Full wwPDB EM Validation Report ⓘ

Mar 26, 2026 – 11:42 PM JST

PDB ID	:	23AS / pdb_000023as
EMDB ID	:	EMD-68805
Title	:	Structure of Arabidopsis SNX1 (Class l, 7-fold)
Authors	:	Li, Y.B.; Tao, R.; Zhang, H.; Wen, X.K.; Leung, S.K.P.; Lau, W.C.Y.; Jiang, L.W.; Cui, Y.
Deposited on	:	2026-01-30
Resolution	:	7.20 Å(reported)

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

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

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

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

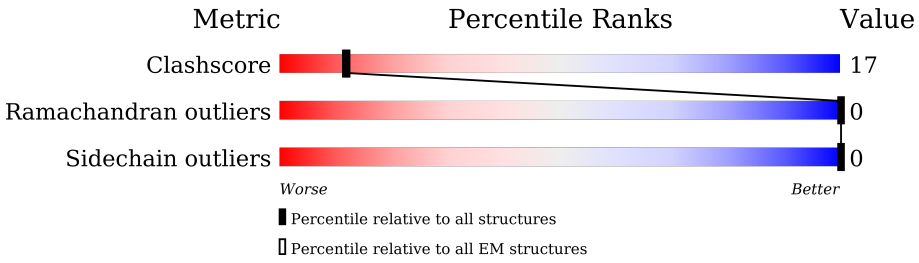
EMDB validation analysis	:	FAILED
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	NOT EXECUTED
MapQ	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.48.1

1 Overall quality at a glance

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

The reported resolution of this entry is 7.20 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	0	402	59% 35% 6%
1	1	402	57% 37% 6%
1	2	402	57% 37% 6%
1	3	402	57% 37% 6%
1	4	402	58% 36% 6%
1	5	402	58% 37% 6%
1	6	402	57% 37% 6%
1	7	402	57% 37% 6%
1	8	402	57% 38% 6%

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Mol	Chain	Length	Quality of chain
1	9	402	57% 37% 6%
1	A	402	59% 35% 6%
1	AA	402	59% 36% 6%
1	AB	402	57% 37% 6%
1	AC	402	58% 37% 6%
1	AD	402	57% 38% 6%
1	AE	402	58% 37% 6%
1	AF	402	57% 37% 6%
1	AG	402	57% 37% 6%
1	AH	402	57% 37% 6%
1	AI	402	59% 36% 6%
1	AJ	402	58% 36% 6%
1	AK	402	59% 36% 6%
1	AL	402	57% 37% 6%
1	AM	402	58% 36% 6%
1	AN	402	59% 36% 6%
1	AO	402	58% 36% 6%
1	AP	402	58% 36% 6%
1	AQ	402	58% 36% 6%
1	AR	402	57% 37% 6%
1	AS	402	59% 36% 6%
1	B	402	58% 36% 6%
1	C	402	58% 36% 6%
1	D	402	57% 37% 6%
1	E	402	59% 35% 6%

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Mol	Chain	Length	Quality of chain
1	F	402	58% 37% 6%
1	G	402	58% 36% 6%
1	H	402	56% 38% 6%
1	I	402	57% 37% 6%
1	J	402	57% 37% 6%
1	K	402	58% 36% 6%
1	L	402	58% 36% 6%
1	M	402	58% 36% 6%
1	N	402	56% 38% 6%
1	O	402	57% 37% 6%
1	P	402	57% 37% 6%
1	Q	402	59% 35% 6%
1	R	402	58% 37% 6%
1	S	402	58% 36% 6%
1	T	402	58% 36% 6%
1	U	402	58% 36% 6%
1	V	402	58% 37% 6%
1	W	402	57% 38% 6%
1	X	402	57% 37% 6%
1	Y	402	59% 36% 6%
1	Z	402	59% 35% 6%
1	a	402	58% 36% 6%
1	b	402	58% 36% 6%
1	c	402	59% 35% 6%
1	d	402	60% 34% 6%

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Mol	Chain	Length	Quality of chain
1	e	402	58% 36% 6%
1	f	402	58% 36% 6%
1	g	402	58% 36% 6%
1	h	402	58% 36% 6%
1	i	402	59% 36% 6%
1	j	402	57% 37% 6%
1	k	402	57% 37% 6%
1	l	402	59% 35% 6%
1	m	402	58% 36% 6%
1	n	402	58% 37% 6%
1	o	402	58% 37% 6%
1	p	402	58% 37% 6%
1	q	402	59% 35% 6%
1	r	402	58% 36% 6%
1	s	402	57% 37% 6%
1	t	402	57% 37% 6%
1	u	402	57% 37% 6%
1	v	402	56% 38% 6%
1	w	402	57% 37% 6%
1	x	402	58% 36% 6%
1	y	402	58% 36% 6%
1	z	402	58% 36% 6%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 251262 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Sorting nexin 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	0	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	1	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	2	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	3	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	4	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	5	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	6	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	7	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	8	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	9	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	A	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AA	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AB	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AC	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AD	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AE	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AF	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	AG	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AH	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AI	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AJ	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AK	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AL	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AM	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AN	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AO	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AP	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AQ	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AR	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	AS	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	B	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	C	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	D	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	E	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	F	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	G	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	H	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	I	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	J	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	K	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	L	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	M	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	N	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	O	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	P	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	Q	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	R	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	S	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	T	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	U	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	V	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	W	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	X	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	Y	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	Z	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	a	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	b	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	c	379	Total 3102	C 1973	N 536	O 583	S 10	0	0
1	d	379	Total 3102	C 1973	N 536	O 583	S 10	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	e	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	f	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	g	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	h	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	i	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	j	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	k	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	l	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	m	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	n	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	o	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	p	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	q	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	r	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	s	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	t	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	u	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	v	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	w	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	x	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	y	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		

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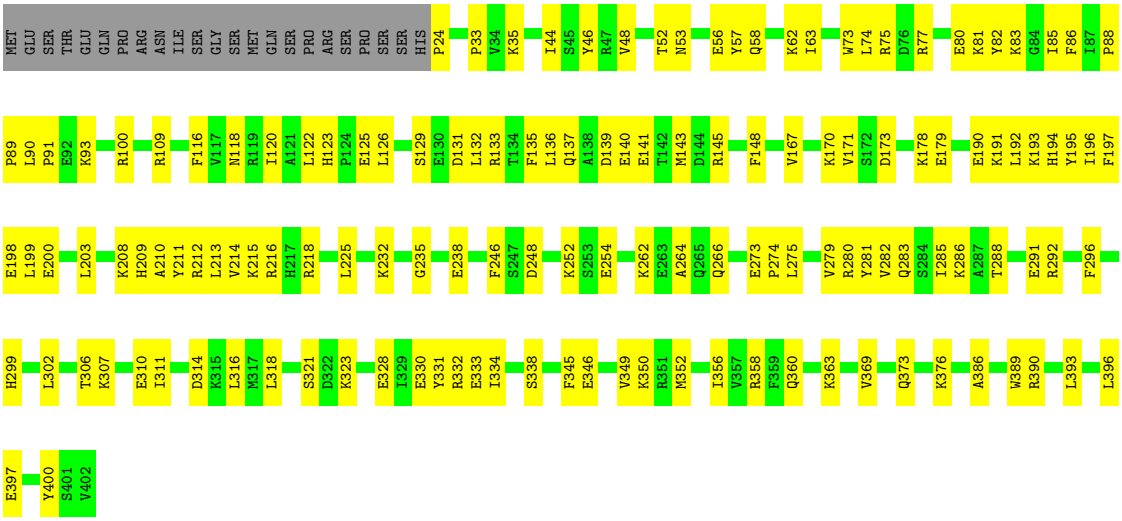
Mol	Chain	Residues	Atoms					AltConf	Trace
1	z	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		

3 Residue-property plots (i)

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

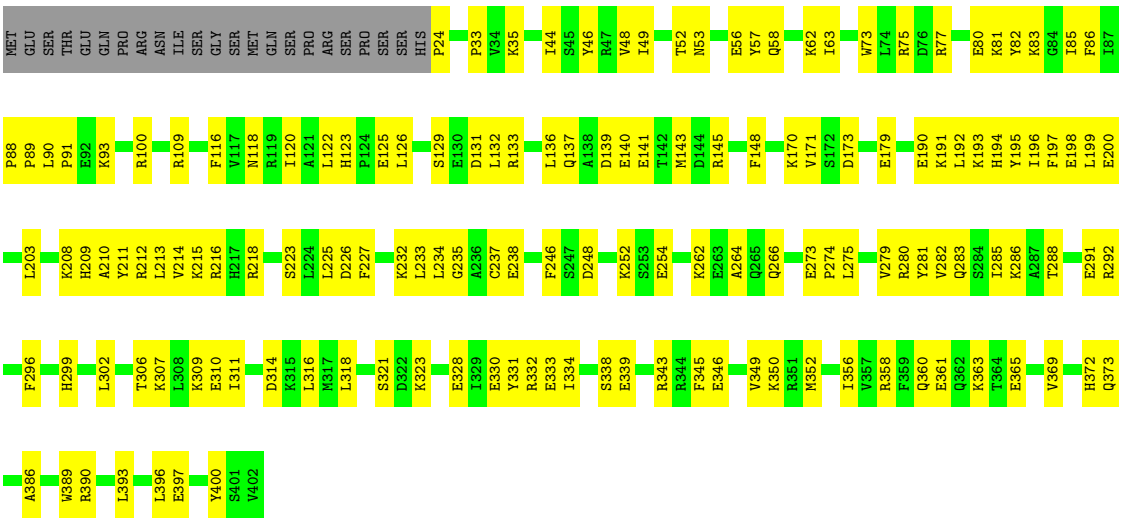
- Molecule 1: Sorting nexin 1

Chain 0:



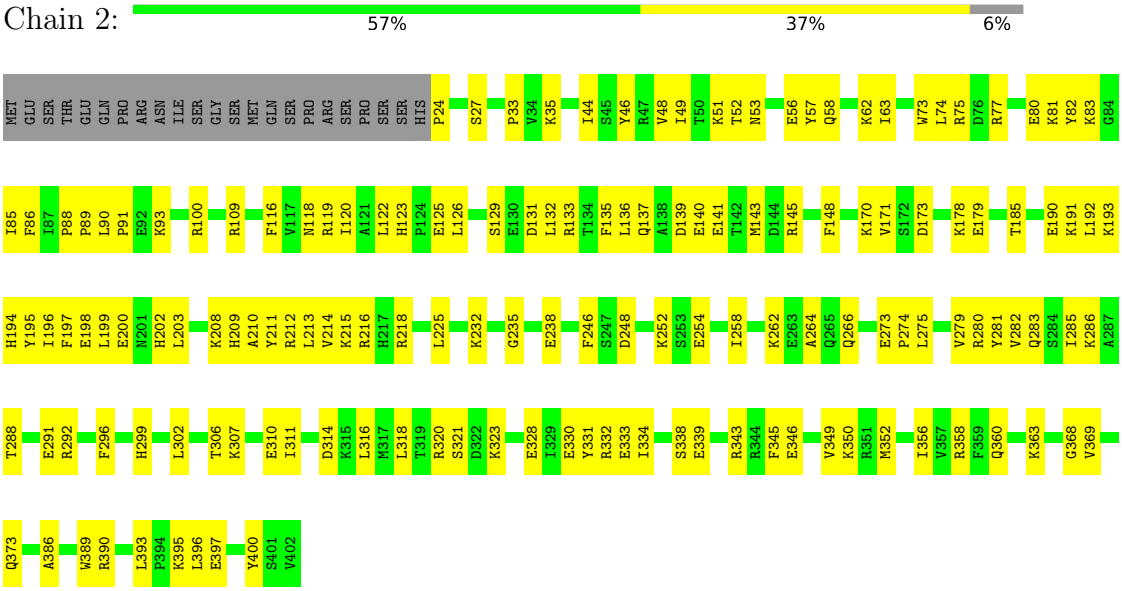
- Molecule 1: Sorting nexin 1

Chain 1:



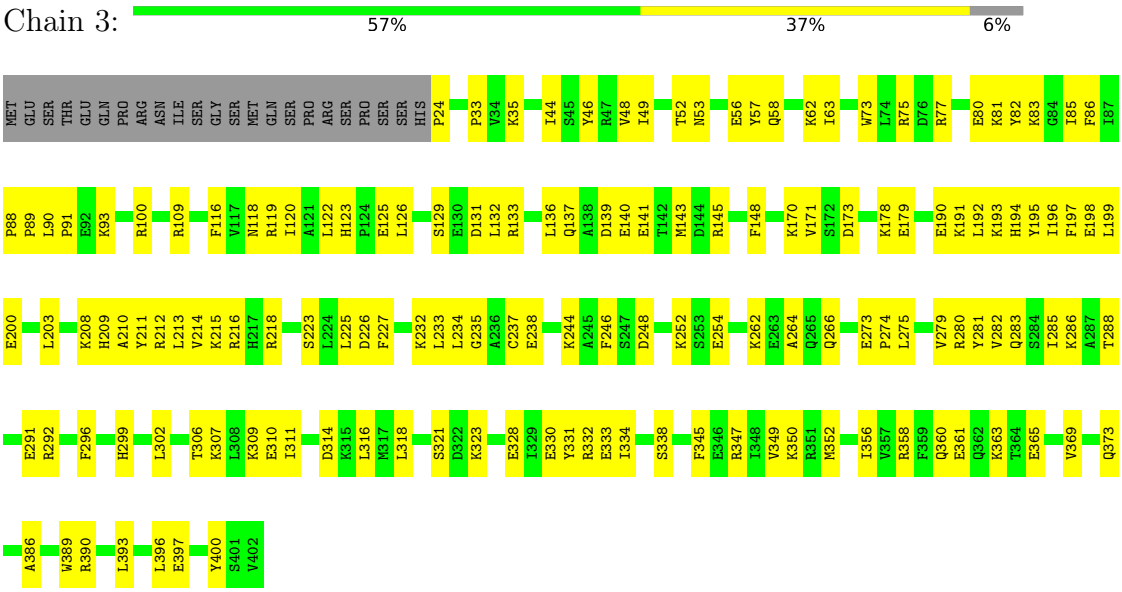
• Molecule 1: Sorting nexin 1

Chain 2:



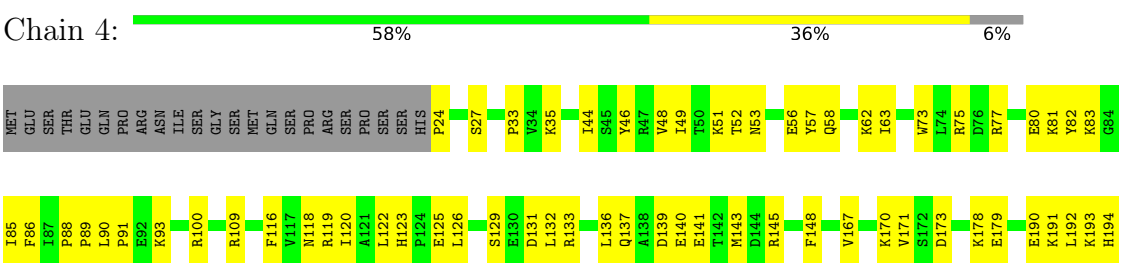
• Molecule 1: Sorting nexin 1

Chain 3:



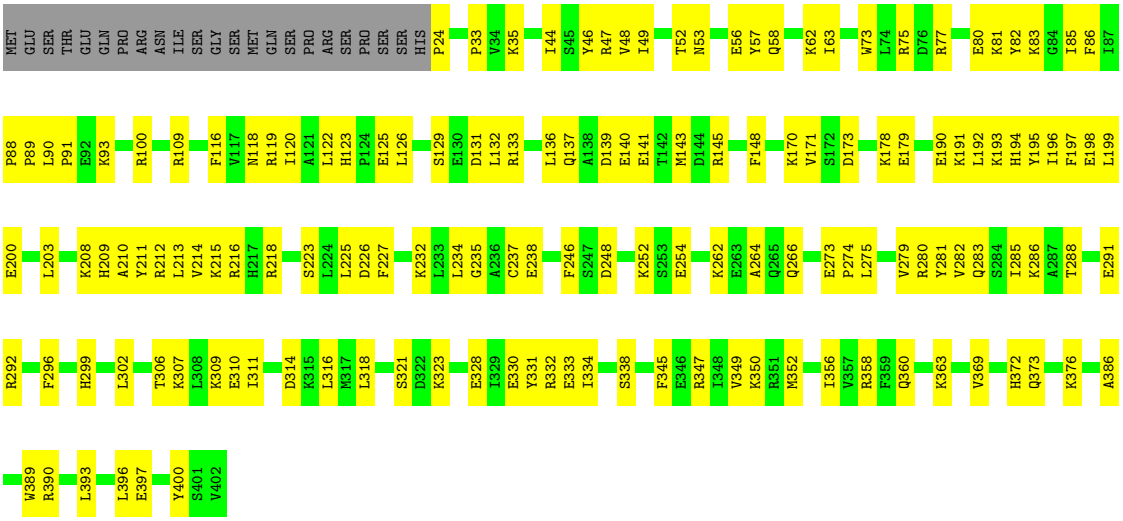
• Molecule 1: Sorting nexin 1

Chain 4:



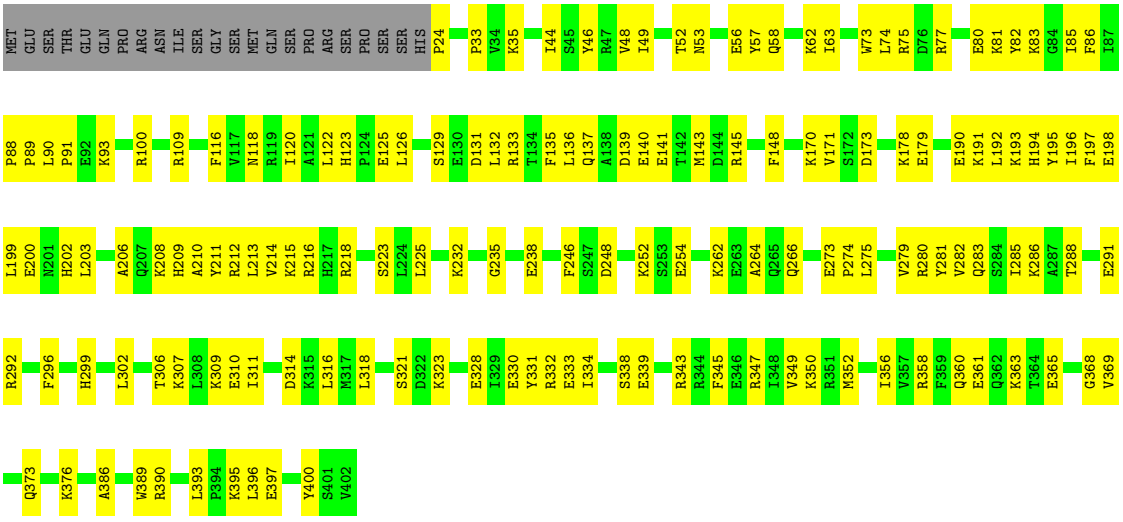
• Molecule 1: Sorting nexin 1

Chain 5:



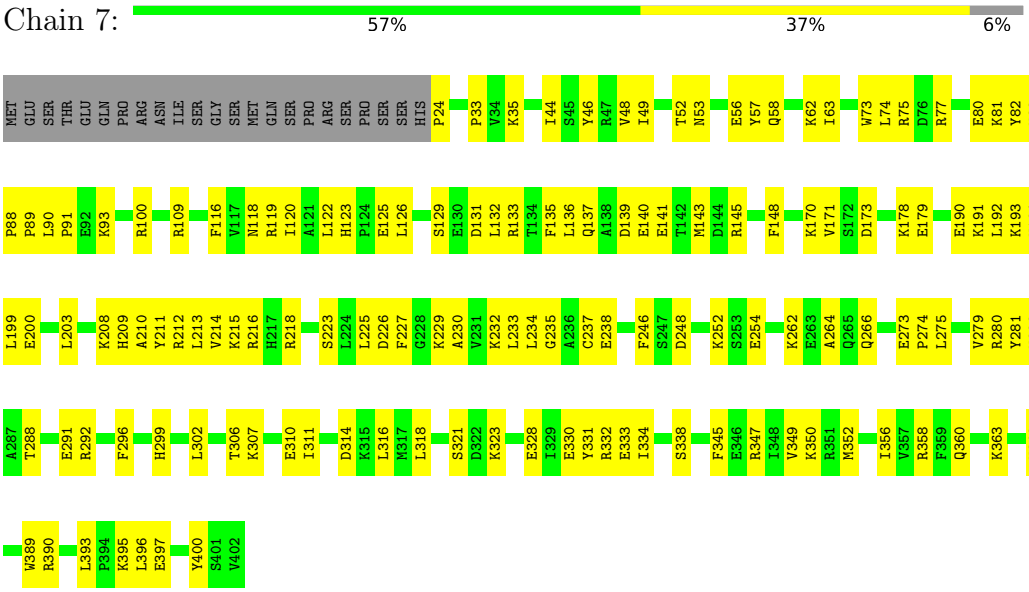
• Molecule 1: Sorting nexin 1

Chain 6:



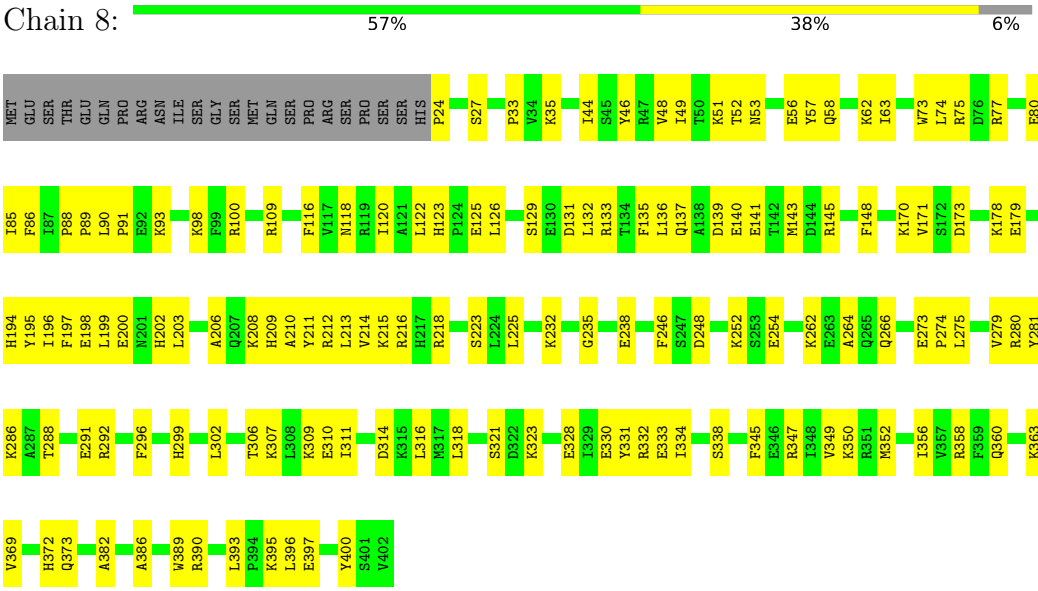
• Molecule 1: Sorting nexin 1

Chain 7:



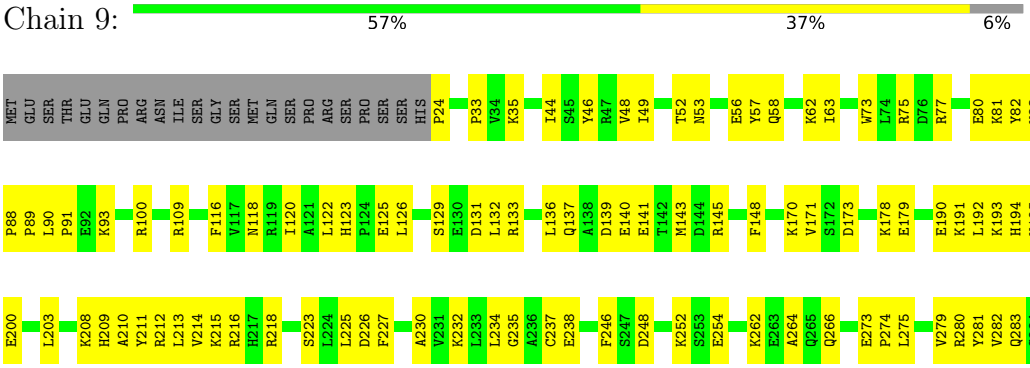
• Molecule 1: Sorting nexin 1

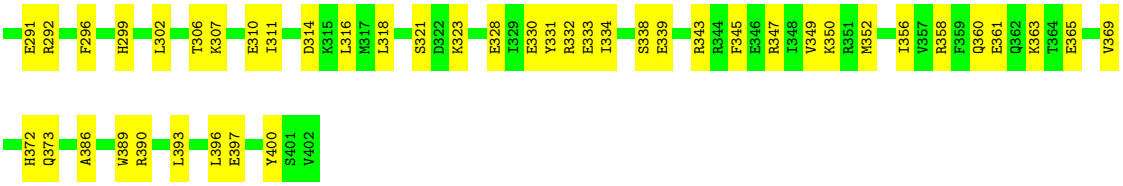
Chain 8:



• Molecule 1: Sorting nexin 1

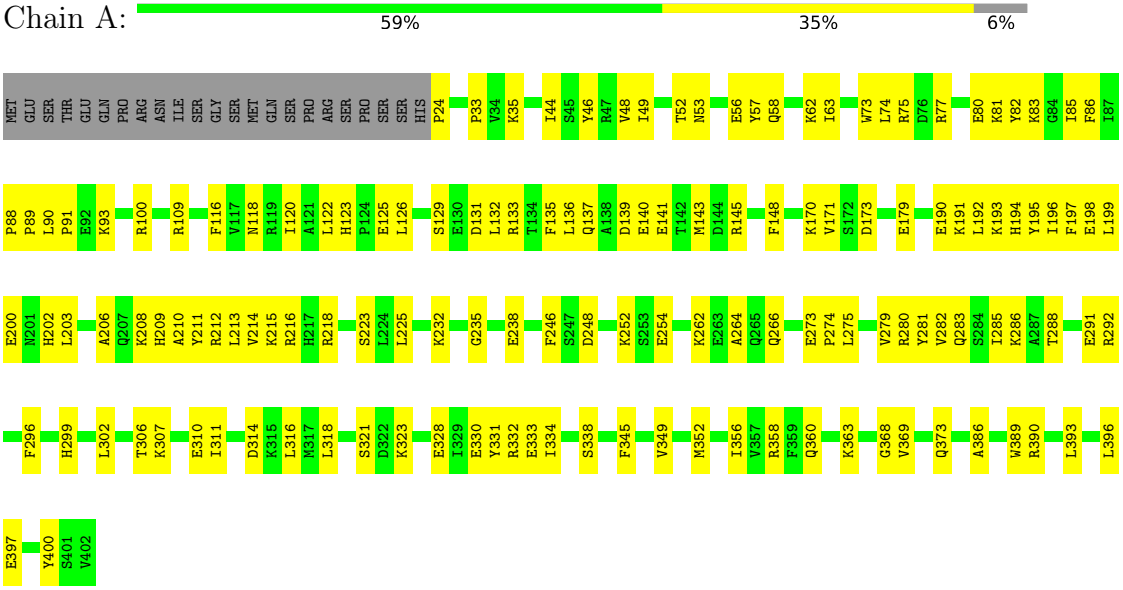
Chain 9:





