1:C:330:ARG:CB	2.95	0.47
1:E:71:MSE:CE	1:E:115:VAL:HB	2.45	0.47
1:E:115:VAL:O	1:E:119:ILE:HG13	2.15	0.47
1:E:130:THR:HG22	1:E:144:ILE:HA	1.97	0.47
1:F:115:VAL:O	1:F:119:ILE:HG13	2.15	0.47
1:F:34:PHE:CD2	1:F:34:PHE:O	2.68	0.47
1:F:334:MSE:HE3	1:G:404:MSE:HE3	1.96	0.47
1:G:565:VAL:O	1:G:569:ARG:HB3	2.15	0.47
1:J:130:THR:HG22	1:J:144:ILE:HA	1.97	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:130:THR:HG22	1:K:144:ILE:HA	1.97	0.47
1:N:164:LEU:HA	1:N:307:TRP:CH2	2.50	0.47
1:N:27:ARG:HB2	1:N:313:LYS:HE3	1.96	0.47
1:Q:14:ARG:NE	1:Q:14:ARG:CA	2.71	0.47
1:Q:561:ASP:HB2	1:R:89:ASP:CA	2.35	0.47
1:V:29:ALA:O	1:V:33:LEU:HG	2.15	0.47
1:W:528:LYS:CD	1:W:560:LEU:HD21	2.45	0.47
1:N:47:GLN:H	1:N:48:TYR:HD2	1.62	0.47
1:P:136:SER:N	1:P:137:PRO:HD3	2.30	0.47
1:T:123:VAL:HG22	1:T:316:TYR:HE2	1.79	0.47
1:X:31:ASN:O	1:X:34:PHE:HB3	2.15	0.47
1:X:37:ARG:C	1:X:39:SER:H	2.18	0.47
1:X:560:LEU:O	1:X:561:ASP:O	2.33	0.47
1:B:58:ASP:O	1:B:59:VAL:HB	2.14	0.47
1:R:248:LYS:HG3	1:R:511:ARG:HE	1.78	0.47
1:M:248:LYS:CD	1:M:248:LYS:H	2.17	0.47
1:O:158:TRP:HH2	1:O:302:PRO:HG3	1.80	0.47
1:M:451:ASP:C	1:M:453:LEU:H	2.17	0.47
1:W:47:GLN:CG	1:W:48:TYR:H	2.28	0.47
1:G:230:GLU:HG2	1:G:273:ARG:HB2	1.96	0.47
1:B:535:ILE:CD1	1:B:554:LEU:HG	2.44	0.47
1:J:535:ILE:CD1	1:J:554:LEU:HG	2.44	0.47
1:A:273:ARG:HH22	1:A:453:LEU:CD1	2.28	0.47
1:E:230:GLU:HG2	1:E:273:ARG:HB2	1.96	0.47
1:B:197:ASP:O	1:B:198:ILE:HB	2.15	0.47
1:P:554:LEU:O	1:P:557:PHE:HB3	2.14	0.47
1:V:454:ALA:O	1:V:455:THR:C	2.53	0.47
1:F:577:ILE:HG12	1:F:582:LYS:CG	2.41	0.47
1:U:573:ASN:O	1:U:577:ILE:HG13	2.13	0.47
1:Q:238:PRO:HD3	1:Q:263:PHE:HB2	1.95	0.47
1:G:208:VAL:HG12	1:G:210:PRO:HD3	1.95	0.47
1:R:238:PRO:HD3	1:R:263:PHE:HB2	1.97	0.47
1:U:66:LYS:HZ3	1:U:420:VAL:HG21	1.79	0.47
1:U:418:LEU:HB2	1:U:428:GLY:O	2.14	0.47
1:K:563:LYS:HD3	1:L:557:PHE:CE2	2.50	0.47
1:W:293:ILE:HG12	1:W:294:ALA:H	1.80	0.47
1:X:155:HIS:CE1	1:X:204:PRO:HB2	2.50	0.47
1:O:386:THR:O	1:O:387:GLN:C	2.52	0.47
1:A:81:ARG:HB2	1:A:517:TYR:CZ	2.50	0.47
1:D:81:ARG:HB2	1:D:517:TYR:CZ	2.50	0.47
1:B:451:ASP:O	1:B:456:ALA:N	2.41	0.47
1:S:322:LEU:H	1:S:322:LEU:HD22	1.79	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:539:LEU:HD21	1:E:551:LEU:HB3	1.96	0.47
1:D:162:SER:HB2	1:D:170:ALA:HB2	1.97	0.47
1:G:86:ALA:HB2	1:G:515:GLU:HG3	1.96	0.47
1:I:162:SER:HB2	1:I:170:ALA:HB2	1.96	0.47
1:X:260:ASP:HA	1:X:264:ILE:HB	1.96	0.47
1:G:162:SER:HB2	1:G:170:ALA:HB2	1.97	0.47
1:V:438:LEU:HD22	3:W:718:HOH:O	2.13	0.47
1:N:348:LYS:HB2	1:V:372:TYR:CE2	2.50	0.47
1:B:162:SER:HB2	1:B:170:ALA:HB2	1.97	0.47
1:A:142:GLN:O	1:A:143:VAL:HG23	2.13	0.47
1:B:130:THR:HG22	1:B:144:ILE:HA	1.97	0.47
1:C:92:ASP:OD2	1:C:92:ASP:N	2.48	0.47
1:D:26:ARG:NH2	1:D:30:LYS:HB2	2.28	0.47
1:H:29:ALA:O	1:H:33:LEU:HG	2.15	0.47
1:I:29:ALA:O	1:I:33:LEU:HG	2.15	0.47
1:I:34:PHE:CD2	1:I:34:PHE:O	2.68	0.47
1:J:565:VAL:O	1:J:569:ARG:HB3	2.15	0.47
1:M:343:ARG:O	1:M:344:THR:HB	2.15	0.47
1:M:47:GLN:CG	1:M:48:TYR:H	2.27	0.47
1:M:66:LYS:HZ3	1:M:420:VAL:HG21	1.78	0.47
1:Q:434:THR:HG23	1:Q:435:VAL:N	2.29	0.47
1:Q:47:GLN:H	1:Q:48:TYR:HD2	1.62	0.47
1:V:47:GLN:N	1:V:48:TYR:HD2	2.13	0.47
1:M:511:ARG:HA	1:M:513:ARG:CD	2.44	0.47
1:M:546:THR:CG2	1:M:547:PRO:HD3	2.31	0.47
1:T:413:LYS:HA	1:T:416:ALA:HB3	1.96	0.47
1:V:273:ARG:CZ	1:V:275:ARG:HE	2.28	0.47
1:C:535:ILE:CD1	1:C:554:LEU:HG	2.44	0.47
1:J:234:ILE:HG12	1:J:267:ALA:HB3	1.96	0.47
1:G:234:ILE:HG12	1:G:267:ALA:HB3	1.96	0.47
1:H:273:ARG:HH22	1:H:453:LEU:CD1	2.28	0.47
1:I:273:ARG:HH22	1:I:453:LEU:CD1	2.28	0.47
1:T:554:LEU:O	1:T:557:PHE:HB3	2.15	0.47
1:J:577:ILE:HG12	1:J:582:LYS:CG	2.41	0.47
1:L:207:TRP:O	1:L:208:VAL:C	2.53	0.47
1:C:207:TRP:O	1:C:208:VAL:C	2.54	0.47
1:I:386:THR:CG2	1:I:389:LEU:HD21	2.44	0.47
1:P:293:ILE:HD13	1:P:294:ALA:N	2.30	0.47
1:Q:598:GLN:HB2	1:Q:601:GLN:HB3	1.95	0.47
1:S:386:THR:O	1:S:387:GLN:C	2.52	0.47
1:E:81:ARG:HB2	1:E:517:TYR:CZ	2.50	0.47
1:H:81:ARG:HB2	1:H:517:TYR:CZ	2.50	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:197:ASP:O	1:E:198:ILE:HB	2.15	0.47
1:D:197:ASP:O	1:D:198:ILE:HB	2.15	0.47
1:V:245:SER:HG	1:V:247:PHE:HE1	1.62	0.47
1:T:191:TYR:HE1	1:T:278:LYS:HZ3	1.63	0.47
1:A:101:ASP:HB2	1:A:144:ILE:O	2.14	0.47
1:B:115:VAL:O	1:B:119:ILE:HG13	2.15	0.47
1:D:528:LYS:HZ3	1:D:560:LEU:HD21	1.78	0.47
1:H:164:LEU:HA	1:H:307:TRP:HH2	1.80	0.47
1:K:434:THR:HA	1:K:437:GLN:CD	2.35	0.47
1:L:34:PHE:CD2	1:L:34:PHE:O	2.68	0.47
1:M:38:VAL:HG21	1:M:324:LYS:HD2	1.97	0.47
1:O:9:GLU:HG3	1:O:12:LEU:H	1.78	0.47
1:P:37:ARG:C	1:P:39:SER:N	2.68	0.47
1:Q:444:LEU:O	1:Q:446:THR:N	2.47	0.47
1:S:444:LEU:O	1:S:448:VAL:HG23	2.15	0.47
1:S:528:LYS:CD	1:S:560:LEU:HD21	2.45	0.47
1:T:158:TRP:HH2	1:T:302:PRO:HG3	1.80	0.47
1:U:123:VAL:HG13	1:U:304:PHE:CE1	2.50	0.47
1:U:37:ARG:C	1:U:39:SER:N	2.68	0.47
1:U:78:VAL:CG1	1:U:444:LEU:HG	2.44	0.47
1:M:273:ARG:CZ	1:M:275:ARG:HE	2.27	0.47
1:O:160:SER:O	1:O:161:ASN:ND2	2.44	0.47
1:N:71:MSE:HE3	1:N:115:VAL:HB	1.97	0.47
1:B:248:LYS:HB3	1:B:511:ARG:NH1	2.30	0.47
1:U:273:ARG:CZ	1:U:275:ARG:HE	2.28	0.47
1:A:248:LYS:HZ1	1:A:513:ARG:HH12	1.62	0.47
1:C:230:GLU:HG2	1:C:273:ARG:HB2	1.96	0.47
1:S:554:LEU:O	1:S:557:PHE:HB3	2.14	0.47
1:L:227:GLU:OE2	1:L:227:GLU:N	2.47	0.47
1:H:535:ILE:CD1	1:H:554:LEU:HG	2.44	0.47
1:K:201:PHE:HE2	1:K:281:ILE:HG22	1.80	0.47
1:M:232:ALA:HB2	1:M:269:ARG:O	2.15	0.47
1:D:535:ILE:CD1	1:D:554:LEU:HG	2.44	0.47
1:J:207:TRP:O	1:J:208:VAL:C	2.53	0.47
3:P:719:HOH:O	1:Q:430:VAL:HG13	2.13	0.47
1:R:293:ILE:HG12	1:R:294:ALA:H	1.80	0.47
1:P:155:HIS:CE1	1:P:204:PRO:HB2	2.50	0.47
1:M:598:GLN:HB2	1:M:601:GLN:HB3	1.96	0.47
1:W:66:LYS:HZ3	1:W:420:VAL:HG21	1.80	0.47
1:G:197:ASP:O	1:G:198:ILE:HB	2.15	0.47
1:O:568:MSE:SE	1:P:550:GLN:HB3	2.65	0.47
1:G:539:LEU:HD21	1:G:551:LEU:HB3	1.96	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:171:ARG:O	1:R:224:GLU:HA	2.14	0.47
1:W:322:LEU:HD22	1:W:322:LEU:N	2.30	0.47
1:R:227:GLU:CG	1:R:227:GLU:O	2.63	0.47
1:U:76:ILE:HD12	1:U:433:ASP:OD1	2.15	0.47
1:F:539:LEU:HD21	1:F:551:LEU:CB	2.44	0.47
1:K:162:SER:HB2	1:K:170:ALA:HB2	1.97	0.47
1:C:35:PHE:HE1	1:C:321:ARG:NH1	2.13	0.47
1:D:130:THR:HG22	1:D:144:ILE:HA	1.97	0.47
1:D:165:MSE:HG3	1:D:307:TRP:CD2	2.49	0.47
1:E:434:THR:HA	1:E:437:GLN:CD	2.35	0.47
1:E:57:PHE:CD2	1:E:330:ARG:CB	2.95	0.47
1:F:92:ASP:N	1:F:92:ASP:OD2	2.48	0.47
1:G:434:THR:HA	1:G:437:GLN:CD	2.35	0.47
1:H:434:THR:HA	1:H:437:GLN:CD	2.35	0.47
1:I:164:LEU:HA	1:I:307:TRP:HH2	1.80	0.47
1:I:434:THR:HA	1:I:437:GLN:CD	2.35	0.47
1:J:28:GLU:HG3	1:J:32:ASP:OD2	2.15	0.47
1:J:29:ALA:O	1:J:33:LEU:HG	2.15	0.47
1:K:115:VAL:O	1:K:119:ILE:HG13	2.15	0.47
1:N:78:VAL:CG1	1:N:79:LEU:N	2.75	0.47
1:Q:444:LEU:N	1:Q:444:LEU:HD13	2.30	0.47
1:S:38:VAL:HG21	1:S:324:LYS:HD2	1.97	0.47
1:S:41:TRP:HE1	1:T:27:ARG:NH2	2.13	0.47
1:T:37:ARG:CB	1:T:37:ARG:HH21	2.28	0.47
1:W:343:ARG:O	1:W:344:THR:HB	2.15	0.47
1:E:58:ASP:O	1:E:59:VAL:HB	2.14	0.47
1:W:118:GLN:OE1	1:W:303:VAL:HB	2.14	0.47
1:R:560:LEU:O	1:R:561:ASP:O	2.32	0.47
1:V:409:THR:O	1:V:413:LYS:HG2	2.15	0.47
1:B:227:GLU:OE2	1:B:227:GLU:N	2.47	0.47
1:B:565:VAL:O	1:B:569:ARG:HB3	2.15	0.47
1:A:248:LYS:HB3	1:A:511:ARG:NH1	2.30	0.47
1:E:248:LYS:HB3	1:E:511:ARG:NH1	2.30	0.47
1:F:273:ARG:HH22	1:F:453:LEU:CD1	2.28	0.47
1:A:197:ASP:O	1:A:198:ILE:HB	2.15	0.47
1:H:201:PHE:HE2	1:H:281:ILE:HG22	1.80	0.47
1:U:235:TYR:OH	1:U:252:LYS:NZ	2.48	0.47
1:T:235:TYR:OH	1:T:252:LYS:NZ	2.48	0.47
1:T:266:ILE:O	1:T:267:ALA:HB2	2.16	0.47
1:W:193:LEU:HD22	1:W:287:LEU:HB3	1.97	0.47
1:U:557:PHE:CE2	1:X:563:LYS:HD3	2.49	0.47
1:S:577:ILE:HG12	1:S:582:LYS:CG	2.43	0.47

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:238:PRO:HD3	1:S:263:PHE:HB2	1.97	0.47
1:E:207:TRP:O	1:E:208:VAL:C	2.53	0.47
1:U:384:LEU:N	1:U:384:LEU:HD22	2.29	0.47
1:E:386:THR:O	1:E:387:GLN:C	2.52	0.47
1:F:386:THR:O	1:F:387:GLN:C	2.52	0.47
1:R:293:ILE:HD13	1:R:294:ALA:N	2.29	0.47
1:S:86:ALA:CB	1:S:515:GLU:HG3	2.45	0.47
1:D:542:THR:HG21	1:E:556:TYR:OH	2.15	0.47
1:B:81:ARG:HB2	1:B:517:TYR:CZ	2.50	0.47
1:C:451:ASP:O	1:C:456:ALA:N	2.41	0.47
1:F:539:LEU:HD21	1:F:551:LEU:HB3	1.96	0.47
1:M:55:GLY:HA3	1:M:57:PHE:CE1	2.49	0.47
1:C:539:LEU:HD21	1:C:551:LEU:HB3	1.96	0.47
1:Q:245:SER:HG	1:Q:247:PHE:HE1	1.62	0.47
1:X:227:GLU:O	1:X:227:GLU:CG	2.63	0.47
1:J:86:ALA:HB2	1:J:515:GLU:HG3	1.96	0.47
1:A:29:ALA:O	1:A:33:LEU:HG	2.15	0.46
1:B:94:LEU:HA	1:B:97:MSE:CE	2.37	0.46
1:D:71:MSE:CE	1:D:115:VAL:HB	2.45	0.46
1:D:115:VAL:O	1:D:119:ILE:HG13	2.15	0.46
1:D:92:ASP:OD2	1:D:92:ASP:N	2.48	0.46
1:H:92:ASP:N	1:H:92:ASP:OD2	2.48	0.46
1:I:565:VAL:O	1:I:569:ARG:HB3	2.15	0.46
1:J:58:ASP:O	1:J:59:VAL:HB	2.14	0.46
1:J:92:ASP:OD2	1:J:92:ASP:N	2.48	0.46
1:M:78:VAL:CG1	1:M:444:LEU:HG	2.45	0.46
1:L:444:LEU:C	1:L:446:THR:H	2.19	0.46
1:N:165:MSE:HG3	1:N:307:TRP:CD2	2.49	0.46
1:P:343:ARG:O	1:P:344:THR:HB	2.14	0.46
1:P:47:GLN:N	1:P:48:TYR:HD2	2.13	0.46
1:R:47:GLN:N	1:R:48:TYR:HD2	2.13	0.46
1:S:78:VAL:CG1	1:S:444:LEU:HG	2.45	0.46
1:U:80:TYR:OH	1:U:444:LEU:HD12	2.15	0.46
1:U:82:PRO:O	1:U:516:CYS:HA	2.15	0.46
1:W:123:VAL:CG1	1:W:304:PHE:CE1	2.98	0.46
1:U:405:LEU:O	1:U:409:THR:HG23	2.15	0.46
1:K:230:GLU:HG2	1:K:273:ARG:HB2	1.96	0.46
1:H:248:LYS:HB3	1:H:511:ARG:NH1	2.30	0.46
1:R:273:ARG:CZ	1:R:275:ARG:HE	2.28	0.46
1:F:197:ASP:O	1:F:198:ILE:HB	2.15	0.46
1:L:201:PHE:HE2	1:L:281:ILE:HG22	1.80	0.46
1:P:27:ARG:HB2	1:P:313:LYS:HE3	1.96	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:198:ILE:HG22	1:N:198:ILE:O	2.15	0.46
1:L:577:ILE:HG12	1:L:582:LYS:CG	2.41	0.46
1:M:198:ILE:HG22	1:M:198:ILE:O	2.14	0.46
1:B:376:ARG:HB2	1:C:352:TRP:CG	2.50	0.46
1:F:207:TRP:O	1:F:208:VAL:C	2.54	0.46
1:G:386:THR:CG2	1:G:389:LEU:HD21	2.44	0.46
1:U:95:MSE:HE1	1:U:99:ARG:CZ	2.44	0.46
1:O:598:GLN:HB2	1:O:601:GLN:HB3	1.95	0.46
1:U:86:ALA:CB	1:U:515:GLU:HG3	2.45	0.46
1:R:343:ARG:O	1:R:344:THR:HB	2.15	0.46
1:H:539:LEU:HD21	1:H:551:LEU:HB3	1.96	0.46
1:N:348:LYS:HE2	1:V:369:TYR:O	2.15	0.46
1:D:86:ALA:HB2	1:D:515:GLU:HG3	1.96	0.46
1:I:539:LEU:HD21	1:I:551:LEU:HB3	1.96	0.46
1:C:395:PRO:HD2	1:E:398:PRO:HB3	1.96	0.46
1:H:86:ALA:HB2	1:H:515:GLU:HG3	1.96	0.46
1:M:260:ASP:HA	1:M:264:ILE:HB	1.98	0.46
1:T:260:ASP:HA	1:T:264:ILE:HB	1.96	0.46
1:D:317:GLU:HB3	1:D:321:ARG:CZ	2.46	0.46
1:D:34:PHE:CD2	1:D:34:PHE:O	2.68	0.46
1:E:444:LEU:C	1:E:446:THR:H	2.19	0.46
1:E:565:VAL:O	1:E:569:ARG:HB3	2.15	0.46
1:G:164:LEU:HA	1:G:307:TRP:HH2	1.80	0.46
1:G:317:GLU:HB3	1:G:321:ARG:CZ	2.46	0.46
1:G:34:PHE:O	1:G:34:PHE:CD2	2.68	0.46
1:G:413:LYS:HB3	1:G:413:LYS:HE2	1.74	0.46
1:H:565:VAL:O	1:H:569:ARG:HB3	2.15	0.46
1:I:444:LEU:C	1:I:446:THR:H	2.19	0.46
1:J:317:GLU:HB3	1:J:321:ARG:CZ	2.46	0.46
1:K:434:THR:HA	1:K:437:GLN:HG2	1.97	0.46
1:M:560:LEU:O	1:M:561:ASP:O	2.33	0.46
1:N:37:ARG:C	1:N:39:SER:N	2.67	0.46
1:O:560:LEU:O	1:O:561:ASP:O	2.33	0.46
1:R:47:GLN:H	1:R:48:TYR:HD2	1.62	0.46
1:R:82:PRO:O	1:R:516:CYS:HA	2.15	0.46
1:S:37:ARG:C	1:S:39:SER:N	2.68	0.46
1:X:165:MSE:HG3	1:X:307:TRP:CD2	2.49	0.46
1:X:434:THR:HG23	1:X:435:VAL:N	2.30	0.46
1:U:71:MSE:HE3	1:U:115:VAL:HB	1.96	0.46
1:R:413:LYS:HA	1:R:416:ALA:HB3	1.96	0.46
1:T:47:GLN:CG	1:T:48:TYR:H	2.27	0.46
1:T:47:GLN:H	1:T:48:TYR:HD2	1.64	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:227:GLU:HA	1:J:274:ARG:CA	2.44	0.46
1:G:273:ARG:HH22	1:G:453:LEU:CD1	2.28	0.46
1:B:230:GLU:HG2	1:B:273:ARG:HB2	1.96	0.46
1:T:451:ASP:C	1:T:453:LEU:N	2.69	0.46
1:A:201:PHE:HE2	1:A:281:ILE:HG22	1.80	0.46
1:M:193:LEU:HD22	1:M:287:LEU:HB3	1.97	0.46
1:H:567:MSE:HE2	1:I:554:LEU:HD22	1.96	0.46
1:R:564:GLY:CA	1:X:554:LEU:HD21	2.42	0.46
1:R:420:VAL:HA	1:R:428:GLY:HA2	1.98	0.46
1:F:376:ARG:HB2	1:G:352:TRP:CD2	2.50	0.46
1:D:207:TRP:O	1:D:208:VAL:C	2.54	0.46
1:A:207:TRP:O	1:A:208:VAL:C	2.53	0.46
1:D:438:LEU:HD22	3:E:719:HOH:O	2.15	0.46
1:M:293:ILE:HD13	1:M:294:ALA:N	2.31	0.46
1:X:378:ASP:O	1:X:381:SER:O	2.33	0.46
1:J:343:ARG:H	1:J:343:ARG:HG2	1.52	0.46
1:P:598:GLN:HB2	1:P:601:GLN:HB3	1.95	0.46
1:I:343:ARG:H	1:I:343:ARG:HG2	1.52	0.46
1:O:322:LEU:H	1:O:322:LEU:HD22	1.79	0.46
1:D:539:LEU:HD21	1:D:551:LEU:CB	2.44	0.46
1:I:539:LEU:HD21	1:I:551:LEU:CB	2.44	0.46
1:A:539:LEU:HD21	1:A:551:LEU:CB	2.44	0.46
1:C:162:SER:HB2	1:C:170:ALA:HB2	1.97	0.46
1:U:542:THR:HG21	1:X:556:TYR:OH	2.14	0.46
1:O:395:PRO:HD2	1:P:398:PRO:HB3	1.96	0.46
1:M:127:ARG:HG2	1:M:147:GLU:HB2	1.96	0.46
1:N:171:ARG:O	1:N:224:GLU:HA	2.15	0.46
1:C:86:ALA:HB2	1:C:515:GLU:HG3	1.96	0.46
1:A:164:LEU:HA	1:A:307:TRP:HH2	1.80	0.46
1:C:28:GLU:HG3	1:C:32:ASP:OD2	2.15	0.46
1:C:29:ALA:O	1:C:33:LEU:HG	2.15	0.46
1:C:34:PHE:O	1:C:34:PHE:CD2	2.68	0.46
1:D:444:LEU:HD13	1:D:444:LEU:N	2.31	0.46
1:F:565:VAL:O	1:F:569:ARG:HB3	2.15	0.46
1:H:28:GLU:HG3	1:H:32:ASP:OD2	2.15	0.46
1:H:444:LEU:HD13	1:H:444:LEU:N	2.31	0.46
1:I:71:MSE:CE	1:I:115:VAL:HB	2.45	0.46
1:J:434:THR:HA	1:J:437:GLN:CD	2.35	0.46
1:K:28:GLU:HG3	1:K:32:ASP:OD2	2.15	0.46
1:K:29:ALA:O	1:K:33:LEU:HG	2.15	0.46
1:K:92:ASP:N	1:K:92:ASP:OD2	2.48	0.46
1:K:81:ARG:HB2	1:K:517:TYR:CZ	2.50	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:560:LEU:HD13	1:R:82:PRO:CD	2.22	0.46
1:T:164:LEU:HA	1:T:307:TRP:CH2	2.51	0.46
1:T:165:MSE:HG3	1:T:307:TRP:CD2	2.49	0.46
1:U:165:MSE:HG3	1:U:307:TRP:CD2	2.50	0.46
1:U:33:LEU:HD12	1:U:34:PHE:N	2.30	0.46
1:N:26:ARG:HG2	1:V:212:LEU:HD22	1.98	0.46
1:V:418:LEU:HB2	1:V:428:GLY:O	2.15	0.46
1:V:443:ASP:C	1:V:444:LEU:HD13	2.35	0.46
1:V:78:VAL:CG1	1:V:444:LEU:HG	2.45	0.46
1:X:41:TRP:HE3	1:X:42:ASP:HB3	1.81	0.46
1:B:139:SER:CB	1:B:455:THR:CG2	2.80	0.46
1:R:510:ILE:O	1:R:513:ARG:HD2	2.15	0.46
1:M:510:ILE:O	1:M:513:ARG:HD2	2.15	0.46
1:X:546:THR:CG2	1:X:547:PRO:HD3	2.30	0.46
1:M:158:TRP:H	1:M:158:TRP:HD1	1.61	0.46
1:J:273:ARG:HH22	1:J:453:LEU:CD1	2.28	0.46
1:X:273:ARG:CZ	1:X:275:ARG:HE	2.28	0.46
1:K:234:ILE:HG12	1:K:267:ALA:HB3	1.96	0.46
1:A:227:GLU:HA	1:A:274:ARG:CA	2.44	0.46
1:E:273:ARG:HH22	1:E:453:LEU:CD1	2.28	0.46
1:J:197:ASP:O	1:J:198:ILE:HB	2.15	0.46
1:Q:454:ALA:O	1:Q:455:THR:C	2.53	0.46
1:V:280:ILE:HG22	1:V:287:LEU:HD13	1.97	0.46
1:I:376:ARG:HB2	1:J:352:TRP:CG	2.51	0.46
1:O:238:PRO:HD3	1:O:263:PHE:HB2	1.96	0.46
1:N:238:PRO:HD3	1:N:263:PHE:HB2	1.97	0.46
2:Z:140:ARG:O	2:Z:141:MET:HB3	2.16	0.46
1:R:95:MSE:HE1	1:R:99:ARG:NH2	2.31	0.46
1:V:378:ASP:O	1:V:381:SER:O	2.34	0.46
1:T:387:GLN:HG2	1:T:387:GLN:H	1.57	0.46
1:T:429:GLN:HG2	1:T:429:GLN:O	2.15	0.46
1:J:539:LEU:HD21	1:J:551:LEU:HB3	1.96	0.46
1:B:539:LEU:HD21	1:B:551:LEU:CB	2.44	0.46
1:C:539:LEU:HD21	1:C:551:LEU:CB	2.44	0.46
1:J:410:SER:O	1:J:414:GLU:HG2	2.16	0.46
1:U:260:ASP:HA	1:U:264:ILE:HB	1.97	0.46
1:Q:127:ARG:HG2	1:Q:147:GLU:HB2	1.96	0.46
1:E:410:SER:O	1:E:414:GLU:HG2	2.16	0.46
1:P:322:LEU:N	1:P:322:LEU:HD22	2.29	0.46
1:W:227:GLU:O	1:W:227:GLU:CG	2.63	0.46
1:Q:174:THR:N	3:Q:705:HOH:O	2.47	0.46
1:F:162:SER:HB2	1:F:170:ALA:HB2	1.96	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:127:ARG:HG2	1:O:147:GLU:HB2	1.96	0.46
1:A:162:SER:HB2	1:A:170:ALA:HB2	1.96	0.46
1:I:410:SER:O	1:I:414:GLU:HG2	2.16	0.46
1:A:565:VAL:O	1:A:569:ARG:HB3	2.15	0.46
1:B:48:TYR:O	1:B:49:THR:CB	2.64	0.46
1:C:26:ARG:NH2	1:C:30:LYS:HB2	2.28	0.46
1:E:101:ASP:HB2	1:E:144:ILE:O	2.14	0.46
1:E:28:GLU:HG3	1:E:32:ASP:OD2	2.15	0.46
1:E:434:THR:HA	1:E:437:GLN:HG2	1.98	0.46
1:E:444:LEU:N	1:E:444:LEU:HD13	2.31	0.46
1:G:71:MSE:CE	1:G:115:VAL:HB	2.45	0.46
1:H:115:VAL:O	1:H:119:ILE:HG13	2.15	0.46
1:H:71:MSE:CE	1:H:115:VAL:HB	2.45	0.46
1:I:317:GLU:HB3	1:I:321:ARG:CZ	2.46	0.46
1:I:77:ASP:HB2	1:I:523:SER:HB2	1.98	0.46
1:J:78:VAL:CG2	1:J:444:LEU:HD21	2.46	0.46
1:L:565:VAL:O	1:L:569:ARG:HB3	2.15	0.46
1:O:164:LEU:HD22	1:O:169:ASP:OD1	2.15	0.46
1:P:164:LEU:HA	1:P:307:TRP:CH2	2.51	0.46
1:Q:316:TYR:O	1:Q:321:ARG:NH1	2.49	0.46
1:S:33:LEU:HD12	1:S:34:PHE:N	2.31	0.46
1:T:37:ARG:C	1:T:39:SER:H	2.18	0.46
1:T:80:TYR:OH	1:T:444:LEU:HD12	2.16	0.46
1:V:47:GLN:CG	1:V:48:TYR:H	2.28	0.46
1:V:560:LEU:O	1:V:561:ASP:O	2.33	0.46
1:W:443:ASP:C	1:W:444:LEU:HD13	2.36	0.46
1:T:330:ARG:O	1:T:334:MSE:HB2	2.16	0.46
1:P:409:THR:O	1:P:413:LYS:HG2	2.15	0.46
1:W:409:THR:O	1:W:413:LYS:HG2	2.16	0.46
1:W:47:GLN:N	1:W:48:TYR:HD2	2.14	0.46
1:K:248:LYS:HB3	1:K:511:ARG:NH1	2.30	0.46
1:B:227:GLU:HA	1:B:274:ARG:CA	2.44	0.46
1:D:248:LYS:HB3	1:D:511:ARG:NH1	2.30	0.46
1:H:230:GLU:HG2	1:H:273:ARG:HB2	1.96	0.46
1:A:230:GLU:HG2	1:A:273:ARG:HB2	1.96	0.46
1:C:273:ARG:HH22	1:C:453:LEU:CD1	2.28	0.46
1:L:248:LYS:HB3	1:L:511:ARG:NH1	2.30	0.46
1:L:273:ARG:HH22	1:L:453:LEU:CD1	2.28	0.46
1:F:219:ILE:HD12	1:F:281:ILE:O	2.16	0.46
1:X:193:LEU:HD22	1:X:287:LEU:HB3	1.97	0.46
1:W:198:ILE:O	1:W:198:ILE:HG22	2.14	0.46
1:T:577:ILE:HG12	1:T:582:LYS:CG	2.45	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:238:PRO:HD3	1:U:263:PHE:HB2	1.98	0.46
1:I:207:TRP:O	1:I:208:VAL:C	2.53	0.46
1:B:207:TRP:O	1:B:208:VAL:C	2.53	0.46
1:A:238:PRO:HG3	1:A:263:PHE:CB	2.46	0.46
1:T:86:ALA:CB	1:T:515:GLU:HG3	2.45	0.46
3:S:719:HOH:O	1:T:430:VAL:HG11	2.15	0.46
1:U:322:LEU:H	1:U:322:LEU:HD22	1.80	0.46
1:A:539:LEU:HD21	1:A:551:LEU:HB3	1.96	0.46
1:T:227:GLU:O	1:T:227:GLU:CG	2.63	0.46
1:G:410:SER:O	1:G:414:GLU:HG2	2.16	0.46
1:L:162:SER:HB2	1:L:170:ALA:HB2	1.96	0.46
3:T:718:HOH:O	1:W:438:LEU:HD22	2.15	0.46
1:A:34:PHE:HE1	1:A:324:LYS:HZ2	1.52	0.46
1:A:35:PHE:HE1	1:A:321:ARG:NH1	2.13	0.46
1:B:71:MSE:CE	1:B:115:VAL:HB	2.45	0.46
1:B:28:GLU:HG3	1:B:32:ASP:OD2	2.15	0.46
1:B:92:ASP:N	1:B:92:ASP:OD2	2.48	0.46
1:E:92:ASP:OD2	1:E:92:ASP:N	2.48	0.46
1:F:71:MSE:CE	1:F:115:VAL:HB	2.45	0.46
1:F:444:LEU:C	1:F:446:THR:H	2.19	0.46
1:J:115:VAL:O	1:J:119:ILE:HG13	2.15	0.46
1:J:77:ASP:HB2	1:J:523:SER:HB2	1.98	0.46
1:K:164:LEU:HA	1:K:307:TRP:HH2	1.80	0.46
1:L:28:GLU:HG3	1:L:32:ASP:OD2	2.15	0.46
1:M:80:TYR:OH	1:M:444:LEU:HD12	2.16	0.46
1:N:560:LEU:O	1:N:561:ASP:O	2.33	0.46
2:Z:28:VAL:CB	2:Z:96:LEU:HD13	2.45	0.46
2:Y:28:VAL:CB	2:Y:96:LEU:HD13	2.45	0.46
1:N:29:ALA:O	1:N:33:LEU:HG	2.16	0.46
1:N:47:GLN:N	1:N:48:TYR:HD2	2.14	0.46
1:P:165:MSE:HG3	1:P:307:TRP:CD2	2.50	0.46
1:R:144:ILE:HD12	1:R:145:ARG:N	2.30	0.46
1:S:31:ASN:O	1:S:34:PHE:HB3	2.15	0.46
1:T:82:PRO:O	1:T:516:CYS:HA	2.15	0.46
1:T:78:VAL:CG1	1:T:444:LEU:HG	2.45	0.46
1:V:66:LYS:HZ3	1:V:420:VAL:HG11	1.80	0.46
1:W:100:THR:HG22	1:W:138:THR:HG22	1.96	0.46
1:W:560:LEU:O	1:W:561:ASP:O	2.32	0.46
1:W:47:GLN:H	1:W:48:TYR:HD2	1.63	0.46
1:J:273:ARG:O	1:J:274:ARG:CB	2.64	0.46
1:H:234:ILE:HG22	1:H:246:TYR:HB3	1.98	0.46
1:C:248:LYS:HB3	1:C:511:ARG:NH1	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:234:ILE:HG12	1:F:267:ALA:HB3	1.96	0.46
1:B:201:PHE:HE2	1:B:281:ILE:HG22	1.80	0.46
1:A:219:ILE:HD12	1:A:281:ILE:O	2.16	0.46
1:D:219:ILE:HD12	1:D:281:ILE:O	2.16	0.46
1:N:193:LEU:HD22	1:N:287:LEU:HB3	1.97	0.46
1:G:535:ILE:CD1	1:G:554:LEU:HG	2.44	0.46
1:W:232:ALA:HB2	1:W:269:ARG:O	2.15	0.46
1:O:198:ILE:HG22	1:O:198:ILE:O	2.14	0.46
1:U:554:LEU:O	1:U:557:PHE:HB3	2.15	0.46
1:V:193:LEU:HD22	1:V:287:LEU:HB3	1.98	0.46
1:T:238:PRO:HD3	1:T:263:PHE:HB2	1.96	0.46
1:D:557:PHE:CE2	1:E:563:LYS:HD3	2.50	0.46
1:N:262:GLY:O	1:N:263:PHE:HB3	2.14	0.46
1:W:554:LEU:O	1:W:557:PHE:HB3	2.16	0.46
1:U:293:ILE:HD13	1:U:294:ALA:N	2.30	0.46
1:N:86:ALA:CB	1:N:515:GLU:HG3	2.44	0.46
1:X:293:ILE:HG12	1:X:294:ALA:H	1.81	0.46
1:P:387:GLN:HB2	1:Q:390:ALA:HB2	1.98	0.46
1:T:387:GLN:CB	1:W:390:ALA:HB2	2.46	0.46
1:I:81:ARG:HB2	1:I:517:TYR:CZ	2.50	0.46
1:R:422:THR:HG22	1:R:423:GLU:N	2.31	0.46
1:O:108:LYS:HD2	1:P:438:LEU:HD11	1.97	0.46
1:J:162:SER:HB2	1:J:170:ALA:HB2	1.97	0.46
1:W:422:THR:HG22	1:W:423:GLU:N	2.31	0.46
1:O:191:TYR:HE1	1:O:278:LYS:HZ3	1.62	0.46
1:P:556:TYR:OH	1:Q:542:THR:HG21	2.15	0.46
1:S:348:LYS:HB2	1:U:372:TYR:CE2	2.50	0.46
1:U:438:LEU:HD22	3:X:718:HOH:O	2.15	0.46
1:D:434:THR:HA	1:D:437:GLN:CD	2.35	0.46
1:E:164:LEU:HA	1:E:307:TRP:CH2	2.51	0.46
1:E:317:GLU:HB3	1:E:321:ARG:CZ	2.46	0.46
1:F:28:GLU:HG3	1:F:32:ASP:OD2	2.15	0.46
1:I:26:ARG:NH2	1:I:30:LYS:HB2	2.28	0.46
1:J:434:THR:HA	1:J:437:GLN:HG2	1.98	0.46
1:M:34:PHE:CE2	1:M:45:LEU:HG	2.46	0.46
1:M:528:LYS:CD	1:M:560:LEU:HD21	2.46	0.46
1:O:29:ALA:O	1:O:33:LEU:HG	2.16	0.46
1:O:37:ARG:C	1:O:39:SER:H	2.19	0.46
1:O:528:LYS:CD	1:O:560:LEU:HD21	2.46	0.46
1:P:47:GLN:CG	1:P:48:TYR:H	2.26	0.46
1:S:41:TRP:HE3	1:S:42:ASP:HB3	1.81	0.46
1:V:164:LEU:HA	1:V:307:TRP:HH2	1.79	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:82:PRO:O	1:V:516:CYS:HA	2.16	0.46
1:X:123:VAL:HG22	1:X:316:TYR:HE2	1.81	0.46
1:X:528:LYS:CD	1:X:560:LEU:HD21	2.46	0.46
1:M:409:THR:O	1:M:413:LYS:HG2	2.16	0.46
1:Q:71:MSE:CE	1:Q:115:VAL:HB	2.46	0.46
1:N:71:MSE:CE	1:N:115:VAL:HB	2.46	0.46
1:G:248:LYS:HB3	1:G:511:ARG:NH1	2.30	0.46
1:A:227:GLU:OE2	1:A:227:GLU:N	2.47	0.46
1:I:234:ILE:HG12	1:I:267:ALA:HB3	1.96	0.46
1:I:248:LYS:HB3	1:I:511:ARG:NH1	2.30	0.46
1:F:273:ARG:O	1:F:274:ARG:CB	2.64	0.46
1:L:234:ILE:HG12	1:L:267:ALA:HB3	1.96	0.46
1:F:201:PHE:HE2	1:F:281:ILE:HG22	1.80	0.46
1:H:198:ILE:HA	1:H:199:PRO:HD3	1.64	0.46
1:L:219:ILE:HD12	1:L:281:ILE:O	2.16	0.46
1:W:266:ILE:O	1:W:267:ALA:HB2	2.15	0.46
1:K:219:ILE:HD12	1:K:281:ILE:O	2.16	0.46
1:W:573:ASN:O	1:W:577:ILE:HG13	2.16	0.46
1:W:577:ILE:HG12	1:W:582:LYS:CG	2.44	0.46
1:W:454:ALA:O	1:W:455:THR:C	2.52	0.46
1:M:378:ASP:O	1:M:381:SER:O	2.34	0.46
1:Q:293:ILE:HG12	1:Q:294:ALA:H	1.81	0.46
1:S:390:ALA:HB2	1:U:387:GLN:HB2	1.98	0.46
1:S:429:GLN:O	1:S:429:GLN:HG2	2.16	0.46
1:W:429:GLN:O	1:W:429:GLN:HG2	2.16	0.46
1:H:162:SER:HB2	1:H:170:ALA:HB2	1.97	0.46
1:K:77:ASP:HB2	1:K:523:SER:HB2	1.98	0.46
1:A:48:TYR:O	1:A:49:THR:CB	2.64	0.46
1:B:34:PHE:CD2	1:B:34:PHE:O	2.68	0.46
1:C:164:LEU:HA	1:C:307:TRP:HH2	1.80	0.46
1:D:28:GLU:HG3	1:D:32:ASP:OD2	2.15	0.46
1:D:434:THR:HA	1:D:437:GLN:HG2	1.98	0.46
1:D:444:LEU:C	1:D:446:THR:H	2.19	0.46
1:E:164:LEU:HA	1:E:307:TRP:HH2	1.79	0.46
1:E:29:ALA:O	1:E:33:LEU:HG	2.15	0.46
1:G:130:THR:HG22	1:G:144:ILE:HA	1.97	0.46
1:G:72:ARG:HD2	1:H:434:THR:HG21	1.98	0.46
1:J:164:LEU:HA	1:J:307:TRP:CH2	2.51	0.46
1:J:82:PRO:HB2	1:J:83:LYS:H	1.58	0.46
1:L:115:VAL:O	1:L:119:ILE:HG13	2.15	0.46
1:L:317:GLU:HB3	1:L:321:ARG:CZ	2.46	0.46
1:M:47:GLN:N	1:M:48:TYR:HD2	2.14	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:47:GLN:CG	1:O:48:TYR:H	2.28	0.46
1:L:78:VAL:CG2	1:L:444:LEU:HD21	2.46	0.46
1:N:434:THR:HG23	1:N:435:VAL:N	2.30	0.46
1:Q:528:LYS:CD	1:Q:560:LEU:HD21	2.46	0.46
1:T:123:VAL:CG1	1:T:304:PHE:CE1	2.99	0.46
1:V:37:ARG:C	1:V:39:SER:N	2.68	0.46
1:V:420:VAL:HA	1:V:428:GLY:HA2	1.98	0.46
1:Q:71:MSE:HE3	1:Q:115:VAL:HB	1.97	0.46
1:V:405:LEU:O	1:V:409:THR:HG23	2.16	0.46
1:K:273:ARG:O	1:K:274:ARG:CB	2.64	0.46
1:B:248:LYS:HZ1	1:B:513:ARG:HH12	1.63	0.46
1:D:234:ILE:HG12	1:D:267:ALA:HB3	1.96	0.46
1:F:248:LYS:HB3	1:F:511:ARG:NH1	2.30	0.46
1:I:219:ILE:HD12	1:I:281:ILE:O	2.16	0.46
1:M:535:ILE:HD11	1:N:564:GLY:HA3	1.98	0.46
1:M:554:LEU:O	1:M:557:PHE:HB3	2.15	0.46
1:R:280:ILE:HD12	1:R:280:ILE:N	2.31	0.46
1:L:413:LYS:HE2	1:L:413:LYS:HB3	1.74	0.46
1:J:542:THR:HA	1:J:543:PRO:HD3	1.82	0.46
1:M:86:ALA:CB	1:M:515:GLU:HG3	2.45	0.46
1:W:378:ASP:O	1:W:381:SER:O	2.34	0.46
1:E:238:PRO:HG3	1:E:263:PHE:CB	2.46	0.46
1:P:387:GLN:CB	1:Q:390:ALA:CB	2.94	0.46
1:T:155:HIS:CE1	1:T:204:PRO:HB2	2.51	0.46
1:V:422:THR:HG22	1:V:423:GLU:N	2.31	0.46
1:X:77:ASP:HB2	1:X:523:SER:HB2	1.98	0.46
1:L:343:ARG:HG2	1:L:343:ARG:H	1.52	0.46
1:T:322:LEU:HD22	1:T:322:LEU:N	2.31	0.46
1:V:227:GLU:O	1:V:227:GLU:CG	2.64	0.46
1:S:174:THR:N	3:S:705:HOH:O	2.49	0.46
1:S:171:ARG:O	1:S:224:GLU:HA	2.15	0.46
1:A:115:VAL:O	1:A:119:ILE:HG13	2.15	0.46
1:A:28:GLU:HG3	1:A:32:ASP:OD2	2.15	0.46
1:D:565:VAL:O	1:D:569:ARG:HB3	2.15	0.46
1:F:58:ASP:O	1:F:59:VAL:HB	2.14	0.46
1:F:94:LEU:HA	1:F:97:MSE:CE	2.37	0.46
1:G:92:ASP:OD2	1:G:92:ASP:N	2.48	0.46
1:I:561:ASP:OD2	1:J:92:ASP:HB3	2.16	0.46
1:K:444:LEU:C	1:K:446:THR:H	2.19	0.46
1:K:528:LYS:HZ3	1:K:560:LEU:HD21	1.80	0.46
1:N:82:PRO:O	1:N:516:CYS:HA	2.16	0.46
1:P:123:VAL:CG1	1:P:304:PHE:CE1	2.99	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:31:ASN:O	1:Q:34:PHE:HB3	2.15	0.46
1:R:47:GLN:CG	1:R:48:TYR:H	2.28	0.46
1:S:340:ILE:O	1:S:344:THR:HG21	2.16	0.46
1:T:164:LEU:HA	1:T:307:TRP:HH2	1.81	0.46
1:W:444:LEU:O	1:W:446:THR:N	2.49	0.46
1:F:139:SER:CB	1:F:455:THR:CG2	2.80	0.46
1:P:160:SER:O	1:P:161:ASN:ND2	2.44	0.46
1:S:118:GLN:OE1	1:S:303:VAL:HB	2.15	0.46
1:T:330:ARG:HD2	1:T:409:THR:CG2	2.39	0.46
1:V:451:ASP:C	1:V:453:LEU:H	2.19	0.46
1:J:248:LYS:HB3	1:J:511:ARG:NH1	2.30	0.46
1:O:273:ARG:CZ	1:O:275:ARG:HE	2.29	0.46
1:R:274:ARG:O	1:R:275:ARG:HD2	2.15	0.46
1:G:201:PHE:HE2	1:G:281:ILE:HG22	1.80	0.46
1:G:219:ILE:HD12	1:G:281:ILE:O	2.16	0.46
1:B:219:ILE:HD12	1:B:281:ILE:O	2.16	0.46
1:I:197:ASP:O	1:I:198:ILE:HB	2.15	0.46
1:J:219:ILE:HD12	1:J:281:ILE:O	2.16	0.46
1:K:197:ASP:O	1:K:198:ILE:HB	2.15	0.46
1:Q:376:ARG:HB2	1:R:352:TRP:CG	2.50	0.46
1:F:567:MSE:HE2	1:G:554:LEU:HD22	1.97	0.46
1:B:413:LYS:HE2	1:B:413:LYS:HB3	1.73	0.46
1:R:95:MSE:HE1	1:R:99:ARG:CZ	2.46	0.46
1:R:343:ARG:H	1:R:343:ARG:HG2	1.56	0.46
1:N:155:HIS:CE1	1:N:204:PRO:HB2	2.50	0.46
1:S:396:GLU:O	1:T:399:GLN:OE1	2.34	0.46
1:W:260:ASP:HA	1:W:264:ILE:HB	1.97	0.46
1:R:260:ASP:HA	1:R:264:ILE:HB	1.97	0.46
1:O:76:ILE:HD12	1:O:433:ASP:OD1	2.16	0.46
1:F:410:SER:O	1:F:414:GLU:HG2	2.16	0.46
1:W:55:GLY:HA3	1:W:57:PHE:CE1	2.50	0.46
1:S:260:ASP:HA	1:S:264:ILE:HB	1.96	0.46
1:X:55:GLY:HA3	1:X:57:PHE:CE1	2.50	0.46
1:G:363:TYR:HE1	1:H:350:PHE:HE1	1.64	0.46
1:A:171:ARG:HH21	1:L:182:ASN:HD22	1.64	0.46
1:B:164:LEU:HA	1:B:307:TRP:CH2	2.51	0.46
1:B:317:GLU:HB3	1:B:321:ARG:CZ	2.46	0.46
1:B:77:ASP:HB2	1:B:523:SER:HB2	1.98	0.46
1:G:35:PHE:HE1	1:G:321:ARG:NH1	2.13	0.46
1:I:35:PHE:CE1	1:I:321:ARG:NH1	2.84	0.46
1:L:29:ALA:O	1:L:33:LEU:HG	2.15	0.46
1:M:444:LEU:N	1:M:444:LEU:HD13	2.30	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:24:GLU:O	1:O:26:ARG:N	2.49	0.46
1:O:82:PRO:O	1:O:516:CYS:HA	2.16	0.46
1:K:565:VAL:O	1:K:569:ARG:HB3	2.15	0.46
1:U:26:ARG:HG3	1:U:27:ARG:N	2.31	0.46
1:U:437:GLN:HA	1:U:440:MSE:HB2	1.98	0.46
1:W:35:PHE:C	1:W:37:ARG:N	2.69	0.46
1:S:158:TRP:HD1	1:S:158:TRP:H	1.63	0.46
1:S:451:ASP:C	1:S:453:LEU:H	2.19	0.46
1:G:273:ARG:O	1:G:274:ARG:CB	2.64	0.46
1:P:273:ARG:HH22	1:P:453:LEU:CD2	2.29	0.46
1:D:273:ARG:O	1:D:274:ARG:CB	2.64	0.46
1:H:234:ILE:HG12	1:H:267:ALA:HB3	1.96	0.46
1:R:451:ASP:C	1:R:453:LEU:N	2.69	0.46
1:C:234:ILE:HG22	1:C:246:TYR:HB3	1.98	0.46
1:F:234:ILE:HG22	1:F:246:TYR:HB3	1.98	0.46
1:E:219:ILE:HD12	1:E:281:ILE:O	2.16	0.46
1:H:197:ASP:O	1:H:198:ILE:HB	2.15	0.46
1:Q:198:ILE:O	1:Q:198:ILE:HG22	2.16	0.46
1:D:567:MSE:HE2	1:F:554:LEU:HD22	1.97	0.46
1:T:575:GLN:O	1:T:579:MSE:CG	2.63	0.46
1:G:207:TRP:O	1:G:208:VAL:C	2.53	0.46
1:T:66:LYS:HZ3	1:T:420:VAL:HG21	1.81	0.46
1:V:238:PRO:HD3	1:V:263:PHE:HB2	1.98	0.46
1:K:293:ILE:HD13	1:K:294:ALA:N	2.31	0.46
1:Q:378:ASP:O	1:Q:381:SER:O	2.34	0.46
1:W:86:ALA:CB	1:W:515:GLU:HG3	2.45	0.46
1:W:322:LEU:HD22	1:W:322:LEU:H	1.80	0.46
1:O:371:TYR:HE2	1:O:373:LEU:HD21	1.81	0.46
1:M:227:GLU:CG	1:M:227:GLU:O	2.64	0.46
1:L:410:SER:O	1:L:414:GLU:HG2	2.16	0.46
1:A:410:SER:O	1:A:414:GLU:HG2	2.16	0.46
1:N:77:ASP:HB2	1:N:523:SER:HB2	1.98	0.46
1:A:317:GLU:HB3	1:A:321:ARG:CZ	2.46	0.46
1:A:334:MSE:HE3	1:B:404:MSE:CE	2.46	0.46
1:C:71:MSE:CE	1:C:115:VAL:HB	2.45	0.46
1:D:78:VAL:HG21	1:D:444:LEU:CD1	2.21	0.46
1:F:48:TYR:O	1:F:49:THR:CB	2.64	0.46
1:G:35:PHE:CE1	1:G:321:ARG:NH1	2.84	0.46
1:I:28:GLU:HG3	1:I:32:ASP:OD2	2.15	0.46
1:I:92:ASP:OD2	1:I:92:ASP:N	2.48	0.46
1:K:71:MSE:CE	1:K:115:VAL:HB	2.45	0.46
1:K:78:VAL:CG2	1:K:444:LEU:HD21	2.46	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:165:MSE:HG3	1:M:307:TRP:CD2	2.51	0.46
1:M:35:PHE:CE1	1:M:321:ARG:NH1	2.83	0.46
1:O:33:LEU:HD12	1:O:34:PHE:N	2.31	0.46
1:N:35:PHE:CE1	1:N:321:ARG:NH1	2.84	0.46
1:P:528:LYS:CD	1:P:560:LEU:HD21	2.46	0.46
1:Q:38:VAL:HG21	1:Q:324:LYS:HD2	1.98	0.46
1:Q:78:VAL:CG1	1:Q:79:LEU:H	2.29	0.46
1:Q:80:TYR:OH	1:Q:444:LEU:HD12	2.16	0.46
1:R:316:TYR:O	1:R:321:ARG:NH1	2.49	0.46
1:S:37:ARG:C	1:S:39:SER:H	2.20	0.46
1:W:37:ARG:CB	1:W:37:ARG:HH21	2.28	0.46
1:W:37:ARG:C	1:W:39:SER:H	2.19	0.46
1:W:78:VAL:CG1	1:W:444:LEU:HG	2.45	0.46
1:X:437:GLN:HA	1:X:440:MSE:HB2	1.98	0.46
1:M:14:ARG:NE	1:M:14:ARG:CA	2.70	0.46
1:T:560:LEU:O	1:T:561:ASP:O	2.33	0.46
1:X:248:LYS:CD	1:X:248:LYS:H	2.17	0.46
1:V:71:MSE:HE3	1:V:115:VAL:HB	1.98	0.46
1:H:234:ILE:CG2	1:H:246:TYR:HB3	2.46	0.46
1:A:273:ARG:O	1:A:274:ARG:CB	2.64	0.46
1:I:234:ILE:HG22	1:I:246:TYR:HB3	1.98	0.46
1:C:219:ILE:HD12	1:C:281:ILE:O	2.16	0.46
1:S:236:GLN:HG3	1:S:265:LYS:HG2	1.98	0.46
1:R:454:ALA:O	1:R:455:THR:C	2.54	0.46
1:O:232:ALA:HB2	1:O:269:ARG:O	2.16	0.46
1:A:376:ARG:HB2	1:B:352:TRP:CD2	2.51	0.46
1:J:293:ILE:HD13	1:J:294:ALA:N	2.31	0.46
1:S:71:MSE:HE3	1:S:115:VAL:HB	1.97	0.46
1:N:554:LEU:O	1:N:557:PHE:HB3	2.15	0.46
1:K:238:PRO:HG3	1:K:263:PHE:CB	2.46	0.46
1:V:86:ALA:CB	1:V:515:GLU:HG3	2.45	0.46
1:M:390:ALA:CB	1:N:387:GLN:CB	2.94	0.46
1:R:429:GLN:HG2	1:R:429:GLN:O	2.16	0.46
1:P:422:THR:HG22	1:P:423:GLU:N	2.31	0.46
1:T:55:GLY:HA3	1:T:57:PHE:CE1	2.51	0.46
1:N:227:GLU:CG	1:N:227:GLU:O	2.64	0.46
1:M:270:GLN:OE1	1:M:270:GLN:HA	2.16	0.46
1:T:171:ARG:O	1:T:224:GLU:HA	2.16	0.46
1:V:310:VAL:HG22	1:W:40:GLN:HG2	1.98	0.46
1:M:349:PRO:HG3	1:M:391:TYR:CE1	2.51	0.46
1:X:422:THR:HG22	1:X:423:GLU:N	2.31	0.46
1:P:171:ARG:O	1:P:224:GLU:HA	2.15	0.46

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:71:MSE:CE	1:A:115:VAL:HB	2.45	0.45
1:A:434:THR:HA	1:A:437:GLN:HG2	1.98	0.45
1:A:444:LEU:HD13	1:A:444:LEU:N	2.31	0.45
1:A:92:ASP:OD2	1:A:92:ASP:N	2.48	0.45
1:C:130:THR:HG22	1:C:144:ILE:HA	1.97	0.45
1:C:565:VAL:O	1:C:569:ARG:HB3	2.15	0.45
1:D:48:TYR:O	1:D:49:THR:CB	2.64	0.45
1:D:528:LYS:HD2	1:D:560:LEU:HD21	1.99	0.45
1:F:444:LEU:N	1:F:444:LEU:HD13	2.31	0.45
1:G:164:LEU:HA	1:G:307:TRP:CH2	2.51	0.45
1:K:40:GLN:O	1:K:41:TRP:CB	2.54	0.45
1:O:34:PHE:O	1:O:37:ARG:HB2	2.16	0.45
1:L:164:LEU:HA	1:L:307:TRP:CH2	2.51	0.45
1:N:418:LEU:HB2	1:N:428:GLY:O	2.15	0.45
1:Q:47:GLN:CG	1:Q:48:TYR:H	2.28	0.45
1:R:26:ARG:HG3	1:R:27:ARG:N	2.31	0.45
1:R:443:ASP:C	1:R:444:LEU:HD13	2.36	0.45
1:S:343:ARG:O	1:S:344:THR:HB	2.16	0.45
1:U:37:ARG:C	1:U:39:SER:H	2.19	0.45
1:U:41:TRP:HE3	1:U:42:ASP:HB3	1.81	0.45
1:V:38:VAL:HG21	1:V:324:LYS:HD2	1.98	0.45
1:V:47:GLN:H	1:V:48:TYR:HD2	1.62	0.45
1:V:160:SER:O	1:V:161:ASN:ND2	2.46	0.45
1:Q:248:LYS:HG3	1:Q:511:ARG:HE	1.81	0.45
1:R:409:THR:O	1:R:413:LYS:HG2	2.16	0.45
1:N:160:SER:O	1:N:161:ASN:ND2	2.46	0.45
1:J:234:ILE:CG2	1:J:246:TYR:HB3	2.46	0.45
1:K:234:ILE:HG22	1:K:246:TYR:HB3	1.98	0.45
1:K:273:ARG:O	1:K:274:ARG:HB3	2.17	0.45
1:D:234:ILE:CG2	1:D:246:TYR:HB3	2.47	0.45
1:D:273:ARG:HH22	1:D:453:LEU:CD1	2.28	0.45
1:C:246:TYR:HD2	1:C:511:ARG:CB	2.28	0.45
1:E:234:ILE:HG12	1:E:267:ALA:HB3	1.96	0.45
1:E:201:PHE:HE2	1:E:281:ILE:HG22	1.80	0.45
1:X:24:GLU:O	1:X:26:ARG:N	2.48	0.45
1:S:231:THR:CG2	1:S:249:ARG:HH11	2.23	0.45
1:D:563:LYS:HD3	1:F:557:PHE:CE2	2.51	0.45
1:I:293:ILE:HD13	1:I:294:ALA:N	2.31	0.45
1:S:378:ASP:O	1:S:381:SER:O	2.34	0.45
1:V:554:LEU:O	1:V:557:PHE:HB3	2.16	0.45
1:T:293:ILE:HG12	1:T:294:ALA:H	1.81	0.45
1:F:238:PRO:HG3	1:F:263:PHE:CB	2.46	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:238:PRO:HG3	1:B:263:PHE:CB	2.46	0.45
1:P:429:GLN:HG2	1:P:429:GLN:O	2.17	0.45
1:K:590:GLN:O	1:K:594:VAL:HG23	2.16	0.45
1:H:590:GLN:O	1:H:594:VAL:HG23	2.16	0.45
1:I:590:GLN:O	1:I:594:VAL:HG23	2.16	0.45
1:A:35:PHE:CE1	1:A:321:ARG:NH1	2.84	0.45
1:B:29:ALA:O	1:B:33:LEU:HG	2.15	0.45
1:B:434:THR:HA	1:B:437:GLN:HG2	1.97	0.45
1:C:413:LYS:HE2	1:C:413:LYS:HB3	1.74	0.45
1:E:77:ASP:HB2	1:E:523:SER:HB2	1.98	0.45
1:G:78:VAL:HG21	1:G:444:LEU:CD1	2.21	0.45
1:G:82:PRO:HB2	1:G:83:LYS:H	1.58	0.45
1:I:427:GLY:C	1:I:429:GLN:N	2.70	0.45
1:J:444:LEU:N	1:J:444:LEU:HD13	2.31	0.45
1:K:35:PHE:CE1	1:K:321:ARG:NH1	2.84	0.45
1:M:37:ARG:C	1:M:39:SER:H	2.19	0.45
1:O:101:ASP:HB3	1:O:138:THR:HG21	1.98	0.45
1:N:444:LEU:HD13	1:N:444:LEU:N	2.31	0.45
1:O:136:SER:N	1:O:137:PRO:HD3	2.31	0.45
1:Q:47:GLN:N	1:Q:48:TYR:HD2	2.14	0.45
1:R:136:SER:N	1:R:137:PRO:HD3	2.31	0.45
1:R:444:LEU:HD13	1:R:444:LEU:N	2.31	0.45
1:S:316:TYR:O	1:S:321:ARG:NH1	2.50	0.45
1:T:118:GLN:OE1	1:T:303:VAL:HB	2.16	0.45
1:T:26:ARG:HG3	1:T:27:ARG:N	2.30	0.45
1:W:38:VAL:HG21	1:W:324:LYS:HD2	1.99	0.45
1:S:158:TRP:HH2	1:S:302:PRO:HG3	1.78	0.45
1:W:273:ARG:CZ	1:W:275:ARG:HE	2.29	0.45
1:G:227:GLU:HA	1:G:274:ARG:CA	2.44	0.45
1:G:234:ILE:HG22	1:G:246:TYR:HB3	1.98	0.45
1:B:234:ILE:HG22	1:B:246:TYR:HB3	1.98	0.45
1:B:234:ILE:CG2	1:B:246:TYR:HB3	2.47	0.45
1:H:273:ARG:O	1:H:274:ARG:HB3	2.17	0.45
1:L:236:GLN:HE21	1:L:265:LYS:HZ3	1.63	0.45
1:H:219:ILE:HD12	1:H:281:ILE:O	2.16	0.45
1:U:193:LEU:HD22	1:U:287:LEU:HB3	1.98	0.45
1:S:40:GLN:HE21	1:S:40:GLN:HB2	1.58	0.45
2:Y:140:ARG:O	2:Y:141:MET:HB3	2.16	0.45
1:I:238:PRO:HG3	1:I:263:PHE:CB	2.46	0.45
1:M:155:HIS:CE1	1:M:204:PRO:HB2	2.52	0.45
1:Q:86:ALA:CB	1:Q:515:GLU:HG3	2.45	0.45
1:R:86:ALA:CB	1:R:515:GLU:HG3	2.46	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:451:ASP:O	1:G:456:ALA:N	2.40	0.45
1:P:127:ARG:HG2	1:P:147:GLU:HB2	1.97	0.45
1:W:136:SER:N	1:W:137:PRO:HD3	2.31	0.45
1:V:171:ARG:O	1:V:224:GLU:HA	2.15	0.45
1:S:395:PRO:HD2	1:T:398:PRO:HB3	1.99	0.45
1:Q:227:GLU:O	1:Q:227:GLU:CG	2.64	0.45
1:O:422:THR:HG22	1:O:423:GLU:N	2.31	0.45
1:A:78:VAL:CG2	1:A:444:LEU:HD21	2.46	0.45
1:C:317:GLU:HB3	1:C:321:ARG:CZ	2.46	0.45
1:C:444:LEU:HD13	1:C:444:LEU:N	2.31	0.45
1:D:164:LEU:HA	1:D:307:TRP:CH2	2.51	0.45
1:E:45:LEU:HD21	1:E:328:ARG:HH21	1.82	0.45
1:F:35:PHE:CE1	1:F:321:ARG:NH1	2.84	0.45
1:G:444:LEU:N	1:G:444:LEU:HD13	2.31	0.45
1:H:317:GLU:HB3	1:H:321:ARG:CZ	2.46	0.45
1:K:317:GLU:HB3	1:K:321:ARG:CZ	2.46	0.45
1:K:444:LEU:HD13	1:K:444:LEU:N	2.31	0.45
1:M:123:VAL:HG22	1:M:316:TYR:HE2	1.82	0.45
1:N:31:ASN:O	1:N:34:PHE:HB3	2.15	0.45
1:N:66:LYS:HZ3	1:N:420:VAL:HG21	1.81	0.45
1:U:528:LYS:CD	1:U:560:LEU:HD21	2.46	0.45
1:K:139:SER:CB	1:K:455:THR:CG2	2.80	0.45
1:O:118:GLN:OE1	1:O:303:VAL:HB	2.15	0.45
1:U:71:MSE:CE	1:U:115:VAL:HB	2.46	0.45
1:R:334:MSE:HE1	1:X:407:ALA:HB1	1.99	0.45
1:U:409:THR:O	1:U:413:LYS:HG2	2.16	0.45
1:Q:413:LYS:HA	1:Q:416:ALA:HB3	1.99	0.45
1:Q:273:ARG:CZ	1:Q:275:ARG:HE	2.30	0.45
1:J:234:ILE:HG22	1:J:246:TYR:HB3	1.98	0.45
1:G:234:ILE:CG2	1:G:246:TYR:HB3	2.47	0.45
1:D:251:ILE:HG23	1:D:507:LEU:HD22	1.98	0.45
1:A:234:ILE:HG22	1:A:246:TYR:HB3	1.98	0.45
1:A:273:ARG:O	1:A:274:ARG:HB3	2.17	0.45
1:I:273:ARG:O	1:I:274:ARG:CB	2.64	0.45
1:F:246:TYR:HD2	1:F:511:ARG:CB	2.28	0.45
1:P:282:THR:HG23	1:P:287:LEU:CD1	2.44	0.45
1:P:232:ALA:HB2	1:P:269:ARG:O	2.16	0.45
1:I:577:ILE:HG12	1:I:582:LYS:CG	2.41	0.45
1:A:293:ILE:HD13	1:A:294:ALA:N	2.31	0.45
1:P:564:GLY:HA3	1:Q:535:ILE:HD11	1.99	0.45
1:C:232:ALA:N	1:C:269:ARG:O	2.50	0.45
1:O:86:ALA:CB	1:O:515:GLU:HG3	2.44	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:Y:43:GLN:C	2:Y:45:ALA:N	2.70	0.45
1:K:262:GLY:O	1:K:263:PHE:HB3	2.17	0.45
1:O:71:MSE:HE3	1:O:115:VAL:HB	1.98	0.45
1:X:66:LYS:HZ3	1:X:420:VAL:HG21	1.82	0.45
1:W:71:MSE:HE3	1:W:115:VAL:HB	1.98	0.45
1:O:351:PHE:CD2	1:O:356:ILE:HD12	2.51	0.45
1:N:371:TYR:HE2	1:N:373:LEU:HD21	1.82	0.45
1:H:232:ALA:N	1:H:269:ARG:O	2.50	0.45
1:A:35:PHE:HE2	1:A:324:LYS:NZ	2.08	0.45
1:B:26:ARG:NH2	1:B:30:LYS:HB2	2.28	0.45
1:C:164:LEU:HA	1:C:307:TRP:CH2	2.51	0.45
1:F:164:LEU:HA	1:F:307:TRP:CH2	2.51	0.45
1:G:28:GLU:HG3	1:G:32:ASP:OD2	2.15	0.45
1:G:427:GLY:C	1:G:429:GLN:N	2.70	0.45
1:G:528:LYS:HD2	1:G:560:LEU:HD21	1.99	0.45
1:G:561:ASP:OD2	1:H:92:ASP:HB3	2.16	0.45
1:H:164:LEU:HA	1:H:307:TRP:CH2	2.51	0.45
1:H:78:VAL:CG2	1:H:444:LEU:HD21	2.46	0.45
1:J:182:ASN:HD22	1:K:171:ARG:HH21	1.65	0.45
1:M:29:ALA:O	1:M:33:LEU:HG	2.16	0.45
1:M:34:PHE:O	1:M:37:ARG:HB2	2.17	0.45
1:L:92:ASP:OD2	1:L:92:ASP:N	2.48	0.45
1:O:343:ARG:O	1:O:344:THR:HB	2.16	0.45
1:R:443:ASP:O	1:R:446:THR:HG22	2.17	0.45
1:S:164:LEU:HA	1:S:307:TRP:CH2	2.51	0.45
1:T:41:TRP:HE3	1:T:42:ASP:HB3	1.82	0.45
1:U:34:PHE:O	1:U:37:ARG:HB2	2.16	0.45
1:V:26:ARG:HG3	1:V:27:ARG:N	2.31	0.45
1:V:316:TYR:O	1:V:321:ARG:NH1	2.50	0.45
1:V:528:LYS:CD	1:V:560:LEU:HD21	2.46	0.45
1:W:444:LEU:HD13	1:W:444:LEU:N	2.32	0.45
1:P:14:ARG:CA	1:P:14:ARG:NE	2.71	0.45
1:W:82:PRO:O	1:W:516:CYS:HA	2.17	0.45
1:X:409:THR:O	1:X:413:LYS:HG2	2.16	0.45
1:B:273:ARG:O	1:B:274:ARG:HB3	2.17	0.45
1:C:273:ARG:O	1:C:274:ARG:CB	2.64	0.45
1:L:273:ARG:O	1:L:274:ARG:HB3	2.17	0.45
1:J:201:PHE:HE2	1:J:281:ILE:HG22	1.80	0.45
1:W:24:GLU:HG3	1:W:313:LYS:HE2	1.98	0.45
1:W:198:ILE:HA	1:W:199:PRO:HD3	1.71	0.45
1:R:66:LYS:HZ3	1:R:420:VAL:HG11	1.79	0.45
1:K:207:TRP:O	1:K:208:VAL:C	2.53	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:293:ILE:HD13	1:H:294:ALA:N	2.31	0.45
1:L:293:ILE:HD13	1:L:294:ALA:N	2.31	0.45
1:F:9:GLU:HG3	1:F:12:LEU:H	1.82	0.45
1:A:9:GLU:HG3	1:A:12:LEU:H	1.81	0.45
3:Q:719:HOH:O	1:R:430:VAL:HG11	2.15	0.45
1:A:262:GLY:O	1:A:263:PHE:HB3	2.17	0.45
1:B:262:GLY:O	1:B:263:PHE:HB3	2.17	0.45
1:E:262:GLY:O	1:E:263:PHE:HB3	2.17	0.45
1:H:262:GLY:O	1:H:263:PHE:HB3	2.17	0.45
1:X:429:GLN:O	1:X:429:GLN:HG2	2.16	0.45
1:D:86:ALA:CB	1:D:515:GLU:HG3	2.47	0.45
1:D:410:SER:O	1:D:414:GLU:HG2	2.16	0.45
1:E:590:GLN:O	1:E:594:VAL:HG23	2.16	0.45
1:U:174:THR:N	3:U:705:HOH:O	2.50	0.45
1:P:76:ILE:HD12	1:P:433:ASP:OD1	2.16	0.45
1:X:136:SER:N	1:X:137:PRO:HD3	2.32	0.45
1:P:396:GLU:O	1:Q:399:GLN:OE1	2.34	0.45
1:V:127:ARG:HG2	1:V:147:GLU:HB2	1.98	0.45
1:A:26:ARG:NH2	1:A:30:LYS:HB2	2.28	0.45
1:A:77:ASP:HB2	1:A:523:SER:HB2	1.98	0.45
1:B:444:LEU:N	1:B:444:LEU:HD13	2.31	0.45
1:C:77:ASP:HB2	1:C:523:SER:HB2	1.98	0.45
1:F:434:THR:HA	1:F:437:GLN:HG2	1.97	0.45
1:F:528:LYS:HD2	1:F:560:LEU:HD21	1.99	0.45
1:F:182:ASN:HD22	1:G:171:ARG:HH21	1.61	0.45
1:G:77:ASP:HB2	1:G:523:SER:HB2	1.98	0.45
1:L:71:MSE:CE	1:L:115:VAL:HB	2.45	0.45
1:N:343:ARG:H	1:N:343:ARG:HG2	1.53	0.45
1:N:528:LYS:CD	1:N:560:LEU:HD21	2.46	0.45
1:O:165:MSE:HG3	1:O:307:TRP:CD2	2.49	0.45
1:O:26:ARG:HG3	1:O:27:ARG:N	2.32	0.45
1:P:53:TYR:OH	1:Q:329:LEU:HD21	2.16	0.45
1:Q:66:LYS:HZ3	1:Q:420:VAL:HG21	1.82	0.45
1:R:24:GLU:O	1:R:26:ARG:N	2.50	0.45
1:T:31:ASN:O	1:T:34:PHE:HB3	2.16	0.45
1:V:136:SER:N	1:V:137:PRO:HD3	2.31	0.45
1:R:53:TYR:OH	1:X:329:LEU:HD21	2.16	0.45
1:T:528:LYS:CD	1:T:560:LEU:HD21	2.47	0.45
1:S:273:ARG:CZ	1:S:275:ARG:HE	2.29	0.45
1:C:234:ILE:HG12	1:C:267:ALA:HB3	1.96	0.45
1:C:251:ILE:HG23	1:C:507:LEU:HD22	1.98	0.45
1:E:251:ILE:HG23	1:E:507:LEU:HD22	1.98	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:234:ILE:CG2	1:F:246:TYR:HB3	2.47	0.45
1:F:251:ILE:HG23	1:F:507:LEU:HD22	1.98	0.45
1:U:198:ILE:HA	1:U:199:PRO:HD3	1.71	0.45
1:F:567:MSE:SE	1:G:576:LEU:HD13	2.66	0.45
1:S:193:LEU:HD22	1:S:287:LEU:HB3	1.97	0.45
1:K:57:PHE:CD2	1:K:330:ARG:CB	2.95	0.45
1:X:384:LEU:HD22	1:X:384:LEU:N	2.29	0.45
1:E:293:ILE:HD13	1:E:294:ALA:N	2.31	0.45
1:D:293:ILE:HD13	1:D:294:ALA:N	2.31	0.45
1:N:378:ASP:O	1:N:381:SER:O	2.34	0.45
1:W:420:VAL:HA	1:W:428:GLY:HA2	1.98	0.45
1:E:427:GLY:C	1:E:429:GLN:N	2.70	0.45
1:D:427:GLY:C	1:D:429:GLN:N	2.70	0.45
1:Q:322:LEU:H	1:Q:322:LEU:HD22	1.82	0.45
1:A:86:ALA:CB	1:A:515:GLU:HG3	2.47	0.45
1:U:227:GLU:O	1:U:227:GLU:CG	2.64	0.45
1:G:232:ALA:N	1:G:269:ARG:O	2.50	0.45
1:L:232:ALA:N	1:L:269:ARG:O	2.50	0.45
1:B:410:SER:O	1:B:414:GLU:HG2	2.16	0.45
1:F:232:ALA:N	1:F:269:ARG:O	2.50	0.45
1:G:590:GLN:O	1:G:594:VAL:HG23	2.16	0.45
1:C:410:SER:O	1:C:414:GLU:HG2	2.16	0.45
1:Q:396:GLU:O	1:R:399:GLN:OE1	2.34	0.45
1:A:47:GLN:CG	1:A:47:GLN:O	2.65	0.45
1:B:444:LEU:C	1:B:446:THR:H	2.19	0.45
1:C:58:ASP:O	1:C:59:VAL:HB	2.15	0.45
1:E:35:PHE:CE1	1:E:321:ARG:NH1	2.84	0.45
1:F:45:LEU:HD21	1:F:328:ARG:HH21	1.82	0.45
1:F:427:GLY:C	1:F:429:GLN:N	2.70	0.45
1:G:48:TYR:O	1:G:49:THR:CB	2.64	0.45
1:K:47:GLN:O	1:K:47:GLN:CG	2.65	0.45
1:K:9:GLU:HG3	1:K:12:LEU:H	1.82	0.45
1:R:31:ASN:O	1:R:34:PHE:HB3	2.16	0.45
1:R:35:PHE:C	1:R:37:ARG:N	2.70	0.45
1:R:37:ARG:C	1:R:39:SER:H	2.18	0.45
1:T:160:SER:O	1:T:161:ASN:ND2	2.43	0.45
1:T:443:ASP:C	1:T:444:LEU:HD13	2.36	0.45
1:U:136:SER:N	1:U:137:PRO:HD3	2.31	0.45
1:U:35:PHE:C	1:U:37:ARG:N	2.69	0.45
1:U:443:ASP:C	1:U:444:LEU:HD13	2.37	0.45
1:V:165:MSE:HG3	1:V:307:TRP:CD2	2.49	0.45
1:V:343:ARG:HG2	1:V:343:ARG:H	1.55	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:511:ARG:HA	1:T:513:ARG:CD	2.44	0.45
1:T:334:MSE:HE1	1:W:407:ALA:HB1	1.98	0.45
1:X:158:TRP:HH2	1:X:302:PRO:HG3	1.80	0.45
1:Q:510:ILE:O	1:Q:513:ARG:HD2	2.17	0.45
2:Y:71:ASP:O	2:Y:72:ASP:CB	2.65	0.45
2:Y:75:PRO:HA	2:Y:76:PRO:HD3	1.42	0.45
1:T:47:GLN:N	1:T:48:TYR:HD2	2.15	0.45
1:H:273:ARG:O	1:H:274:ARG:CB	2.64	0.45
1:I:227:GLU:OE2	1:I:227:GLU:N	2.47	0.45
1:C:273:ARG:O	1:C:274:ARG:HB3	2.17	0.45
1:E:234:ILE:HG22	1:E:246:TYR:HB3	1.98	0.45
1:I:201:PHE:HE2	1:I:281:ILE:HG22	1.80	0.45
1:O:193:LEU:HD22	1:O:287:LEU:HB3	1.98	0.45
1:O:554:LEU:O	1:O:557:PHE:HB3	2.16	0.45
1:H:207:TRP:O	1:H:208:VAL:C	2.54	0.45
1:R:40:GLN:HG2	1:X:310:VAL:HG22	1.98	0.45
1:G:9:GLU:HG3	1:G:12:LEU:H	1.82	0.45
1:D:238:PRO:HG3	1:D:263:PHE:CB	2.46	0.45
1:D:262:GLY:O	1:D:263:PHE:HB3	2.17	0.45
1:L:427:GLY:C	1:L:429:GLN:N	2.70	0.45
1:J:86:ALA:CB	1:J:515:GLU:HG3	2.47	0.45
1:K:410:SER:O	1:K:414:GLU:HG2	2.16	0.45
1:X:171:ARG:O	1:X:224:GLU:HA	2.17	0.45
1:F:590:GLN:O	1:F:594:VAL:HG23	2.16	0.45
1:T:270:GLN:OE1	1:T:270:GLN:HA	2.17	0.45
1:R:127:ARG:HG2	1:R:147:GLU:HB2	1.97	0.45
1:B:590:GLN:O	1:B:594:VAL:HG23	2.17	0.45
1:A:232:ALA:N	1:A:269:ARG:O	2.50	0.45
1:N:422:THR:HG22	1:N:423:GLU:N	2.32	0.45
1:E:47:GLN:O	1:E:47:GLN:CG	2.65	0.45
1:H:72:ARG:HD2	1:I:434:THR:HG21	1.99	0.45
1:I:528:LYS:HZ3	1:I:560:LEU:HD21	1.80	0.45
1:I:94:LEU:HA	1:I:97:MSE:CE	2.37	0.45
1:J:48:TYR:O	1:J:49:THR:CB	2.64	0.45
1:M:24:GLU:O	1:M:26:ARG:N	2.49	0.45
1:M:41:TRP:HE1	1:O:27:ARG:NH2	2.14	0.45
1:O:316:TYR:O	1:O:321:ARG:NH1	2.49	0.45
1:O:35:PHE:CE1	1:O:321:ARG:NH1	2.84	0.45
1:Q:343:ARG:O	1:Q:344:THR:HB	2.16	0.45
1:L:444:LEU:N	1:L:444:LEU:HD13	2.31	0.45
1:R:444:LEU:O	1:R:446:THR:N	2.49	0.45
1:T:316:TYR:O	1:T:321:ARG:NH1	2.50	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:123:VAL:CG1	1:V:304:PHE:CE1	3.00	0.45
1:V:35:PHE:C	1:V:37:ARG:N	2.70	0.45
1:X:444:LEU:HD13	1:X:444:LEU:N	2.30	0.45
1:O:510:ILE:O	1:O:513:ARG:HD2	2.17	0.45
2:Z:71:ASP:O	2:Z:72:ASP:CB	2.65	0.45
1:M:298:ILE:HA	1:M:299:PRO:HD3	1.79	0.45
1:P:334:MSE:HE1	1:Q:407:ALA:HB1	1.99	0.45
1:G:273:ARG:O	1:G:274:ARG:HB3	2.16	0.45
1:T:451:ASP:O	1:T:453:LEU:N	2.49	0.45
1:A:234:ILE:CG2	1:A:246:TYR:HB3	2.46	0.45
1:E:234:ILE:CG2	1:E:246:TYR:HB3	2.47	0.45
1:E:273:ARG:O	1:E:274:ARG:CB	2.64	0.45
1:E:273:ARG:O	1:E:274:ARG:HB3	2.17	0.45
1:E:248:LYS:HZ1	1:E:513:ARG:HH12	1.64	0.45
1:L:273:ARG:O	1:L:274:ARG:CB	2.64	0.45
1:C:201:PHE:HE2	1:C:281:ILE:HG22	1.80	0.45
1:X:26:ARG:HG3	1:X:27:ARG:N	2.31	0.45
1:X:235:TYR:OH	1:X:252:LYS:NZ	2.48	0.45
1:X:232:ALA:HB2	1:X:269:ARG:O	2.17	0.45
3:J:719:HOH:O	1:K:438:LEU:HD22	2.16	0.45
1:F:293:ILE:HD13	1:F:294:ALA:N	2.31	0.45
1:U:420:VAL:HA	1:U:428:GLY:HA2	1.98	0.45
1:B:293:ILE:HD13	1:B:294:ALA:N	2.31	0.45
1:S:310:VAL:HG22	1:U:40:GLN:HG2	1.99	0.45
1:M:276:VAL:CG2	1:M:293:ILE:HG23	2.47	0.45
1:E:177:HIS:HE1	1:E:221:GLU:OE1	2.00	0.45
1:P:378:ASP:O	1:P:381:SER:O	2.35	0.45
1:C:238:PRO:HG3	1:C:263:PHE:CB	2.46	0.45
1:L:262:GLY:O	1:L:263:PHE:HB3	2.17	0.45
1:K:451:ASP:O	1:K:456:ALA:N	2.41	0.45
1:B:456:ALA:CB	1:B:509:ASP:OD2	2.65	0.45
1:L:456:ALA:CB	1:L:509:ASP:OD2	2.65	0.45
1:B:86:ALA:CB	1:B:515:GLU:HG3	2.47	0.45
1:G:534:GLU:O	1:G:538:LEU:HD23	2.17	0.45
1:Q:171:ARG:O	1:Q:224:GLU:HA	2.17	0.45
1:N:55:GLY:HA3	1:N:57:PHE:CE1	2.51	0.45
1:U:371:TYR:HE2	1:U:373:LEU:HD21	1.81	0.45
1:P:227:GLU:CG	1:P:227:GLU:O	2.64	0.45
1:M:422:THR:HG22	1:M:423:GLU:N	2.32	0.45
1:H:410:SER:O	1:H:414:GLU:HG2	2.16	0.45
1:J:590:GLN:O	1:J:594:VAL:HG23	2.17	0.45
1:I:232:ALA:N	1:I:269:ARG:O	2.50	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:U:422:THR:HG22	1:U:423:GLU:N	2.31	0.45
1:A:45:LEU:HD21	1:A:328:ARG:HH21	1.82	0.45
1:B:47:GLN:CG	1:B:47:GLN:O	2.65	0.45
1:C:35:PHE:CE1	1:C:321:ARG:NH1	2.84	0.45
1:F:317:GLU:HB3	1:F:321:ARG:CZ	2.46	0.45
1:G:434:THR:HA	1:G:437:GLN:HG2	1.98	0.45
1:H:413:LYS:HE2	1:H:413:LYS:HB3	1.74	0.45
1:H:77:ASP:HB2	1:H:523:SER:HB2	1.98	0.45
1:I:48:TYR:O	1:I:49:THR:CB	2.64	0.45
1:I:528:LYS:HD2	1:I:560:LEU:HD21	1.99	0.45
1:J:528:LYS:HZ3	1:J:560:LEU:HD21	1.80	0.45
1:J:78:VAL:HG21	1:J:444:LEU:CD1	2.21	0.45
1:L:35:PHE:CE1	1:L:321:ARG:NH1	2.84	0.45
1:M:100:THR:HG22	1:M:138:THR:HG22	1.97	0.45
1:M:82:PRO:O	1:M:516:CYS:HA	2.17	0.45
1:O:420:VAL:HA	1:O:428:GLY:HA2	1.98	0.45
1:O:444:LEU:O	1:O:446:THR:N	2.50	0.45
1:N:164:LEU:HA	1:N:307:TRP:HH2	1.81	0.45
1:N:41:TRP:HE3	1:N:42:ASP:HB3	1.80	0.45
1:P:31:ASN:O	1:P:34:PHE:HB3	2.15	0.45
1:P:37:ARG:C	1:P:39:SER:H	2.20	0.45
1:Q:26:ARG:HG3	1:Q:27:ARG:N	2.31	0.45
1:Q:41:TRP:HE3	1:Q:42:ASP:HB3	1.82	0.45
1:S:123:VAL:HG22	1:S:316:TYR:HE2	1.80	0.45
1:U:47:GLN:H	1:U:48:TYR:HD2	1.65	0.45
1:W:443:ASP:O	1:W:446:THR:HG22	2.17	0.45
1:X:164:LEU:HD22	1:X:169:ASP:OD1	2.17	0.45
1:W:511:ARG:HA	1:W:513:ARG:CD	2.44	0.45
1:S:301:VAL:HA	1:S:302:PRO:HD3	1.80	0.45
1:O:409:THR:O	1:O:413:LYS:HG2	2.16	0.45
1:X:118:GLN:OE1	1:X:303:VAL:HB	2.17	0.45
1:R:301:VAL:HA	1:R:302:PRO:HD3	1.79	0.45
1:Q:451:ASP:C	1:Q:453:LEU:N	2.70	0.45
1:K:234:ILE:CG2	1:K:246:TYR:HB3	2.47	0.45
1:B:246:TYR:HD2	1:B:511:ARG:CB	2.28	0.45
1:B:273:ARG:O	1:B:274:ARG:CB	2.64	0.45
1:T:273:ARG:HH22	1:T:453:LEU:CD2	2.28	0.45
1:I:251:ILE:HG23	1:I:507:LEU:HD22	1.98	0.45
1:L:251:ILE:HG23	1:L:507:LEU:HD22	1.99	0.45
1:E:577:ILE:HG12	1:E:582:LYS:CG	2.41	0.45
1:A:404:MSE:CE	1:L:334:MSE:HE3	2.47	0.45
1:U:454:ALA:O	1:U:455:THR:C	2.54	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:293:ILE:HD13	1:G:294:ALA:N	2.31	0.45
1:D:177:HIS:HE1	1:D:221:GLU:OE1	2.00	0.45
1:E:9:GLU:HG3	1:E:12:LEU:H	1.82	0.45
1:H:177:HIS:HE1	1:H:221:GLU:OE1	2.00	0.45
1:A:427:GLY:C	1:A:429:GLN:N	2.70	0.45
1:R:322:LEU:HD22	1:R:322:LEU:H	1.81	0.45
1:K:534:GLU:O	1:K:538:LEU:HD23	2.17	0.45
1:M:348:LYS:HB2	1:N:372:TYR:CE2	2.52	0.45
1:N:191:TYR:HE1	1:N:278:LYS:HZ3	1.63	0.45
1:Q:422:THR:HG22	1:Q:423:GLU:N	2.32	0.45
1:O:190:LYS:HE3	1:O:190:LYS:HA	1.99	0.45
1:R:77:ASP:HB2	1:R:523:SER:HB2	1.98	0.45
1:T:76:ILE:HD12	1:T:433:ASP:OD1	2.16	0.45
1:D:590:GLN:O	1:D:594:VAL:HG23	2.17	0.45
1:A:444:LEU:C	1:A:446:THR:H	2.19	0.45
1:C:444:LEU:C	1:C:446:THR:H	2.19	0.45
1:E:48:TYR:O	1:E:49:THR:CB	2.64	0.45
1:H:47:GLN:O	1:H:47:GLN:CG	2.65	0.45
1:I:164:LEU:HA	1:I:307:TRP:CH2	2.51	0.45
1:I:434:THR:HA	1:I:437:GLN:HG2	1.98	0.45
1:O:444:LEU:HD13	1:O:444:LEU:N	2.31	0.45
1:L:434:THR:HA	1:L:437:GLN:HG2	1.98	0.45
1:S:123:VAL:HG13	1:S:304:PHE:CE1	2.52	0.45
1:S:78:VAL:CG1	1:S:79:LEU:H	2.30	0.45
1:X:35:PHE:C	1:X:37:ARG:N	2.70	0.45
1:I:273:ARG:O	1:I:274:ARG:HB3	2.16	0.45
1:L:234:ILE:HG22	1:L:246:TYR:HB3	1.98	0.45
1:G:567:MSE:SE	1:H:576:LEU:HD13	2.67	0.45
1:P:26:ARG:HG3	1:P:27:ARG:N	2.31	0.45
1:S:266:ILE:O	1:S:267:ALA:HB2	2.17	0.45
1:P:193:LEU:HD22	1:P:287:LEU:HB3	1.98	0.45
1:U:232:ALA:HB1	1:U:233:PHE:H	1.57	0.45
1:J:563:LYS:HD3	1:K:557:PHE:CE2	2.52	0.45
1:A:177:HIS:HE1	1:A:221:GLU:OE1	2.00	0.45
1:I:177:HIS:HE1	1:I:221:GLU:OE1	2.00	0.45
1:U:429:GLN:O	1:U:429:GLN:HG2	2.16	0.45
1:C:456:ALA:CB	1:C:509:ASP:OD2	2.65	0.45
1:D:456:ALA:CB	1:D:509:ASP:OD2	2.65	0.45
1:F:456:ALA:CB	1:F:509:ASP:OD2	2.65	0.45
1:I:451:ASP:O	1:I:456:ALA:N	2.41	0.45
1:L:534:GLU:O	1:L:538:LEU:HD23	2.17	0.45
1:H:534:GLU:O	1:H:538:LEU:HD23	2.17	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:86:ALA:CB	1:G:515:GLU:HG3	2.47	0.45
1:A:534:GLU:O	1:A:538:LEU:HD23	2.17	0.45
1:W:127:ARG:HG2	1:W:147:GLU:HB2	1.98	0.45
1:X:76:ILE:HD12	1:X:433:ASP:OD1	2.17	0.45
1:B:232:ALA:N	1:B:269:ARG:O	2.50	0.45
1:W:77:ASP:HB2	1:W:523:SER:HB2	1.99	0.45
1:N:260:ASP:HA	1:N:264:ILE:HB	1.97	0.45
1:C:434:THR:HA	1:C:437:GLN:HG2	1.98	0.45
1:D:45:LEU:HD21	1:D:328:ARG:HH21	1.82	0.45
1:F:31:ASN:HD22	1:F:31:ASN:HA	1.62	0.45
1:H:434:THR:HA	1:H:437:GLN:HG2	1.97	0.45
1:I:45:LEU:HD22	1:I:45:LEU:N	2.32	0.45
1:J:427:GLY:C	1:J:429:GLN:N	2.70	0.45
1:K:164:LEU:HA	1:K:307:TRP:CH2	2.51	0.45
1:K:26:ARG:NH2	1:K:30:LYS:HB2	2.28	0.45
1:L:47:GLN:CG	1:L:47:GLN:O	2.65	0.45
1:M:26:ARG:HG3	1:M:27:ARG:N	2.31	0.45
1:O:35:PHE:HZ	1:O:321:ARG:NE	2.11	0.45
1:O:35:PHE:C	1:O:37:ARG:N	2.70	0.45
1:P:444:LEU:N	1:P:444:LEU:HD13	2.30	0.45
1:P:80:TYR:OH	1:P:444:LEU:HD12	2.17	0.45
1:Q:136:SER:N	1:Q:137:PRO:HD3	2.33	0.45
1:U:343:ARG:O	1:U:344:THR:HB	2.16	0.45
1:W:33:LEU:HD12	1:W:34:PHE:N	2.31	0.45
1:C:139:SER:CB	1:C:455:THR:CG2	2.80	0.45
1:S:15:PHE:CE2	1:S:19:TRP:NE1	2.85	0.45
1:X:158:TRP:H	1:X:158:TRP:HD1	1.65	0.45
1:U:330:ARG:O	1:U:334:MSE:HB2	2.17	0.45
1:W:330:ARG:HD2	1:W:409:THR:CG2	2.40	0.45
1:P:273:ARG:CZ	1:P:275:ARG:HE	2.30	0.45
1:H:227:GLU:HA	1:H:274:ARG:CA	2.44	0.45
1:N:451:ASP:C	1:N:453:LEU:H	2.19	0.45
1:C:234:ILE:CG2	1:C:246:TYR:HB3	2.47	0.45
1:L:246:TYR:HD2	1:L:511:ARG:CB	2.28	0.45
1:D:201:PHE:HE2	1:D:281:ILE:HG22	1.80	0.45
1:N:198:ILE:HA	1:N:199:PRO:HD3	1.70	0.45
1:W:280:ILE:HD12	1:W:280:ILE:N	2.32	0.45
1:T:232:ALA:HB2	1:T:269:ARG:O	2.17	0.45
1:B:334:MSE:HE3	1:C:404:MSE:HE3	1.99	0.45
1:G:376:ARG:HB2	1:H:352:TRP:CG	2.52	0.45
1:D:554:LEU:HD22	1:E:567:MSE:HE2	1.99	0.45
1:B:9:GLU:HG3	1:B:12:LEU:H	1.81	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:378:ASP:O	1:T:381:SER:O	2.35	0.45
1:H:542:THR:HA	1:H:543:PRO:HD3	1.82	0.45
1:A:348:LYS:HB2	1:L:372:TYR:CD2	2.50	0.45
1:G:238:PRO:HG3	1:G:263:PHE:CB	2.46	0.45
1:X:418:LEU:HB2	1:X:428:GLY:O	2.16	0.45
1:D:534:GLU:O	1:D:538:LEU:HD23	2.17	0.45
1:E:86:ALA:CB	1:E:515:GLU:HG3	2.47	0.45
1:F:86:ALA:CB	1:F:515:GLU:HG3	2.47	0.45
1:H:372:TYR:CE2	1:I:348:LYS:HB2	2.51	0.45
1:V:198:ILE:HG22	1:V:198:ILE:O	2.17	0.45
1:A:45:LEU:HD22	1:A:45:LEU:N	2.32	0.44
1:B:35:PHE:CE1	1:B:321:ARG:NH1	2.84	0.44
1:B:78:VAL:HG21	1:B:444:LEU:CD1	2.21	0.44
1:C:427:GLY:C	1:C:429:GLN:N	2.70	0.44
1:C:78:VAL:HG21	1:C:444:LEU:CD1	2.21	0.44
1:E:434:THR:O	1:E:437:GLN:HG2	2.17	0.44
1:E:528:LYS:HD2	1:E:560:LEU:HD21	1.99	0.44
1:F:47:GLN:CG	1:F:47:GLN:O	2.65	0.44
1:G:434:THR:O	1:G:437:GLN:HG2	2.17	0.44
1:G:444:LEU:C	1:G:446:THR:H	2.19	0.44
1:J:444:LEU:C	1:J:446:THR:H	2.19	0.44
1:J:45:LEU:N	1:J:45:LEU:HD22	2.32	0.44
1:J:528:LYS:HD2	1:J:560:LEU:HD21	1.99	0.44
1:L:45:LEU:HD21	1:L:328:ARG:HH21	1.82	0.44
1:M:41:TRP:HE1	1:O:27:ARG:HH21	1.63	0.44
1:M:437:GLN:HA	1:M:440:MSE:HB2	1.97	0.44
1:N:136:SER:N	1:N:137:PRO:HD3	2.31	0.44
1:N:37:ARG:C	1:N:39:SER:H	2.19	0.44
1:R:123:VAL:CG1	1:R:304:PHE:CE1	3.00	0.44
1:S:82:PRO:O	1:S:516:CYS:HA	2.17	0.44
1:T:158:TRP:HD1	1:T:158:TRP:H	1.64	0.44
1:U:100:THR:HG22	1:U:138:THR:HG22	1.98	0.44
1:U:147:GLU:HA	1:U:148:PRO:HD3	1.81	0.44
1:U:316:TYR:O	1:U:321:ARG:NH1	2.50	0.44
1:V:444:LEU:HD13	1:V:444:LEU:N	2.32	0.44
1:X:34:PHE:O	1:X:37:ARG:HB2	2.17	0.44
1:R:511:ARG:HA	1:R:513:ARG:CD	2.45	0.44
1:M:274:ARG:O	1:M:275:ARG:HD2	2.18	0.44
1:R:71:MSE:HE3	1:R:115:VAL:HB	1.98	0.44
1:M:118:GLN:OE1	1:M:303:VAL:HB	2.17	0.44
1:Q:273:ARG:HH22	1:Q:453:LEU:CD2	2.30	0.44
1:J:273:ARG:NH2	1:J:453:LEU:HD11	2.32	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:273:ARG:NH2	1:K:453:LEU:HD11	2.33	0.44
1:R:236:GLN:H	1:R:265:LYS:HB2	1.82	0.44
1:N:236:GLN:H	1:N:265:LYS:HB2	1.82	0.44
1:Q:193:LEU:HD22	1:Q:287:LEU:HB3	1.97	0.44
1:N:577:ILE:HG12	1:N:582:LYS:CG	2.45	0.44
1:T:420:VAL:HA	1:T:428:GLY:HA2	1.98	0.44
1:H:9:GLU:HG3	1:H:12:LEU:H	1.81	0.44
1:J:9:GLU:HG3	1:J:12:LEU:H	1.81	0.44
1:F:177:HIS:HE1	1:F:221:GLU:OE1	2.00	0.44
1:G:262:GLY:O	1:G:263:PHE:HB3	2.17	0.44
1:J:238:PRO:HG3	1:J:263:PHE:CB	2.46	0.44
1:Q:429:GLN:O	1:Q:429:GLN:HG2	2.17	0.44
1:Q:57:PHE:N	1:Q:57:PHE:CD1	2.84	0.44
2:Z:39:PRO:HB2	2:Z:40:GLN:H	1.51	0.44
1:K:86:ALA:CB	1:K:515:GLU:HG3	2.47	0.44
1:F:534:GLU:O	1:F:538:LEU:HD23	2.17	0.44
1:D:232:ALA:N	1:D:269:ARG:O	2.50	0.44
1:K:232:ALA:N	1:K:269:ARG:O	2.50	0.44
1:Q:280:ILE:HD12	1:Q:280:ILE:N	2.33	0.44
1:L:77:ASP:HB2	1:L:523:SER:HB2	1.98	0.44
1:D:77:ASP:HB2	1:D:523:SER:HB2	1.98	0.44
1:E:78:VAL:CG2	1:E:444:LEU:HD21	2.46	0.44
1:F:45:LEU:N	1:F:45:LEU:HD22	2.32	0.44
1:G:47:GLN:CG	1:G:47:GLN:O	2.65	0.44
1:H:45:LEU:HD21	1:H:328:ARG:HH21	1.82	0.44
1:K:45:LEU:N	1:K:45:LEU:HD22	2.32	0.44
1:L:26:ARG:NH2	1:L:30:LYS:HB2	2.28	0.44
1:L:9:GLU:HG3	1:L:12:LEU:H	1.81	0.44
1:M:136:SER:N	1:M:137:PRO:HD3	2.32	0.44
1:O:78:VAL:CG1	1:O:444:LEU:HG	2.47	0.44
1:O:47:GLN:N	1:O:48:TYR:HD2	2.15	0.44
1:P:164:LEU:HA	1:P:307:TRP:HH2	1.81	0.44
1:Q:418:LEU:HB2	1:Q:428:GLY:O	2.16	0.44
1:X:340:ILE:O	1:X:344:THR:HG21	2.16	0.44
1:X:38:VAL:HG21	1:X:324:LYS:HD2	1.99	0.44
1:X:443:ASP:C	1:X:446:THR:HG22	2.36	0.44
1:X:71:MSE:HE3	1:X:115:VAL:HB	1.99	0.44
1:R:528:LYS:CD	1:R:560:LEU:HD21	2.47	0.44
1:R:118:GLN:OE1	1:R:303:VAL:HB	2.16	0.44
1:B:251:ILE:HG23	1:B:507:LEU:HD22	1.98	0.44
1:H:251:ILE:HG23	1:H:507:LEU:HD22	1.99	0.44
1:I:234:ILE:CG2	1:I:246:TYR:HB3	2.47	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:246:TYR:HD2	1:E:511:ARG:CB	2.28	0.44
1:F:227:GLU:OE2	1:F:227:GLU:N	2.47	0.44
1:F:273:ARG:O	1:F:274:ARG:HB3	2.17	0.44
1:L:234:ILE:CG2	1:L:246:TYR:HB3	2.47	0.44
1:S:564:GLY:O	1:T:554:LEU:HD21	2.17	0.44
1:W:236:GLN:HG3	1:W:265:LYS:HG2	1.99	0.44
1:W:24:GLU:O	1:W:26:ARG:N	2.49	0.44
1:M:236:GLN:H	1:M:265:LYS:HB2	1.83	0.44
1:Q:383:ASP:C	1:Q:385:PRO:HD3	2.38	0.44
1:S:236:GLN:H	1:S:265:LYS:HB2	1.82	0.44
1:P:198:ILE:O	1:P:198:ILE:HG22	2.16	0.44
1:V:387:GLN:H	1:V:387:GLN:HG2	1.57	0.44
1:T:71:MSE:HE3	1:T:115:VAL:HB	1.98	0.44
1:S:155:HIS:CE1	1:S:204:PRO:HB2	2.52	0.44
1:J:177:HIS:HE1	1:J:221:GLU:OE1	2.00	0.44
1:L:177:HIS:HE1	1:L:221:GLU:OE1	2.00	0.44
1:P:57:PHE:N	1:P:57:PHE:CD1	2.86	0.44
2:Z:37:VAL:C	2:Z:39:PRO:HD3	2.38	0.44
1:F:451:ASP:O	1:F:456:ALA:N	2.41	0.44
1:G:456:ALA:CB	1:G:509:ASP:OD2	2.65	0.44
1:B:343:ARG:H	1:B:343:ARG:HG2	1.52	0.44
1:K:538:LEU:HB3	1:K:551:LEU:HD13	2.00	0.44
1:P:322:LEU:H	1:P:322:LEU:HD22	1.81	0.44
1:V:190:LYS:HE3	1:V:190:LYS:HA	2.00	0.44
1:X:322:LEU:N	1:X:322:LEU:HD22	2.32	0.44
1:C:590:GLN:O	1:C:594:VAL:HG23	2.16	0.44
1:A:590:GLN:O	1:A:594:VAL:HG23	2.16	0.44
1:C:48:TYR:O	1:C:49:THR:CB	2.64	0.44
1:D:45:LEU:N	1:D:45:LEU:HD22	2.32	0.44
1:E:26:ARG:NH2	1:E:30:LYS:HB2	2.28	0.44
1:F:15:PHE:HE2	1:F:19:TRP:HE1	1.66	0.44
1:F:528:LYS:HZ2	1:F:560:LEU:HD21	1.79	0.44
1:H:334:MSE:HE3	1:I:404:MSE:HE1	1.99	0.44
1:I:25:ALA:O	1:I:29:ALA:CB	2.58	0.44
1:I:444:LEU:N	1:I:444:LEU:HD13	2.31	0.44
1:J:34:PHE:CE1	1:J:324:LYS:NZ	2.72	0.44
1:P:35:PHE:C	1:P:37:ARG:N	2.70	0.44
1:Q:420:VAL:HA	1:Q:428:GLY:HA2	1.99	0.44
1:S:26:ARG:HG3	1:S:27:ARG:N	2.31	0.44
1:S:444:LEU:HD13	1:S:444:LEU:N	2.32	0.44
1:T:136:SER:N	1:T:137:PRO:HD3	2.32	0.44
1:U:164:LEU:HD22	1:U:169:ASP:OD1	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:316:TYR:O	1:W:321:ARG:NH1	2.50	0.44
1:W:34:PHE:O	1:W:37:ARG:HB2	2.18	0.44
1:X:316:TYR:O	1:X:321:ARG:NH1	2.50	0.44
1:P:118:GLN:OE1	1:P:303:VAL:HB	2.17	0.44
1:J:273:ARG:O	1:J:274:ARG:HB3	2.17	0.44
1:O:273:ARG:HH22	1:O:453:LEU:CD2	2.30	0.44
1:G:251:ILE:HG23	1:G:507:LEU:HD22	1.99	0.44
1:P:451:ASP:C	1:P:453:LEU:H	2.18	0.44
1:D:273:ARG:NH2	1:D:453:LEU:HD11	2.32	0.44
1:Q:236:GLN:H	1:Q:265:LYS:HB2	1.82	0.44
1:W:26:ARG:HG3	1:W:27:ARG:N	2.32	0.44
1:O:236:GLN:HG3	1:O:265:LYS:HG2	2.00	0.44
1:N:232:ALA:HB2	1:N:269:ARG:O	2.18	0.44
1:N:454:ALA:O	1:N:455:THR:C	2.54	0.44
1:S:454:ALA:O	1:S:455:THR:C	2.54	0.44
1:A:400:ALA:HB3	1:L:395:PRO:HB2	1.99	0.44
1:C:262:GLY:O	1:C:263:PHE:HB3	2.17	0.44
1:C:343:ARG:HG2	1:C:343:ARG:H	1.52	0.44
2:Y:57:TYR:H	2:Y:63:ILE:H	1.65	0.44
1:K:177:HIS:HE1	1:K:221:GLU:OE1	2.00	0.44
1:B:427:GLY:C	1:B:429:GLN:N	2.70	0.44
2:Y:39:PRO:HB2	2:Y:40:GLN:H	1.51	0.44
1:D:451:ASP:O	1:D:456:ALA:N	2.41	0.44
1:E:456:ALA:CB	1:E:509:ASP:OD2	2.65	0.44
1:I:456:ALA:CB	1:I:509:ASP:OD2	2.65	0.44
1:I:86:ALA:CB	1:I:515:GLU:HG3	2.47	0.44
1:H:86:ALA:CB	1:H:515:GLU:HG3	2.47	0.44
1:J:232:ALA:N	1:J:269:ARG:O	2.50	0.44
1:V:77:ASP:HB2	1:V:523:SER:HB2	1.98	0.44
1:S:422:THR:HG22	1:S:423:GLU:N	2.32	0.44
1:T:422:THR:HG22	1:T:423:GLU:N	2.31	0.44
1:X:191:TYR:HE1	1:X:278:LYS:HZ3	1.66	0.44
1:C:47:GLN:CG	1:C:47:GLN:O	2.65	0.44
1:D:66:LYS:O	1:D:70:GLU:HG3	2.18	0.44
1:E:45:LEU:N	1:E:45:LEU:HD22	2.32	0.44
1:F:77:ASP:HB2	1:F:523:SER:HB2	1.98	0.44
1:G:45:LEU:N	1:G:45:LEU:HD22	2.32	0.44
1:H:182:ASN:HD22	1:I:171:ARG:HH21	1.65	0.44
1:I:434:THR:O	1:I:437:GLN:HG2	2.18	0.44
1:K:45:LEU:HD21	1:K:328:ARG:HH21	1.82	0.44
1:M:443:ASP:O	1:M:446:THR:HG22	2.18	0.44
1:L:434:THR:O	1:L:437:GLN:HG2	2.18	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:38:VAL:HG21	1:P:324:LYS:HD2	1.98	0.44
1:P:33:LEU:HD12	1:P:34:PHE:N	2.32	0.44
1:P:437:GLN:HA	1:P:440:MSE:HB2	2.00	0.44
1:P:78:VAL:CG1	1:P:444:LEU:HG	2.47	0.44
1:R:100:THR:HG22	1:R:138:THR:HG22	1.98	0.44
1:S:437:GLN:HA	1:S:440:MSE:HB2	1.99	0.44
1:S:80:TYR:OH	1:S:444:LEU:HD12	2.18	0.44
1:U:29:ALA:O	1:U:33:LEU:HG	2.18	0.44
1:V:34:PHE:O	1:V:37:ARG:HB2	2.17	0.44
1:W:35:PHE:CE1	1:W:321:ARG:NH1	2.85	0.44
1:Q:118:GLN:OE1	1:Q:303:VAL:HB	2.17	0.44
2:Y:104:TYR:N	2:Y:104:TYR:CD1	2.85	0.44
1:P:510:ILE:O	1:P:513:ARG:HD2	2.16	0.44
1:J:251:ILE:HG23	1:J:507:LEU:HD22	1.98	0.44
1:P:274:ARG:O	1:P:275:ARG:HD2	2.18	0.44
1:L:273:ARG:NH2	1:L:453:LEU:HD11	2.33	0.44
1:D:219:ILE:HD13	1:D:282:THR:HG22	2.00	0.44
2:Z:143:THR:N	2:Z:154:GLU:HA	2.32	0.44
1:T:236:GLN:H	1:T:265:LYS:HB2	1.82	0.44
1:X:236:GLN:H	1:X:265:LYS:HB2	1.83	0.44
1:Q:40:GLN:HE21	1:Q:40:GLN:HB2	1.58	0.44
1:N:276:VAL:CG2	1:N:293:ILE:HG23	2.47	0.44
1:W:276:VAL:CG2	1:W:293:ILE:HG23	2.47	0.44
1:F:262:GLY:O	1:F:263:PHE:HB3	2.17	0.44
1:O:429:GLN:HG2	1:O:429:GLN:O	2.18	0.44
1:W:71:MSE:CE	1:W:115:VAL:HB	2.47	0.44
1:H:456:ALA:CB	1:H:509:ASP:OD2	2.65	0.44
1:L:86:ALA:CB	1:L:515:GLU:HG3	2.47	0.44
1:B:538:LEU:HB3	1:B:551:LEU:HD13	2.00	0.44
1:C:538:LEU:HB3	1:C:551:LEU:HD13	2.00	0.44
1:I:538:LEU:HB3	1:I:551:LEU:HD13	2.00	0.44
1:Q:190:LYS:HA	1:Q:190:LYS:HE3	2.00	0.44
1:X:190:LYS:HA	1:X:190:LYS:HE3	2.00	0.44
1:R:174:THR:N	3:R:705:HOH:O	2.50	0.44
1:M:191:TYR:HE1	1:M:278:LYS:HZ3	1.64	0.44
1:A:164:LEU:HA	1:A:307:TRP:CH2	2.51	0.44
1:A:443:ASP:C	1:A:446:THR:HG22	2.38	0.44
1:C:78:VAL:CG2	1:C:444:LEU:HD21	2.46	0.44
1:D:434:THR:O	1:D:437:GLN:HG2	2.18	0.44
1:D:78:VAL:CG2	1:D:444:LEU:HD21	2.46	0.44
1:E:444:LEU:HD23	1:E:518:THR:OG1	2.18	0.44
1:F:40:GLN:O	1:F:41:TRP:CB	2.55	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:444:LEU:HD23	1:F:518:THR:OG1	2.18	0.44
1:G:45:LEU:HD21	1:G:328:ARG:HH21	1.82	0.44
1:G:444:LEU:HD23	1:G:518:THR:OG1	2.18	0.44
1:H:427:GLY:C	1:H:429:GLN:N	2.70	0.44
1:H:434:THR:O	1:H:437:GLN:HG2	2.18	0.44
1:H:443:ASP:C	1:H:446:THR:HG22	2.38	0.44
1:H:528:LYS:HD2	1:H:560:LEU:HD21	1.99	0.44
1:I:444:LEU:HD23	1:I:518:THR:OG1	2.18	0.44
1:J:35:PHE:CE1	1:J:321:ARG:NH1	2.84	0.44
1:J:434:THR:O	1:J:437:GLN:HG2	2.18	0.44
1:M:444:LEU:O	1:M:446:THR:N	2.50	0.44
1:L:94:LEU:HA	1:L:97:MSE:CE	2.37	0.44
1:Q:35:PHE:C	1:Q:37:ARG:N	2.71	0.44
1:S:444:LEU:O	1:S:447:TYR:N	2.50	0.44
1:U:35:PHE:CE1	1:U:321:ARG:NH1	2.85	0.44
1:W:80:TYR:OH	1:W:444:LEU:HD12	2.18	0.44
1:X:160:SER:O	1:X:161:ASN:ND2	2.46	0.44
1:U:301:VAL:HG23	1:U:439:ASN:HB3	2.00	0.44
1:U:301:VAL:HA	1:U:302:PRO:HD3	1.79	0.44
1:J:227:GLU:OE2	1:J:227:GLU:N	2.47	0.44
1:D:234:ILE:HG22	1:D:246:TYR:HB3	1.98	0.44
1:A:251:ILE:HG23	1:A:507:LEU:HD22	1.99	0.44
1:O:266:ILE:O	1:O:267:ALA:HB2	2.17	0.44
1:U:266:ILE:O	1:U:267:ALA:HB2	2.18	0.44
1:X:383:ASP:C	1:X:385:PRO:HD3	2.38	0.44
1:S:198:ILE:HG22	1:S:198:ILE:O	2.16	0.44
1:V:232:ALA:HB2	1:V:269:ARG:O	2.17	0.44
1:X:577:ILE:HG12	1:X:582:LYS:CG	2.45	0.44
1:F:383:ASP:C	1:F:385:PRO:CD	2.86	0.44
1:P:454:ALA:O	1:P:455:THR:C	2.56	0.44
1:M:310:VAL:HG22	1:N:40:GLN:HG2	1.98	0.44
1:C:9:GLU:HG3	1:C:12:LEU:H	1.81	0.44
2:Z:43:GLN:C	2:Z:45:ALA:N	2.70	0.44
1:H:238:PRO:HG3	1:H:263:PHE:CB	2.46	0.44
1:Q:155:HIS:CE1	1:Q:204:PRO:HB2	2.53	0.44
1:M:387:GLN:HG2	1:M:387:GLN:H	1.58	0.44
1:T:343:ARG:O	1:T:344:THR:HB	2.18	0.44
1:A:456:ALA:CB	1:A:509:ASP:OD2	2.65	0.44
1:K:456:ALA:CB	1:K:509:ASP:OD2	2.65	0.44
1:V:57:PHE:N	1:V:57:PHE:CD1	2.85	0.44
1:D:538:LEU:HB3	1:D:551:LEU:HD13	2.00	0.44
1:J:534:GLU:O	1:J:538:LEU:HD23	2.17	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:86:ALA:CB	1:C:515:GLU:HG3	2.47	0.44
1:L:590:GLN:O	1:L:594:VAL:HG23	2.17	0.44
1:U:77:ASP:HB2	1:U:523:SER:HB2	1.99	0.44
1:W:76:ILE:HD12	1:W:433:ASP:OD1	2.18	0.44
1:X:107:ALA:HA	1:X:146:ARG:HB3	2.00	0.44
1:U:399:GLN:OE1	1:X:396:GLU:O	2.35	0.44
1:B:434:THR:O	1:B:437:GLN:HG2	2.18	0.44
1:B:45:LEU:HD22	1:B:45:LEU:N	2.32	0.44
1:B:95:MSE:HE1	1:B:99:ARG:NH2	2.33	0.44
1:D:155:HIS:CE1	1:D:204:PRO:HB2	2.53	0.44
1:F:298:ILE:HA	1:F:299:PRO:HD3	1.82	0.44
1:I:45:LEU:HD21	1:I:328:ARG:HH21	1.82	0.44
1:L:35:PHE:CE2	1:L:324:LYS:NZ	2.80	0.44
1:L:528:LYS:HD2	1:L:560:LEU:HD21	1.99	0.44
1:M:528:LYS:NZ	1:M:560:LEU:HD21	2.32	0.44
1:M:78:VAL:CG1	1:M:79:LEU:H	2.31	0.44
1:O:38:VAL:HG21	1:O:324:LYS:HD2	1.99	0.44
1:N:420:VAL:HA	1:N:428:GLY:HA2	2.00	0.44
1:S:164:LEU:HA	1:S:307:TRP:HH2	1.83	0.44
1:S:165:MSE:HG3	1:S:307:TRP:CD2	2.51	0.44
1:U:444:LEU:O	1:U:447:TYR:N	2.49	0.44
1:U:47:GLN:CG	1:U:48:TYR:H	2.30	0.44
1:A:58:ASP:O	1:A:59:VAL:HB	2.14	0.44
1:V:407:ALA:HB1	1:W:334:MSE:HE1	1.99	0.44
1:O:451:ASP:C	1:O:453:LEU:N	2.70	0.44
1:O:451:ASP:O	1:O:453:LEU:N	2.51	0.44
1:P:451:ASP:C	1:P:453:LEU:N	2.71	0.44
1:U:451:ASP:C	1:U:453:LEU:N	2.70	0.44
1:C:273:ARG:NH2	1:C:453:LEU:HD11	2.33	0.44
1:L:248:LYS:HZ1	1:L:513:ARG:HH12	1.64	0.44
1:H:219:ILE:HD13	1:H:282:THR:HG22	2.00	0.44
1:J:219:ILE:HD13	1:J:282:THR:HG22	2.00	0.44
1:M:236:GLN:HG3	1:M:265:LYS:HG2	1.99	0.44
1:X:236:GLN:HG3	1:X:265:LYS:HG2	2.00	0.44
1:X:554:LEU:O	1:X:557:PHE:HB3	2.18	0.44
1:X:454:ALA:O	1:X:455:THR:C	2.56	0.44
1:G:383:ASP:C	1:G:385:PRO:CD	2.86	0.44
1:M:577:ILE:HG12	1:M:582:LYS:CG	2.45	0.44
1:D:352:TRP:CG	1:E:376:ARG:HB2	2.53	0.44
1:C:293:ILE:HD13	1:C:294:ALA:N	2.31	0.44
1:D:9:GLU:HG3	1:D:12:LEU:H	1.81	0.44
1:I:9:GLU:HG3	1:I:12:LEU:H	1.81	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:387:GLN:O	1:V:389:LEU:HG	2.18	0.44
1:V:293:ILE:HG12	1:V:294:ALA:H	1.82	0.44
1:V:155:HIS:CE1	1:V:204:PRO:HB2	2.52	0.44
1:A:348:LYS:HE2	1:L:369:TYR:O	2.18	0.44
1:R:155:HIS:CE1	1:R:204:PRO:HB2	2.52	0.44
1:W:155:HIS:CE1	1:W:204:PRO:HB2	2.52	0.44
1:J:456:ALA:CB	1:J:509:ASP:OD2	2.65	0.44
2:Y:37:VAL:C	2:Y:39:PRO:HD3	2.38	0.44
1:A:451:ASP:O	1:A:456:ALA:N	2.41	0.44
1:E:534:GLU:O	1:E:538:LEU:HD23	2.17	0.44
1:A:444:LEU:HD23	1:A:518:THR:OG1	2.18	0.44
1:C:45:LEU:N	1:C:45:LEU:HD22	2.32	0.44
1:D:47:GLN:CG	1:D:47:GLN:O	2.65	0.44
1:D:94:LEU:HA	1:D:97:MSE:CE	2.37	0.44
1:E:413:LYS:HB3	1:E:413:LYS:HE2	1.74	0.44
1:E:95:MSE:HE1	1:E:99:ARG:NH2	2.33	0.44
1:F:413:LYS:HB3	1:F:413:LYS:HE2	1.74	0.44
1:F:95:MSE:HE1	1:F:99:ARG:NH2	2.33	0.44
1:G:443:ASP:C	1:G:446:THR:HG22	2.38	0.44
1:H:444:LEU:C	1:H:446:THR:H	2.19	0.44
1:I:443:ASP:C	1:I:446:THR:HG22	2.38	0.44
1:J:47:GLN:CG	1:J:47:GLN:O	2.65	0.44
1:J:444:LEU:HD23	1:J:518:THR:OG1	2.18	0.44
1:K:434:THR:O	1:K:437:GLN:HG2	2.18	0.44
1:L:15:PHE:HE2	1:L:19:TRP:HE1	1.66	0.44
1:O:80:TYR:OH	1:O:444:LEU:HD12	2.18	0.44
2:Z:28:VAL:HG11	2:Z:97:ALA:HA	1.88	0.44
1:N:33:LEU:HD12	1:N:34:PHE:N	2.33	0.44
1:N:34:PHE:O	1:N:37:ARG:HB2	2.17	0.44
1:V:100:THR:HG22	1:V:138:THR:HG22	2.00	0.44
1:S:510:ILE:O	1:S:513:ARG:HD2	2.18	0.44
1:M:248:LYS:HE2	1:M:513:ARG:HH12	1.83	0.44
1:O:158:TRP:HD1	1:O:158:TRP:H	1.64	0.44
1:V:71:MSE:CE	1:V:115:VAL:HB	2.48	0.44
1:U:158:TRP:HD1	1:U:158:TRP:H	1.66	0.44
1:S:330:ARG:O	1:S:334:MSE:HB2	2.17	0.44
1:R:71:MSE:CE	1:R:115:VAL:HB	2.48	0.44
1:W:273:ARG:HH22	1:W:453:LEU:CD2	2.30	0.44
1:Q:135:GLN:OE1	1:R:273:ARG:HG2	2.18	0.44
1:G:282:THR:HG23	1:G:287:LEU:CD1	2.43	0.44
1:Q:236:GLN:HG3	1:Q:265:LYS:HG2	2.00	0.44
1:P:236:GLN:HG3	1:P:265:LYS:HG2	2.00	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:Y:143:THR:N	2:Y:154:GLU:HA	2.32	0.44
1:V:236:GLN:HG3	1:V:265:LYS:HG2	1.99	0.44
1:P:24:GLU:HG3	1:P:313:LYS:HE2	2.00	0.44
1:S:66:LYS:HZ3	1:S:420:VAL:HG21	1.82	0.44
1:J:383:ASP:C	1:J:385:PRO:CD	2.86	0.44
1:G:95:MSE:HE1	1:G:99:ARG:NH2	2.33	0.44
1:E:232:ALA:N	1:E:269:ARG:O	2.50	0.44
1:I:534:GLU:O	1:I:538:LEU:HD23	2.17	0.44
1:M:190:LYS:HA	1:M:190:LYS:HE3	2.00	0.44
1:R:372:TYR:CE2	1:X:348:LYS:HB2	2.53	0.44
1:N:127:ARG:HG2	1:N:147:GLU:HB2	2.00	0.44
3:P:718:HOH:O	1:Q:438:LEU:HD22	2.15	0.44
1:S:352:TRP:O	1:S:355:GLN:HG2	2.18	0.44
1:B:45:LEU:HD21	1:B:328:ARG:HH21	1.82	0.44
1:B:66:LYS:O	1:B:70:GLU:HG3	2.18	0.44
1:D:334:MSE:HE3	1:F:404:MSE:HE3	1.99	0.44
1:D:444:LEU:HD23	1:D:518:THR:OG1	2.18	0.44
1:E:35:PHE:HZ	1:E:321:ARG:NE	2.12	0.44
1:E:35:PHE:HE1	1:E:321:ARG:NH1	2.13	0.44
1:F:78:VAL:CG2	1:F:444:LEU:HD21	2.46	0.44
1:H:35:PHE:CE1	1:H:321:ARG:NH1	2.84	0.44
1:H:45:LEU:HD22	1:H:45:LEU:N	2.32	0.44
1:I:49:THR:O	1:I:50:THR:C	2.56	0.44
1:J:443:ASP:C	1:J:446:THR:HG22	2.38	0.44
1:L:45:LEU:N	1:L:45:LEU:HD22	2.32	0.44
1:N:101:ASP:HB3	1:N:138:THR:HG21	1.99	0.44
1:P:34:PHE:O	1:P:37:ARG:HB2	2.17	0.44
1:Q:33:LEU:HD12	1:Q:34:PHE:N	2.32	0.44
1:R:26:ARG:O	1:R:27:ARG:C	2.56	0.44
1:T:35:PHE:CE1	1:T:321:ARG:NH1	2.85	0.44
1:U:78:VAL:CG1	1:U:79:LEU:H	2.31	0.44
1:V:37:ARG:C	1:V:39:SER:H	2.20	0.44
1:V:82:PRO:HB2	1:V:83:LYS:H	1.62	0.44
1:X:71:MSE:CE	1:X:115:VAL:HB	2.48	0.44
1:U:158:TRP:HD1	1:U:158:TRP:N	2.11	0.44
1:W:451:ASP:C	1:W:453:LEU:N	2.70	0.44
1:I:273:ARG:NH2	1:I:453:LEU:HD11	2.32	0.44
1:C:248:LYS:HZ1	1:C:513:ARG:HH12	1.64	0.44
1:O:236:GLN:H	1:O:265:LYS:HB2	1.83	0.44
1:R:236:GLN:HG3	1:R:265:LYS:HG2	2.00	0.44
1:N:236:GLN:HG3	1:N:265:LYS:HG2	2.00	0.44
1:P:198:ILE:HA	1:P:199:PRO:HD3	1.70	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:266:ILE:O	1:X:267:ALA:HB2	2.17	0.44
1:K:334:MSE:HE3	1:L:404:MSE:HE3	2.00	0.44
1:H:383:ASP:C	1:H:385:PRO:CD	2.86	0.44
1:U:293:ILE:HG12	1:U:294:ALA:H	1.83	0.44
1:K:155:HIS:CE1	1:K:204:PRO:HB2	2.53	0.44
1:D:542:THR:HA	1:D:543:PRO:HD3	1.82	0.44
1:Q:584:PRO:CG	1:Q:593:LEU:HD12	2.48	0.44
1:M:390:ALA:CB	1:N:387:GLN:HB3	2.47	0.44
1:B:177:HIS:HE1	1:B:221:GLU:OE1	2.00	0.44
1:R:57:PHE:CD1	1:R:57:PHE:N	2.86	0.44
1:S:399:GLN:OE1	1:U:396:GLU:O	2.36	0.44
1:M:589:GLU:HA	1:M:592:TRP:HB2	1.99	0.44
1:S:77:ASP:HB2	1:S:523:SER:HB2	2.00	0.44
1:R:76:ILE:HD12	1:R:433:ASP:OD1	2.17	0.44
1:U:589:GLU:HA	1:U:592:TRP:HB2	1.99	0.44
1:N:399:GLN:OE1	1:V:396:GLU:O	2.36	0.44
1:A:79:LEU:N	1:A:519:ASP:O	2.51	0.44
1:B:155:HIS:CE1	1:B:204:PRO:HB2	2.53	0.44
1:D:15:PHE:HE2	1:D:19:TRP:HE1	1.66	0.44
1:E:15:PHE:HE2	1:E:19:TRP:HE1	1.66	0.44
1:E:49:THR:O	1:E:50:THR:C	2.56	0.44
1:E:79:LEU:N	1:E:519:ASP:O	2.51	0.44
1:F:434:THR:O	1:F:437:GLN:HG2	2.17	0.44
1:G:66:LYS:O	1:G:70:GLU:HG3	2.18	0.44
1:H:94:LEU:HA	1:H:97:MSE:CE	2.37	0.44
1:H:561:ASP:CB	1:I:89:ASP:HA	2.41	0.44
1:L:58:ASP:O	1:L:59:VAL:HB	2.14	0.44
1:M:316:TYR:O	1:M:321:ARG:NH1	2.51	0.44
1:M:344:THR:CG2	1:M:344:THR:O	2.66	0.44
1:M:420:VAL:HA	1:M:428:GLY:HA2	2.00	0.44
1:Q:344:THR:O	1:Q:344:THR:CG2	2.66	0.44
1:K:528:LYS:HD2	1:K:560:LEU:HD21	1.99	0.44
1:L:443:ASP:C	1:L:446:THR:HG22	2.38	0.44
1:L:79:LEU:N	1:L:519:ASP:O	2.51	0.44
1:N:437:GLN:HA	1:N:440:MSE:HB2	1.99	0.44
1:P:101:ASP:HB3	1:P:138:THR:HG21	1.99	0.44
1:P:344:THR:O	1:P:344:THR:CG2	2.66	0.44
1:Q:101:ASP:HB3	1:Q:138:THR:HG21	2.00	0.44
1:S:29:ALA:O	1:S:33:LEU:HG	2.18	0.44
1:S:47:GLN:N	1:S:48:TYR:HD2	2.15	0.44
1:T:127:ARG:HG2	1:T:147:GLU:HB2	1.98	0.44
1:U:38:VAL:HG21	1:U:324:LYS:HD2	1.98	0.44