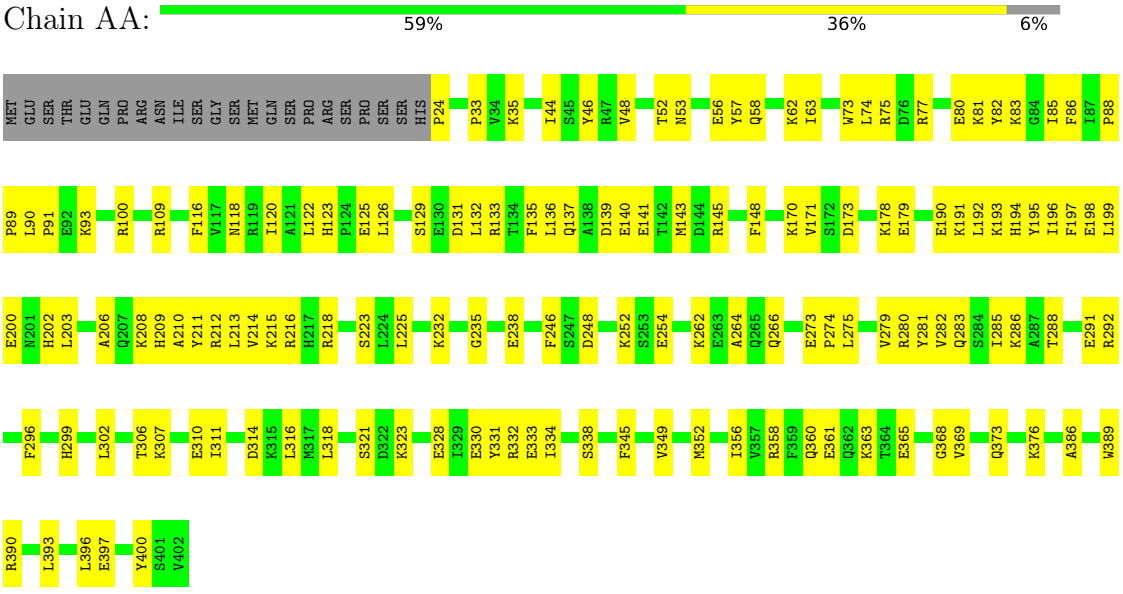
• Molecule 1: Sorting nexin 1

Chain A:



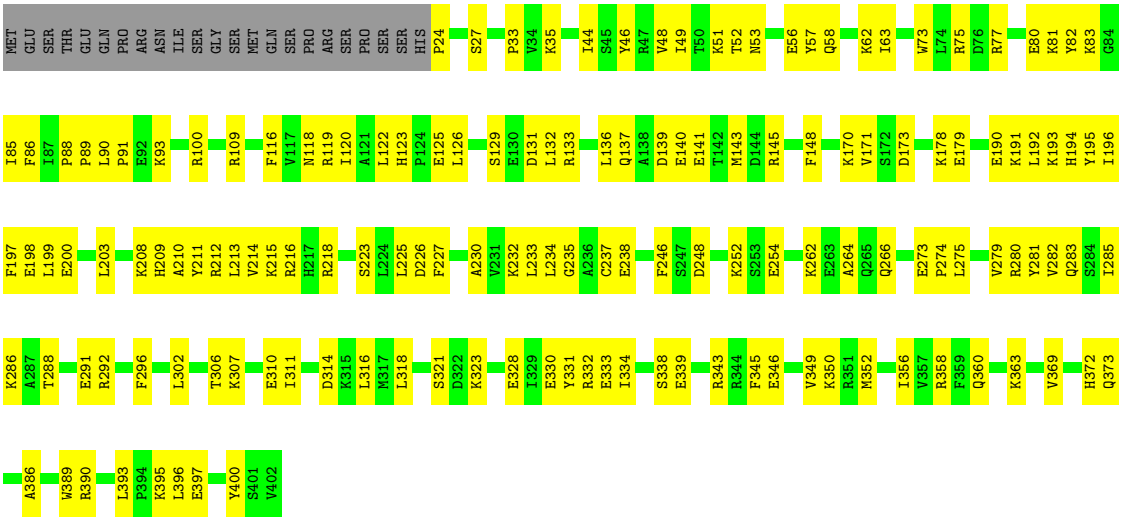
• Molecule 1: Sorting nexin 1

Chain AA:



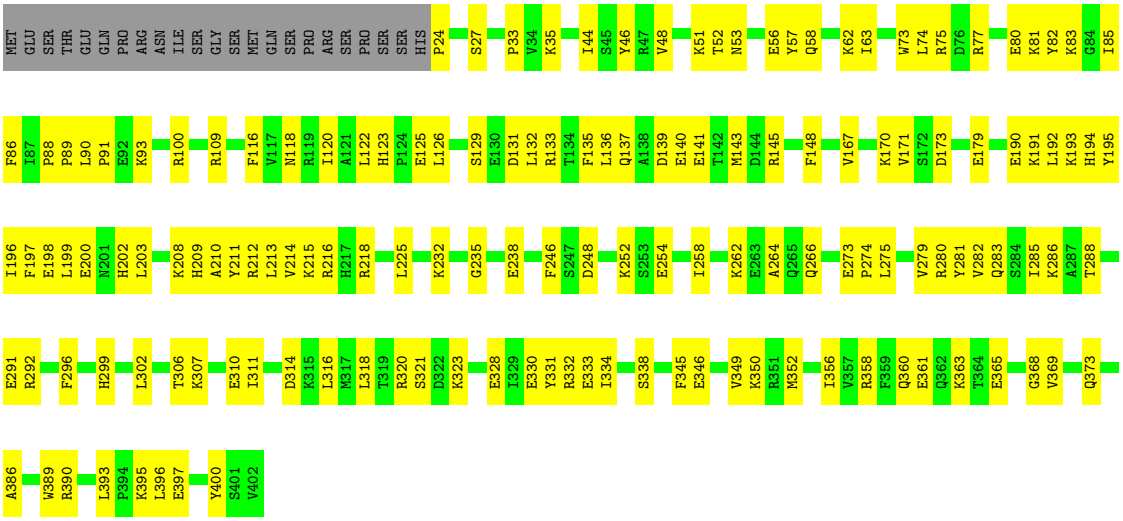
• Molecule 1: Sorting nexin 1

Chain AB:



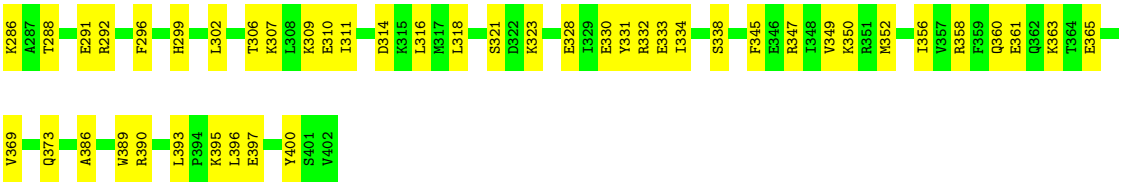
• Molecule 1: Sorting nexin 1

Chain AC:



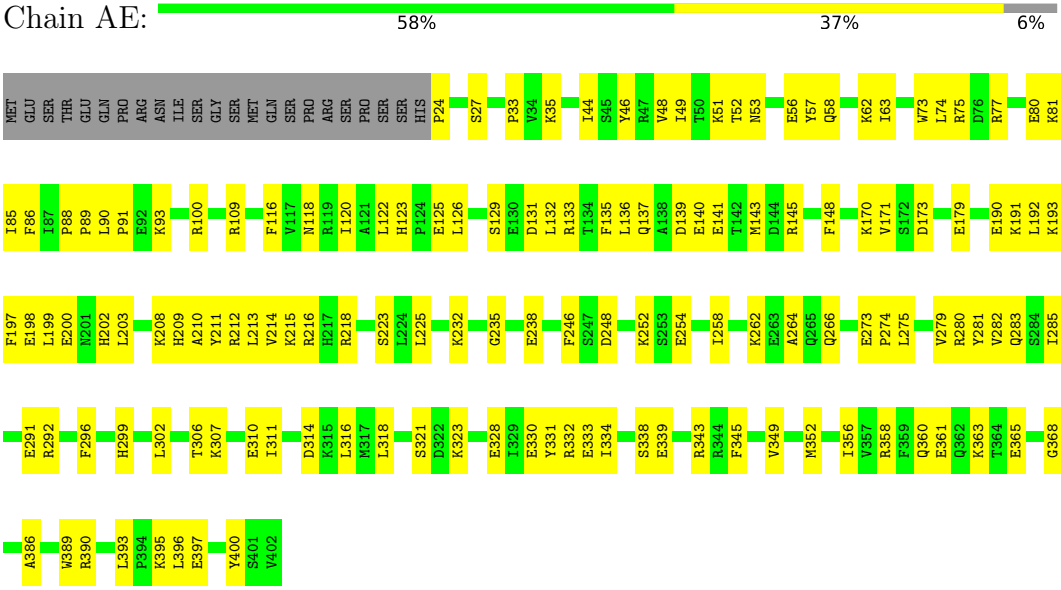
• Molecule 1: Sorting nexin 1

Chain AD:



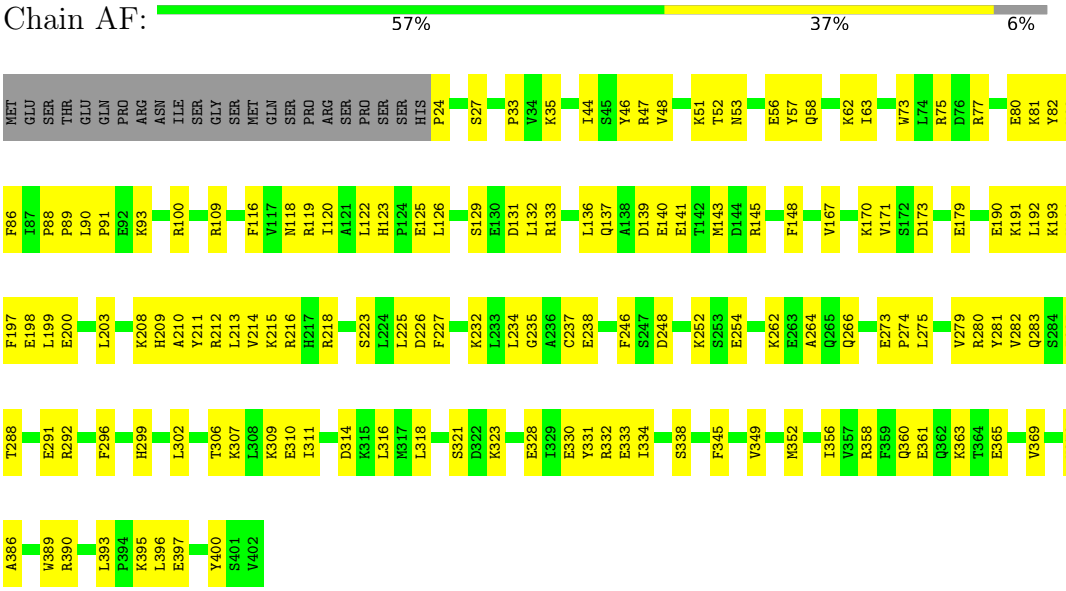
• Molecule 1: Sorting nexin 1

Chain AE:



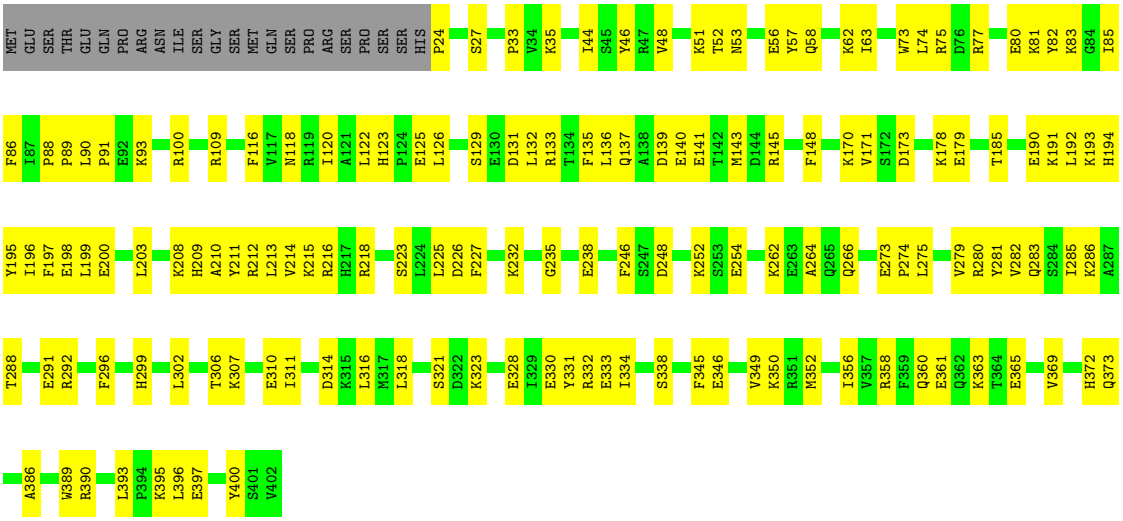
• Molecule 1: Sorting nexin 1

Chain AF:



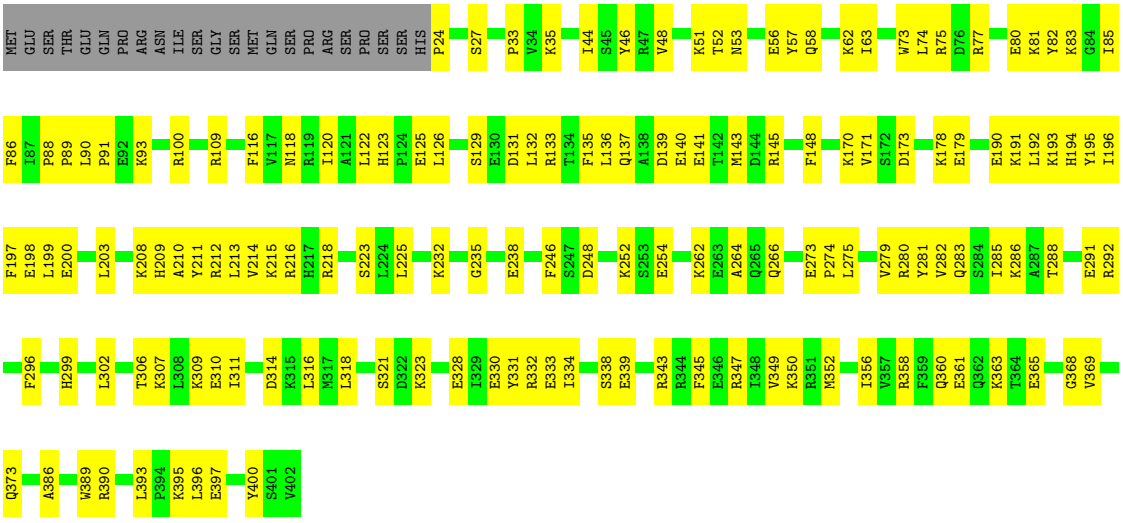
• Molecule 1: Sorting nexin 1

Chain AG:



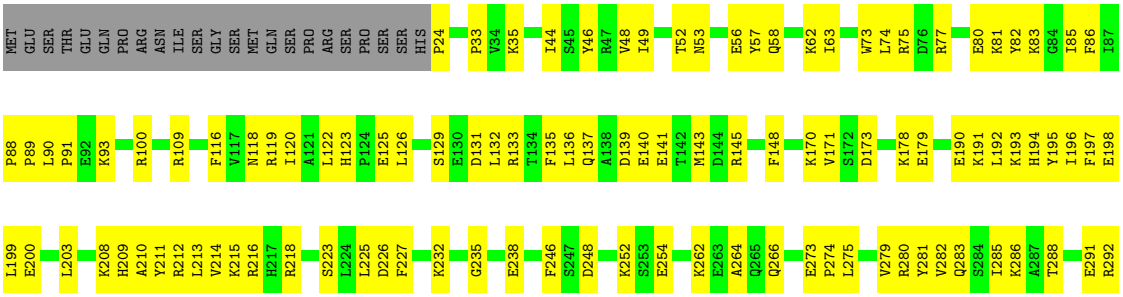
• Molecule 1: Sorting nexin 1

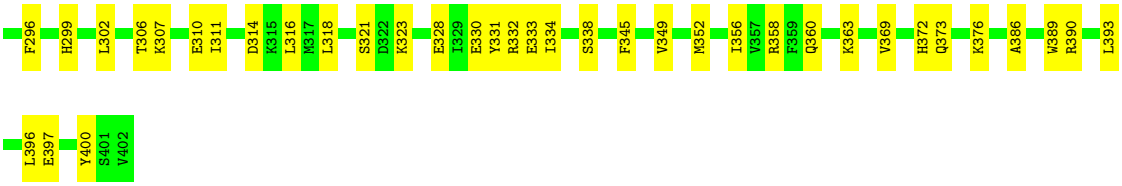
Chain AH:



• Molecule 1: Sorting nexin 1

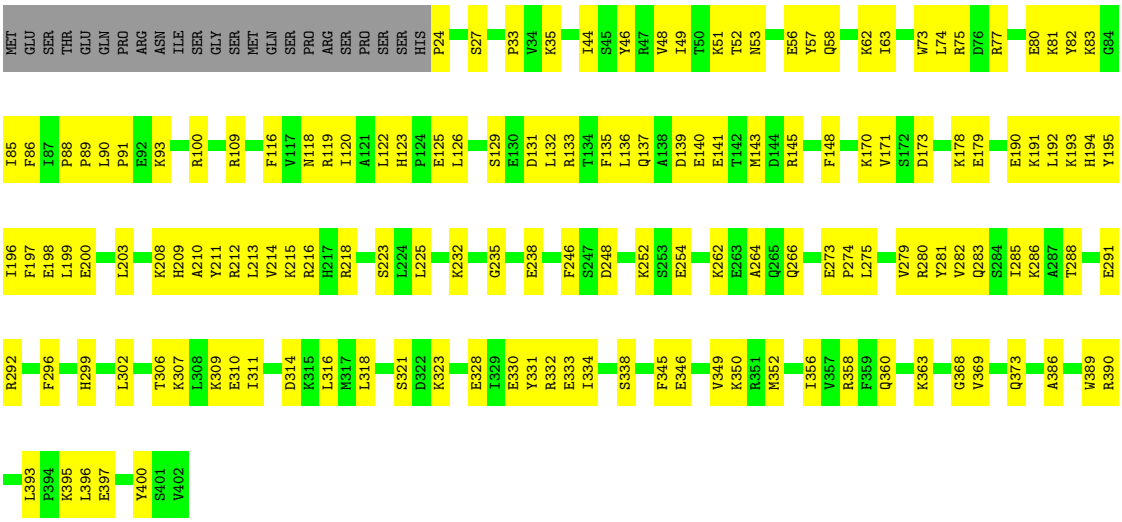
Chain AI:





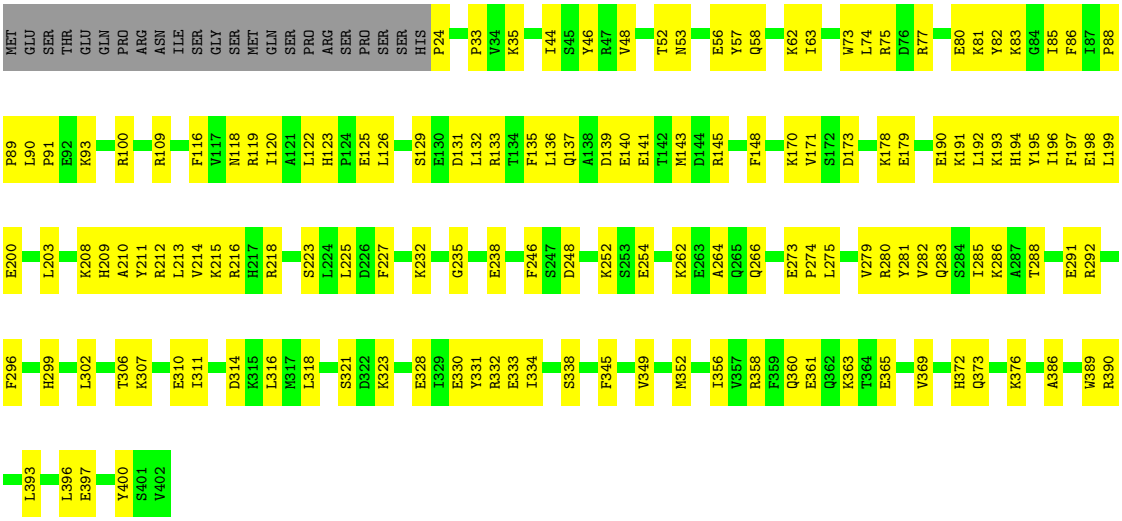
• Molecule 1: Sorting nexin 1

Chain AJ:



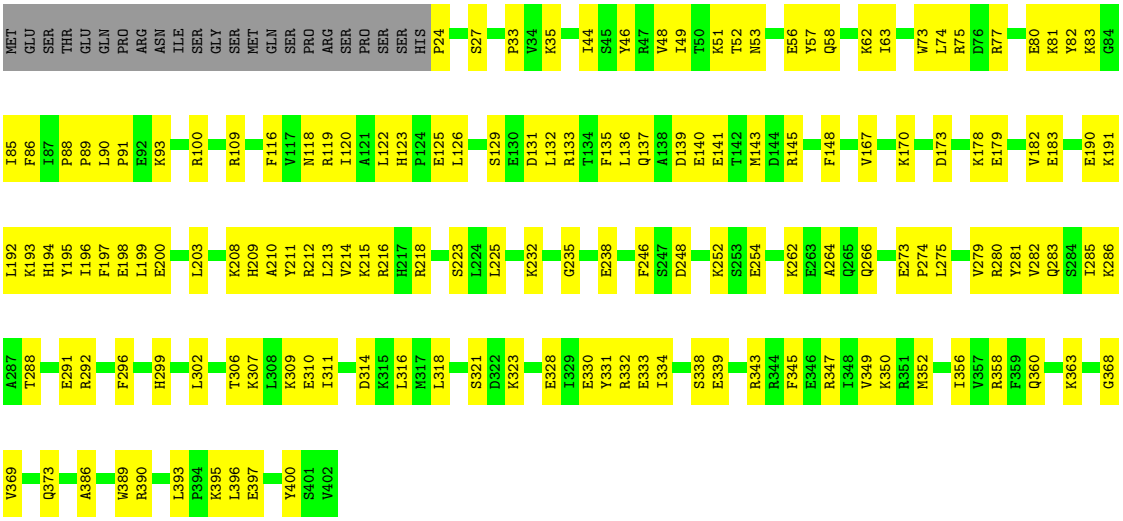
• Molecule 1: Sorting nexin 1

Chain AK:



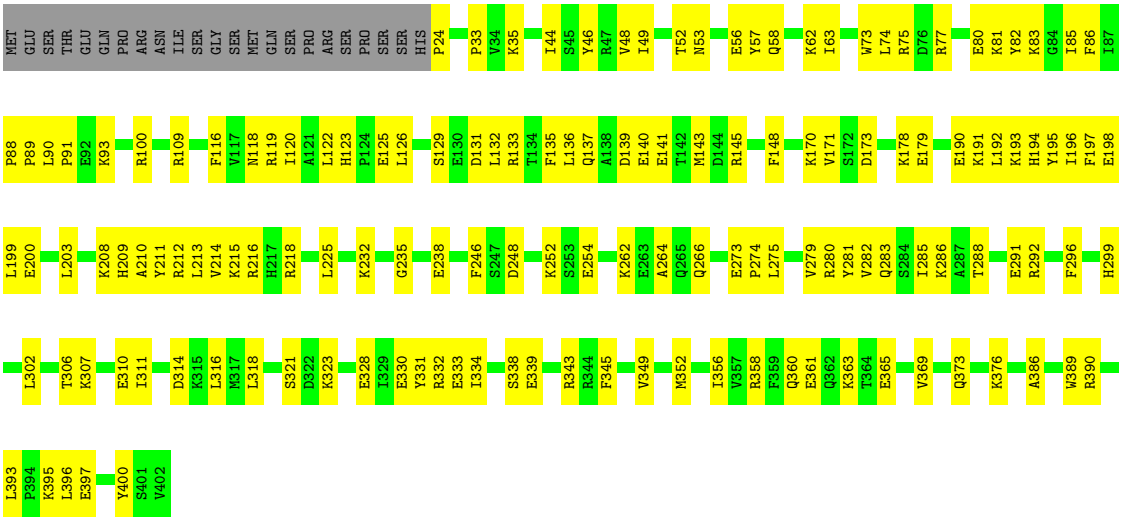
• Molecule 1: Sorting nexin 1

Chain AL:



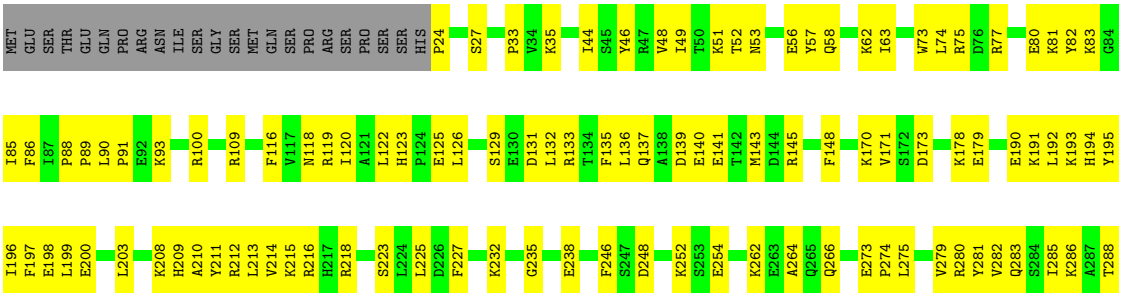
• Molecule 1: Sorting nexin 1

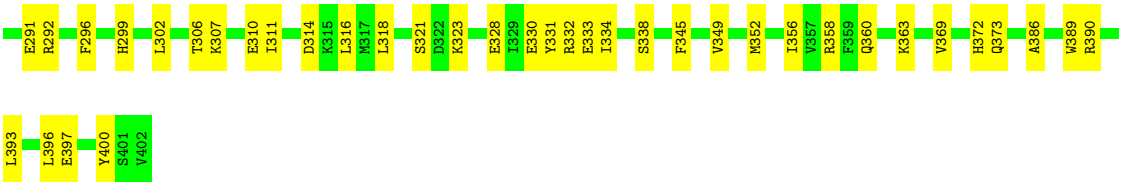
Chain AM:



• Molecule 1: Sorting nexin 1

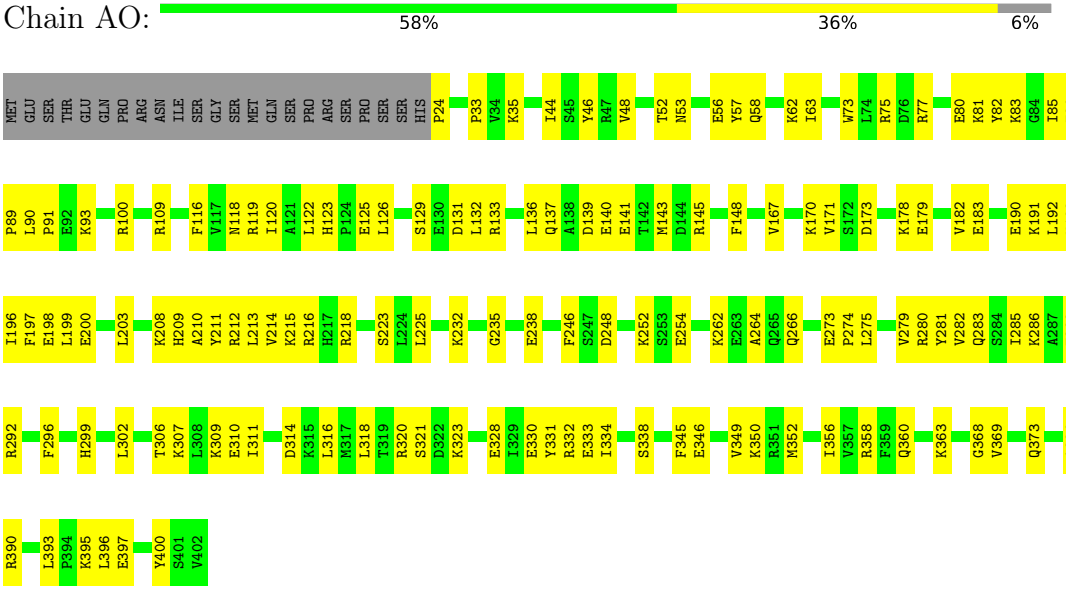
Chain AN:





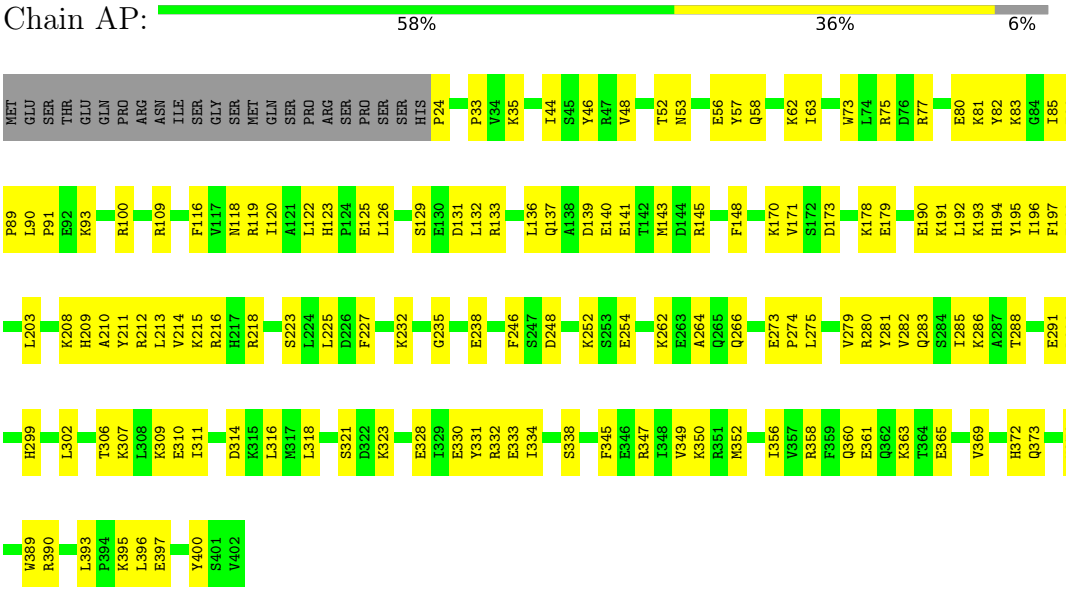
• Molecule 1: Sorting nexin 1

Chain AO:



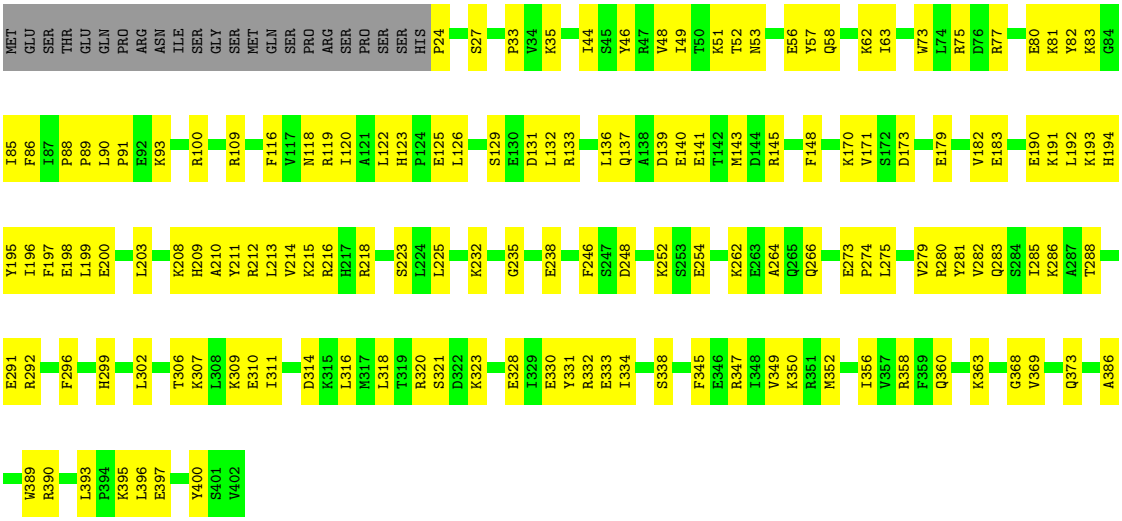
• Molecule 1: Sorting nexin 1

Chain AP:



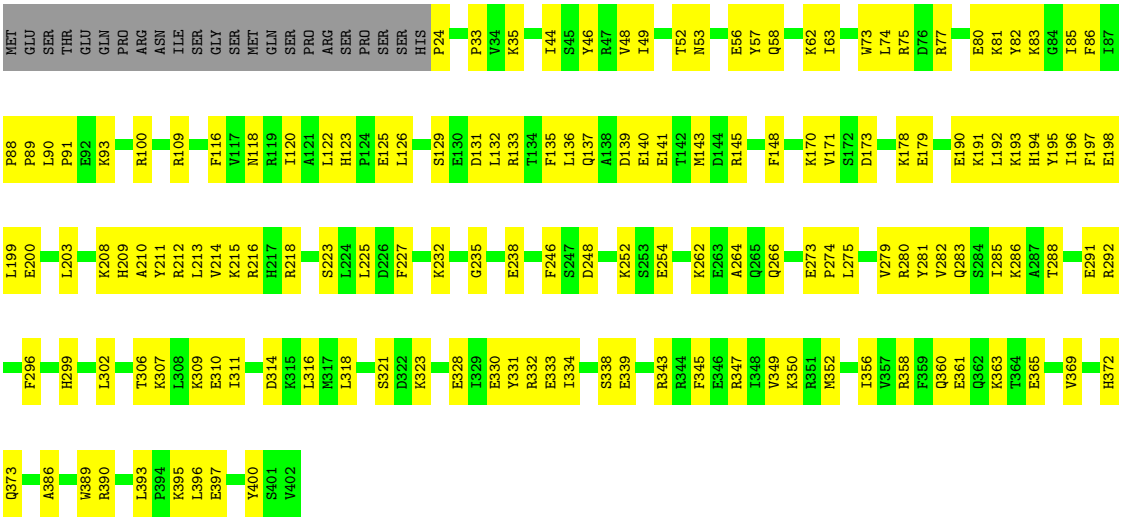
• Molecule 1: Sorting nexin 1

Chain AQ:



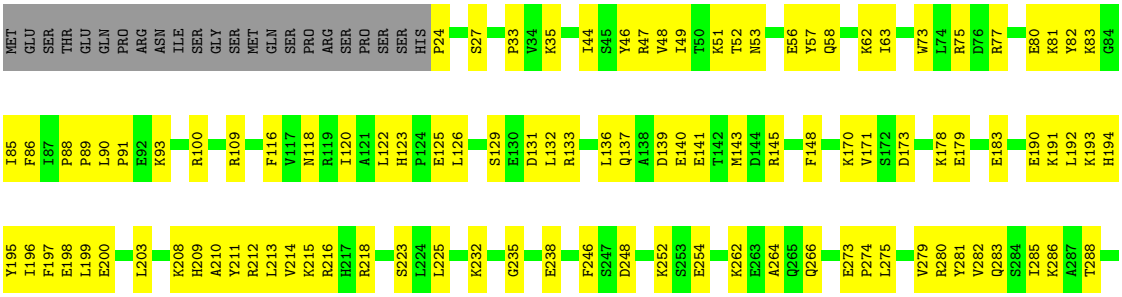
• Molecule 1: Sorting nexin 1

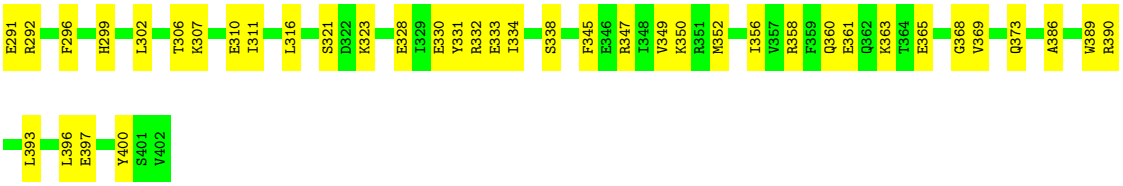
Chain AR:



• Molecule 1: Sorting nexin 1

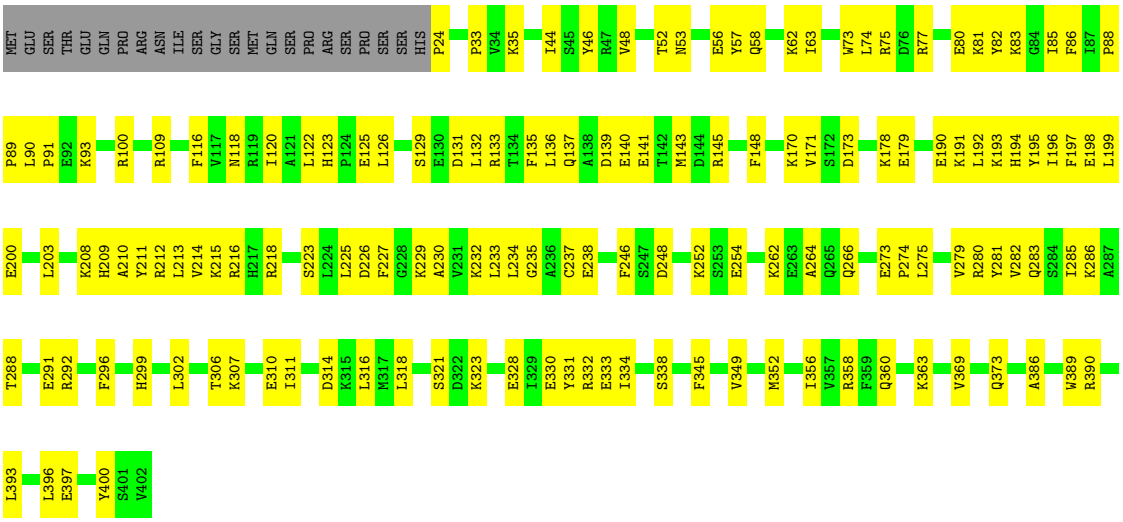
Chain AS:





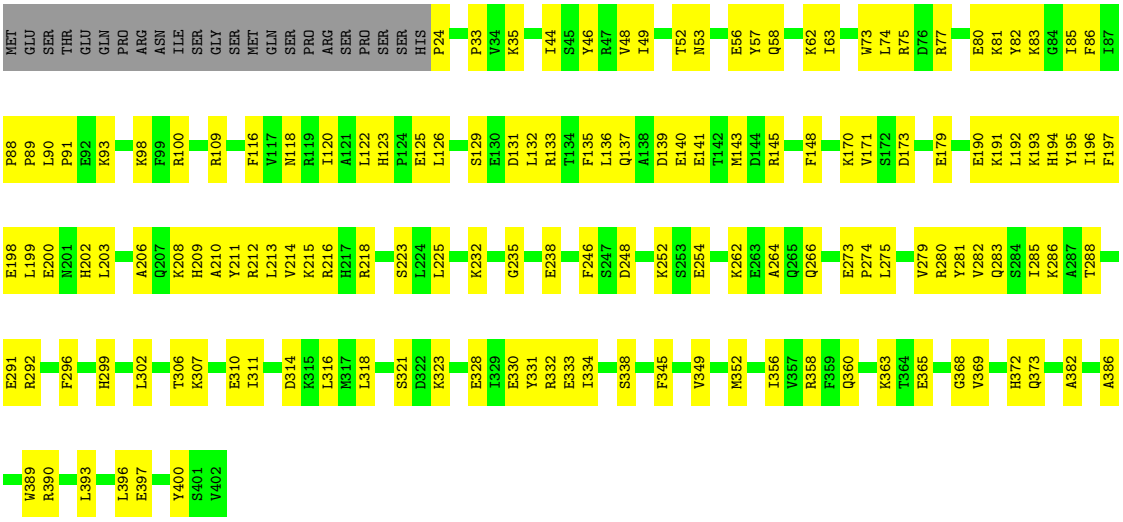
• Molecule 1: Sorting nexin 1

Chain B:



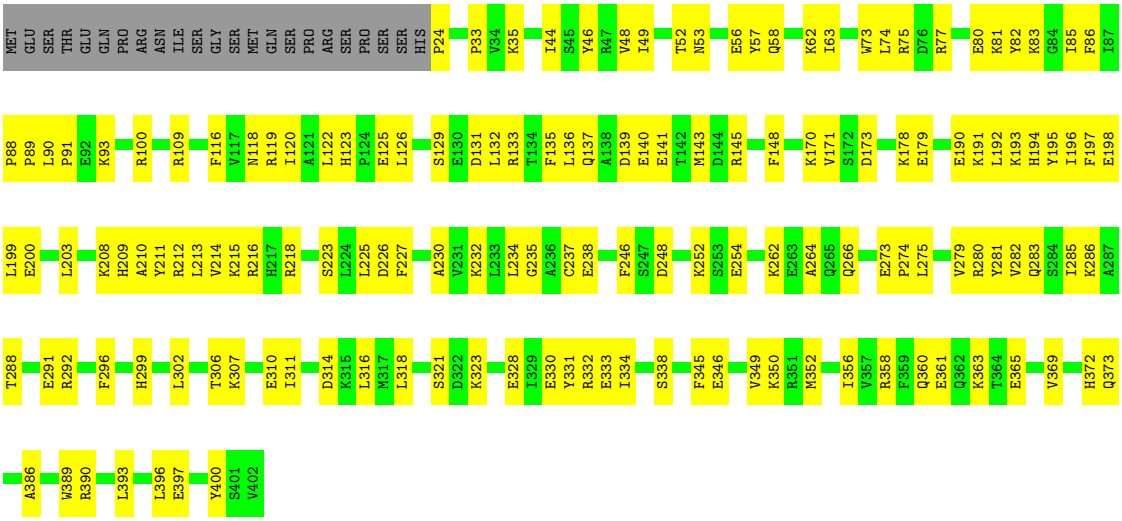
• Molecule 1: Sorting nexin 1

Chain C:



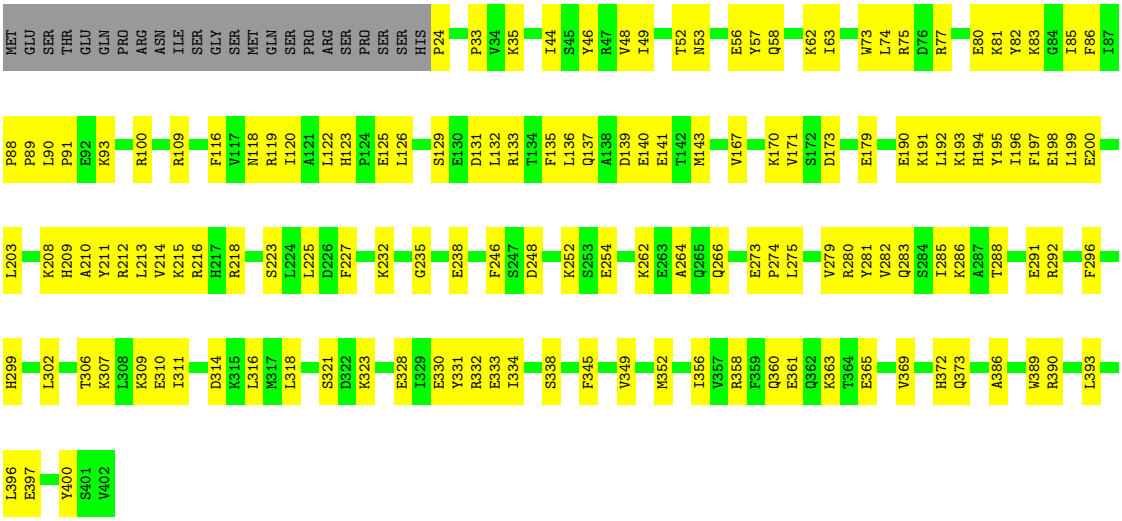
• Molecule 1: Sorting nexin 1

Chain D:



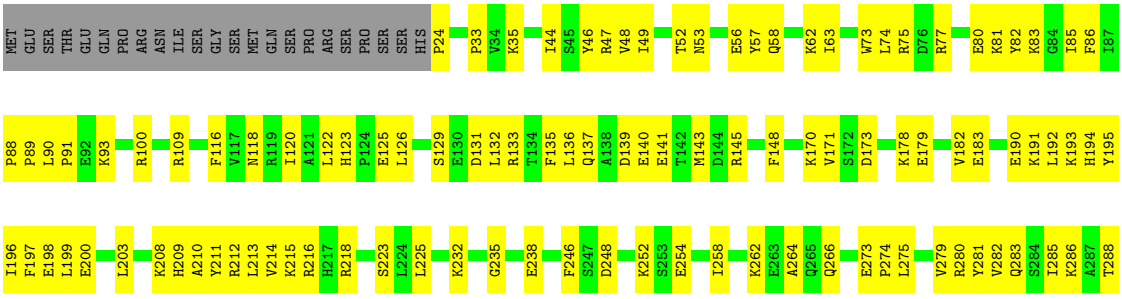
• Molecule 1: Sorting nexin 1

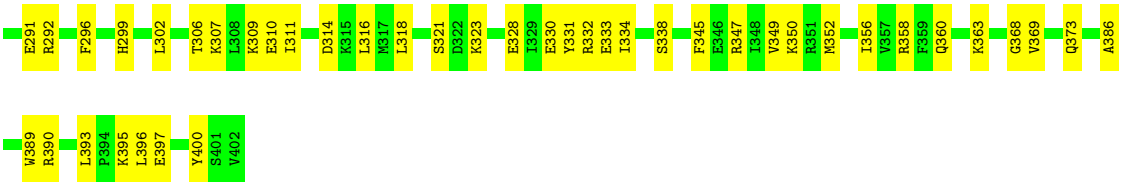
Chain E:



• Molecule 1: Sorting nexin 1

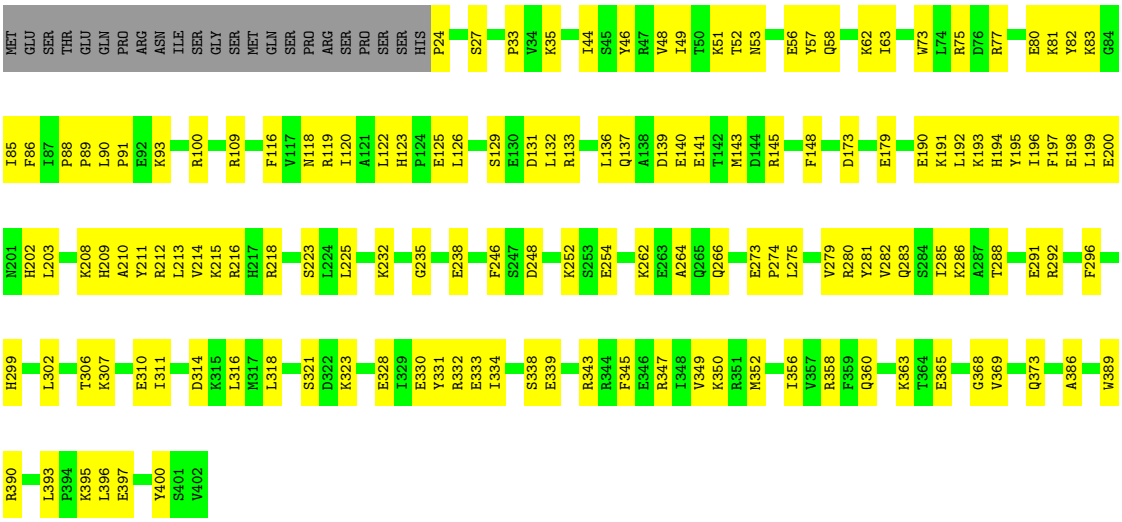
Chain F:





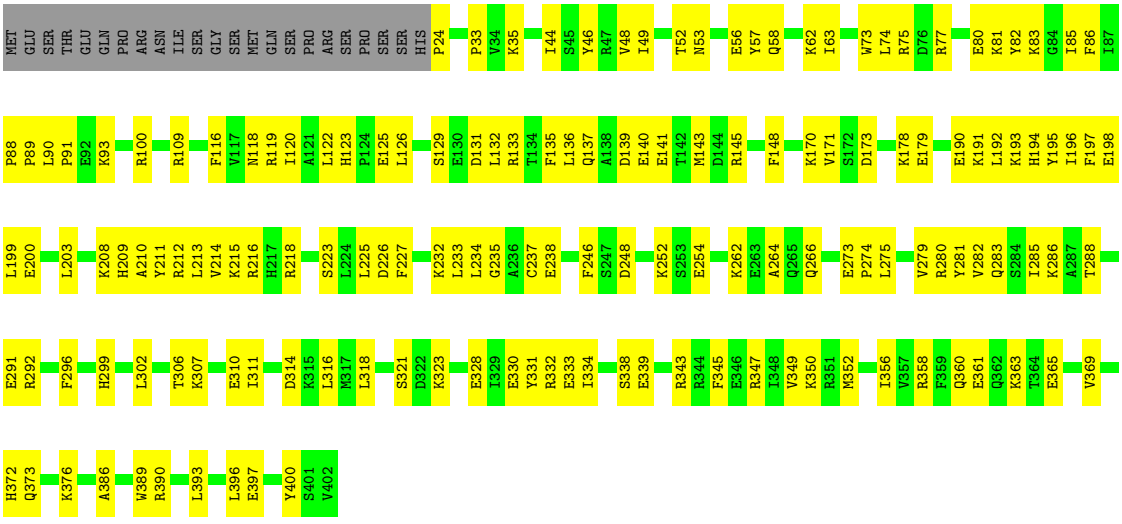
• Molecule 1: Sorting nexin 1

Chain G:



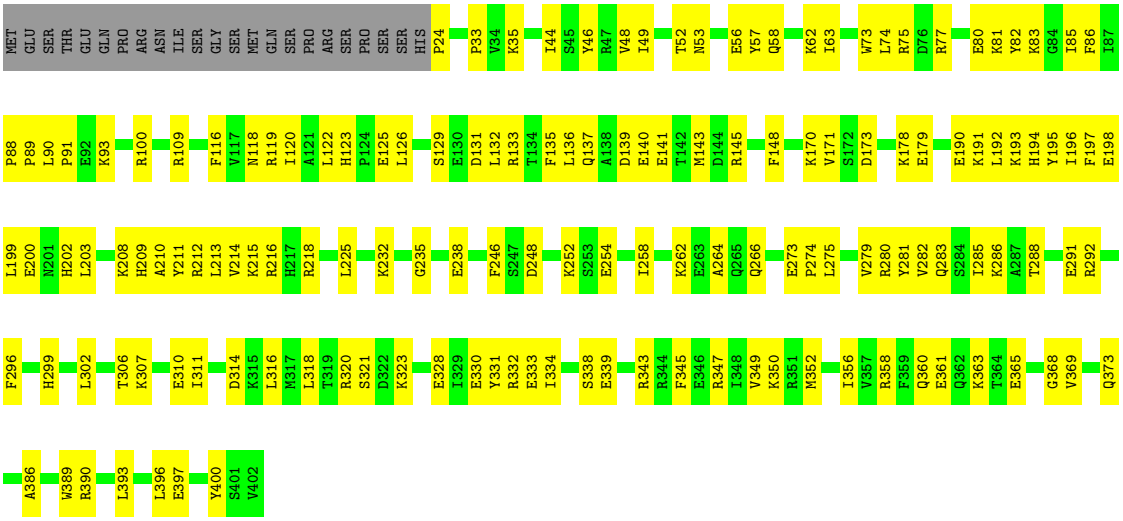
• Molecule 1: Sorting nexin 1

Chain H:



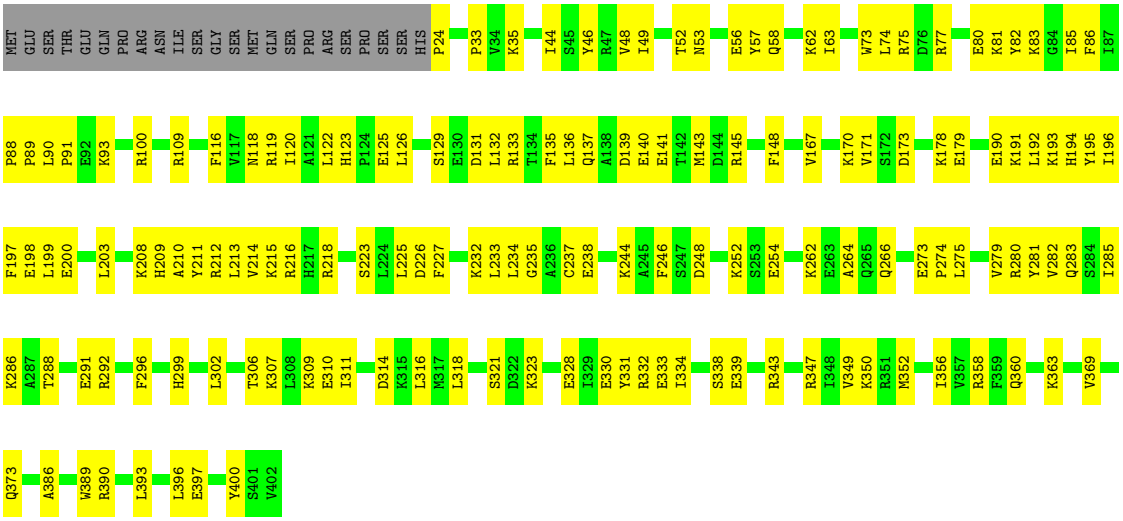
• Molecule 1: Sorting nexin 1

Chain I:



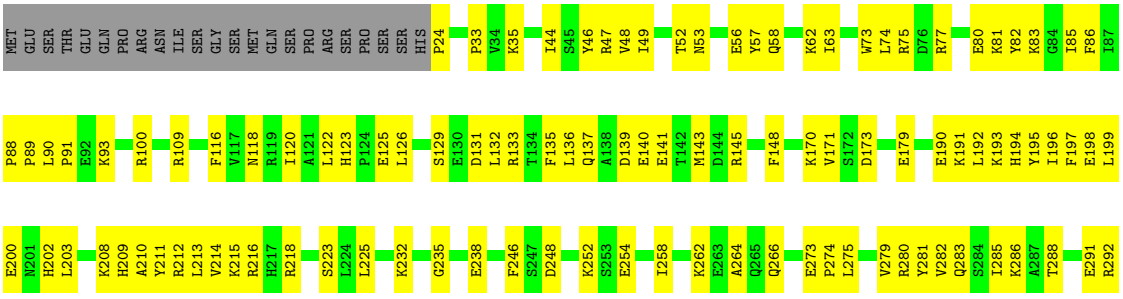
• Molecule 1: Sorting nexin 1

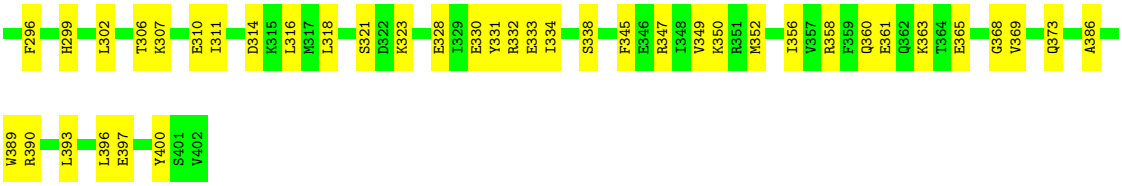
Chain J:



• Molecule 1: Sorting nexin 1

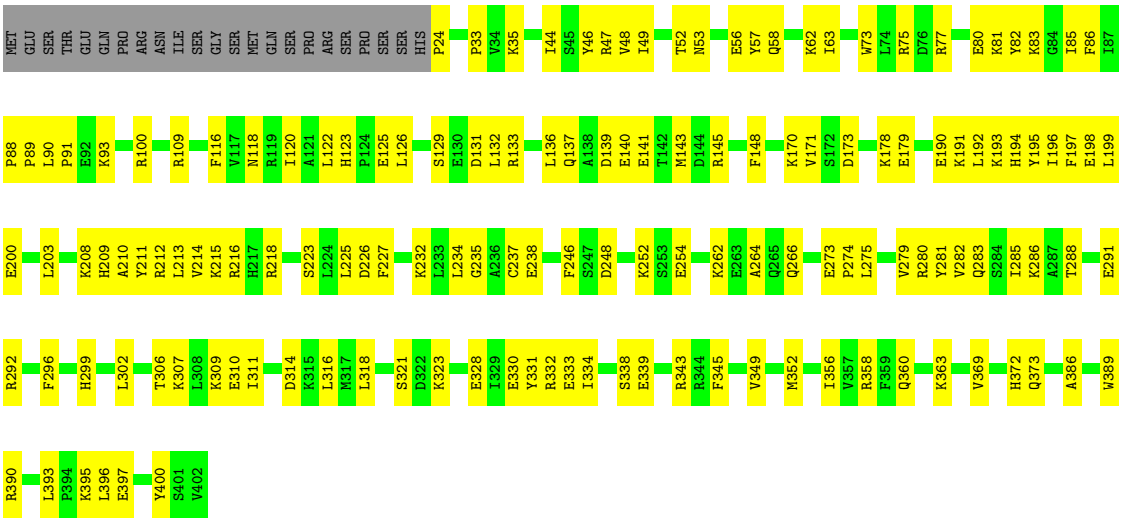
Chain K:





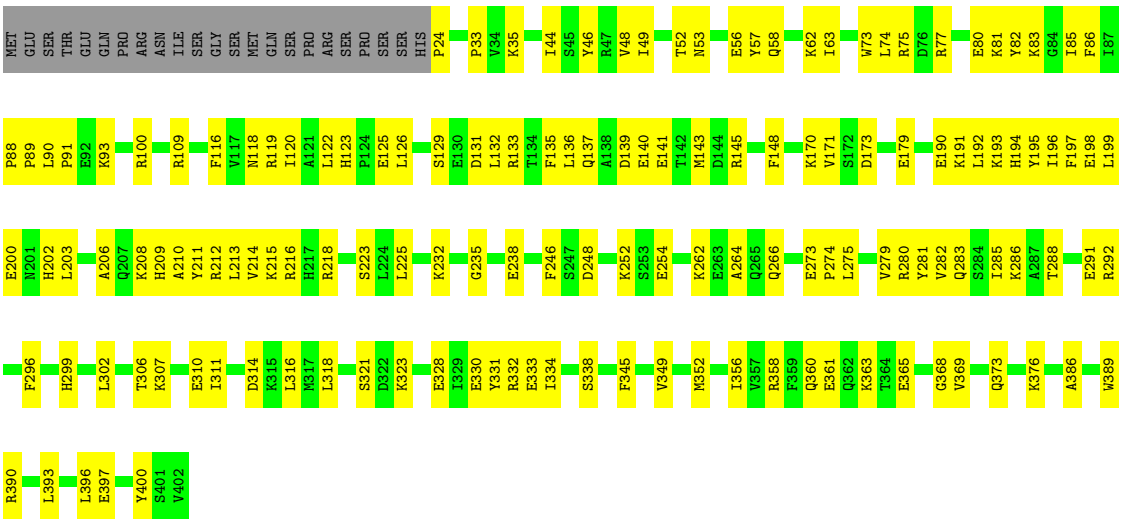
• Molecule 1: Sorting nexin 1

Chain L:



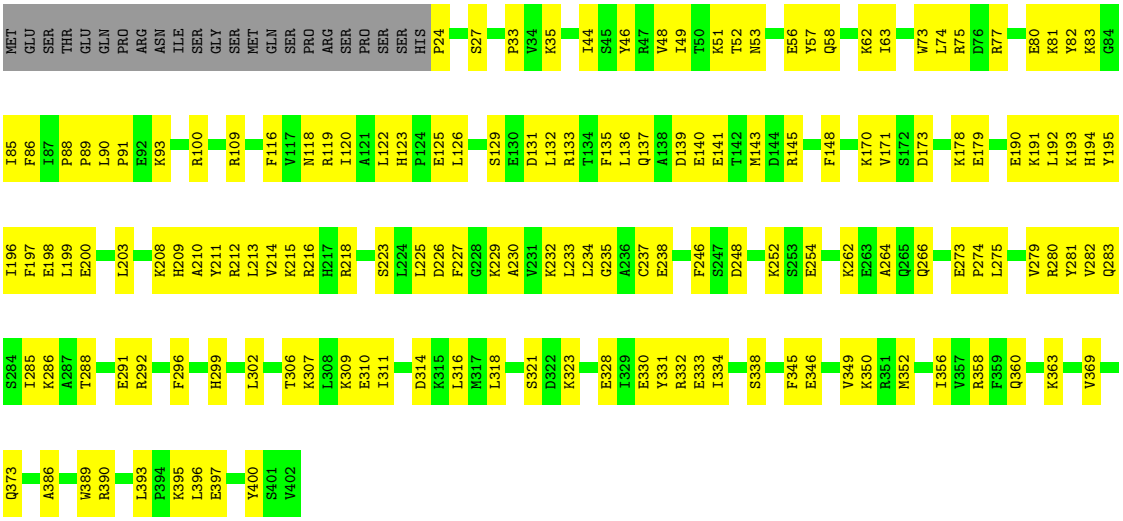
• Molecule 1: Sorting nexin 1

Chain M:



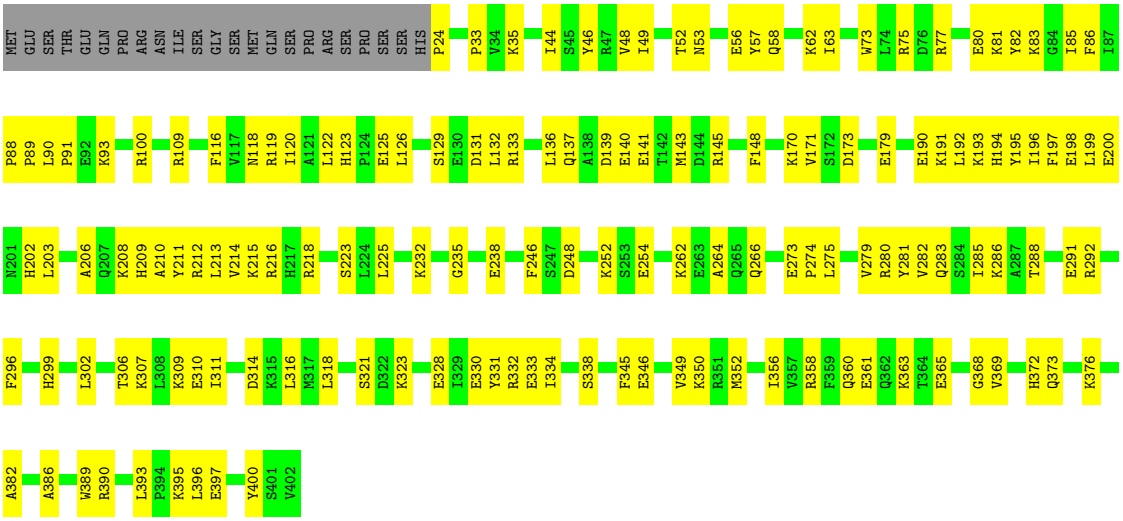
• Molecule 1: Sorting nexin 1

Chain N:



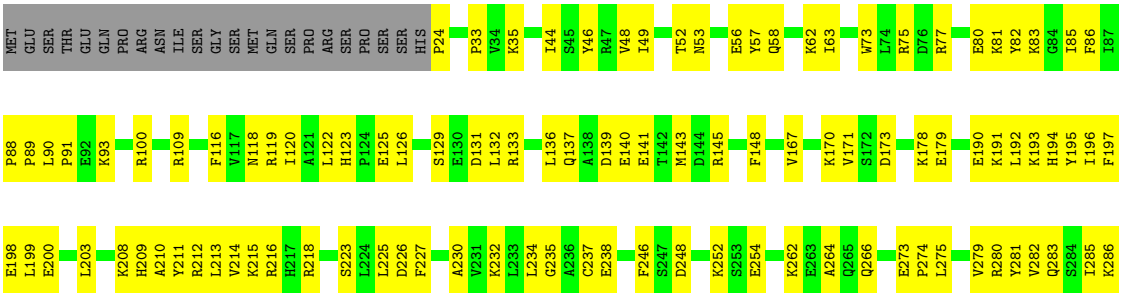
• Molecule 1: Sorting nexin 1

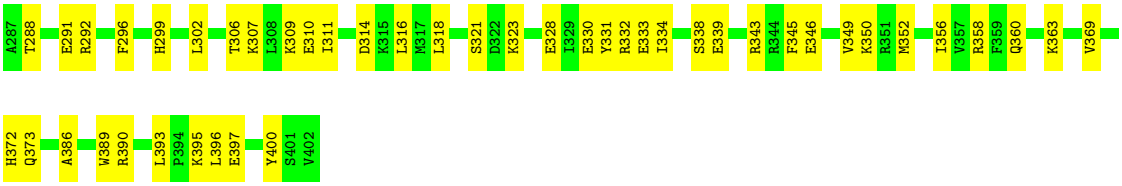
Chain O:



• Molecule 1: Sorting nexin 1

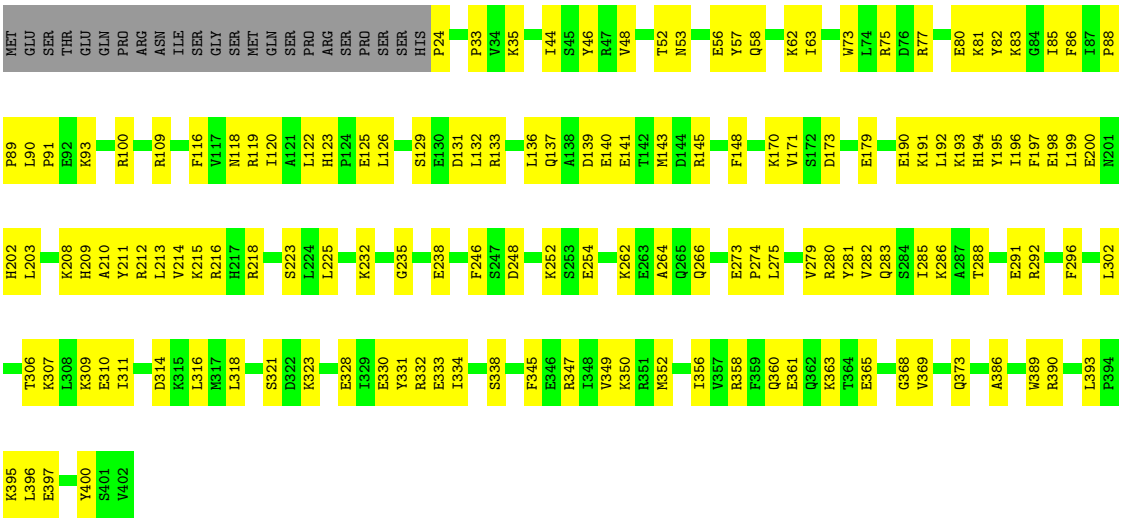
Chain P:





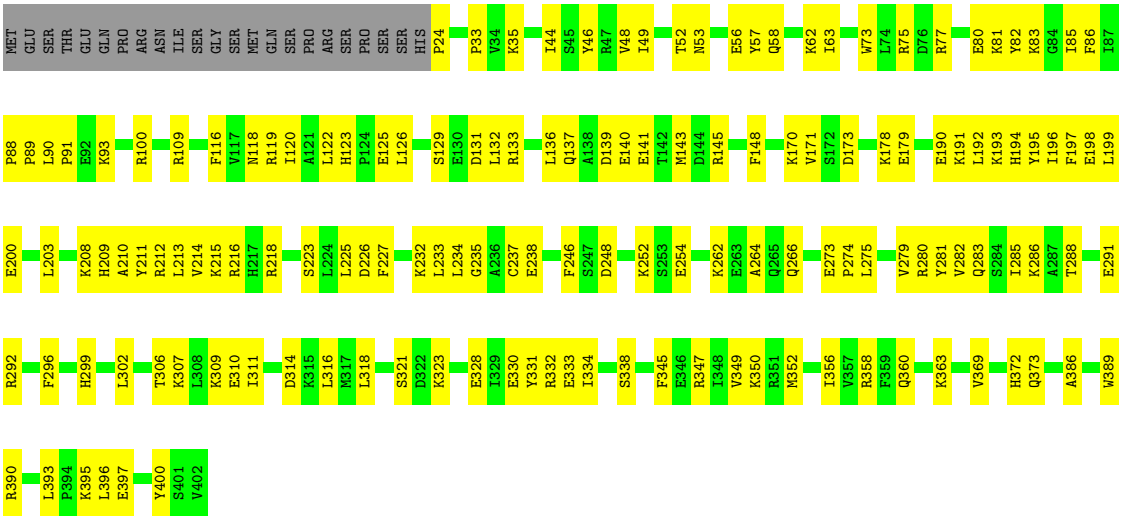
• Molecule 1: Sorting nexin 1

Chain Q:



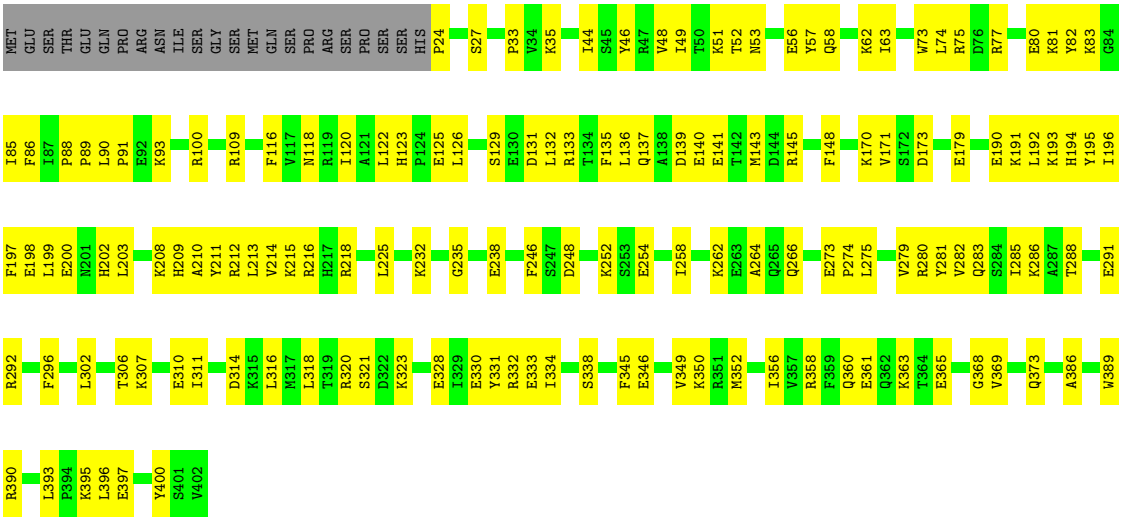
• Molecule 1: Sorting nexin 1

Chain R:



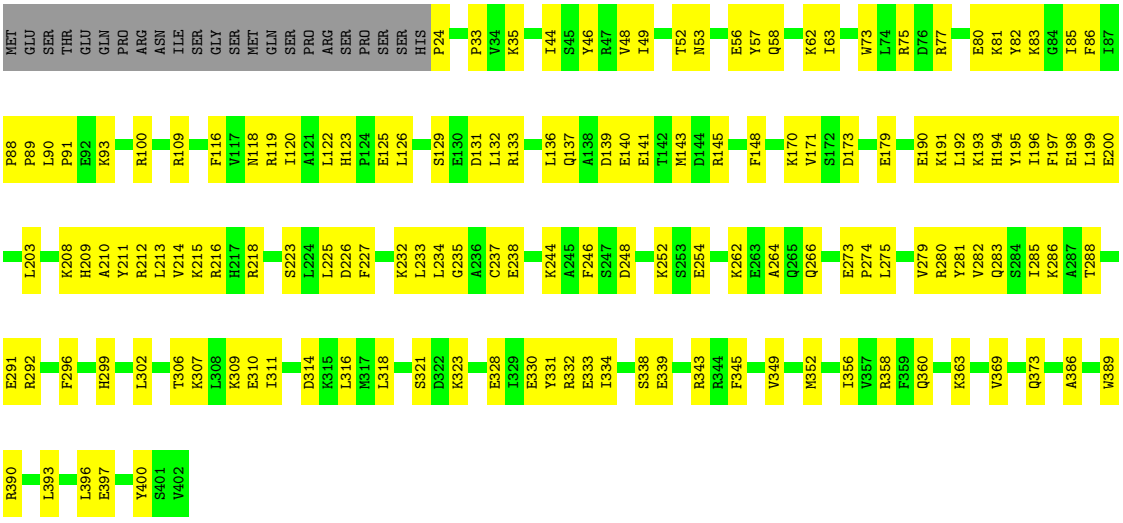
• Molecule 1: Sorting nexin 1

Chain S:



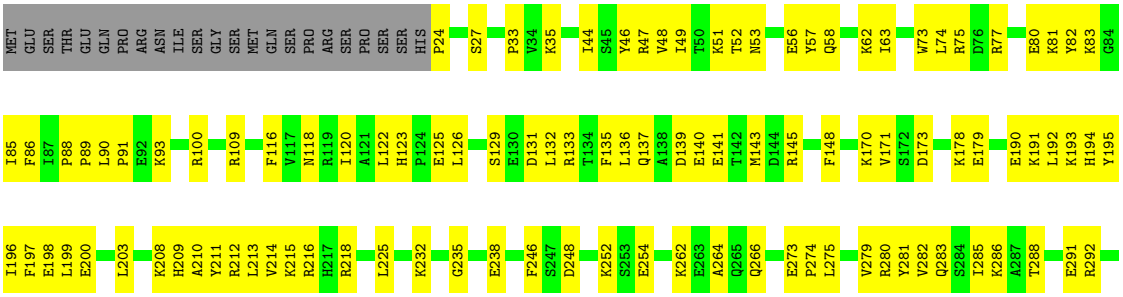
• Molecule 1: Sorting nexin 1

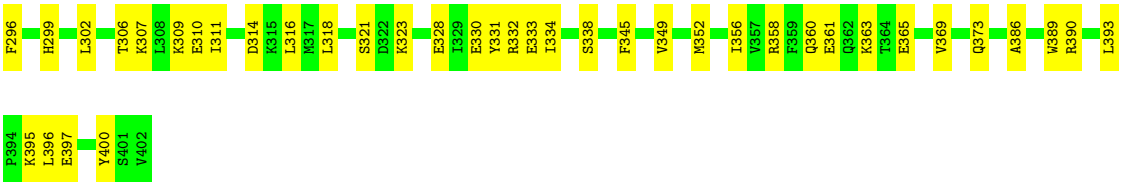
Chain T:



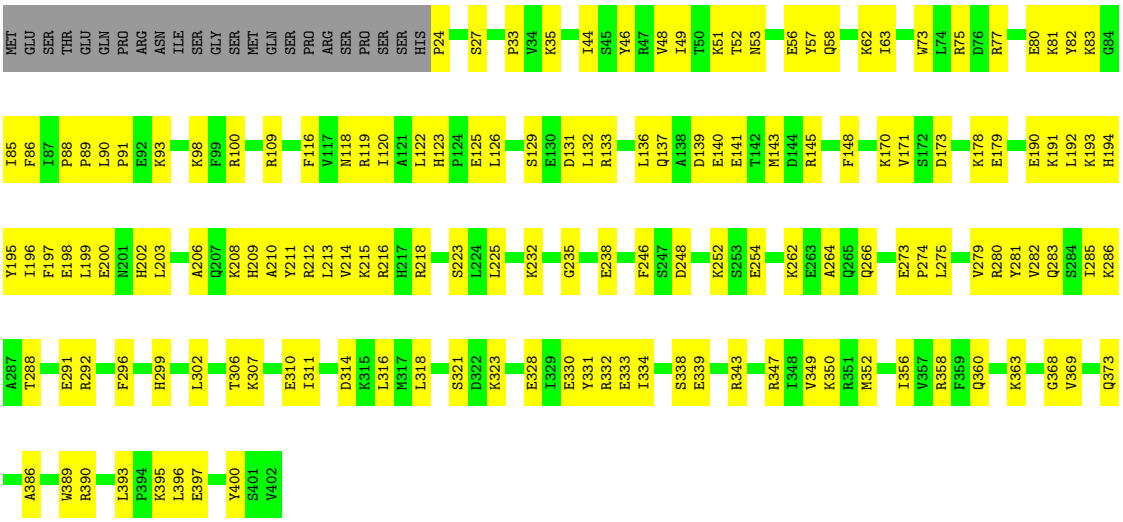
• Molecule 1: Sorting nexin 1

Chain U:

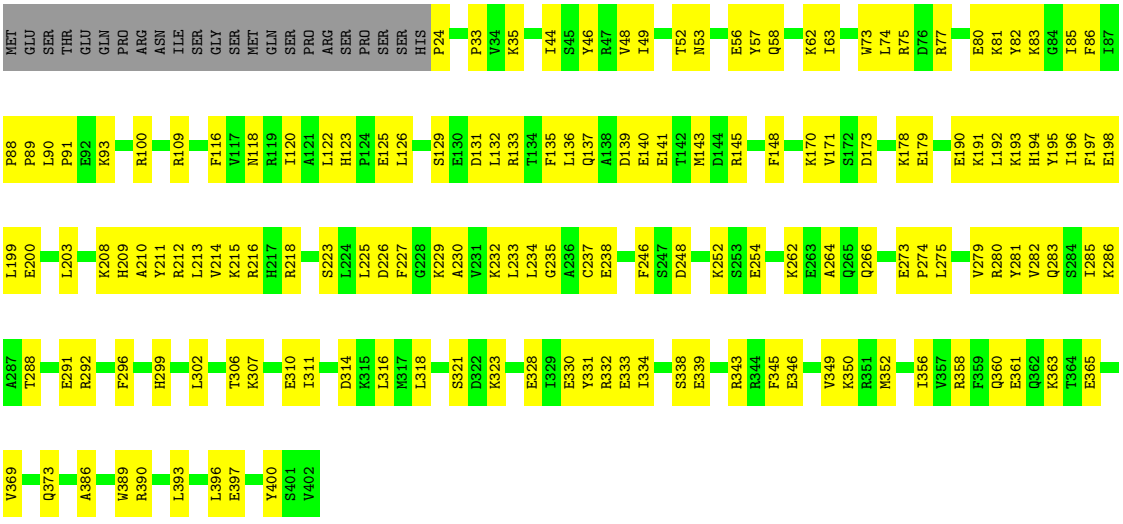




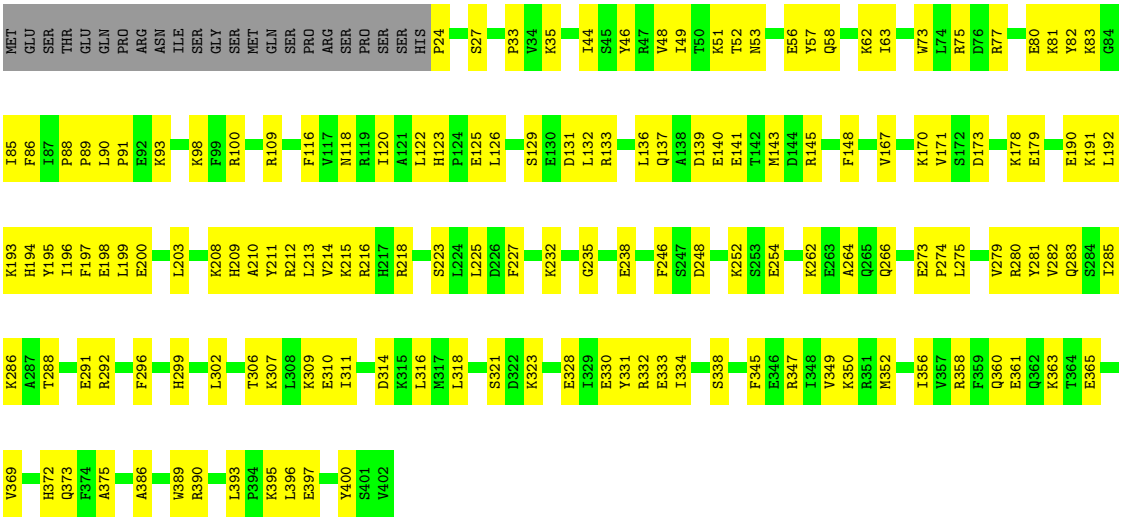
• Molecule 1: Sorting nexin 1



• Molecule 1: Sorting nexin 1

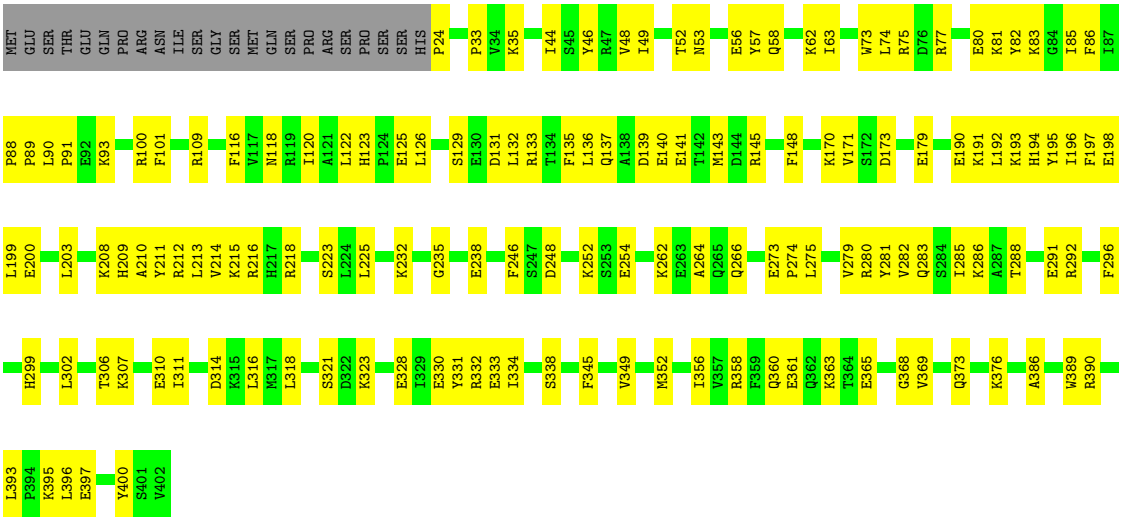


• Molecule 1: Sorting nexin 1



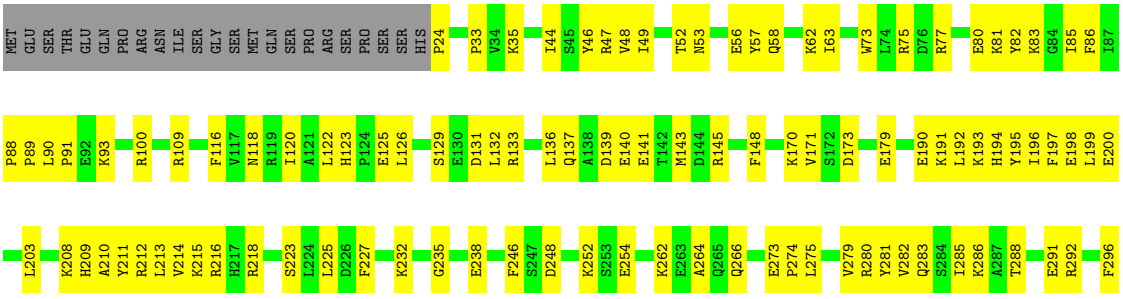
• Molecule 1: Sorting nexin 1

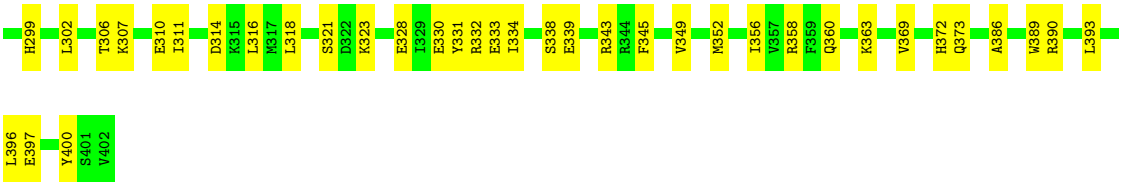
Chain Y:



• Molecule 1: Sorting nexin 1

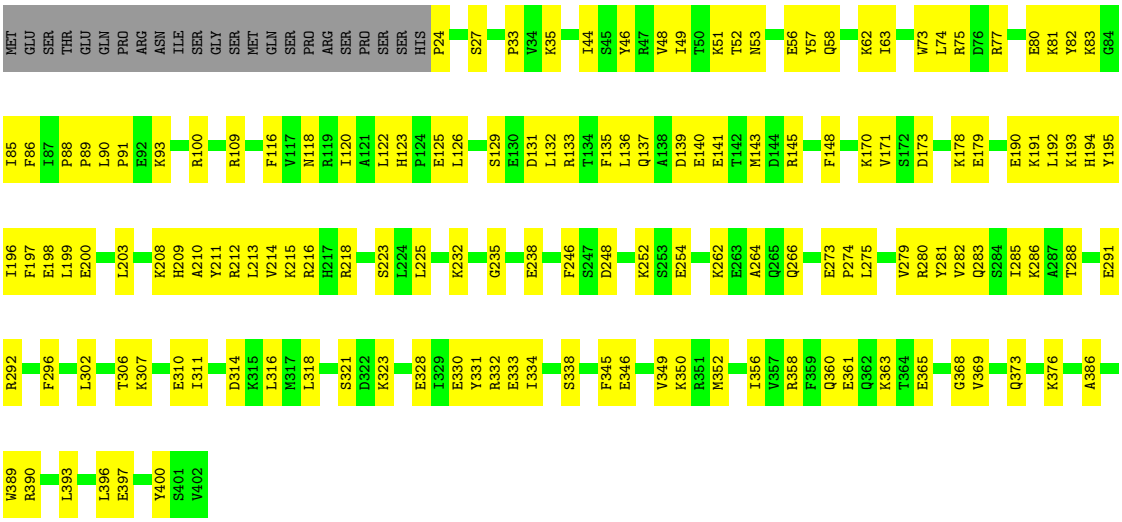
Chain Z:





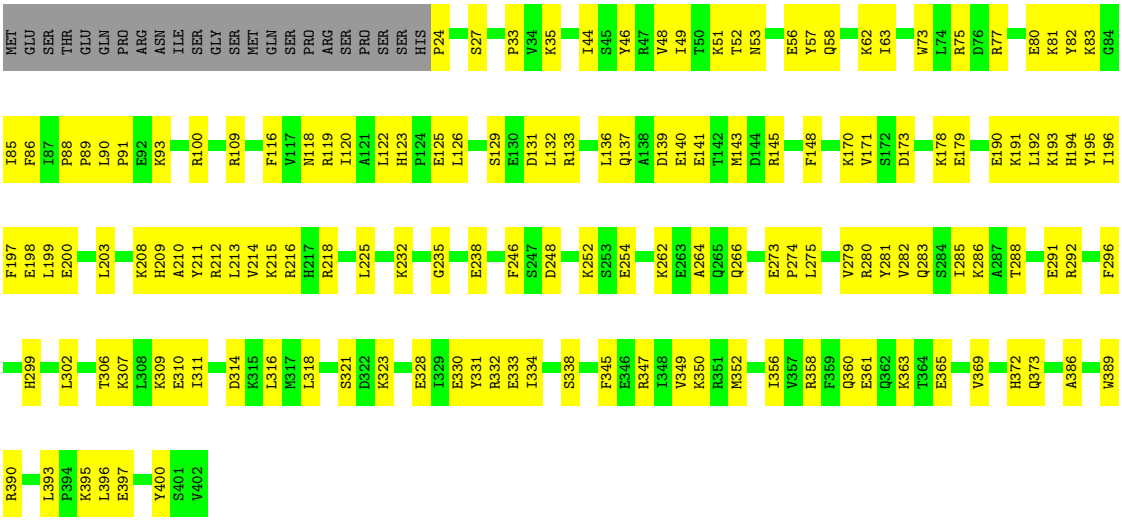
• Molecule 1: Sorting nexin 1

Chain a:



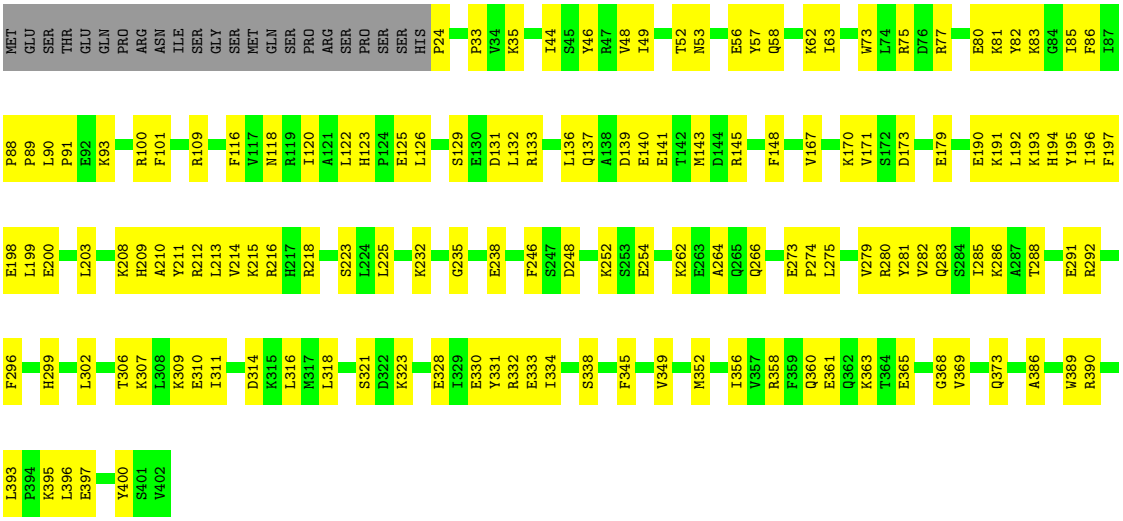
• Molecule 1: Sorting nexin 1

Chain b:



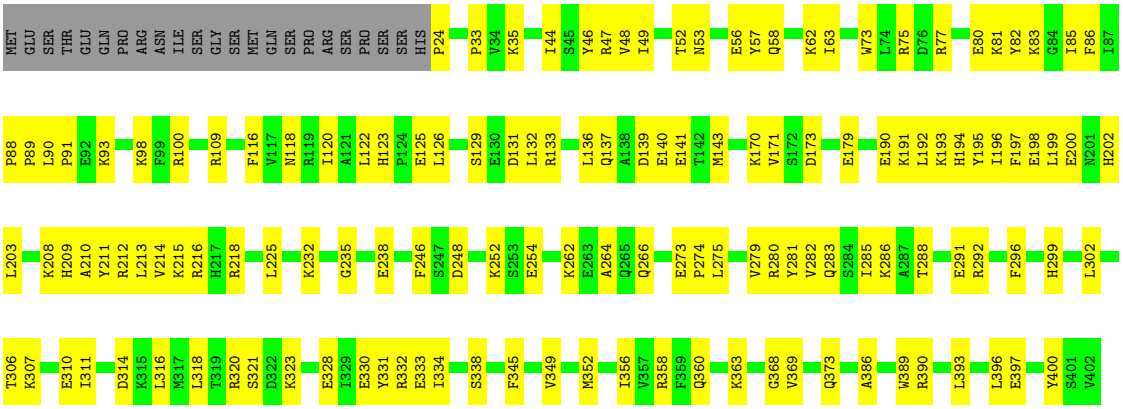
• Molecule 1: Sorting nexin 1

Chain c:



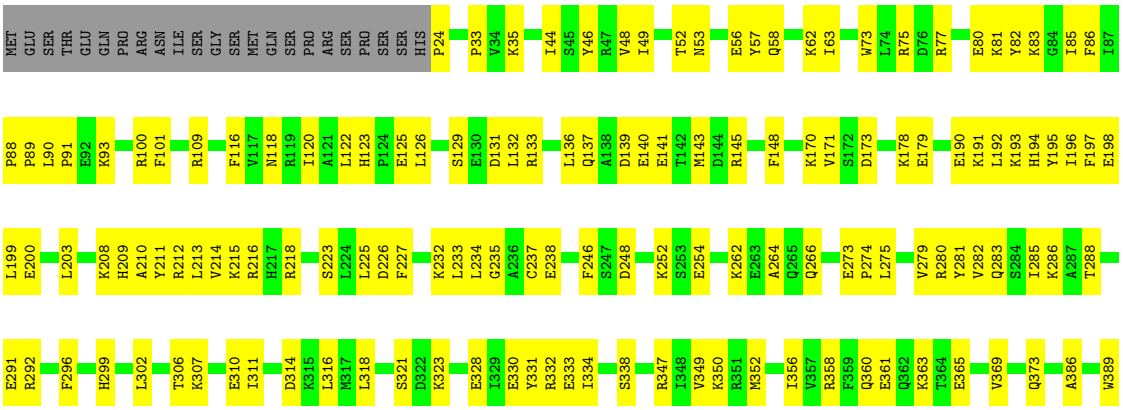
• Molecule 1: Sorting nexin 1

Chain d:



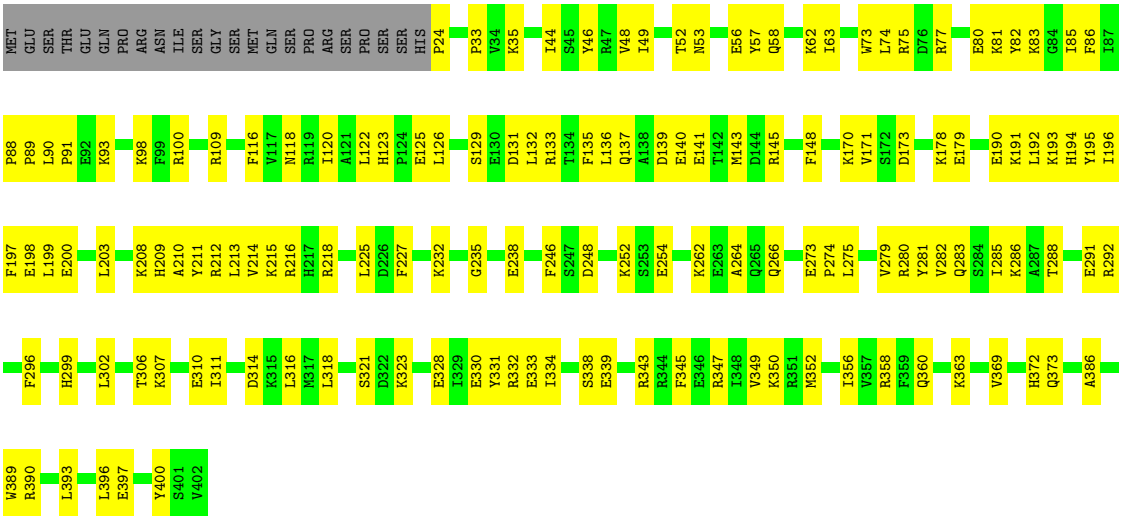
• Molecule 1: Sorting nexin 1

Chain e:



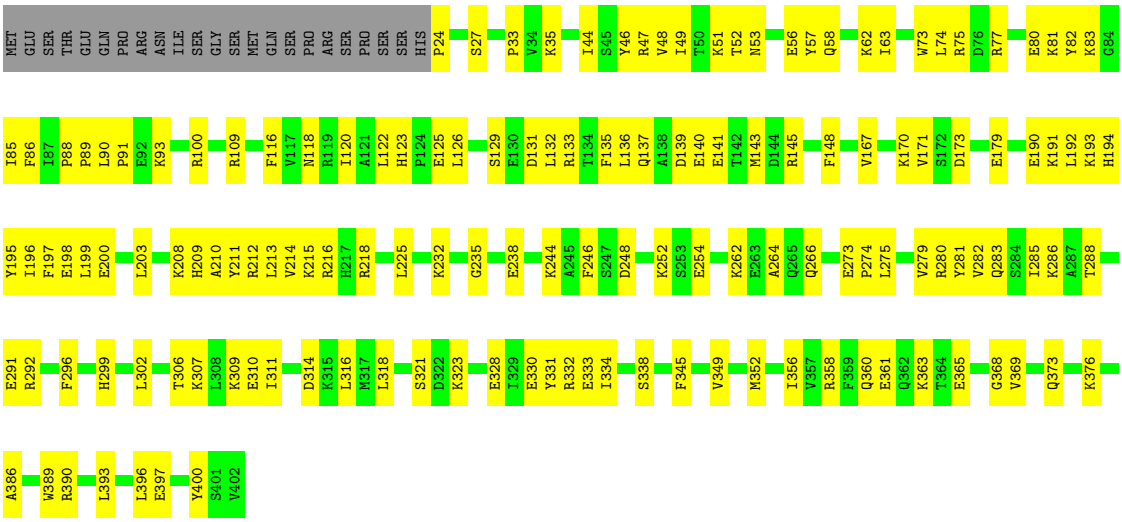
• Molecule 1: Sorting nexin 1

Chain f:



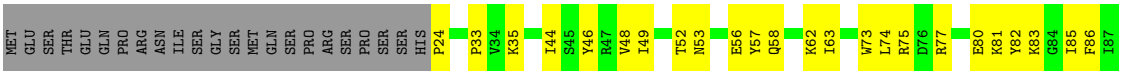
• Molecule 1: Sorting nexin 1

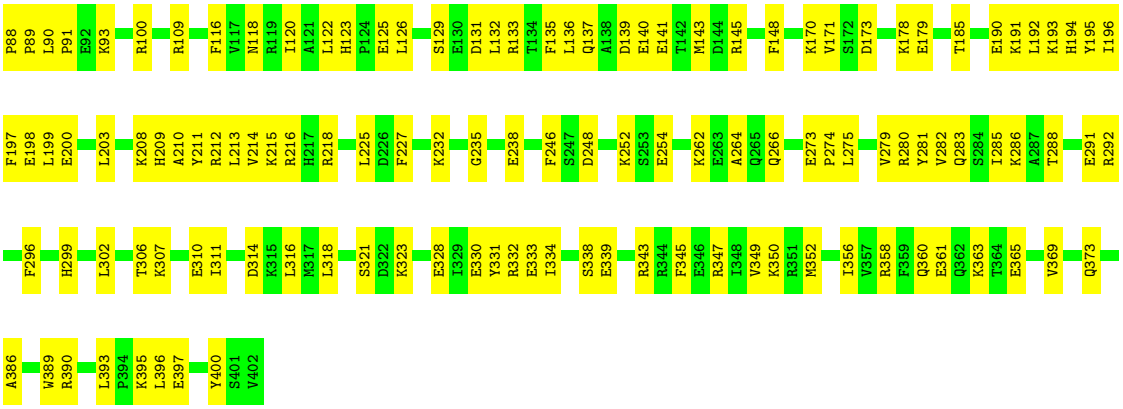
Chain g:



• Molecule 1: Sorting nexin 1

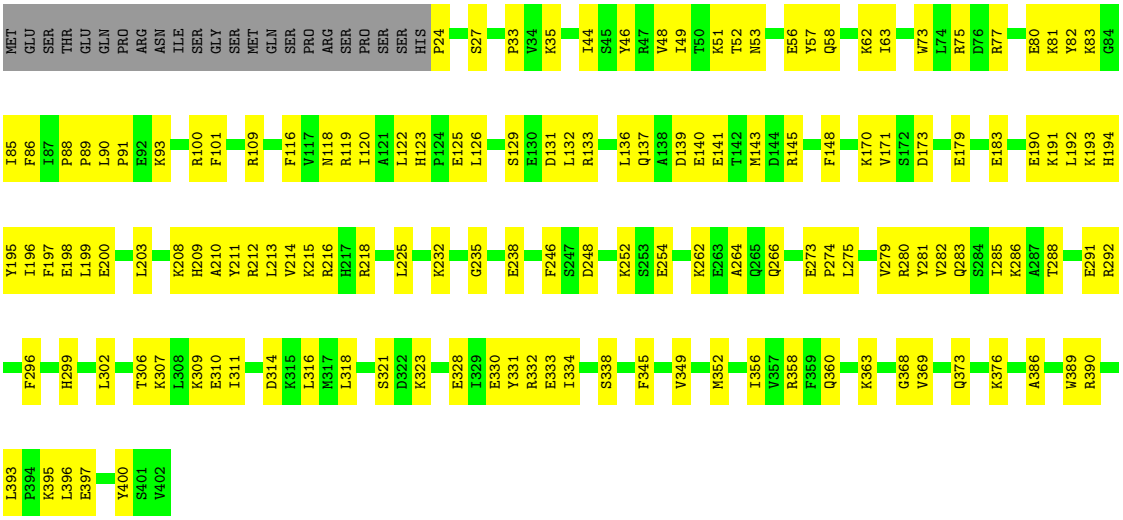
Chain h:





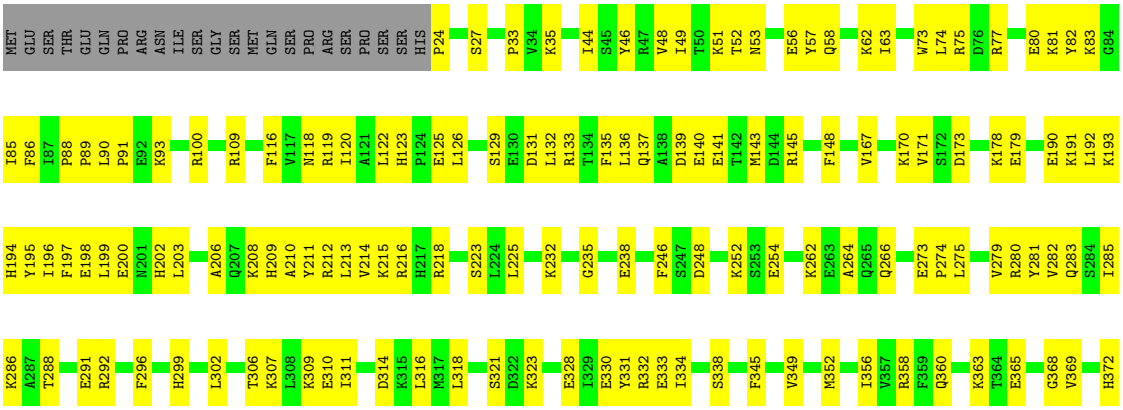
• Molecule 1: Sorting nexin 1

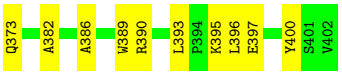
Chain i:



• Molecule 1: Sorting nexin 1

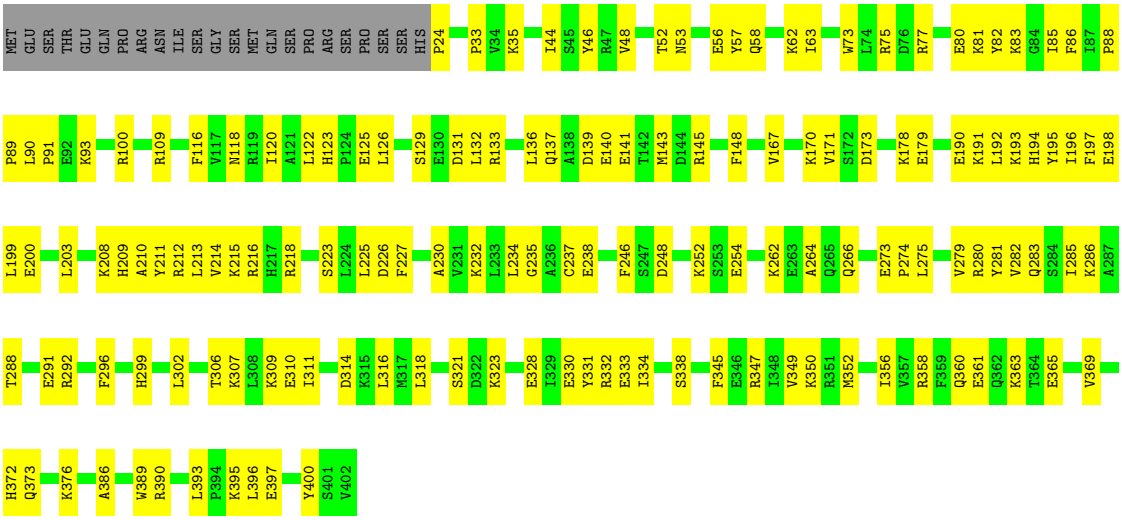
Chain j:





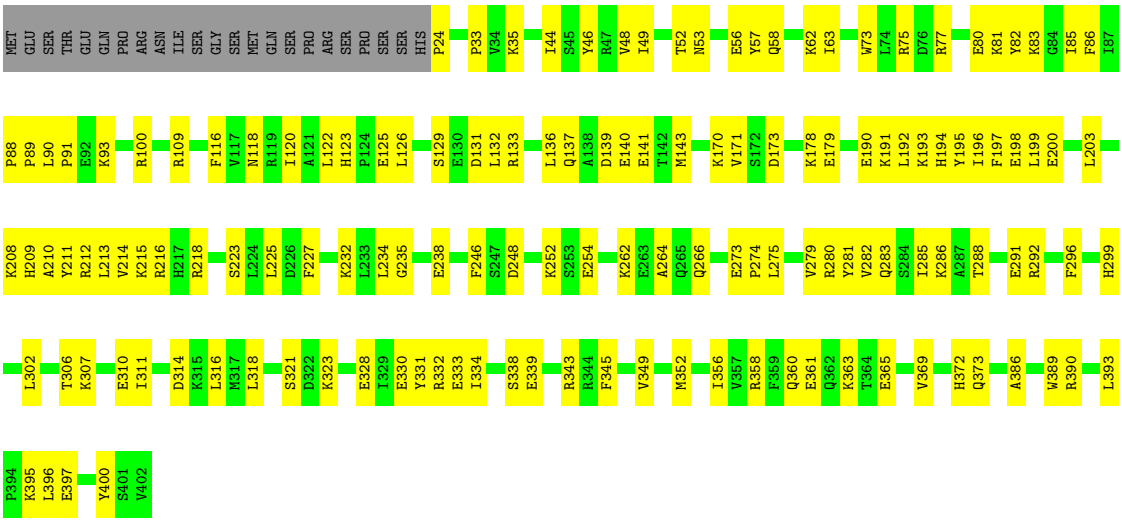
• Molecule 1: Sorting nexin 1

Chain k:



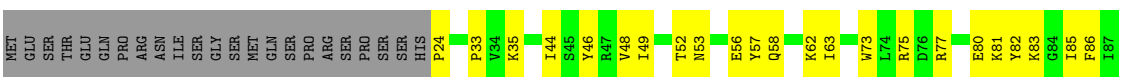
• Molecule 1: Sorting nexin 1

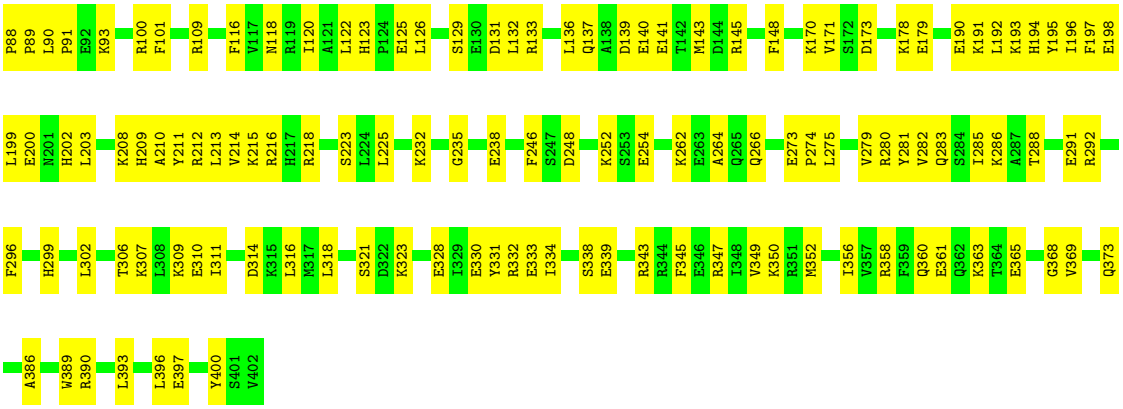
Chain l:



• Molecule 1: Sorting nexin 1

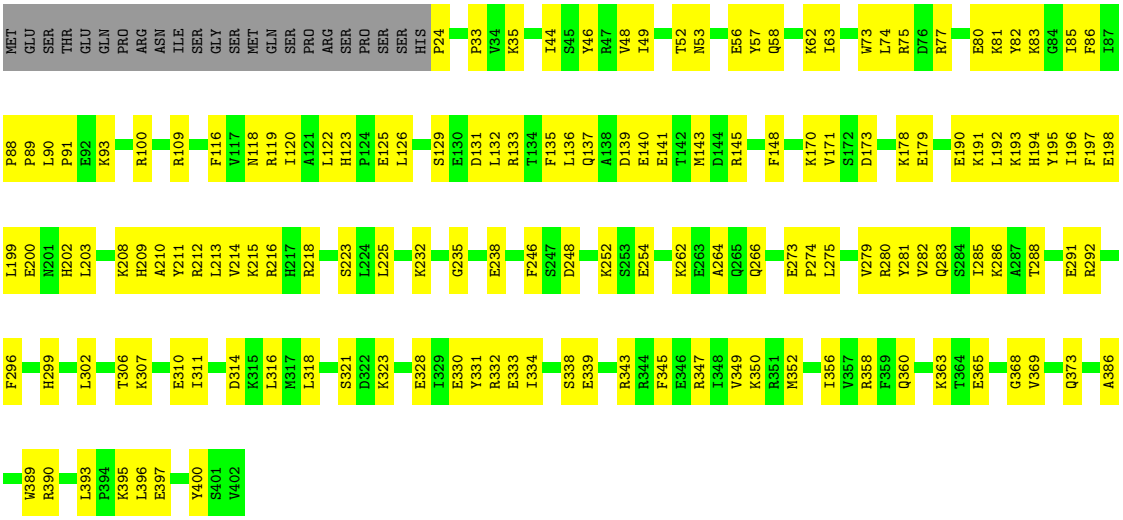
Chain m:





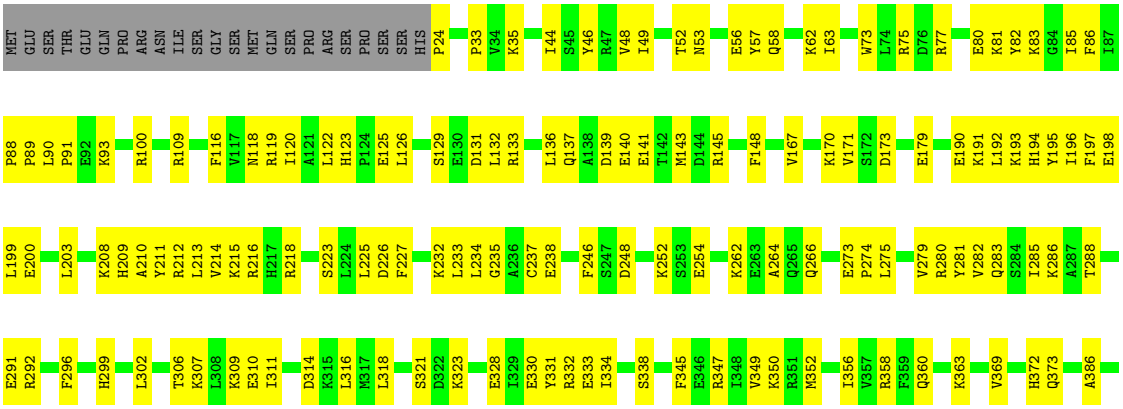
• Molecule 1: Sorting nexin 1

Chain n:



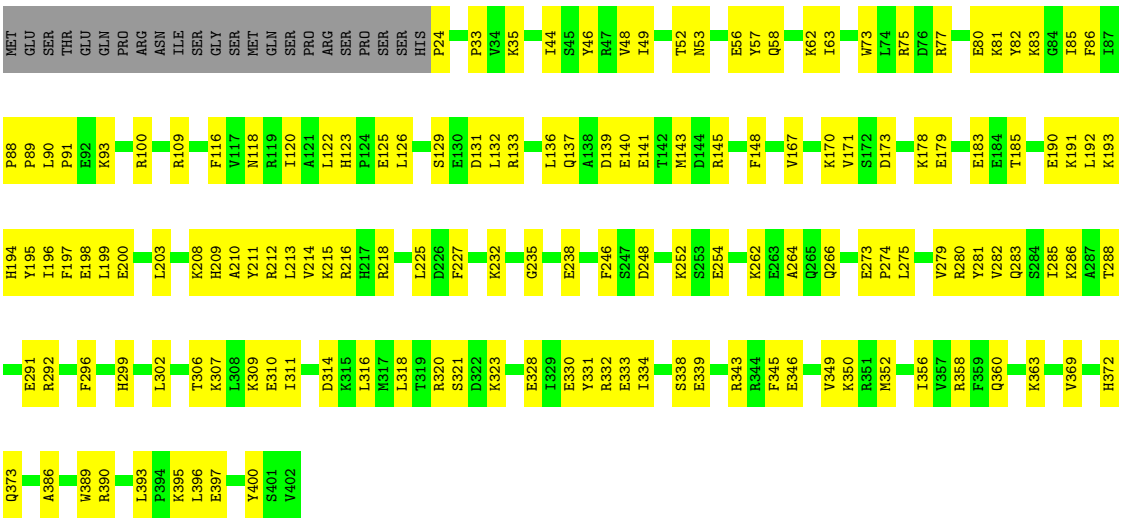
• Molecule 1: Sorting nexin 1

Chain o:



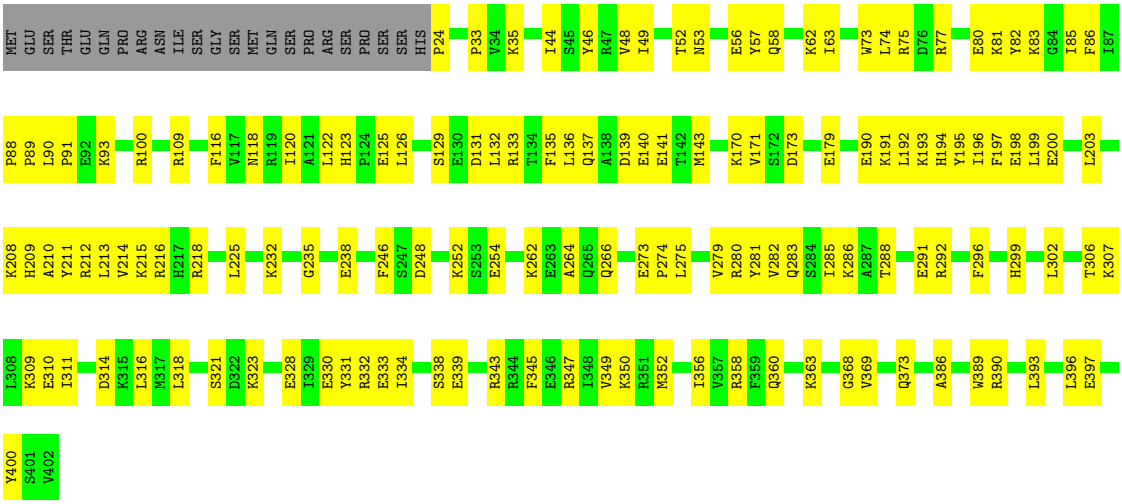
• Molecule 1: Sorting nexin 1

Chain p:



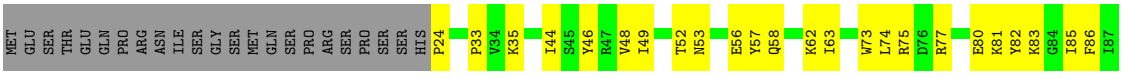
• Molecule 1: Sorting nexin 1

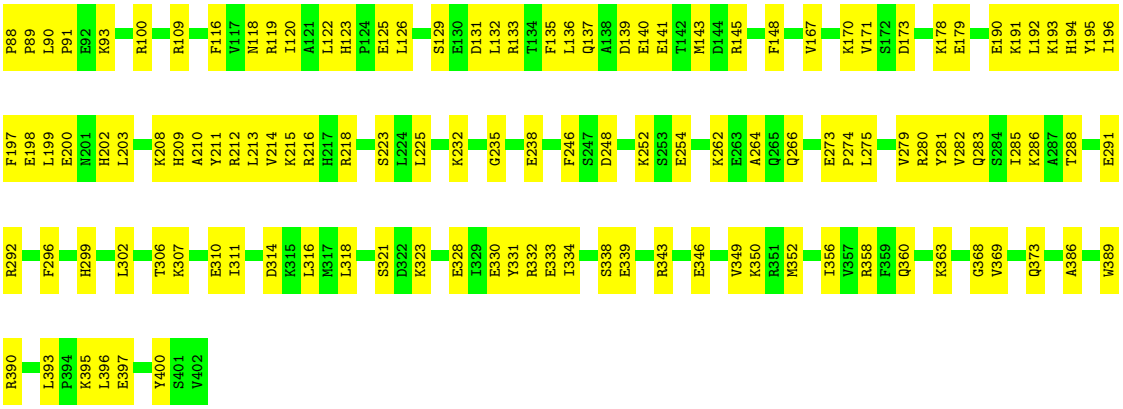
Chain q:



• Molecule 1: Sorting nexin 1

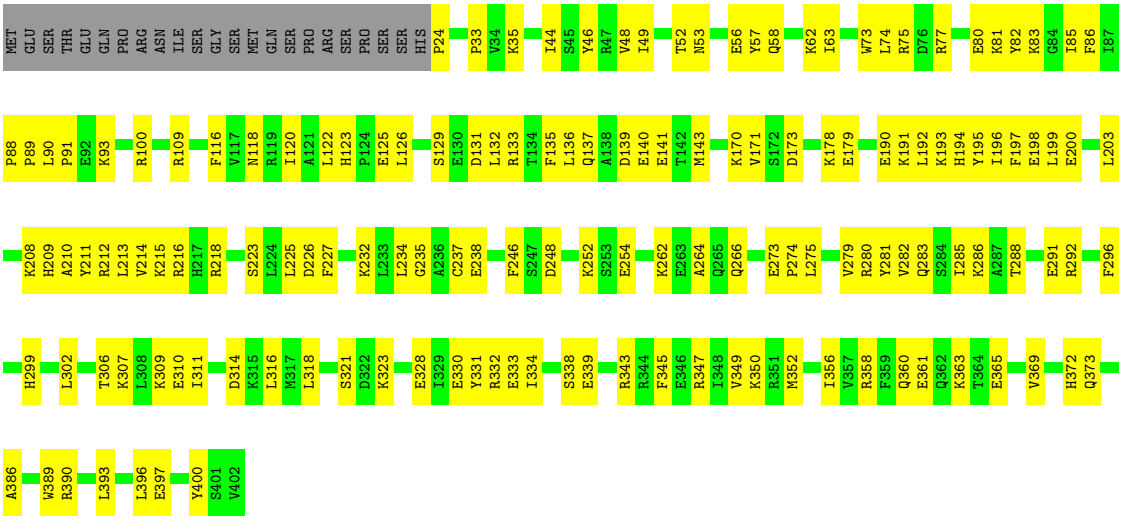
Chain r:





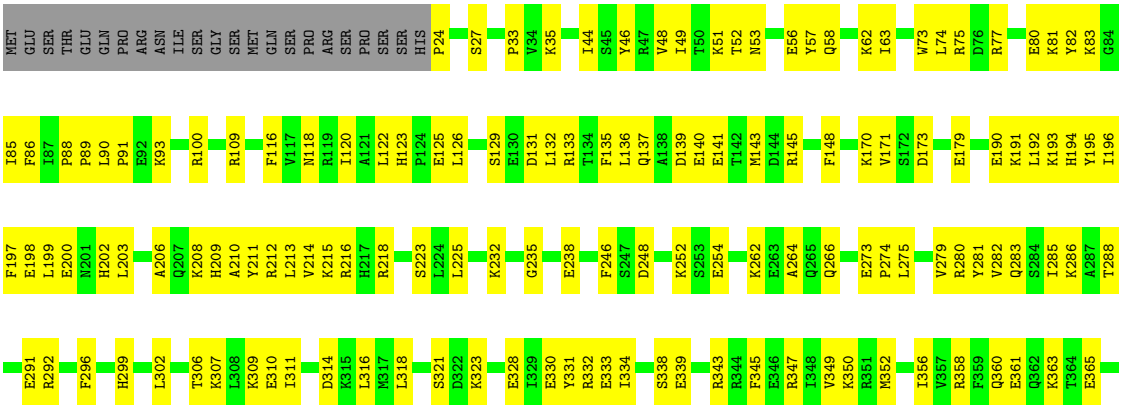
• Molecule 1: Sorting nexin 1

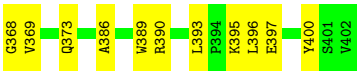
Chain s:



• Molecule 1: Sorting nexin 1

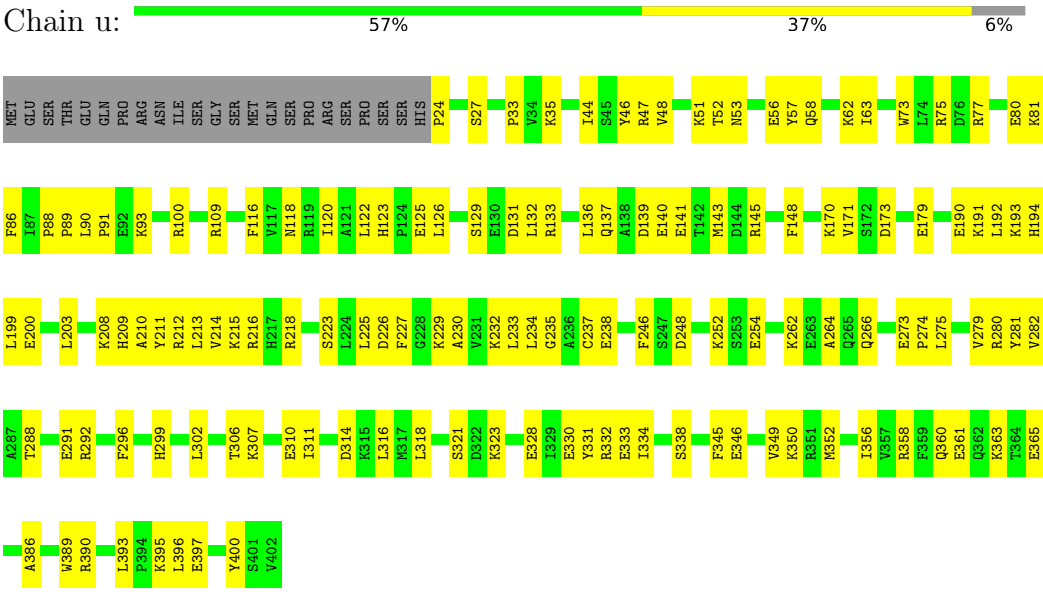
Chain t:





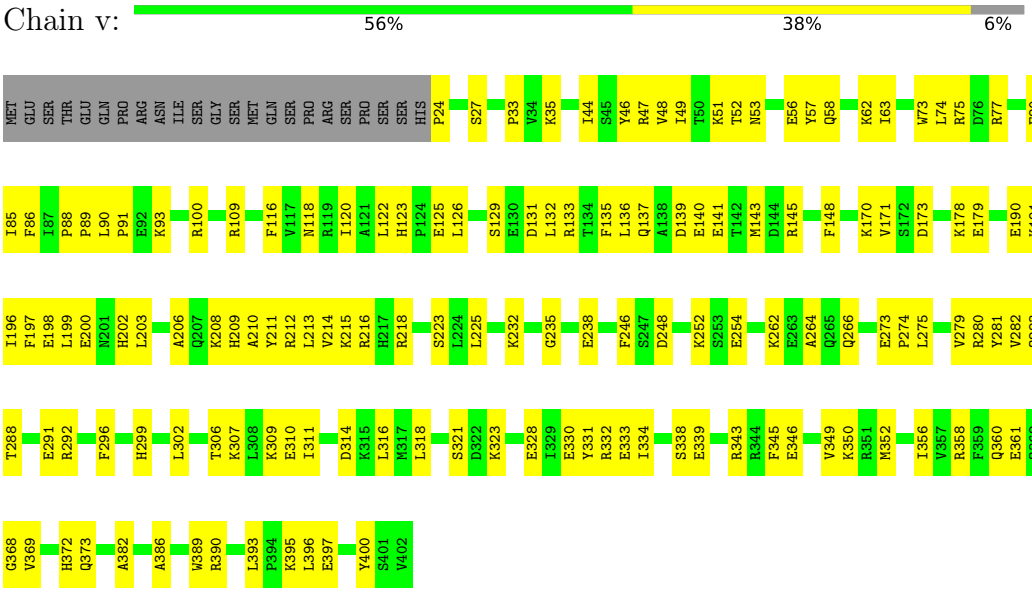
• Molecule 1: Sorting nexin 1

Chain u:



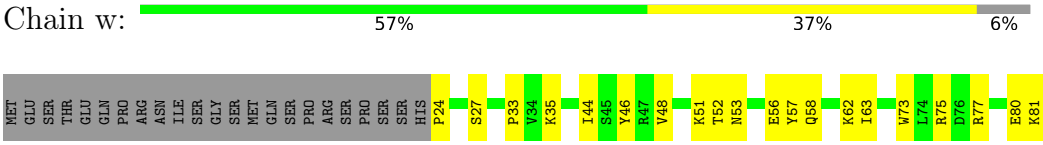
• Molecule 1: Sorting nexin 1

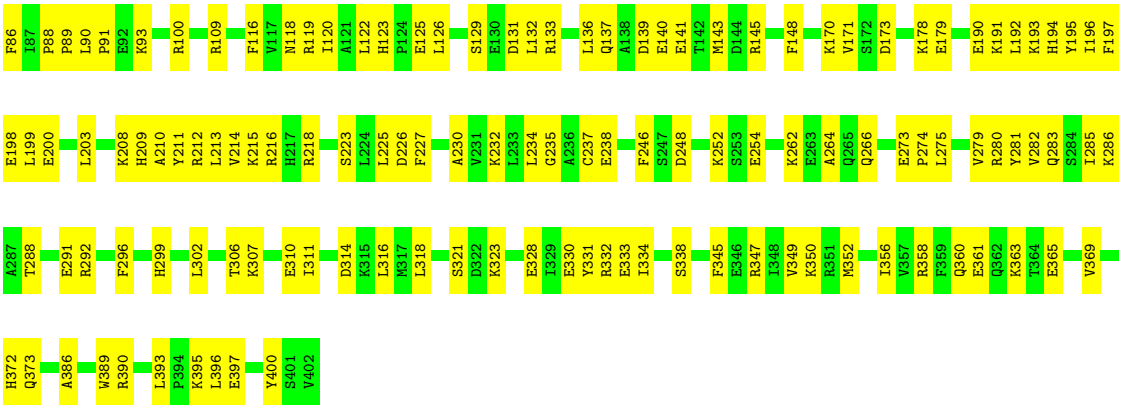
Chain v:



• Molecule 1: Sorting nexin 1

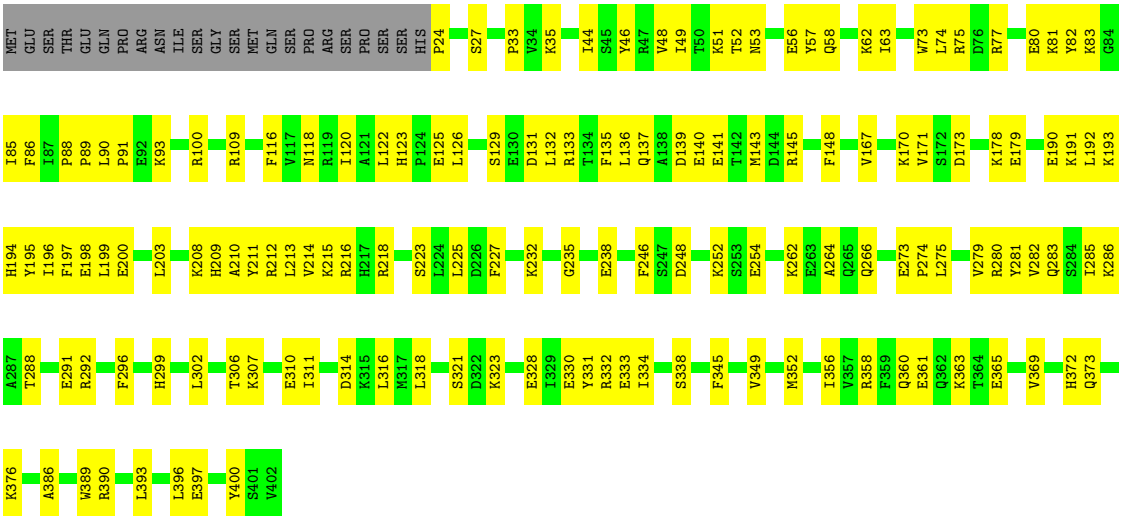
Chain w:





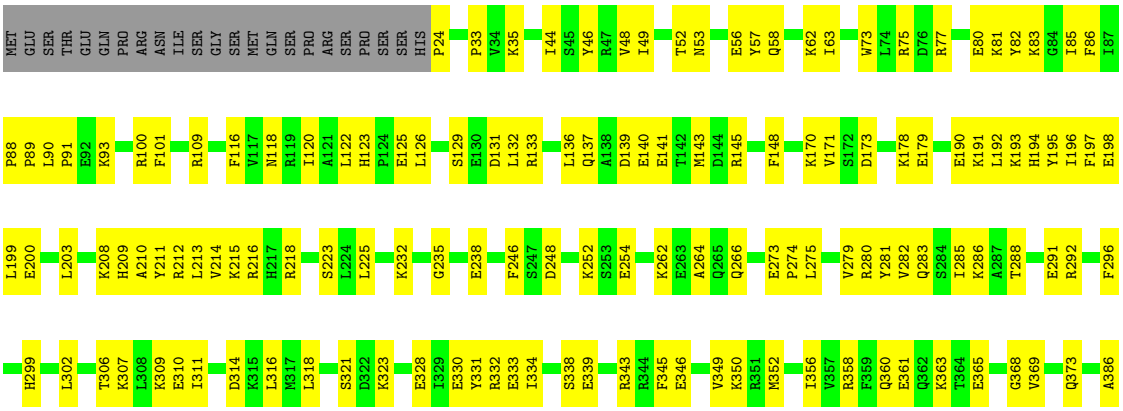
• Molecule 1: Sorting nexin 1

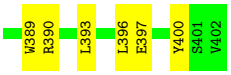
Chain x:



• Molecule 1: Sorting nexin 1

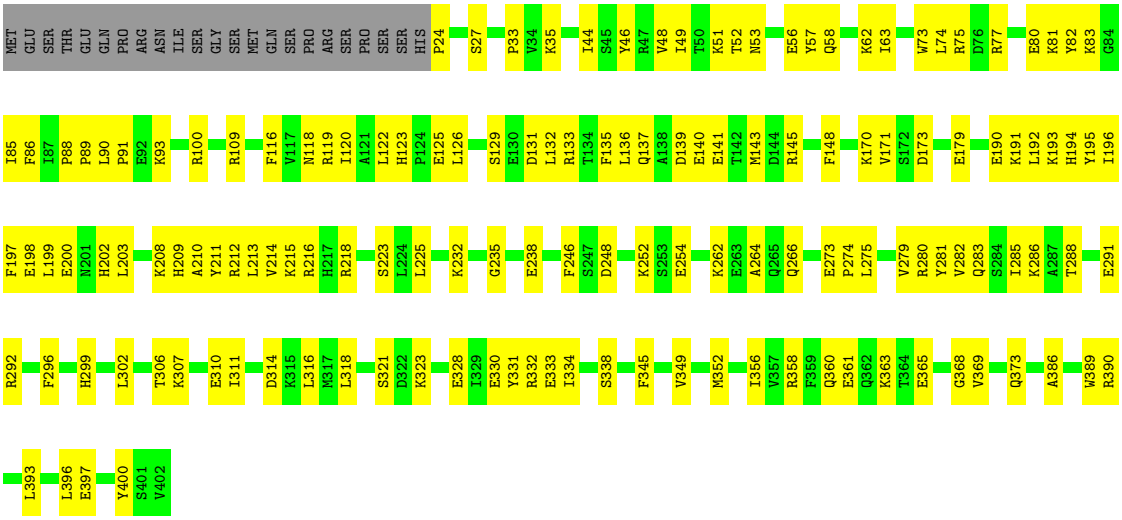
Chain y:





• Molecule 1: Sorting nexin 1

Chain z:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=-51.6°, rise=8.18 Å, axial sym=C1	Depositor
Number of segments used	49380	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	0	0.14	0/3159	0.35	0/4242
1	1	0.15	0/3159	0.35	0/4242
1	2	0.15	0/3159	0.35	0/4242
1	3	0.14	0/3159	0.35	0/4242
1	4	0.14	0/3159	0.35	0/4242
1	5	0.14	0/3159	0.35	0/4242
1	6	0.15	0/3159	0.35	0/4242
1	7	0.14	0/3159	0.35	0/4242
1	8	0.14	0/3159	0.35	0/4242
1	9	0.14	0/3159	0.35	0/4242
1	A	0.14	0/3159	0.35	0/4242
1	AA	0.14	0/3159	0.35	0/4242
1	AB	0.14	0/3159	0.35	0/4242
1	AC	0.14	0/3159	0.35	0/4242
1	AD	0.14	0/3159	0.35	0/4242
1	AE	0.14	0/3159	0.35	0/4242
1	AF	0.14	0/3159	0.35	0/4242
1	AG	0.14	0/3159	0.35	0/4242
1	AH	0.14	0/3159	0.35	0/4242
1	AI	0.14	0/3159	0.35	0/4242
1	AJ	0.14	0/3159	0.35	0/4242
1	AK	0.14	0/3159	0.35	0/4242
1	AL	0.14	0/3159	0.35	0/4242
1	AM	0.14	0/3159	0.35	0/4242
1	AN	0.14	0/3159	0.35	0/4242
1	AO	0.14	0/3159	0.35	0/4242
1	AP	0.14	0/3159	0.35	0/4242
1	AQ	0.14	0/3159	0.35	0/4242
1	AR	0.14	0/3159	0.35	0/4242
1	AS	0.14	0/3159	0.35	0/4242
1	B	0.14	0/3159	0.35	0/4242
1	C	0.14	0/3159	0.35	0/4242
1	D	0.14	0/3159	0.35	0/4242
1	E	0.14	0/3159	0.35	0/4242

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	F	0.14	0/3159	0.35	0/4242
1	G	0.14	0/3159	0.35	0/4242
1	H	0.14	0/3159	0.35	0/4242
1	I	0.14	0/3159	0.35	0/4242
1	J	0.14	0/3159	0.35	0/4242
1	K	0.14	0/3159	0.35	0/4242
1	L	0.14	0/3159	0.35	0/4242
1	M	0.15	0/3159	0.35	0/4242
1	N	0.14	0/3159	0.35	0/4242
1	O	0.14	0/3159	0.35	0/4242
1	P	0.14	0/3159	0.35	0/4242
1	Q	0.14	0/3159	0.35	0/4242
1	R	0.15	0/3159	0.35	0/4242
1	S	0.14	0/3159	0.35	0/4242
1	T	0.14	0/3159	0.35	0/4242
1	U	0.14	0/3159	0.35	0/4242
1	V	0.15	0/3159	0.35	0/4242
1	W	0.14	0/3159	0.35	0/4242
1	X	0.14	0/3159	0.35	0/4242
1	Y	0.14	0/3159	0.35	0/4242
1	Z	0.14	0/3159	0.35	0/4242
1	a	0.14	0/3159	0.35	0/4242
1	b	0.14	0/3159	0.35	0/4242
1	c	0.14	0/3159	0.35	0/4242
1	d	0.15	0/3159	0.35	0/4242
1	e	0.14	0/3159	0.35	0/4242
1	f	0.14	0/3159	0.35	0/4242
1	g	0.14	0/3159	0.35	0/4242
1	h	0.14	0/3159	0.35	0/4242
1	i	0.14	0/3159	0.35	0/4242
1	j	0.15	0/3159	0.35	0/4242
1	k	0.14	0/3159	0.35	0/4242
1	l	0.14	0/3159	0.35	0/4242
1	m	0.14	0/3159	0.35	0/4242
1	n	0.14	0/3159	0.35	0/4242
1	o	0.14	0/3159	0.35	0/4242
1	p	0.14	0/3159	0.35	0/4242
1	q	0.14	0/3159	0.35	0/4242
1	r	0.14	0/3159	0.35	0/4242
1	s	0.14	0/3159	0.35	0/4242
1	t	0.14	0/3159	0.35	0/4242
1	u	0.14	0/3159	0.35	0/4242
1	v	0.14	0/3159	0.35	0/4242