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:X:100:THR:HG22	1:X:138:THR:HG22	1.99	0.44
1:P:301:VAL:HA	1:P:302:PRO:HD3	1.79	0.44
1:U:248:LYS:CD	1:U:248:LYS:H	2.17	0.44
1:V:451:ASP:C	1:V:453:LEU:N	2.71	0.44
1:V:511:ARG:HA	1:V:513:ARG:CD	2.45	0.44
1:S:409:THR:O	1:S:413:LYS:HG2	2.18	0.44
1:Q:334:MSE:SE	1:Q:405:LEU:HD11	2.67	0.44
1:K:251:ILE:HG23	1:K:507:LEU:HD22	1.98	0.44
1:P:265:LYS:O	1:P:266:ILE:HG12	2.18	0.44
1:X:265:LYS:O	1:X:266:ILE:HG12	2.17	0.44
1:V:577:ILE:HG12	1:V:582:LYS:CG	2.44	0.44
1:U:575:GLN:O	1:U:579:MSE:CG	2.65	0.44
1:G:177:HIS:HE1	1:G:221:GLU:OE1	2.00	0.44
1:L:383:ASP:C	1:L:385:PRO:CD	2.86	0.44
1:L:238:PRO:HG3	1:L:263:PHE:CB	2.46	0.44
1:T:344:THR:CG2	1:T:344:THR:O	2.66	0.44
1:U:387:GLN:O	1:U:389:LEU:HG	2.18	0.44
1:X:322:LEU:H	1:X:322:LEU:HD22	1.83	0.44
1:X:589:GLU:HA	1:X:592:TRP:HB2	1.99	0.44
1:R:245:SER:HG	1:R:247:PHE:HE1	1.61	0.44
1:T:198:ILE:O	1:T:198:ILE:HG22	2.16	0.44
1:R:107:ALA:HA	1:R:146:ARG:HB3	1.99	0.44
1:X:371:TYR:HE2	1:X:373:LEU:HD21	1.82	0.44
1:A:71:MSE:HE3	1:A:115:VAL:HB	2.00	0.43
1:B:71:MSE:HE3	1:B:115:VAL:HB	2.00	0.43
1:C:434:THR:O	1:C:437:GLN:HG2	2.18	0.43
1:D:99:ARG:NH1	1:D:530:GLN:HE21	2.13	0.43
1:E:78:VAL:HG21	1:E:444:LEU:CD1	2.21	0.43
1:G:24:GLU:CD	1:G:24:GLU:N	2.71	0.43
1:H:15:PHE:HE2	1:H:19:TRP:HE1	1.66	0.43
1:H:26:ARG:NH2	1:H:30:LYS:HB2	2.28	0.43
1:J:79:LEU:N	1:J:519:ASP:O	2.51	0.43
1:J:95:MSE:HE1	1:J:99:ARG:NH2	2.33	0.43
1:M:33:LEU:HD12	1:M:34:PHE:N	2.33	0.43
1:N:35:PHE:C	1:N:37:ARG:N	2.71	0.43
1:P:458:ARG:HA	1:P:458:ARG:HD3	1.83	0.43
1:R:34:PHE:O	1:R:37:ARG:HB2	2.18	0.43
1:T:35:PHE:HZ	1:T:321:ARG:NE	2.14	0.43
1:U:47:GLN:N	1:U:48:TYR:HD2	2.15	0.43
1:W:123:VAL:HG13	1:W:304:PHE:CE1	2.53	0.43
1:X:343:ARG:H	1:X:343:ARG:HG2	1.53	0.43
1:M:451:ASP:C	1:M:453:LEU:N	2.71	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:158:TRP:H	1:W:158:TRP:HD1	1.65	0.43
1:P:248:LYS:HE2	1:P:513:ARG:HH12	1.83	0.43
1:X:47:GLN:CG	1:X:48:TYR:H	2.28	0.43
1:D:273:ARG:O	1:D:274:ARG:HB3	2.17	0.43
1:H:273:ARG:NH2	1:H:453:LEU:HD11	2.33	0.43
1:O:235:TYR:OH	1:O:252:LYS:NZ	2.50	0.43
1:L:66:LYS:O	1:L:70:GLU:HG3	2.18	0.43
1:Q:575:GLN:O	1:Q:579:MSE:CG	2.65	0.43
1:E:383:ASP:C	1:E:385:PRO:CD	2.86	0.43
1:P:575:GLN:O	1:P:579:MSE:CG	2.64	0.43
1:P:567:MSE:HE2	1:Q:554:LEU:HD22	2.00	0.43
1:S:390:ALA:CB	1:U:387:GLN:CB	2.96	0.43
1:E:538:LEU:HB3	1:E:551:LEU:HD13	2.00	0.43
1:A:127:ARG:HA	1:A:299:PRO:O	2.18	0.43
1:N:190:LYS:HE3	1:N:190:LYS:HA	2.00	0.43
1:S:245:SER:HG	1:S:247:PHE:HE1	1.65	0.43
1:Q:349:PRO:HG3	1:Q:391:TYR:CE1	2.53	0.43
1:V:179:MSE:O	1:V:217:ILE:HD12	2.18	0.43
3:S:718:HOH:O	1:T:438:LEU:HD22	2.17	0.43
1:C:155:HIS:CE1	1:C:204:PRO:HB2	2.53	0.43
1:C:45:LEU:HD21	1:C:328:ARG:HH21	1.82	0.43
1:C:528:LYS:HD2	1:C:560:LEU:HD21	1.99	0.43
1:D:35:PHE:CE1	1:D:321:ARG:NH1	2.84	0.43
1:D:443:ASP:C	1:D:446:THR:HG22	2.38	0.43
1:D:79:LEU:N	1:D:519:ASP:O	2.51	0.43
1:E:155:HIS:CE1	1:E:204:PRO:HB2	2.53	0.43
1:F:443:ASP:C	1:F:446:THR:HG22	2.38	0.43
1:F:82:PRO:HB2	1:F:83:LYS:H	1.58	0.43
1:G:155:HIS:CE1	1:G:204:PRO:HB2	2.53	0.43
1:G:94:LEU:HA	1:G:97:MSE:CE	2.37	0.43
1:H:155:HIS:CE1	1:H:204:PRO:HB2	2.53	0.43
1:H:49:THR:O	1:H:50:THR:C	2.56	0.43
1:H:82:PRO:HB2	1:H:83:LYS:H	1.58	0.43
1:I:95:MSE:HE1	1:I:99:ARG:NH2	2.33	0.43
1:J:79:LEU:HD23	1:J:521:GLY:HA3	2.00	0.43
1:K:444:LEU:HD23	1:K:518:THR:OG1	2.18	0.43
1:K:79:LEU:N	1:K:519:ASP:O	2.51	0.43
1:K:66:LYS:O	1:K:70:GLU:HG3	2.18	0.43
1:L:298:ILE:HA	1:L:299:PRO:HD3	1.82	0.43
1:L:444:LEU:HD23	1:L:518:THR:OG1	2.18	0.43
1:L:79:LEU:HD23	1:L:521:GLY:HA3	2.00	0.43
1:S:35:PHE:CE1	1:S:321:ARG:NH1	2.85	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:V:78:VAL:CG1	1:V:79:LEU:H	2.29	0.43
1:X:80:TYR:OH	1:X:444:LEU:HD12	2.18	0.43
1:V:274:ARG:O	1:V:275:ARG:HD2	2.18	0.43
1:N:228:LYS:CE	1:N:228:LYS:HA	2.42	0.43
1:X:451:ASP:C	1:X:453:LEU:N	2.71	0.43
1:B:273:ARG:NH2	1:B:453:LEU:HD11	2.32	0.43
1:C:266:ILE:O	1:C:267:ALA:HB2	2.19	0.43
1:E:273:ARG:NH2	1:E:453:LEU:HD11	2.33	0.43
1:F:266:ILE:O	1:F:267:ALA:HB2	2.19	0.43
1:L:266:ILE:O	1:L:267:ALA:HB2	2.18	0.43
1:B:198:ILE:HA	1:B:199:PRO:HD3	1.64	0.43
1:I:219:ILE:HD13	1:I:282:THR:HG22	2.00	0.43
1:Q:266:ILE:O	1:Q:267:ALA:HB2	2.18	0.43
1:W:265:LYS:O	1:W:266:ILE:HG12	2.18	0.43
1:K:219:ILE:HD13	1:K:282:THR:HG22	2.00	0.43
1:K:282:THR:HG23	1:K:287:LEU:CD1	2.43	0.43
1:M:265:LYS:O	1:M:266:ILE:HG12	2.18	0.43
1:U:198:ILE:O	1:U:198:ILE:HG22	2.17	0.43
1:O:454:ALA:O	1:O:455:THR:C	2.56	0.43
1:A:404:MSE:HE1	1:L:334:MSE:SE	2.67	0.43
1:I:383:ASP:C	1:I:385:PRO:CD	2.86	0.43
1:K:383:ASP:C	1:K:385:PRO:HD3	2.39	0.43
1:F:383:ASP:C	1:F:385:PRO:HD3	2.39	0.43
1:L:583:LYS:HA	1:L:584:PRO:HD3	1.85	0.43
1:O:276:VAL:CG2	1:O:293:ILE:HG23	2.47	0.43
1:L:155:HIS:CE1	1:L:204:PRO:HB2	2.53	0.43
1:U:276:VAL:CG2	1:U:293:ILE:HG23	2.47	0.43
1:O:378:ASP:O	1:O:381:SER:O	2.36	0.43
1:J:262:GLY:O	1:J:263:PHE:HB3	2.17	0.43
1:F:542:THR:HA	1:F:543:PRO:HD3	1.82	0.43
1:W:584:PRO:CG	1:W:593:LEU:HD12	2.48	0.43
1:P:584:PRO:CG	1:P:593:LEU:HD12	2.47	0.43
1:C:177:HIS:HE1	1:C:221:GLU:OE1	2.00	0.43
1:V:429:GLN:O	1:V:429:GLN:HG2	2.18	0.43
1:L:538:LEU:HB3	1:L:551:LEU:HD13	2.00	0.43
1:B:534:GLU:O	1:B:538:LEU:HD23	2.17	0.43
1:C:534:GLU:O	1:C:538:LEU:HD23	2.17	0.43
1:H:391:TYR:CD2	1:H:391:TYR:N	2.87	0.43
1:N:76:ILE:HD12	1:N:433:ASP:OD1	2.18	0.43
1:A:528:LYS:HD2	1:A:560:LEU:HD21	1.99	0.43
1:C:71:MSE:HE3	1:C:115:VAL:HB	2.01	0.43
1:I:155:HIS:CE1	1:I:204:PRO:HB2	2.53	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:I:47:GLN:CG	1:I:47:GLN:O	2.65	0.43
1:J:15:PHE:HE2	1:J:19:TRP:HE1	1.66	0.43
1:K:71:MSE:HE3	1:K:115:VAL:HB	2.01	0.43
1:L:127:ARG:HA	1:L:299:PRO:O	2.18	0.43
1:M:340:ILE:O	1:M:344:THR:HG21	2.19	0.43
1:N:24:GLU:O	1:N:26:ARG:N	2.50	0.43
1:Q:53:TYR:OH	1:R:329:LEU:HD21	2.18	0.43
1:Q:92:ASP:N	1:Q:92:ASP:OD2	2.52	0.43
1:R:92:ASP:N	1:R:92:ASP:OD2	2.51	0.43
1:S:34:PHE:O	1:S:37:ARG:HB2	2.19	0.43
1:T:123:VAL:HG13	1:T:304:PHE:CE1	2.52	0.43
1:W:344:THR:CG2	1:W:344:THR:O	2.66	0.43
1:I:139:SER:CB	1:I:455:THR:CG2	2.80	0.43
1:V:273:ARG:HH22	1:V:453:LEU:CD2	2.29	0.43
1:M:71:MSE:HE3	1:M:115:VAL:HB	1.99	0.43
1:K:266:ILE:O	1:K:267:ALA:HB2	2.19	0.43
1:U:273:ARG:HH22	1:U:453:LEU:CD2	2.32	0.43
1:D:266:ILE:O	1:D:267:ALA:HB2	2.19	0.43
1:X:24:GLU:HG3	1:X:313:LYS:HE2	2.01	0.43
1:V:236:GLN:H	1:V:265:LYS:HB2	1.83	0.43
1:T:236:GLN:HG3	1:T:265:LYS:HG2	2.00	0.43
1:R:198:ILE:O	1:R:198:ILE:HG22	2.17	0.43
1:S:232:ALA:HB2	1:S:269:ARG:O	2.18	0.43
1:J:383:ASP:C	1:J:385:PRO:HD3	2.39	0.43
1:B:383:ASP:C	1:B:385:PRO:CD	2.86	0.43
1:C:383:ASP:C	1:C:385:PRO:HD3	2.39	0.43
1:I:262:GLY:O	1:I:263:PHE:HB3	2.17	0.43
1:U:155:HIS:CE1	1:U:204:PRO:HB2	2.53	0.43
1:O:387:GLN:O	1:O:389:LEU:HG	2.19	0.43
1:T:589:GLU:HA	1:T:592:TRP:HB2	2.00	0.43
1:P:174:THR:N	3:P:705:HOH:O	2.51	0.43
1:T:77:ASP:HB2	1:T:523:SER:HB2	1.99	0.43
1:M:174:THR:N	3:M:705:HOH:O	2.50	0.43
1:A:155:HIS:CE1	1:A:204:PRO:HB2	2.53	0.43
1:B:79:LEU:N	1:B:519:ASP:O	2.51	0.43
1:C:437:GLN:HA	1:C:440:MSE:HB2	2.01	0.43
1:D:24:GLU:N	1:D:24:GLU:CD	2.71	0.43
1:D:79:LEU:HD23	1:D:521:GLY:HA3	2.00	0.43
1:F:24:GLU:N	1:F:24:GLU:CD	2.71	0.43
1:F:127:ARG:HA	1:F:299:PRO:O	2.18	0.43
1:G:34:PHE:CE1	1:G:324:LYS:NZ	2.72	0.43
1:H:444:LEU:HD23	1:H:518:THR:OG1	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:79:LEU:HD23	1:H:521:GLY:HA3	2.00	0.43
1:I:437:GLN:HA	1:I:440:MSE:HB2	2.00	0.43
1:I:79:LEU:N	1:I:519:ASP:O	2.51	0.43
1:K:35:PHE:HE2	1:K:324:LYS:NZ	2.08	0.43
1:L:35:PHE:CZ	1:L:321:ARG:CZ	3.02	0.43
1:Q:164:LEU:HD22	1:Q:169:ASP:OD1	2.17	0.43
1:S:329:LEU:HD21	1:U:53:TYR:OH	2.17	0.43
1:S:35:PHE:C	1:S:37:ARG:N	2.71	0.43
1:S:451:ASP:C	1:S:453:LEU:N	2.72	0.43
1:O:228:LYS:HA	1:O:228:LYS:CE	2.43	0.43
1:I:266:ILE:O	1:I:267:ALA:HB2	2.19	0.43
1:C:227:GLU:OE2	1:C:227:GLU:N	2.47	0.43
1:E:236:GLN:HE21	1:E:265:LYS:HZ3	1.65	0.43
1:F:273:ARG:NH2	1:F:453:LEU:HD11	2.32	0.43
1:V:352:TRP:CD1	1:W:376:ARG:HB2	2.53	0.43
1:V:266:ILE:O	1:V:267:ALA:HB2	2.18	0.43
1:R:376:ARG:HB2	1:X:352:TRP:CD1	2.54	0.43
1:R:383:ASP:C	1:R:385:PRO:HD3	2.39	0.43
1:G:383:ASP:C	1:G:385:PRO:HD3	2.39	0.43
1:K:383:ASP:C	1:K:385:PRO:CD	2.86	0.43
1:A:99:ARG:NH1	1:A:530:GLN:HE21	2.13	0.43
1:A:95:MSE:HE1	1:A:99:ARG:NH2	2.33	0.43
1:B:383:ASP:C	1:B:385:PRO:HD3	2.39	0.43
1:P:420:VAL:HA	1:P:428:GLY:HA2	2.00	0.43
1:D:383:ASP:C	1:D:385:PRO:CD	2.86	0.43
1:V:387:GLN:HA	1:V:388:PRO:HD3	1.92	0.43
1:S:293:ILE:HG12	1:S:294:ALA:H	1.83	0.43
1:O:71:MSE:CE	1:O:115:VAL:HB	2.48	0.43
1:I:229:LYS:HD2	1:I:270:GLN:HG3	2.01	0.43
1:L:229:LYS:HD2	1:L:270:GLN:HG3	2.01	0.43
1:R:344:THR:CG2	1:R:344:THR:O	2.67	0.43
1:Q:387:GLN:CB	1:R:390:ALA:HB2	2.49	0.43
1:J:538:LEU:HB3	1:J:551:LEU:HD13	2.00	0.43
1:K:343:ARG:HG2	1:K:343:ARG:H	1.52	0.43
1:P:190:LYS:HE3	1:P:190:LYS:HA	2.00	0.43
1:I:391:TYR:N	1:I:391:TYR:CD2	2.87	0.43
1:L:391:TYR:CD2	1:L:391:TYR:N	2.86	0.43
1:A:343:ARG:NH2	2:Y:134:ARG:HD3	2.33	0.43
1:O:245:SER:HG	1:O:247:PHE:HE1	1.62	0.43
1:A:437:GLN:HA	1:A:440:MSE:HB2	2.01	0.43
1:A:66:LYS:O	1:A:70:GLU:HG3	2.18	0.43
1:B:79:LEU:HD23	1:B:521:GLY:HA3	2.00	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:66:LYS:O	1:C:70:GLU:HG3	2.18	0.43
1:D:71:MSE:HE3	1:D:115:VAL:HB	2.00	0.43
1:E:127:ARG:HA	1:E:299:PRO:O	2.18	0.43
1:E:43:ASP:OD2	1:E:43:ASP:N	2.52	0.43
1:E:82:PRO:HB2	1:E:83:LYS:H	1.58	0.43
1:I:43:ASP:N	1:I:43:ASP:OD2	2.52	0.43
1:I:78:VAL:CG2	1:I:444:LEU:HD21	2.46	0.43
1:J:155:HIS:CE1	1:J:204:PRO:HB2	2.53	0.43
1:M:123:VAL:CG1	1:M:304:PHE:CE1	3.00	0.43
1:Q:343:ARG:H	1:Q:343:ARG:HG2	1.53	0.43
1:L:95:MSE:HE1	1:L:99:ARG:NH2	2.33	0.43
1:N:458:ARG:HD3	1:N:458:ARG:HA	1.82	0.43
1:P:92:ASP:N	1:P:92:ASP:OD2	2.51	0.43
1:Q:15:PHE:CE2	1:Q:19:TRP:NE1	2.86	0.43
1:T:444:LEU:O	1:T:446:THR:N	2.50	0.43
1:U:26:ARG:O	1:U:27:ARG:C	2.56	0.43
1:V:340:ILE:O	1:V:344:THR:HG21	2.18	0.43
1:V:437:GLN:HA	1:V:440:MSE:HB2	2.00	0.43
1:V:444:LEU:O	1:V:446:THR:N	2.51	0.43
1:V:80:TYR:OH	1:V:444:LEU:HD12	2.18	0.43
1:V:92:ASP:N	1:V:92:ASP:OD2	2.51	0.43
1:X:123:VAL:HG13	1:X:304:PHE:CE1	2.53	0.43
1:X:35:PHE:CE1	1:X:321:ARG:NH1	2.85	0.43
1:X:440:MSE:O	1:X:443:ASP:HB3	2.18	0.43
1:N:15:PHE:CE2	1:N:19:TRP:NE1	2.87	0.43
1:X:510:ILE:O	1:X:513:ARG:HD2	2.18	0.43
1:O:334:MSE:CG	1:P:404:MSE:HE1	2.48	0.43
1:W:413:LYS:HB3	1:W:413:LYS:HE2	1.87	0.43
1:G:273:ARG:NH2	1:G:453:LEU:HD11	2.33	0.43
1:B:528:LYS:HD2	1:B:560:LEU:HD21	1.99	0.43
1:C:82:PRO:HB2	1:C:83:LYS:H	1.58	0.43
1:H:246:TYR:HD2	1:H:511:ARG:CB	2.28	0.43
1:H:248:LYS:HZ2	1:H:251:ILE:HD12	1.84	0.43
1:A:273:ARG:NH2	1:A:453:LEU:HD11	2.33	0.43
1:N:451:ASP:C	1:N:453:LEU:N	2.71	0.43
1:N:266:ILE:O	1:N:267:ALA:HB2	2.19	0.43
1:U:236:GLN:H	1:U:265:LYS:HB2	1.83	0.43
1:M:280:ILE:HG22	1:M:287:LEU:HD13	2.00	0.43
1:U:232:ALA:HB2	1:U:269:ARG:O	2.18	0.43
1:D:383:ASP:C	1:D:385:PRO:HD3	2.39	0.43
1:W:384:LEU:HD22	1:W:384:LEU:N	2.29	0.43
1:I:378:ASP:O	1:I:381:SER:O	2.37	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:O:40:GLN:HB2	1:O:40:GLN:HE21	1.57	0.43
1:T:343:ARG:H	1:T:343:ARG:HG2	1.58	0.43
1:K:427:GLY:C	1:K:429:GLN:N	2.70	0.43
1:H:343:ARG:H	1:H:343:ARG:HG2	1.52	0.43
1:M:576:LEU:HD13	1:N:567:MSE:SE	2.68	0.43
1:O:369:TYR:HA	1:O:370:PRO:HD3	1.83	0.43
1:R:270:GLN:HA	1:R:270:GLN:OE1	2.18	0.43
1:A:252:LYS:O	1:A:252:LYS:HE3	2.19	0.43
1:X:198:ILE:HG22	1:X:198:ILE:O	2.18	0.43
1:R:190:LYS:HE3	1:R:190:LYS:HA	1.99	0.43
1:E:391:TYR:CD2	1:E:391:TYR:N	2.87	0.43
1:A:391:TYR:N	1:A:391:TYR:CD2	2.87	0.43
1:W:589:GLU:HA	1:W:592:TRP:HB2	2.00	0.43
1:S:371:TYR:HE2	1:S:373:LEU:HD21	1.83	0.43
1:A:24:GLU:N	1:A:24:GLU:CD	2.71	0.43
1:A:434:THR:O	1:A:437:GLN:HG2	2.18	0.43
1:A:49:THR:O	1:A:50:THR:C	2.56	0.43
1:B:78:VAL:CG2	1:B:444:LEU:HD21	2.46	0.43
1:B:49:THR:O	1:B:50:THR:C	2.56	0.43
1:C:443:ASP:C	1:C:446:THR:HG22	2.38	0.43
1:D:127:ARG:HA	1:D:299:PRO:O	2.18	0.43
1:D:95:MSE:HE1	1:D:99:ARG:NH2	2.33	0.43
1:E:443:ASP:C	1:E:446:THR:HG22	2.38	0.43
1:F:155:HIS:CE1	1:F:204:PRO:HB2	2.53	0.43
1:F:35:PHE:CZ	1:F:321:ARG:CZ	3.02	0.43
1:I:24:GLU:CD	1:I:24:GLU:N	2.71	0.43
1:I:71:MSE:HE3	1:I:115:VAL:HB	2.00	0.43
1:J:47:GLN:CD	1:J:47:GLN:N	2.72	0.43
1:K:24:GLU:N	1:K:24:GLU:CD	2.71	0.43
1:L:71:MSE:HE3	1:L:115:VAL:HB	2.00	0.43
1:N:26:ARG:HG3	1:N:27:ARG:N	2.32	0.43
1:S:47:GLN:H	1:S:48:TYR:HD2	1.65	0.43
1:T:100:THR:HG22	1:T:138:THR:HG22	2.00	0.43
1:T:24:GLU:O	1:T:26:ARG:N	2.50	0.43
1:T:78:VAL:CG1	1:T:79:LEU:H	2.30	0.43
1:U:24:GLU:O	1:U:26:ARG:N	2.50	0.43
1:T:510:ILE:O	1:T:513:ARG:HD2	2.18	0.43
1:T:413:LYS:HE2	1:T:413:LYS:HB3	1.85	0.43
1:V:510:ILE:O	1:V:513:ARG:HD2	2.19	0.43
1:X:301:VAL:HG23	1:X:439:ASN:HB3	2.01	0.43
1:R:334:MSE:SE	1:R:405:LEU:HD11	2.69	0.43
1:G:266:ILE:O	1:G:267:ALA:HB2	2.19	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:219:ILE:HD13	1:F:282:THR:HG22	2.00	0.43
1:B:219:ILE:HD13	1:B:282:THR:HG22	2.00	0.43
1:I:198:ILE:HA	1:I:199:PRO:HD3	1.64	0.43
1:Q:265:LYS:O	1:Q:266:ILE:HG12	2.18	0.43
1:R:265:LYS:O	1:R:266:ILE:HG12	2.18	0.43
1:N:352:TRP:CD2	1:V:376:ARG:HB2	2.53	0.43
1:D:567:MSE:SE	1:F:576:LEU:HD13	2.68	0.43
1:P:542:THR:HA	1:P:543:PRO:HD3	1.88	0.43
1:A:383:ASP:C	1:A:385:PRO:HD3	2.39	0.43
1:I:127:ARG:HA	1:I:299:PRO:O	2.18	0.43
1:P:380:ASN:O	1:P:381:SER:CB	2.66	0.43
1:D:598:GLN:O	1:D:601:GLN:HB2	2.19	0.43
1:P:293:ILE:HG12	1:P:294:ALA:H	1.82	0.43
1:X:420:VAL:HA	1:X:428:GLY:HA2	2.00	0.43
1:S:57:PHE:N	1:S:57:PHE:CD1	2.87	0.43
1:H:538:LEU:HB3	1:H:551:LEU:HD13	2.00	0.43
1:K:391:TYR:CD2	1:K:391:TYR:N	2.87	0.43
1:D:350:PHE:HE1	1:E:363:TYR:HE1	1.67	0.43
1:M:345:PRO:HB2	1:M:392:TYR:CE1	2.54	0.43
1:V:589:GLU:HA	1:V:592:TRP:HB2	2.00	0.43
1:A:15:PHE:HE2	1:A:19:TRP:HE1	1.66	0.43
1:A:35:PHE:CZ	1:A:321:ARG:CZ	3.02	0.43
1:A:43:ASP:OD2	1:A:43:ASP:N	2.52	0.43
1:B:212:LEU:HD12	1:B:212:LEU:N	2.34	0.43
1:B:37:ARG:HA	1:B:37:ARG:HD2	1.79	0.43
1:B:437:GLN:HA	1:B:440:MSE:HB2	2.00	0.43
1:C:38:VAL:HG21	1:C:324:LYS:HD2	2.01	0.43
1:C:49:THR:O	1:C:50:THR:C	2.56	0.43
1:D:35:PHE:CZ	1:D:321:ARG:CZ	3.02	0.43
1:D:43:ASP:OD2	1:D:43:ASP:N	2.52	0.43
1:F:25:ALA:O	1:F:29:ALA:CB	2.58	0.43
1:F:437:GLN:HA	1:F:440:MSE:HB2	2.00	0.43
1:F:66:LYS:O	1:F:70:GLU:HG3	2.18	0.43
1:G:79:LEU:N	1:G:519:ASP:O	2.51	0.43
1:H:95:MSE:HE1	1:H:99:ARG:NH2	2.33	0.43
1:I:413:LYS:HB3	1:I:413:LYS:HE2	1.73	0.43
1:I:80:TYR:CZ	1:I:448:VAL:HG22	2.54	0.43
1:I:79:LEU:HD23	1:I:521:GLY:HA3	2.00	0.43
1:J:45:LEU:HD21	1:J:328:ARG:HH21	1.82	0.43
1:K:15:PHE:HE2	1:K:19:TRP:HE1	1.66	0.43
1:K:80:TYR:CZ	1:K:448:VAL:HG22	2.54	0.43
1:K:95:MSE:HE1	1:K:99:ARG:NH2	2.33	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:212:LEU:HD12	1:N:212:LEU:N	2.34	0.43
1:R:38:VAL:HG21	1:R:324:LYS:HD2	1.99	0.43
1:R:78:VAL:CG1	1:R:79:LEU:H	2.30	0.43
1:S:101:ASP:HB3	1:S:138:THR:HG21	2.01	0.43
1:S:431:ALA:HA	1:S:434:THR:HG22	2.01	0.43
1:M:330:ARG:O	1:M:334:MSE:HB2	2.18	0.43
1:Q:274:ARG:O	1:Q:275:ARG:HD2	2.19	0.43
1:J:266:ILE:O	1:J:267:ALA:HB2	2.19	0.43
1:D:246:TYR:HD2	1:D:511:ARG:CB	2.28	0.43
1:G:219:ILE:HD13	1:G:282:THR:HG22	2.00	0.43
1:P:384:LEU:N	1:P:384:LEU:HD22	2.27	0.43
1:A:383:ASP:C	1:A:385:PRO:CD	2.86	0.43
1:K:378:ASP:O	1:K:381:SER:O	2.37	0.43
1:L:378:ASP:O	1:L:381:SER:O	2.37	0.43
1:E:598:GLN:O	1:E:601:GLN:HB2	2.19	0.43
1:U:584:PRO:CG	1:U:593:LEU:HD12	2.49	0.43
1:B:229:LYS:HD2	1:B:270:GLN:HG3	2.01	0.43
1:F:538:LEU:HB3	1:F:551:LEU:HD13	2.00	0.43
1:Q:542:THR:HA	1:Q:543:PRO:HD3	1.88	0.43
1:B:391:TYR:N	1:B:391:TYR:CD2	2.87	0.43
1:T:212:LEU:HD12	1:T:212:LEU:N	2.33	0.43
1:W:190:LYS:HA	1:W:190:LYS:HE3	2.00	0.43
1:J:391:TYR:N	1:J:391:TYR:CD2	2.87	0.43
1:G:391:TYR:N	1:G:391:TYR:CD2	2.86	0.43
1:V:191:TYR:HE1	1:V:278:LYS:HZ3	1.65	0.43
1:A:80:TYR:CZ	1:A:448:VAL:HG22	2.54	0.43
1:A:94:LEU:HD23	1:A:94:LEU:O	2.19	0.43
1:B:35:PHE:CZ	1:B:321:ARG:CZ	3.02	0.43
1:B:444:LEU:O	1:B:447:TYR:N	2.52	0.43
1:C:79:LEU:N	1:C:519:ASP:O	2.51	0.43
1:C:95:MSE:HE1	1:C:99:ARG:NH2	2.33	0.43
1:D:35:PHE:HZ	1:D:321:ARG:NE	2.12	0.43
1:D:378:ASP:O	1:D:381:SER:O	2.37	0.43
1:F:43:ASP:OD2	1:F:43:ASP:N	2.52	0.43
1:H:212:LEU:N	1:H:212:LEU:HD12	2.34	0.43
1:H:24:GLU:N	1:H:24:GLU:CD	2.71	0.43
1:H:444:LEU:O	1:H:447:TYR:N	2.52	0.43
1:H:66:LYS:O	1:H:70:GLU:HG3	2.18	0.43
1:I:123:VAL:HG13	1:I:304:PHE:CE1	2.54	0.43
1:I:99:ARG:NH1	1:I:530:GLN:HE21	2.13	0.43
1:I:94:LEU:HD23	1:I:94:LEU:O	2.19	0.43
1:J:35:PHE:CZ	1:J:321:ARG:CZ	3.02	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:J:560:LEU:HD13	1:K:82:PRO:CD	2.25	0.43
1:O:78:VAL:CG1	1:O:79:LEU:H	2.31	0.43
1:N:26:ARG:O	1:N:27:ARG:C	2.57	0.43
1:N:316:TYR:O	1:N:321:ARG:NH1	2.52	0.43
1:Q:35:PHE:CE1	1:Q:321:ARG:NH1	2.87	0.43
1:R:437:GLN:HA	1:R:440:MSE:HB2	1.99	0.43
1:T:443:ASP:O	1:T:446:THR:HG22	2.19	0.43
1:U:340:ILE:O	1:U:344:THR:HG21	2.19	0.43
1:X:431:ALA:HA	1:X:434:THR:HG22	2.01	0.43
1:X:444:LEU:O	1:X:447:TYR:N	2.52	0.43
1:O:180:SER:OG	1:P:161:ASN:HB3	2.19	0.43
1:V:248:LYS:HE2	1:V:513:ARG:HH12	1.83	0.43
1:R:158:TRP:H	1:R:158:TRP:HD1	1.65	0.43
1:N:298:ILE:HA	1:N:299:PRO:HD3	1.78	0.43
1:X:15:PHE:CE2	1:X:19:TRP:NE1	2.87	0.43
1:I:212:LEU:N	1:I:212:LEU:HD12	2.34	0.43
1:U:451:ASP:O	1:U:453:LEU:N	2.52	0.43
1:C:15:PHE:HE2	1:C:19:TRP:HE1	1.66	0.43
1:A:266:ILE:O	1:A:267:ALA:HB2	2.19	0.43
1:L:274:ARG:HD3	1:L:296:GLU:O	2.19	0.43
1:E:282:THR:HG23	1:E:287:LEU:CD1	2.44	0.43
1:L:219:ILE:HD13	1:L:282:THR:HG22	2.00	0.43
1:U:383:ASP:C	1:U:385:PRO:HD3	2.39	0.43
1:J:583:LYS:HA	1:J:584:PRO:HD3	1.85	0.43
1:L:383:ASP:C	1:L:385:PRO:HD3	2.39	0.43
1:F:378:ASP:O	1:F:381:SER:O	2.37	0.43
1:S:71:MSE:CE	1:S:115:VAL:HB	2.48	0.43
1:T:71:MSE:CE	1:T:115:VAL:HB	2.49	0.43
1:M:387:GLN:O	1:M:389:LEU:HG	2.18	0.43
1:T:340:ILE:O	1:T:344:THR:HG21	2.19	0.43
1:B:371:TYR:HA	1:C:348:LYS:HB3	2.01	0.43
1:U:179:MSE:O	1:U:217:ILE:HD12	2.19	0.43
1:M:395:PRO:HD2	1:O:398:PRO:HB3	2.00	0.43
1:N:270:GLN:HA	1:N:270:GLN:OE1	2.19	0.43
1:N:179:MSE:O	1:N:217:ILE:HD12	2.19	0.43
3:R:718:HOH:O	1:X:438:LEU:HD22	2.19	0.43
1:O:589:GLU:HA	1:O:592:TRP:HB2	2.00	0.43
1:B:252:LYS:HE3	1:B:252:LYS:O	2.19	0.43
1:Q:589:GLU:HA	1:Q:592:TRP:HB2	2.00	0.43
1:A:49:THR:O	1:A:50:THR:O	2.37	0.43
1:C:444:LEU:HD23	1:C:518:THR:OG1	2.18	0.43
1:E:66:LYS:O	1:E:70:GLU:HG3	2.18	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:71:MSE:HE3	1:G:115:VAL:HB	2.00	0.43
1:H:127:ARG:HA	1:H:299:PRO:O	2.18	0.43
1:H:38:VAL:HG21	1:H:324:LYS:HD2	2.01	0.43
1:I:35:PHE:CZ	1:I:321:ARG:CZ	3.02	0.43
1:J:80:TYR:CZ	1:J:448:VAL:HG22	2.54	0.43
1:J:49:THR:O	1:J:50:THR:O	2.37	0.43
1:J:66:LYS:O	1:J:70:GLU:HG3	2.18	0.43
1:J:94:LEU:O	1:J:94:LEU:HD23	2.19	0.43
1:K:35:PHE:CZ	1:K:321:ARG:CZ	3.02	0.43
1:K:182:ASN:HD22	1:L:171:ARG:HH21	1.65	0.43
1:N:340:ILE:O	1:N:344:THR:HG21	2.19	0.43
1:N:164:LEU:HD22	1:N:169:ASP:OD1	2.19	0.43
1:R:35:PHE:CE1	1:R:321:ARG:NH1	2.86	0.43
1:S:136:SER:N	1:S:137:PRO:HD3	2.33	0.43
1:T:35:PHE:C	1:T:37:ARG:N	2.70	0.43
1:T:53:TYR:OH	1:W:329:LEU:HD21	2.19	0.43
1:V:164:LEU:HD22	1:V:169:ASP:OD1	2.18	0.43
1:W:212:LEU:HD12	1:W:212:LEU:N	2.34	0.43
1:W:92:ASP:OD2	1:W:92:ASP:N	2.51	0.43
1:R:248:LYS:HE2	1:R:513:ARG:HH12	1.84	0.43
1:W:510:ILE:O	1:W:513:ARG:HD2	2.19	0.43
1:W:160:SER:O	1:W:161:ASN:ND2	2.45	0.43
1:O:248:LYS:HE2	1:O:513:ARG:HH12	1.83	0.43
1:N:248:LYS:CD	1:N:248:LYS:H	2.15	0.43
1:X:273:ARG:HH22	1:X:453:LEU:CD2	2.32	0.43
1:K:274:ARG:HD3	1:K:296:GLU:O	2.19	0.43
1:N:273:ARG:HH22	1:N:453:LEU:CD2	2.30	0.43
1:C:219:ILE:HD13	1:C:282:THR:HG22	2.00	0.43
1:P:236:GLN:H	1:P:265:LYS:HB2	1.83	0.43
1:H:383:ASP:C	1:H:385:PRO:HD3	2.39	0.43
1:R:575:GLN:O	1:R:579:MSE:CG	2.67	0.43
1:F:598:GLN:O	1:F:601:GLN:HB2	2.19	0.43
1:Q:380:ASN:O	1:Q:381:SER:CB	2.67	0.43
1:T:387:GLN:HA	1:T:388:PRO:HD3	1.93	0.43
1:F:229:LYS:HD2	1:F:270:GLN:HG3	2.01	0.43
1:N:191:TYR:O	1:N:288:LYS:HE2	2.19	0.43
1:T:372:TYR:CE2	1:W:348:LYS:HB2	2.53	0.43
1:V:174:THR:N	3:V:705:HOH:O	2.51	0.43
1:W:174:THR:N	3:W:705:HOH:O	2.51	0.43
1:G:252:LYS:HE3	1:G:252:LYS:O	2.19	0.43
1:T:245:SER:HG	1:T:247:PHE:HE1	1.65	0.43
1:A:35:PHE:HZ	1:A:321:ARG:NE	2.12	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:38:VAL:HG21	1:A:324:LYS:HD2	2.01	0.43
1:C:79:LEU:HD23	1:C:521:GLY:HA3	2.00	0.43
1:C:80:TYR:CZ	1:C:448:VAL:HG22	2.54	0.43
1:D:31:ASN:HD22	1:D:31:ASN:HA	1.62	0.43
1:E:79:LEU:HD23	1:E:521:GLY:HA3	2.00	0.43
1:E:94:LEU:O	1:E:94:LEU:HD23	2.19	0.43
1:F:79:LEU:N	1:F:519:ASP:O	2.51	0.43
1:G:378:ASP:O	1:G:381:SER:O	2.37	0.43
1:G:94:LEU:HD23	1:G:94:LEU:O	2.19	0.43
1:H:49:THR:O	1:H:50:THR:O	2.37	0.43
1:I:49:THR:O	1:I:50:THR:O	2.37	0.43
1:J:127:ARG:HA	1:J:299:PRO:O	2.18	0.43
1:J:34:PHE:HE1	1:J:324:LYS:HZ2	1.50	0.43
1:J:444:LEU:O	1:J:447:TYR:N	2.52	0.43
1:K:94:LEU:O	1:K:94:LEU:HD23	2.19	0.43
1:L:43:ASP:OD2	1:L:43:ASP:N	2.52	0.43
1:L:49:THR:O	1:L:50:THR:O	2.37	0.43
1:N:528:LYS:NZ	1:N:560:LEU:HD21	2.33	0.43
1:O:437:GLN:HA	1:O:440:MSE:HB2	2.01	0.43
1:L:78:VAL:HG21	1:L:444:LEU:CD1	2.21	0.43
1:O:528:LYS:HD2	1:O:560:LEU:HD21	2.01	0.43
1:P:164:LEU:HD22	1:P:169:ASP:OD1	2.18	0.43
1:Q:123:VAL:CG1	1:Q:304:PHE:CE1	3.02	0.43
1:Q:437:GLN:HA	1:Q:440:MSE:HB2	2.01	0.43
1:S:92:ASP:OD2	1:S:92:ASP:N	2.52	0.43
1:U:306:GLU:O	1:U:316:TYR:HA	2.19	0.43
1:A:139:SER:CB	1:A:455:THR:CG2	2.80	0.43
1:P:158:TRP:H	1:P:158:TRP:HD1	1.66	0.43
1:W:298:ILE:HA	1:W:299:PRO:HD3	1.80	0.43
1:N:510:ILE:O	1:N:513:ARG:HD2	2.19	0.43
1:J:274:ARG:HD3	1:J:296:GLU:O	2.19	0.43
1:G:251:ILE:HD11	1:G:275:ARG:NH2	2.34	0.43
1:A:282:THR:HG23	1:A:287:LEU:CD1	2.43	0.43
1:C:198:ILE:HA	1:C:199:PRO:HD3	1.64	0.43
1:T:236:GLN:H	1:T:265:LYS:CB	2.32	0.43
1:T:262:GLY:O	1:T:263:PHE:HB3	2.19	0.43
1:I:583:LYS:HA	1:I:584:PRO:HD3	1.85	0.43
1:H:583:LYS:HA	1:H:584:PRO:HD3	1.85	0.43
1:R:231:THR:CG2	1:R:249:ARG:HH11	2.31	0.43
1:U:430:VAL:HG13	3:X:719:HOH:O	2.17	0.43
1:M:387:GLN:CB	1:O:390:ALA:CB	2.97	0.43
1:M:387:GLN:HB3	1:O:390:ALA:CB	2.49	0.43

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:387:GLN:O	1:N:389:LEU:HG	2.19	0.43
1:R:179:MSE:O	1:R:217:ILE:HD12	2.19	0.43
1:S:567:MSE:SE	1:T:576:LEU:HD13	2.67	0.43
1:L:252:LYS:HE3	1:L:252:LYS:O	2.19	0.43
1:F:252:LYS:HE3	1:F:252:LYS:O	2.19	0.43
1:D:391:TYR:N	1:D:391:TYR:CD2	2.87	0.43
1:S:270:GLN:HA	1:S:270:GLN:OE1	2.18	0.43
1:S:190:LYS:HA	1:S:190:LYS:HE3	2.00	0.43
1:F:391:TYR:N	1:F:391:TYR:CD2	2.87	0.43
1:U:280:ILE:HD12	1:U:280:ILE:N	2.33	0.43
1:U:171:ARG:O	1:U:224:GLU:HA	2.18	0.43
1:A:34:PHE:CE1	1:A:324:LYS:NZ	2.72	0.42
1:A:79:LEU:HD23	1:A:521:GLY:HA3	2.00	0.42
1:B:127:ARG:HA	1:B:299:PRO:O	2.18	0.42
1:C:123:VAL:HG13	1:C:304:PHE:CE1	2.54	0.42
1:C:212:LEU:N	1:C:212:LEU:HD12	2.34	0.42
1:D:123:VAL:HG13	1:D:304:PHE:CE1	2.54	0.42
1:D:38:VAL:HG21	1:D:324:LYS:HD2	2.01	0.42
1:D:80:TYR:CZ	1:D:448:VAL:HG22	2.54	0.42
1:F:123:VAL:HG13	1:F:304:PHE:CE1	2.54	0.42
1:F:49:THR:O	1:F:50:THR:O	2.37	0.42
1:G:49:THR:O	1:G:50:THR:C	2.56	0.42
1:H:71:MSE:HE3	1:H:115:VAL:HB	2.00	0.42
1:H:35:PHE:CZ	1:H:321:ARG:CZ	3.02	0.42
1:H:437:GLN:HA	1:H:440:MSE:HB2	2.01	0.42
1:I:15:PHE:HE2	1:I:19:TRP:HE1	1.66	0.42
1:J:212:LEU:N	1:J:212:LEU:HD12	2.34	0.42
1:J:123:VAL:HG13	1:J:304:PHE:CE1	2.54	0.42
1:K:212:LEU:HD12	1:K:212:LEU:N	2.34	0.42
1:K:123:VAL:HG13	1:K:304:PHE:CE1	2.54	0.42
1:K:79:LEU:HD23	1:K:521:GLY:HA3	2.00	0.42
1:K:99:ARG:NH1	1:K:530:GLN:HE21	2.13	0.42
1:L:24:GLU:CD	1:L:24:GLU:N	2.71	0.42
1:P:29:ALA:O	1:P:33:LEU:HG	2.19	0.42
1:R:306:GLU:O	1:R:316:TYR:HA	2.19	0.42
1:T:444:LEU:HD13	1:T:444:LEU:N	2.34	0.42
1:H:14:ARG:CA	1:H:14:ARG:NE	2.67	0.42
1:U:15:PHE:CE2	1:U:19:TRP:NE1	2.87	0.42
1:U:118:GLN:OE1	1:U:303:VAL:HB	2.19	0.42
1:R:330:ARG:O	1:R:334:MSE:HB2	2.19	0.42
1:O:274:ARG:O	1:O:275:ARG:HD2	2.19	0.42
1:G:227:GLU:N	1:G:227:GLU:OE2	2.47	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:274:ARG:HD3	1:B:296:GLU:O	2.19	0.42
1:H:266:ILE:O	1:H:267:ALA:HB2	2.19	0.42
1:E:227:GLU:OE2	1:E:227:GLU:N	2.47	0.42
1:E:266:ILE:O	1:E:267:ALA:HB2	2.19	0.42
1:F:274:ARG:HD3	1:F:296:GLU:O	2.19	0.42
1:E:219:ILE:HD13	1:E:282:THR:HG22	2.00	0.42
1:A:219:ILE:HD13	1:A:282:THR:HG22	2.00	0.42
1:O:212:LEU:HD12	1:O:212:LEU:N	2.34	0.42
1:R:282:THR:HG23	1:R:287:LEU:CD1	2.46	0.42
1:Q:232:ALA:HB2	1:Q:269:ARG:O	2.19	0.42
1:W:575:GLN:O	1:W:579:MSE:CG	2.66	0.42
1:A:579:MSE:CB	1:A:581:VAL:HG12	2.49	0.42
1:E:232:ALA:HB1	1:E:233:PHE:H	1.71	0.42
1:V:386:THR:CG2	1:V:389:LEU:HD21	2.49	0.42
1:S:276:VAL:CG2	1:S:293:ILE:HG23	2.48	0.42
1:A:598:GLN:O	1:A:601:GLN:HB2	2.19	0.42
1:G:229:LYS:HD2	1:G:270:GLN:HG3	2.01	0.42
1:K:229:LYS:HD2	1:K:270:GLN:HG3	2.01	0.42
1:D:229:LYS:HD2	1:D:270:GLN:HG3	2.01	0.42
1:G:538:LEU:HB3	1:G:551:LEU:HD13	2.00	0.42
1:A:538:LEU:HB3	1:A:551:LEU:HD13	2.00	0.42
1:O:147:GLU:HA	1:O:148:PRO:HD3	1.81	0.42
1:O:179:MSE:O	1:O:217:ILE:HD12	2.19	0.42
1:W:245:SER:HG	1:W:247:PHE:HE1	1.65	0.42
1:C:252:LYS:O	1:C:252:LYS:HE3	2.19	0.42
1:Q:76:ILE:HD12	1:Q:433:ASP:OD1	2.18	0.42
1:G:127:ARG:HA	1:G:299:PRO:O	2.18	0.42
1:X:179:MSE:O	1:X:217:ILE:HD12	2.19	0.42
1:O:107:ALA:HA	1:O:146:ARG:HB3	2.00	0.42
1:B:15:PHE:HE2	1:B:19:TRP:HE1	1.66	0.42
1:B:123:VAL:HG13	1:B:304:PHE:CE1	2.54	0.42
1:C:43:ASP:OD2	1:C:43:ASP:N	2.52	0.42
1:C:94:LEU:HD23	1:C:94:LEU:O	2.19	0.42
1:D:212:LEU:HD12	1:D:212:LEU:N	2.34	0.42
1:D:444:LEU:O	1:D:447:TYR:N	2.52	0.42
1:D:94:LEU:HD23	1:D:94:LEU:O	2.19	0.42
1:E:24:GLU:N	1:E:24:GLU:CD	2.71	0.42
1:E:38:VAL:HG21	1:E:324:LYS:HD2	2.01	0.42
1:F:79:LEU:HD23	1:F:521:GLY:HA3	2.00	0.42
1:H:123:VAL:HG13	1:H:304:PHE:CE1	2.54	0.42
1:I:66:LYS:O	1:I:70:GLU:HG3	2.18	0.42
1:J:43:ASP:N	1:J:43:ASP:OD2	2.52	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:443:ASP:C	1:K:446:THR:HG22	2.38	0.42
1:K:49:THR:O	1:K:50:THR:O	2.37	0.42
1:M:444:LEU:O	1:M:447:TYR:N	2.52	0.42
1:O:344:THR:O	1:O:344:THR:CG2	2.67	0.42
1:N:92:ASP:OD2	1:N:92:ASP:N	2.53	0.42
1:R:29:ALA:O	1:R:33:LEU:HG	2.19	0.42
1:S:100:THR:HG22	1:S:138:THR:HG22	2.00	0.42
1:S:24:GLU:O	1:S:26:ARG:N	2.50	0.42
1:T:29:ALA:O	1:T:33:LEU:HG	2.18	0.42
1:V:344:THR:O	1:V:344:THR:CG2	2.66	0.42
1:W:29:ALA:O	1:W:33:LEU:HG	2.19	0.42
1:X:528:LYS:NZ	1:X:560:LEU:HD21	2.34	0.42
1:B:251:ILE:HD11	1:B:275:ARG:NH2	2.34	0.42
1:B:273:ARG:HH22	1:B:453:LEU:HD11	1.85	0.42
1:T:273:ARG:CZ	1:T:275:ARG:HE	2.31	0.42
1:E:273:ARG:HD2	1:E:275:ARG:HD2	2.02	0.42
1:F:251:ILE:HD11	1:F:275:ARG:NH2	2.34	0.42
1:W:236:GLN:H	1:W:265:LYS:HB2	1.83	0.42
1:R:266:ILE:O	1:R:267:ALA:HB2	2.19	0.42
1:V:265:LYS:O	1:V:266:ILE:HG12	2.19	0.42
1:O:383:ASP:C	1:O:385:PRO:HD3	2.39	0.42
1:T:376:ARG:HB2	1:W:352:TRP:CG	2.54	0.42
1:C:383:ASP:C	1:C:385:PRO:CD	2.86	0.42
1:J:378:ASP:O	1:J:381:SER:O	2.37	0.42
1:K:598:GLN:O	1:K:601:GLN:HB2	2.19	0.42
1:L:598:GLN:O	1:L:601:GLN:HB2	2.19	0.42
1:B:598:GLN:O	1:B:601:GLN:HB2	2.19	0.42
1:A:390:ALA:HB2	1:L:387:GLN:HG3	1.99	0.42
1:P:387:GLN:HB3	1:Q:390:ALA:CB	2.49	0.42
1:T:584:PRO:CG	1:T:593:LEU:HD12	2.49	0.42
1:X:584:PRO:CG	1:X:593:LEU:HD12	2.49	0.42
2:Z:57:TYR:H	2:Z:63:ILE:H	1.65	0.42
1:U:57:PHE:CD1	1:U:57:PHE:N	2.87	0.42
1:S:589:GLU:HA	1:S:592:TRP:HB2	2.00	0.42
1:M:77:ASP:HB2	1:M:523:SER:HB2	2.02	0.42
1:E:252:LYS:O	1:E:252:LYS:HE3	2.19	0.42
1:D:252:LYS:O	1:D:252:LYS:HE3	2.19	0.42
1:Q:371:TYR:HE2	1:Q:373:LEU:HD21	1.84	0.42
1:T:179:MSE:O	1:T:217:ILE:HD12	2.20	0.42
1:R:349:PRO:HG3	1:R:391:TYR:CE1	2.54	0.42
1:A:25:ALA:O	1:A:29:ALA:CB	2.58	0.42
1:D:171:ARG:HH21	1:E:182:ASN:HD22	1.65	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:35:PHE:HE1	1:D:321:ARG:NH1	2.13	0.42
1:F:26:ARG:NH2	1:F:30:LYS:HB2	2.28	0.42
1:F:38:VAL:HG21	1:F:324:LYS:HD2	2.01	0.42
1:G:15:PHE:HE2	1:G:19:TRP:HE1	1.66	0.42
1:G:35:PHE:CZ	1:G:321:ARG:CZ	3.02	0.42
1:H:79:LEU:N	1:H:519:ASP:O	2.51	0.42
1:I:35:PHE:HE1	1:I:321:ARG:NH1	2.13	0.42
1:J:49:THR:O	1:J:50:THR:C	2.56	0.42
1:K:43:ASP:N	1:K:43:ASP:OD2	2.52	0.42
1:K:444:LEU:O	1:K:447:TYR:N	2.52	0.42
1:K:48:TYR:O	1:K:49:THR:CB	2.64	0.42
1:L:49:THR:O	1:L:50:THR:C	2.56	0.42
1:M:24:GLU:CD	1:M:24:GLU:N	2.73	0.42
1:L:82:PRO:HB2	1:L:83:LYS:H	1.58	0.42
1:Q:431:ALA:HA	1:Q:434:THR:HG22	2.01	0.42
1:T:101:ASP:HB3	1:T:138:THR:HG21	2.01	0.42
1:V:15:PHE:CE2	1:V:19:TRP:NE1	2.88	0.42
1:M:407:ALA:HB1	1:N:334:MSE:HE1	2.00	0.42
1:G:246:TYR:HD2	1:G:511:ARG:CB	2.28	0.42
1:B:248:LYS:CD	1:B:248:LYS:H	2.16	0.42
1:D:273:ARG:HD2	1:D:275:ARG:HD2	2.01	0.42
1:B:528:LYS:HZ3	1:B:560:LEU:HD21	1.83	0.42
1:C:273:ARG:HD2	1:C:275:ARG:HD2	2.02	0.42
1:F:273:ARG:HH22	1:F:453:LEU:HD11	1.85	0.42
1:L:251:ILE:HD11	1:L:275:ARG:NH2	2.35	0.42
1:S:280:ILE:HG22	1:S:287:LEU:HD13	2.01	0.42
1:O:280:ILE:HG22	1:O:287:LEU:HD13	2.02	0.42
1:Q:198:ILE:HA	1:Q:199:PRO:HD3	1.72	0.42
1:E:383:ASP:C	1:E:385:PRO:HD3	2.39	0.42
1:C:378:ASP:O	1:C:381:SER:O	2.37	0.42
1:L:542:THR:HA	1:L:543:PRO:HD3	1.82	0.42
1:T:578:GLN:HG2	1:T:596:ALA:CB	2.49	0.42
1:S:584:PRO:CG	1:S:593:LEU:HD12	2.49	0.42
1:O:584:PRO:CG	1:O:593:LEU:HD12	2.49	0.42
1:J:229:LYS:HD2	1:J:270:GLN:HG3	2.01	0.42
1:T:322:LEU:HD22	1:T:322:LEU:H	1.83	0.42
1:X:191:TYR:O	1:X:288:LYS:HE2	2.19	0.42
1:W:191:TYR:O	1:W:288:LYS:HE2	2.20	0.42
1:P:589:GLU:HA	1:P:592:TRP:HB2	2.01	0.42
1:A:528:LYS:CD	1:A:560:LEU:HD21	2.50	0.42
1:B:444:LEU:HD23	1:B:518:THR:OG1	2.18	0.42
1:C:35:PHE:CZ	1:C:321:ARG:CZ	3.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:47:GLN:CD	1:C:47:GLN:N	2.72	0.42
1:E:444:LEU:O	1:E:447:TYR:N	2.52	0.42
1:G:123:VAL:HG13	1:G:304:PHE:CE1	2.54	0.42
1:G:78:VAL:CG2	1:G:444:LEU:HD21	2.46	0.42
1:H:528:LYS:CD	1:H:560:LEU:HD21	2.50	0.42
1:J:71:MSE:HE3	1:J:115:VAL:HB	2.01	0.42
1:K:434:THR:HG23	1:K:435:VAL:N	2.35	0.42
1:K:49:THR:O	1:K:50:THR:C	2.56	0.42
1:O:123:VAL:HG13	1:O:304:PHE:CE1	2.54	0.42
1:N:24:GLU:HG3	1:N:313:LYS:HE2	2.00	0.42
1:P:444:LEU:O	1:P:447:TYR:N	2.52	0.42
1:T:437:GLN:HA	1:T:440:MSE:HB2	2.02	0.42
1:T:528:LYS:NZ	1:T:560:LEU:HD21	2.35	0.42
1:Q:301:VAL:HA	1:Q:302:PRO:HD3	1.79	0.42
1:N:158:TRP:HH2	1:N:302:PRO:HG3	1.80	0.42
1:J:251:ILE:HD11	1:J:275:ARG:NH2	2.35	0.42
1:H:251:ILE:HD11	1:H:275:ARG:NH2	2.34	0.42
1:A:274:ARG:HD3	1:A:296:GLU:O	2.19	0.42
1:X:26:ARG:O	1:X:27:ARG:C	2.56	0.42
1:G:208:VAL:HB	1:G:209:PHE:H	1.69	0.42
1:B:378:ASP:O	1:B:381:SER:O	2.37	0.42
1:V:575:GLN:O	1:V:579:MSE:CG	2.66	0.42
1:L:579:MSE:CB	1:L:581:VAL:HG12	2.50	0.42
1:W:554:LEU:HD12	1:W:557:PHE:CD2	2.53	0.42
1:J:598:GLN:O	1:J:601:GLN:HB2	2.19	0.42
1:C:579:MSE:CB	1:C:581:VAL:HG12	2.49	0.42
1:G:598:GLN:O	1:G:601:GLN:HB2	2.19	0.42
1:H:598:GLN:O	1:H:601:GLN:HB2	2.19	0.42
1:G:552:LEU:O	1:G:556:TYR:HD2	2.03	0.42
1:J:556:TYR:OH	1:K:542:THR:HG21	2.20	0.42
1:R:584:PRO:CG	1:R:593:LEU:HD12	2.50	0.42
1:X:227:GLU:O	1:X:227:GLU:HG2	2.20	0.42
1:N:589:GLU:HA	1:N:592:TRP:HB2	2.01	0.42
1:U:190:LYS:HA	1:U:190:LYS:HE3	2.00	0.42
1:C:127:ARG:HA	1:C:299:PRO:O	2.18	0.42
1:E:369:TYR:HA	1:E:370:PRO:HD3	1.84	0.42
1:A:444:LEU:O	1:A:447:TYR:N	2.52	0.42
1:B:94:LEU:O	1:B:94:LEU:HD23	2.19	0.42
1:E:49:THR:O	1:E:50:THR:O	2.37	0.42
1:G:80:TYR:CZ	1:G:448:VAL:HG22	2.54	0.42
1:G:93:VAL:O	1:G:97:MSE:HG3	2.20	0.42
1:H:68:VAL:HG22	1:H:119:ILE:HD12	2.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:94:LEU:O	1:H:94:LEU:HD23	2.19	0.42
1:I:47:GLN:N	1:I:47:GLN:CD	2.72	0.42
1:J:24:GLU:CD	1:J:24:GLU:N	2.71	0.42
1:J:99:ARG:NH1	1:J:530:GLN:HE21	2.13	0.42
1:J:528:LYS:CD	1:J:560:LEU:HD21	2.50	0.42
1:M:212:LEU:HD12	1:M:212:LEU:N	2.34	0.42
1:M:35:PHE:HZ	1:M:321:ARG:NE	2.12	0.42
1:M:35:PHE:C	1:M:37:ARG:N	2.73	0.42
1:L:434:THR:HG23	1:L:435:VAL:N	2.35	0.42
1:L:437:GLN:HA	1:L:440:MSE:HB2	2.01	0.42
1:L:94:LEU:HD23	1:L:94:LEU:O	2.19	0.42
1:Q:24:GLU:O	1:Q:26:ARG:N	2.50	0.42
1:Q:528:LYS:NZ	1:Q:560:LEU:HD21	2.34	0.42
1:R:33:LEU:HD12	1:R:34:PHE:N	2.34	0.42
1:T:34:PHE:O	1:T:37:ARG:HB2	2.19	0.42
1:T:79:LEU:N	1:T:519:ASP:O	2.53	0.42
1:U:101:ASP:HB3	1:U:138:THR:HG21	2.02	0.42
1:U:443:ASP:O	1:U:446:THR:HG22	2.20	0.42
1:V:306:GLU:O	1:V:316:TYR:HA	2.19	0.42
1:W:306:GLU:O	1:W:316:TYR:HA	2.20	0.42
1:W:343:ARG:HG2	1:W:343:ARG:H	1.56	0.42
1:V:158:TRP:HH2	1:V:302:PRO:HG3	1.81	0.42
1:Q:160:SER:O	1:Q:161:ASN:ND2	2.44	0.42
1:B:266:ILE:O	1:B:267:ALA:HB2	2.19	0.42
1:I:246:TYR:HD2	1:I:511:ARG:CB	2.28	0.42
1:O:265:LYS:O	1:O:266:ILE:HG12	2.19	0.42
1:U:236:GLN:HG3	1:U:265:LYS:HG2	2.00	0.42
1:I:383:ASP:C	1:I:385:PRO:HD3	2.39	0.42
1:U:61:ARG:CB	1:U:62:PRO:HD3	2.49	0.42
1:I:552:LEU:O	1:I:556:TYR:HD2	2.03	0.42
1:B:579:MSE:CB	1:B:581:VAL:HG12	2.50	0.42
1:D:363:TYR:HE1	1:F:350:PHE:CE1	2.35	0.42
1:H:552:LEU:O	1:H:556:TYR:HD2	2.03	0.42
1:H:229:LYS:HD2	1:H:270:GLN:HG3	2.01	0.42
3:M:718:HOH:O	1:O:438:LEU:HD22	2.19	0.42
1:C:391:TYR:N	1:C:391:TYR:CD2	2.87	0.42
1:X:280:ILE:HD12	1:X:280:ILE:N	2.34	0.42
1:W:179:MSE:O	1:W:217:ILE:HD12	2.19	0.42
1:B:43:ASP:OD2	1:B:43:ASP:N	2.52	0.42
1:B:443:ASP:C	1:B:446:THR:HG22	2.38	0.42
1:B:49:THR:O	1:B:50:THR:O	2.37	0.42
1:C:24:GLU:C	1:C:26:ARG:N	2.73	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:444:LEU:O	1:C:447:TYR:N	2.52	0.42
1:D:93:VAL:O	1:D:97:MSE:HG3	2.20	0.42
1:E:123:VAL:HG13	1:E:304:PHE:CE1	2.54	0.42
1:E:71:MSE:HE3	1:E:115:VAL:HB	2.01	0.42
1:F:80:TYR:CZ	1:F:448:VAL:HG22	2.54	0.42
1:F:93:VAL:O	1:F:97:MSE:HG3	2.20	0.42
1:G:444:LEU:O	1:G:447:TYR:N	2.52	0.42
1:H:93:VAL:O	1:H:97:MSE:HG3	2.20	0.42
1:I:434:THR:HG23	1:I:435:VAL:N	2.35	0.42
1:K:127:ARG:HA	1:K:299:PRO:O	2.19	0.42
1:O:92:ASP:N	1:O:92:ASP:OD2	2.52	0.42
1:P:528:LYS:NZ	1:P:560:LEU:HD21	2.34	0.42
1:S:212:LEU:HD12	1:S:212:LEU:N	2.34	0.42
1:T:92:ASP:N	1:T:92:ASP:OD2	2.52	0.42
1:U:212:LEU:N	1:U:212:LEU:HD12	2.34	0.42
1:U:344:THR:O	1:U:344:THR:CG2	2.68	0.42
1:V:123:VAL:HG22	1:V:316:TYR:HE2	1.83	0.42
1:V:24:GLU:HG3	1:V:313:LYS:HE2	2.00	0.42
1:V:528:LYS:NZ	1:V:560:LEU:HD21	2.34	0.42
1:W:41:TRP:HE3	1:W:42:ASP:HB3	1.82	0.42
1:S:248:LYS:HE2	1:S:513:ARG:HH12	1.85	0.42
1:S:248:LYS:CG	1:S:511:ARG:HH11	2.31	0.42
1:U:115:VAL:HA	1:U:118:GLN:HB3	2.02	0.42
1:X:92:ASP:OD2	1:X:92:ASP:N	2.52	0.42
1:N:301:VAL:HG23	1:N:439:ASN:HB3	2.01	0.42
1:Q:334:MSE:HE1	1:R:407:ALA:HB1	2.01	0.42
1:J:273:ARG:HD2	1:J:275:ARG:HD2	2.02	0.42
1:S:554:LEU:HD21	1:U:564:GLY:CA	2.39	0.42
1:N:280:ILE:HG22	1:N:287:LEU:HD13	2.02	0.42
1:M:383:ASP:C	1:M:385:PRO:HD3	2.40	0.42
1:S:575:GLN:O	1:S:579:MSE:CG	2.66	0.42
1:M:40:GLN:HE21	1:M:40:GLN:HB2	1.57	0.42
1:A:229:LYS:HD2	1:A:270:GLN:HG3	2.01	0.42
1:U:369:TYR:HA	1:U:370:PRO:HD3	1.83	0.42
1:X:270:GLN:OE1	1:X:270:GLN:HA	2.19	0.42
1:T:503:GLU:HB3	1:T:508:ASN:HB3	2.02	0.42
1:A:123:VAL:HG13	1:A:304:PHE:CE1	2.54	0.42
1:C:301:VAL:HG23	1:C:439:ASN:HB3	2.02	0.42
1:D:24:GLU:C	1:D:26:ARG:N	2.73	0.42
1:E:34:PHE:CE1	1:E:324:LYS:NZ	2.72	0.42
1:E:80:TYR:CZ	1:E:448:VAL:HG22	2.54	0.42
1:F:24:GLU:C	1:F:26:ARG:N	2.73	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:528:LYS:CD	1:F:560:LEU:HD21	2.50	0.42
1:D:561:ASP:CB	1:F:89:ASP:HA	2.43	0.42
1:G:68:VAL:HG22	1:G:119:ILE:HD12	2.02	0.42
1:H:80:TYR:CZ	1:H:448:VAL:HG22	2.54	0.42
1:J:437:GLN:HA	1:J:440:MSE:HB2	2.00	0.42
1:K:35:PHE:HZ	1:K:321:ARG:NE	2.12	0.42
1:K:68:VAL:HG22	1:K:119:ILE:HD12	2.02	0.42
1:L:123:VAL:HG13	1:L:304:PHE:CE1	2.54	0.42
1:L:48:TYR:O	1:L:49:THR:CB	2.64	0.42
1:R:80:TYR:OH	1:R:444:LEU:HD12	2.19	0.42
1:T:306:GLU:O	1:T:316:TYR:HA	2.19	0.42
1:T:301:VAL:HG23	1:T:439:ASN:HB3	2.01	0.42
1:U:444:LEU:N	1:U:444:LEU:HD13	2.34	0.42
1:W:340:ILE:O	1:W:344:THR:HG21	2.20	0.42
1:X:101:ASP:HB3	1:X:138:THR:HG21	2.01	0.42
1:X:306:GLU:O	1:X:316:TYR:HA	2.20	0.42
1:X:248:LYS:HE2	1:X:513:ARG:HH12	1.85	0.42
1:W:248:LYS:HE2	1:W:513:ARG:HH12	1.84	0.42
2:Z:104:TYR:CD1	2:Z:104:TYR:N	2.85	0.42
1:R:528:LYS:HD2	1:R:560:LEU:HD21	2.02	0.42
1:N:409:THR:O	1:N:413:LYS:HG2	2.20	0.42
1:B:567:MSE:HE2	1:C:554:LEU:HD22	2.00	0.42
1:W:451:ASP:O	1:W:453:LEU:N	2.52	0.42
1:Q:451:ASP:O	1:Q:453:LEU:N	2.53	0.42
1:X:451:ASP:C	1:X:453:LEU:H	2.20	0.42
1:B:528:LYS:CD	1:B:560:LEU:HD21	2.50	0.42
1:H:227:GLU:OE2	1:H:227:GLU:N	2.47	0.42
1:A:248:LYS:CD	1:A:248:LYS:H	2.16	0.42
1:A:251:ILE:HD11	1:A:275:ARG:NH2	2.35	0.42
1:F:248:LYS:HZ2	1:F:251:ILE:HD12	1.85	0.42
1:P:383:ASP:C	1:P:385:PRO:HD3	2.40	0.42
1:R:212:LEU:N	1:R:212:LEU:HD12	2.35	0.42
1:Q:376:ARG:HB2	1:R:352:TRP:CD1	2.55	0.42
1:U:234:ILE:HG12	1:U:267:ALA:O	2.20	0.42
1:S:383:ASP:C	1:S:385:PRO:HD3	2.40	0.42
1:R:564:GLY:HA3	1:X:535:ILE:HD11	2.00	0.42
1:P:262:GLY:O	1:P:263:PHE:HB3	2.20	0.42
1:C:457:MSE:CG	1:C:457:MSE:O	2.63	0.42
1:E:583:LYS:HA	1:E:584:PRO:HD3	1.85	0.42
1:E:579:MSE:CB	1:E:581:VAL:HG12	2.50	0.42
1:O:293:ILE:HG12	1:O:294:ALA:H	1.84	0.42
1:C:598:GLN:O	1:C:601:GLN:HB2	2.19	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:332:MSE:SE	2:Y:141:MET:HA	2.69	0.42
1:I:598:GLN:O	1:I:601:GLN:HB2	2.19	0.42
1:U:191:TYR:O	1:U:288:LYS:HE2	2.19	0.42
1:V:584:PRO:CG	1:V:593:LEU:HD12	2.50	0.42
1:R:394:ASN:HA	1:R:395:PRO:HD3	1.93	0.42
1:C:229:LYS:HD2	1:C:270:GLN:HG3	2.01	0.42
1:S:227:GLU:HG2	1:S:227:GLU:O	2.18	0.42
1:R:589:GLU:HA	1:R:592:TRP:HB2	2.00	0.42
1:P:77:ASP:HB2	1:P:523:SER:HB2	2.02	0.42
1:K:252:LYS:O	1:K:252:LYS:HE3	2.19	0.42
1:M:179:MSE:O	1:M:217:ILE:HD12	2.20	0.42
1:B:430:VAL:HG12	1:B:431:ALA:N	2.35	0.42
1:X:61:ARG:CB	1:X:62:PRO:HD3	2.49	0.42
1:A:37:ARG:HD2	1:A:37:ARG:HA	1.79	0.42
1:D:528:LYS:CD	1:D:560:LEU:HD21	2.50	0.42
1:E:212:LEU:HD12	1:E:212:LEU:N	2.34	0.42
1:F:71:MSE:HE3	1:F:115:VAL:HB	2.00	0.42
1:G:212:LEU:HD12	1:G:212:LEU:N	2.34	0.42
1:G:165:MSE:HE1	1:G:435:VAL:HB	2.02	0.42
1:G:79:LEU:HD23	1:G:521:GLY:HA3	2.00	0.42
1:I:35:PHE:HZ	1:I:321:ARG:NE	2.12	0.42
1:I:444:LEU:O	1:I:447:TYR:N	2.52	0.42
1:J:434:THR:HG23	1:J:435:VAL:N	2.35	0.42
1:O:41:TRP:HE3	1:O:42:ASP:HB3	1.83	0.42
1:O:431:ALA:HA	1:O:434:THR:HG22	2.02	0.42
1:N:431:ALA:HA	1:N:434:THR:HG22	2.01	0.42
1:P:212:LEU:HD12	1:P:212:LEU:N	2.34	0.42
1:P:443:ASP:O	1:P:446:THR:HG22	2.20	0.42
1:Q:528:LYS:HD2	1:Q:560:LEU:HD21	2.02	0.42
1:R:24:GLU:HG3	1:R:313:LYS:HE2	2.01	0.42
1:S:27:ARG:HH21	1:U:41:TRP:HE1	1.67	0.42
1:S:528:LYS:NZ	1:S:560:LEU:HD21	2.35	0.42
1:T:431:ALA:HA	1:T:434:THR:HG22	2.01	0.42
1:T:458:ARG:HA	1:T:458:ARG:HD3	1.84	0.42
1:U:528:LYS:HD2	1:U:560:LEU:HD21	2.02	0.42
1:V:443:ASP:O	1:V:446:THR:HG22	2.20	0.42
1:W:437:GLN:HA	1:W:440:MSE:HB2	2.01	0.42
1:M:15:PHE:CE2	1:M:19:TRP:NE1	2.88	0.42
1:T:15:PHE:CE2	1:T:19:TRP:NE1	2.88	0.42
1:X:510:ILE:HG12	1:X:511:ARG:H	1.84	0.42
1:V:158:TRP:HD1	1:V:158:TRP:H	1.66	0.42
1:X:115:VAL:HA	1:X:118:GLN:HB3	2.02	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:R:158:TRP:HH2	1:R:302:PRO:HG3	1.84	0.42
1:S:451:ASP:O	1:S:453:LEU:N	2.53	0.42
1:L:198:ILE:HA	1:L:199:PRO:HD3	1.64	0.42
1:T:265:LYS:O	1:T:266:ILE:HG12	2.19	0.42
1:S:265:LYS:O	1:S:266:ILE:HG12	2.20	0.42
1:M:262:GLY:O	1:M:263:PHE:HB3	2.20	0.42
1:Q:384:LEU:HD22	1:Q:384:LEU:N	2.29	0.42
1:F:209:PHE:N	1:F:210:PRO:CD	2.82	0.42
1:C:147:GLU:HA	1:C:148:PRO:HD3	1.86	0.42
1:J:386:THR:HG21	1:J:389:LEU:HD21	2.02	0.42
1:H:386:THR:HG21	1:H:389:LEU:HD21	2.02	0.42
1:I:386:THR:HG21	1:I:389:LEU:HD21	2.02	0.42
1:M:578:GLN:HG2	1:M:596:ALA:CB	2.50	0.42
1:F:552:LEU:O	1:F:556:TYR:HD2	2.03	0.42
1:P:387:GLN:O	1:P:389:LEU:HG	2.20	0.42
1:I:229:LYS:HG2	1:I:272:LYS:CG	2.50	0.42
1:K:426:ASN:O	1:K:427:GLY:C	2.58	0.42
1:O:227:GLU:HG2	1:O:227:GLU:O	2.20	0.42
1:V:438:LEU:HD12	1:V:441:ARG:NH1	2.35	0.42
1:I:369:TYR:HA	1:I:370:PRO:HD3	1.84	0.42
1:V:270:GLN:OE1	1:V:270:GLN:HA	2.20	0.42
1:H:252:LYS:O	1:H:252:LYS:HE3	2.19	0.42
1:I:252:LYS:HE3	1:I:252:LYS:O	2.19	0.42
1:V:542:THR:HA	1:V:543:PRO:HD3	1.87	0.42
1:Q:372:TYR:CE2	1:R:348:LYS:HB2	2.55	0.42
1:U:503:GLU:HB3	1:U:508:ASN:HB3	2.02	0.42
1:A:212:LEU:N	1:A:212:LEU:HD12	2.34	0.42
1:B:24:GLU:C	1:B:26:ARG:N	2.73	0.42
1:C:434:THR:HG23	1:C:435:VAL:N	2.35	0.42
1:D:165:MSE:HE1	1:D:435:VAL:HB	2.02	0.42
1:D:47:GLN:CD	1:D:47:GLN:N	2.72	0.42
1:D:49:THR:O	1:D:50:THR:O	2.37	0.42
1:E:68:VAL:HG22	1:E:119:ILE:HD12	2.02	0.42
1:E:35:PHE:CZ	1:E:321:ARG:CZ	3.02	0.42
1:E:378:ASP:O	1:E:381:SER:O	2.37	0.42
1:F:130:THR:HG23	1:F:450:GLN:NE2	2.35	0.42
1:G:528:LYS:CD	1:G:560:LEU:HD21	2.50	0.42
1:H:130:THR:HG23	1:H:450:GLN:NE2	2.35	0.42
1:H:165:MSE:HE1	1:H:435:VAL:HB	2.02	0.42
1:I:93:VAL:O	1:I:97:MSE:HG3	2.20	0.42
1:K:38:VAL:HG21	1:K:324:LYS:HD2	2.01	0.42
1:L:212:LEU:N	1:L:212:LEU:HD12	2.34	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:306:GLU:O	1:M:316:TYR:HA	2.19	0.42
1:M:92:ASP:N	1:M:92:ASP:OD2	2.53	0.42
1:N:457:MSE:O	1:N:458:ARG:CD	2.68	0.42
1:Q:443:ASP:O	1:Q:446:THR:HG22	2.19	0.42
1:R:15:PHE:CE2	1:R:19:TRP:NE1	2.88	0.42
1:V:123:VAL:HG13	1:V:304:PHE:CE1	2.55	0.42
1:V:35:PHE:CE1	1:V:321:ARG:NH1	2.86	0.42
1:X:344:THR:CG2	1:X:344:THR:O	2.68	0.42
1:V:301:VAL:HG23	1:V:439:ASN:HB3	2.01	0.42
1:O:511:ARG:HA	1:O:513:ARG:CD	2.45	0.42
1:Q:248:LYS:HE2	1:Q:513:ARG:HH12	1.84	0.42
1:R:160:SER:O	1:R:161:ASN:ND2	2.46	0.42
1:M:301:VAL:HG23	1:M:439:ASN:HB3	2.00	0.42
1:N:301:VAL:HA	1:N:302:PRO:HD3	1.77	0.42
1:N:228:LYS:O	1:N:229:LYS:HB3	2.20	0.42
1:I:273:ARG:HH22	1:I:453:LEU:HD11	1.85	0.42
1:E:273:ARG:HH22	1:E:453:LEU:HD11	1.85	0.42
1:D:282:THR:HG23	1:D:287:LEU:CD1	2.43	0.42
1:P:554:LEU:HD12	1:P:557:PHE:CD2	2.52	0.42
1:P:24:GLU:O	1:P:26:ARG:N	2.51	0.42
1:S:61:ARG:CB	1:S:62:PRO:HD3	2.49	0.42
1:K:209:PHE:N	1:K:210:PRO:CD	2.82	0.42
1:C:552:LEU:O	1:C:556:TYR:HD2	2.03	0.42
1:T:40:GLN:HB2	1:T:40:GLN:HE21	1.58	0.42
1:C:386:THR:HG21	1:C:389:LEU:HD21	2.02	0.42
1:E:552:LEU:O	1:E:556:TYR:HD2	2.03	0.42
1:V:578:GLN:HG2	1:V:596:ALA:CB	2.50	0.42
3:T:719:HOH:O	1:W:430:VAL:HG13	2.18	0.42
1:E:229:LYS:HD2	1:E:270:GLN:HG3	2.01	0.42
1:K:229:LYS:HG2	1:K:272:LYS:CG	2.50	0.42
2:Y:101:ALA:N	2:Y:102:PRO:CD	2.82	0.42
1:W:107:ALA:HA	1:W:146:ARG:HB3	2.01	0.42
1:X:311:GLU:O	1:X:312:ASP:HB2	2.20	0.42
1:T:591:GLN:HA	1:T:594:VAL:CG2	2.50	0.42
1:A:130:THR:HG23	1:A:450:GLN:NE2	2.35	0.42
1:A:68:VAL:HG22	1:A:119:ILE:HD12	2.02	0.42
1:A:93:VAL:O	1:A:97:MSE:HG3	2.20	0.42
1:C:68:VAL:HG22	1:C:119:ILE:HD12	2.02	0.42
1:D:130:THR:HG23	1:D:450:GLN:NE2	2.35	0.42
1:D:301:VAL:HG23	1:D:439:ASN:HB3	2.02	0.42
1:G:130:THR:HG23	1:G:450:GLN:NE2	2.35	0.42
1:G:437:GLN:HA	1:G:440:MSE:HB2	2.01	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:H:434:THR:HG23	1:H:435:VAL:N	2.35	0.42
1:H:48:TYR:O	1:H:49:THR:CB	2.64	0.42
1:I:528:LYS:CD	1:I:560:LEU:HD21	2.50	0.42
1:J:35:PHE:HE1	1:J:321:ARG:NH1	2.13	0.42
1:J:301:VAL:HG23	1:J:439:ASN:HB3	2.02	0.42
1:L:528:LYS:CD	1:L:560:LEU:HD21	2.50	0.42
1:M:431:ALA:HA	1:M:434:THR:HG22	2.02	0.42
1:N:344:THR:CG2	1:N:344:THR:O	2.67	0.42
1:L:93:VAL:O	1:L:97:MSE:HG3	2.20	0.42
1:S:306:GLU:O	1:S:316:TYR:HA	2.20	0.42
1:U:24:GLU:CD	1:U:24:GLU:N	2.73	0.42
1:V:212:LEU:HD12	1:V:212:LEU:N	2.35	0.42
1:W:528:LYS:HD2	1:W:560:LEU:HD21	2.01	0.42
1:X:78:VAL:CG1	1:X:79:LEU:H	2.33	0.42
1:P:115:VAL:HA	1:P:118:GLN:HB3	2.02	0.42
1:S:330:ARG:HD2	1:S:409:THR:CG2	2.41	0.42
1:M:160:SER:O	1:M:161:ASN:ND2	2.45	0.42
1:Q:330:ARG:O	1:Q:334:MSE:HB2	2.20	0.42
1:G:265:LYS:HA	1:G:265:LYS:HD2	1.96	0.42
1:D:274:ARG:HD3	1:D:296:GLU:O	2.19	0.42
1:D:248:LYS:HZ1	1:D:513:ARG:HH12	1.66	0.42
1:H:274:ARG:HD3	1:H:296:GLU:O	2.19	0.42
1:C:274:ARG:HD3	1:C:296:GLU:O	2.19	0.42
1:E:251:ILE:HD11	1:E:275:ARG:NH2	2.34	0.42
1:E:274:ARG:HD3	1:E:296:GLU:O	2.19	0.42
1:B:282:THR:HG23	1:B:287:LEU:CD1	2.43	0.42
1:Q:266:ILE:HA	1:Q:266:ILE:HD13	1.89	0.42
1:P:266:ILE:O	1:P:267:ALA:HB2	2.18	0.42
1:N:265:LYS:O	1:N:266:ILE:HG12	2.20	0.42
1:V:236:GLN:H	1:V:265:LYS:CB	2.33	0.42
1:T:383:ASP:C	1:T:385:PRO:HD3	2.40	0.42
1:X:252:LYS:HZ1	1:X:256:ASP:HB3	1.83	0.42
1:N:280:ILE:HD12	1:N:280:ILE:N	2.35	0.42
1:W:280:ILE:HG22	1:W:287:LEU:HD13	2.01	0.42
1:R:232:ALA:HB2	1:R:269:ARG:O	2.19	0.42
1:I:376:ARG:HB2	1:J:352:TRP:CD2	2.55	0.42
1:J:567:MSE:SE	1:K:576:LEU:HD13	2.69	0.42
2:Z:101:ALA:N	2:Z:102:PRO:CD	2.82	0.42
1:F:386:THR:HG21	1:F:389:LEU:HD21	2.02	0.42
1:X:380:ASN:O	1:X:381:SER:CB	2.68	0.42
1:M:387:GLN:HB2	1:O:390:ALA:HB2	2.01	0.42
1:C:229:LYS:HG2	1:C:272:LYS:CG	2.50	0.42

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:229:LYS:HG2	1:F:272:LYS:CG	2.50	0.42
1:L:426:ASN:O	1:L:427:GLY:C	2.58	0.42
1:H:451:ASP:O	1:H:456:ALA:N	2.41	0.42
1:T:191:TYR:O	1:T:288:LYS:HE2	2.20	0.42
1:T:190:LYS:HA	1:T:190:LYS:HE3	2.00	0.42
1:U:270:GLN:HA	1:U:270:GLN:OE1	2.19	0.42
1:O:270:GLN:HA	1:O:270:GLN:OE1	2.20	0.42
1:W:542:THR:HA	1:W:543:PRO:HD3	1.87	0.42
1:M:76:ILE:HD12	1:M:433:ASP:OD1	2.20	0.42
1:L:368:ASP:O	2:Z:134:ARG:HG3	2.20	0.42
1:A:430:VAL:HG12	1:A:431:ALA:N	2.35	0.42
1:V:76:ILE:HD12	1:V:433:ASP:OD1	2.18	0.42
1:P:591:GLN:HA	1:P:594:VAL:CG2	2.50	0.42
1:S:219:ILE:HG13	1:S:220:ALA:N	2.35	0.42
1:V:503:GLU:HB3	1:V:508:ASN:HB3	2.02	0.42
1:B:130:THR:HG23	1:B:450:GLN:NE2	2.35	0.41
1:B:80:TYR:CZ	1:B:448:VAL:HG22	2.54	0.41
1:C:35:PHE:HZ	1:C:321:ARG:NE	2.12	0.41
1:C:49:THR:O	1:C:50:THR:O	2.37	0.41
1:D:68:VAL:HG22	1:D:119:ILE:HD12	2.02	0.41
1:D:437:GLN:HA	1:D:440:MSE:HB2	2.01	0.41
1:E:434:THR:HG23	1:E:435:VAL:N	2.35	0.41
1:G:38:VAL:HG21	1:G:324:LYS:HD2	2.01	0.41
1:G:434:THR:HG23	1:G:435:VAL:N	2.35	0.41
1:G:43:ASP:OD2	1:G:43:ASP:N	2.52	0.41
1:I:15:PHE:HE2	1:I:19:TRP:NE1	2.18	0.41
1:I:78:VAL:HG21	1:I:444:LEU:CD1	2.21	0.41
1:I:99:ARG:HH12	1:I:530:GLN:NE2	2.14	0.41
1:J:165:MSE:HE1	1:J:435:VAL:HB	2.02	0.41
1:J:93:VAL:O	1:J:97:MSE:HG3	2.20	0.41
1:K:127:ARG:HG2	1:K:147:GLU:HB2	2.02	0.41
1:K:130:THR:HG23	1:K:450:GLN:NE2	2.35	0.41
1:K:437:GLN:HA	1:K:440:MSE:HB2	2.00	0.41
1:L:127:ARG:HG2	1:L:147:GLU:HB2	2.02	0.41
1:M:26:ARG:O	1:M:27:ARG:C	2.58	0.41
1:M:458:ARG:HD3	1:M:458:ARG:HA	1.83	0.41
1:O:24:GLU:HG3	1:O:313:LYS:HE2	2.01	0.41
1:K:528:LYS:CD	1:K:560:LEU:HD21	2.50	0.41
1:L:165:MSE:HE1	1:L:435:VAL:HB	2.02	0.41
1:O:528:LYS:NZ	1:O:560:LEU:HD21	2.35	0.41
1:R:101:ASP:HB3	1:R:138:THR:HG21	2.01	0.41
1:R:35:PHE:HZ	1:R:321:ARG:NE	2.13	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:24:GLU:HG3	1:S:313:LYS:HE2	2.02	0.41
1:S:443:ASP:O	1:S:446:THR:HG22	2.20	0.41
1:S:27:ARG:NH2	1:U:41:TRP:HE1	2.18	0.41
1:U:528:LYS:NZ	1:U:560:LEU:HD21	2.34	0.41
1:U:92:ASP:N	1:U:92:ASP:OD2	2.53	0.41
1:V:528:LYS:HD2	1:V:560:LEU:HD21	2.01	0.41
1:W:101:ASP:HB3	1:W:138:THR:HG21	2.01	0.41
1:P:15:PHE:CE2	1:P:19:TRP:NE1	2.88	0.41
1:O:298:ILE:HA	1:O:299:PRO:HD3	1.79	0.41
1:U:511:ARG:HA	1:U:513:ARG:CD	2.47	0.41
1:Q:115:VAL:HA	1:Q:118:GLN:HB3	2.02	0.41
1:S:334:MSE:HE1	1:T:407:ALA:HB1	2.02	0.41
1:R:301:VAL:HG23	1:R:439:ASN:HB3	2.02	0.41
1:H:273:ARG:HH22	1:H:453:LEU:HD11	1.85	0.41
1:I:251:ILE:HD11	1:I:275:ARG:NH2	2.35	0.41
1:I:274:ARG:HD3	1:I:296:GLU:O	2.19	0.41
1:F:273:ARG:HD2	1:F:275:ARG:HD2	2.01	0.41
1:L:273:ARG:HD2	1:L:275:ARG:HD2	2.02	0.41
1:F:198:ILE:HA	1:F:199:PRO:HD3	1.64	0.41
1:L:282:THR:HG23	1:L:287:LEU:CD1	2.43	0.41
1:M:266:ILE:O	1:M:267:ALA:HB2	2.19	0.41
1:N:236:GLN:H	1:N:265:LYS:CB	2.33	0.41
1:U:554:LEU:HD21	1:X:564:GLY:CA	2.46	0.41
1:G:209:PHE:N	1:G:210:PRO:CD	2.82	0.41
1:W:262:GLY:O	1:W:263:PHE:HB3	2.21	0.41
1:U:579:MSE:HB2	1:U:581:VAL:HG12	2.02	0.41
1:M:575:GLN:O	1:M:579:MSE:CG	2.66	0.41
1:R:384:LEU:HD22	1:R:384:LEU:N	2.33	0.41
1:Q:554:LEU:O	1:Q:557:PHE:HB3	2.20	0.41
1:V:557:PHE:CE2	1:W:563:LYS:HD3	2.55	0.41
1:W:387:GLN:HG2	1:W:387:GLN:H	1.58	0.41
1:A:598:GLN:HB2	1:A:601:GLN:HB3	2.02	0.41
1:R:380:ASN:O	1:R:381:SER:CB	2.68	0.41
1:V:430:VAL:HG11	3:W:719:HOH:O	2.16	0.41
1:G:229:LYS:HG2	1:G:272:LYS:CG	2.50	0.41
1:L:229:LYS:HG2	1:L:272:LYS:CG	2.50	0.41
1:D:229:LYS:HG2	1:D:272:LYS:CG	2.50	0.41
1:D:426:ASN:O	1:D:427:GLY:C	2.58	0.41
1:C:568:MSE:HG3	1:E:551:LEU:CD2	2.50	0.41
1:Q:147:GLU:HA	1:Q:148:PRO:HD3	1.81	0.41
1:N:57:PHE:N	1:N:57:PHE:CD1	2.88	0.41
1:V:191:TYR:O	1:V:288:LYS:HE2	2.19	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:T:280:ILE:HD12	1:T:280:ILE:N	2.35	0.41
1:J:252:LYS:O	1:J:252:LYS:HE3	2.19	0.41
1:K:430:VAL:HG12	1:K:431:ALA:N	2.35	0.41
1:E:430:VAL:HG12	1:E:431:ALA:N	2.35	0.41
1:B:123:VAL:HG21	1:B:153:CYS:HB3	2.02	0.41
1:B:434:THR:HG23	1:B:435:VAL:N	2.35	0.41
1:B:93:VAL:O	1:B:97:MSE:HG3	2.20	0.41
1:D:440:MSE:O	1:D:444:LEU:CD2	2.69	0.41
1:D:49:THR:O	1:D:50:THR:C	2.56	0.41
1:F:212:LEU:N	1:F:212:LEU:HD12	2.34	0.41
1:F:440:MSE:O	1:F:444:LEU:CD2	2.69	0.41
1:F:94:LEU:HD23	1:F:94:LEU:O	2.19	0.41
1:G:24:GLU:C	1:G:26:ARG:N	2.73	0.41
1:G:528:LYS:HZ2	1:G:560:LEU:HD21	1.82	0.41
1:I:130:THR:HG23	1:I:450:GLN:NE2	2.35	0.41
1:I:68:VAL:HG22	1:I:119:ILE:HD12	2.02	0.41
1:J:130:THR:HG23	1:J:450:GLN:NE2	2.35	0.41
1:J:316:TYR:O	1:J:321:ARG:NH1	2.54	0.41
1:L:68:VAL:HG22	1:L:119:ILE:HD12	2.02	0.41
1:R:41:TRP:HE3	1:R:42:ASP:HB3	1.82	0.41
1:R:444:LEU:O	1:R:445:GLU:C	2.58	0.41
1:S:457:MSE:O	1:S:458:ARG:CD	2.69	0.41
1:Q:301:VAL:HG23	1:Q:439:ASN:HB3	2.02	0.41
1:X:11:ILE:O	1:X:15:PHE:HB2	2.20	0.41
1:S:273:ARG:HH22	1:S:453:LEU:CD2	2.31	0.41
1:K:251:ILE:HD11	1:K:275:ARG:NH2	2.35	0.41
1:R:236:GLN:H	1:R:265:LYS:CB	2.33	0.41
1:U:236:GLN:H	1:U:265:LYS:CB	2.33	0.41
1:S:236:GLN:H	1:S:265:LYS:CB	2.33	0.41
1:R:193:LEU:HD22	1:R:287:LEU:HB3	2.01	0.41
1:V:280:ILE:N	1:V:280:ILE:HD12	2.34	0.41
1:B:376:ARG:HB2	1:C:352:TRP:CD2	2.55	0.41
1:H:378:ASP:O	1:H:381:SER:O	2.37	0.41
1:V:276:VAL:CG2	1:V:293:ILE:HG23	2.49	0.41
1:G:579:MSE:CB	1:G:581:VAL:HG12	2.50	0.41
1:T:380:ASN:O	1:T:381:SER:CB	2.68	0.41
1:W:380:ASN:O	1:W:381:SER:CB	2.68	0.41
1:D:552:LEU:O	1:D:556:TYR:HD2	2.03	0.41
1:U:583:LYS:HA	1:U:584:PRO:HD3	1.92	0.41
1:R:340:ILE:O	1:R:344:THR:HG21	2.20	0.41
1:B:229:LYS:HG2	1:B:272:LYS:CG	2.50	0.41
1:A:229:LYS:HG2	1:A:272:LYS:CG	2.50	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:430:VAL:HG11	3:V:719:HOH:O	2.19	0.41
1:T:349:PRO:HB2	1:T:351:PHE:CE2	2.55	0.41
1:P:245:SER:HG	1:P:247:PHE:HE1	1.62	0.41
1:P:280:ILE:N	1:P:280:ILE:HD12	2.35	0.41
1:L:397:VAL:HG12	1:L:397:VAL:O	2.20	0.41
1:H:395:PRO:HD2	1:I:398:PRO:HB3	2.02	0.41
2:Z:156:HIS:C	2:Z:158:PHE:H	2.23	0.41
1:P:310:VAL:HB	1:P:311:GLU:H	1.64	0.41
1:A:434:THR:HG23	1:A:435:VAL:N	2.35	0.41
1:C:130:THR:HG23	1:C:450:GLN:NE2	2.35	0.41
1:C:426:ASN:O	1:C:427:GLY:C	2.58	0.41
1:C:528:LYS:CD	1:C:560:LEU:HD21	2.50	0.41
1:D:434:THR:HG23	1:D:435:VAL:N	2.35	0.41
1:E:130:THR:HG23	1:E:450:GLN:NE2	2.35	0.41
1:E:437:GLN:HA	1:E:440:MSE:HB2	2.00	0.41
1:F:434:THR:HG23	1:F:435:VAL:N	2.35	0.41
1:F:444:LEU:O	1:F:447:TYR:N	2.52	0.41
1:G:426:ASN:O	1:G:427:GLY:C	2.59	0.41
1:G:49:THR:O	1:G:50:THR:O	2.37	0.41
1:I:38:VAL:HG21	1:I:324:LYS:HD2	2.01	0.41
1:J:68:VAL:HG22	1:J:119:ILE:HD12	2.02	0.41
1:K:93:VAL:O	1:K:97:MSE:HG3	2.20	0.41
1:L:47:GLN:CD	1:L:47:GLN:N	2.72	0.41
1:N:528:LYS:HD2	1:N:560:LEU:HD21	2.03	0.41
2:Y:28:VAL:HG11	2:Y:97:ALA:HA	1.88	0.41
1:L:444:LEU:O	1:L:447:TYR:N	2.52	0.41
1:N:123:VAL:HG22	1:N:316:TYR:HE2	1.84	0.41
1:P:41:TRP:HE1	1:Q:27:ARG:HH21	1.67	0.41
1:Q:212:LEU:HD22	1:R:26:ARG:HG2	2.03	0.41
1:S:24:GLU:CD	1:S:24:GLU:N	2.74	0.41
1:T:24:GLU:HG3	1:T:313:LYS:HE2	2.02	0.41
1:U:79:LEU:N	1:U:519:ASP:O	2.53	0.41
1:W:431:ALA:HA	1:W:434:THR:HG22	2.01	0.41
1:X:29:ALA:O	1:X:33:LEU:HG	2.19	0.41
1:X:528:LYS:HD2	1:X:560:LEU:HD21	2.02	0.41
1:S:511:ARG:HA	1:S:513:ARG:CD	2.47	0.41
1:O:301:VAL:HG23	1:O:439:ASN:HB3	2.02	0.41
1:T:248:LYS:HE2	1:T:513:ARG:HH12	1.85	0.41
1:R:298:ILE:HA	1:R:299:PRO:HD3	1.78	0.41
1:U:413:LYS:HE2	1:U:413:LYS:HB3	1.84	0.41
1:K:227:GLU:OE2	1:K:227:GLU:N	2.47	0.41
1:G:274:ARG:HD3	1:G:296:GLU:O	2.19	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:248:LYS:HZ1	1:G:513:ARG:HH12	1.67	0.41
1:B:273:ARG:HD2	1:B:275:ARG:HD2	2.02	0.41
1:C:15:PHE:HE2	1:C:19:TRP:NE1	2.18	0.41
1:A:246:TYR:HD2	1:A:511:ARG:CB	2.28	0.41
1:A:273:ARG:HD2	1:A:275:ARG:HD2	2.02	0.41
1:C:251:ILE:HD11	1:C:275:ARG:NH2	2.35	0.41
1:S:554:LEU:HD12	1:S:557:PHE:CD2	2.53	0.41
1:U:265:LYS:O	1:U:266:ILE:HG12	2.19	0.41
1:M:454:ALA:O	1:M:455:THR:C	2.58	0.41
1:S:282:THR:HG23	1:S:287:LEU:CD1	2.47	0.41
1:W:457:MSE:O	1:W:458:ARG:CD	2.68	0.41
1:R:61:ARG:CB	1:R:62:PRO:HD3	2.51	0.41
1:L:209:PHE:N	1:L:210:PRO:CD	2.82	0.41
1:P:66:LYS:HZ3	1:P:420:VAL:HG21	1.85	0.41
1:B:552:LEU:O	1:B:556:TYR:HD2	2.03	0.41
1:J:579:MSE:CB	1:J:581:VAL:HG12	2.49	0.41
1:K:579:MSE:CB	1:K:581:VAL:HG12	2.50	0.41
1:J:229:LYS:HG2	1:J:272:LYS:CG	2.50	0.41
1:R:583:LYS:HA	1:R:584:PRO:HD3	1.91	0.41
2:Y:63:ILE:CG2	2:Y:123:LEU:HB3	2.51	0.41
1:E:426:ASN:O	1:E:427:GLY:C	2.59	0.41
1:A:255:ILE:O	1:A:258:LEU:N	2.53	0.41
1:I:568:MSE:HG3	1:J:551:LEU:CD2	2.50	0.41
1:A:568:MSE:HG3	1:B:551:LEU:CD2	2.50	0.41
1:R:227:GLU:HG2	1:R:227:GLU:O	2.20	0.41
1:W:227:GLU:O	1:W:227:GLU:HG2	2.20	0.41
1:P:147:GLU:HA	1:P:148:PRO:HD3	1.82	0.41
1:T:371:TYR:HE2	1:T:373:LEU:HD21	1.85	0.41
1:O:174:THR:N	3:O:705:HOH:O	2.53	0.41
1:B:397:VAL:O	1:B:397:VAL:HG12	2.20	0.41
2:Z:124:TYR:O	2:Z:124:TYR:CG	2.73	0.41
1:A:157:ILE:CG1	1:A:157:ILE:O	2.69	0.41
1:B:157:ILE:O	1:B:157:ILE:CG1	2.69	0.41
1:I:157:ILE:O	1:I:157:ILE:CG1	2.69	0.41
1:M:591:GLN:HA	1:M:594:VAL:CG2	2.50	0.41
1:O:177:HIS:O	1:O:218:GLN:HA	2.21	0.41
1:Q:591:GLN:HA	1:Q:594:VAL:CG2	2.50	0.41
1:A:165:MSE:HE1	1:A:435:VAL:HB	2.02	0.41
1:A:24:GLU:C	1:A:26:ARG:N	2.73	0.41
1:A:313:LYS:HD3	1:A:314:GLU:N	2.36	0.41
1:A:316:TYR:O	1:A:321:ARG:NH1	2.54	0.41
1:B:24:GLU:CD	1:B:24:GLU:N	2.71	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:316:TYR:O	1:B:321:ARG:NH1	2.53	0.41
1:B:165:MSE:HE1	1:B:435:VAL:HB	2.02	0.41
1:D:316:TYR:O	1:D:321:ARG:NH1	2.54	0.41
1:E:15:PHE:HE2	1:E:19:TRP:NE1	2.18	0.41
1:E:24:GLU:C	1:E:26:ARG:N	2.73	0.41
1:F:118:GLN:HB2	1:F:118:GLN:HE21	1.77	0.41
1:F:32:ASP:CG	1:F:316:TYR:CE2	2.94	0.41
1:G:123:VAL:HG21	1:G:153:CYS:HB3	2.02	0.41
1:G:316:TYR:O	1:G:321:ARG:NH1	2.54	0.41
1:J:32:ASP:CG	1:J:316:TYR:CE2	2.94	0.41
1:L:301:VAL:HG23	1:L:439:ASN:HB3	2.02	0.41
1:M:24:GLU:OE1	1:M:24:GLU:N	2.54	0.41
1:M:528:LYS:HD2	1:M:560:LEU:HD21	2.02	0.41
1:O:444:LEU:O	1:O:447:TYR:N	2.53	0.41
1:L:80:TYR:CZ	1:L:448:VAL:HG22	2.54	0.41
1:N:310:VAL:HB	1:N:311:GLU:H	1.67	0.41
1:Q:100:THR:HG22	1:Q:138:THR:HG22	2.02	0.41
1:Q:24:GLU:CD	1:Q:24:GLU:N	2.74	0.41
1:Q:72:ARG:HG2	1:R:434:THR:HG21	2.03	0.41
1:R:78:VAL:HG11	1:R:444:LEU:CG	2.50	0.41
1:S:343:ARG:HG2	1:S:343:ARG:H	1.54	0.41
1:S:444:LEU:O	1:S:445:GLU:C	2.57	0.41
1:T:457:MSE:O	1:T:458:ARG:CD	2.68	0.41
1:V:101:ASP:HB3	1:V:138:THR:HG21	2.01	0.41
1:W:164:LEU:HD22	1:W:169:ASP:OD1	2.20	0.41
1:K:236:GLN:HE21	1:K:265:LYS:HZ1	1.68	0.41
1:G:273:ARG:HH22	1:G:453:LEU:HD11	1.85	0.41
1:R:451:ASP:O	1:R:453:LEU:N	2.53	0.41
1:I:273:ARG:HD2	1:I:275:ARG:HD2	2.01	0.41
1:W:458:ARG:HA	1:W:458:ARG:HD3	1.83	0.41
1:B:352:TRP:HB2	1:B:355:GLN:HG2	2.03	0.41
1:G:209:PHE:CE2	1:G:214:GLN:HG2	2.56	0.41
1:S:262:GLY:O	1:S:263:PHE:HB3	2.20	0.41
1:A:209:PHE:N	1:A:210:PRO:CD	2.82	0.41
1:D:352:TRP:HB2	1:D:355:GLN:HG2	2.03	0.41
1:E:209:PHE:CE2	1:E:214:GLN:HG2	2.56	0.41
1:X:575:GLN:O	1:X:579:MSE:CG	2.68	0.41
1:T:310:VAL:HB	1:T:311:GLU:H	1.70	0.41
1:M:293:ILE:HG12	1:M:294:ALA:H	1.85	0.41
1:D:579:MSE:CB	1:D:581:VAL:HG12	2.49	0.41
1:F:598:GLN:HB2	1:F:601:GLN:HB3	2.03	0.41
1:R:387:GLN:O	1:R:389:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:P:191:TYR:O	1:P:288:LYS:HE2	2.20	0.41
1:K:255:ILE:O	1:K:258:LEU:N	2.53	0.41
1:O:191:TYR:O	1:O:288:LYS:HE2	2.21	0.41
1:S:76:ILE:HD12	1:S:433:ASP:OD1	2.19	0.41
1:E:157:ILE:CG1	1:E:157:ILE:O	2.68	0.41
1:P:270:GLN:HA	1:P:270:GLN:OE1	2.19	0.41
2:Z:56:TRP:N	2:Z:56:TRP:CD1	2.89	0.41
1:P:371:TYR:HE2	1:P:373:LEU:HD21	1.85	0.41
1:M:399:GLN:OE1	1:N:396:GLU:O	2.38	0.41
2:Y:156:HIS:C	2:Y:158:PHE:H	2.23	0.41
1:W:371:TYR:HE2	1:W:373:LEU:HD21	1.86	0.41
1:P:372:TYR:CE2	1:Q:348:LYS:HB2	2.56	0.41
1:M:438:LEU:HD12	1:M:441:ARG:NH1	2.35	0.41
1:X:349:PRO:HG3	1:X:391:TYR:CE1	2.55	0.41
1:A:15:PHE:HE2	1:A:19:TRP:NE1	2.18	0.41
1:B:15:PHE:HE2	1:B:19:TRP:NE1	2.18	0.41
1:C:99:ARG:HH12	1:C:530:GLN:NE2	2.14	0.41
1:E:165:MSE:HE1	1:E:435:VAL:HB	2.02	0.41
1:E:313:LYS:HD3	1:E:314:GLU:N	2.36	0.41
1:E:93:VAL:O	1:E:97:MSE:HG3	2.20	0.41
1:F:35:PHE:HZ	1:F:321:ARG:NE	2.12	0.41
1:G:313:LYS:HD3	1:G:314:GLU:N	2.36	0.41
1:H:301:VAL:HG23	1:H:439:ASN:HB3	2.02	0.41
1:H:80:TYR:HB2	1:H:95:MSE:HG2	2.03	0.41
1:I:165:MSE:HE1	1:I:435:VAL:HB	2.02	0.41
1:K:316:TYR:O	1:K:321:ARG:NH1	2.54	0.41
1:L:316:TYR:O	1:L:321:ARG:NH1	2.54	0.41
1:L:38:VAL:HG21	1:L:324:LYS:HD2	2.01	0.41
1:L:40:GLN:O	1:L:41:TRP:CB	2.55	0.41
1:M:164:LEU:HD22	1:M:169:ASP:OD1	2.20	0.41
1:L:80:TYR:HB2	1:L:95:MSE:HG2	2.03	0.41
2:Z:78:GLU:O	2:Z:79:GLY:C	2.59	0.41
1:N:440:MSE:O	1:N:443:ASP:HB3	2.20	0.41
1:N:80:TYR:OH	1:N:444:LEU:HD12	2.20	0.41
1:Q:444:LEU:O	1:Q:445:GLU:C	2.58	0.41
1:R:24:GLU:CD	1:R:24:GLU:N	2.74	0.41
1:R:431:ALA:HA	1:R:434:THR:HG22	2.01	0.41
1:R:458:ARG:HA	1:R:458:ARG:HD3	1.83	0.41
1:W:528:LYS:NZ	1:W:560:LEU:HD21	2.35	0.41
1:X:443:ASP:O	1:X:446:THR:HG22	2.21	0.41
1:U:510:ILE:O	1:U:513:ARG:HD2	2.20	0.41
1:W:301:VAL:HG23	1:W:439:ASN:HB3	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:M:301:VAL:HA	1:M:302:PRO:HD3	1.75	0.41
1:M:71:MSE:CE	1:M:115:VAL:HB	2.50	0.41
1:K:273:ARG:HH22	1:K:453:LEU:HD11	1.85	0.41
1:B:273:ARG:NH1	1:B:275:ARG:HE	2.19	0.41
1:U:274:ARG:O	1:U:275:ARG:HD2	2.20	0.41
1:H:273:ARG:NH1	1:H:275:ARG:HE	2.19	0.41
1:J:198:ILE:HA	1:J:199:PRO:HD3	1.64	0.41
1:L:209:PHE:CE2	1:L:214:GLN:HG2	2.56	0.41
1:P:577:ILE:HG12	1:P:582:LYS:CG	2.45	0.41
1:B:276:VAL:HG23	1:B:293:ILE:HG22	2.03	0.41
1:A:378:ASP:O	1:A:381:SER:O	2.37	0.41
1:P:563:LYS:HD3	1:Q:557:PHE:CE2	2.55	0.41
1:C:598:GLN:HB2	1:C:601:GLN:HB3	2.03	0.41
1:G:598:GLN:HB2	1:G:601:GLN:HB3	2.02	0.41
1:K:598:GLN:HB2	1:K:601:GLN:HB3	2.02	0.41
1:D:386:THR:HG21	1:D:389:LEU:HD21	2.02	0.41
1:O:380:ASN:O	1:O:381:SER:CB	2.69	0.41
1:K:542:THR:HA	1:K:543:PRO:HD3	1.82	0.41
1:L:313:LYS:HD3	1:L:314:GLU:N	2.36	0.41
1:T:387:GLN:O	1:T:389:LEU:HG	2.20	0.41
1:K:313:LYS:HD3	1:K:314:GLU:N	2.36	0.41
1:H:310:VAL:HB	1:H:311:GLU:H	1.78	0.41
1:M:390:ALA:HB2	1:N:387:GLN:CB	2.50	0.41
1:A:426:ASN:O	1:A:427:GLY:C	2.58	0.41
1:Q:394:ASN:HA	1:Q:395:PRO:HD3	1.93	0.41
1:M:59:VAL:CG2	1:M:59:VAL:O	2.69	0.41
1:O:77:ASP:HB2	1:O:523:SER:HB2	2.02	0.41
1:P:179:MSE:O	1:P:217:ILE:HD12	2.21	0.41
1:W:270:GLN:HA	1:W:270:GLN:OE1	2.20	0.41
1:Q:270:GLN:OE1	1:Q:270:GLN:HA	2.20	0.41
1:D:397:VAL:HG12	1:D:397:VAL:O	2.20	0.41
1:V:591:GLN:HA	1:V:594:VAL:CG2	2.51	0.41
1:S:191:TYR:O	1:S:288:LYS:HE2	2.20	0.41
1:B:313:LYS:HD3	1:B:314:GLU:N	2.36	0.41
1:B:38:VAL:HG21	1:B:324:LYS:HD2	2.01	0.41
1:B:68:VAL:HG22	1:B:119:ILE:HD12	2.02	0.41
1:C:93:VAL:O	1:C:97:MSE:HG3	2.20	0.41
1:C:80:TYR:HB2	1:C:95:MSE:HG2	2.03	0.41
1:D:123:VAL:HG21	1:D:153:CYS:HB3	2.02	0.41
1:E:528:LYS:CD	1:E:560:LEU:HD21	2.50	0.41
1:F:313:LYS:HD3	1:F:314:GLU:N	2.36	0.41
1:F:165:MSE:HE1	1:F:435:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:F:80:TYR:HB2	1:F:95:MSE:HG2	2.03	0.41
1:I:301:VAL:HA	1:I:302:PRO:HD3	1.84	0.41
1:I:316:TYR:O	1:I:321:ARG:NH1	2.54	0.41
1:I:426:ASN:O	1:I:427:GLY:C	2.58	0.41
1:L:528:LYS:HD2	1:L:560:LEU:HD11	2.03	0.41
1:M:82:PRO:HB2	1:M:83:LYS:H	1.63	0.41
1:N:123:VAL:HG13	1:N:304:PHE:CE1	2.56	0.41
1:N:78:VAL:CG1	1:N:79:LEU:H	2.31	0.41
1:P:528:LYS:HD2	1:P:560:LEU:HD21	2.02	0.41
1:Q:212:LEU:N	1:Q:212:LEU:HD12	2.35	0.41
1:Q:29:ALA:O	1:Q:33:LEU:HG	2.20	0.41
1:Q:65:ARG:HG2	1:R:306:GLU:OE2	2.21	0.41
1:T:126:TRP:NE1	1:T:301:VAL:HG13	2.36	0.41
1:T:24:GLU:CD	1:T:24:GLU:N	2.74	0.41
1:V:35:PHE:O	1:V:37:ARG:N	2.46	0.41
1:V:431:ALA:HA	1:V:434:THR:HG22	2.02	0.41
1:V:444:LEU:O	1:V:447:TYR:N	2.53	0.41
1:X:444:LEU:O	1:X:445:GLU:C	2.58	0.41
2:Y:78:GLU:O	2:Y:79:GLY:C	2.59	0.41
1:M:273:ARG:HH22	1:M:453:LEU:CD2	2.31	0.41
1:M:451:ASP:O	1:M:453:LEU:N	2.53	0.41
1:P:298:ILE:HA	1:P:299:PRO:HD3	1.77	0.41
1:P:330:ARG:O	1:P:334:MSE:HB2	2.20	0.41
1:N:115:VAL:HA	1:N:118:GLN:HB3	2.03	0.41
1:N:413:LYS:HB3	1:N:413:LYS:HE2	1.87	0.41
1:P:228:LYS:O	1:P:229:LYS:HB3	2.21	0.41
1:J:236:GLN:CG	1:J:243:PRO:HB2	2.51	0.41
1:D:251:ILE:HD11	1:D:275:ARG:NH2	2.35	0.41
1:N:451:ASP:O	1:N:453:LEU:N	2.54	0.41
1:C:265:LYS:HA	1:C:265:LYS:HD2	1.96	0.41
1:C:273:ARG:NH1	1:C:275:ARG:HE	2.19	0.41
1:Q:236:GLN:H	1:Q:265:LYS:CB	2.33	0.41
1:M:198:ILE:HA	1:M:199:PRO:HD3	1.70	0.41
1:V:232:ALA:HB1	1:V:233:PHE:H	1.58	0.41
1:I:209:PHE:CE2	1:I:214:GLN:HG2	2.56	0.41
1:T:61:ARG:CB	1:T:62:PRO:HD3	2.50	0.41
1:C:583:LYS:HA	1:C:584:PRO:HD3	1.85	0.41
1:G:276:VAL:HG23	1:G:293:ILE:HG22	2.03	0.41
1:C:276:VAL:HG23	1:C:293:ILE:HG22	2.03	0.41
1:W:249:ARG:HH21	1:W:249:ARG:HD2	1.52	0.41
1:I:127:ARG:HG2	1:I:147:GLU:HB2	2.02	0.41
1:B:209:PHE:CE2	1:B:214:GLN:HG2	2.56	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:W:15:PHE:CE2	1:W:19:TRP:NE1	2.88	0.41
1:M:384:LEU:HD22	1:M:384:LEU:N	2.31	0.41
1:D:372:TYR:CD2	1:F:348:LYS:HB2	2.56	0.41
1:H:579:MSE:CB	1:H:581:VAL:HG12	2.49	0.41
2:Z:63:ILE:CG2	2:Z:123:LEU:HB3	2.51	0.41
1:W:57:PHE:CD1	1:W:57:PHE:N	2.88	0.41
1:R:156:VAL:O	1:R:156:VAL:CG2	2.69	0.41
1:J:157:ILE:O	1:J:157:ILE:CG1	2.68	0.41
1:Q:369:TYR:HA	1:Q:370:PRO:HD3	1.84	0.41
1:U:107:ALA:HA	1:U:146:ARG:HB3	2.02	0.41
1:W:591:GLN:HA	1:W:594:VAL:CG2	2.50	0.41
1:A:32:ASP:CG	1:A:316:TYR:CE2	2.94	0.41
1:A:301:VAL:HG23	1:A:439:ASN:HB3	2.02	0.41
1:B:127:ARG:HG2	1:B:147:GLU:HB2	2.03	0.41
1:D:32:ASP:CG	1:D:316:TYR:CE2	2.94	0.41
1:E:301:VAL:HG23	1:E:439:ASN:HB3	2.02	0.41
1:H:313:LYS:HD3	1:H:314:GLU:N	2.36	0.41
1:J:15:PHE:HE2	1:J:19:TRP:NE1	2.18	0.41
1:L:301:VAL:HA	1:L:302:PRO:HD3	1.85	0.41
1:N:306:GLU:O	1:N:316:TYR:HA	2.21	0.41
1:N:443:ASP:O	1:N:446:THR:HG22	2.20	0.41
1:R:14:ARG:CA	1:R:14:ARG:NE	2.70	0.41
1:U:123:VAL:HG22	1:U:316:TYR:HE2	1.83	0.41
1:O:159:ASP:OD2	1:O:161:ASN:N	2.51	0.41
1:G:236:GLN:CG	1:G:243:PRO:HB2	2.51	0.41
1:G:273:ARG:HD2	1:G:275:ARG:HD2	2.02	0.41
1:D:227:GLU:N	1:D:227:GLU:OE2	2.47	0.41
1:H:236:GLN:CG	1:H:243:PRO:HB2	2.51	0.41
1:I:273:ARG:NH1	1:I:275:ARG:HE	2.19	0.41
1:W:352:TRP:HB2	1:W:355:GLN:HG2	2.03	0.41
1:U:352:TRP:O	1:U:355:GLN:HG2	2.20	0.41
1:R:577:ILE:HG12	1:R:582:LYS:CG	2.45	0.41
1:J:567:MSE:HE2	1:K:554:LEU:HD22	2.02	0.41
1:R:231:THR:HG23	1:R:249:ARG:HE	1.85	0.41
1:U:404:MSE:HE1	1:X:334:MSE:HG3	2.02	0.41
1:W:311:GLU:HG3	1:W:311:GLU:H	1.76	0.41
1:P:564:GLY:O	1:Q:554:LEU:HD21	2.19	0.41
1:F:579:MSE:CB	1:F:581:VAL:HG12	2.49	0.41
1:F:343:ARG:HG2	1:F:343:ARG:H	1.52	0.41
1:P:276:VAL:CG2	1:P:293:ILE:HG23	2.50	0.41
1:X:387:GLN:O	1:X:389:LEU:HG	2.20	0.41
1:M:584:PRO:CG	1:M:593:LEU:HD12	2.48	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:387:GLN:HA	1:N:388:PRO:HD3	1.93	0.41
1:X:427:GLY:C	1:X:429:GLN:N	2.74	0.41
2:Y:119:GLY:O	2:Y:123:LEU:HD13	2.21	0.41
1:O:387:GLN:HB2	1:P:390:ALA:HB2	2.03	0.41
2:Z:135:ALA:HA	2:Z:136:PRO:HD3	1.92	0.41
1:S:108:LYS:HD2	1:T:438:LEU:HD11	2.01	0.41
1:T:369:TYR:HA	1:T:370:PRO:HD3	1.83	0.41
1:I:397:VAL:HG12	1:I:397:VAL:O	2.20	0.41
1:C:397:VAL:HG12	1:C:397:VAL:O	2.20	0.41
1:P:156:VAL:CG2	1:P:156:VAL:O	2.69	0.41
1:O:396:GLU:O	1:P:399:GLN:OE1	2.38	0.41
1:N:107:ALA:HA	1:N:146:ARG:HB3	2.02	0.41
1:G:430:VAL:HG12	1:G:431:ALA:N	2.35	0.41
1:Q:107:ALA:HA	1:Q:146:ARG:HB3	2.03	0.41
1:W:61:ARG:CB	1:W:62:PRO:HD3	2.50	0.41
1:T:174:THR:N	3:T:705:HOH:O	2.53	0.41
1:B:298:ILE:HA	1:B:299:PRO:HD3	1.82	0.41
1:C:24:GLU:CD	1:C:24:GLU:N	2.71	0.41
1:C:165:MSE:HE1	1:C:435:VAL:HB	2.02	0.41
1:F:301:VAL:HG23	1:F:439:ASN:HB3	2.02	0.41
1:F:316:TYR:O	1:F:321:ARG:NH1	2.53	0.41
1:F:426:ASN:O	1:F:427:GLY:C	2.58	0.41
1:G:32:ASP:CG	1:G:316:TYR:CE2	2.94	0.41
1:I:313:LYS:HD3	1:I:314:GLU:N	2.36	0.41
1:J:127:ARG:HG2	1:J:147:GLU:HB2	2.03	0.41
1:J:528:LYS:HD2	1:J:560:LEU:HD11	2.03	0.41
1:J:80:TYR:HB2	1:J:95:MSE:HG2	2.03	0.41
1:O:93:VAL:O	1:O:97:MSE:HG3	2.21	0.41
1:Q:340:ILE:O	1:Q:344:THR:HG21	2.21	0.41
1:L:130:THR:HG23	1:L:450:GLN:NE2	2.35	0.41
1:P:123:VAL:HG13	1:P:304:PHE:CE1	2.56	0.41
1:Q:444:LEU:O	1:Q:447:TYR:N	2.54	0.41
1:U:27:ARG:HH21	1:X:41:TRP:HE1	1.68	0.41
1:M:248:LYS:HZ1	1:M:513:ARG:HH12	1.69	0.41
1:U:248:LYS:HE2	1:U:513:ARG:HH12	1.84	0.41
1:T:248:LYS:HZ1	1:T:513:ARG:HH12	1.68	0.41
1:V:115:VAL:HA	1:V:118:GLN:HB3	2.02	0.41
1:Q:158:TRP:HH2	1:Q:302:PRO:HG3	1.80	0.41
1:X:274:ARG:O	1:X:275:ARG:HD2	2.19	0.41
1:K:236:GLN:CG	1:K:243:PRO:HB2	2.51	0.41
1:B:236:GLN:CG	1:B:243:PRO:HB2	2.51	0.41
1:D:273:ARG:HH22	1:D:453:LEU:HD11	1.85	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:273:ARG:HH22	1:A:453:LEU:HD11	1.85	0.41
1:T:266:ILE:HD13	1:T:266:ILE:HA	1.90	0.41
1:X:457:MSE:O	1:X:458:ARG:CD	2.69	0.41
1:S:280:ILE:HD12	1:S:280:ILE:N	2.35	0.41
1:Q:262:GLY:O	1:Q:263:PHE:HB3	2.20	0.41
1:J:376:ARG:NE	1:K:354:GLU:OE2	2.51	0.41
1:I:147:GLU:HA	1:I:148:PRO:HD3	1.86	0.41
1:U:40:GLN:HB2	1:U:40:GLN:HE21	1.58	0.41
1:A:552:LEU:O	1:A:556:TYR:HD2	2.03	0.41
1:L:386:THR:HG21	1:L:389:LEU:HD21	2.02	0.41
1:G:386:THR:HG21	1:G:389:LEU:HD21	2.02	0.41
1:W:387:GLN:O	1:W:389:LEU:HG	2.20	0.41
1:T:276:VAL:CG2	1:T:293:ILE:HG23	2.49	0.41
1:R:276:VAL:CG2	1:R:293:ILE:HG23	2.49	0.41
1:N:584:PRO:CG	1:N:593:LEU:HD12	2.49	0.41
1:R:438:LEU:HD12	1:R:441:ARG:NH1	2.36	0.41
1:W:40:GLN:HE21	1:W:40:GLN:HB2	1.61	0.41
1:A:127:ARG:HG2	1:A:147:GLU:HB2	2.02	0.41
1:U:349:PRO:HG3	1:U:391:TYR:CE1	2.55	0.41
1:X:591:GLN:HA	1:X:594:VAL:CG2	2.50	0.41
1:S:349:PRO:HG3	1:S:391:TYR:CE1	2.55	0.41
1:J:430:VAL:HG12	1:J:431:ALA:N	2.35	0.41
1:F:157:ILE:O	1:F:157:ILE:CG1	2.68	0.41
1:C:322:LEU:N	1:C:322:LEU:HD22	2.36	0.41
1:K:322:LEU:N	1:K:322:LEU:HD22	2.36	0.41
1:Q:156:VAL:O	1:Q:156:VAL:CG2	2.69	0.41
1:V:107:ALA:HA	1:V:146:ARG:HB3	2.03	0.41
1:Q:77:ASP:HB2	1:Q:523:SER:HB2	2.03	0.41
1:B:301:VAL:HG23	1:B:439:ASN:HB3	2.02	0.41
1:C:61:ARG:N	1:C:62:PRO:CD	2.84	0.41
1:D:313:LYS:HD3	1:D:314:GLU:N	2.36	0.41
1:E:298:ILE:HA	1:E:299:PRO:HD3	1.82	0.41
1:E:301:VAL:HA	1:E:302:PRO:HD3	1.84	0.41
1:F:123:VAL:HG21	1:F:153:CYS:HB3	2.02	0.41
1:F:68:VAL:HG22	1:F:119:ILE:HD12	2.02	0.41
1:H:164:LEU:HD22	1:H:169:ASP:CG	2.42	0.41
1:H:426:ASN:O	1:H:427:GLY:C	2.58	0.41
1:H:43:ASP:OD2	1:H:43:ASP:N	2.52	0.41
1:I:80:TYR:HB2	1:I:95:MSE:HG2	2.03	0.41
1:J:164:LEU:HD22	1:J:169:ASP:CG	2.42	0.41
1:J:298:ILE:HA	1:J:299:PRO:HD3	1.82	0.41
1:J:426:ASN:O	1:J:427:GLY:C	2.58	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:K:165:MSE:HE1	1:K:435:VAL:HB	2.02	0.41
1:K:24:GLU:C	1:K:26:ARG:N	2.73	0.41
1:O:103:ARG:NH1	1:P:517:TYR:HB2	2.36	0.41
1:B:32:ASP:CG	1:B:316:TYR:CE2	2.94	0.41
1:C:123:VAL:HG21	1:C:153:CYS:HB3	2.02	0.41
1:C:528:LYS:HD2	1:C:560:LEU:HD11	2.03	0.41
1:E:32:ASP:CG	1:E:316:TYR:CE2	2.94	0.41
1:E:80:TYR:HB2	1:E:95:MSE:HG2	2.03	0.41
1:F:528:LYS:HD2	1:F:560:LEU:HD11	2.03	0.41
1:G:164:LEU:HD22	1:G:169:ASP:CG	2.42	0.41
1:J:38:VAL:HG21	1:J:324:LYS:HD2	2.01	0.41
1:J:440:MSE:O	1:J:444:LEU:CD2	2.69	0.41
1:J:61:ARG:N	1:J:62:PRO:CD	2.84	0.41
1:J:94:LEU:HA	1:J:97:MSE:CE	2.37	0.41
1:K:32:ASP:CG	1:K:316:TYR:CE2	2.94	0.41
1:K:35:PHE:HE1	1:K:321:ARG:NH1	2.13	0.41
1:K:440:MSE:O	1:K:444:LEU:CD2	2.69	0.41
1:L:24:GLU:C	1:L:26:ARG:N	2.73	0.41
1:M:101:ASP:HB3	1:M:138:THR:HG21	2.02	0.41
1:M:440:MSE:O	1:M:443:ASP:HB3	2.21	0.41
1:N:311:GLU:O	1:N:312:ASP:HB2	2.21	0.41
1:P:41:TRP:HE3	1:P:42:ASP:HB3	1.80	0.41
1:Q:440:MSE:O	1:Q:443:ASP:HB3	2.21	0.41
1:R:79:LEU:N	1:R:519:ASP:O	2.53	0.41
1:T:298:ILE:HA	1:T:299:PRO:HD3	1.80	0.41
1:V:26:ARG:O	1:V:27:ARG:C	2.58	0.41
1:W:35:PHE:O	1:W:37:ARG:N	2.46	0.41
1:N:123:VAL:HG23	3:N:709:HOH:O	2.21	0.41
1:P:35:PHE:CE1	1:P:321:ARG:NH1	2.87	0.41
1:Q:61:ARG:CB	1:Q:62:PRO:HD3	2.50	0.41
1:R:123:VAL:HG22	1:R:316:TYR:HE2	1.84	0.41
1:U:24:GLU:HG3	1:U:313:LYS:HE2	2.03	0.41
1:U:35:PHE:HZ	1:U:321:ARG:NE	2.13	0.41
1:W:444:LEU:O	1:W:447:TYR:N	2.53	0.41
1:X:78:VAL:HG11	1:X:444:LEU:CG	2.48	0.41
1:M:11:ILE:O	1:M:15:PHE:HB2	2.21	0.41
1:V:298:ILE:HA	1:V:299:PRO:HD3	1.79	0.41
1:O:330:ARG:O	1:O:334:MSE:HB2	2.20	0.41
1:V:334:MSE:SE	1:V:405:LEU:HD11	2.71	0.41
1:M:115:VAL:HA	1:M:118:GLN:HB3	2.02	0.41
1:N:330:ARG:O	1:N:334:MSE:HB2	2.21	0.41
1:W:274:ARG:O	1:W:275:ARG:HD2	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:Q:228:LYS:O	1:Q:229:LYS:HB3	2.21	0.41
1:V:228:LYS:O	1:V:229:LYS:HB3	2.21	0.41
1:J:313:LYS:HD3	1:J:314:GLU:N	2.36	0.41
1:K:273:ARG:NH1	1:K:275:ARG:HE	2.19	0.41
1:B:265:LYS:HA	1:B:265:LYS:HD2	1.96	0.41
1:P:451:ASP:O	1:P:453:LEU:N	2.54	0.41
1:D:236:GLN:CG	1:D:243:PRO:HB2	2.51	0.41
1:H:273:ARG:HD2	1:H:275:ARG:HD2	2.02	0.41
1:A:236:GLN:CG	1:A:243:PRO:HB2	2.51	0.41
1:I:236:GLN:CG	1:I:243:PRO:HB2	2.51	0.41
1:C:236:GLN:CG	1:C:243:PRO:HB2	2.51	0.41
1:C:273:ARG:HH22	1:C:453:LEU:HD11	1.85	0.41
1:P:376:ARG:HB2	1:Q:352:TRP:CG	2.56	0.41
1:M:554:LEU:HD12	1:M:557:PHE:CD2	2.54	0.41
1:Q:236:GLN:CG	1:Q:243:PRO:HB2	2.51	0.41
1:N:383:ASP:C	1:N:385:PRO:HD3	2.40	0.41
1:W:236:GLN:H	1:W:265:LYS:CB	2.34	0.41
1:W:24:GLU:N	1:W:24:GLU:CD	2.74	0.41
1:M:236:GLN:H	1:M:265:LYS:CB	2.34	0.41
1:O:564:GLY:HA2	1:P:554:LEU:CD2	2.43	0.41
1:U:282:THR:HG23	1:U:287:LEU:CD1	2.46	0.41
1:X:236:GLN:H	1:X:265:LYS:CB	2.34	0.41
1:K:413:LYS:HB3	1:K:413:LYS:HE2	1.74	0.41
1:M:564:GLY:CA	1:O:554:LEU:HD21	2.48	0.41
1:U:577:ILE:HG12	1:U:582:LYS:CG	2.46	0.41
1:F:383:ASP:CB	1:F:385:PRO:HD3	2.51	0.41
1:C:352:TRP:HB2	1:C:355:GLN:HG2	2.03	0.41
1:K:209:PHE:CE2	1:K:214:GLN:HG2	2.56	0.41
1:C:383:ASP:CB	1:C:385:PRO:HD3	2.51	0.41
1:V:262:GLY:O	1:V:263:PHE:HB3	2.20	0.41
1:E:276:VAL:HG23	1:E:293:ILE:HG22	2.03	0.41
1:N:293:ILE:HG12	1:N:294:ALA:H	1.85	0.41
1:B:598:GLN:HB2	1:B:601:GLN:HB3	2.03	0.41
1:E:386:THR:HG21	1:E:389:LEU:HD21	2.02	0.41
1:I:598:GLN:HB2	1:I:601:GLN:HB3	2.03	0.41
1:B:386:THR:HG21	1:B:389:LEU:HD21	2.02	0.41
1:T:394:ASN:HA	1:T:395:PRO:HD3	1.91	0.41
1:J:552:LEU:O	1:J:556:TYR:HD2	2.03	0.41
1:P:578:GLN:HG2	1:P:596:ALA:CB	2.50	0.41
1:H:229:LYS:HG2	1:H:272:LYS:CG	2.50	0.41
1:S:387:GLN:O	1:S:389:LEU:HG	2.21	0.41
1:Q:387:GLN:O	1:Q:389:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:B:426:ASN:O	1:B:427:GLY:C	2.59	0.41
1:R:191:TYR:O	1:R:288:LYS:HE2	2.20	0.41
1:V:227:GLU:HG2	1:V:227:GLU:O	2.21	0.41
1:M:227:GLU:HG2	1:M:227:GLU:O	2.21	0.41
1:P:227:GLU:HG2	1:P:227:GLU:O	2.21	0.41
1:M:191:TYR:O	1:M:288:LYS:HE2	2.21	0.41
1:X:438:LEU:HD12	1:X:441:ARG:NH1	2.35	0.41
1:R:177:HIS:O	1:R:218:GLN:HA	2.21	0.41
1:P:349:PRO:HG3	1:P:391:TYR:CE1	2.55	0.41
1:G:157:ILE:O	1:G:157:ILE:CG1	2.69	0.41
1:J:322:LEU:HD22	1:J:322:LEU:N	2.36	0.41
1:W:349:PRO:HG3	1:W:391:TYR:CE1	2.56	0.41
1:O:591:GLN:HA	1:O:594:VAL:CG2	2.51	0.41
1:W:503:GLU:HB3	1:W:508:ASN:HB3	2.02	0.41
1:J:397:VAL:HG12	1:J:397:VAL:O	2.20	0.41
1:N:349:PRO:HG3	1:N:391:TYR:CE1	2.56	0.41
1:K:359:PHE:HD1	2:Y:129:ILE:HD11	1.86	0.41
1:F:430:VAL:HG12	1:F:431:ALA:N	2.35	0.41
1:C:369:TYR:HA	1:C:370:PRO:HD3	1.84	0.41
1:K:552:LEU:O	1:K:556:TYR:HD2	2.03	0.41
1:U:591:GLN:HA	1:U:594:VAL:CG2	2.51	0.41
1:O:503:GLU:HB3	1:O:508:ASN:HB3	2.03	0.41
1:P:219:ILE:HG13	1:P:220:ALA:N	2.36	0.41
1:B:78:VAL:CG1	1:B:444:LEU:HG	2.51	0.41
1:B:80:TYR:HB2	1:B:95:MSE:HG2	2.03	0.41
1:C:118:GLN:HB2	1:C:118:GLN:HE21	1.77	0.41
1:C:316:TYR:O	1:C:321:ARG:NH1	2.53	0.41
1:C:440:MSE:O	1:C:444:LEU:CD2	2.69	0.41
1:G:301:VAL:HG23	1:G:439:ASN:HB3	2.02	0.41
1:H:316:TYR:O	1:H:321:ARG:NH1	2.54	0.41
1:I:24:GLU:C	1:I:26:ARG:N	2.73	0.41
1:I:301:VAL:HG23	1:I:439:ASN:HB3	2.02	0.41
1:I:93:VAL:HG11	1:I:458:ARG:HG2	2.03	0.41
1:K:47:GLN:CD	1:K:47:GLN:N	2.72	0.41
1:N:61:ARG:CB	1:N:62:PRO:HD3	2.51	0.41
1:P:340:ILE:O	1:P:344:THR:HG21	2.20	0.41
1:Q:306:GLU:O	1:Q:316:TYR:HA	2.21	0.41
1:Q:457:MSE:O	1:Q:458:ARG:CD	2.69	0.41
1:X:212:LEU:N	1:X:212:LEU:HD12	2.35	0.41
1:J:273:ARG:HH22	1:J:453:LEU:HD11	1.85	0.41
1:D:273:ARG:NH1	1:D:275:ARG:HE	2.19	0.41
1:L:273:ARG:HH22	1:L:453:LEU:HD11	1.85	0.41