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	w	0.14	0/3159	0.35	0/4242
1	x	0.14	0/3159	0.35	0/4242
1	y	0.14	0/3159	0.35	0/4242
1	z	0.14	0/3159	0.35	0/4242
All	All	0.14	0/255879	0.35	0/343602

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	3102	0	3129	102	0
1	1	3102	0	3129	115	0
1	2	3102	0	3129	131	0
1	3	3102	0	3129	113	0
1	4	3102	0	3129	114	0
1	5	3102	0	3129	116	0
1	6	3102	0	3129	117	0
1	7	3102	0	3129	113	0
1	8	3102	0	3129	125	0
1	9	3102	0	3129	123	0
1	A	3102	0	3129	111	0
1	AA	3102	0	3129	116	0
1	AB	3102	0	3129	118	0
1	AC	3102	0	3129	114	0
1	AD	3102	0	3129	113	0
1	AE	3102	0	3129	112	0
1	AF	3102	0	3129	114	0
1	AG	3102	0	3129	110	0
1	AH	3102	0	3129	109	0
1	AI	3102	0	3129	107	0
1	AJ	3102	0	3129	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AK	3102	0	3129	107	0
1	AL	3102	0	3129	113	0
1	AM	3102	0	3129	106	0
1	AN	3102	0	3129	105	0
1	AO	3102	0	3129	123	0
1	AP	3102	0	3129	108	0
1	AQ	3102	0	3129	113	0
1	AR	3102	0	3129	108	0
1	AS	3102	0	3129	109	0
1	B	3102	0	3129	111	0
1	C	3102	0	3129	120	0
1	D	3102	0	3129	123	0
1	E	3102	0	3129	106	0
1	F	3102	0	3129	110	0
1	G	3102	0	3129	114	0
1	H	3102	0	3129	120	0
1	I	3102	0	3129	115	0
1	J	3102	0	3129	114	0
1	K	3102	0	3129	111	0
1	L	3102	0	3129	113	0
1	M	3102	0	3129	115	0
1	N	3102	0	3129	114	0
1	O	3102	0	3129	123	0
1	P	3102	0	3129	123	0
1	Q	3102	0	3129	115	0
1	R	3102	0	3129	116	0
1	S	3102	0	3129	112	0
1	T	3102	0	3129	110	0
1	U	3102	0	3129	102	0
1	V	3102	0	3129	116	0
1	W	3102	0	3129	117	0
1	X	3102	0	3129	113	0
1	Y	3102	0	3129	112	0
1	Z	3102	0	3129	103	0
1	a	3102	0	3129	107	0
1	b	3102	0	3129	107	0
1	c	3102	0	3129	109	0
1	d	3102	0	3129	111	0
1	e	3102	0	3129	109	0
1	f	3102	0	3129	102	0
1	g	3102	0	3129	109	0
1	h	3102	0	3129	103	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	i	3102	0	3129	106	0
1	j	3102	0	3129	122	0
1	k	3102	0	3129	125	0
1	l	3102	0	3129	108	0
1	m	3102	0	3129	110	0
1	n	3102	0	3129	115	0
1	o	3102	0	3129	116	0
1	p	3102	0	3129	114	0
1	q	3102	0	3129	102	0
1	r	3102	0	3129	113	0
1	s	3102	0	3129	113	0
1	t	3102	0	3129	116	0
1	u	3102	0	3129	114	0
1	v	3102	0	3129	127	0
1	w	3102	0	3129	123	0
1	x	3102	0	3129	106	0
1	y	3102	0	3129	109	0
1	z	3102	0	3129	116	0
All	All	251262	0	253449	8679	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 17.