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:S:210:PRO:HD2	1:S:211:TRP:CZ3	2.56	0.41
1:W:24:GLU:N	1:W:24:GLU:OE1	2.54	0.41
1:V:383:ASP:C	1:V:385:PRO:HD3	2.41	0.41
1:K:198:ILE:HA	1:K:199:PRO:HD3	1.64	0.41
1:R:198:ILE:HA	1:R:199:PRO:HD3	1.71	0.41
1:I:383:ASP:CB	1:I:385:PRO:HD3	2.51	0.41
1:H:352:TRP:HB2	1:H:355:GLN:HG2	2.03	0.41
1:U:262:GLY:O	1:U:263:PHE:HB3	2.21	0.41
1:R:262:GLY:O	1:R:263:PHE:HB3	2.21	0.41
1:H:383:ASP:CB	1:H:385:PRO:HD3	2.51	0.41
1:E:383:ASP:CB	1:E:385:PRO:HD3	2.51	0.41
1:S:579:MSE:HB2	1:S:581:VAL:HG12	2.03	0.41
1:Q:231:THR:CG2	1:Q:249:ARG:HH11	2.32	0.41
1:R:578:GLN:HG2	1:R:596:ALA:CB	2.51	0.41
2:Z:119:GLY:O	2:Z:123:LEU:HD13	2.21	0.41
1:H:322:LEU:HD22	1:H:322:LEU:N	2.36	0.41
1:I:322:LEU:N	1:I:322:LEU:HD22	2.36	0.41
1:H:459:ARG:HD2	1:H:459:ARG:C	2.42	0.41
1:D:157:ILE:CG1	1:D:157:ILE:O	2.68	0.41
1:O:349:PRO:HG3	1:O:391:TYR:CE1	2.56	0.41
1:S:107:ALA:HA	1:S:146:ARG:HB3	2.02	0.41
1:Q:191:TYR:O	1:Q:288:LYS:HE2	2.21	0.41
1:T:202:GLN:O	1:T:203:ASN:HB3	2.21	0.41
1:S:177:HIS:O	1:S:218:GLN:HA	2.21	0.41
1:H:430:VAL:HG12	1:H:431:ALA:N	2.35	0.41
1:B:440:MSE:O	1:B:444:LEU:CD2	2.69	0.40
1:C:164:LEU:HD22	1:C:169:ASP:CG	2.42	0.40
1:D:528:LYS:HD2	1:D:560:LEU:HD11	2.03	0.40
1:E:440:MSE:O	1:E:444:LEU:CD2	2.69	0.40
1:E:99:ARG:NH1	1:E:530:GLN:HE21	2.13	0.40
1:F:15:PHE:HE2	1:F:19:TRP:NE1	2.18	0.40
1:F:61:ARG:N	1:F:62:PRO:CD	2.84	0.40
1:G:31:ASN:HA	1:G:31:ASN:HD22	1.62	0.40
1:H:127:ARG:HG2	1:H:147:GLU:HB2	2.02	0.40
1:H:15:PHE:HE2	1:H:19:TRP:NE1	2.18	0.40
1:H:440:MSE:O	1:H:444:LEU:CD2	2.69	0.40
1:I:123:VAL:HG21	1:I:153:CYS:HB3	2.02	0.40
1:J:35:PHE:HZ	1:J:321:ARG:NE	2.12	0.40
1:K:80:TYR:HB2	1:K:95:MSE:HG2	2.03	0.40
1:L:35:PHE:HZ	1:L:321:ARG:NE	2.12	0.40
1:M:123:VAL:HG13	1:M:304:PHE:CE1	2.56	0.40
1:O:340:ILE:O	1:O:344:THR:HG21	2.22	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:N:444:LEU:O	1:N:445:GLU:C	2.60	0.40
1:N:82:PRO:HB2	1:N:83:LYS:H	1.63	0.40
1:Q:79:LEU:N	1:Q:519:ASP:O	2.54	0.40
1:S:80:TYR:CE1	1:S:448:VAL:CG2	3.05	0.40
1:T:26:ARG:O	1:T:27:ARG:C	2.59	0.40
1:U:457:MSE:O	1:U:458:ARG:CD	2.69	0.40
1:U:458:ARG:HD3	1:U:458:ARG:HA	1.84	0.40
1:T:528:LYS:HD2	1:T:560:LEU:HD21	2.02	0.40
1:V:251:ILE:HD11	1:V:275:ARG:HH21	1.86	0.40
1:V:451:ASP:O	1:V:453:LEU:N	2.54	0.40
1:P:248:LYS:H	1:P:248:LYS:CD	2.18	0.40
1:P:511:ARG:HA	1:P:513:ARG:CD	2.46	0.40
1:R:330:ARG:HD2	1:R:409:THR:CG2	2.42	0.40
1:U:334:MSE:SE	1:U:405:LEU:HD11	2.71	0.40
1:K:273:ARG:HD2	1:K:275:ARG:HD2	2.02	0.40
1:G:248:LYS:HZ2	1:G:251:ILE:HD12	1.86	0.40
1:G:273:ARG:NH1	1:G:275:ARG:HE	2.19	0.40
1:P:236:GLN:H	1:P:265:LYS:CB	2.34	0.40
1:K:383:ASP:CB	1:K:385:PRO:HD3	2.51	0.40
1:D:576:LEU:HD13	1:E:567:MSE:SE	2.71	0.40
1:G:352:TRP:HB2	1:G:355:GLN:HG2	2.03	0.40
1:D:209:PHE:CE2	1:D:214:GLN:HG2	2.56	0.40
1:A:209:PHE:CE2	1:A:214:GLN:HG2	2.56	0.40
1:F:351:PHE:CD2	1:F:356:ILE:CD1	3.04	0.40
1:L:108:LYS:HE2	1:L:108:LYS:HB3	4.41	0.40
1:R:310:VAL:HB	1:R:311:GLU:H	1.66	0.40
1:C:232:ALA:HB1	1:C:233:PHE:H	1.71	0.40
1:L:598:GLN:HB2	1:L:601:GLN:HB3	2.02	0.40
1:K:386:THR:HG21	1:K:389:LEU:HD21	2.02	0.40
1:U:380:ASN:O	1:U:381:SER:CB	2.69	0.40
1:N:386:THR:CG2	1:N:389:LEU:HD21	2.51	0.40
1:E:229:LYS:HG2	1:E:272:LYS:CG	2.50	0.40
1:J:255:ILE:O	1:J:258:LEU:N	2.53	0.40
1:U:394:ASN:HA	1:U:395:PRO:HD3	1.93	0.40
1:V:438:LEU:HD11	1:W:108:LYS:HD2	2.02	0.40
1:N:227:GLU:HG2	1:N:227:GLU:O	2.21	0.40
1:X:370:PRO:HB2	1:X:371:TYR:CD1	2.56	0.40
1:G:127:ARG:HG2	1:G:147:GLU:HB2	2.03	0.40
1:I:352:TRP:HB2	1:I:355:GLN:HG2	2.03	0.40
1:H:397:VAL:HG12	1:H:397:VAL:O	2.20	0.40
1:E:397:VAL:O	1:E:397:VAL:HG12	2.20	0.40
1:A:459:ARG:HD2	1:A:459:ARG:C	2.42	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:D:322:LEU:HD22	1:D:322:LEU:N	2.36	0.40
1:E:322:LEU:HD22	1:E:322:LEU:N	2.36	0.40
1:S:503:GLU:HB3	1:S:508:ASN:HB3	2.03	0.40
1:N:591:GLN:HA	1:N:594:VAL:CG2	2.51	0.40
1:S:179:MSE:O	1:S:217:ILE:HD12	2.21	0.40
1:L:552:LEU:O	1:L:556:TYR:HD2	2.03	0.40
1:W:219:ILE:HG13	1:W:220:ALA:N	2.36	0.40
1:A:528:LYS:HD2	1:A:560:LEU:HD11	2.03	0.40
1:B:93:VAL:HG11	1:B:458:ARG:HG2	2.03	0.40
1:C:32:ASP:CG	1:C:316:TYR:CE2	2.94	0.40
1:D:61:ARG:N	1:D:62:PRO:CD	2.84	0.40
1:E:164:LEU:HD22	1:E:169:ASP:CG	2.42	0.40
1:H:123:VAL:HG21	1:H:153:CYS:HB3	2.02	0.40
1:H:528:LYS:HD2	1:H:560:LEU:HD11	2.03	0.40
1:L:123:VAL:HG21	1:L:153:CYS:HB3	2.02	0.40
1:L:32:ASP:CG	1:L:316:TYR:CE2	2.94	0.40
1:M:24:GLU:HG3	1:M:313:LYS:HE2	2.03	0.40
1:M:457:MSE:O	1:M:458:ARG:CD	2.70	0.40
1:O:24:GLU:CD	1:O:24:GLU:N	2.74	0.40
1:P:457:MSE:O	1:P:458:ARG:CD	2.69	0.40
1:U:444:LEU:O	1:U:445:GLU:C	2.58	0.40
1:V:457:MSE:O	1:V:458:ARG:CD	2.69	0.40
1:A:61:ARG:N	1:A:62:PRO:CD	2.84	0.40
1:P:301:VAL:HG23	1:P:439:ASN:HB3	2.02	0.40
1:N:248:LYS:HE2	1:N:513:ARG:HH12	1.85	0.40
1:N:229:LYS:CG	1:N:229:LYS:O	2.69	0.40
1:T:228:LYS:O	1:T:229:LYS:HB3	2.22	0.40
1:A:567:MSE:HE2	1:B:554:LEU:HD22	2.03	0.40
1:E:236:GLN:CG	1:E:243:PRO:HB2	2.51	0.40
1:Q:210:PRO:HD2	1:Q:211:TRP:CZ3	2.56	0.40
1:X:24:GLU:CD	1:X:24:GLU:N	2.75	0.40
1:X:236:GLN:CG	1:X:243:PRO:HB2	2.51	0.40
1:O:198:ILE:HA	1:O:199:PRO:HD3	1.69	0.40
1:Q:282:THR:HG23	1:Q:287:LEU:CD1	2.47	0.40
1:J:352:TRP:HB2	1:J:355:GLN:HG2	2.03	0.40
1:A:383:ASP:CB	1:A:385:PRO:HD3	2.51	0.40
1:K:376:ARG:HB2	1:L:352:TRP:CD1	2.56	0.40
1:L:352:TRP:HB2	1:L:355:GLN:HG2	2.03	0.40
1:H:209:PHE:CE2	1:H:214:GLN:HG2	2.56	0.40
1:B:351:PHE:CD2	1:B:356:ILE:CD1	3.04	0.40
1:I:293:ILE:HD13	1:I:294:ALA:H	1.86	0.40
1:F:276:VAL:HG23	1:F:293:ILE:HG22	2.03	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:L:383:ASP:CB	1:L:385:PRO:HD3	2.51	0.40
1:C:351:PHE:CD2	1:C:356:ILE:CD1	3.04	0.40
1:O:538:LEU:HB3	1:O:551:LEU:HD13	2.02	0.40
1:X:231:THR:HG23	1:X:249:ARG:HE	1.86	0.40
1:R:311:GLU:O	1:R:312:ASP:HB2	2.21	0.40
1:W:310:VAL:HB	1:W:311:GLU:H	1.68	0.40
1:K:372:TYR:CD2	1:L:348:LYS:HB2	2.55	0.40
1:X:387:GLN:HA	1:X:388:PRO:HD3	1.93	0.40
1:W:578:GLN:HG2	1:W:596:ALA:CB	2.50	0.40
1:M:386:THR:CG2	1:M:389:LEU:HD21	2.51	0.40
1:N:583:LYS:HA	1:N:584:PRO:HD3	1.91	0.40
1:C:191:TYR:HE1	1:C:278:LYS:HZ3	1.66	0.40
1:S:390:ALA:CB	1:U:387:GLN:HB3	2.51	0.40
1:R:147:GLU:HA	1:R:148:PRO:HD3	1.80	0.40
1:X:177:HIS:O	1:X:218:GLN:HA	2.21	0.40
1:L:322:LEU:HD22	1:L:322:LEU:N	2.36	0.40
1:G:459:ARG:C	1:G:459:ARG:HD2	2.42	0.40
1:C:157:ILE:O	1:C:157:ILE:CG1	2.69	0.40
1:B:459:ARG:C	1:B:459:ARG:HD2	2.42	0.40
1:A:397:VAL:O	1:A:397:VAL:HG12	2.20	0.40
2:Y:124:TYR:O	2:Y:124:TYR:CG	2.73	0.40
1:N:216:THR:HB	1:N:218:GLN:OE1	2.21	0.40
1:E:352:TRP:HB2	1:E:355:GLN:HG2	2.02	0.40
1:N:503:GLU:HB3	1:N:508:ASN:HB3	2.03	0.40
1:B:35:PHE:HZ	1:B:321:ARG:NE	2.12	0.40
1:C:313:LYS:HD3	1:C:314:GLU:N	2.36	0.40
1:D:80:TYR:HB2	1:D:95:MSE:HG2	2.03	0.40
1:E:316:TYR:O	1:E:321:ARG:NH1	2.53	0.40
1:E:528:LYS:HD2	1:E:560:LEU:HD11	2.03	0.40
1:G:40:GLN:NE2	1:G:120:GLU:OE1	2.46	0.40
1:H:71:MSE:HG2	1:H:429:GLN:HG3	2.03	0.40
1:H:99:ARG:NH1	1:H:530:GLN:HE21	2.13	0.40
1:I:32:ASP:CG	1:I:316:TYR:CE2	2.94	0.40
1:I:71:MSE:HG2	1:I:429:GLN:HG3	2.04	0.40
1:I:45:LEU:O	1:I:46:SER:HB3	2.22	0.40
1:J:147:GLU:HA	1:J:148:PRO:HD3	1.86	0.40
1:J:71:MSE:HG2	1:J:429:GLN:HG3	2.03	0.40
1:K:93:VAL:HG11	1:K:458:ARG:HG2	2.03	0.40
1:O:440:MSE:O	1:O:443:ASP:HB3	2.22	0.40
1:O:458:ARG:HD3	1:O:458:ARG:HA	1.83	0.40
1:R:123:VAL:HG13	1:R:304:PHE:CE1	2.57	0.40
1:R:457:MSE:O	1:R:458:ARG:CD	2.69	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:E:61:ARG:N	1:E:62:PRO:CD	2.84	0.40
1:U:160:SER:O	1:U:161:ASN:ND2	2.46	0.40
1:U:298:ILE:HA	1:U:299:PRO:HD3	1.77	0.40
1:Q:510:ILE:HG12	1:Q:511:ARG:H	1.86	0.40
1:O:228:LYS:O	1:O:229:LYS:HB3	2.20	0.40
1:A:273:ARG:NH1	1:A:275:ARG:HE	2.19	0.40
1:O:236:GLN:H	1:O:265:LYS:CB	2.34	0.40
1:R:236:GLN:CG	1:R:243:PRO:HB2	2.51	0.40
1:G:383:ASP:CB	1:G:385:PRO:HD3	2.51	0.40
1:C:209:PHE:CE2	1:C:214:GLN:HG2	2.56	0.40
1:L:293:ILE:HD13	1:L:294:ALA:H	1.87	0.40
1:I:579:MSE:CB	1:I:581:VAL:HG12	2.49	0.40
1:J:598:GLN:HB2	1:J:601:GLN:HB3	2.02	0.40
1:E:598:GLN:HB2	1:E:601:GLN:HB3	2.02	0.40
1:I:542:THR:HA	1:I:543:PRO:HD3	1.82	0.40
1:X:578:GLN:HG2	1:X:596:ALA:CB	2.50	0.40
1:L:255:ILE:O	1:L:256:ASP:C	2.60	0.40
1:O:57:PHE:CD1	1:O:57:PHE:N	2.88	0.40
1:R:202:GLN:O	1:R:203:ASN:HB3	2.22	0.40
1:D:430:VAL:HG12	1:D:431:ALA:N	2.35	0.40
1:R:503:GLU:HB3	1:R:508:ASN:HB3	2.03	0.40
1:M:219:ILE:HG13	1:M:220:ALA:N	2.35	0.40
1:L:430:VAL:HG12	1:L:431:ALA:N	2.35	0.40
1:M:245:SER:HG	1:M:247:PHE:HE1	1.64	0.40
1:L:364:ASP:CG	2:Y:135:ALA:HB2	2.42	0.40
2:Y:20:ARG:C	2:Y:22:ALA:N	2.74	0.40
1:S:311:GLU:O	1:S:312:ASP:HB2	2.22	0.40
1:A:123:VAL:HG21	1:A:153:CYS:HB3	2.02	0.40
1:A:40:GLN:O	1:A:41:TRP:CB	2.55	0.40
1:C:71:MSE:HG2	1:C:429:GLN:HG3	2.03	0.40
1:D:298:ILE:HA	1:D:299:PRO:HD3	1.82	0.40
1:E:123:VAL:HG21	1:E:153:CYS:HB3	2.02	0.40
1:F:71:MSE:HG2	1:F:429:GLN:HG3	2.03	0.40
1:G:45:LEU:O	1:G:46:SER:HB3	2.22	0.40
1:G:528:LYS:HD2	1:G:560:LEU:HD11	2.03	0.40
1:H:102:MSE:CE	1:H:144:ILE:HD11	2.52	0.40
1:H:24:GLU:C	1:H:26:ARG:N	2.73	0.40
1:H:37:ARG:HA	1:H:37:ARG:HD2	1.79	0.40
1:I:528:LYS:HD2	1:I:560:LEU:HD11	2.03	0.40
1:J:45:LEU:O	1:J:46:SER:HB3	2.22	0.40
1:K:78:VAL:CG1	1:K:444:LEU:HG	2.51	0.40
1:K:45:LEU:O	1:K:46:SER:HB3	2.22	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
2:Y:28:VAL:HG22	2:Y:93:PHE:CA	2.52	0.40
1:K:528:LYS:HD2	1:K:560:LEU:HD11	2.03	0.40
1:P:306:GLU:O	1:P:316:TYR:HA	2.22	0.40
1:R:444:LEU:O	1:R:447:TYR:N	2.54	0.40
1:T:164:LEU:HD22	1:T:169:ASP:OD1	2.22	0.40
1:T:440:MSE:O	1:T:443:ASP:HB3	2.21	0.40
1:V:14:ARG:NE	1:V:14:ARG:CA	2.69	0.40
1:J:139:SER:CB	1:J:455:THR:CG2	2.80	0.40
1:N:11:ILE:O	1:N:15:PHE:HB2	2.22	0.40
1:H:61:ARG:N	1:H:62:PRO:CD	2.84	0.40
1:S:160:SER:O	1:S:161:ASN:ND2	2.46	0.40
1:R:115:VAL:HA	1:R:118:GLN:HB3	2.04	0.40
1:B:528:LYS:HZ2	1:B:560:LEU:HD21	1.87	0.40
1:I:248:LYS:H	1:I:248:LYS:CD	2.16	0.40
1:E:273:ARG:NH1	1:E:275:ARG:HE	2.19	0.40
1:W:383:ASP:C	1:W:385:PRO:HD3	2.40	0.40
1:O:236:GLN:CG	1:O:243:PRO:HB2	2.51	0.40
1:T:252:LYS:HE3	1:T:252:LYS:O	2.22	0.40
1:P:24:GLU:N	1:P:24:GLU:CD	2.74	0.40
1:R:280:ILE:HG22	1:R:287:LEU:HD13	2.03	0.40
1:S:198:ILE:HA	1:S:199:PRO:HD3	1.71	0.40
1:S:232:ALA:HB1	1:S:233:PHE:H	1.56	0.40
1:O:232:ALA:HB1	1:O:233:PHE:H	1.58	0.40
1:P:61:ARG:CB	1:P:62:PRO:HD3	2.52	0.40
1:B:583:LYS:HA	1:B:584:PRO:HD3	1.85	0.40
1:L:380:ASN:O	1:L:381:SER:CB	2.70	0.40
3:F:719:HOH:O	1:G:438:LEU:HD22	2.20	0.40
1:T:311:GLU:O	1:T:312:ASP:HB2	2.21	0.40
1:A:386:THR:HG21	1:A:389:LEU:HD21	2.02	0.40
1:K:371:TYR:HA	1:L:348:LYS:HB3	2.03	0.40
1:O:578:GLN:HG2	1:O:596:ALA:CB	2.51	0.40
1:T:386:THR:CG2	1:T:389:LEU:HD21	2.51	0.40
1:M:387:GLN:CB	1:O:390:ALA:HB2	2.52	0.40
1:E:255:ILE:O	1:E:258:LEU:N	2.53	0.40
1:G:255:ILE:O	1:G:256:ASP:C	2.60	0.40
1:F:255:ILE:O	1:F:256:ASP:C	2.60	0.40
1:U:310:VAL:HB	1:U:311:GLU:H	1.66	0.40
1:M:371:TYR:CE2	1:M:373:LEU:HD21	2.56	0.40
1:T:227:GLU:HG2	1:T:227:GLU:O	2.20	0.40
1:B:252:LYS:HZ1	1:B:256:ASP:HB3	1.86	0.40
1:I:430:VAL:HG12	1:I:431:ALA:N	2.35	0.40
1:F:322:LEU:HD22	1:F:322:LEU:N	2.36	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:G:322:LEU:HD22	1:G:322:LEU:N	2.36	0.40
1:E:459:ARG:C	1:E:459:ARG:HD2	2.42	0.40
1:F:459:ARG:C	1:F:459:ARG:HD2	2.42	0.40
1:W:156:VAL:O	1:W:156:VAL:CG2	2.68	0.40
1:V:177:HIS:O	1:V:218:GLN:HA	2.22	0.40
1:B:164:LEU:HD22	1:B:169:ASP:CG	2.42	0.40
1:B:47:GLN:N	1:B:47:GLN:CD	2.72	0.40
1:C:47:GLN:C	1:C:48:TYR:CD2	2.95	0.40
1:E:127:ARG:HG2	1:E:147:GLU:HB2	2.02	0.40
1:E:37:ARG:HA	1:E:37:ARG:HD2	1.79	0.40
1:F:127:ARG:HG2	1:F:147:GLU:HB2	2.02	0.40
1:G:35:PHE:HZ	1:G:321:ARG:NE	2.12	0.40
1:G:71:MSE:HG2	1:G:429:GLN:HG3	2.03	0.40
1:G:440:MSE:O	1:G:444:LEU:CD2	2.69	0.40
1:G:47:GLN:C	1:G:48:TYR:CD2	2.95	0.40
1:H:298:ILE:HA	1:H:299:PRO:HD3	1.82	0.40
1:I:78:VAL:CG1	1:I:444:LEU:HG	2.51	0.40
1:J:123:VAL:HG21	1:J:153:CYS:HB3	2.02	0.40
1:J:99:ARG:HH12	1:J:530:GLN:NE2	2.14	0.40
1:K:123:VAL:HG21	1:K:153:CYS:HB3	2.02	0.40
1:L:147:GLU:HA	1:L:148:PRO:HD3	1.86	0.40
1:L:45:LEU:O	1:L:46:SER:HB3	2.22	0.40
1:L:102:MSE:CE	1:L:144:ILE:HD11	2.52	0.40
1:L:164:LEU:HD22	1:L:169:ASP:CG	2.41	0.40
1:G:139:SER:CB	1:G:455:THR:CG2	2.80	0.40
1:B:61:ARG:N	1:B:62:PRO:CD	2.84	0.40
1:M:251:ILE:HD11	1:M:275:ARG:HH21	1.86	0.40
1:S:301:VAL:HG23	1:S:439:ASN:HB3	2.02	0.40
1:W:334:MSE:SE	1:W:405:LEU:HD11	2.71	0.40
1:J:246:TYR:HD2	1:J:511:ARG:CB	2.28	0.40
1:H:248:LYS:HZ1	1:H:513:ARG:HH12	1.70	0.40
1:N:210:PRO:HD2	1:N:211:TRP:CZ3	2.56	0.40
1:X:210:PRO:HD2	1:X:211:TRP:CZ3	2.56	0.40
1:U:236:GLN:CG	1:U:243:PRO:HB2	2.52	0.40
1:P:26:ARG:O	1:P:27:ARG:C	2.59	0.40
1:N:232:ALA:N	1:N:269:ARG:O	2.54	0.40
1:Q:577:ILE:HG12	1:Q:582:LYS:CG	2.45	0.40
1:G:99:ARG:NH1	1:G:530:GLN:HE21	2.13	0.40
1:K:276:VAL:HG23	1:K:293:ILE:HG22	2.03	0.40
1:A:352:TRP:HB2	1:A:355:GLN:HG2	2.03	0.40
1:J:380:ASN:O	1:J:381:SER:CB	2.70	0.40
1:H:380:ASN:O	1:H:381:SER:CB	2.70	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
3:T:719:HOH:O	1:W:430:VAL:HG11	2.17	0.40
2:Y:57:TYR:O	2:Y:59:ASP:N	2.54	0.40
1:N:438:LEU:HD12	1:N:441:ARG:NH1	2.37	0.40
1:K:255:ILE:O	1:K:256:ASP:C	2.60	0.40
1:X:260:ASP:CA	1:X:264:ILE:HB	2.52	0.40
1:P:107:ALA:HA	1:P:146:ARG:HB3	2.03	0.40
1:R:591:GLN:HA	1:R:594:VAL:CG2	2.51	0.40
1:V:349:PRO:HG3	1:V:391:TYR:CE1	2.56	0.40
1:S:514:TYR:HE2	1:U:135:GLN:NE2	2.19	0.40
1:O:219:ILE:HG13	1:O:220:ALA:N	2.37	0.40
1:P:216:THR:HB	1:P:218:GLN:OE1	2.22	0.40
1:R:396:GLU:O	1:X:399:GLN:OE1	2.39	0.40

All (13) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:C:230:GLU:OE2	2:c:74:ASN:ND2[2_546]	1.06	1.14
1:N:230:GLU:N	2:r:64:GLU:OE2[2_455]	1.79	0.41
1:N:260:ASP:OD2	1:B:601:GLN:NE2[2_555]	1.79	0.41
1:C:250:ASP:OD2	2:c:74:ASN:OD1[2_546]	1.83	0.37
1:N:228:LYS:CG	2:r:64:GLU:OE1[2_455]	1.89	0.31
1:N:229:LYS:C	2:r:64:GLU:OE2[2_455]	1.92	0.28
1:S:249:ARG:NH1	2:v:65:ASN:CB[2_445]	1.94	0.26
1:S:249:ARG:NH2	2:v:65:ASN:ND2[2_445]	1.99	0.21
1:C:277:TYR:OH	2:c:73:GLU:CG[2_546]	2.05	0.15
1:N:262:GLY:O	1:B:594:VAL:CG1[2_555]	2.08	0.12
1:C:230:GLU:CD	2:c:74:ASN:ND2[2_546]	2.08	0.12
1:S:249:ARG:NH1	2:v:65:ASN:ND2[2_445]	2.09	0.11
1:W:249:ARG:NH1	2:g:72:ASP:CG[1_454]	2.10	0.10

5.3 Torsion angles

5.3.1 Protein backbone ⓘ

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

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	A	565/602 (94%)	434 (77%)	88 (16%)	43 (8%)	2	15
1	B	565/602 (94%)	434 (77%)	87 (15%)	44 (8%)	1	13
1	C	565/602 (94%)	434 (77%)	87 (15%)	44 (8%)	1	13
1	D	565/602 (94%)	434 (77%)	88 (16%)	43 (8%)	2	15
1	E	565/602 (94%)	434 (77%)	88 (16%)	43 (8%)	2	15
1	F	565/602 (94%)	434 (77%)	88 (16%)	43 (8%)	2	15
1	G	565/602 (94%)	434 (77%)	88 (16%)	43 (8%)	2	15
1	H	565/602 (94%)	434 (77%)	88 (16%)	43 (8%)	2	15
1	I	565/602 (94%)	434 (77%)	88 (16%)	43 (8%)	2	15
1	J	565/602 (94%)	434 (77%)	88 (16%)	43 (8%)	2	15
1	K	565/602 (94%)	434 (77%)	88 (16%)	43 (8%)	2	15
1	L	565/602 (94%)	434 (77%)	87 (15%)	44 (8%)	1	13
1	M	565/602 (94%)	446 (79%)	81 (14%)	38 (7%)	2	18
1	N	565/602 (94%)	447 (79%)	79 (14%)	39 (7%)	2	17
1	O	565/602 (94%)	447 (79%)	80 (14%)	38 (7%)	2	18
1	P	565/602 (94%)	448 (79%)	79 (14%)	38 (7%)	2	18
1	Q	565/602 (94%)	447 (79%)	79 (14%)	39 (7%)	2	17
1	R	565/602 (94%)	448 (79%)	79 (14%)	38 (7%)	2	18
1	S	565/602 (94%)	443 (78%)	83 (15%)	39 (7%)	2	17
1	T	565/602 (94%)	446 (79%)	81 (14%)	38 (7%)	2	18
1	U	565/602 (94%)	447 (79%)	79 (14%)	39 (7%)	2	17
1	V	565/602 (94%)	445 (79%)	82 (14%)	38 (7%)	2	18
1	W	565/602 (94%)	448 (79%)	78 (14%)	39 (7%)	2	17
1	X	565/602 (94%)	448 (79%)	78 (14%)	39 (7%)	2	17
2	Y	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	Z	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	a	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	b	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	c	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	d	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	e	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	f	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	g	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	h	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	i	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	j	144/166 (87%)	115 (80%)	16 (11%)	13 (9%)	1	10
2	k	143/166 (86%)	115 (80%)	17 (12%)	11 (8%)	1	14
2	l	143/166 (86%)	114 (80%)	18 (13%)	11 (8%)	1	14
2	m	143/166 (86%)	115 (80%)	18 (13%)	10 (7%)	2	17
2	n	143/166 (86%)	114 (80%)	18 (13%)	11 (8%)	1	14
2	o	143/166 (86%)	115 (80%)	17 (12%)	11 (8%)	1	14
2	p	143/166 (86%)	115 (80%)	17 (12%)	11 (8%)	1	14
2	q	143/166 (86%)	113 (79%)	19 (13%)	11 (8%)	1	14
2	r	143/166 (86%)	114 (80%)	18 (13%)	11 (8%)	1	14
2	s	143/166 (86%)	114 (80%)	18 (13%)	11 (8%)	1	14
2	t	143/166 (86%)	113 (79%)	19 (13%)	11 (8%)	1	14
2	u	143/166 (86%)	114 (80%)	18 (13%)	11 (8%)	1	14
2	v	143/166 (86%)	114 (80%)	19 (13%)	10 (7%)	2	17
All	All	17004/18432 (92%)	13318 (78%)	2419 (14%)	1267 (8%)	2	15

All (1267) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	M	82	PRO
1	M	263	PHE
1	M	294	ALA
1	M	462	GLU
1	M	514	TYR
1	M	561	ASP
1	M	586	THR
1	M	588	GLU
1	N	82	PRO
1	N	263	PHE
1	N	294	ALA
1	N	462	GLU
1	N	514	TYR
1	N	561	ASP
1	N	586	THR

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Mol	Chain	Res	Type
1	N	588	GLU
1	O	82	PRO
1	O	263	PHE
1	O	294	ALA
1	O	462	GLU
1	O	514	TYR
1	O	561	ASP
1	O	586	THR
1	O	588	GLU
1	P	82	PRO
1	P	263	PHE
1	P	294	ALA
1	P	462	GLU
1	P	514	TYR
1	P	561	ASP
1	P	586	THR
1	P	588	GLU
1	Q	82	PRO
1	Q	263	PHE
1	Q	294	ALA
1	Q	462	GLU
1	Q	514	TYR
1	Q	561	ASP
1	Q	586	THR
1	Q	588	GLU
1	R	82	PRO
1	R	263	PHE
1	R	294	ALA
1	R	462	GLU
1	R	514	TYR
1	R	561	ASP
1	R	586	THR
1	R	588	GLU
1	S	82	PRO
1	S	263	PHE
1	S	294	ALA
1	S	462	GLU
1	S	514	TYR
1	S	561	ASP
1	S	586	THR
1	S	588	GLU
1	T	82	PRO

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Mol	Chain	Res	Type
1	T	263	PHE
1	T	294	ALA
1	T	462	GLU
1	T	514	TYR
1	T	561	ASP
1	T	586	THR
1	T	588	GLU
1	U	82	PRO
1	U	263	PHE
1	U	294	ALA
1	U	462	GLU
1	U	514	TYR
1	U	561	ASP
1	U	586	THR
1	U	588	GLU
1	V	82	PRO
1	V	263	PHE
1	V	294	ALA
1	V	462	GLU
1	V	514	TYR
1	V	561	ASP
1	V	586	THR
1	V	588	GLU
1	W	82	PRO
1	W	263	PHE
1	W	294	ALA
1	W	462	GLU
1	W	514	TYR
1	W	561	ASP
1	W	586	THR
1	W	588	GLU
1	X	82	PRO
1	X	263	PHE
1	X	294	ALA
1	X	462	GLU
1	X	514	TYR
1	X	561	ASP
1	X	586	THR
1	X	588	GLU
2	k	25	LEU
2	k	30	PRO
2	k	123	ALA

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Mol	Chain	Res	Type
2	l	25	LEU
2	l	30	PRO
2	l	123	ALA
2	m	25	LEU
2	m	30	PRO
2	m	123	ALA
2	n	25	LEU
2	n	30	PRO
2	n	123	ALA
2	o	25	LEU
2	o	30	PRO
2	o	123	ALA
2	p	25	LEU
2	p	30	PRO
2	p	123	ALA
2	q	25	LEU
2	q	30	PRO
2	q	123	ALA
2	r	25	LEU
2	r	30	PRO
2	r	123	ALA
2	s	25	LEU
2	s	30	PRO
2	s	123	ALA
2	t	25	LEU
2	t	30	PRO
2	t	123	ALA
2	u	25	LEU
2	u	30	PRO
2	u	123	ALA
2	v	25	LEU
2	v	30	PRO
2	v	123	ALA
1	A	41	TRP
1	A	50	THR
1	A	59	VAL
1	A	82	PRO
1	A	159	ASP
1	A	208	VAL
1	A	256	ASP
1	A	263	PHE
1	A	294	ALA

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Mol	Chain	Res	Type
1	A	387	GLN
1	A	462	GLU
1	A	504	LYS
1	A	514	TYR
1	A	561	ASP
1	A	586	THR
1	B	41	TRP
1	B	50	THR
1	B	59	VAL
1	B	82	PRO
1	B	159	ASP
1	B	208	VAL
1	B	256	ASP
1	B	263	PHE
1	B	294	ALA
1	B	387	GLN
1	B	462	GLU
1	B	504	LYS
1	B	514	TYR
1	B	561	ASP
1	B	586	THR
1	C	41	TRP
1	C	50	THR
1	C	59	VAL
1	C	82	PRO
1	C	159	ASP
1	C	208	VAL
1	C	256	ASP
1	C	263	PHE
1	C	294	ALA
1	C	387	GLN
1	C	462	GLU
1	C	504	LYS
1	C	514	TYR
1	C	561	ASP
1	C	586	THR
1	D	41	TRP
1	D	50	THR
1	D	59	VAL
1	D	82	PRO
1	D	159	ASP
1	D	208	VAL

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Mol	Chain	Res	Type
1	D	256	ASP
1	D	263	PHE
1	D	294	ALA
1	D	387	GLN
1	D	462	GLU
1	D	504	LYS
1	D	514	TYR
1	D	561	ASP
1	D	586	THR
1	E	41	TRP
1	E	50	THR
1	E	59	VAL
1	E	82	PRO
1	E	159	ASP
1	E	208	VAL
1	E	256	ASP
1	E	263	PHE
1	E	294	ALA
1	E	387	GLN
1	E	462	GLU
1	E	504	LYS
1	E	514	TYR
1	E	561	ASP
1	E	586	THR
1	F	41	TRP
1	F	50	THR
1	F	59	VAL
1	F	82	PRO
1	F	159	ASP
1	F	208	VAL
1	F	256	ASP
1	F	263	PHE
1	F	294	ALA
1	F	387	GLN
1	F	462	GLU
1	F	504	LYS
1	F	514	TYR
1	F	561	ASP
1	F	586	THR
1	G	41	TRP
1	G	50	THR
1	G	59	VAL

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Mol	Chain	Res	Type
1	G	82	PRO
1	G	159	ASP
1	G	208	VAL
1	G	256	ASP
1	G	263	PHE
1	G	294	ALA
1	G	387	GLN
1	G	462	GLU
1	G	504	LYS
1	G	514	TYR
1	G	561	ASP
1	G	586	THR
1	H	41	TRP
1	H	50	THR
1	H	59	VAL
1	H	82	PRO
1	H	159	ASP
1	H	208	VAL
1	H	256	ASP
1	H	263	PHE
1	H	294	ALA
1	H	387	GLN
1	H	462	GLU
1	H	504	LYS
1	H	514	TYR
1	H	561	ASP
1	H	586	THR
1	I	41	TRP
1	I	50	THR
1	I	59	VAL
1	I	82	PRO
1	I	159	ASP
1	I	208	VAL
1	I	256	ASP
1	I	263	PHE
1	I	294	ALA
1	I	387	GLN
1	I	462	GLU
1	I	504	LYS
1	I	514	TYR
1	I	561	ASP
1	I	586	THR

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Mol	Chain	Res	Type
1	J	41	TRP
1	J	50	THR
1	J	59	VAL
1	J	82	PRO
1	J	159	ASP
1	J	208	VAL
1	J	256	ASP
1	J	263	PHE
1	J	294	ALA
1	J	387	GLN
1	J	462	GLU
1	J	504	LYS
1	J	514	TYR
1	J	561	ASP
1	J	586	THR
1	K	41	TRP
1	K	50	THR
1	K	59	VAL
1	K	82	PRO
1	K	208	VAL
1	K	256	ASP
1	K	263	PHE
1	K	294	ALA
1	K	387	GLN
1	K	462	GLU
1	K	504	LYS
1	K	514	TYR
1	K	561	ASP
1	K	586	THR
1	L	41	TRP
1	L	50	THR
1	L	59	VAL
1	L	82	PRO
1	L	159	ASP
1	L	208	VAL
1	L	256	ASP
1	L	263	PHE
1	L	294	ALA
1	L	387	GLN
1	L	462	GLU
1	L	504	LYS
1	L	514	TYR

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Mol	Chain	Res	Type
1	L	561	ASP
1	L	586	THR
2	Y	33	THR
2	Y	39	PRO
2	Y	75	PRO
2	Y	76	PRO
2	Y	133	LYS
2	Z	33	THR
2	Z	39	PRO
2	Z	75	PRO
2	Z	76	PRO
2	Z	133	LYS
2	a	33	THR
2	a	39	PRO
2	a	75	PRO
2	a	76	PRO
2	a	133	LYS
2	b	33	THR
2	b	39	PRO
2	b	75	PRO
2	b	76	PRO
2	b	133	LYS
2	c	33	THR
2	c	39	PRO
2	c	75	PRO
2	c	76	PRO
2	c	133	LYS
2	d	33	THR
2	d	39	PRO
2	d	75	PRO
2	d	76	PRO
2	d	133	LYS
2	e	33	THR
2	e	39	PRO
2	e	75	PRO
2	e	76	PRO
2	e	133	LYS
2	f	33	THR
2	f	39	PRO
2	f	75	PRO
2	f	76	PRO
2	f	133	LYS

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Mol	Chain	Res	Type
2	g	33	THR
2	g	39	PRO
2	g	75	PRO
2	g	76	PRO
2	g	133	LYS
2	h	33	THR
2	h	39	PRO
2	h	75	PRO
2	h	76	PRO
2	h	133	LYS
2	i	33	THR
2	i	39	PRO
2	i	75	PRO
2	i	76	PRO
2	i	133	LYS
2	j	33	THR
2	j	39	PRO
2	j	75	PRO
2	j	76	PRO
2	j	133	LYS
1	M	25	ALA
1	M	159	ASP
1	M	205	ASN
1	M	267	ALA
1	M	500	ALA
1	N	25	ALA
1	N	159	ASP
1	N	205	ASN
1	N	267	ALA
1	N	295	GLY
1	N	500	ALA
1	N	513	ARG
1	O	25	ALA
1	O	76	ILE
1	O	159	ASP
1	O	205	ASN
1	O	267	ALA
1	O	295	GLY
1	O	500	ALA
1	O	513	ARG
1	P	25	ALA
1	P	49	THR

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Mol	Chain	Res	Type
1	P	159	ASP
1	P	205	ASN
1	P	267	ALA
1	P	500	ALA
1	P	513	ARG
1	Q	25	ALA
1	Q	159	ASP
1	Q	205	ASN
1	Q	267	ALA
1	Q	500	ALA
1	R	25	ALA
1	R	159	ASP
1	R	205	ASN
1	R	267	ALA
1	R	295	GLY
1	R	500	ALA
1	S	25	ALA
1	S	49	THR
1	S	159	ASP
1	S	205	ASN
1	S	267	ALA
1	S	295	GLY
1	S	500	ALA
1	S	513	ARG
1	T	25	ALA
1	T	159	ASP
1	T	205	ASN
1	T	267	ALA
1	T	500	ALA
1	T	513	ARG
1	U	25	ALA
1	U	159	ASP
1	U	205	ASN
1	U	267	ALA
1	U	295	GLY
1	U	500	ALA
1	U	513	ARG
1	V	25	ALA
1	V	159	ASP
1	V	205	ASN
1	V	267	ALA
1	V	295	GLY

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Mol	Chain	Res	Type
1	V	500	ALA
1	W	25	ALA
1	W	159	ASP
1	W	205	ASN
1	W	267	ALA
1	W	295	GLY
1	W	500	ALA
1	X	25	ALA
1	X	76	ILE
1	X	159	ASP
1	X	205	ASN
1	X	267	ALA
1	X	295	GLY
1	X	500	ALA
2	k	66	PRO
2	k	69	GLU
2	k	124	LYS
2	k	149	PHE
2	l	66	PRO
2	l	69	GLU
2	l	124	LYS
2	l	131	ARG
2	l	149	PHE
2	m	66	PRO
2	m	124	LYS
2	m	149	PHE
2	n	66	PRO
2	n	124	LYS
2	n	131	ARG
2	n	149	PHE
2	o	66	PRO
2	o	124	LYS
2	o	149	PHE
2	p	66	PRO
2	p	124	LYS
2	p	149	PHE
2	q	66	PRO
2	q	69	GLU
2	q	124	LYS
2	q	149	PHE
2	r	66	PRO
2	r	69	GLU

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Mol	Chain	Res	Type
2	r	124	LYS
2	r	131	ARG
2	r	149	PHE
2	s	66	PRO
2	s	124	LYS
2	s	149	PHE
2	t	66	PRO
2	t	124	LYS
2	t	149	PHE
2	u	66	PRO
2	u	69	GLU
2	u	124	LYS
2	u	149	PHE
2	v	66	PRO
2	v	69	GLU
2	v	124	LYS
2	v	149	PHE
1	A	267	ALA
1	A	381	SER
1	A	388	PRO
1	A	588	GLU
1	B	267	ALA
1	B	381	SER
1	B	388	PRO
1	B	588	GLU
1	C	267	ALA
1	C	381	SER
1	C	388	PRO
1	C	588	GLU
1	D	267	ALA
1	D	381	SER
1	D	388	PRO
1	D	588	GLU
1	E	267	ALA
1	E	381	SER
1	E	388	PRO
1	E	588	GLU
1	F	267	ALA
1	F	381	SER
1	F	388	PRO
1	F	588	GLU
1	G	267	ALA

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Mol	Chain	Res	Type
1	G	381	SER
1	G	388	PRO
1	G	588	GLU
1	H	267	ALA
1	H	381	SER
1	H	388	PRO
1	H	588	GLU
1	I	267	ALA
1	I	381	SER
1	I	388	PRO
1	I	588	GLU
1	J	267	ALA
1	J	381	SER
1	J	388	PRO
1	J	588	GLU
1	K	159	ASP
1	K	267	ALA
1	K	381	SER
1	K	388	PRO
1	K	588	GLU
1	L	267	ALA
1	L	381	SER
1	L	388	PRO
1	L	588	GLU
2	Y	80	ASP
2	Y	132	ALA
2	Y	140	ARG
2	Y	158	PHE
2	Z	80	ASP
2	Z	132	ALA
2	Z	140	ARG
2	Z	158	PHE
2	a	80	ASP
2	a	132	ALA
2	a	140	ARG
2	a	158	PHE
2	b	80	ASP
2	b	132	ALA
2	b	140	ARG
2	b	158	PHE
2	c	80	ASP
2	c	132	ALA

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Mol	Chain	Res	Type
2	c	140	ARG
2	c	158	PHE
2	d	80	ASP
2	d	132	ALA
2	d	140	ARG
2	d	158	PHE
2	e	80	ASP
2	e	132	ALA
2	e	140	ARG
2	e	158	PHE
2	f	80	ASP
2	f	132	ALA
2	f	140	ARG
2	f	158	PHE
2	g	80	ASP
2	g	132	ALA
2	g	140	ARG
2	g	158	PHE
2	h	80	ASP
2	h	132	ALA
2	h	140	ARG
2	h	158	PHE
2	i	80	ASP
2	i	132	ALA
2	i	140	ARG
2	i	158	PHE
2	j	80	ASP
2	j	132	ALA
2	j	140	ARG
2	j	158	PHE
1	M	8	LEU
1	M	49	THR
1	M	76	ILE
1	M	210	PRO
1	M	216	THR
1	M	295	GLY
1	M	302	PRO
1	M	381	SER
1	M	388	PRO
1	M	452	ASN
1	M	513	ARG
1	N	8	LEU

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Mol	Chain	Res	Type
1	N	49	THR
1	N	76	ILE
1	N	210	PRO
1	N	216	THR
1	N	302	PRO
1	N	388	PRO
1	N	457	MSE
1	O	8	LEU
1	O	49	THR
1	O	210	PRO
1	O	216	THR
1	O	302	PRO
1	O	381	SER
1	O	388	PRO
1	O	452	ASN
1	O	457	MSE
1	P	8	LEU
1	P	76	ILE
1	P	210	PRO
1	P	216	THR
1	P	295	GLY
1	P	302	PRO
1	P	381	SER
1	P	388	PRO
1	P	452	ASN
1	P	457	MSE
1	Q	8	LEU
1	Q	49	THR
1	Q	76	ILE
1	Q	210	PRO
1	Q	216	THR
1	Q	295	GLY
1	Q	302	PRO
1	Q	381	SER
1	Q	388	PRO
1	Q	457	MSE
1	Q	513	ARG
1	R	8	LEU
1	R	49	THR
1	R	76	ILE
1	R	210	PRO
1	R	216	THR

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Mol	Chain	Res	Type
1	R	302	PRO
1	R	388	PRO
1	R	457	MSE
1	R	513	ARG
1	S	8	LEU
1	S	76	ILE
1	S	210	PRO
1	S	216	THR
1	S	302	PRO
1	S	381	SER
1	S	388	PRO
1	S	452	ASN
1	S	457	MSE
1	T	8	LEU
1	T	49	THR
1	T	76	ILE
1	T	210	PRO
1	T	216	THR
1	T	295	GLY
1	T	302	PRO
1	T	381	SER
1	T	388	PRO
1	T	452	ASN
1	U	8	LEU
1	U	49	THR
1	U	76	ILE
1	U	210	PRO
1	U	216	THR
1	U	302	PRO
1	U	388	PRO
1	U	452	ASN
1	V	8	LEU
1	V	36	SER
1	V	49	THR
1	V	76	ILE
1	V	210	PRO
1	V	216	THR
1	V	302	PRO
1	V	388	PRO
1	V	513	ARG
1	W	8	LEU
1	W	49	THR

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Mol	Chain	Res	Type
1	W	76	ILE
1	W	210	PRO
1	W	216	THR
1	W	302	PRO
1	W	388	PRO
1	W	452	ASN
1	W	457	MSE
1	W	513	ARG
1	X	8	LEU
1	X	49	THR
1	X	210	PRO
1	X	216	THR
1	X	302	PRO
1	X	381	SER
1	X	388	PRO
1	X	457	MSE
1	X	513	ARG
2	k	131	ARG
2	m	69	GLU
2	m	131	ARG
2	n	69	GLU
2	o	69	GLU
2	o	131	ARG
2	p	69	GLU
2	p	131	ARG
2	q	131	ARG
2	s	69	GLU
2	s	131	ARG
2	t	69	GLU
2	t	131	ARG
2	u	131	ARG
2	v	131	ARG
1	A	26	ARG
1	A	36	SER
1	A	205	ASN
1	A	262	GLY
1	B	26	ARG
1	B	36	SER
1	B	205	ASN
1	B	262	GLY
1	C	26	ARG
1	C	36	SER

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Mol	Chain	Res	Type
1	C	205	ASN
1	C	262	GLY
1	D	26	ARG
1	D	36	SER
1	D	205	ASN
1	D	262	GLY
1	E	26	ARG
1	E	36	SER
1	E	205	ASN
1	E	262	GLY
1	F	26	ARG
1	F	36	SER
1	F	205	ASN
1	F	262	GLY
1	G	26	ARG
1	G	36	SER
1	G	205	ASN
1	G	262	GLY
1	H	26	ARG
1	H	36	SER
1	H	205	ASN
1	H	262	GLY
1	I	26	ARG
1	I	36	SER
1	I	205	ASN
1	I	262	GLY
1	J	26	ARG
1	J	36	SER
1	J	205	ASN
1	J	262	GLY
1	K	26	ARG
1	K	36	SER
1	K	205	ASN
1	K	262	GLY
1	L	26	ARG
1	L	36	SER
1	L	205	ASN
1	L	262	GLY
2	Y	54	ALA
2	Y	78	GLU
2	Z	54	ALA
2	Z	78	GLU

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Mol	Chain	Res	Type
2	a	54	ALA
2	a	78	GLU
2	b	54	ALA
2	b	78	GLU
2	c	54	ALA
2	c	78	GLU
2	d	54	ALA
2	d	78	GLU
2	e	54	ALA
2	e	78	GLU
2	f	54	ALA
2	f	78	GLU
2	g	54	ALA
2	g	78	GLU
2	h	54	ALA
2	h	78	GLU
2	i	54	ALA
2	i	78	GLU
2	j	54	ALA
2	j	78	GLU
1	M	192	ASP
1	M	198	ILE
1	M	244	VAL
1	M	457	MSE
1	M	583	LYS
1	N	36	SER
1	N	192	ASP
1	N	198	ILE
1	N	244	VAL
1	N	381	SER
1	N	452	ASN
1	N	583	LYS
1	O	36	SER
1	O	192	ASP
1	O	198	ILE
1	O	244	VAL
1	O	508	ASN
1	O	583	LYS
1	P	192	ASP
1	P	198	ILE
1	P	244	VAL
1	P	583	LYS

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Mol	Chain	Res	Type
1	Q	36	SER
1	Q	192	ASP
1	Q	198	ILE
1	Q	244	VAL
1	Q	452	ASN
1	Q	583	LYS
1	R	36	SER
1	R	198	ILE
1	R	244	VAL
1	R	381	SER
1	R	452	ASN
1	R	583	LYS
1	S	36	SER
1	S	192	ASP
1	S	198	ILE
1	S	244	VAL
1	S	450	GLN
1	S	583	LYS
1	T	192	ASP
1	T	198	ILE
1	T	244	VAL
1	T	457	MSE
1	T	583	LYS
1	U	36	SER
1	U	192	ASP
1	U	198	ILE
1	U	244	VAL
1	U	381	SER
1	U	457	MSE
1	U	583	LYS
1	V	192	ASP
1	V	198	ILE
1	V	244	VAL
1	V	381	SER
1	V	452	ASN
1	V	457	MSE
1	V	583	LYS
1	W	36	SER
1	W	192	ASP
1	W	198	ILE
1	W	244	VAL
1	W	381	SER

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Mol	Chain	Res	Type
1	W	583	LYS
1	X	36	SER
1	X	192	ASP
1	X	198	ILE
1	X	244	VAL
1	X	452	ASN
1	X	583	LYS
2	k	132	MET
2	l	132	MET
2	m	132	MET
2	n	132	MET
2	o	132	MET
2	p	132	MET
2	q	132	MET
2	r	132	MET
2	s	132	MET
2	t	132	MET
2	u	132	MET
2	v	132	MET
1	A	161	ASN
1	A	198	ILE
1	A	209	PHE
1	A	216	THR
1	A	244	VAL
1	A	253	ASP
1	A	380	ASN
1	A	583	LYS
1	B	161	ASN
1	B	198	ILE
1	B	209	PHE
1	B	216	THR
1	B	244	VAL
1	B	253	ASP
1	B	380	ASN
1	B	583	LYS
1	C	161	ASN
1	C	198	ILE
1	C	209	PHE
1	C	216	THR
1	C	244	VAL
1	C	253	ASP
1	C	380	ASN

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Mol	Chain	Res	Type
1	C	583	LYS
1	D	161	ASN
1	D	198	ILE
1	D	209	PHE
1	D	216	THR
1	D	244	VAL
1	D	253	ASP
1	D	380	ASN
1	D	583	LYS
1	E	161	ASN
1	E	198	ILE
1	E	209	PHE
1	E	216	THR
1	E	244	VAL
1	E	253	ASP
1	E	380	ASN
1	E	583	LYS
1	F	161	ASN
1	F	198	ILE
1	F	209	PHE
1	F	216	THR
1	F	244	VAL
1	F	253	ASP
1	F	380	ASN
1	F	583	LYS
1	G	161	ASN
1	G	198	ILE
1	G	209	PHE
1	G	216	THR
1	G	244	VAL
1	G	253	ASP
1	G	380	ASN
1	G	583	LYS
1	H	161	ASN
1	H	198	ILE
1	H	209	PHE
1	H	216	THR
1	H	244	VAL
1	H	253	ASP
1	H	380	ASN
1	H	583	LYS
1	I	161	ASN

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Mol	Chain	Res	Type
1	I	198	ILE
1	I	209	PHE
1	I	216	THR
1	I	244	VAL
1	I	253	ASP
1	I	380	ASN
1	I	583	LYS
1	J	161	ASN
1	J	198	ILE
1	J	209	PHE
1	J	216	THR
1	J	244	VAL
1	J	253	ASP
1	J	380	ASN
1	J	583	LYS
1	K	161	ASN
1	K	198	ILE
1	K	209	PHE
1	K	216	THR
1	K	244	VAL
1	K	253	ASP
1	K	380	ASN
1	K	583	LYS
1	L	161	ASN
1	L	198	ILE
1	L	209	PHE
1	L	216	THR
1	L	244	VAL
1	L	253	ASP
1	L	380	ASN
1	L	583	LYS
2	Y	141	MET
2	Y	149	PHE
2	Z	141	MET
2	Z	149	PHE
2	a	141	MET
2	a	149	PHE
2	b	141	MET
2	b	149	PHE
2	c	141	MET
2	c	149	PHE
2	d	141	MET

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Mol	Chain	Res	Type
2	d	149	PHE
2	e	141	MET
2	e	149	PHE
2	f	141	MET
2	f	149	PHE
2	g	141	MET
2	g	149	PHE
2	h	141	MET
2	h	149	PHE
2	i	141	MET
2	i	149	PHE
2	j	141	MET
2	j	149	PHE
1	M	36	SER
1	M	344	THR
1	M	450	GLN
1	M	508	ASN
1	N	262	GLY
1	N	344	THR
1	N	508	ASN
1	O	217	ILE
1	O	344	THR
1	P	445	GLU
1	P	450	GLN
1	P	508	ASN
1	Q	262	GLY
1	Q	450	GLN
1	Q	508	ASN
1	R	192	ASP
1	R	217	ILE
1	R	450	GLN
1	R	508	ASN
1	S	445	GLU
1	S	508	ASN
1	T	36	SER
1	T	217	ILE
1	T	262	GLY
1	T	450	GLN
1	T	508	ASN
1	U	262	GLY
1	U	344	THR
1	U	445	GLU

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Mol	Chain	Res	Type
1	U	450	GLN
1	U	508	ASN
1	V	344	THR
1	V	450	GLN
1	V	508	ASN
1	W	217	ILE
1	W	344	THR
1	W	450	GLN
1	W	508	ASN
1	X	344	THR
1	X	445	GLU
1	X	508	ASN
2	k	44	MET
2	l	44	MET
2	n	44	MET
2	p	44	MET
2	q	44	MET
2	r	44	MET
1	A	76	ILE
1	A	192	ASP
1	A	206	ASP
1	A	232	ALA
1	A	295	GLY
1	A	302	PRO
1	B	76	ILE
1	B	192	ASP
1	B	206	ASP
1	B	232	ALA
1	B	295	GLY
1	B	302	PRO
1	C	76	ILE
1	C	192	ASP
1	C	206	ASP
1	C	232	ALA
1	C	295	GLY
1	C	302	PRO
1	D	76	ILE
1	D	192	ASP
1	D	232	ALA
1	D	295	GLY
1	D	302	PRO
1	E	76	ILE

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Mol	Chain	Res	Type
1	E	192	ASP
1	E	206	ASP
1	E	232	ALA
1	E	295	GLY
1	E	302	PRO
1	F	76	ILE
1	F	192	ASP
1	F	206	ASP
1	F	232	ALA
1	F	295	GLY
1	F	302	PRO
1	G	76	ILE
1	G	192	ASP
1	G	206	ASP
1	G	232	ALA
1	G	295	GLY
1	G	302	PRO
1	H	76	ILE
1	H	192	ASP
1	H	206	ASP
1	H	232	ALA
1	H	295	GLY
1	H	302	PRO
1	I	76	ILE
1	I	192	ASP
1	I	232	ALA
1	I	295	GLY
1	I	302	PRO
1	J	76	ILE
1	J	192	ASP
1	J	206	ASP
1	J	232	ALA
1	J	295	GLY
1	J	302	PRO
1	K	76	ILE
1	K	192	ASP
1	K	206	ASP
1	K	232	ALA
1	K	295	GLY
1	K	302	PRO
1	L	76	ILE
1	L	192	ASP

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Mol	Chain	Res	Type
1	L	206	ASP
1	L	232	ALA
1	L	295	GLY
1	L	302	PRO
1	M	203	ASN
1	M	217	ILE
1	M	262	GLY
1	M	397	VAL
1	N	203	ASN
1	N	217	ILE
1	N	445	GLU
1	N	450	GLN
1	O	203	ASN
1	O	262	GLY
1	O	397	VAL
1	O	450	GLN
1	P	203	ASN
1	P	262	GLY
1	P	344	THR
1	Q	203	ASN
1	Q	217	ILE
1	Q	344	THR
1	Q	397	VAL
1	Q	498	ASP
1	R	203	ASN
1	R	262	GLY
1	R	344	THR
1	R	397	VAL
1	S	203	ASN
1	S	217	ILE
1	S	262	GLY
1	T	203	ASN
1	T	344	THR
1	U	203	ASN
1	U	217	ILE
1	V	203	ASN
1	V	217	ILE
1	V	262	GLY
1	W	203	ASN
1	W	262	GLY
1	W	445	GLU
1	X	203	ASN

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Mol	Chain	Res	Type
1	X	217	ILE
1	X	262	GLY
1	X	397	VAL
1	X	450	GLN
2	o	44	MET
2	s	44	MET
2	t	44	MET
2	u	44	MET
1	A	311	GLU
1	A	384	LEU
1	B	311	GLU
1	B	384	LEU
1	B	507	LEU
1	C	311	GLU
1	C	384	LEU
1	C	507	LEU
1	D	206	ASP
1	D	311	GLU
1	D	384	LEU
1	E	311	GLU
1	E	384	LEU
1	F	311	GLU
1	F	384	LEU
1	G	311	GLU
1	G	384	LEU
1	H	311	GLU
1	H	384	LEU
1	I	206	ASP
1	I	311	GLU
1	I	384	LEU
1	J	311	GLU
1	J	384	LEU
1	K	311	GLU
1	K	384	LEU
1	L	311	GLU
1	L	384	LEU
1	L	507	LEU
1	N	397	VAL
1	P	217	ILE
1	S	344	THR
1	S	397	VAL
1	T	397	VAL

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Mol	Chain	Res	Type
1	V	397	VAL
1	W	397	VAL
2	k	140	PHE
2	l	140	PHE
2	m	140	PHE
2	n	140	PHE
2	s	140	PHE
2	t	140	PHE
2	v	140	PHE
1	A	203	ASN
1	B	203	ASN
1	C	203	ASN
1	D	203	ASN
1	E	203	ASN
1	F	203	ASN
1	G	203	ASN
1	H	203	ASN
1	I	203	ASN
1	J	203	ASN
1	K	203	ASN
1	L	203	ASN
1	P	397	VAL
2	o	140	PHE
2	p	140	PHE
2	q	140	PHE
2	r	140	PHE
2	u	140	PHE
1	A	385	PRO
1	A	427	GLY
1	B	385	PRO
1	B	427	GLY
1	C	385	PRO
1	C	427	GLY
1	D	385	PRO
1	D	427	GLY
1	E	385	PRO
1	E	427	GLY
1	F	385	PRO
1	F	427	GLY
1	G	385	PRO
1	G	427	GLY
1	H	385	PRO

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Mol	Chain	Res	Type
1	H	427	GLY
1	I	385	PRO
1	I	427	GLY
1	J	385	PRO
1	J	427	GLY
1	K	385	PRO
1	K	427	GLY
1	L	385	PRO
1	L	427	GLY
1	U	397	VAL
1	M	310	VAL
1	N	310	VAL
1	O	310	VAL
1	P	310	VAL
1	Q	310	VAL
1	R	310	VAL
1	S	310	VAL
1	T	310	VAL
1	U	310	VAL
1	V	310	VAL
1	W	310	VAL
1	X	310	VAL
1	A	210	PRO
1	B	210	PRO
1	C	210	PRO
1	D	210	PRO
1	E	210	PRO
1	F	210	PRO
1	G	210	PRO
1	H	210	PRO
1	I	210	PRO
1	J	210	PRO
1	K	210	PRO
1	L	210	PRO

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 X-ray entries followed by that with respect to entries of similar resolution. 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	A	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	B	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	C	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	D	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	E	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	F	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	G	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	H	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	I	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	J	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	K	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	L	483/510 (95%)	412 (85%)	71 (15%)	4	23
1	M	485/510 (95%)	412 (85%)	73 (15%)	4	21
1	N	485/510 (95%)	412 (85%)	73 (15%)	4	21
1	O	485/510 (95%)	413 (85%)	72 (15%)	4	22
1	P	485/510 (95%)	413 (85%)	72 (15%)	4	22
1	Q	485/510 (95%)	412 (85%)	73 (15%)	4	21
1	R	485/510 (95%)	411 (85%)	74 (15%)	4	21
1	S	485/510 (95%)	411 (85%)	74 (15%)	4	21
1	T	485/510 (95%)	412 (85%)	73 (15%)	4	21
1	U	485/510 (95%)	413 (85%)	72 (15%)	4	22
1	V	485/510 (95%)	413 (85%)	72 (15%)	4	22
1	W	485/510 (95%)	413 (85%)	72 (15%)	4	22
1	X	485/510 (95%)	411 (85%)	74 (15%)	4	21
2	Y	98/132 (74%)	85 (87%)	13 (13%)	6	28
2	Z	98/132 (74%)	85 (87%)	13 (13%)	6	28
2	a	98/132 (74%)	84 (86%)	14 (14%)	5	24
2	b	98/132 (74%)	84 (86%)	14 (14%)	5	24
2	c	98/132 (74%)	85 (87%)	13 (13%)	6	28
2	d	98/132 (74%)	85 (87%)	13 (13%)	6	28
2	e	98/132 (74%)	85 (87%)	13 (13%)	6	28
2	f	98/132 (74%)	84 (86%)	14 (14%)	5	24

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	g	98/132 (74%)	84 (86%)	14 (14%)	5	24
2	h	98/132 (74%)	85 (87%)	13 (13%)	6	28
2	i	98/132 (74%)	85 (87%)	13 (13%)	6	28
2	j	98/132 (74%)	84 (86%)	14 (14%)	5	24
2	k	100/132 (76%)	88 (88%)	12 (12%)	7	34
2	l	100/132 (76%)	87 (87%)	13 (13%)	6	30
2	m	100/132 (76%)	88 (88%)	12 (12%)	7	34
2	n	100/132 (76%)	87 (87%)	13 (13%)	6	30
2	o	100/132 (76%)	85 (85%)	15 (15%)	4	21
2	p	100/132 (76%)	86 (86%)	14 (14%)	5	25
2	q	100/132 (76%)	88 (88%)	12 (12%)	7	34
2	r	100/132 (76%)	88 (88%)	12 (12%)	7	34
2	s	100/132 (76%)	87 (87%)	13 (13%)	6	30
2	t	100/132 (76%)	87 (87%)	13 (13%)	6	30
2	u	100/132 (76%)	87 (87%)	13 (13%)	6	30
2	v	100/132 (76%)	87 (87%)	13 (13%)	6	30
All	All	13992/15408 (91%)	11950 (85%)	2042 (15%)	5	23

All (2042) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	M	14	ARG
1	M	15	PHE
1	M	24	GLU
1	M	30	LYS
1	M	31	ASN
1	M	33	LEU
1	M	40	GLN
1	M	42	ASP
1	M	47	GLN
1	M	49	THR
1	M	50	THR
1	M	56	GLN
1	M	59	VAL
1	M	61	ARG
1	M	69	SER

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Mol	Chain	Res	Type
1	M	79	LEU
1	M	94	LEU
1	M	101	ASP
1	M	123	VAL
1	M	127	ARG
1	M	133	GLU
1	M	135	GLN
1	M	144	ILE
1	M	156	VAL
1	M	157	ILE
1	M	158	TRP
1	M	161	ASN
1	M	164	LEU
1	M	174	THR
1	M	175	VAL
1	M	190	LYS
1	M	201	PHE
1	M	202	GLN
1	M	209	PHE
1	M	211	TRP
1	M	217	ILE
1	M	218	GLN
1	M	226	VAL
1	M	228	LYS
1	M	231	THR
1	M	234	ILE
1	M	246	TYR
1	M	248	LYS
1	M	265	LYS
1	M	266	ILE
1	M	275	ARG
1	M	286	VAL
1	M	293	ILE
1	M	298	ILE
1	M	301	VAL
1	M	311	GLU
1	M	327	GLN
1	M	343	ARG
1	M	356	ILE
1	M	359	PHE
1	M	376	ARG
1	M	378	ASP

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Mol	Chain	Res	Type
1	M	384	LEU
1	M	387	GLN
1	M	389	LEU
1	M	405	LEU
1	M	430	VAL
1	M	433	ASP
1	M	444	LEU
1	M	451	ASP
1	M	510	ILE
1	M	513	ARG
1	M	518	THR
1	M	541	LYS
1	M	546	THR
1	M	558	THR
1	M	592	TRP
1	M	593	LEU
1	N	14	ARG
1	N	15	PHE
1	N	24	GLU
1	N	30	LYS
1	N	31	ASN
1	N	33	LEU
1	N	40	GLN
1	N	42	ASP
1	N	47	GLN
1	N	49	THR
1	N	50	THR
1	N	56	GLN
1	N	59	VAL
1	N	61	ARG
1	N	69	SER
1	N	79	LEU
1	N	94	LEU
1	N	101	ASP
1	N	123	VAL
1	N	127	ARG
1	N	133	GLU
1	N	135	GLN
1	N	144	ILE
1	N	156	VAL
1	N	157	ILE
1	N	158	TRP

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Mol	Chain	Res	Type
1	N	161	ASN
1	N	164	LEU
1	N	174	THR
1	N	175	VAL
1	N	190	LYS
1	N	201	PHE
1	N	202	GLN
1	N	209	PHE
1	N	211	TRP
1	N	217	ILE
1	N	218	GLN
1	N	226	VAL
1	N	228	LYS
1	N	231	THR
1	N	234	ILE
1	N	246	TYR
1	N	248	LYS
1	N	265	LYS
1	N	266	ILE
1	N	273	ARG
1	N	275	ARG
1	N	286	VAL
1	N	293	ILE
1	N	298	ILE
1	N	301	VAL
1	N	327	GLN
1	N	343	ARG
1	N	356	ILE
1	N	359	PHE
1	N	376	ARG
1	N	378	ASP
1	N	384	LEU
1	N	387	GLN
1	N	389	LEU
1	N	405	LEU
1	N	430	VAL
1	N	433	ASP
1	N	444	LEU
1	N	451	ASP
1	N	510	ILE
1	N	513	ARG
1	N	518	THR

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Mol	Chain	Res	Type
1	N	541	LYS
1	N	546	THR
1	N	558	THR
1	N	592	TRP
1	N	593	LEU
1	O	14	ARG
1	O	15	PHE
1	O	24	GLU
1	O	30	LYS
1	O	31	ASN
1	O	33	LEU
1	O	40	GLN
1	O	42	ASP
1	O	47	GLN
1	O	49	THR
1	O	50	THR
1	O	56	GLN
1	O	59	VAL
1	O	61	ARG
1	O	69	SER
1	O	79	LEU
1	O	94	LEU
1	O	101	ASP
1	O	123	VAL
1	O	127	ARG
1	O	133	GLU
1	O	135	GLN
1	O	144	ILE
1	O	156	VAL
1	O	157	ILE
1	O	158	TRP
1	O	161	ASN
1	O	164	LEU
1	O	174	THR
1	O	175	VAL
1	O	190	LYS
1	O	201	PHE
1	O	202	GLN
1	O	209	PHE
1	O	211	TRP
1	O	217	ILE
1	O	218	GLN

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Mol	Chain	Res	Type
1	O	225	VAL
1	O	226	VAL
1	O	228	LYS
1	O	231	THR
1	O	234	ILE
1	O	246	TYR
1	O	248	LYS
1	O	265	LYS
1	O	266	ILE
1	O	275	ARG
1	O	286	VAL
1	O	293	ILE
1	O	298	ILE
1	O	301	VAL
1	O	327	GLN
1	O	343	ARG
1	O	356	ILE
1	O	359	PHE
1	O	376	ARG
1	O	378	ASP
1	O	384	LEU
1	O	387	GLN
1	O	389	LEU
1	O	405	LEU
1	O	433	ASP
1	O	444	LEU
1	O	451	ASP
1	O	510	ILE
1	O	513	ARG
1	O	518	THR
1	O	541	LYS
1	O	546	THR
1	O	558	THR
1	O	592	TRP
1	O	593	LEU
1	P	14	ARG
1	P	15	PHE
1	P	24	GLU
1	P	30	LYS
1	P	31	ASN
1	P	33	LEU
1	P	40	GLN

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Mol	Chain	Res	Type
1	P	42	ASP
1	P	47	GLN
1	P	49	THR
1	P	50	THR
1	P	56	GLN
1	P	59	VAL
1	P	61	ARG
1	P	69	SER
1	P	79	LEU
1	P	94	LEU
1	P	101	ASP
1	P	123	VAL
1	P	127	ARG
1	P	133	GLU
1	P	135	GLN
1	P	144	ILE
1	P	156	VAL
1	P	157	ILE
1	P	158	TRP
1	P	161	ASN
1	P	164	LEU
1	P	174	THR
1	P	175	VAL
1	P	190	LYS
1	P	201	PHE
1	P	202	GLN
1	P	209	PHE
1	P	211	TRP
1	P	217	ILE
1	P	218	GLN
1	P	225	VAL
1	P	226	VAL
1	P	228	LYS
1	P	231	THR
1	P	234	ILE
1	P	246	TYR
1	P	248	LYS
1	P	265	LYS
1	P	266	ILE
1	P	275	ARG
1	P	286	VAL
1	P	293	ILE

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Mol	Chain	Res	Type
1	P	298	ILE
1	P	301	VAL
1	P	327	GLN
1	P	343	ARG
1	P	356	ILE
1	P	359	PHE
1	P	376	ARG
1	P	378	ASP
1	P	384	LEU
1	P	387	GLN
1	P	389	LEU
1	P	430	VAL
1	P	433	ASP
1	P	444	LEU
1	P	451	ASP
1	P	510	ILE
1	P	513	ARG
1	P	518	THR
1	P	541	LYS
1	P	546	THR
1	P	558	THR
1	P	592	TRP
1	P	593	LEU
1	Q	14	ARG
1	Q	15	PHE
1	Q	24	GLU
1	Q	30	LYS
1	Q	31	ASN
1	Q	33	LEU
1	Q	40	GLN
1	Q	42	ASP
1	Q	47	GLN
1	Q	49	THR
1	Q	50	THR
1	Q	56	GLN
1	Q	59	VAL
1	Q	61	ARG
1	Q	69	SER
1	Q	79	LEU
1	Q	94	LEU
1	Q	101	ASP
1	Q	123	VAL

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Mol	Chain	Res	Type
1	Q	127	ARG
1	Q	133	GLU
1	Q	135	GLN
1	Q	144	ILE
1	Q	156	VAL
1	Q	157	ILE
1	Q	158	TRP
1	Q	161	ASN
1	Q	164	LEU
1	Q	174	THR
1	Q	175	VAL
1	Q	190	LYS
1	Q	201	PHE
1	Q	202	GLN
1	Q	209	PHE
1	Q	211	TRP
1	Q	217	ILE
1	Q	218	GLN
1	Q	225	VAL
1	Q	226	VAL
1	Q	228	LYS
1	Q	231	THR
1	Q	234	ILE
1	Q	246	TYR
1	Q	248	LYS
1	Q	265	LYS
1	Q	266	ILE
1	Q	275	ARG
1	Q	286	VAL
1	Q	293	ILE
1	Q	298	ILE
1	Q	301	VAL
1	Q	327	GLN
1	Q	343	ARG
1	Q	356	ILE
1	Q	359	PHE
1	Q	376	ARG
1	Q	378	ASP
1	Q	384	LEU
1	Q	387	GLN
1	Q	389	LEU
1	Q	405	LEU

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Mol	Chain	Res	Type
1	Q	430	VAL
1	Q	433	ASP
1	Q	444	LEU
1	Q	451	ASP
1	Q	510	ILE
1	Q	513	ARG
1	Q	518	THR
1	Q	541	LYS
1	Q	546	THR
1	Q	558	THR
1	Q	592	TRP
1	Q	593	LEU
1	R	14	ARG
1	R	15	PHE
1	R	24	GLU
1	R	30	LYS
1	R	31	ASN
1	R	33	LEU
1	R	40	GLN
1	R	42	ASP
1	R	47	GLN
1	R	49	THR
1	R	50	THR
1	R	56	GLN
1	R	59	VAL
1	R	69	SER
1	R	79	LEU
1	R	94	LEU
1	R	101	ASP
1	R	123	VAL
1	R	127	ARG
1	R	133	GLU
1	R	135	GLN
1	R	144	ILE
1	R	156	VAL
1	R	157	ILE
1	R	158	TRP
1	R	161	ASN
1	R	164	LEU
1	R	174	THR
1	R	175	VAL
1	R	190	LYS

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Mol	Chain	Res	Type
1	R	201	PHE
1	R	202	GLN
1	R	209	PHE
1	R	211	TRP
1	R	217	ILE
1	R	218	GLN
1	R	225	VAL
1	R	226	VAL
1	R	228	LYS
1	R	231	THR
1	R	234	ILE
1	R	246	TYR
1	R	248	LYS
1	R	265	LYS
1	R	266	ILE
1	R	275	ARG
1	R	286	VAL
1	R	293	ILE
1	R	298	ILE
1	R	301	VAL
1	R	311	GLU
1	R	315	VAL
1	R	327	GLN
1	R	343	ARG
1	R	356	ILE
1	R	359	PHE
1	R	376	ARG
1	R	378	ASP
1	R	384	LEU
1	R	387	GLN
1	R	389	LEU
1	R	405	LEU
1	R	430	VAL
1	R	433	ASP
1	R	444	LEU
1	R	451	ASP
1	R	510	ILE
1	R	513	ARG
1	R	518	THR
1	R	541	LYS
1	R	546	THR
1	R	558	THR

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Mol	Chain	Res	Type
1	R	592	TRP
1	R	593	LEU
1	S	14	ARG
1	S	15	PHE
1	S	24	GLU
1	S	30	LYS
1	S	31	ASN
1	S	33	LEU
1	S	40	GLN
1	S	42	ASP
1	S	47	GLN
1	S	49	THR
1	S	50	THR
1	S	56	GLN
1	S	59	VAL
1	S	61	ARG
1	S	69	SER
1	S	79	LEU
1	S	94	LEU
1	S	101	ASP
1	S	123	VAL
1	S	127	ARG
1	S	133	GLU
1	S	135	GLN
1	S	144	ILE
1	S	156	VAL
1	S	157	ILE
1	S	158	TRP
1	S	161	ASN
1	S	164	LEU
1	S	174	THR
1	S	175	VAL
1	S	190	LYS
1	S	201	PHE
1	S	202	GLN
1	S	209	PHE
1	S	211	TRP
1	S	217	ILE
1	S	218	GLN
1	S	225	VAL
1	S	226	VAL
1	S	228	LYS

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Mol	Chain	Res	Type
1	S	231	THR
1	S	234	ILE
1	S	246	TYR
1	S	248	LYS
1	S	265	LYS
1	S	266	ILE
1	S	275	ARG
1	S	286	VAL
1	S	293	ILE
1	S	298	ILE
1	S	301	VAL
1	S	311	GLU
1	S	327	GLN
1	S	343	ARG
1	S	356	ILE
1	S	359	PHE
1	S	376	ARG
1	S	378	ASP
1	S	384	LEU
1	S	387	GLN
1	S	389	LEU
1	S	405	LEU
1	S	430	VAL
1	S	433	ASP
1	S	444	LEU
1	S	451	ASP
1	S	510	ILE
1	S	513	ARG
1	S	518	THR
1	S	541	LYS
1	S	546	THR
1	S	558	THR
1	S	592	TRP
1	S	593	LEU
1	T	14	ARG
1	T	15	PHE
1	T	24	GLU
1	T	30	LYS
1	T	31	ASN
1	T	33	LEU
1	T	40	GLN
1	T	42	ASP

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Mol	Chain	Res	Type
1	T	47	GLN
1	T	49	THR
1	T	50	THR
1	T	56	GLN
1	T	59	VAL
1	T	61	ARG
1	T	69	SER
1	T	79	LEU
1	T	94	LEU
1	T	101	ASP
1	T	123	VAL
1	T	127	ARG
1	T	133	GLU
1	T	135	GLN
1	T	144	ILE
1	T	156	VAL
1	T	157	ILE
1	T	158	TRP
1	T	161	ASN
1	T	164	LEU
1	T	174	THR
1	T	175	VAL
1	T	190	LYS
1	T	201	PHE
1	T	202	GLN
1	T	209	PHE
1	T	211	TRP
1	T	217	ILE
1	T	218	GLN
1	T	225	VAL
1	T	226	VAL
1	T	228	LYS
1	T	231	THR
1	T	234	ILE
1	T	246	TYR
1	T	248	LYS
1	T	265	LYS
1	T	266	ILE
1	T	275	ARG
1	T	286	VAL
1	T	293	ILE
1	T	298	ILE

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Mol	Chain	Res	Type
1	T	301	VAL
1	T	327	GLN
1	T	343	ARG
1	T	356	ILE
1	T	359	PHE
1	T	376	ARG
1	T	378	ASP
1	T	384	LEU
1	T	387	GLN
1	T	389	LEU
1	T	405	LEU
1	T	430	VAL
1	T	433	ASP
1	T	444	LEU
1	T	451	ASP
1	T	510	ILE
1	T	513	ARG
1	T	518	THR
1	T	541	LYS
1	T	546	THR
1	T	558	THR
1	T	592	TRP
1	T	593	LEU
1	U	14	ARG
1	U	15	PHE
1	U	24	GLU
1	U	30	LYS
1	U	31	ASN
1	U	33	LEU
1	U	40	GLN
1	U	42	ASP
1	U	47	GLN
1	U	49	THR
1	U	50	THR
1	U	56	GLN
1	U	59	VAL
1	U	61	ARG
1	U	69	SER
1	U	79	LEU
1	U	94	LEU
1	U	101	ASP
1	U	123	VAL

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Mol	Chain	Res	Type
1	U	127	ARG
1	U	133	GLU
1	U	135	GLN
1	U	144	ILE
1	U	156	VAL
1	U	157	ILE
1	U	158	TRP
1	U	161	ASN
1	U	164	LEU
1	U	174	THR
1	U	175	VAL
1	U	190	LYS
1	U	201	PHE
1	U	202	GLN
1	U	209	PHE
1	U	211	TRP
1	U	217	ILE
1	U	218	GLN
1	U	226	VAL
1	U	228	LYS
1	U	231	THR
1	U	234	ILE
1	U	246	TYR
1	U	248	LYS
1	U	265	LYS
1	U	266	ILE
1	U	275	ARG
1	U	286	VAL
1	U	293	ILE
1	U	298	ILE
1	U	301	VAL
1	U	327	GLN
1	U	343	ARG
1	U	356	ILE
1	U	359	PHE
1	U	376	ARG
1	U	378	ASP
1	U	384	LEU
1	U	387	GLN
1	U	389	LEU
1	U	405	LEU
1	U	430	VAL

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Mol	Chain	Res	Type
1	U	433	ASP
1	U	444	LEU
1	U	451	ASP
1	U	510	ILE
1	U	513	ARG
1	U	518	THR
1	U	541	LYS
1	U	546	THR
1	U	558	THR
1	U	592	TRP
1	U	593	LEU
1	V	14	ARG
1	V	15	PHE
1	V	24	GLU
1	V	30	LYS
1	V	31	ASN
1	V	33	LEU
1	V	40	GLN
1	V	42	ASP
1	V	47	GLN
1	V	49	THR
1	V	50	THR
1	V	56	GLN
1	V	59	VAL
1	V	61	ARG
1	V	69	SER
1	V	79	LEU
1	V	94	LEU
1	V	101	ASP
1	V	123	VAL
1	V	127	ARG
1	V	133	GLU
1	V	135	GLN
1	V	144	ILE
1	V	156	VAL
1	V	157	ILE
1	V	158	TRP
1	V	161	ASN
1	V	164	LEU
1	V	174	THR
1	V	175	VAL
1	V	190	LYS

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Mol	Chain	Res	Type
1	V	201	PHE
1	V	202	GLN
1	V	209	PHE
1	V	211	TRP
1	V	217	ILE
1	V	218	GLN
1	V	226	VAL
1	V	228	LYS
1	V	231	THR
1	V	234	ILE
1	V	246	TYR
1	V	248	LYS
1	V	265	LYS
1	V	266	ILE
1	V	275	ARG
1	V	286	VAL
1	V	293	ILE
1	V	298	ILE
1	V	301	VAL
1	V	327	GLN
1	V	343	ARG
1	V	356	ILE
1	V	359	PHE
1	V	376	ARG
1	V	378	ASP
1	V	384	LEU
1	V	387	GLN
1	V	389	LEU
1	V	405	LEU
1	V	430	VAL
1	V	433	ASP
1	V	444	LEU
1	V	451	ASP
1	V	510	ILE
1	V	513	ARG
1	V	518	THR
1	V	541	LYS
1	V	546	THR
1	V	558	THR
1	V	592	TRP
1	V	593	LEU
1	W	14	ARG

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Mol	Chain	Res	Type
1	W	15	PHE
1	W	24	GLU
1	W	30	LYS
1	W	31	ASN
1	W	33	LEU
1	W	40	GLN
1	W	42	ASP
1	W	47	GLN
1	W	49	THR
1	W	50	THR
1	W	56	GLN
1	W	59	VAL
1	W	61	ARG
1	W	69	SER
1	W	79	LEU
1	W	94	LEU
1	W	101	ASP
1	W	123	VAL
1	W	127	ARG
1	W	133	GLU
1	W	135	GLN
1	W	144	ILE
1	W	156	VAL
1	W	157	ILE
1	W	158	TRP
1	W	161	ASN
1	W	164	LEU
1	W	174	THR
1	W	175	VAL
1	W	190	LYS
1	W	201	PHE
1	W	202	GLN
1	W	209	PHE
1	W	211	TRP
1	W	217	ILE
1	W	218	GLN
1	W	225	VAL
1	W	226	VAL
1	W	228	LYS
1	W	231	THR
1	W	234	ILE
1	W	246	TYR

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Mol	Chain	Res	Type
1	W	248	LYS
1	W	265	LYS
1	W	266	ILE
1	W	275	ARG
1	W	286	VAL
1	W	293	ILE
1	W	298	ILE
1	W	301	VAL
1	W	327	GLN
1	W	343	ARG
1	W	356	ILE
1	W	359	PHE
1	W	376	ARG
1	W	378	ASP
1	W	384	LEU
1	W	387	GLN
1	W	389	LEU
1	W	430	VAL
1	W	433	ASP
1	W	444	LEU
1	W	451	ASP
1	W	510	ILE
1	W	513	ARG
1	W	518	THR
1	W	541	LYS
1	W	546	THR
1	W	558	THR
1	W	592	TRP
1	W	593	LEU
1	X	14	ARG
1	X	15	PHE
1	X	24	GLU
1	X	30	LYS
1	X	31	ASN
1	X	33	LEU
1	X	40	GLN
1	X	42	ASP
1	X	47	GLN
1	X	49	THR
1	X	50	THR
1	X	56	GLN
1	X	59	VAL

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Mol	Chain	Res	Type
1	X	69	SER
1	X	79	LEU
1	X	94	LEU
1	X	101	ASP
1	X	123	VAL
1	X	127	ARG
1	X	133	GLU
1	X	135	GLN
1	X	144	ILE
1	X	156	VAL
1	X	157	ILE
1	X	158	TRP
1	X	161	ASN
1	X	164	LEU
1	X	174	THR
1	X	175	VAL
1	X	190	LYS
1	X	201	PHE
1	X	202	GLN
1	X	209	PHE
1	X	211	TRP
1	X	217	ILE
1	X	218	GLN
1	X	225	VAL
1	X	226	VAL
1	X	228	LYS
1	X	231	THR
1	X	234	ILE
1	X	246	TYR
1	X	248	LYS
1	X	265	LYS
1	X	266	ILE
1	X	275	ARG
1	X	286	VAL
1	X	293	ILE
1	X	298	ILE
1	X	301	VAL
1	X	311	GLU
1	X	327	GLN
1	X	343	ARG
1	X	356	ILE
1	X	359	PHE

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Mol	Chain	Res	Type
1	X	376	ARG
1	X	378	ASP
1	X	384	LEU
1	X	387	GLN
1	X	389	LEU
1	X	405	LEU
1	X	430	VAL
1	X	433	ASP
1	X	444	LEU
1	X	451	ASP
1	X	510	ILE
1	X	513	ARG
1	X	518	THR
1	X	541	LYS
1	X	546	THR
1	X	558	THR
1	X	561	ASP
1	X	592	TRP
1	X	593	LEU
2	k	16	LYS
2	k	27	ASP
2	k	29	GLU
2	k	33	MET
2	k	39	ASP
2	k	69	GLU
2	k	71	ASP
2	k	84	PHE
2	k	87	LEU
2	k	130	SER
2	k	131	ARG
2	k	136	SER
2	l	16	LYS
2	l	27	ASP
2	l	29	GLU
2	l	33	MET
2	l	39	ASP
2	l	69	GLU
2	l	71	ASP
2	l	84	PHE
2	l	87	LEU
2	l	100	THR
2	l	130	SER

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Mol	Chain	Res	Type
2	l	131	ARG
2	l	136	SER
2	m	16	LYS
2	m	27	ASP
2	m	29	GLU
2	m	33	MET
2	m	39	ASP
2	m	69	GLU
2	m	71	ASP
2	m	84	PHE
2	m	87	LEU
2	m	130	SER
2	m	131	ARG
2	m	136	SER
2	n	16	LYS
2	n	27	ASP
2	n	29	GLU
2	n	33	MET
2	n	39	ASP
2	n	56	THR
2	n	69	GLU
2	n	71	ASP
2	n	84	PHE
2	n	87	LEU
2	n	130	SER
2	n	131	ARG
2	n	136	SER
2	o	16	LYS
2	o	27	ASP
2	o	29	GLU
2	o	33	MET
2	o	37	VAL
2	o	39	ASP
2	o	56	THR
2	o	69	GLU
2	o	71	ASP
2	o	84	PHE
2	o	87	LEU
2	o	100	THR
2	o	130	SER
2	o	131	ARG
2	o	136	SER

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Mol	Chain	Res	Type
2	p	16	LYS
2	p	27	ASP
2	p	29	GLU
2	p	33	MET
2	p	37	VAL
2	p	39	ASP
2	p	56	THR
2	p	69	GLU
2	p	71	ASP
2	p	84	PHE
2	p	87	LEU
2	p	130	SER
2	p	131	ARG
2	p	136	SER
2	q	16	LYS
2	q	27	ASP
2	q	29	GLU
2	q	33	MET
2	q	39	ASP
2	q	69	GLU
2	q	71	ASP
2	q	84	PHE
2	q	87	LEU
2	q	130	SER
2	q	131	ARG
2	q	136	SER
2	r	16	LYS
2	r	27	ASP
2	r	29	GLU
2	r	33	MET
2	r	39	ASP
2	r	69	GLU
2	r	71	ASP
2	r	84	PHE
2	r	87	LEU
2	r	130	SER
2	r	131	ARG
2	r	136	SER
2	s	16	LYS
2	s	27	ASP
2	s	29	GLU
2	s	33	MET

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Mol	Chain	Res	Type
2	s	37	VAL
2	s	39	ASP
2	s	69	GLU
2	s	71	ASP
2	s	84	PHE
2	s	87	LEU
2	s	130	SER
2	s	131	ARG
2	s	136	SER
2	t	16	LYS
2	t	27	ASP
2	t	29	GLU
2	t	33	MET
2	t	39	ASP
2	t	56	THR
2	t	69	GLU
2	t	71	ASP
2	t	84	PHE
2	t	87	LEU
2	t	130	SER
2	t	131	ARG
2	t	136	SER
2	u	16	LYS
2	u	27	ASP
2	u	29	GLU
2	u	33	MET
2	u	39	ASP
2	u	69	GLU
2	u	71	ASP
2	u	84	PHE
2	u	87	LEU
2	u	100	THR
2	u	130	SER
2	u	131	ARG
2	u	136	SER
2	v	16	LYS
2	v	27	ASP
2	v	29	GLU
2	v	33	MET
2	v	37	VAL
2	v	39	ASP
2	v	69	GLU

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Mol	Chain	Res	Type
2	v	71	ASP
2	v	84	PHE
2	v	87	LEU
2	v	130	SER
2	v	131	ARG
2	v	136	SER
1	A	14	ARG
1	A	15	PHE
1	A	24	GLU
1	A	30	LYS
1	A	31	ASN
1	A	33	LEU
1	A	37	ARG
1	A	42	ASP
1	A	43	ASP
1	A	45	LEU
1	A	47	GLN
1	A	56	GLN
1	A	61	ARG
1	A	79	LEU
1	A	118	GLN
1	A	123	VAL
1	A	127	ARG
1	A	133	GLU
1	A	135	GLN
1	A	144	ILE
1	A	157	ILE
1	A	158	TRP
1	A	161	ASN
1	A	164	LEU
1	A	168	SER
1	A	174	THR
1	A	190	LYS
1	A	201	PHE
1	A	202	GLN
1	A	209	PHE
1	A	211	TRP
1	A	217	ILE
1	A	218	GLN
1	A	226	VAL
1	A	234	ILE
1	A	246	TYR

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Mol	Chain	Res	Type
1	A	248	LYS
1	A	265	LYS
1	A	266	ILE
1	A	273	ARG
1	A	275	ARG
1	A	286	VAL
1	A	293	ILE
1	A	301	VAL
1	A	315	VAL
1	A	325	ASP
1	A	327	GLN
1	A	343	ARG
1	A	359	PHE
1	A	376	ARG
1	A	384	LEU
1	A	387	GLN
1	A	389	LEU
1	A	405	LEU
1	A	421	ASP
1	A	422	THR
1	A	430	VAL
1	A	432	PHE
1	A	433	ASP
1	A	438	LEU
1	A	444	LEU
1	A	507	LEU
1	A	513	ARG
1	A	518	THR
1	A	529	GLN
1	A	541	LYS
1	A	546	THR
1	A	555	GLN
1	A	592	TRP
1	A	593	LEU
1	A	597	GLN
1	B	14	ARG
1	B	15	PHE
1	B	24	GLU
1	B	30	LYS
1	B	31	ASN
1	B	33	LEU
1	B	37	ARG

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Mol	Chain	Res	Type
1	B	42	ASP
1	B	43	ASP
1	B	45	LEU
1	B	47	GLN
1	B	56	GLN
1	B	61	ARG
1	B	79	LEU
1	B	118	GLN
1	B	123	VAL
1	B	127	ARG
1	B	133	GLU
1	B	135	GLN
1	B	144	ILE
1	B	157	ILE
1	B	158	TRP
1	B	161	ASN
1	B	164	LEU
1	B	168	SER
1	B	174	THR
1	B	190	LYS
1	B	201	PHE
1	B	202	GLN
1	B	209	PHE
1	B	211	TRP
1	B	217	ILE
1	B	218	GLN
1	B	226	VAL
1	B	234	ILE
1	B	246	TYR
1	B	248	LYS
1	B	265	LYS
1	B	266	ILE
1	B	273	ARG
1	B	275	ARG
1	B	286	VAL
1	B	293	ILE
1	B	301	VAL
1	B	315	VAL
1	B	325	ASP
1	B	327	GLN
1	B	343	ARG
1	B	359	PHE

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Mol	Chain	Res	Type
1	B	376	ARG
1	B	384	LEU
1	B	387	GLN
1	B	389	LEU
1	B	405	LEU
1	B	421	ASP
1	B	422	THR
1	B	430	VAL
1	B	432	PHE
1	B	433	ASP
1	B	438	LEU
1	B	444	LEU
1	B	507	LEU
1	B	513	ARG
1	B	518	THR
1	B	529	GLN
1	B	541	LYS
1	B	546	THR
1	B	555	GLN
1	B	592	TRP
1	B	593	LEU
1	B	597	GLN
1	C	14	ARG
1	C	15	PHE
1	C	24	GLU
1	C	30	LYS
1	C	31	ASN
1	C	33	LEU
1	C	37	ARG
1	C	42	ASP
1	C	43	ASP
1	C	45	LEU
1	C	47	GLN
1	C	56	GLN
1	C	61	ARG
1	C	79	LEU
1	C	118	GLN
1	C	123	VAL
1	C	127	ARG
1	C	133	GLU
1	C	135	GLN
1	C	144	ILE

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Mol	Chain	Res	Type
1	C	157	ILE
1	C	158	TRP
1	C	161	ASN
1	C	164	LEU
1	C	168	SER
1	C	174	THR
1	C	190	LYS
1	C	201	PHE
1	C	202	GLN
1	C	209	PHE
1	C	211	TRP
1	C	217	ILE
1	C	218	GLN
1	C	226	VAL
1	C	234	ILE
1	C	246	TYR
1	C	248	LYS
1	C	265	LYS
1	C	266	ILE
1	C	273	ARG
1	C	275	ARG
1	C	286	VAL
1	C	293	ILE
1	C	301	VAL
1	C	315	VAL
1	C	325	ASP
1	C	327	GLN
1	C	343	ARG
1	C	359	PHE
1	C	376	ARG
1	C	384	LEU
1	C	387	GLN
1	C	389	LEU
1	C	405	LEU
1	C	421	ASP
1	C	422	THR
1	C	430	VAL
1	C	432	PHE
1	C	433	ASP
1	C	438	LEU
1	C	444	LEU
1	C	507	LEU

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Mol	Chain	Res	Type
1	C	513	ARG
1	C	518	THR
1	C	529	GLN
1	C	541	LYS
1	C	546	THR
1	C	555	GLN
1	C	592	TRP
1	C	593	LEU
1	C	597	GLN
1	D	14	ARG
1	D	15	PHE
1	D	24	GLU
1	D	30	LYS
1	D	31	ASN
1	D	33	LEU
1	D	37	ARG
1	D	42	ASP
1	D	43	ASP
1	D	45	LEU
1	D	47	GLN
1	D	56	GLN
1	D	61	ARG
1	D	79	LEU
1	D	118	GLN
1	D	123	VAL
1	D	127	ARG
1	D	133	GLU
1	D	135	GLN
1	D	144	ILE
1	D	157	ILE
1	D	158	TRP
1	D	161	ASN
1	D	164	LEU
1	D	168	SER
1	D	174	THR
1	D	190	LYS
1	D	201	PHE
1	D	202	GLN
1	D	209	PHE
1	D	211	TRP
1	D	217	ILE
1	D	218	GLN

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Mol	Chain	Res	Type
1	D	226	VAL
1	D	234	ILE
1	D	246	TYR
1	D	248	LYS
1	D	265	LYS
1	D	266	ILE
1	D	273	ARG
1	D	275	ARG
1	D	286	VAL
1	D	293	ILE
1	D	301	VAL
1	D	315	VAL
1	D	325	ASP
1	D	327	GLN
1	D	343	ARG
1	D	359	PHE
1	D	376	ARG
1	D	384	LEU
1	D	387	GLN
1	D	389	LEU
1	D	405	LEU
1	D	421	ASP
1	D	422	THR
1	D	430	VAL
1	D	432	PHE
1	D	433	ASP
1	D	438	LEU
1	D	444	LEU
1	D	507	LEU
1	D	513	ARG
1	D	518	THR
1	D	529	GLN
1	D	541	LYS
1	D	546	THR
1	D	555	GLN
1	D	592	TRP
1	D	593	LEU
1	D	597	GLN
1	E	14	ARG
1	E	15	PHE
1	E	24	GLU
1	E	30	LYS

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Mol	Chain	Res	Type
1	E	31	ASN
1	E	33	LEU
1	E	37	ARG
1	E	42	ASP
1	E	43	ASP
1	E	45	LEU
1	E	47	GLN
1	E	56	GLN
1	E	61	ARG
1	E	79	LEU
1	E	118	GLN
1	E	123	VAL
1	E	127	ARG
1	E	133	GLU
1	E	135	GLN
1	E	144	ILE
1	E	157	ILE
1	E	158	TRP
1	E	161	ASN
1	E	164	LEU
1	E	168	SER
1	E	174	THR
1	E	190	LYS
1	E	201	PHE
1	E	202	GLN
1	E	209	PHE
1	E	211	TRP
1	E	217	ILE
1	E	218	GLN
1	E	226	VAL
1	E	234	ILE
1	E	246	TYR
1	E	248	LYS
1	E	265	LYS
1	E	266	ILE
1	E	273	ARG
1	E	275	ARG
1	E	286	VAL
1	E	293	ILE
1	E	301	VAL
1	E	315	VAL
1	E	325	ASP

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Mol	Chain	Res	Type
1	E	327	GLN
1	E	343	ARG
1	E	359	PHE
1	E	376	ARG
1	E	384	LEU
1	E	387	GLN
1	E	389	LEU
1	E	405	LEU
1	E	421	ASP
1	E	422	THR
1	E	430	VAL
1	E	432	PHE
1	E	433	ASP
1	E	438	LEU
1	E	444	LEU
1	E	507	LEU
1	E	513	ARG
1	E	518	THR
1	E	529	GLN
1	E	541	LYS
1	E	546	THR
1	E	555	GLN
1	E	592	TRP
1	E	593	LEU
1	E	597	GLN
1	F	14	ARG
1	F	15	PHE
1	F	24	GLU
1	F	30	LYS
1	F	31	ASN
1	F	33	LEU
1	F	37	ARG
1	F	42	ASP
1	F	43	ASP
1	F	45	LEU
1	F	47	GLN
1	F	56	GLN
1	F	61	ARG
1	F	79	LEU
1	F	118	GLN
1	F	123	VAL
1	F	127	ARG

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Mol	Chain	Res	Type
1	F	133	GLU
1	F	135	GLN
1	F	144	ILE
1	F	157	ILE
1	F	158	TRP
1	F	161	ASN
1	F	164	LEU
1	F	168	SER
1	F	174	THR
1	F	190	LYS
1	F	201	PHE
1	F	202	GLN
1	F	209	PHE
1	F	211	TRP
1	F	217	ILE
1	F	218	GLN
1	F	226	VAL
1	F	234	ILE
1	F	246	TYR
1	F	248	LYS
1	F	265	LYS
1	F	266	ILE
1	F	273	ARG
1	F	275	ARG
1	F	286	VAL
1	F	293	ILE
1	F	301	VAL
1	F	315	VAL
1	F	325	ASP
1	F	327	GLN
1	F	343	ARG
1	F	359	PHE
1	F	376	ARG
1	F	384	LEU
1	F	387	GLN
1	F	389	LEU
1	F	405	LEU
1	F	421	ASP
1	F	422	THR
1	F	430	VAL
1	F	432	PHE
1	F	433	ASP

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Mol	Chain	Res	Type
1	F	438	LEU
1	F	444	LEU
1	F	507	LEU
1	F	513	ARG
1	F	518	THR
1	F	529	GLN
1	F	541	LYS
1	F	546	THR
1	F	555	GLN
1	F	592	TRP
1	F	593	LEU
1	F	597	GLN
1	G	14	ARG
1	G	15	PHE
1	G	24	GLU
1	G	30	LYS
1	G	31	ASN
1	G	33	LEU
1	G	37	ARG
1	G	42	ASP
1	G	43	ASP
1	G	45	LEU
1	G	47	GLN
1	G	56	GLN
1	G	61	ARG
1	G	79	LEU
1	G	118	GLN
1	G	123	VAL
1	G	127	ARG
1	G	133	GLU
1	G	135	GLN
1	G	144	ILE
1	G	157	ILE
1	G	158	TRP
1	G	161	ASN
1	G	164	LEU
1	G	168	SER
1	G	174	THR
1	G	190	LYS
1	G	201	PHE
1	G	202	GLN
1	G	209	PHE

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Mol	Chain	Res	Type
1	G	211	TRP
1	G	217	ILE
1	G	218	GLN
1	G	226	VAL
1	G	234	ILE
1	G	246	TYR
1	G	248	LYS
1	G	265	LYS
1	G	266	ILE
1	G	273	ARG
1	G	275	ARG
1	G	286	VAL
1	G	293	ILE
1	G	301	VAL
1	G	315	VAL
1	G	325	ASP
1	G	327	GLN
1	G	343	ARG
1	G	359	PHE
1	G	376	ARG
1	G	384	LEU
1	G	387	GLN
1	G	389	LEU
1	G	405	LEU
1	G	421	ASP
1	G	422	THR
1	G	430	VAL
1	G	432	PHE
1	G	433	ASP
1	G	438	LEU
1	G	444	LEU
1	G	507	LEU
1	G	513	ARG
1	G	518	THR
1	G	529	GLN
1	G	541	LYS
1	G	546	THR
1	G	555	GLN
1	G	592	TRP
1	G	593	LEU
1	G	597	GLN
1	H	14	ARG

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Mol	Chain	Res	Type
1	H	15	PHE
1	H	24	GLU
1	H	30	LYS
1	H	31	ASN
1	H	33	LEU
1	H	37	ARG
1	H	42	ASP
1	H	43	ASP
1	H	45	LEU
1	H	47	GLN
1	H	56	GLN
1	H	61	ARG
1	H	79	LEU
1	H	118	GLN
1	H	123	VAL
1	H	127	ARG
1	H	133	GLU
1	H	135	GLN
1	H	144	ILE
1	H	157	ILE
1	H	158	TRP
1	H	161	ASN
1	H	164	LEU
1	H	168	SER
1	H	174	THR
1	H	190	LYS
1	H	201	PHE
1	H	202	GLN
1	H	209	PHE
1	H	211	TRP
1	H	217	ILE
1	H	218	GLN
1	H	226	VAL
1	H	234	ILE
1	H	246	TYR
1	H	248	LYS
1	H	265	LYS
1	H	266	ILE
1	H	273	ARG
1	H	275	ARG
1	H	286	VAL
1	H	293	ILE

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Mol	Chain	Res	Type
1	H	301	VAL
1	H	315	VAL
1	H	325	ASP
1	H	327	GLN
1	H	343	ARG
1	H	359	PHE
1	H	376	ARG
1	H	384	LEU
1	H	387	GLN
1	H	389	LEU
1	H	405	LEU
1	H	421	ASP
1	H	422	THR
1	H	430	VAL
1	H	432	PHE
1	H	433	ASP
1	H	438	LEU
1	H	444	LEU
1	H	507	LEU
1	H	513	ARG
1	H	518	THR
1	H	529	GLN
1	H	541	LYS
1	H	546	THR
1	H	555	GLN
1	H	592	TRP
1	H	593	LEU
1	H	597	GLN
1	I	14	ARG
1	I	15	PHE
1	I	24	GLU
1	I	30	LYS
1	I	31	ASN
1	I	33	LEU
1	I	37	ARG
1	I	42	ASP
1	I	43	ASP
1	I	45	LEU
1	I	47	GLN
1	I	56	GLN
1	I	61	ARG
1	I	79	LEU

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Mol	Chain	Res	Type
1	I	118	GLN
1	I	123	VAL
1	I	127	ARG
1	I	133	GLU
1	I	135	GLN
1	I	144	ILE
1	I	157	ILE
1	I	158	TRP
1	I	161	ASN
1	I	164	LEU
1	I	168	SER
1	I	174	THR
1	I	190	LYS
1	I	201	PHE
1	I	202	GLN
1	I	209	PHE
1	I	211	TRP
1	I	217	ILE
1	I	218	GLN
1	I	226	VAL
1	I	234	ILE
1	I	246	TYR
1	I	248	LYS
1	I	265	LYS
1	I	266	ILE
1	I	273	ARG
1	I	275	ARG
1	I	286	VAL
1	I	293	ILE
1	I	301	VAL
1	I	315	VAL
1	I	325	ASP
1	I	327	GLN
1	I	343	ARG
1	I	359	PHE
1	I	376	ARG
1	I	384	LEU
1	I	387	GLN
1	I	389	LEU
1	I	405	LEU
1	I	421	ASP
1	I	422	THR

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Mol	Chain	Res	Type
1	I	430	VAL
1	I	432	PHE
1	I	433	ASP
1	I	438	LEU
1	I	444	LEU
1	I	507	LEU
1	I	513	ARG
1	I	518	THR
1	I	529	GLN
1	I	541	LYS
1	I	546	THR
1	I	555	GLN
1	I	592	TRP
1	I	593	LEU
1	I	597	GLN
1	J	14	ARG
1	J	15	PHE
1	J	24	GLU
1	J	30	LYS
1	J	31	ASN
1	J	33	LEU
1	J	37	ARG
1	J	42	ASP
1	J	43	ASP
1	J	45	LEU
1	J	47	GLN
1	J	56	GLN
1	J	61	ARG
1	J	79	LEU
1	J	118	GLN
1	J	123	VAL
1	J	127	ARG
1	J	133	GLU
1	J	135	GLN
1	J	144	ILE
1	J	157	ILE
1	J	158	TRP
1	J	161	ASN
1	J	164	LEU
1	J	168	SER
1	J	174	THR
1	J	190	LYS

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Mol	Chain	Res	Type
1	J	201	PHE
1	J	202	GLN
1	J	209	PHE
1	J	211	TRP
1	J	217	ILE
1	J	218	GLN
1	J	226	VAL
1	J	234	ILE
1	J	246	TYR
1	J	248	LYS
1	J	265	LYS
1	J	266	ILE
1	J	273	ARG
1	J	275	ARG
1	J	286	VAL
1	J	293	ILE
1	J	301	VAL
1	J	315	VAL
1	J	325	ASP
1	J	327	GLN
1	J	343	ARG
1	J	359	PHE
1	J	376	ARG
1	J	384	LEU
1	J	387	GLN
1	J	389	LEU
1	J	405	LEU
1	J	421	ASP
1	J	422	THR
1	J	430	VAL
1	J	432	PHE
1	J	433	ASP
1	J	438	LEU
1	J	444	LEU
1	J	507	LEU
1	J	513	ARG
1	J	518	THR
1	J	529	GLN
1	J	541	LYS
1	J	546	THR
1	J	555	GLN
1	J	592	TRP

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Mol	Chain	Res	Type
1	J	593	LEU
1	J	597	GLN
1	K	14	ARG
1	K	15	PHE
1	K	24	GLU
1	K	30	LYS
1	K	31	ASN
1	K	33	LEU
1	K	37	ARG
1	K	42	ASP
1	K	43	ASP
1	K	45	LEU
1	K	47	GLN
1	K	56	GLN
1	K	61	ARG
1	K	79	LEU
1	K	118	GLN
1	K	123	VAL
1	K	127	ARG
1	K	133	GLU
1	K	135	GLN
1	K	144	ILE
1	K	157	ILE
1	K	158	TRP
1	K	161	ASN
1	K	164	LEU
1	K	168	SER
1	K	174	THR
1	K	190	LYS
1	K	201	PHE
1	K	202	GLN
1	K	209	PHE
1	K	211	TRP
1	K	217	ILE
1	K	218	GLN
1	K	226	VAL
1	K	234	ILE
1	K	246	TYR
1	K	248	LYS
1	K	265	LYS
1	K	266	ILE
1	K	273	ARG

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Mol	Chain	Res	Type
1	K	275	ARG
1	K	286	VAL
1	K	293	ILE
1	K	301	VAL
1	K	315	VAL
1	K	325	ASP
1	K	327	GLN
1	K	343	ARG
1	K	359	PHE
1	K	376	ARG
1	K	384	LEU
1	K	387	GLN
1	K	389	LEU
1	K	405	LEU
1	K	421	ASP
1	K	422	THR
1	K	430	VAL
1	K	432	PHE
1	K	433	ASP
1	K	438	LEU
1	K	444	LEU
1	K	507	LEU
1	K	513	ARG
1	K	518	THR
1	K	529	GLN
1	K	541	LYS
1	K	546	THR
1	K	555	GLN
1	K	592	TRP
1	K	593	LEU
1	K	597	GLN
1	L	14	ARG
1	L	15	PHE
1	L	24	GLU
1	L	30	LYS
1	L	31	ASN
1	L	33	LEU
1	L	37	ARG
1	L	42	ASP
1	L	43	ASP
1	L	45	LEU
1	L	47	GLN

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Mol	Chain	Res	Type
1	L	56	GLN
1	L	61	ARG
1	L	79	LEU
1	L	118	GLN
1	L	123	VAL
1	L	127	ARG
1	L	133	GLU
1	L	135	GLN
1	L	144	ILE
1	L	157	ILE
1	L	158	TRP
1	L	161	ASN
1	L	164	LEU
1	L	168	SER
1	L	174	THR
1	L	190	LYS
1	L	201	PHE
1	L	202	GLN
1	L	209	PHE
1	L	211	TRP
1	L	217	ILE
1	L	218	GLN
1	L	226	VAL
1	L	234	ILE
1	L	246	TYR
1	L	248	LYS
1	L	265	LYS
1	L	266	ILE
1	L	273	ARG
1	L	275	ARG
1	L	286	VAL
1	L	293	ILE
1	L	301	VAL
1	L	315	VAL
1	L	325	ASP
1	L	327	GLN
1	L	343	ARG
1	L	359	PHE
1	L	376	ARG
1	L	384	LEU
1	L	387	GLN
1	L	389	LEU

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Mol	Chain	Res	Type
1	L	405	LEU
1	L	421	ASP
1	L	422	THR
1	L	430	VAL
1	L	432	PHE
1	L	433	ASP
1	L	438	LEU
1	L	444	LEU
1	L	507	LEU
1	L	513	ARG
1	L	518	THR
1	L	529	GLN
1	L	541	LYS
1	L	546	THR
1	L	555	GLN
1	L	592	TRP
1	L	593	LEU
1	L	597	GLN
2	Y	26	LEU
2	Y	42	MET
2	Y	48	ASP
2	Y	49	LEU
2	Y	53	MET
2	Y	78	GLU
2	Y	80	ASP
2	Y	90	SER
2	Y	96	LEU
2	Y	139	SER
2	Y	140	ARG
2	Y	145	SER
2	Y	147	ASN
2	Z	26	LEU
2	Z	42	MET
2	Z	48	ASP
2	Z	49	LEU
2	Z	53	MET
2	Z	78	GLU
2	Z	80	ASP
2	Z	90	SER
2	Z	96	LEU
2	Z	139	SER
2	Z	140	ARG

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Mol	Chain	Res	Type
2	Z	145	SER
2	Z	147	ASN
2	a	26	LEU
2	a	42	MET
2	a	48	ASP
2	a	49	LEU
2	a	53	MET
2	a	78	GLU
2	a	80	ASP
2	a	90	SER
2	a	96	LEU
2	a	113	ILE
2	a	139	SER
2	a	140	ARG
2	a	145	SER
2	a	147	ASN
2	b	26	LEU
2	b	42	MET
2	b	48	ASP
2	b	49	LEU
2	b	53	MET
2	b	78	GLU
2	b	80	ASP
2	b	90	SER
2	b	96	LEU
2	b	113	ILE
2	b	139	SER
2	b	140	ARG
2	b	145	SER
2	b	147	ASN
2	c	26	LEU
2	c	42	MET
2	c	48	ASP
2	c	49	LEU
2	c	53	MET
2	c	78	GLU
2	c	80	ASP
2	c	90	SER
2	c	96	LEU
2	c	139	SER
2	c	140	ARG
2	c	145	SER

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Mol	Chain	Res	Type
2	c	147	ASN
2	d	26	LEU
2	d	42	MET
2	d	48	ASP
2	d	49	LEU
2	d	53	MET
2	d	78	GLU
2	d	80	ASP
2	d	90	SER
2	d	96	LEU
2	d	139	SER
2	d	140	ARG
2	d	145	SER
2	d	147	ASN
2	e	26	LEU
2	e	42	MET
2	e	48	ASP
2	e	49	LEU
2	e	53	MET
2	e	78	GLU
2	e	80	ASP
2	e	90	SER
2	e	96	LEU
2	e	139	SER
2	e	140	ARG
2	e	145	SER
2	e	147	ASN
2	f	26	LEU
2	f	42	MET
2	f	48	ASP
2	f	49	LEU
2	f	53	MET
2	f	78	GLU
2	f	80	ASP
2	f	90	SER
2	f	96	LEU
2	f	113	ILE
2	f	139	SER
2	f	140	ARG
2	f	145	SER
2	f	147	ASN
2	g	26	LEU

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Mol	Chain	Res	Type
2	g	42	MET
2	g	48	ASP
2	g	49	LEU
2	g	53	MET
2	g	78	GLU
2	g	80	ASP
2	g	90	SER
2	g	96	LEU
2	g	113	ILE
2	g	139	SER
2	g	140	ARG
2	g	145	SER
2	g	147	ASN
2	h	26	LEU
2	h	42	MET
2	h	48	ASP
2	h	49	LEU
2	h	53	MET
2	h	78	GLU
2	h	80	ASP
2	h	90	SER
2	h	96	LEU
2	h	139	SER
2	h	140	ARG
2	h	145	SER
2	h	147	ASN
2	i	26	LEU
2	i	42	MET
2	i	48	ASP
2	i	49	LEU
2	i	53	MET
2	i	78	GLU
2	i	80	ASP
2	i	90	SER
2	i	96	LEU
2	i	139	SER
2	i	140	ARG
2	i	145	SER
2	i	147	ASN
2	j	26	LEU
2	j	42	MET
2	j	48	ASP

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Mol	Chain	Res	Type
2	j	49	LEU
2	j	53	MET
2	j	78	GLU
2	j	80	ASP
2	j	90	SER
2	j	96	LEU
2	j	113	ILE
2	j	139	SER
2	j	140	ARG
2	j	145	SER
2	j	147	ASN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (319) such sidechains are listed below:

Mol	Chain	Res	Type
1	M	31	ASN
1	M	40	GLN
1	M	508	ASN
1	M	575	GLN
1	N	31	ASN
1	N	142	GLN
1	N	508	ASN
1	N	575	GLN
1	O	31	ASN
1	O	40	GLN
1	O	135	GLN
1	O	142	GLN
1	O	450	GLN
1	O	575	GLN
1	P	31	ASN
1	P	40	GLN
1	P	575	GLN
1	Q	31	ASN
1	Q	40	GLN
1	Q	508	ASN
1	Q	575	GLN
1	R	31	ASN
1	R	508	ASN
1	R	575	GLN
1	S	31	ASN
1	S	40	GLN
1	S	135	GLN

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Mol	Chain	Res	Type
1	S	508	ASN
1	S	575	GLN
1	T	40	GLN
1	T	450	GLN
1	T	508	ASN
1	T	575	GLN
1	U	31	ASN
1	U	40	GLN
1	U	135	GLN
1	U	142	GLN
1	U	450	GLN
1	U	508	ASN
1	U	575	GLN
1	V	31	ASN
1	V	40	GLN
1	V	508	ASN
1	V	575	GLN
1	W	31	ASN
1	W	40	GLN
1	W	508	ASN
1	W	575	GLN
1	X	31	ASN
1	X	40	GLN
1	X	142	GLN
1	X	508	ASN
1	X	575	GLN
1	A	31	ASN
1	A	56	GLN
1	A	73	GLN
1	A	112	ASN
1	A	118	GLN
1	A	135	GLN
1	A	161	ASN
1	A	177	HIS
1	A	182	ASN
1	A	202	GLN
1	A	214	GLN
1	A	218	GLN
1	A	236	GLN
1	A	291	GLN
1	A	297	HIS
1	A	327	GLN

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Mol	Chain	Res	Type
1	A	337	ASN
1	A	439	ASN
1	A	529	GLN
1	A	530	GLN
1	A	555	GLN
1	A	597	GLN
1	B	31	ASN
1	B	56	GLN
1	B	73	GLN
1	B	112	ASN
1	B	118	GLN
1	B	135	GLN
1	B	161	ASN
1	B	177	HIS
1	B	182	ASN
1	B	202	GLN
1	B	214	GLN
1	B	218	GLN
1	B	236	GLN
1	B	291	GLN
1	B	297	HIS
1	B	337	ASN
1	B	439	ASN
1	B	529	GLN
1	B	530	GLN
1	B	555	GLN
1	B	597	GLN
1	C	31	ASN
1	C	56	GLN
1	C	73	GLN
1	C	112	ASN
1	C	118	GLN
1	C	135	GLN
1	C	161	ASN
1	C	177	HIS
1	C	182	ASN
1	C	202	GLN
1	C	214	GLN
1	C	218	GLN
1	C	236	GLN
1	C	291	GLN
1	C	297	HIS

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Mol	Chain	Res	Type
1	C	337	ASN
1	C	439	ASN
1	C	529	GLN
1	C	530	GLN
1	C	555	GLN
1	C	597	GLN
1	D	31	ASN
1	D	56	GLN
1	D	73	GLN
1	D	112	ASN
1	D	118	GLN
1	D	135	GLN
1	D	161	ASN
1	D	177	HIS
1	D	182	ASN
1	D	202	GLN
1	D	214	GLN
1	D	218	GLN
1	D	236	GLN
1	D	291	GLN
1	D	297	HIS
1	D	337	ASN
1	D	439	ASN
1	D	529	GLN
1	D	530	GLN
1	D	555	GLN
1	D	597	GLN
1	E	31	ASN
1	E	56	GLN
1	E	73	GLN
1	E	112	ASN
1	E	118	GLN
1	E	135	GLN
1	E	161	ASN
1	E	177	HIS
1	E	182	ASN
1	E	202	GLN
1	E	214	GLN
1	E	218	GLN
1	E	236	GLN
1	E	291	GLN
1	E	297	HIS

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Mol	Chain	Res	Type
1	E	337	ASN
1	E	439	ASN
1	E	529	GLN
1	E	530	GLN
1	E	555	GLN
1	E	597	GLN
1	F	31	ASN
1	F	56	GLN
1	F	73	GLN
1	F	112	ASN
1	F	118	GLN
1	F	135	GLN
1	F	161	ASN
1	F	177	HIS
1	F	182	ASN
1	F	202	GLN
1	F	214	GLN
1	F	218	GLN
1	F	236	GLN
1	F	291	GLN
1	F	297	HIS
1	F	327	GLN
1	F	337	ASN
1	F	439	ASN
1	F	529	GLN
1	F	530	GLN
1	F	555	GLN
1	F	597	GLN
1	G	31	ASN
1	G	73	GLN
1	G	112	ASN
1	G	118	GLN
1	G	135	GLN
1	G	161	ASN
1	G	177	HIS
1	G	182	ASN
1	G	202	GLN
1	G	214	GLN
1	G	218	GLN
1	G	236	GLN
1	G	291	GLN
1	G	297	HIS

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Mol	Chain	Res	Type
1	G	337	ASN
1	G	439	ASN
1	G	529	GLN
1	G	530	GLN
1	G	555	GLN
1	G	597	GLN
1	H	31	ASN
1	H	73	GLN
1	H	112	ASN
1	H	118	GLN
1	H	135	GLN
1	H	161	ASN
1	H	177	HIS
1	H	182	ASN
1	H	202	GLN
1	H	214	GLN
1	H	218	GLN
1	H	236	GLN
1	H	291	GLN
1	H	297	HIS
1	H	337	ASN
1	H	439	ASN
1	H	529	GLN
1	H	530	GLN
1	H	555	GLN
1	H	597	GLN
1	I	31	ASN
1	I	56	GLN
1	I	73	GLN
1	I	112	ASN
1	I	118	GLN
1	I	135	GLN
1	I	161	ASN
1	I	177	HIS
1	I	182	ASN
1	I	202	GLN
1	I	214	GLN
1	I	218	GLN
1	I	236	GLN
1	I	291	GLN
1	I	297	HIS
1	I	337	ASN

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Mol	Chain	Res	Type
1	I	439	ASN
1	I	529	GLN
1	I	530	GLN
1	I	555	GLN
1	I	597	GLN
1	J	31	ASN
1	J	73	GLN
1	J	112	ASN
1	J	118	GLN
1	J	135	GLN
1	J	161	ASN
1	J	177	HIS
1	J	182	ASN
1	J	202	GLN
1	J	214	GLN
1	J	218	GLN
1	J	236	GLN
1	J	291	GLN
1	J	297	HIS
1	J	337	ASN
1	J	439	ASN
1	J	529	GLN
1	J	530	GLN
1	J	555	GLN
1	J	597	GLN
1	K	31	ASN
1	K	56	GLN
1	K	73	GLN
1	K	112	ASN
1	K	118	GLN
1	K	135	GLN
1	K	161	ASN
1	K	177	HIS
1	K	182	ASN
1	K	202	GLN
1	K	214	GLN
1	K	218	GLN
1	K	236	GLN
1	K	291	GLN
1	K	297	HIS
1	K	327	GLN
1	K	337	ASN

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Mol	Chain	Res	Type
1	K	439	ASN
1	K	529	GLN
1	K	530	GLN
1	K	555	GLN
1	K	597	GLN
1	L	31	ASN
1	L	56	GLN
1	L	73	GLN
1	L	112	ASN
1	L	118	GLN
1	L	135	GLN
1	L	161	ASN
1	L	177	HIS
1	L	182	ASN
1	L	202	GLN
1	L	214	GLN
1	L	218	GLN
1	L	236	GLN
1	L	291	GLN
1	L	297	HIS
1	L	337	ASN
1	L	439	ASN
1	L	529	GLN
1	L	530	GLN
1	L	555	GLN
1	L	597	GLN
2	Y	94	HIS
2	Z	94	HIS
2	a	94	HIS
2	b	94	HIS
2	c	40	GLN
2	c	94	HIS
2	d	40	GLN
2	d	94	HIS
2	e	94	HIS
2	f	94	HIS
2	g	94	HIS
2	h	94	HIS
2	i	94	HIS
2	j	94	HIS

5.3.3 RNA ⓘ

There are no RNA chains 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.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	569/602 (94%)	1.32	111 (19%) 2 1	22, 84, 245, 379	0
1	B	569/602 (94%)	1.32	116 (20%) 1 1	23, 84, 245, 379	0
1	C	569/602 (94%)	1.36	113 (19%) 2 1	26, 83, 245, 379	0
1	D	569/602 (94%)	1.33	111 (19%) 2 1	25, 84, 245, 379	0
1	E	569/602 (94%)	1.22	94 (16%) 2 1	25, 84, 245, 379	0
1	F	569/602 (94%)	1.22	99 (17%) 2 1	25, 84, 245, 379	0
1	G	569/602 (94%)	1.31	122 (21%) 1 1	30, 84, 245, 379	0
1	H	569/602 (94%)	1.39	115 (20%) 2 1	26, 86, 245, 379	0
1	I	569/602 (94%)	1.35	116 (20%) 1 1	31, 88, 245, 379	0
1	J	569/602 (94%)	1.44	119 (20%) 1 1	33, 96, 245, 379	0
1	K	569/602 (94%)	1.46	147 (25%) 1 1	26, 88, 245, 379	0
1	L	569/602 (94%)	1.42	121 (21%) 1 1	24, 87, 245, 379	0
1	M	569/602 (94%)	1.13	87 (15%) 3 2	15, 69, 205, 327	0
1	N	569/602 (94%)	1.05	73 (12%) 4 2	18, 69, 204, 327	0
1	O	569/602 (94%)	0.98	68 (11%) 5 2	15, 68, 205, 326	0
1	P	569/602 (94%)	1.03	90 (15%) 3 1	15, 69, 205, 327	0
1	Q	569/602 (94%)	1.02	76 (13%) 4 2	15, 69, 206, 326	0
1	R	569/602 (94%)	1.11	83 (14%) 3 2	17, 69, 205, 327	0
1	S	569/602 (94%)	1.07	90 (15%) 3 1	19, 68, 206, 326	0
1	T	569/602 (94%)	1.15	104 (18%) 2 1	15, 69, 205, 326	0
1	U	569/602 (94%)	1.24	117 (20%) 1 1	17, 69, 205, 327	0
1	V	569/602 (94%)	1.09	96 (16%) 2 1	18, 70, 204, 327	0
1	W	569/602 (94%)	1.06	79 (13%) 4 2	17, 69, 205, 326	0
1	X	569/602 (94%)	1.12	94 (16%) 2 1	14, 69, 205, 326	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
2	Y	146/166 (87%)	1.55	39 (26%)	1	1	38, 75, 221, 304	0
2	Z	146/166 (87%)	1.55	31 (21%)	1	1	37, 73, 222, 304	0
2	a	146/166 (87%)	1.52	39 (26%)	1	1	37, 77, 221, 304	0
2	b	146/166 (87%)	1.89	53 (36%)	1	0	39, 72, 221, 304	0
2	c	146/166 (87%)	1.17	23 (15%)	3	1	39, 72, 222, 305	0
2	d	146/166 (87%)	1.29	25 (17%)	2	1	35, 72, 222, 304	0
2	e	146/166 (87%)	1.45	34 (23%)	1	1	37, 73, 220, 304	0
2	f	146/166 (87%)	1.81	53 (36%)	1	0	39, 74, 222, 304	0
2	g	146/166 (87%)	1.84	45 (30%)	1	1	44, 75, 221, 304	0
2	h	146/166 (87%)	1.69	47 (32%)	1	1	38, 75, 221, 305	0
2	i	146/166 (87%)	1.58	44 (30%)	1	1	40, 75, 221, 304	0
2	j	146/166 (87%)	1.94	50 (34%)	1	0	36, 75, 222, 305	0
2	k	145/166 (87%)	1.07	21 (14%)	3	2	25, 57, 204, 314	0
2	l	145/166 (87%)	1.12	21 (14%)	3	2	28, 56, 204, 314	0
2	m	145/166 (87%)	1.56	33 (22%)	1	1	30, 59, 203, 314	0
2	n	145/166 (87%)	1.11	16 (11%)	6	2	23, 55, 204, 314	0
2	o	145/166 (87%)	1.12	19 (13%)	4	2	26, 57, 204, 314	0
2	p	145/166 (87%)	1.28	30 (20%)	1	1	27, 57, 204, 314	0
2	q	145/166 (87%)	1.06	17 (11%)	5	2	29, 58, 204, 314	0
2	r	145/166 (87%)	1.06	22 (15%)	3	2	26, 57, 205, 314	0
2	s	145/166 (87%)	1.34	31 (21%)	1	1	30, 58, 204, 314	0
2	t	145/166 (87%)	1.40	32 (22%)	1	1	31, 58, 204, 314	0
2	u	145/166 (87%)	1.10	25 (17%)	2	1	30, 58, 204, 314	0
2	v	145/166 (87%)	0.77	10 (6%)	17	4	29, 57, 204, 314	0
All	All	17148/18432 (93%)	1.25	3201 (18%)	2	1	14, 76, 227, 379	0

All (3201) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	N	493	MSE	23.4
1	D	240	THR	18.0
2	s	150	PRO	17.5
1	H	493	MSE	16.3
1	K	493	MSE	16.3

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Mol	Chain	Res	Type	RSRZ
2	Z	152	LEU	16.0
2	g	152	LEU	15.9
1	C	493	MSE	15.8
1	F	240	THR	15.5
2	h	152	LEU	15.0
2	Z	151	ASN	14.3
1	R	493	MSE	13.9
1	D	493	MSE	13.8
1	J	493	MSE	13.5
2	k	143	LEU	13.1
2	m	143	LEU	12.8
1	C	495	GLU	12.5
2	m	142	ASN	12.2
2	o	143	LEU	11.6
2	g	150	PRO	11.4
2	n	143	LEU	11.4
2	g	151	ASN	11.3
1	W	240	THR	11.3
1	N	602	GLY	11.3
2	j	152	LEU	11.2
2	t	149	PHE	11.2
1	I	179	MSE	11.1
2	j	154	GLU	11.0
1	E	601	GLN	10.8
2	b	158	PHE	10.8
1	Q	564	GLY	10.2
1	V	601	GLN	10.1
2	b	157	TYR	10.0
2	Y	150	PRO	10.0
2	m	141	PRO	10.0
2	e	14	THR	9.9
1	P	242	GLU	9.9
1	L	211	TRP	9.8
1	G	495	GLU	9.8
1	I	495	GLU	9.8
1	C	260	ASP	9.8
1	Q	493	MSE	9.8
1	M	602	GLY	9.8
1	D	601	GLN	9.7
2	j	153	ASN	9.7
1	V	240	THR	9.7
1	M	601	GLN	9.6

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Mol	Chain	Res	Type	RSRZ
2	p	144	ASN	9.4
1	M	493	MSE	9.3
2	Z	150	PRO	9.2
2	i	157	TYR	9.1
2	t	150	PRO	9.0
2	q	28	VAL	9.0
2	Y	151	ASN	9.0
1	B	242	GLU	8.9
1	K	210	PRO	8.9
2	g	153	ASN	8.8
1	B	597	GLN	8.8
1	U	240	THR	8.8
1	F	567	MSE	8.7
1	B	213	THR	8.7
1	R	579	MSE	8.6
1	N	240	THR	8.5
2	b	35	THR	8.5
2	l	143	LEU	8.5
2	k	141	PRO	8.4
2	m	144	ASN	8.4
2	m	28	VAL	8.4
2	o	150	PRO	8.4
1	V	586	THR	8.4
1	X	493	MSE	8.4
1	K	568	MSE	8.3
2	f	152	LEU	8.3
2	b	152	LEU	8.2
1	F	423	GLU	8.2
1	S	564	GLY	8.2
2	b	159	PRO	8.2
1	X	461	GLY	8.2
1	O	424	ALA	8.1
1	C	494	ALA	8.1
1	L	210	PRO	8.0
1	W	242	GLU	8.0
2	l	142	ASN	8.0
2	t	148	TYR	7.8
1	D	579	MSE	7.8
1	A	210	PRO	7.8
2	f	37	VAL	7.8
1	R	463	ILE	7.8
1	R	527	MSE	7.8

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Mol	Chain	Res	Type	RSRZ
2	b	151	ASN	7.8
1	X	213	THR	7.8
1	T	211	TRP	7.7
2	f	38	GLU	7.7
2	n	150	PRO	7.7
1	N	601	GLN	7.7
1	R	214	GLN	7.6
1	F	424	ALA	7.6
1	L	564	GLY	7.6
1	J	130	THR	7.5
2	n	149	PHE	7.5
1	V	527	MSE	7.5
1	F	495	GLU	7.5
1	H	496	VAL	7.4
1	N	283	CYS	7.4
1	J	269	ARG	7.3
2	n	142	ASN	7.3
1	O	579	MSE	7.3
1	Q	242	GLU	7.3
1	G	602	GLY	7.3
1	A	457	MSE	7.2
2	f	153	ASN	7.2
2	u	143	LEU	7.2
1	L	242	GLU	7.2
1	M	424	ALA	7.2
1	H	208	VAL	7.1
1	D	242	GLU	7.1
1	S	579	MSE	7.1
1	T	210	PRO	7.1
2	e	159	PRO	7.1
1	I	211	TRP	7.1
1	D	598	GLN	7.1
2	l	141	PRO	7.1
1	F	212	LEU	7.0
1	D	602	GLY	7.0
1	N	494	ALA	7.0
1	P	493	MSE	7.0
1	B	215	ASP	7.0
2	t	28	VAL	7.0
1	E	204	PRO	6.9
1	H	601	GLN	6.9
2	d	38	GLU	6.9

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Mol	Chain	Res	Type	RSRZ
2	q	141	PRO	6.8
1	V	424	ALA	6.8
1	I	424	ALA	6.8
1	L	463	ILE	6.8
1	B	567	MSE	6.8
2	n	148	TYR	6.8
1	D	600	LYS	6.8
1	A	462	GLU	6.7
1	Q	568	MSE	6.7
1	D	241	GLY	6.7
2	Y	152	LEU	6.7
1	T	564	GLY	6.7
1	M	179	MSE	6.7
1	I	579	MSE	6.7
2	q	145	GLU	6.7
2	b	14	THR	6.7
2	r	141	PRO	6.6
2	p	142	ASN	6.6
1	L	240	THR	6.6
1	L	563	LYS	6.6
1	E	424	ALA	6.6
1	E	334	MSE	6.6
1	N	8	LEU	6.5
2	d	150	PRO	6.5
2	q	142	ASN	6.5
1	B	417	THR	6.5
2	p	145	GLU	6.5
1	H	585	GLU	6.5
1	P	253	ASP	6.5
1	L	568	MSE	6.5
1	H	197	ASP	6.5
1	J	253	ASP	6.4
1	A	246	TYR	6.4
2	r	150	PRO	6.4
1	G	8	LEU	6.4
1	H	495	GLU	6.4
1	B	209	PHE	6.3
2	p	28	VAL	6.3
1	E	214	GLN	6.3
1	Q	579	MSE	6.3
1	G	267	ALA	6.3
1	L	212	LEU	6.3

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Mol	Chain	Res	Type	RSRZ
1	A	209	PHE	6.3
2	s	149	PHE	6.3
2	i	154	GLU	6.2
1	X	209	PHE	6.2
1	U	71	MSE	6.2
2	b	156	HIS	6.2
2	h	159	PRO	6.2
1	V	567	MSE	6.2
2	h	44	ASP	6.2
1	J	230	GLU	6.2
1	O	208	VAL	6.2
2	e	28	VAL	6.1
2	m	8	ASP	6.1
1	M	567	MSE	6.1
1	N	267	ALA	6.1
1	L	550	GLN	6.1
2	a	36	ASP	6.1
1	J	252	LYS	6.0
1	D	239	VAL	6.0
1	L	579	MSE	6.0
1	E	602	GLY	6.0
1	D	334	MSE	6.0
1	J	424	ALA	6.0
2	c	159	PRO	6.0
2	e	48	ASP	6.0
2	s	89	CYS	6.0
2	t	89	CYS	6.0
2	g	37	VAL	5.9
1	M	421	ASP	5.9
1	H	386	THR	5.9
1	G	404	MSE	5.9
1	F	211	TRP	5.9
1	W	424	ALA	5.9
1	B	457	MSE	5.9
1	G	211	TRP	5.9
1	H	179	MSE	5.9
1	J	185	GLU	5.9
1	T	240	THR	5.9
1	C	384	LEU	5.8
1	E	565	VAL	5.9
1	H	499	LEU	5.8
1	P	568	MSE	5.8

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Mol	Chain	Res	Type	RSRZ
1	X	527	MSE	5.8
1	C	425	VAL	5.8
2	d	37	VAL	5.8
2	b	48	ASP	5.8
1	I	253	ASP	5.8
1	N	495	GLU	5.8
1	Q	228	LYS	5.8
1	E	589	GLU	5.8
1	H	424	ALA	5.8
1	K	386	THR	5.8
1	T	599	ALA	5.8
2	t	64	GLU	5.8
1	V	234	ILE	5.8
1	U	214	GLN	5.8
1	V	493	MSE	5.8
2	e	15	LYS	5.8
1	C	92	ASP	5.8
1	Q	495	GLU	5.8
1	U	462	GLU	5.8
1	C	385	PRO	5.8
1	G	177	HIS	5.7
1	V	585	GLU	5.7
1	F	601	GLN	5.7
1	M	207	TRP	5.7
1	H	232	ALA	5.7
1	H	591	GLN	5.7
2	a	74	ASN	5.7
1	H	209	PHE	5.7
1	V	602	GLY	5.7
1	A	214	GLN	5.7
1	Q	463	ILE	5.7
1	V	423	GLU	5.7
1	C	214	GLN	5.7
1	G	567	MSE	5.7
2	u	9	LEU	5.7
1	C	550	GLN	5.7
1	S	500	ALA	5.6
1	E	600	LYS	5.6
1	S	527	MSE	5.6
1	R	564	GLY	5.6
1	C	595	GLU	5.6
1	J	462	GLU	5.6

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Mol	Chain	Res	Type	RSRZ
2	Y	154	GLU	5.6
1	C	462	GLU	5.6
1	J	238	PRO	5.6
1	T	563	LYS	5.6
1	H	567	MSE	5.6
1	R	602	GLY	5.6
1	M	579	MSE	5.6
1	X	457	MSE	5.6
2	a	73	GLU	5.5
1	D	208	VAL	5.5
1	U	216	THR	5.5
1	N	242	GLU	5.5
1	K	367	ASP	5.5
1	N	567	MSE	5.5
2	m	7	GLY	5.5
1	U	213	THR	5.5
1	Q	563	LYS	5.5
1	S	565	VAL	5.5
1	Q	8	LEU	5.5
1	M	95	MSE	5.5
1	R	457	MSE	5.5
1	S	95	MSE	5.5
1	A	602	GLY	5.5
1	H	579	MSE	5.5
1	X	240	THR	5.5
1	H	268	GLU	5.5
1	R	213	THR	5.5
1	B	214	GLN	5.5
1	D	599	ALA	5.5
2	t	65	ASN	5.5
1	R	255	ILE	5.4
1	I	591	GLN	5.4
1	R	7	ARG	5.4
1	J	583	LYS	5.4
1	R	8	LEU	5.4
1	J	504	LYS	5.4
1	M	240	THR	5.4
1	N	579	MSE	5.4
1	R	568	MSE	5.4
1	J	84	ASP	5.4
1	K	97	MSE	5.4
1	T	423	GLU	5.4

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Mol	Chain	Res	Type	RSRZ
1	H	49	THR	5.4
1	C	424	ALA	5.3
1	I	584	PRO	5.3
1	H	602	GLY	5.3
1	X	495	GLU	5.3
1	H	422	THR	5.3
1	L	194	ASP	5.3
1	T	601	GLN	5.3
2	j	159	PRO	5.3
1	J	460	ASP	5.3
1	R	462	GLU	5.3
2	Z	34	LEU	5.3
1	Q	255	ILE	5.3
2	p	143	LEU	5.3
2	e	24	ARG	5.3
1	L	208	VAL	5.3
1	S	600	LYS	5.3
1	K	211	TRP	5.3
1	X	239	VAL	5.3
2	l	144	ASN	5.2
1	K	548	GLU	5.2
1	G	217	ILE	5.2
2	a	75	PRO	5.2
1	I	95	MSE	5.2
2	n	141	PRO	5.2
1	U	417	THR	5.2
1	E	588	GLU	5.2
1	H	595	GLU	5.2
1	N	404	MSE	5.2
1	S	559	LEU	5.2
1	K	50	THR	5.2
1	B	493	MSE	5.2
1	L	527	MSE	5.2
2	s	7	GLY	5.2
2	r	148	TYR	5.2
2	a	154	GLU	5.2
1	U	386	THR	5.2
1	U	47	GLN	5.2
1	C	262	GLY	5.2
2	j	34	LEU	5.2
2	Y	143	THR	5.1
1	P	564	GLY	5.1

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Mol	Chain	Res	Type	RSRZ
1	X	597	GLN	5.1
1	A	205	ASN	5.1
1	K	240	THR	5.1
1	L	386	THR	5.1
1	T	506	VAL	5.1
1	H	212	LEU	5.1
1	T	238	PRO	5.1
1	S	424	ALA	5.1
1	T	97	MSE	5.1
2	v	142	ASN	5.1
1	F	595	GLU	5.1
2	t	142	ASN	5.1
1	W	243	PRO	5.1
2	b	98	CYS	5.1
1	L	188	ALA	5.0
1	P	240	THR	5.0
1	J	197	ASP	5.0
1	K	130	THR	5.0
1	H	202	GLN	5.0
1	X	462	GLU	5.0
2	Z	73	GLU	5.0
2	h	15	LYS	5.0
1	W	502	GLY	5.0
1	U	208	VAL	5.0
1	L	213	THR	5.0
1	U	597	GLN	5.0
1	L	567	MSE	5.0
2	d	77	ALA	5.0
1	B	566	GLU	5.0
1	Q	283	CYS	5.0
1	H	500	ALA	5.0
2	m	145	GLU	5.0
1	D	563	LYS	5.0
1	W	561	ASP	5.0
1	E	423	GLU	5.0
1	G	499	LEU	5.0
2	m	96	ALA	5.0
1	X	571	TYR	4.9
1	U	242	GLU	4.9
1	B	559	LEU	4.9
1	C	242	GLU	4.9
1	P	5	GLU	4.9

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Mol	Chain	Res	Type	RSRZ
1	S	501	THR	4.9
1	O	213	THR	4.9
1	D	259	ALA	4.9
1	I	84	ASP	4.9
1	V	211	TRP	4.9
1	H	7	ARG	4.9
1	L	173	CYS	4.9
1	K	494	ALA	4.9
2	g	31	ASP	4.9
1	A	211	TRP	4.9
1	S	563	LYS	4.9
1	V	497	VAL	4.9
1	U	493	MSE	4.9
1	W	527	MSE	4.9
2	a	158	PHE	4.9
1	I	207	TRP	4.9
1	M	232	ALA	4.9
1	R	386	THR	4.9
1	X	424	ALA	4.9
2	s	35	ASP	4.9
1	P	504	LYS	4.9
2	c	17	ASP	4.9
1	X	494	ALA	4.8
1	L	495	GLU	4.9
1	R	211	TRP	4.8
1	A	417	THR	4.8
1	C	538	LEU	4.8
2	Y	35	THR	4.8
1	B	71	MSE	4.8
1	X	211	TRP	4.8
1	T	602	GLY	4.8
2	o	147	HIS	4.8
1	Q	240	THR	4.8
1	E	566	GLU	4.8
1	G	420	VAL	4.8
1	R	95	MSE	4.8
1	A	267	ALA	4.8
2	Y	107	GLU	4.8
1	E	6	ASN	4.8
1	J	548	GLU	4.8
1	H	95	MSE	4.8
2	i	110	ALA	4.8

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Mol	Chain	Res	Type	RSRZ
2	j	42	MET	4.7
1	L	246	TYR	4.7
1	K	422	THR	4.7
1	A	404	MSE	4.7
2	r	142	ASN	4.7
1	K	230	GLU	4.7
1	T	565	VAL	4.7
2	u	150	PRO	4.7
1	A	559	LEU	4.7
2	Z	153	ASN	4.7
2	g	21	ALA	4.7
1	L	271	ILE	4.7
1	E	599	ALA	4.7
2	Z	15	LYS	4.7
1	H	8	LEU	4.7
2	h	153	ASN	4.7
1	W	493	MSE	4.7
1	W	387	GLN	4.7
1	H	198	ILE	4.7
1	A	386	THR	4.7
2	q	94	ASP	4.7
2	g	154	GLU	4.7
1	I	198	ILE	4.7
1	E	50	THR	4.7
1	G	563	LYS	4.7
1	G	586	THR	4.7
1	T	584	PRO	4.6
1	K	444	LEU	4.6
1	T	566	GLU	4.6
1	K	424	ALA	4.6
1	V	212	LEU	4.6
1	X	572	ALA	4.6
1	L	420	VAL	4.6
2	j	38	GLU	4.6
1	P	501	THR	4.6
1	L	540	GLY	4.6
2	d	39	PRO	4.6
1	H	563	LYS	4.6
1	L	602	GLY	4.6
2	j	71	ASP	4.6
1	I	553	LEU	4.6
2	a	107	GLU	4.6

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Mol	Chain	Res	Type	RSRZ
1	A	550	GLN	4.6
1	R	89	ASP	4.6
1	C	579	MSE	4.6
1	U	599	ALA	4.6
2	Y	34	LEU	4.6
1	A	213	THR	4.6
1	F	422	THR	4.6
2	g	36	ASP	4.6
1	G	186	ASP	4.6
2	t	66	PRO	4.6
1	L	230	GLU	4.6
1	N	207	TRP	4.5
1	M	500	ALA	4.5
1	U	595	GLU	4.5
1	F	561	ASP	4.5
1	J	270	GLN	4.5
2	o	142	ASN	4.5
1	J	240	THR	4.5
1	A	338	ALA	4.5
2	r	28	VAL	4.5
1	J	6	ASN	4.5
2	a	47	ASP	4.5
1	T	208	VAL	4.5
1	B	574	LYS	4.5
1	K	17	ALA	4.5
1	C	549	TYR	4.5
1	K	253	ASP	4.5
1	U	600	LYS	4.5
1	P	550	GLN	4.5
1	B	211	TRP	4.5
1	L	576	LEU	4.5
2	v	141	PRO	4.5
1	V	496	VAL	4.5
1	E	240	THR	4.5
1	I	268	GLU	4.5
1	G	214	GLN	4.5
1	L	493	MSE	4.5
1	R	576	LEU	4.4
2	j	58	GLN	4.4
1	K	592	TRP	4.4
1	B	385	PRO	4.4
2	l	8	ASP	4.4

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Mol	Chain	Res	Type	RSRZ
1	V	404	MSE	4.4
1	W	334	MSE	4.4
1	C	5	GLU	4.4
1	H	425	VAL	4.4
2	Z	154	GLU	4.4
2	g	78	GLU	4.4
1	P	424	ALA	4.4
1	F	500	ALA	4.4
1	K	252	LYS	4.4
1	W	404	MSE	4.4
1	L	457	MSE	4.4
1	G	519	ASP	4.4
2	s	143	LEU	4.4
2	j	44	ASP	4.4
1	L	77	ASP	4.4
1	F	504	LYS	4.4
1	U	48	TYR	4.4
1	E	242	GLU	4.4
1	S	459	ARG	4.4
1	J	5	GLU	4.4
1	V	192	ASP	4.4
1	D	25	ALA	4.4
1	T	502	GLY	4.4
1	F	589	GLU	4.4
1	C	240	THR	4.4
1	U	254	VAL	4.4
1	I	421	ASP	4.4
1	G	210	PRO	4.4
1	W	241	GLY	4.4
1	D	209	PHE	4.4
1	F	387	GLN	4.4
1	G	283	CYS	4.4
1	D	527	MSE	4.3
1	I	252	LYS	4.3
1	F	542	THR	4.3
2	a	28	VAL	4.3
2	u	142	ASN	4.3
1	F	457	MSE	4.3
1	C	259	ALA	4.3
1	L	417	THR	4.3
1	B	191	TYR	4.3
1	C	566	GLU	4.3

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Mol	Chain	Res	Type	RSRZ
1	R	208	VAL	4.3
2	Y	98	CYS	4.3
2	k	9	LEU	4.3
1	A	212	LEU	4.3
1	D	424	ALA	4.3
1	G	332	MSE	4.3
1	I	232	ALA	4.3
1	K	564	GLY	4.3
2	h	48	ASP	4.3
1	T	424	ALA	4.3
1	H	423	GLU	4.3
2	e	104	TYR	4.3
1	O	253	ASP	4.3
1	H	283	CYS	4.3
1	E	58	ASP	4.3
1	K	495	GLU	4.3
2	i	24	ARG	4.3
1	U	563	LYS	4.3
1	C	496	VAL	4.3
2	j	142	PRO	4.3
1	U	525	GLN	4.3
2	f	77	ALA	4.3
1	O	212	LEU	4.3
1	A	8	LEU	4.3
1	D	97	MSE	4.3
1	B	573	ASN	4.3
1	T	505	GLN	4.2
2	a	159	PRO	4.2
2	e	44	ASP	4.2
1	J	362	MSE	4.2
2	h	14	THR	4.2
1	D	32	ASP	4.2
1	L	189	GLU	4.2
1	I	386	THR	4.2
2	c	35	THR	4.2
1	U	601	GLN	4.2
1	L	575	GLN	4.2
1	O	207	TRP	4.2
2	d	73	GLU	4.2
1	J	211	TRP	4.2
2	q	143	LEU	4.2
2	u	149	PHE	4.2

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Mol	Chain	Res	Type	RSRZ
1	Q	420	VAL	4.2
1	V	503	GLU	4.2
1	H	396	GLU	4.2
1	J	451	ASP	4.2
1	K	437	GLN	4.2
1	W	192	ASP	4.2
1	O	568	MSE	4.2
1	K	76	ILE	4.2
1	M	495	GLU	4.2
1	B	462	GLU	4.2
1	R	573	ASN	4.2
1	H	440	MSE	4.2
1	K	515	GLU	4.2
1	C	559	LEU	4.2
1	L	183	GLY	4.2
1	M	242	GLU	4.2
1	X	563	LYS	4.2
1	B	580	GLY	4.2
2	l	34	GLN	4.2
1	A	576	LEU	4.2
1	J	533	ALA	4.2
1	G	595	GLU	4.2
2	f	45	ALA	4.1
1	A	95	MSE	4.1
2	u	66	PRO	4.1
1	M	211	TRP	4.1
1	B	248	LYS	4.1
1	D	495	GLU	4.1
1	F	334	MSE	4.1
1	H	404	MSE	4.1
1	K	216	THR	4.1
1	R	210	PRO	4.1
2	k	150	PRO	4.1
2	h	151	ASN	4.1
1	T	422	THR	4.1
1	Q	173	CYS	4.1
2	Y	78	GLU	4.1
2	f	72	ASP	4.1
1	I	581	VAL	4.1
1	J	143	VAL	4.1
2	i	158	PHE	4.1
1	J	97	MSE	4.1

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Mol	Chain	Res	Type	RSRZ
2	k	142	ASN	4.1
1	A	216	THR	4.1
1	E	51	LEU	4.1
1	S	566	GLU	4.1
1	V	165	MSE	4.1
1	D	170	ALA	4.1
1	D	214	GLN	4.1
1	T	334	MSE	4.1
1	N	264	ILE	4.1
1	R	205	ASN	4.1
1	B	8	LEU	4.1
1	L	285	ALA	4.1
1	W	585	GLU	4.1
1	N	386	THR	4.1
1	O	240	THR	4.1
1	I	50	THR	4.1
2	f	73	GLU	4.1
1	R	592	TRP	4.1
1	J	421	ASP	4.1
1	F	332	MSE	4.1
1	M	210	PRO	4.1
1	K	545	GLY	4.1
1	W	496	VAL	4.1
2	e	72	ASP	4.1
1	J	445	GLU	4.1
1	K	334	MSE	4.1
2	c	14	THR	4.1
2	h	78	GLU	4.1
1	M	231	THR	4.1
1	L	25	ALA	4.0
1	F	496	VAL	4.0
1	H	242	GLU	4.0
2	i	35	THR	4.0
1	H	549	TYR	4.0
1	J	239	VAL	4.0
1	B	404	MSE	4.0
1	M	576	LEU	4.0
1	R	189	GLU	4.0
1	F	234	ILE	4.0
1	K	510	ILE	4.0
2	g	114	ALA	4.0
1	U	461	GLY	4.0

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Mol	Chain	Res	Type	RSRZ
1	F	213	THR	4.0
2	p	29	GLU	4.0
2	b	104	TYR	4.0
1	T	600	LYS	4.0
1	P	585	GLU	4.0
1	W	589	GLU	4.0
1	A	597	GLN	4.0
2	l	6	LYS	4.0
2	b	28	VAL	4.0
1	M	496	VAL	4.0
1	K	420	VAL	4.0
1	R	550	GLN	4.0
1	T	586	THR	4.0
1	C	426	ASN	4.0
1	J	579	MSE	4.0
2	p	69	GLU	4.0
2	i	71	ASP	4.0
1	U	211	TRP	4.0
1	F	578	GLN	4.0
1	C	457	MSE	4.0
2	Y	71	ASP	4.0
1	V	205	ASN	4.0
1	U	92	ASP	4.0
1	F	499	LEU	4.0
1	A	97	MSE	4.0
1	I	568	MSE	4.0
1	D	243	PRO	4.0
1	J	50	THR	4.0
1	T	499	LEU	4.0
2	v	143	LEU	4.0
2	h	34	LEU	4.0
1	B	47	GLN	4.0
1	P	505	GLN	4.0
1	Q	334	MSE	4.0
1	Q	386	THR	4.0
1	D	565	VAL	4.0
1	F	501	THR	4.0
1	F	581	VAL	3.9
1	S	423	GLU	3.9
1	H	240	THR	3.9
2	s	39	ASP	3.9
2	j	155	TRP	3.9

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Mol	Chain	Res	Type	RSRZ
1	D	262	GLY	3.9
1	I	499	LEU	3.9
2	f	36	ASP	3.9
1	P	214	GLN	3.9
1	A	420	VAL	3.9
1	F	602	GLY	3.9
1	B	504	LYS	3.9
1	I	585	GLU	3.9
1	P	97	MSE	3.9
2	b	74	ASN	3.9
1	O	556	TYR	3.9
1	A	103	ARG	3.9
1	S	385	PRO	3.9
1	U	579	MSE	3.9
1	K	228	LYS	3.9
1	O	503	GLU	3.9
1	A	575	GLN	3.9
1	I	559	LEU	3.9
1	I	578	GLN	3.9
1	T	457	MSE	3.9
2	u	55	ILE	3.9
2	Y	36	ASP	3.9
2	i	43	GLN	3.9
2	j	98	CYS	3.9
1	V	182	ASN	3.9
1	A	186	ASP	3.9
1	F	192	ASP	3.9
2	f	85	ARG	3.9
1	J	208	VAL	3.9
1	Q	424	ALA	3.9
1	T	213	THR	3.9
1	C	578	GLN	3.9
1	A	183	GLY	3.9
1	G	543	PRO	3.9
1	D	404	MSE	3.9
1	K	539	LEU	3.9
1	Q	600	LYS	3.9
1	U	248	LYS	3.9
1	X	7	ARG	3.9
1	J	153	CYS	3.9
2	r	134	THR	3.9
1	K	550	GLN	3.9

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Mol	Chain	Res	Type	RSRZ
2	i	52	MET	3.9
1	M	583	LYS	3.9
2	h	35	THR	3.9
1	F	527	MSE	3.9
1	K	165	MSE	3.9
1	G	547	PRO	3.9
2	m	6	LYS	3.9
2	b	15	LYS	3.9
2	j	37	VAL	3.9
1	G	579	MSE	3.9
2	f	78	GLU	3.9
1	L	516	CYS	3.9
2	c	74	ASN	3.9
1	E	257	ASP	3.8
1	I	240	THR	3.8
1	U	5	GLU	3.8
1	X	95	MSE	3.8
2	k	144	ASN	3.8
2	p	147	HIS	3.8
1	K	14	ARG	3.8
1	U	559	LEU	3.8
2	Z	35	THR	3.8
1	X	210	PRO	3.8
2	t	145	GLU	3.8
1	C	421	ASP	3.8
1	G	584	PRO	3.8
1	L	513	ARG	3.8
1	H	71	MSE	3.8
2	r	143	LEU	3.8
1	H	264	ILE	3.8
1	J	437	GLN	3.8
2	i	88	ALA	3.8
1	L	595	GLU	3.8
1	V	239	VAL	3.8
1	M	517	TYR	3.8
1	M	543	PRO	3.8
1	M	587	PRO	3.8
1	N	216	THR	3.8
1	E	190	LYS	3.8
2	d	151	ASN	3.8
2	h	88	ALA	3.8
1	M	563	LYS	3.8

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Mol	Chain	Res	Type	RSRZ
1	W	423	GLU	3.8
1	T	259	ALA	3.8
1	Q	25	ALA	3.8
1	C	596	ALA	3.8
1	G	527	MSE	3.8
1	U	11	ILE	3.8
1	K	198	ILE	3.8
1	J	428	GLY	3.8
1	T	494	ALA	3.8
1	F	571	TYR	3.8
1	G	498	ASP	3.8
1	D	561	ASP	3.8
2	j	67	TYR	3.8
1	P	252	LYS	3.8
1	H	133	GLU	3.8
2	o	144	ASN	3.8
1	M	197	ASP	3.8
1	O	7	ARG	3.8
1	F	590	GLN	3.8
2	r	8	ASP	3.8
2	u	35	ASP	3.8
1	Q	527	MSE	3.8
1	E	563	LYS	3.8
1	A	387	GLN	3.8
1	F	388	PRO	3.8
1	G	578	GLN	3.8
1	L	423	GLU	3.8
1	T	598	GLN	3.8
1	R	97	MSE	3.7
1	F	404	MSE	3.7
1	M	581	VAL	3.7
1	O	423	GLU	3.7
2	h	150	PRO	3.7
1	M	457	MSE	3.7
1	S	425	VAL	3.7
1	U	260	ASP	3.7
1	J	10	SER	3.7
1	J	584	PRO	3.7
1	D	496	VAL	3.7
2	f	44	ASP	3.7
2	d	14	THR	3.7
1	L	419	GLY	3.7

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Mol	Chain	Res	Type	RSRZ
1	F	52	GLN	3.7
1	K	387	GLN	3.7
1	T	582	LYS	3.7
1	T	493	MSE	3.7
1	T	585	GLU	3.7
1	U	385	PRO	3.7
1	X	547	PRO	3.7
2	i	28	VAL	3.7
1	J	387	GLN	3.7
1	G	421	ASP	3.7
1	I	7	ARG	3.7
1	G	601	GLN	3.7
1	B	150	HIS	3.7
1	C	564	GLY	3.7
1	C	576	LEU	3.7
1	O	6	ASN	3.7
1	X	103	ARG	3.7
1	F	32	ASP	3.7
2	i	78	GLU	3.7
1	W	239	VAL	3.7
2	o	35	ASP	3.7
2	h	101	ALA	3.7
1	B	190	LYS	3.7
1	D	558	THR	3.7
1	J	138	THR	3.7
1	S	240	THR	3.7
1	A	461	GLY	3.7
2	j	100	ILE	3.7
1	J	505	GLN	3.7
1	G	205	ASN	3.7
1	S	601	GLN	3.7
1	V	387	GLN	3.7
1	B	570	ASP	3.7
1	R	565	VAL	3.7
1	I	197	ASP	3.7
1	X	97	MSE	3.7
1	H	421	ASP	3.7
1	K	197	ASP	3.7
1	M	451	ASP	3.7
1	N	7	ARG	3.7
1	R	188	ALA	3.7
1	W	544	GLN	3.7

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Mol	Chain	Res	Type	RSRZ
1	S	386	THR	3.7
1	V	8	LEU	3.7
1	Q	253	ASP	3.7
1	P	235	TYR	3.6
1	X	499	LEU	3.7
1	A	58	ASP	3.6
1	H	581	VAL	3.6
2	b	95	ASN	3.6
1	S	204	PRO	3.6
1	O	179	MSE	3.6
1	R	561	ASP	3.6
2	m	76	ARG	3.6
2	p	35	ASP	3.6
1	K	583	LYS	3.6
1	A	388	PRO	3.6
1	L	15	PHE	3.6
2	f	75	PRO	3.6
1	L	206	ASP	3.6
1	O	8	LEU	3.6
1	N	422	THR	3.6
1	J	535	ILE	3.6
1	L	190	LYS	3.6
1	N	266	ILE	3.6
1	K	188	ALA	3.6
2	f	31	ASP	3.6
2	f	71	ASP	3.6
2	j	108	ALA	3.6
1	S	558	THR	3.6
1	N	420	VAL	3.6
1	B	591	GLN	3.6
1	D	459	ARG	3.6
1	V	215	ASP	3.6
1	A	493	MSE	3.6
1	F	494	ALA	3.6
1	G	216	THR	3.6
2	q	144	ASN	3.6
2	Y	153	ASN	3.6
1	U	570	ASP	3.6
1	P	463	ILE	3.6
1	C	361	HIS	3.6
1	T	209	PHE	3.6
1	T	590	GLN	3.6

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Mol	Chain	Res	Type	RSRZ
1	A	50	THR	3.6
1	I	422	THR	3.6
2	Y	16	GLY	3.6
2	g	159	PRO	3.6
2	j	33	THR	3.6
2	j	80	ASP	3.6
1	B	423	GLU	3.6
2	Z	103	ASP	3.6
2	j	78	GLU	3.6
1	V	71	MSE	3.6
2	g	73	GLU	3.6
1	U	215	ASP	3.6
1	C	177	HIS	3.6
1	D	564	GLY	3.6
1	V	558	THR	3.6
1	C	213	THR	3.6
1	J	517	TYR	3.6
2	q	27	ASP	3.6
2	n	64	GLU	3.6
2	Z	14	THR	3.6
2	b	73	GLU	3.6
2	h	37	VAL	3.6
1	H	576	LEU	3.6
1	I	500	ALA	3.6
1	Q	214	GLN	3.6
1	X	570	ASP	3.6
1	B	383	ASP	3.6
1	J	210	PRO	3.6
1	X	8	LEU	3.6
2	k	10	VAL	3.6
1	J	423	GLU	3.6
1	V	581	VAL	3.6
1	K	249	ARG	3.5
1	U	204	PRO	3.5
1	A	334	MSE	3.5
1	L	334	MSE	3.5
1	F	565	VAL	3.5
1	G	49	THR	3.5
1	H	199	PRO	3.5
1	F	493	MSE	3.5
1	K	202	GLN	3.5
1	E	220	ALA	3.5

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Mol	Chain	Res	Type	RSRZ
2	o	149	PHE	3.5
1	I	131	ASP	3.5
1	M	268	GLU	3.5
1	U	426	ASN	3.5
1	U	506	VAL	3.5
1	R	207	TRP	3.5
1	S	213	THR	3.5
1	T	460	ASP	3.5
1	V	216	THR	3.5
1	E	499	LEU	3.5
1	J	506	VAL	3.5
2	Y	142	PRO	3.5
1	P	283	CYS	3.5
1	B	317	GLU	3.5
1	S	587	PRO	3.5
1	K	297	HIS	3.5
2	s	41	GLU	3.5
1	C	248	LYS	3.5
1	F	549	TYR	3.5
1	K	362	MSE	3.5
1	K	516	CYS	3.5
2	Y	99	ARG	3.5
1	Q	213	THR	3.5
1	R	595	GLU	3.5
1	L	494	ALA	3.5
1	V	214	GLN	3.5
2	d	134	ARG	3.5
1	S	533	ALA	3.5
1	C	357	ALA	3.5
1	G	456	ALA	3.5
1	R	239	VAL	3.5
1	L	205	ASN	3.5
2	Z	108	ALA	3.5
1	Q	459	ARG	3.5
1	R	246	TYR	3.5
2	s	16	LYS	3.5
1	B	260	ASP	3.5
1	T	170	ALA	3.5
1	B	572	ALA	3.5
2	Y	158	PHE	3.5
1	L	515	GLU	3.5
1	O	84	ASP	3.5

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Mol	Chain	Res	Type	RSRZ
1	L	89	ASP	3.5
2	t	143	LEU	3.5
2	a	34	LEU	3.5
1	P	6	ASN	3.5
1	T	579	MSE	3.5
1	F	568	MSE	3.5
2	m	69	GLU	3.5
1	H	584	PRO	3.5
1	C	91	ALA	3.5
1	B	208	VAL	3.5
1	E	501	THR	3.5
1	F	528	LYS	3.5
1	H	582	LYS	3.5
1	E	534	GLU	3.5
1	E	558	THR	3.5
1	N	563	LYS	3.5
1	G	71	MSE	3.5
1	M	566	GLU	3.5
1	K	15	PHE	3.5
1	B	249	ARG	3.5
1	K	185	GLU	3.5
1	K	16	ASP	3.5
1	P	254	VAL	3.5
2	h	53	MET	3.4
1	D	566	GLU	3.4
2	v	150	PRO	3.4
2	Y	73	GLU	3.4
1	N	232	ALA	3.4
1	W	259	ALA	3.4
1	I	543	PRO	3.4
1	J	568	MSE	3.4
2	f	80	ASP	3.4
1	Q	210	PRO	3.4
1	Q	515	GLU	3.4
1	T	284	THR	3.4
1	X	498	ASP	3.4
2	i	36	ASP	3.4
1	C	563	LYS	3.4
1	V	367	ASP	3.4
1	E	564	GLY	3.4
1	G	240	THR	3.4
1	M	387	GLN	3.4

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Mol	Chain	Res	Type	RSRZ
1	D	590	GLN	3.4
1	K	246	TYR	3.4
1	D	58	ASP	3.4
2	c	36	ASP	3.4
1	A	525	GLN	3.4
1	C	577	ILE	3.4
1	K	601	GLN	3.4
2	h	16	GLY	3.4
1	B	568	MSE	3.4
1	P	503	GLU	3.4
2	i	73	GLU	3.4
1	F	92	ASP	3.4
1	G	426	ASN	3.4
1	H	532	ARG	3.4
2	g	125	LYS	3.4
1	X	579	MSE	3.4
1	O	553	LEU	3.4
1	W	420	VAL	3.4
2	a	106	LEU	3.4
1	C	209	PHE	3.4
1	E	598	GLN	3.4
1	V	456	ALA	3.4
1	G	86	ALA	3.4
1	I	114	ALA	3.4
1	R	264	ILE	3.4
1	U	70	GLU	3.4
1	B	550	GLN	3.4
1	R	516	CYS	3.4
1	K	235	TYR	3.4
1	E	211	TRP	3.4
2	Y	38	GLU	3.4
2	b	75	PRO	3.4
1	P	583	LYS	3.4
1	U	568	MSE	3.4
1	A	527	MSE	3.4
2	o	145	GLU	3.4
2	u	64	GLU	3.4
1	K	596	ALA	3.4
1	W	421	ASP	3.4
1	W	582	LYS	3.4
2	n	28	VAL	3.4
1	S	550	GLN	3.4

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Mol	Chain	Res	Type	RSRZ
1	V	505	GLN	3.4
1	J	422	THR	3.4
1	B	240	THR	3.4
1	L	597	GLN	3.4
1	T	570	ASP	3.4
1	K	187	PHE	3.4
2	f	52	MET	3.4
2	h	77	ALA	3.4
1	W	388	PRO	3.4
1	D	457	MSE	3.4
1	I	524	PHE	3.4
1	Q	503	GLU	3.4
1	J	246	TYR	3.4
1	G	496	VAL	3.4
1	K	25	ALA	3.4
2	n	79	ALA	3.4
1	V	498	ASP	3.4
1	I	202	GLN	3.4
1	J	7	ARG	3.4
1	J	550	GLN	3.4
2	t	97	LEU	3.4
1	W	97	MSE	3.4
1	G	556	TYR	3.3
1	J	456	ALA	3.3
2	Z	157	TYR	3.3
1	S	242	GLU	3.3
1	F	204	PRO	3.3
1	K	595	GLU	3.3
2	f	17	ASP	3.3
1	W	234	ILE	3.3
1	R	212	LEU	3.3
1	K	208	VAL	3.3
1	A	6	ASN	3.3
1	A	409	THR	3.3
1	D	248	LYS	3.3
2	a	81	ASP	3.3
2	h	36	ASP	3.3
1	R	567	MSE	3.3
1	W	595	GLU	3.3
1	B	204	PRO	3.3
1	F	579	MSE	3.3
2	c	77	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
1	X	246	TYR	3.3
1	K	268	GLU	3.3
1	S	599	ALA	3.3
1	M	102	MSE	3.3
1	M	553	LEU	3.3
1	G	440	MSE	3.3
1	P	246	TYR	3.3
1	U	566	GLU	3.3
1	I	5	GLU	3.3
1	K	186	ASP	3.3
1	L	367	ASP	3.3
2	a	46	VAL	3.3
2	d	138	PRO	3.3
2	f	136	PRO	3.3
1	C	191	TYR	3.3
1	E	259	ALA	3.3
1	U	425	VAL	3.3
1	E	262	GLY	3.3
1	B	219	ILE	3.3
1	G	194	ASP	3.3
1	N	547	PRO	3.3
2	k	147	HIS	3.3
1	N	424	ALA	3.3
1	L	268	GLU	3.3
1	J	214	GLN	3.3
1	J	236	GLN	3.3
1	C	539	LEU	3.3
1	G	378	ASP	3.3
1	Q	252	LYS	3.3
1	S	548	GLU	3.3
1	A	24	GLU	3.3
2	m	29	GLU	3.3
2	r	149	PHE	3.3
1	N	177	HIS	3.3
1	G	28	GLU	3.3
1	L	17	ALA	3.3
1	E	260	ASP	3.3
1	L	255	ILE	3.3
1	M	98	TYR	3.3
2	i	50	GLU	3.3
1	C	598	GLN	3.3
1	M	49	THR	3.3

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Mol	Chain	Res	Type	RSRZ
2	p	91	ILE	3.3
1	J	602	GLY	3.3
1	M	209	PHE	3.3
2	b	24	ARG	3.3
2	i	16	GLY	3.3
1	D	548	GLU	3.3
1	D	595	GLU	3.3
1	N	202	GLN	3.3
1	D	575	GLN	3.3
1	E	561	ASP	3.3
1	K	24	GLU	3.3
1	K	552	LEU	3.3
2	r	62	ASP	3.3
1	B	424	ALA	3.3
2	h	33	THR	3.3
1	P	537	GLU	3.3
1	O	543	PRO	3.3
1	P	551	LEU	3.3
1	B	552	LEU	3.3
1	G	311	GLU	3.3
1	C	15	PHE	3.3
2	s	6	LYS	3.3
2	j	92	VAL	3.3
1	P	210	PRO	3.3
1	X	214	GLN	3.3
1	E	457	MSE	3.3
2	b	132	ALA	3.3
1	R	563	LYS	3.3
1	F	152	ALA	3.2
1	U	588	GLU	3.2
1	F	599	ALA	3.2
1	K	143	VAL	3.2
2	g	38	GLU	3.2
1	V	366	ASN	3.2
1	B	97	MSE	3.2
1	J	601	GLN	3.2
2	s	20	ALA	3.2
1	V	206	ASP	3.2
1	A	42	ASP	3.2
1	N	6	ASN	3.2
1	Q	211	TRP	3.2
1	I	173	CYS	3.2

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Mol	Chain	Res	Type	RSRZ
1	M	494	ALA	3.2
1	N	543	PRO	3.2
1	T	495	GLU	3.2
1	I	440	MSE	3.2
1	D	502	GLY	3.2
2	g	24	ARG	3.2
2	h	158	PHE	3.2
1	K	501	THR	3.2
2	l	64	GLU	3.2
1	I	576	LEU	3.2
2	j	64	ILE	3.2
1	S	260	ASP	3.2
1	W	586	THR	3.2
1	C	204	PRO	3.2
1	D	173	CYS	3.2
1	H	457	MSE	3.2
2	b	72	ASP	3.2
2	i	48	ASP	3.2
1	S	499	LEU	3.2
1	Q	570	ASP	3.2
1	T	244	VAL	3.2
2	e	37	VAL	3.2
1	H	387	GLN	3.2
1	I	600	LYS	3.2
1	M	404	MSE	3.2
1	T	212	LEU	3.2
1	G	580	GLY	3.2
1	P	444	LEU	3.2
1	W	598	GLN	3.2
1	C	249	ARG	3.2
1	N	421	ASP	3.2
1	B	587	PRO	3.2
1	I	237	ASP	3.2
2	a	52	MET	3.2
1	L	252	LYS	3.2
1	B	159	ASP	3.2
1	D	260	ASP	3.2
1	D	362	MSE	3.2
1	L	270	GLN	3.2
2	t	147	HIS	3.2
2	f	123	LEU	3.2
2	g	124	TYR	3.2

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Mol	Chain	Res	Type	RSRZ
1	S	259	ALA	3.2
1	E	199	PRO	3.2
1	P	230	GLU	3.2
1	I	242	GLU	3.2
1	K	255	ILE	3.2
1	B	196	ASP	3.2
1	Q	457	MSE	3.2
1	K	396	GLU	3.2
2	p	33	MET	3.2
1	T	58	ASP	3.2
1	F	186	ASP	3.2
1	I	451	ASP	3.2
2	v	31	GLN	3.2
2	t	94	ASP	3.2
1	S	572	ALA	3.2
1	G	506	VAL	3.2
1	P	84	ASP	3.2
1	H	87	ARG	3.2
1	R	597	GLN	3.2
1	U	587	PRO	3.2
1	O	211	TRP	3.2
1	H	556	TYR	3.2
1	W	501	THR	3.2
1	B	216	THR	3.2
2	l	145	GLU	3.2
2	b	44	ASP	3.2
1	Q	548	GLU	3.2
1	S	384	LEU	3.2
1	G	424	ALA	3.2
1	H	239	VAL	3.2
2	d	72	ASP	3.2
1	E	324	LYS	3.2
1	I	504	LYS	3.2
1	H	114	ALA	3.2
1	E	567	MSE	3.2
2	r	27	ASP	3.2
1	Q	205	ASN	3.2
1	V	494	ALA	3.2
1	I	357	ALA	3.2
2	e	35	THR	3.2
1	T	235	TYR	3.2
1	J	207	TRP	3.2

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Mol	Chain	Res	Type	RSRZ
2	b	50	GLU	3.1
1	Q	165	MSE	3.1
1	X	404	MSE	3.1
1	S	15	PHE	3.1
1	E	546	THR	3.1
1	M	202	GLN	3.1
1	A	574	LYS	3.1
1	I	556	TYR	3.1
2	g	52	MET	3.1
2	g	20	ARG	3.1
1	J	242	GLU	3.1
2	f	74	ASN	3.1
1	L	8	LEU	3.1
1	D	463	ILE	3.1
1	Q	494	ALA	3.1
1	V	600	LYS	3.1
1	H	541	LYS	3.1
1	U	263	PHE	3.1
1	H	253	ASP	3.1
1	W	590	GLN	3.1
1	C	313	LYS	3.1
1	V	27	ARG	3.1
1	M	84	ASP	3.1
1	T	49	THR	3.1
1	C	565	VAL	3.1
1	H	237	ASP	3.1
1	L	239	VAL	3.1
2	m	97	LEU	3.1
1	M	440	MSE	3.1
2	q	148	TYR	3.1
1	Q	17	ALA	3.1
1	B	241	GLY	3.1
1	C	594	VAL	3.1
2	Y	92	VAL	3.1
1	O	5	GLU	3.1
1	F	258	LEU	3.1
2	v	144	ASN	3.1
2	d	17	ASP	3.1
1	D	569	ARG	3.1
1	I	459	ARG	3.1
1	J	553	LEU	3.1
2	m	75	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
2	e	38	GLU	3.1
1	B	210	PRO	3.1
1	F	580	GLY	3.1
1	H	451	ASP	3.1
1	J	386	THR	3.1
1	L	445	GLU	3.1
1	C	575	GLN	3.1
1	B	92	ASP	3.1
1	U	585	GLU	3.1
1	D	537	GLU	3.1
1	K	283	CYS	3.1
2	n	145	GLU	3.1
2	f	35	THR	3.1
1	T	179	MSE	3.1
1	U	457	MSE	3.1
1	U	572	ALA	3.1
1	F	539	LEU	3.1
1	G	334	MSE	3.1
1	L	554	LEU	3.1
1	E	49	THR	3.1
1	E	538	LEU	3.1
2	h	21	ALA	3.1
1	X	6	ASN	3.1
1	E	205	ASN	3.1
1	H	6	ASN	3.1
1	K	423	GLU	3.1
1	A	208	VAL	3.1
1	P	527	MSE	3.1
1	C	508	ASN	3.1
1	J	108	LYS	3.1
1	M	239	VAL	3.1
1	V	459	ARG	3.1
1	D	578	GLN	3.1
1	H	137	PRO	3.1
2	r	63	ASP	3.1
2	f	159	PRO	3.1
1	N	71	MSE	3.1
1	P	95	MSE	3.1
1	F	71	MSE	3.1
2	b	49	LEU	3.1
2	f	104	TYR	3.1
1	B	588	GLU	3.1

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Mol	Chain	Res	Type	RSRZ
1	D	503	GLU	3.1
1	L	5	GLU	3.1
2	i	72	ASP	3.1
1	T	591	GLN	3.1
2	u	141	PRO	3.1
1	K	582	LYS	3.1
2	r	10	VAL	3.1
1	I	243	PRO	3.1
1	P	389	LEU	3.0
1	V	267	ALA	3.1
1	I	437	GLN	3.1
1	G	234	ILE	3.0
1	U	159	ASP	3.0
2	f	82	HIS	3.0
1	X	216	THR	3.0
1	I	558	THR	3.0
2	a	24	ARG	3.0
2	h	110	ALA	3.0
1	A	443	ASP	3.0
1	H	211	TRP	3.0
1	W	558	THR	3.0
1	K	445	GLU	3.0
1	H	33	LEU	3.0
1	H	510	ILE	3.0
1	X	141	ASN	3.0
1	M	48	TYR	3.0
1	F	419	GLY	3.0
1	F	530	GLN	3.0
1	J	263	PHE	3.0
1	K	448	VAL	3.0
1	O	584	PRO	3.0
1	T	204	PRO	3.0
1	N	211	TRP	3.0
1	W	458	ARG	3.0
1	B	41	TRP	3.0
2	g	49	LEU	3.0
2	j	73	GLU	3.0
1	M	582	LYS	3.0
1	Q	245	SER	3.0
1	O	558	THR	3.0
1	O	421	ASP	3.0
1	A	41	TRP	3.0

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Mol	Chain	Res	Type	RSRZ
1	I	501	THR	3.0
1	J	271	ILE	3.0
1	L	209	PHE	3.0
1	L	387	GLN	3.0
1	A	299	PRO	3.0
2	g	16	GLY	3.0
1	U	575	GLN	3.0
1	W	602	GLY	3.0
1	D	501	THR	3.0
1	I	561	ASP	3.0
1	N	576	LEU	3.0
1	X	576	LEU	3.0
1	B	28	GLU	3.0
1	U	501	THR	3.0
1	F	260	ASP	3.0
1	J	237	ASP	3.0
2	d	159	PRO	3.0
1	W	567	MSE	3.0
1	A	265	LYS	3.0
1	H	41	TRP	3.0
1	H	504	LYS	3.0
2	i	151	ASN	3.0
1	C	288	LYS	3.0
1	J	265	LYS	3.0
1	S	598	GLN	3.0
2	t	38	ASP	3.0
1	J	444	LEU	3.0
2	r	9	LEU	3.0
2	b	84	LEU	3.0
1	J	179	MSE	3.0
2	Z	62	GLY	3.0
1	L	460	ASP	3.0
2	l	63	ASP	3.0
2	r	147	HIS	3.0
2	a	55	GLU	3.0
2	a	35	THR	3.0
1	U	565	VAL	3.0
1	V	207	TRP	3.0
1	S	462	GLU	3.0
2	p	26	THR	3.0
2	e	53	MET	3.0
1	T	458	ARG	3.0

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Mol	Chain	Res	Type	RSRZ
1	Q	421	ASP	3.0
1	T	583	LYS	3.0
1	C	71	MSE	3.0
1	D	165	MSE	3.0
1	L	97	MSE	3.0
1	C	11	ILE	3.0
1	D	420	VAL	3.0
2	i	153	ASN	3.0
1	D	498	ASP	3.0
1	B	227	GLU	3.0
1	Q	75	PRO	3.0
1	U	580	GLY	3.0
1	G	114	ALA	3.0
1	A	206	ASP	3.0
1	P	422	THR	3.0
1	W	284	THR	3.0
1	B	70	GLU	3.0
1	F	588	GLU	3.0
1	W	26	ARG	3.0
1	P	534	GLU	3.0
1	I	537	GLU	3.0
1	K	75	PRO	3.0
1	Q	203	ASN	3.0
1	T	558	THR	3.0
1	V	502	GLY	3.0
1	G	587	PRO	2.9
1	C	459	ARG	2.9
1	C	601	GLN	2.9
2	h	98	CYS	2.9
1	E	35	PHE	2.9
1	T	589	GLU	2.9
1	J	95	MSE	2.9
2	b	69	PHE	2.9
2	f	27	GLY	2.9
1	B	594	VAL	2.9
1	J	494	ALA	2.9
1	D	423	GLU	2.9
2	h	23	LEU	2.9
1	D	585	GLU	2.9
1	F	242	GLU	2.9
1	K	368	ASP	2.9
1	K	451	ASP	2.9

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Mol	Chain	Res	Type	RSRZ
2	b	62	GLY	2.9
2	h	67	TYR	2.9
1	L	531	ASN	2.9
2	Y	159	PRO	2.9
1	U	317	GLU	2.9
2	u	28	VAL	2.9
2	f	121	GLU	2.9
1	M	386	THR	2.9
1	V	563	LYS	2.9
1	W	52	GLN	2.9
1	E	13	SER	2.9
1	S	92	ASP	2.9
1	J	312	ASP	2.9
2	u	123	ALA	2.9
1	W	5	GLU	2.9
1	O	557	PHE	2.9
2	n	6	LYS	2.9
2	p	134	THR	2.9
1	N	556	TYR	2.9
1	V	195	ALA	2.9
1	W	408	ALA	2.9
1	B	202	GLN	2.9
1	E	591	GLN	2.9
1	F	50	THR	2.9
1	E	395	PRO	2.9
1	A	339	ASP	2.9
1	I	269	ARG	2.9
1	C	41	TRP	2.9
1	G	387	GLN	2.9
1	W	12	LEU	2.9
1	W	258	LEU	2.9
1	B	361	HIS	2.9
2	Y	96	LEU	2.9
2	i	49	LEU	2.9
1	R	334	MSE	2.9
1	F	582	LYS	2.9
1	S	191	TYR	2.9
1	D	550	GLN	2.9
1	L	500	ALA	2.9
1	S	560	LEU	2.9
2	p	141	PRO	2.9
1	P	548	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
1	E	252	LYS	2.9
2	s	38	ASP	2.9
2	s	123	ALA	2.9
1	Q	444	LEU	2.9
2	k	125	ARG	2.9
2	u	56	THR	2.9
1	J	375	ASN	2.9
1	L	573	ASN	2.9
2	b	154	GLU	2.9
2	g	85	ARG	2.9
1	E	258	LEU	2.9
2	Y	37	VAL	2.9
1	P	386	THR	2.9
1	T	557	PHE	2.9
1	G	7	ARG	2.9
1	K	439	ASN	2.9
2	h	155	TRP	2.9
1	D	588	GLU	2.9
1	V	420	VAL	2.9
1	D	571	TYR	2.9
1	A	546	THR	2.9
1	B	32	ASP	2.9
1	D	421	ASP	2.9
2	o	92	ALA	2.9
2	u	24	THR	2.9
2	c	151	ASN	2.9
1	R	25	ALA	2.9
1	C	583	LYS	2.9
1	J	374	LEU	2.9
1	J	389	LEU	2.9
2	p	133	PRO	2.9
2	b	81	ASP	2.9
1	G	242	GLU	2.9
1	H	580	GLY	2.9
1	K	280	ILE	2.9
2	u	95	TYR	2.9
1	T	61	ARG	2.9
2	j	114	ALA	2.9
1	T	314	GLU	2.9
2	g	149	PHE	2.9
1	V	516	CYS	2.9
2	a	98	CYS	2.9

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Mol	Chain	Res	Type	RSRZ
2	g	126	GLN	2.9
1	P	26	ARG	2.9
1	R	37	ARG	2.9
2	f	16	GLY	2.9
1	W	579	MSE	2.9
2	t	20	ALA	2.9
2	t	96	ALA	2.9
1	P	243	PRO	2.9
1	C	219	ILE	2.9
1	D	422	THR	2.9
1	F	243	PRO	2.9
1	J	206	ASP	2.9
1	K	155	HIS	2.9
1	K	602	GLY	2.9
1	G	182	ASN	2.9
2	Z	61	LYS	2.9
2	f	125	LYS	2.9
1	T	420	VAL	2.8
1	D	535	ILE	2.8
1	J	243	PRO	2.8
1	K	577	ILE	2.8
1	C	386	THR	2.8
1	K	284	THR	2.8
1	D	380	ASN	2.8
1	J	49	THR	2.8
1	O	89	ASP	2.8
1	V	186	ASP	2.8
1	E	191	TYR	2.8
1	G	516	CYS	2.8
1	G	32	ASP	2.8
2	b	148	SER	2.8
1	M	8	LEU	2.8
1	G	266	ILE	2.8
1	A	573	ASN	2.8
1	G	379	GLU	2.8
1	P	183	GLY	2.8
1	D	562	GLY	2.8
1	K	540	GLY	2.8
1	M	388	PRO	2.8
1	D	210	PRO	2.8
1	W	534	GLU	2.8
1	E	5	GLU	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	236	GLN	2.8
1	E	504	LYS	2.8
1	G	233	PHE	2.8
1	K	459	ARG	2.8
1	T	554	LEU	2.8
1	B	353	PRO	2.8
1	M	5	GLU	2.8
2	r	64	GLU	2.8
1	F	562	GLY	2.8
1	K	600	LYS	2.8
1	U	458	ARG	2.8
1	B	48	TYR	2.8
1	H	217	ILE	2.8
1	B	554	LEU	2.8
2	l	29	GLU	2.8
2	Z	80	ASP	2.8
1	E	203	ASN	2.8
1	P	50	THR	2.8
1	X	98	TYR	2.8
1	L	458	ARG	2.8
1	X	460	ASP	2.8
1	D	494	ALA	2.8
2	g	101	ALA	2.8
1	F	600	LYS	2.8
1	F	497	VAL	2.8
1	I	6	ASN	2.8
1	K	421	ASP	2.8
2	s	144	ASN	2.8
1	E	97	MSE	2.8
1	M	506	VAL	2.8
1	U	243	PRO	2.8
1	X	208	VAL	2.8
1	R	245	SER	2.8
1	Q	76	ILE	2.8
1	T	305	GLY	2.8
1	E	550	GLN	2.8
1	T	220	ALA	2.8
1	B	243	PRO	2.8
1	K	436	ASN	2.8
1	K	546	THR	2.8
2	r	7	GLY	2.8
2	f	18	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
2	g	123	LEU	2.8
1	E	32	ASP	2.8
1	O	440	MSE	2.8
1	P	362	MSE	2.8
1	G	445	GLU	2.8
1	Q	212	LEU	2.8
1	K	450	GLN	2.8
1	N	496	VAL	2.8
1	K	242	GLU	2.8
1	L	229	LYS	2.8
1	P	387	GLN	2.8
1	P	459	ARG	2.8
1	R	339	ASP	2.8
1	V	210	PRO	2.8
1	V	213	THR	2.8
2	s	147	HIS	2.8
2	j	88	ALA	2.8
1	O	581	VAL	2.8
1	C	501	THR	2.8
1	K	389	LEU	2.8
2	b	34	LEU	2.8
2	j	31	ASP	2.8
1	A	547	PRO	2.8
1	G	29	ALA	2.8
2	h	142	PRO	2.8
1	N	234	ILE	2.8
1	V	203	ASN	2.8
1	X	255	ILE	2.8
1	D	60	VAL	2.8
1	J	187	PHE	2.8
1	C	434	THR	2.8
1	G	258	LEU	2.8
2	u	27	ASP	2.8
1	F	597	GLN	2.8
2	b	51	ALA	2.8
1	S	581	VAL	2.8
1	T	239	VAL	2.8
1	G	508	ASN	2.8
1	V	89	ASP	2.8
1	Q	601	GLN	2.8
1	K	271	ILE	2.8
1	J	235	TYR	2.8

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Mol	Chain	Res	Type	RSRZ
1	G	209	PHE	2.8
1	J	321	ARG	2.8
1	O	95	MSE	2.8
2	f	43	GLN	2.8
1	N	250	ASP	2.8
1	P	421	ASP	2.8
1	A	563	LYS	2.8
1	F	420	VAL	2.8
2	f	137	TYR	2.8
1	U	15	PHE	2.8
1	U	459	ARG	2.8
1	A	326	GLY	2.8
1	E	532	ARG	2.8
1	J	452	ASN	2.8
2	u	65	ASN	2.8
1	F	598	GLN	2.8
1	H	48	TYR	2.8
1	K	504	LYS	2.8
1	M	591	GLN	2.7
1	P	179	MSE	2.8
1	P	268	GLU	2.8
1	E	14	ARG	2.8
1	S	597	GLN	2.7
1	V	47	GLN	2.7
1	B	334	MSE	2.8
1	G	206	ASP	2.7
1	G	451	ASP	2.7
2	l	62	ASP	2.7
1	D	586	THR	2.7
1	G	342	ALA	2.7
1	I	246	TYR	2.7
1	W	133	GLU	2.7
1	D	274	ARG	2.7
1	L	274	ARG	2.7
1	R	575	GLN	2.7
1	V	590	GLN	2.7
2	Z	31	ASP	2.7
2	a	31	ASP	2.7
2	c	28	VAL	2.7
2	l	18	GLY	2.7
2	Z	74	ASN	2.7
2	b	61	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
1	R	494	ALA	2.7
1	V	25	ALA	2.7
2	a	45	ALA	2.7
1	R	420	VAL	2.7
1	F	503	GLU	2.7
2	g	47	ASP	2.7
1	M	586	THR	2.7
1	E	386	THR	2.7
2	m	19	VAL	2.7
2	j	101	ALA	2.7
1	R	547	PRO	2.7
1	I	462	GLU	2.7
2	m	73	HIS	2.7
1	W	211	TRP	2.7
2	l	16	LYS	2.7
1	U	79	LEU	2.7
1	G	507	LEU	2.7
2	Z	98	CYS	2.7
1	V	457	MSE	2.7
1	H	32	ASP	2.7
1	V	495	GLU	2.7
2	Z	82	HIS	2.7
1	O	270	GLN	2.7
2	Z	51	ALA	2.7
2	c	132	ALA	2.7
1	R	88	PRO	2.7
1	G	423	GLU	2.7
1	G	537	GLU	2.7
1	A	245	SER	2.7
1	I	574	LYS	2.7
1	K	496	VAL	2.7
1	L	546	THR	2.7
2	f	40	GLN	2.7
2	g	19	VAL	2.7
1	X	385	PRO	2.7
2	Y	144	GLY	2.7
1	K	173	CYS	2.7
1	Q	437	GLN	2.7
1	R	574	LYS	2.7
1	V	386	THR	2.7
1	L	344	THR	2.7
1	Q	540	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
1	T	461	GLY	2.7
1	U	241	GLY	2.7
1	F	203	ASN	2.7
2	j	91	ALA	2.7
1	S	93	VAL	2.7
1	H	98	TYR	2.7
2	h	92	VAL	2.7
1	M	595	GLU	2.7
1	K	20	THR	2.7
1	F	283	CYS	2.7
2	j	151	ASN	2.7
1	F	367	ASP	2.7
1	G	532	ARG	2.7
1	I	213	THR	2.7
2	j	124	TYR	2.7
1	H	519	ASP	2.7
2	e	50	GLU	2.7
1	G	524	PHE	2.7
2	Z	19	VAL	2.7
2	j	150	PRO	2.7
1	O	493	MSE	2.7
1	V	334	MSE	2.7
1	X	263	PHE	2.7
1	C	599	ALA	2.7
2	d	15	LYS	2.7
2	j	72	ASP	2.7
1	A	327	GLN	2.7
1	P	269	ARG	2.7
1	U	509	ASP	2.7
1	V	515	GLU	2.7
1	C	220	ALA	2.7
1	L	207	TRP	2.7
2	q	72	ASP	2.7
1	Q	387	GLN	2.7
1	P	579	MSE	2.7
1	S	493	MSE	2.7
1	B	288	LYS	2.7
1	H	528	LYS	2.7
1	I	212	LEU	2.7
2	c	104	TYR	2.7
1	Q	26	ARG	2.7
1	B	177	HIS	2.7

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Mol	Chain	Res	Type	RSRZ
1	G	47	GLN	2.7
1	H	509	ASP	2.7
2	u	44	MET	2.7
1	M	423	GLU	2.7
1	M	589	GLU	2.7
1	V	380	ASN	2.7
1	M	420	VAL	2.7
2	d	28	VAL	2.7
1	N	213	THR	2.7
1	S	571	TYR	2.7
1	J	536	LEU	2.7
2	Y	157	TYR	2.7
1	R	458	ARG	2.7
1	X	207	TRP	2.7
1	P	212	LEU	2.7
1	G	520	VAL	2.7
2	e	117	LYS	2.7
1	U	564	GLY	2.7
1	I	517	TYR	2.7
2	e	158	PHE	2.7
2	p	98	GLU	2.7
1	K	160	SER	2.7
1	O	504	LYS	2.7
2	f	84	LEU	2.7
1	T	65	ARG	2.7
1	C	32	ASP	2.7
1	E	206	ASP	2.7
1	H	153	CYS	2.7
1	I	206	ASP	2.7
2	m	71	ASP	2.7
1	M	238	PRO	2.7
1	S	414	GLU	2.7
2	a	44	ASP	2.7
1	V	233	PHE	2.7
1	L	26	ARG	2.7
1	A	564	GLY	2.7
1	M	230	GLU	2.6
1	C	587	PRO	2.6
1	D	506	VAL	2.6
1	G	366	ASN	2.6
1	Q	575	GLN	2.6
1	T	550	GLN	2.6

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Mol	Chain	Res	Type	RSRZ
1	L	7	ARG	2.6
1	L	248	LYS	2.6
2	a	152	LEU	2.6
2	f	15	LYS	2.6
1	P	451	ASP	2.6
2	f	28	VAL	2.6
2	j	48	ASP	2.6
1	N	595	GLU	2.6
1	E	569	ARG	2.6
1	T	426	ASN	2.6
1	T	553	LEU	2.6
1	W	193	LEU	2.6
1	W	248	LYS	2.6
1	I	209	PHE	2.6
1	K	563	LYS	2.6
2	i	101	ALA	2.6
1	E	15	PHE	2.6
1	N	388	PRO	2.6
1	T	571	TYR	2.6
1	U	227	GLU	2.6
1	E	547	PRO	2.6
1	B	576	LEU	2.6
1	G	505	GLN	2.6
2	i	135	ALA	2.6
1	M	253	ASP	2.6
1	T	386	THR	2.6
1	N	423	GLU	2.6
1	R	5	GLU	2.6
1	E	48	TYR	2.6
1	T	51	LEU	2.6
1	F	25	ALA	2.6
1	W	214	GLN	2.6
1	A	561	ASP	2.6
1	O	230	GLU	2.6
1	W	188	ALA	2.6
1	G	447	TYR	2.6
1	I	565	VAL	2.6
2	p	92	ALA	2.6
2	e	64	ILE	2.6
2	h	50	GLU	2.6
1	N	299	PRO	2.6
1	P	143	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	V	449	PHE	2.6
1	K	344	THR	2.6
1	H	560	LEU	2.6
1	I	27	ARG	2.6
2	g	112	ILE	2.6
1	P	552	LEU	2.6
1	S	28	GLU	2.6
1	C	58	ASP	2.6
1	L	185	GLU	2.6
2	b	67	TYR	2.6
1	Q	15	PHE	2.6
1	C	531	ASN	2.6
1	M	523	SER	2.6
1	S	580	GLY	2.6
1	T	595	GLU	2.6
1	K	285	ALA	2.6
1	Q	449	PHE	2.6
1	H	313	LYS	2.6
1	B	398	PRO	2.6
1	D	204	PRO	2.6
1	I	510	ILE	2.6
2	Y	108	ALA	2.6
1	X	34	PHE	2.6
1	A	600	LYS	2.6
1	V	584	PRO	2.6
1	I	204	PRO	2.6
1	S	596	ALA	2.6
1	A	570	ASP	2.6
1	K	225	VAL	2.6
1	L	437	GLN	2.6
1	V	540	GLY	2.6
1	F	89	ASP	2.6
1	G	110	ALA	2.6
1	H	420	VAL	2.6
1	H	456	ALA	2.6
1	K	84	ASP	2.6
2	n	62	ASP	2.6
1	U	83	LYS	2.6
1	W	459	ARG	2.6
1	U	150	HIS	2.6
1	A	595	GLU	2.6
1	C	379	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
1	D	203	ASN	2.6
2	b	123	LEU	2.6
1	K	224	GLU	2.6
1	X	497	VAL	2.6
1	A	580	GLY	2.6
1	A	452	ASN	2.6
1	I	599	ALA	2.6
1	L	424	ALA	2.6
2	i	23	LEU	2.6
1	B	595	GLU	2.6
1	O	210	PRO	2.6
1	R	387	GLN	2.6
1	S	214	GLN	2.6
1	F	463	ILE	2.6
1	F	259	ALA	2.6
1	H	210	PRO	2.6
1	J	241	GLY	2.6
1	K	234	ILE	2.6
1	P	375	ASN	2.6
1	R	265	LYS	2.6
1	L	273	ARG	2.6
1	O	517	TYR	2.6
1	T	260	ASP	2.6
1	K	85	GLY	2.6
2	r	94	ASP	2.6
1	P	592	TRP	2.6
1	G	576	LEU	2.6
2	p	146	TRP	2.6
1	P	7	ARG	2.6
1	D	26	ARG	2.6
2	b	106	LEU	2.6
2	f	146	GLY	2.6
1	S	575	GLN	2.6
1	T	162	SER	2.6
1	A	141	ASN	2.6
1	K	32	ASP	2.6
2	b	91	ALA	2.6
2	q	60	PHE	2.6
1	O	199	PRO	2.6
1	O	537	GLU	2.6
1	P	180	SER	2.6
1	U	195	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
1	W	332	MSE	2.6
1	A	47	GLN	2.6
1	B	384	LEU	2.6
1	H	42	ASP	2.6
1	M	497	VAL	2.6
1	O	15	PHE	2.6
1	V	597	GLN	2.6
2	m	66	PRO	2.6
1	N	325	ASP	2.6
2	a	151	ASN	2.6
2	j	117	LYS	2.6
2	o	89	CYS	2.6
1	T	165	MSE	2.6
1	X	338	ALA	2.6
1	A	568	MSE	2.6
1	J	285	ALA	2.6
2	n	147	HIS	2.6
2	t	53	GLY	2.6
1	T	561	ASP	2.6
1	D	237	ASP	2.6
1	T	592	TRP	2.6
1	D	294	ALA	2.6
2	s	110	GLY	2.6
1	O	460	ASP	2.5
1	R	421	ASP	2.5
1	S	58	ASP	2.5
1	P	457	MSE	2.5
2	t	7	GLY	2.5
2	i	55	GLU	2.5
2	j	53	MET	2.5
1	H	134	ASP	2.5
2	Y	139	SER	2.5
1	W	497	VAL	2.5
2	g	113	ILE	2.5
1	S	205	ASN	2.5
1	U	299	PRO	2.5
1	E	543	PRO	2.5
1	Q	565	VAL	2.5
2	k	28	VAL	2.5
2	k	69	GLU	2.5
1	X	529	GLN	2.5
1	A	544	GLN	2.5

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Mol	Chain	Res	Type	RSRZ
2	o	146	TRP	2.5
2	i	123	LEU	2.5
1	M	580	GLY	2.5
1	F	282	THR	2.5
1	K	567	MSE	2.5
1	L	245	SER	2.5
1	I	199	PRO	2.5
2	h	45	ALA	2.5
1	R	215	ASP	2.5
1	S	8	LEU	2.5
1	S	19	TRP	2.5
1	S	196	ASP	2.5
1	E	207	TRP	2.5
1	E	570	ASP	2.5
1	H	256	ASP	2.5
1	I	519	ASP	2.5
1	N	284	THR	2.5
1	K	171	ARG	2.5
1	K	434	THR	2.5
1	L	544	GLN	2.5
1	U	576	LEU	2.5
1	B	560	LEU	2.5
1	G	196	ASP	2.5
1	H	553	LEU	2.5
1	H	561	ASP	2.5
1	N	48	TYR	2.5
1	U	6	ASN	2.5
1	G	291	GLN	2.5
2	i	156	HIS	2.5
1	P	211	TRP	2.5
1	X	256	ASP	2.5
1	K	375	ASN	2.5
2	s	97	LEU	2.5
2	o	6	LYS	2.5
1	N	400	ALA	2.5
1	U	155	HIS	2.5
2	g	110	ALA	2.5
1	J	199	PRO	2.5
1	K	257	ASP	2.5
2	l	38	ASP	2.5
2	m	62	ASP	2.5
1	Q	602	GLY	2.5

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Mol	Chain	Res	Type	RSRZ
1	T	306	GLU	2.5
1	T	439	ASN	2.5
2	i	87	SER	2.5
1	X	92	ASP	2.5
1	X	339	ASP	2.5
2	a	157	TYR	2.5
2	c	142	PRO	2.5
1	V	582	LYS	2.5
1	B	7	ARG	2.5
1	K	87	ARG	2.5
1	L	99	ARG	2.5
1	O	237	ASP	2.5
1	A	283	CYS	2.5
1	Q	332	MSE	2.5
1	A	179	MSE	2.5
1	R	443	ASP	2.5
1	X	84	ASP	2.5
1	B	338	ALA	2.5
1	I	557	PHE	2.5
2	a	108	ALA	2.5
1	T	59	VAL	2.5
1	F	51	LEU	2.5
1	R	58	ASP	2.5
2	q	41	GLU	2.5
1	M	252	LYS	2.5
1	X	41	TRP	2.5
1	X	81	ARG	2.5
1	X	425	VAL	2.5
1	A	588	GLU	2.5
1	B	358	GLY	2.5
1	J	131	ASP	2.5
2	t	60	PHE	2.5
1	K	129	VAL	2.5
2	Z	83	GLY	2.5
1	B	553	LEU	2.5
1	T	203	ASN	2.5
1	U	313	LYS	2.5
1	V	161	ASN	2.5
1	D	49	THR	2.5
1	G	130	THR	2.5
1	H	50	THR	2.5
1	Q	145	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
1	X	5	GLU	2.5
1	A	5	GLU	2.5
1	D	244	VAL	2.5
1	L	85	GLY	2.5
1	F	459	ARG	2.5
2	l	28	VAL	2.5
1	A	556	TYR	2.5
1	F	161	ASN	2.5
1	B	324	LYS	2.5
2	f	83	GLY	2.5
1	T	242	GLU	2.5
2	c	38	GLU	2.5
1	N	197	ASP	2.5
1	Q	254	VAL	2.5
1	E	559	LEU	2.5
1	F	374	LEU	2.5
2	t	114	LEU	2.5
1	A	519	ASP	2.5
1	B	421	ASP	2.5
1	B	569	ARG	2.5
1	C	263	PHE	2.5
1	O	238	PRO	2.5
1	O	271	ILE	2.5
1	U	135	GLN	2.5
1	V	193	LEU	2.5
1	V	332	MSE	2.5
1	X	384	LEU	2.5
1	B	461	GLY	2.5
1	C	85	GLY	2.5
1	L	578	GLN	2.5
2	b	129	ILE	2.5
1	M	260	ASP	2.5
2	Y	67	TYR	2.5
2	d	157	TYR	2.5
2	u	139	SER	2.5
1	R	270	GLN	2.5
1	S	238	PRO	2.5
1	A	315	VAL	2.5
1	H	497	VAL	2.5
2	j	94	HIS	2.5
1	S	32	ASP	2.5
1	O	163	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
1	R	232	ALA	2.5
1	B	313	LYS	2.5
2	l	126	ALA	2.5
1	B	496	VAL	2.5
1	M	227	GLU	2.5
2	i	53	MET	2.5
1	P	237	ASP	2.5
1	Q	95	MSE	2.5
1	U	598	GLN	2.5
1	G	52	GLN	2.5
2	c	152	LEU	2.5
2	g	43	GLN	2.5
1	J	436	ASN	2.5
2	o	148	TYR	2.5
1	C	49	THR	2.5
1	J	24	GLU	2.5
1	J	186	ASP	2.5
1	K	204	PRO	2.5
2	e	47	ASP	2.5
1	D	458	ARG	2.5
1	E	579	MSE	2.4
2	t	91	ILE	2.5
2	Y	100	ILE	2.5
1	G	51	LEU	2.4
1	P	506	VAL	2.4
1	W	170	ALA	2.4
1	C	597	GLN	2.4
1	E	261	SER	2.4
2	l	19	VAL	2.4
2	c	51	ALA	2.4
1	O	27	ARG	2.4
1	T	343	ARG	2.4
1	C	458	ARG	2.4
1	I	441	ARG	2.4
1	R	417	THR	2.4
1	D	515	GLU	2.4
1	I	130	THR	2.4
2	o	26	THR	2.4
2	e	34	LEU	2.4
1	M	578	GLN	2.4
1	T	207	TRP	2.4
1	U	288	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
1	W	564	GLY	2.4
2	a	22	ALA	2.4
1	M	556	TYR	2.4
1	S	567	MSE	2.4
1	W	49	THR	2.4
1	A	379	GLU	2.4
1	N	416	ALA	2.4
1	B	575	GLN	2.4
1	P	76	ILE	2.4
1	R	194	ASP	2.4
1	P	20	THR	2.4
1	R	388	PRO	2.4
1	S	220	ALA	2.4
1	A	25	ALA	2.4
1	O	519	ASP	2.4
1	B	192	ASP	2.4
1	I	457	MSE	2.4
1	L	283	CYS	2.4
1	C	561	ASP	2.4
1	C	570	ASP	2.4
1	H	40	GLN	2.4
2	e	46	VAL	2.4
1	P	199	PRO	2.4
1	V	419	GLY	2.4
1	M	208	VAL	2.4
1	U	519	ASP	2.4
1	A	32	ASP	2.4
1	G	585	GLU	2.4
2	t	16	LYS	2.4
2	f	151	ASN	2.4
2	i	98	CYS	2.4
1	L	102	MSE	2.4
1	J	51	LEU	2.4
1	L	422	THR	2.4
2	m	70	GLY	2.4
1	N	210	PRO	2.4
1	D	319	VAL	2.4
2	f	106	LEU	2.4
1	O	548	GLU	2.4
1	E	590	GLN	2.4
1	K	144	ILE	2.4
2	b	43	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
2	j	43	GLN	2.4
1	H	299	PRO	2.4
2	m	68	ALA	2.4
2	s	36	ALA	2.4
2	f	124	TYR	2.4
1	U	264	ILE	2.4
1	U	421	ASP	2.4
1	D	570	ASP	2.4
1	E	541	LYS	2.4
1	J	198	ILE	2.4
2	k	145	GLU	2.4
2	c	111	LYS	2.4
1	D	207	TRP	2.4
1	M	33	LEU	2.4
1	X	552	LEU	2.4
1	K	323	THR	2.4
2	j	156	HIS	2.4
1	L	557	PHE	2.4
2	s	119	ALA	2.4
1	A	185	GLU	2.4
1	D	264	ILE	2.4
1	U	202	GLN	2.4
1	E	420	VAL	2.4
2	c	73	GLU	2.4
1	C	553	LEU	2.4
1	P	267	ALA	2.4
1	K	233	PHE	2.4
1	U	102	MSE	2.4
1	W	549	TYR	2.4
2	f	101	ALA	2.4
1	X	19	TRP	2.4
2	a	100	ILE	2.4
1	N	591	GLN	2.4
1	A	139	SER	2.4
1	E	502	GLY	2.4
2	k	68	ALA	2.4
2	e	91	ALA	2.4
1	M	50	THR	2.4
1	K	203	ASN	2.4
1	K	417	THR	2.4
1	P	555	GLN	2.4
1	V	7	ARG	2.4

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Mol	Chain	Res	Type	RSRZ
1	X	91	ALA	2.4
1	H	260	ASP	2.4
1	X	556	TYR	2.4
1	C	264	ILE	2.4
2	h	73	GLU	2.4
1	R	206	ASP	2.4
1	R	456	ALA	2.4
1	S	181	GLN	2.4
1	W	587	PRO	2.4
1	G	218	GLN	2.4
1	K	281	ILE	2.4
1	L	592	TRP	2.4
1	B	531	ASN	2.4
1	G	582	LYS	2.4
2	m	95	TYR	2.4
2	o	33	MET	2.4
1	N	218	GLN	2.4
1	R	256	ASP	2.4
1	V	506	VAL	2.4
1	G	193	LEU	2.4
1	H	445	GLU	2.4
1	H	554	LEU	2.4
2	i	109	THR	2.4
1	N	332	MSE	2.4
1	O	263	PHE	2.4
1	R	578	GLN	2.4
1	H	550	GLN	2.4
1	J	368	ASP	2.4
1	T	35	PHE	2.4
1	J	399	GLN	2.4
1	S	246	TYR	2.4
1	I	301	VAL	2.4
2	k	71	ASP	2.4
2	t	75	LEU	2.4
2	f	138	PRO	2.4
2	g	76	PRO	2.4
1	M	198	ILE	2.4
1	L	577	ILE	2.4
1	M	122	GLY	2.4
1	E	313	LYS	2.4
1	L	50	THR	2.4
1	L	565	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
2	m	61	SER	2.4
2	Z	144	GLY	2.4
1	L	538	LEU	2.4
1	L	561	ASP	2.4
2	s	40	LEU	2.4
2	d	31	ASP	2.4
1	S	578	GLN	2.4
1	W	47	GLN	2.4
1	C	463	ILE	2.4
2	b	105	ALA	2.4
1	P	545	GLY	2.4
1	Q	246	TYR	2.4
1	V	92	ASP	2.4
1	I	98	TYR	2.4
1	T	533	ALA	2.4
1	T	569	ARG	2.4
2	s	142	ASN	2.4
2	a	105	ALA	2.4
2	g	105	ALA	2.4
2	h	121	GLU	2.4
1	W	581	VAL	2.4
1	T	567	MSE	2.4
1	H	267	ALA	2.4
1	I	86	ALA	2.4
1	I	115	VAL	2.4
1	I	404	MSE	2.4
2	k	90	ARG	2.4
2	o	69	GLU	2.4
2	o	91	ILE	2.4
2	a	102	PRO	2.4
1	X	215	ASP	2.4
1	X	573	ASN	2.3
2	m	26	THR	2.3
2	n	22	ASP	2.4
1	M	549	TYR	2.3
1	O	242	GLU	2.3
1	W	195	ALA	2.3
1	A	70	GLU	2.3
2	v	29	GLU	2.3
2	e	121	GLU	2.3
1	C	215	ASP	2.3
2	s	146	TRP	2.3

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Mol	Chain	Res	Type	RSRZ
2	Z	33	THR	2.3
2	e	71	ASP	2.3
2	i	31	ASP	2.3
1	M	499	LEU	2.3
1	Q	97	MSE	2.3
1	D	568	MSE	2.3
2	h	122	LEU	2.3
2	i	92	VAL	2.3
1	W	515	GLU	2.3
2	p	150	PRO	2.3
1	R	531	ASN	2.3
1	S	570	ASP	2.3
1	H	501	THR	2.3
1	K	505	GLN	2.3
1	L	282	THR	2.3
2	m	22	ASP	2.3
1	C	261	SER	2.3
1	W	60	VAL	2.3
1	C	100	THR	2.3
1	F	228	LYS	2.3
2	Z	47	ASP	2.3
1	I	493	MSE	2.3
2	l	79	ALA	2.3
1	N	498	ASP	2.3
2	r	145	GLU	2.3
2	s	145	GLU	2.3
1	E	202	GLN	2.3
2	r	6	LYS	2.3
1	R	424	ALA	2.3
1	C	551	LEU	2.3
1	S	497	VAL	2.3
1	U	547	PRO	2.3
1	B	299	PRO	2.3
1	D	337	ASN	2.3
2	i	21	ALA	2.3
1	G	260	ASP	2.3
1	L	425	VAL	2.3
2	Y	70	SER	2.3
2	b	47	ASP	2.3
2	g	48	ASP	2.3
1	T	262	GLY	2.3
1	W	28	GLU	2.3

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Mol	Chain	Res	Type	RSRZ
1	D	314	GLU	2.3
1	G	50	THR	2.3
1	K	49	THR	2.3
1	K	461	GLY	2.3
1	H	389	LEU	2.3
2	k	33	MET	2.3
1	N	260	ASP	2.3
1	T	41	TRP	2.3
2	v	133	PRO	2.3
2	Y	91	ALA	2.3
1	O	502	GLY	2.3
1	Q	50	THR	2.3
1	U	546	THR	2.3
1	V	311	GLU	2.3
2	t	95	TYR	2.3
1	M	114	ALA	2.3
1	T	530	GLN	2.3
1	U	505	GLN	2.3
1	C	47	GLN	2.3
1	I	234	ILE	2.3
2	b	17	ASP	2.3
2	d	71	ASP	2.3
1	N	445	GLU	2.3
1	O	97	MSE	2.3
1	P	132	TYR	2.3
1	U	97	MSE	2.3
1	X	179	MSE	2.3
1	X	205	ASN	2.3
1	W	551	LEU	2.3
1	A	601	GLN	2.3
2	b	94	HIS	2.3
2	g	84	LEU	2.3
2	v	35	ASP	2.3
2	Y	42	MET	2.3
1	A	406	GLU	2.3
1	B	571	TYR	2.3
1	I	227	GLU	2.3
1	T	593	LEU	2.3
1	X	421	ASP	2.3
1	A	456	ALA	2.3
1	J	255	ILE	2.3
2	f	113	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
1	M	584	PRO	2.3
1	O	422	THR	2.3
1	F	425	VAL	2.3
1	O	495	GLU	2.3
1	O	551	LEU	2.3
1	P	255	ILE	2.3
1	A	51	LEU	2.3
1	E	535	ILE	2.3
1	E	557	PHE	2.3
1	F	217	ILE	2.3
1	V	587	PRO	2.3
2	h	146	GLY	2.3
1	U	249	ARG	2.3
1	D	426	ASN	2.3
1	V	283	CYS	2.3
1	G	386	THR	2.3
1	Q	510	ILE	2.3
1	B	42	ASP	2.3
1	C	602	GLY	2.3
1	G	312	ASP	2.3
1	K	390	ALA	2.3
2	g	58	GLN	2.3
1	O	87	ARG	2.3
1	U	518	THR	2.3
1	W	207	TRP	2.3
2	e	69	PHE	2.3
1	N	580	GLY	2.3
1	P	533	ALA	2.3
1	V	589	GLU	2.3
1	E	16	ASP	2.3
1	E	425	VAL	2.3
1	E	540	GLY	2.3
1	F	289	ASP	2.3
1	G	103	ARG	2.3
1	Q	504	LYS	2.3
1	N	5	GLU	2.3
1	T	538	LEU	2.3
1	A	79	LEU	2.3
1	F	461	GLY	2.3
1	I	180	SER	2.3
2	q	14	LEU	2.3
2	s	27	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
1	H	447	TYR	2.3
2	u	148	TYR	2.3
2	b	121	GLU	2.3
1	A	591	GLN	2.3
1	G	591	GLN	2.3
2	j	143	THR	2.3
1	X	264	ILE	2.3
1	H	397	VAL	2.3
1	P	423	GLU	2.3
2	a	50	GLU	2.3
2	h	32	ALA	2.3
1	N	387	GLN	2.3
1	W	184	TRP	2.3
1	I	388	PRO	2.3
1	S	324	LYS	2.3
1	T	425	VAL	2.3
1	B	55	GLY	2.3
1	E	339	ASP	2.3
1	G	581	VAL	2.3
1	K	538	LEU	2.3
1	B	495	GLU	2.3
1	D	28	GLU	2.3
1	K	406	GLU	2.3
1	N	440	MSE	2.3
1	T	214	GLN	2.3
1	U	55	GLY	2.3
1	U	326	GLY	2.3
1	V	312	ASP	2.3
1	A	367	ASP	2.3
1	B	598	GLN	2.3
1	C	358	GLY	2.3
1	L	49	THR	2.3
1	F	237	ASP	2.3
1	F	290	LYS	2.3
2	e	36	ASP	2.3
2	f	103	ASP	2.3
1	P	553	LEU	2.3
1	G	551	LEU	2.3
1	K	8	LEU	2.3
1	D	211	TRP	2.3
2	g	56	TRP	2.3
1	S	549	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
1	U	191	TYR	2.3
1	L	92	ASP	2.3
2	h	58	GLN	2.3
1	A	538	LEU	2.3
1	S	426	ASN	2.3
1	V	455	THR	2.3
1	G	388	PRO	2.3
1	P	535	ILE	2.3
1	S	591	GLN	2.3
1	G	236	GLN	2.3
1	G	278	LYS	2.3
1	S	254	VAL	2.3
2	g	18	LEU	2.3
2	g	92	VAL	2.3
1	R	100	THR	2.3
1	T	9	GLU	2.3
1	T	537	GLU	2.3
1	L	421	ASP	2.3
2	f	81	ASP	2.3
1	E	170	ALA	2.2
1	E	533	ALA	2.2
2	f	49	LEU	2.2
1	I	508	ASN	2.2
1	I	423	GLU	2.2
2	i	14	THR	2.2
2	j	47	ASP	2.2
1	X	459	ARG	2.2
1	M	85	GLY	2.2
1	A	96	GLY	2.2
1	A	592	TRP	2.2
1	G	81	ARG	2.2
2	a	84	LEU	2.2
1	B	586	THR	2.2
1	C	206	ASP	2.2
1	C	546	THR	2.2
1	K	433	ASP	2.2
2	t	141	PRO	2.2
2	Y	109	THR	2.2
2	g	129	ILE	2.2
2	h	89	VAL	2.2
1	M	313	LYS	2.2
1	A	48	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
1	L	202	GLN	2.2
2	f	108	ALA	2.2
1	Q	567	MSE	2.2
1	X	150	HIS	2.2
1	A	410	SER	2.2
1	F	558	THR	2.2
1	N	31	ASN	2.2
1	Q	592	TRP	2.2
1	U	173	CYS	2.2
1	G	300	ILE	2.2
1	I	117	GLU	2.2
1	H	91	ALA	2.2
1	H	161	ASN	2.2
1	I	331	ASN	2.2
2	Z	38	GLU	2.2
1	U	327	GLN	2.2
1	D	507	LEU	2.2
1	B	35	PHE	2.2
1	D	386	THR	2.2
1	P	589	GLU	2.2
1	X	227	GLU	2.2
1	B	120	GLU	2.2
1	T	56	GLN	2.2
1	U	316	TYR	2.2
1	G	80	TYR	2.2
2	t	52	LYS	2.2
1	A	173	CYS	2.2
1	O	130	THR	2.2
1	S	417	THR	2.2
1	X	580	GLY	2.2
1	D	162	SER	2.2
1	C	582	LYS	2.2
2	p	79	ALA	2.2
2	p	117	GLN	2.2
2	Y	18	LEU	2.2
2	Y	84	LEU	2.2
2	c	32	ALA	2.2
1	C	35	PHE	2.2
1	I	570	ASP	2.2
1	J	23	ASP	2.2
1	J	519	ASP	2.2
1	Q	545	GLY	2.2

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Mol	Chain	Res	Type	RSRZ
1	X	388	PRO	2.2
2	m	127	PRO	2.2
1	B	563	LYS	2.2
1	B	565	VAL	2.2
1	C	499	LEU	2.2
1	D	332	MSE	2.2
2	u	87	LEU	2.2
2	Y	69	PHE	2.2
2	j	77	ALA	2.2
2	Y	80	ASP	2.2
1	M	138	THR	2.2
1	B	564	GLY	2.2
2	e	42	MET	2.2
1	M	215	ASP	2.2
1	T	339	ASP	2.2
1	A	147	GLU	2.2
1	B	5	GLU	2.2
1	C	314	GLU	2.2
1	D	9	GLU	2.2
1	D	589	GLU	2.2
1	F	596	ALA	2.2
1	H	274	ARG	2.2
1	K	449	PHE	2.2
2	m	20	ALA	2.2
2	e	97	ALA	2.2
1	M	132	TYR	2.2
1	O	535	ILE	2.2
1	Q	550	GLN	2.2
1	R	240	THR	2.2
1	X	48	TYR	2.2
1	J	549	TYR	2.2
1	F	569	ARG	2.2
1	K	18	ASP	2.2
1	K	267	ALA	2.2
2	a	69	PHE	2.2
1	P	334	MSE	2.2
1	R	423	GLU	2.2
1	X	58	ASP	2.2
1	C	593	LEU	2.2
2	s	124	LYS	2.2
2	d	82	HIS	2.2
1	R	47	GLN	2.2

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Mol	Chain	Res	Type	RSRZ
1	V	266	ILE	2.2
1	B	284	THR	2.2
2	h	28	VAL	2.2
2	h	41	SER	2.2
2	i	124	TYR	2.2
1	U	294	ALA	2.2
1	J	134	ASP	2.2
2	s	23	ALA	2.2
1	N	212	LEU	2.2
1	S	536	LEU	2.2
1	C	207	TRP	2.2
1	U	80	TYR	2.2
1	D	236	GLN	2.2
1	G	213	THR	2.2
1	G	558	THR	2.2
2	a	104	TYR	2.2
1	P	134	ASP	2.2
1	N	249	ARG	2.2
1	R	96	GLY	2.2
1	K	192	ASP	2.2
1	R	296	GLU	2.2
1	S	7	ARG	2.2
1	X	569	ARG	2.2
1	K	79	LEU	2.2
1	K	229	LYS	2.2
2	q	53	GLY	2.2
2	s	28	VAL	2.2
2	t	122	ARG	2.2
2	b	133	LYS	2.2
1	I	155	HIS	2.2
1	J	317	GLU	2.2
2	m	115	TYR	2.2
1	X	259	ALA	2.2
1	G	152	ALA	2.2
1	H	416	ALA	2.2
2	i	77	ALA	2.2
1	X	15	PHE	2.2
1	I	287	LEU	2.2
1	J	438	LEU	2.2
2	j	28	VAL	2.2
1	M	588	GLU	2.2
1	D	549	TYR	2.2

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Mol	Chain	Res	Type	RSRZ
1	J	404	MSE	2.2
1	K	195	ALA	2.2
1	L	16	ASP	2.2
2	m	72	ASP	2.2
1	N	233	PHE	2.2
1	L	600	LYS	2.2
1	T	535	ILE	2.2
1	X	120	GLU	2.2
1	S	35	PHE	2.2
1	B	601	GLN	2.2
1	H	47	GLN	2.2
1	H	214	GLN	2.2
1	K	361	HIS	2.2
2	i	56	TRP	2.2
1	U	396	GLU	2.2
2	k	64	GLU	2.2
1	A	579	MSE	2.2
1	G	549	TYR	2.2
1	J	556	TYR	2.2
1	N	217	ILE	2.2
1	P	141	ASN	2.2
1	D	388	PRO	2.2
2	q	132	MET	2.2
2	i	155	TRP	2.2
1	A	529	GLN	2.2
1	H	150	HIS	2.2
1	J	552	LEU	2.2
2	Z	95	ASN	2.2
2	i	125	LYS	2.2
1	U	209	PHE	2.2
1	G	457	MSE	2.2
2	p	72	ASP	2.2
2	u	39	ASP	2.2
1	P	224	GLU	2.2
1	U	238	PRO	2.2
1	X	133	GLU	2.2
1	D	24	GLU	2.2
1	I	238	PRO	2.2
2	k	73	HIS	2.2
2	f	105	ALA	2.2
1	U	60	VAL	2.2
1	X	36	SER	2.2

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Mol	Chain	Res	Type	RSRZ
1	V	255	ILE	2.2
1	V	565	VAL	2.2
1	C	208	VAL	2.2
1	K	509	ASP	2.2
1	L	76	ILE	2.2
2	g	15	LYS	2.2
2	g	157	TYR	2.2
2	h	124	TYR	2.2
2	j	69	PHE	2.2
1	O	462	GLU	2.2
1	I	153	CYS	2.2
1	Q	6	ASN	2.2
1	L	28	GLU	2.2
1	U	244	VAL	2.2
1	A	351	PHE	2.2
1	K	300	ILE	2.2
1	L	574	LYS	2.2
2	m	59	VAL	2.2
1	O	171	ARG	2.2
1	U	571	TYR	2.2
2	n	110	GLY	2.2
2	p	113	LEU	2.2
2	d	124	TYR	2.2
2	e	49	LEU	2.2
2	i	27	GLY	2.2
2	j	25	LYS	2.2
1	C	339	ASP	2.2
1	T	527	MSE	2.1
1	P	360	GLU	2.1
1	V	232	ALA	2.1
1	C	388	PRO	2.1
1	E	426	ASN	2.1
1	F	205	ASN	2.1
1	I	239	VAL	2.1
1	J	63	VAL	2.1
1	P	12	LEU	2.1
1	C	600	LYS	2.1
2	s	25	LEU	2.1
2	p	15	ARG	2.1
2	e	31	ASP	2.1
1	V	580	GLY	2.1
1	X	241	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
1	X	557	PHE	2.1
1	I	143	VAL	2.1
1	G	296	GLU	2.1
1	L	267	ALA	2.1
1	O	455	THR	2.1
1	S	405	LEU	2.1
1	W	58	ASP	2.1
1	X	217	ILE	2.1
1	H	23	ASP	2.1
2	Z	155	TRP	2.1
2	d	36	ASP	2.1
1	U	277	TYR	2.1
2	k	65	ASN	2.1
1	N	456	ALA	2.1
1	U	543	PRO	2.1
2	o	141	PRO	2.1
1	P	192	ASP	2.1
1	Q	24	GLU	2.1
2	j	55	GLU	2.1
1	T	529	GLN	2.1
1	U	569	ARG	2.1
1	U	590	GLN	2.1
1	A	323	THR	2.1
1	B	546	THR	2.1
1	C	202	GLN	2.1
1	K	264	ILE	2.1
1	I	426	ASN	2.1
1	L	214	GLN	2.1
2	b	112	ILE	2.1
1	J	369	TYR	2.1
1	Q	552	LEU	2.1
1	E	213	THR	2.1
1	E	462	GLU	2.1
1	J	212	LEU	2.1
2	a	96	LEU	2.1
1	P	181	GLN	2.1
1	V	168	SER	2.1
1	W	218	GLN	2.1
1	X	139	SER	2.1
1	A	26	ARG	2.1
1	B	236	GLN	2.1
1	F	575	GLN	2.1

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Mol	Chain	Res	Type	RSRZ
1	P	556	TYR	2.1
1	U	177	HIS	2.1
1	B	318	GLY	2.1
1	H	419	GLY	2.1
1	V	388	PRO	2.1
1	I	447	TYR	2.1
1	K	220	ALA	2.1
2	h	105	ALA	2.1
1	N	541	LYS	2.1
1	O	252	LYS	2.1
1	P	539	LEU	2.1
1	U	449	PHE	2.1
1	U	554	LEU	2.1
1	I	288	LYS	2.1
1	I	310	VAL	2.1
1	K	12	LEU	2.1
1	L	203	ASN	2.1
2	t	41	GLU	2.1
2	c	153	ASN	2.1
1	X	318	GLY	2.1
2	f	20	ARG	2.1
1	W	25	ALA	2.1
2	Z	156	HIS	2.1
1	N	581	VAL	2.1
1	U	33	LEU	2.1
1	F	153	CYS	2.1
1	L	103	ARG	2.1
1	H	498	ASP	2.1
1	J	524	PHE	2.1
2	p	68	ALA	2.1
1	W	260	ASP	2.1
2	s	22	ASP	2.1
2	d	42	MET	2.1
2	j	102	PRO	2.1
1	W	503	GLU	2.1
1	U	35	PHE	2.1
1	B	91	ALA	2.1
1	C	353	PRO	2.1
1	I	244	VAL	2.1
2	k	38	ASP	2.1
2	e	142	PRO	2.1
2	i	29	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
1	O	173	CYS	2.1
1	O	389	LEU	2.1
1	R	404	MSE	2.1
1	S	568	MSE	2.1
1	A	545	GLY	2.1
1	B	409	THR	2.1
2	i	143	THR	2.1
1	M	218	GLN	2.1
1	B	26	ARG	2.1
1	C	72	ARG	2.1
1	D	249	ARG	2.1
1	P	197	ASP	2.1
1	B	519	ASP	2.1
1	D	584	PRO	2.1
1	G	367	ASP	2.1
1	I	236	GLN	2.1
1	L	388	PRO	2.1
2	q	38	ASP	2.1
2	t	62	ASP	2.1
2	a	150	PRO	2.1
2	b	31	ASP	2.1
1	O	264	ILE	2.1
2	u	85	HIS	2.1
1	S	211	TRP	2.1
1	H	34	PHE	2.1
1	K	360	GLU	2.1
1	L	462	GLU	2.1
1	X	27	ARG	2.1
1	A	424	ALA	2.1
1	G	232	ALA	2.1
1	H	378	ASP	2.1
1	J	532	ARG	2.1
2	j	95	ASN	2.1
1	W	568	MSE	2.1
1	X	559	LEU	2.1
1	B	463	ILE	2.1
1	J	75	PRO	2.1
1	D	8	LEU	2.1
1	H	163	LYS	2.1
1	I	59	VAL	2.1
2	g	137	TYR	2.1
2	b	53	MET	2.1

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Mol	Chain	Res	Type	RSRZ
2	f	120	LYS	2.1
1	A	423	GLU	2.1
1	P	437	GLN	2.1
1	R	183	GLY	2.1
1	D	461	GLY	2.1
1	I	458	ARG	2.1
2	t	8	ASP	2.1
2	a	29	ALA	2.1
2	b	16	GLY	2.1
1	V	539	LEU	2.1
1	W	386	THR	2.1
2	c	158	PHE	2.1
1	K	511	ARG	2.1
1	K	589	GLU	2.1
2	s	64	GLU	2.1
2	v	33	MET	2.1
1	U	454	ALA	2.1
2	Y	72	ASP	2.1
2	a	121	GLU	2.1
2	b	110	ALA	2.1
1	S	202	GLN	2.1
1	N	586	THR	2.1
1	E	554	LEU	2.1
2	r	75	LEU	2.1
1	X	600	LYS	2.1
2	b	153	ASN	2.1
2	f	61	LYS	2.1
1	W	186	ASP	2.1
2	m	21	SER	2.1
2	h	31	ASP	2.1
2	j	36	ASP	2.1
2	c	93	PHE	2.1
1	V	422	THR	2.1
1	G	292	LEU	2.1
1	H	291	GLN	2.1
1	S	582	LYS	2.1
1	N	209	PHE	2.1
1	Q	557	PHE	2.1
1	U	151	SER	2.1
1	G	583	LYS	2.1
1	T	60	VAL	2.1
1	T	594	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
1	U	463	ILE	2.1
1	V	103	ARG	2.1
1	U	100	THR	2.1
1	B	95	MSE	2.1
1	C	6	ASN	2.1
1	I	548	GLU	2.1
1	L	547	PRO	2.1
1	C	79	LEU	2.1
1	F	551	LEU	2.1
2	p	65	ASN	2.1
1	B	34	PHE	2.1
1	B	131	ASP	2.1
2	o	16	LYS	2.1
2	e	157	TYR	2.1
2	j	144	GLY	2.1
1	N	385	PRO	2.1
1	S	147	GLU	2.1
1	O	505	GLN	2.1
1	I	387	GLN	2.1
1	K	13	SER	2.1
2	q	61	SER	2.1
1	S	421	ASP	2.1
1	S	540	GLY	2.1
1	U	602	GLY	2.1
2	e	96	LEU	2.1
1	A	312	ASP	2.1
1	G	92	ASP	2.1
2	u	62	ASP	2.1
1	C	294	ALA	2.1
1	J	25	ALA	2.1
2	k	36	ALA	2.1
2	p	99	ALA	2.1
2	h	22	ALA	2.1
2	h	108	ALA	2.1
1	P	388	PRO	2.1
1	B	103	ARG	2.1
1	E	269	ARG	2.1
1	G	455	THR	2.1
1	I	189	GLU	2.1
1	K	296	GLU	2.1
2	c	107	GLU	2.1
1	O	539	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	T	421	ASP	2.1
1	V	167	LYS	2.1
1	W	228	LYS	2.1
1	W	237	ASP	2.1
1	A	18	ASP	2.1
1	N	508	ASN	2.1
1	M	558	THR	2.1
1	O	420	VAL	2.1
1	U	34	PHE	2.1
1	F	210	PRO	2.1
1	G	82	PRO	2.1
1	J	388	PRO	2.1
1	J	425	VAL	2.1
1	L	20	THR	2.1
2	e	27	GLY	2.1
2	e	150	PRO	2.1
1	C	46	SER	2.1
2	l	14	LEU	2.1
2	m	25	LEU	2.1
2	i	34	LEU	2.1
1	S	569	ARG	2.1
1	V	209	PHE	2.1
1	A	217	ILE	2.1
1	F	359	PHE	2.1
1	R	227	GLU	2.1
1	A	534	GLU	2.1
1	D	534	GLU	2.1
1	G	381	SER	2.1
1	I	85	GLY	2.1
1	J	306	GLU	2.1
1	L	534	GLU	2.1
1	U	591	GLN	2.0
1	G	31	ASN	2.0
1	B	11	ILE	2.0
1	D	408	ALA	2.0
1	M	87	ARG	2.0
1	N	520	VAL	2.0
1	P	538	LEU	2.0
1	R	260	ASP	2.0
1	S	368	ASP	2.0
1	X	443	ASP	2.0
1	X	546	THR	2.0

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Mol	Chain	Res	Type	RSRZ
2	d	104	TYR	2.0
1	A	554	LEU	2.0
1	H	537	GLU	2.0
2	n	27	ASP	2.0
1	M	400	ALA	2.0
1	S	555	GLN	2.0
1	S	264	ILE	2.0
1	U	259	ALA	2.0
1	F	218	GLN	2.0
1	J	202	GLN	2.0
1	J	596	ALA	2.0
1	X	564	GLY	2.0
1	K	102	MSE	2.0
1	B	58	ASP	2.0
1	H	53	TYR	2.0
2	c	150	PRO	2.0
2	d	80	ASP	2.0
1	T	39	SER	2.0
1	V	294	ALA	2.0
1	X	270	GLN	2.0
1	C	420	VAL	2.0
1	D	387	GLN	2.0
1	I	555	GLN	2.0
2	j	126	GLN	2.0
1	Q	269	ARG	2.0
1	Q	367	ASP	2.0
1	W	101	ASP	2.0
2	Z	72	ASP	2.0
2	b	142	PRO	2.0
2	b	150	PRO	2.0
1	F	24	GLU	2.0
1	I	313	LYS	2.0
1	V	547	PRO	2.0
1	I	210	PRO	2.0
1	I	452	ASN	2.0
1	G	371	TYR	2.0
1	I	397	VAL	2.0
1	J	359	PHE	2.0
2	u	106	THR	2.0
1	E	212	LEU	2.0
1	F	239	VAL	2.0
1	L	448	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
1	P	408	ALA	2.0
1	R	338	ALA	2.0
1	U	24	GLU	2.0
1	T	198	ILE	2.0
1	C	52	GLN	2.0
1	D	234	ILE	2.0
1	F	456	ALA	2.0
1	I	172	HIS	2.0
1	I	291	GLN	2.0
1	L	251	ILE	2.0
2	Y	135	ALA	2.0
1	V	32	ASP	2.0
1	I	49	THR	2.0
1	L	75	PRO	2.0
2	p	71	ASP	2.0
1	E	41	TRP	2.0
1	L	376	ARG	2.0
1	O	246	TYR	2.0
1	H	173	CYS	2.0
1	J	180	SER	2.0
1	K	178	SER	2.0
1	O	527	MSE	2.0
1	W	380	ASN	2.0
1	X	35	PHE	2.0
1	D	101	ASP	2.0
1	E	57	PHE	2.0
1	K	31	ASN	2.0
1	X	386	THR	2.0
1	E	368	ASP	2.0
1	P	540	GLY	2.0
1	A	249	ARG	2.0
1	C	441	ARG	2.0
1	C	569	ARG	2.0
1	E	193	LEU	2.0
2	f	99	ARG	2.0
1	R	267	ALA	2.0
1	U	221	GLU	2.0
1	B	221	GLU	2.0
1	C	170	ALA	2.0
1	G	147	GLU	2.0
1	H	117	GLU	2.0
2	p	119	ALA	2.0

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Mol	Chain	Res	Type	RSRZ
2	d	64	ILE	2.0
1	Q	160	SER	2.0
1	D	238	PRO	2.0
2	g	115	THR	2.0
1	J	145	ARG	2.0
1	M	357	ALA	2.0
1	N	425	VAL	2.0
1	Q	268	GLU	2.0
1	U	423	GLU	2.0
1	V	152	ALA	2.0
1	S	41	TRP	2.0
1	S	134	ASP	2.0
1	C	230	GLU	2.0
2	r	71	ASP	2.0
1	S	434	THR	2.0
1	C	236	GLN	2.0
1	D	530	GLN	2.0
1	F	529	GLN	2.0
1	S	551	LEU	2.0
1	G	374	LEU	2.0
1	G	539	LEU	2.0
1	I	376	ARG	2.0
1	J	551	LEU	2.0
1	K	536	LEU	2.0
2	l	66	PRO	2.0
2	t	17	LEU	2.0
2	a	140	ARG	2.0
2	h	76	PRO	2.0
1	C	86	ALA	2.0
1	J	300	ILE	2.0
1	J	346	LYS	2.0
1	K	21	ALA	2.0
1	L	339	ASP	2.0
2	p	88	ALA	2.0
1	R	445	GLU	2.0
1	S	534	GLU	2.0
1	X	147	GLU	2.0
1	X	417	THR	2.0
1	B	344	THR	2.0
1	E	461	GLY	2.0
2	s	26	THR	2.0
1	Q	243	PRO	2.0

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Mol	Chain	Res	Type	RSRZ
1	A	444	LEU	2.0
1	D	587	PRO	2.0
2	b	136	PRO	2.0
2	h	20	ARG	2.0

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

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

6.3 Carbohydrates ⓘ

There are no carbohydrates in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.