All (8679) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:368:GLY:HA3	1:P:400:TYR:HB3	1.41	1.02
1:j:368:GLY:HA3	1:k:400:TYR:HB3	1.41	1.00
1:8:368:GLY:HA3	1:9:400:TYR:HB3	1.41	0.99
1:v:368:GLY:HA3	1:w:400:TYR:HB3	1.41	0.98
1:C:368:GLY:HA3	1:D:400:TYR:HB3	1.41	0.98
1:C:213:LEU:HD11	1:D:227:PHE:HB2	1.47	0.95
1:O:213:LEU:HD11	1:P:227:PHE:HB2	1.47	0.95
1:v:213:LEU:HD11	1:w:227:PHE:HB2	1.47	0.94
1:j:213:LEU:HD11	1:k:227:PHE:HB2	1.47	0.93
1:8:213:LEU:HD11	1:9:227:PHE:HB2	1.47	0.93
1:2:320:ARG:HH22	1:AO:183:GLU:HB3	1.32	0.92
1:2:318:LEU:O	1:AO:182:VAL:HG23	1.71	0.89
1:AA:213:LEU:HD11	1:AB:227:PHE:HB2	1.59	0.84
1:AQ:183:GLU:HB3	1:p:320:ARG:NH2	1.93	0.84
1:1:227:PHE:HB2	1:z:213:LEU:HD11	1.59	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:213:LEU:HD11	1:R:227:PHE:HB2	1.59	0.83
1:G:213:LEU:HD11	1:H:227:PHE:HB2	1.59	0.83
1:n:213:LEU:HD11	1:o:227:PHE:HB2	1.59	0.83
1:A:213:LEU:HD11	1:B:227:PHE:HB2	1.61	0.82
1:M:213:LEU:HD11	1:N:227:PHE:HB2	1.61	0.82
1:AC:212:ARG:HH22	1:AD:223:SER:HA	1.46	0.81
1:AQ:183:GLU:HB3	1:p:320:ARG:HH22	1.41	0.81
1:d:212:ARG:HH22	1:e:223:SER:HA	1.46	0.81
1:V:213:LEU:HD11	1:W:227:PHE:HB2	1.61	0.81
1:j:202:HIS:HB3	1:k:234:LEU:HA	1.63	0.81
1:C:202:HIS:HB3	1:D:234:LEU:HA	1.63	0.81
1:2:212:ARG:HH22	1:3:223:SER:HA	1.46	0.81
1:v:202:HIS:HB3	1:w:234:LEU:HA	1.63	0.81
1:6:213:LEU:HD11	1:7:227:PHE:HB2	1.61	0.80
1:8:202:HIS:HB3	1:9:234:LEU:HA	1.63	0.80
1:S:212:ARG:HH22	1:T:223:SER:HA	1.46	0.80
1:AS:183:GLU:HB3	1:S:320:ARG:NH2	1.96	0.80
1:O:202:HIS:HB3	1:P:234:LEU:HA	1.63	0.80
1:t:213:LEU:HD11	1:u:227:PHE:HB2	1.61	0.80
1:I:212:ARG:HH22	1:J:223:SER:HA	1.46	0.79
1:AQ:320:ARG:HD2	1:p:185:THR:HG22	1.66	0.78
1:d:98:LYS:HE3	1:m:101:PHE:HD2	1.46	0.78
1:AC:368:GLY:HA3	1:AD:400:TYR:HB3	1.66	0.78
1:2:368:GLY:HA3	1:3:400:TYR:HB3	1.66	0.78
1:S:368:GLY:HA3	1:T:400:TYR:HB3	1.66	0.78
1:I:368:GLY:HA3	1:J:400:TYR:HB3	1.65	0.78
1:d:368:GLY:HA3	1:e:400:TYR:HB3	1.66	0.78
1:l:400:TYR:HB3	1:m:368:GLY:HA3	1.68	0.76
1:AS:183:GLU:HB3	1:S:320:ARG:HH22	1.48	0.75
1:AA:368:GLY:HA3	1:AB:400:TYR:HB3	1.69	0.75
1:v:212:ARG:HH22	1:w:223:SER:HA	1.52	0.75
1:8:212:ARG:HH22	1:9:223:SER:HA	1.52	0.74
1:C:212:ARG:HH22	1:D:223:SER:HA	1.52	0.74
1:G:368:GLY:HA3	1:H:400:TYR:HB3	1.69	0.74
1:j:212:ARG:HH22	1:k:223:SER:HA	1.52	0.74
1:Q:368:GLY:HA3	1:R:400:TYR:HB3	1.69	0.73
1:G:212:ARG:HH22	1:H:223:SER:HA	1.53	0.73
1:Q:212:ARG:HH22	1:R:223:SER:HA	1.53	0.73
1:1:400:TYR:HB3	1:z:368:GLY:HA3	1.69	0.73
1:O:212:ARG:HH22	1:P:223:SER:HA	1.52	0.73
1:n:368:GLY:HA3	1:o:400:TYR:HB3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:212:ARG:HH22	1:AF:223:SER:HA	1.53	0.73
1:AC:209:HIS:HA	1:AC:212:ARG:HE	1.54	0.72
1:AF:209:HIS:HA	1:AF:212:ARG:HE	1.54	0.72
1:S:209:HIS:HA	1:S:212:ARG:HE	1.55	0.72
1:U:209:HIS:HA	1:U:212:ARG:HE	1.54	0.72
1:z:209:HIS:HA	1:z:212:ARG:HE	1.54	0.72
1:AG:209:HIS:HA	1:AG:212:ARG:HE	1.55	0.72
1:a:209:HIS:HA	1:a:212:ARG:HE	1.54	0.72
1:w:209:HIS:HA	1:w:212:ARG:HE	1.55	0.72
1:8:212:ARG:NH2	1:9:226:ASP:HB2	2.05	0.72
1:AD:209:HIS:HA	1:AD:212:ARG:HE	1.55	0.72
1:AE:209:HIS:HA	1:AE:212:ARG:HE	1.55	0.72
1:AH:209:HIS:HA	1:AH:212:ARG:HE	1.55	0.72
1:AS:209:HIS:HA	1:AS:212:ARG:HE	1.54	0.72
1:T:209:HIS:HA	1:T:212:ARG:HE	1.55	0.72
1:g:209:HIS:HA	1:g:212:ARG:HE	1.55	0.72
1:r:212:ARG:HH22	1:s:223:SER:HA	1.53	0.72
1:t:209:HIS:HA	1:t:212:ARG:HE	1.55	0.72
1:u:209:HIS:HA	1:u:212:ARG:HE	1.55	0.72
1:x:209:HIS:HA	1:x:212:ARG:HE	1.55	0.72
1:1:209:HIS:HA	1:1:212:ARG:HE	1.55	0.72
1:1:223:SER:HA	1:z:212:ARG:HH22	1.53	0.72
1:Z:209:HIS:HA	1:Z:212:ARG:HE	1.55	0.72
1:f:209:HIS:HA	1:f:212:ARG:HE	1.55	0.72
1:i:209:HIS:HA	1:i:212:ARG:HE	1.54	0.72
1:v:209:HIS:HA	1:v:212:ARG:HE	1.55	0.72
1:8:209:HIS:HA	1:8:212:ARG:HE	1.55	0.72
1:v:212:ARG:NH2	1:w:226:ASP:HB2	2.04	0.72
1:y:209:HIS:HA	1:y:212:ARG:HE	1.55	0.72
1:j:212:ARG:NH2	1:k:226:ASP:HB2	2.04	0.72
1:o:209:HIS:HA	1:o:212:ARG:HE	1.55	0.72
1:AA:212:ARG:HH22	1:AB:223:SER:HA	1.53	0.72
1:AR:209:HIS:HA	1:AR:212:ARG:HE	1.55	0.72
1:n:212:ARG:HH22	1:o:223:SER:HA	1.53	0.72
1:2:209:HIS:HA	1:2:212:ARG:HE	1.55	0.72
1:6:209:HIS:HA	1:6:212:ARG:HE	1.55	0.72
1:7:209:HIS:HA	1:7:212:ARG:HE	1.55	0.72
1:9:209:HIS:HA	1:9:212:ARG:HE	1.55	0.72
1:O:212:ARG:NH2	1:P:226:ASP:HB2	2.05	0.72
1:e:209:HIS:HA	1:e:212:ARG:HE	1.55	0.72
1:h:209:HIS:HA	1:h:212:ARG:HE	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:209:HIS:HA	1:m:212:ARG:HE	1.55	0.72
1:n:209:HIS:HA	1:n:212:ARG:HE	1.55	0.72
1:r:209:HIS:HA	1:r:212:ARG:HE	1.55	0.72
1:3:209:HIS:HA	1:3:212:ARG:HE	1.54	0.72
1:J:209:HIS:HA	1:J:212:ARG:HE	1.55	0.72
1:K:209:HIS:HA	1:K:212:ARG:HE	1.54	0.72
1:N:209:HIS:HA	1:N:212:ARG:HE	1.55	0.72
1:p:209:HIS:HA	1:p:212:ARG:HE	1.55	0.72
1:q:209:HIS:HA	1:q:212:ARG:HE	1.55	0.72
1:AM:209:HIS:HA	1:AM:212:ARG:HE	1.54	0.72
1:K:212:ARG:HH22	1:L:223:SER:HA	1.53	0.72
1:P:209:HIS:HA	1:P:212:ARG:HE	1.54	0.72
1:s:209:HIS:HA	1:s:212:ARG:HE	1.55	0.72
1:4:209:HIS:HA	1:4:212:ARG:HE	1.55	0.71
1:5:209:HIS:HA	1:5:212:ARG:HE	1.55	0.71
1:B:209:HIS:HA	1:B:212:ARG:HE	1.55	0.71
1:I:209:HIS:HA	1:I:212:ARG:HE	1.55	0.71
1:l:209:HIS:HA	1:l:212:ARG:HE	1.55	0.71
1:D:209:HIS:HA	1:D:212:ARG:HE	1.55	0.71
1:L:209:HIS:HA	1:L:212:ARG:HE	1.55	0.71
1:4:212:ARG:HH22	1:5:223:SER:HA	1.53	0.71
1:AJ:209:HIS:HA	1:AJ:212:ARG:HE	1.55	0.71
1:C:209:HIS:HA	1:C:212:ARG:HE	1.54	0.71
1:O:209:HIS:HA	1:O:212:ARG:HE	1.55	0.71
1:AI:209:HIS:HA	1:AI:212:ARG:HE	1.54	0.71
1:C:212:ARG:NH2	1:D:226:ASP:HB2	2.04	0.71
1:d:209:HIS:HA	1:d:212:ARG:HE	1.55	0.71
1:4:386:ALA:HB1	1:4:390:ARG:NH1	2.06	0.71
1:5:386:ALA:HB1	1:5:390:ARG:NH1	2.06	0.71
1:AI:386:ALA:HB1	1:AI:390:ARG:NH1	2.06	0.71
1:AK:386:ALA:HB1	1:AK:390:ARG:NH1	2.06	0.71
1:P:386:ALA:HB1	1:P:390:ARG:NH1	2.06	0.71
1:1:386:ALA:HB1	1:1:390:ARG:NH1	2.06	0.71
1:AN:209:HIS:HA	1:AN:212:ARG:HE	1.54	0.71
1:AN:386:ALA:HB1	1:AN:390:ARG:NH1	2.06	0.71
1:F:209:HIS:HA	1:F:212:ARG:HE	1.55	0.71
1:M:209:HIS:HA	1:M:212:ARG:HE	1.55	0.71
1:d:386:ALA:HB1	1:d:390:ARG:NH1	2.06	0.71
1:j:386:ALA:HB1	1:j:390:ARG:NH1	2.06	0.71
1:A:209:HIS:HA	1:A:212:ARG:HE	1.55	0.71
1:AL:209:HIS:HA	1:AL:212:ARG:HE	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:209:HIS:HA	1:AO:212:ARG:HE	1.54	0.71
1:E:209:HIS:HA	1:E:212:ARG:HE	1.55	0.71
1:G:209:HIS:HA	1:G:212:ARG:HE	1.55	0.71
1:T:386:ALA:HB1	1:T:390:ARG:NH1	2.06	0.71
1:AA:386:ALA:HB1	1:AA:390:ARG:NH1	2.06	0.71
1:B:386:ALA:HB1	1:B:390:ARG:NH1	2.06	0.71
1:J:386:ALA:HB1	1:J:390:ARG:NH1	2.06	0.71
1:M:386:ALA:HB1	1:M:390:ARG:NH1	2.06	0.71
1:N:386:ALA:HB1	1:N:390:ARG:NH1	2.06	0.71
1:Q:209:HIS:HA	1:Q:212:ARG:HE	1.55	0.71
1:R:209:HIS:HA	1:R:212:ARG:HE	1.55	0.71
1:Y:386:ALA:HB1	1:Y:390:ARG:NH1	2.06	0.71
1:k:386:ALA:HB1	1:k:390:ARG:NH1	2.06	0.71
1:l:386:ALA:HB1	1:l:390:ARG:NH1	2.06	0.71
1:y:386:ALA:HB1	1:y:390:ARG:NH1	2.06	0.71
1:AH:386:ALA:HB1	1:AH:390:ARG:NH1	2.06	0.71
1:AK:209:HIS:HA	1:AK:212:ARG:HE	1.54	0.71
1:AP:386:ALA:HB1	1:AP:390:ARG:NH1	2.06	0.71
1:K:386:ALA:HB1	1:K:390:ARG:NH1	2.06	0.71
1:V:209:HIS:HA	1:V:212:ARG:HE	1.55	0.71
1:Z:386:ALA:HB1	1:Z:390:ARG:NH1	2.06	0.71
1:b:386:ALA:HB1	1:b:390:ARG:NH1	2.06	0.71
1:c:386:ALA:HB1	1:c:390:ARG:NH1	2.06	0.71
1:e:386:ALA:HB1	1:e:390:ARG:NH1	2.06	0.71
1:0:386:ALA:HB1	1:0:390:ARG:NH1	2.06	0.70
1:2:386:ALA:HB1	1:2:390:ARG:NH1	2.06	0.70
1:3:386:ALA:HB1	1:3:390:ARG:NH1	2.06	0.70
1:AR:386:ALA:HB1	1:AR:390:ARG:NH1	2.06	0.70
1:C:386:ALA:HB1	1:C:390:ARG:NH1	2.06	0.70
1:D:386:ALA:HB1	1:D:390:ARG:HH12	1.56	0.70
1:D:386:ALA:HB1	1:D:390:ARG:NH1	2.06	0.70
1:H:209:HIS:HA	1:H:212:ARG:HE	1.54	0.70
1:6:386:ALA:HB1	1:6:390:ARG:NH1	2.06	0.70
1:AB:209:HIS:HA	1:AB:212:ARG:HE	1.54	0.70
1:AC:386:ALA:HB1	1:AC:390:ARG:NH1	2.06	0.70
1:AD:386:ALA:HB1	1:AD:390:ARG:HH12	1.56	0.70
1:AD:386:ALA:HB1	1:AD:390:ARG:NH1	2.06	0.70
1:AF:386:ALA:HB1	1:AF:390:ARG:HH12	1.57	0.70
1:AG:400:TYR:HB3	1:AH:368:GLY:HA3	1.73	0.70
1:AQ:386:ALA:HB1	1:AQ:390:ARG:NH1	2.06	0.70
1:I:386:ALA:HB1	1:I:390:ARG:NH1	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:386:ALA:HB1	1:Q:390:ARG:NH1	2.06	0.70
1:Q:386:ALA:HB1	1:Q:390:ARG:HH12	1.56	0.70
1:W:386:ALA:HB1	1:W:390:ARG:NH1	2.06	0.70
1:p:386:ALA:HB1	1:p:390:ARG:NH1	2.06	0.70
1:7:360:GLN:HA	1:7:363:LYS:HE3	1.74	0.70
1:AG:386:ALA:HB1	1:AG:390:ARG:NH1	2.06	0.70
1:K:386:ALA:HB1	1:K:390:ARG:HH12	1.57	0.70
1:e:386:ALA:HB1	1:e:390:ARG:HH12	1.57	0.70
1:8:386:ALA:HB1	1:8:390:ARG:NH1	2.06	0.70
1:AE:360:GLN:HA	1:AE:363:LYS:HE3	1.74	0.70
1:AF:386:ALA:HB1	1:AF:390:ARG:NH1	2.06	0.70
1:AH:386:ALA:HB1	1:AH:390:ARG:HH12	1.56	0.70
1:AJ:386:ALA:HB1	1:AJ:390:ARG:NH1	2.06	0.70
1:AP:209:HIS:HA	1:AP:212:ARG:HE	1.54	0.70
1:AP:400:TYR:HB3	1:AQ:368:GLY:HA3	1.74	0.70
1:AR:400:TYR:HB3	1:AS:368:GLY:HA3	1.73	0.70
1:O:386:ALA:HB1	1:O:390:ARG:NH1	2.06	0.70
1:S:386:ALA:HB1	1:S:390:ARG:HH12	1.56	0.70
1:U:386:ALA:HB1	1:U:390:ARG:HH12	1.57	0.70
1:X:386:ALA:HB1	1:X:390:ARG:HH12	1.57	0.70
1:X:386:ALA:HB1	1:X:390:ARG:NH1	2.06	0.70
1:b:209:HIS:HA	1:b:212:ARG:HE	1.54	0.70
1:c:209:HIS:HA	1:c:212:ARG:HE	1.55	0.70
1:o:386:ALA:HB1	1:o:390:ARG:NH1	2.06	0.70
1:u:386:ALA:HB1	1:u:390:ARG:HH12	1.56	0.70
1:v:386:ALA:HB1	1:v:390:ARG:NH1	2.06	0.70
1:2:360:GLN:HA	1:2:363:LYS:HE3	1.74	0.70
1:5:386:ALA:HB1	1:5:390:ARG:HH12	1.56	0.70
1:9:360:GLN:HA	1:9:363:LYS:HE3	1.74	0.70
1:AA:209:HIS:HA	1:AA:212:ARG:HE	1.54	0.70
1:AA:386:ALA:HB1	1:AA:390:ARG:HH12	1.57	0.70
1:AI:386:ALA:HB1	1:AI:390:ARG:HH12	1.56	0.70
1:AO:386:ALA:HB1	1:AO:390:ARG:HH12	1.57	0.70
1:AO:386:ALA:HB1	1:AO:390:ARG:NH1	2.06	0.70
1:AQ:209:HIS:HA	1:AQ:212:ARG:HE	1.54	0.70
1:B:386:ALA:HB1	1:B:390:ARG:HH12	1.57	0.70
1:H:386:ALA:HB1	1:H:390:ARG:NH1	2.06	0.70
1:M:386:ALA:HB1	1:M:390:ARG:HH12	1.56	0.70
1:N:360:GLN:HA	1:N:363:LYS:HE3	1.74	0.70
1:U:360:GLN:HA	1:U:363:LYS:HE3	1.74	0.70
1:Z:400:TYR:HB3	1:a:368:GLY:HA3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:386:ALA:HB1	1:b:390:ARG:HH12	1.57	0.70
1:k:386:ALA:HB1	1:k:390:ARG:HH12	1.56	0.70
1:n:360:GLN:HA	1:n:363:LYS:HE3	1.74	0.70
1:t:386:ALA:HB1	1:t:390:ARG:NH1	2.06	0.70
1:t:386:ALA:HB1	1:t:390:ARG:HH12	1.56	0.70
1:9:386:ALA:HB1	1:9:390:ARG:NH1	2.06	0.70
1:AC:386:ALA:HB1	1:AC:390:ARG:HH12	1.57	0.70
1:AG:386:ALA:HB1	1:AG:390:ARG:HH12	1.57	0.70
1:AN:400:TYR:HB3	1:AO:368:GLY:HA3	1.74	0.70
1:E:386:ALA:HB1	1:E:390:ARG:HH12	1.57	0.70
1:E:386:ALA:HB1	1:E:390:ARG:NH1	2.06	0.70
1:O:386:ALA:HB1	1:O:390:ARG:HH12	1.57	0.70
1:T:360:GLN:HA	1:T:363:LYS:HE3	1.74	0.70
1:c:386:ALA:HB1	1:c:390:ARG:HH12	1.57	0.70
1:d:195:TYR:OH	1:e:238:GLU:HA	1.92	0.70
1:f:386:ALA:HB1	1:f:390:ARG:NH1	2.06	0.70
1:j:209:HIS:HA	1:j:212:ARG:HE	1.55	0.70
1:k:209:HIS:HA	1:k:212:ARG:HE	1.54	0.70
1:m:386:ALA:HB1	1:m:390:ARG:HH12	1.57	0.70
1:m:386:ALA:HB1	1:m:390:ARG:NH1	2.06	0.70
1:t:360:GLN:HA	1:t:363:LYS:HE3	1.74	0.70
1:u:386:ALA:HB1	1:u:390:ARG:NH1	2.06	0.70
1:y:360:GLN:HA	1:y:363:LYS:HE3	1.74	0.70
1:AB:360:GLN:HA	1:AB:363:LYS:HE3	1.74	0.70
1:AC:360:GLN:HA	1:AC:363:LYS:HE3	1.74	0.70
1:AD:360:GLN:HA	1:AD:363:LYS:HE3	1.74	0.70
1:AL:183:GLU:HB3	1:I:320:ARG:HH22	1.56	0.70
1:AP:386:ALA:HB1	1:AP:390:ARG:HH12	1.57	0.70
1:P:360:GLN:HA	1:P:363:LYS:HE3	1.74	0.70
1:U:386:ALA:HB1	1:U:390:ARG:NH1	2.06	0.70
1:Z:360:GLN:HA	1:Z:363:LYS:HE3	1.74	0.70
1:a:386:ALA:HB1	1:a:390:ARG:HH12	1.57	0.70
1:n:386:ALA:HB1	1:n:390:ARG:NH1	2.06	0.70
1:s:386:ALA:HB1	1:s:390:ARG:NH1	2.06	0.70
1:u:360:GLN:HA	1:u:363:LYS:HE3	1.74	0.70
1:0:386:ALA:HB1	1:0:390:ARG:HH12	1.56	0.70
1:4:360:GLN:HA	1:4:363:LYS:HE3	1.74	0.70
1:A:386:ALA:HB1	1:A:390:ARG:HH12	1.56	0.70
1:AB:386:ALA:HB1	1:AB:390:ARG:NH1	2.06	0.70
1:AE:386:ALA:HB1	1:AE:390:ARG:HH12	1.57	0.70
1:AJ:360:GLN:HA	1:AJ:363:LYS:HE3	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:386:ALA:HB1	1:AK:390:ARG:HH12	1.56	0.70
1:K:368:GLY:HA3	1:L:400:TYR:HB3	1.74	0.70
1:L:386:ALA:HB1	1:L:390:ARG:NH1	2.06	0.70
1:V:386:ALA:HB1	1:V:390:ARG:HH12	1.56	0.70
1:W:209:HIS:HA	1:W:212:ARG:HE	1.55	0.70
1:a:386:ALA:HB1	1:a:390:ARG:NH1	2.06	0.70
1:i:386:ALA:HB1	1:i:390:ARG:NH1	2.06	0.70
1:x:386:ALA:HB1	1:x:390:ARG:NH1	2.06	0.70
1:0:209:HIS:HA	1:0:212:ARG:HE	1.55	0.70
1:A:386:ALA:HB1	1:A:390:ARG:NH1	2.06	0.70
1:AK:400:TYR:HB3	1:AL:368:GLY:HA3	1.73	0.70
1:AQ:386:ALA:HB1	1:AQ:390:ARG:HH12	1.57	0.70
1:E:400:TYR:HB3	1:F:368:GLY:HA3	1.73	0.70
1:G:360:GLN:HA	1:G:363:LYS:HE3	1.74	0.70
1:I:195:TYR:OH	1:J:238:GLU:HA	1.92	0.70
1:S:386:ALA:HB1	1:S:390:ARG:NH1	2.06	0.70
1:V:360:GLN:HA	1:V:363:LYS:HE3	1.74	0.70
1:f:360:GLN:HA	1:f:363:LYS:HE3	1.74	0.70
1:h:360:GLN:HA	1:h:363:LYS:HE3	1.74	0.70
1:h:400:TYR:HB3	1:i:368:GLY:HA3	1.74	0.70
1:j:360:GLN:HA	1:j:363:LYS:HE3	1.74	0.70
1:r:386:ALA:HB1	1:r:390:ARG:NH1	2.06	0.70
1:v:360:GLN:HA	1:v:363:LYS:HE3	1.74	0.70
1:x:400:TYR:HB3	1:y:368:GLY:HA3	1.73	0.70
1:z:386:ALA:HB1	1:z:390:ARG:HH12	1.56	0.70
1:1:360:GLN:HA	1:1:363:LYS:HE3	1.74	0.70
1:AE:386:ALA:HB1	1:AE:390:ARG:NH1	2.06	0.70
1:AL:386:ALA:HB1	1:AL:390:ARG:HH12	1.57	0.70
1:AN:360:GLN:HA	1:AN:363:LYS:HE3	1.74	0.70
1:AS:360:GLN:HA	1:AS:363:LYS:HE3	1.74	0.70
1:F:360:GLN:HA	1:F:363:LYS:HE3	1.74	0.70
1:G:386:ALA:HB1	1:G:390:ARG:NH1	2.06	0.70
1:R:386:ALA:HB1	1:R:390:ARG:NH1	2.06	0.70
1:S:195:TYR:OH	1:T:238:GLU:HA	1.92	0.70
1:V:386:ALA:HB1	1:V:390:ARG:NH1	2.06	0.70
1:X:209:HIS:HA	1:X:212:ARG:HE	1.55	0.70
1:Y:209:HIS:HA	1:Y:212:ARG:HE	1.55	0.70
1:Y:386:ALA:HB1	1:Y:390:ARG:HH12	1.56	0.70
1:h:386:ALA:HB1	1:h:390:ARG:NH1	2.06	0.70
1:r:386:ALA:HB1	1:r:390:ARG:HH12	1.56	0.70
1:w:386:ALA:HB1	1:w:390:ARG:HH12	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:386:ALA:HB1	1:AB:390:ARG:HH12	1.56	0.69
1:AH:360:GLN:HA	1:AH:363:LYS:HE3	1.74	0.69
1:AI:400:TYR:HB3	1:AJ:368:GLY:HA3	1.74	0.69
1:AL:360:GLN:HA	1:AL:363:LYS:HE3	1.74	0.69
1:AM:386:ALA:HB1	1:AM:390:ARG:NH1	2.06	0.69
1:AR:360:GLN:HA	1:AR:363:LYS:HE3	1.74	0.69
1:I:386:ALA:HB1	1:I:390:ARG:HH12	1.57	0.69
1:V:98:LYS:HE3	1:Y:101:PHE:HD2	1.56	0.69
1:l:386:ALA:HB1	1:l:390:ARG:HH12	1.56	0.69
1:v:386:ALA:HB1	1:v:390:ARG:HH12	1.57	0.69
1:AF:360:GLN:HA	1:AF:363:LYS:HE3	1.74	0.69
1:AG:360:GLN:HA	1:AG:363:LYS:HE3	1.74	0.69
1:AJ:386:ALA:HB1	1:AJ:390:ARG:HH12	1.57	0.69
1:AS:386:ALA:HB1	1:AS:390:ARG:NH1	2.06	0.69
1:G:386:ALA:HB1	1:G:390:ARG:HH12	1.57	0.69
1:J:360:GLN:HA	1:J:363:LYS:HE3	1.74	0.69
1:R:360:GLN:HA	1:R:363:LYS:HE3	1.74	0.69
1:r:360:GLN:HA	1:r:363:LYS:HE3	1.74	0.69
1:r:368:GLY:HA3	1:s:400:TYR:HB3	1.74	0.69
1:x:386:ALA:HB1	1:x:390:ARG:HH12	1.57	0.69
1:7:386:ALA:HB1	1:7:390:ARG:NH1	2.06	0.69
1:8:360:GLN:HA	1:8:363:LYS:HE3	1.74	0.69
1:T:386:ALA:HB1	1:T:390:ARG:HH12	1.56	0.69
1:j:386:ALA:HB1	1:j:390:ARG:HH12	1.57	0.69
1:p:386:ALA:HB1	1:p:390:ARG:HH12	1.57	0.69
1:6:360:GLN:HA	1:6:363:LYS:HE3	1.74	0.69
1:8:368:GLY:CA	1:9:400:TYR:HB3	2.20	0.69
1:AL:386:ALA:HB1	1:AL:390:ARG:NH1	2.06	0.69
1:AR:386:ALA:HB1	1:AR:390:ARG:HH12	1.56	0.69
1:H:386:ALA:HB1	1:H:390:ARG:HH12	1.57	0.69
1:Z:386:ALA:HB1	1:Z:390:ARG:HH12	1.56	0.69
1:g:386:ALA:HB1	1:g:390:ARG:NH1	2.06	0.69
1:j:368:GLY:CA	1:k:400:TYR:HB3	2.20	0.69
1:z:386:ALA:HB1	1:z:390:ARG:NH1	2.06	0.69
1:3:386:ALA:HB1	1:3:390:ARG:HH12	1.57	0.69
1:AM:386:ALA:HB1	1:AM:390:ARG:HH12	1.56	0.69
1:AQ:360:GLN:HA	1:AQ:363:LYS:HE3	1.74	0.69
1:AS:386:ALA:HB1	1:AS:390:ARG:HH12	1.57	0.69
1:F:386:ALA:HB1	1:F:390:ARG:NH1	2.06	0.69
1:R:386:ALA:HB1	1:R:390:ARG:HH12	1.56	0.69
1:q:386:ALA:HB1	1:q:390:ARG:HH12	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:386:ALA:HB1	1:s:390:ARG:HH12	1.57	0.69
1:w:360:GLN:HA	1:w:363:LYS:HE3	1.74	0.69
1:w:386:ALA:HB1	1:w:390:ARG:NH1	2.06	0.69
1:4:386:ALA:HB1	1:4:390:ARG:HH12	1.56	0.69
1:C:386:ALA:HB1	1:C:390:ARG:HH12	1.56	0.69
1:g:386:ALA:HB1	1:g:390:ARG:HH12	1.57	0.69
1:q:386:ALA:HB1	1:q:390:ARG:NH1	2.06	0.69
1:2:195:TYR:OH	1:3:238:GLU:HA	1.92	0.69
1:3:360:GLN:HA	1:3:363:LYS:HE3	1.74	0.69
1:AN:386:ALA:HB1	1:AN:390:ARG:HH12	1.57	0.69
1:L:360:GLN:HA	1:L:363:LYS:HE3	1.74	0.69
1:S:360:GLN:HA	1:S:363:LYS:HE3	1.74	0.69
1:b:360:GLN:HA	1:b:363:LYS:HE3	1.74	0.69
1:x:360:GLN:HA	1:x:363:LYS:HE3	1.74	0.69
1:1:386:ALA:HB1	1:1:390:ARG:HH12	1.56	0.69
1:8:386:ALA:HB1	1:8:390:ARG:HH12	1.57	0.69
1:E:360:GLN:HA	1:E:363:LYS:HE3	1.74	0.69
1:N:386:ALA:HB1	1:N:390:ARG:HH12	1.57	0.69
1:X:360:GLN:HA	1:X:363:LYS:HE3	1.74	0.69
1:d:360:GLN:HA	1:d:363:LYS:HE3	1.74	0.69
1:o:360:GLN:HA	1:o:363:LYS:HE3	1.74	0.69
1:z:360:GLN:HA	1:z:363:LYS:HE3	1.74	0.69
1:AC:195:TYR:OH	1:AD:238:GLU:HA	1.92	0.69
1:B:360:GLN:HA	1:B:363:LYS:HE3	1.74	0.69
1:C:360:GLN:HA	1:C:363:LYS:HE3	1.74	0.69
1:d:98:LYS:HE3	1:m:101:PHE:CD2	2.26	0.69
1:d:386:ALA:HB1	1:d:390:ARG:HH12	1.57	0.69
1:A:360:GLN:HA	1:A:363:LYS:HE3	1.74	0.69
1:P:386:ALA:HB1	1:P:390:ARG:HH12	1.57	0.69
1:k:360:GLN:HA	1:k:363:LYS:HE3	1.74	0.69
1:2:386:ALA:HB1	1:2:390:ARG:HH12	1.57	0.68
1:6:386:ALA:HB1	1:6:390:ARG:HH12	1.57	0.68
1:AK:360:GLN:HA	1:AK:363:LYS:HE3	1.74	0.68
1:K:360:GLN:HA	1:K:363:LYS:HE3	1.74	0.68
1:W:386:ALA:HB1	1:W:390:ARG:HH12	1.57	0.68
1:e:360:GLN:HA	1:e:363:LYS:HE3	1.74	0.68
1:f:386:ALA:HB1	1:f:390:ARG:HH12	1.57	0.68
1:g:360:GLN:HA	1:g:363:LYS:HE3	1.74	0.68
1:i:360:GLN:HA	1:i:363:LYS:HE3	1.74	0.68
1:m:360:GLN:HA	1:m:363:LYS:HE3	1.74	0.68
1:y:386:ALA:HB1	1:y:390:ARG:HH12	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:360:GLN:HA	1:AI:363:LYS:HE3	1.74	0.68
1:p:360:GLN:HA	1:p:363:LYS:HE3	1.74	0.68
1:7:386:ALA:HB1	1:7:390:ARG:HH12	1.57	0.68
1:a:360:GLN:HA	1:a:363:LYS:HE3	1.74	0.68
1:s:360:GLN:HA	1:s:363:LYS:HE3	1.74	0.68
1:AA:360:GLN:HA	1:AA:363:LYS:HE3	1.74	0.68
1:AO:360:GLN:HA	1:AO:363:LYS:HE3	1.74	0.68
1:F:386:ALA:HB1	1:F:390:ARG:HH12	1.56	0.68
1:O:360:GLN:HA	1:O:363:LYS:HE3	1.74	0.68
1:Q:360:GLN:HA	1:Q:363:LYS:HE3	1.74	0.68
1:c:360:GLN:HA	1:c:363:LYS:HE3	1.74	0.68
1:i:386:ALA:HB1	1:i:390:ARG:HH12	1.57	0.68
1:q:360:GLN:HA	1:q:363:LYS:HE3	1.74	0.68
1:5:360:GLN:HA	1:5:363:LYS:HE3	1.74	0.68
1:AE:368:GLY:HA3	1:AF:400:TYR:HB3	1.74	0.68
1:AM:360:GLN:HA	1:AM:363:LYS:HE3	1.74	0.68
1:AP:360:GLN:HA	1:AP:363:LYS:HE3	1.74	0.68
1:h:386:ALA:HB1	1:h:390:ARG:HH12	1.56	0.68
1:0:360:GLN:HA	1:0:363:LYS:HE3	1.74	0.68
1:I:360:GLN:HA	1:I:363:LYS:HE3	1.74	0.68
1:J:386:ALA:HB1	1:J:390:ARG:HH12	1.57	0.68
1:W:360:GLN:HA	1:W:363:LYS:HE3	1.74	0.68
1:Y:360:GLN:HA	1:Y:363:LYS:HE3	1.74	0.68
1:l:360:GLN:HA	1:l:363:LYS:HE3	1.74	0.68
1:n:386:ALA:HB1	1:n:390:ARG:HH12	1.57	0.68
1:4:368:GLY:HA3	1:5:400:TYR:HB3	1.74	0.68
1:9:386:ALA:HB1	1:9:390:ARG:HH12	1.57	0.68
1:H:360:GLN:HA	1:H:363:LYS:HE3	1.74	0.68
1:L:386:ALA:HB1	1:L:390:ARG:HH12	1.57	0.68
1:M:360:GLN:HA	1:M:363:LYS:HE3	1.74	0.68
1:Q:195:TYR:OH	1:R:238:GLU:HA	1.94	0.68
1:D:360:GLN:HA	1:D:363:LYS:HE3	1.74	0.68
1:n:195:TYR:OH	1:o:238:GLU:HA	1.94	0.67
1:v:202:HIS:HE1	1:w:237:CYS:HB3	1.59	0.67
1:C:368:GLY:CA	1:D:400:TYR:HB3	2.20	0.67
1:o:386:ALA:HB1	1:o:390:ARG:HH12	1.56	0.67
1:O:202:HIS:HE1	1:P:237:CYS:HB3	1.59	0.67
1:G:195:TYR:OH	1:H:238:GLU:HA	1.95	0.67
1:v:368:GLY:CA	1:w:400:TYR:HB3	2.20	0.67
1:2:202:HIS:HB3	1:3:234:LEU:HA	1.77	0.67
1:AC:202:HIS:HB3	1:AD:234:LEU:HA	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:382:ALA:HB3	1:w:386:ALA:HB2	1.76	0.67
1:C:202:HIS:HE1	1:D:237:CYS:HB3	1.59	0.67
1:j:202:HIS:HE1	1:k:237:CYS:HB3	1.59	0.66
1:O:382:ALA:HB3	1:P:386:ALA:HB2	1.76	0.66
1:d:202:HIS:HB3	1:e:234:LEU:HA	1.77	0.66
1:V:212:ARG:HH22	1:W:223:SER:HA	1.60	0.66
1:j:382:ALA:HB3	1:k:386:ALA:HB2	1.76	0.66
1:8:382:ALA:HB3	1:9:386:ALA:HB2	1.76	0.66
1:1:238:GLU:HA	1:z:195:TYR:OH	1.95	0.66
1:AA:195:TYR:OH	1:AB:238:GLU:HA	1.94	0.66
1:C:382:ALA:HB3	1:D:386:ALA:HB2	1.76	0.66
1:S:202:HIS:HB3	1:T:234:LEU:HA	1.77	0.66
1:I:202:HIS:HB3	1:J:234:LEU:HA	1.77	0.66
1:M:212:ARG:HH22	1:N:223:SER:HA	1.60	0.66
1:t:212:ARG:HH22	1:u:223:SER:HA	1.60	0.66
1:8:202:HIS:HE1	1:9:237:CYS:HB3	1.59	0.66
1:O:368:GLY:CA	1:P:400:TYR:HB3	2.20	0.65
1:6:212:ARG:HH22	1:7:223:SER:HA	1.60	0.65
1:r:213:LEU:HD11	1:s:227:PHE:HB2	1.79	0.65
1:2:320:ARG:NH2	1:AO:183:GLU:HB3	2.09	0.65
1:A:212:ARG:NH2	1:B:226:ASP:HB2	2.12	0.65
1:K:213:LEU:HD11	1:L:227:PHE:HB2	1.79	0.65
1:4:223:SER:HB2	1:5:213:LEU:HD23	1.79	0.65
1:6:212:ARG:NH2	1:7:226:ASP:HB2	2.12	0.65
1:AQ:320:ARG:CD	1:p:185:THR:HG22	2.27	0.65
1:A:212:ARG:HH22	1:B:223:SER:HA	1.60	0.65
1:4:213:LEU:HD11	1:5:227:PHE:HB2	1.79	0.65
1:V:212:ARG:NH2	1:W:226:ASP:HB2	2.12	0.65
1:2:311:ILE:CD1	1:AO:307:LYS:HB3	2.28	0.64
1:AE:223:SER:HB2	1:AF:213:LEU:HD23	1.79	0.64
1:M:212:ARG:NH2	1:N:226:ASP:HB2	2.12	0.64
1:AE:213:LEU:HD11	1:AF:227:PHE:HB2	1.79	0.64
1:r:223:SER:HB2	1:s:213:LEU:HD23	1.79	0.64
1:2:209:HIS:CD2	1:3:226:ASP:HB3	2.33	0.64
1:C:223:SER:HB2	1:D:213:LEU:HD23	1.80	0.64
1:I:209:HIS:CD2	1:J:226:ASP:HB3	2.33	0.64
1:S:209:HIS:CD2	1:T:226:ASP:HB3	2.33	0.64
1:v:223:SER:HB2	1:w:213:LEU:HD23	1.80	0.64
1:t:212:ARG:NH2	1:u:226:ASP:HB2	2.12	0.64
1:K:223:SER:HB2	1:L:213:LEU:HD23	1.79	0.64
1:G:223:SER:HB2	1:H:213:LEU:HD23	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:223:SER:HB2	1:k:213:LEU:HD23	1.80	0.63
1:n:223:SER:HB2	1:o:213:LEU:HD23	1.81	0.63
1:d:209:HIS:CD2	1:e:226:ASP:HB3	2.33	0.63
1:Z:254:GLU:HB3	1:g:47:ARG:HH12	1.63	0.63
1:X:400:TYR:HB3	1:Y:368:GLY:HA3	1.81	0.63
1:O:223:SER:HB2	1:P:213:LEU:HD23	1.80	0.62
1:AC:209:HIS:CD2	1:AD:226:ASP:HB3	2.33	0.62
1:Q:223:SER:HB2	1:R:213:LEU:HD23	1.81	0.62
1:8:223:SER:HB2	1:9:213:LEU:HD23	1.80	0.62
1:AS:254:GLU:HB3	1:v:47:ARG:HH12	1.63	0.62
1:v:209:HIS:CD2	1:w:226:ASP:HB3	2.35	0.62
1:1:213:LEU:HD23	1:z:223:SER:HB2	1.81	0.62
1:j:209:HIS:CD2	1:k:226:ASP:HB3	2.35	0.62
1:6:212:ARG:HA	1:6:215:LYS:HE2	1.82	0.62
1:F:183:GLU:HB3	1:d:320:ARG:HH22	1.64	0.62
1:B:212:ARG:HA	1:B:215:LYS:HE2	1.82	0.62
1:2:320:ARG:HH21	1:AO:183:GLU:H	1.47	0.62
1:A:212:ARG:HA	1:A:215:LYS:HE2	1.82	0.62
1:AG:212:ARG:HA	1:AG:215:LYS:HE2	1.82	0.62
1:AS:212:ARG:HA	1:AS:215:LYS:HE2	1.82	0.62
1:G:212:ARG:HA	1:G:215:LYS:HE2	1.82	0.62
1:J:212:ARG:HA	1:J:215:LYS:HE2	1.82	0.62
1:U:212:ARG:HA	1:U:215:LYS:HE2	1.82	0.62
1:Z:212:ARG:HA	1:Z:215:LYS:HE2	1.82	0.62
1:r:212:ARG:HA	1:r:215:LYS:HE2	1.82	0.62
1:AA:223:SER:HB2	1:AB:213:LEU:HD23	1.81	0.62
1:C:209:HIS:CD2	1:D:226:ASP:HB3	2.35	0.62
1:5:212:ARG:HA	1:5:215:LYS:HE2	1.82	0.61
1:8:212:ARG:HA	1:8:215:LYS:HE2	1.82	0.61
1:f:212:ARG:HA	1:f:215:LYS:HE2	1.82	0.61
1:0:212:ARG:HA	1:0:215:LYS:HE2	1.82	0.61
1:8:209:HIS:CD2	1:9:226:ASP:HB3	2.35	0.61
1:AB:212:ARG:HA	1:AB:215:LYS:HE2	1.82	0.61
1:a:212:ARG:HA	1:a:215:LYS:HE2	1.82	0.61
1:w:212:ARG:HA	1:w:215:LYS:HE2	1.82	0.61
1:AA:212:ARG:HA	1:AA:215:LYS:HE2	1.82	0.61
1:AC:212:ARG:HA	1:AC:215:LYS:HE2	1.82	0.61
1:AH:212:ARG:HA	1:AH:215:LYS:HE2	1.82	0.61
1:AN:212:ARG:HA	1:AN:215:LYS:HE2	1.82	0.61
1:H:212:ARG:HA	1:H:215:LYS:HE2	1.82	0.61
1:I:212:ARG:HA	1:I:215:LYS:HE2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:212:ARG:HA	1:V:215:LYS:HE2	1.82	0.61
1:3:212:ARG:HA	1:3:215:LYS:HE2	1.82	0.61
1:C:212:ARG:HA	1:C:215:LYS:HE2	1.82	0.61
1:W:212:ARG:HA	1:W:215:LYS:HE2	1.82	0.61
1:7:212:ARG:HA	1:7:215:LYS:HE2	1.82	0.61
1:AM:212:ARG:HA	1:AM:215:LYS:HE2	1.82	0.61
1:AO:212:ARG:HA	1:AO:215:LYS:HE2	1.82	0.61
1:AR:212:ARG:HA	1:AR:215:LYS:HE2	1.82	0.61
1:D:212:ARG:HA	1:D:215:LYS:HE2	1.82	0.61
1:O:209:HIS:CD2	1:P:226:ASP:HB3	2.35	0.61
1:e:212:ARG:HA	1:e:215:LYS:HE2	1.82	0.61
1:AK:212:ARG:HA	1:AK:215:LYS:HE2	1.82	0.61
1:AQ:212:ARG:HA	1:AQ:215:LYS:HE2	1.82	0.61
1:L:200:GLU:HA	1:L:203:LEU:HG	1.83	0.61
1:P:212:ARG:HA	1:P:215:LYS:HE2	1.82	0.61
1:h:212:ARG:HA	1:h:215:LYS:HE2	1.82	0.61
1:x:212:ARG:HA	1:x:215:LYS:HE2	1.82	0.61
1:2:311:ILE:HD12	1:AO:307:LYS:HB3	1.82	0.61
1:C:200:GLU:HA	1:C:203:LEU:HG	1.83	0.61
1:D:200:GLU:HA	1:D:203:LEU:HG	1.83	0.61
1:G:200:GLU:HA	1:G:203:LEU:HG	1.83	0.61
1:L:212:ARG:HA	1:L:215:LYS:HE2	1.82	0.61
1:r:200:GLU:HA	1:r:203:LEU:HG	1.83	0.61
1:s:212:ARG:HA	1:s:215:LYS:HE2	1.82	0.61
1:A:200:GLU:HA	1:A:203:LEU:HG	1.83	0.61
1:AD:212:ARG:HA	1:AD:215:LYS:HE2	1.82	0.61
1:AL:212:ARG:HA	1:AL:215:LYS:HE2	1.82	0.61
1:AN:200:GLU:HA	1:AN:203:LEU:HG	1.83	0.61
1:AQ:200:GLU:HA	1:AQ:203:LEU:HG	1.83	0.61
1:B:200:GLU:HA	1:B:203:LEU:HG	1.83	0.61
1:F:200:GLU:HA	1:F:203:LEU:HG	1.83	0.61
1:K:200:GLU:HA	1:K:203:LEU:HG	1.83	0.61
1:V:200:GLU:HA	1:V:203:LEU:HG	1.83	0.61
1:X:212:ARG:HA	1:X:215:LYS:HE2	1.82	0.61
1:e:200:GLU:HA	1:e:203:LEU:HG	1.83	0.61
1:q:200:GLU:HA	1:q:203:LEU:HG	1.83	0.61
1:s:200:GLU:HA	1:s:203:LEU:HG	1.83	0.61
1:2:200:GLU:HA	1:2:203:LEU:HG	1.83	0.61
1:4:212:ARG:HA	1:4:215:LYS:HE2	1.82	0.61
1:AJ:200:GLU:HA	1:AJ:203:LEU:HG	1.83	0.61
1:AL:200:GLU:HA	1:AL:203:LEU:HG	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:200:GLU:HA	1:E:203:LEU:HG	1.83	0.61
1:T:212:ARG:HA	1:T:215:LYS:HE2	1.82	0.61
1:d:200:GLU:HA	1:d:203:LEU:HG	1.83	0.61
1:g:212:ARG:HA	1:g:215:LYS:HE2	1.82	0.61
1:j:200:GLU:HA	1:j:203:LEU:HG	1.83	0.61
1:j:212:ARG:HA	1:j:215:LYS:HE2	1.82	0.61
1:9:212:ARG:HA	1:9:215:LYS:HE2	1.82	0.61
1:AP:212:ARG:HA	1:AP:215:LYS:HE2	1.82	0.61
1:F:212:ARG:HA	1:F:215:LYS:HE2	1.82	0.61
1:J:200:GLU:HA	1:J:203:LEU:HG	1.83	0.61
1:N:200:GLU:HA	1:N:203:LEU:HG	1.83	0.61
1:b:200:GLU:HA	1:b:203:LEU:HG	1.83	0.61
1:d:212:ARG:HA	1:d:215:LYS:HE2	1.82	0.61
1:n:200:GLU:HA	1:n:203:LEU:HG	1.83	0.61
1:p:200:GLU:HA	1:p:203:LEU:HG	1.83	0.61
1:p:212:ARG:HA	1:p:215:LYS:HE2	1.82	0.61
1:2:212:ARG:HA	1:2:215:LYS:HE2	1.82	0.60
1:2:307:LYS:HB3	1:AO:311:ILE:HD12	1.82	0.60
1:AP:200:GLU:HA	1:AP:203:LEU:HG	1.83	0.60
1:H:200:GLU:HA	1:H:203:LEU:HG	1.83	0.60
1:I:200:GLU:HA	1:I:203:LEU:HG	1.83	0.60
1:K:212:ARG:HA	1:K:215:LYS:HE2	1.82	0.60
1:O:212:ARG:HA	1:O:215:LYS:HE2	1.82	0.60
1:S:212:ARG:HA	1:S:215:LYS:HE2	1.82	0.60
1:Z:200:GLU:HA	1:Z:203:LEU:HG	1.83	0.60
1:c:200:GLU:HA	1:c:203:LEU:HG	1.83	0.60
1:k:200:GLU:HA	1:k:203:LEU:HG	1.83	0.60
1:k:212:ARG:HA	1:k:215:LYS:HE2	1.82	0.60
1:4:200:GLU:HA	1:4:203:LEU:HG	1.83	0.60
1:AF:212:ARG:HA	1:AF:215:LYS:HE2	1.82	0.60
1:AI:212:ARG:HA	1:AI:215:LYS:HE2	1.82	0.60
1:Y:200:GLU:HA	1:Y:203:LEU:HG	1.83	0.60
1:o:212:ARG:HA	1:o:215:LYS:HE2	1.82	0.60
1:q:212:ARG:HA	1:q:215:LYS:HE2	1.82	0.60
1:z:212:ARG:HA	1:z:215:LYS:HE2	1.82	0.60
1:AB:200:GLU:HA	1:AB:203:LEU:HG	1.83	0.60
1:AM:200:GLU:HA	1:AM:203:LEU:HG	1.83	0.60
1:R:212:ARG:HA	1:R:215:LYS:HE2	1.82	0.60
1:T:200:GLU:HA	1:T:203:LEU:HG	1.83	0.60
1:W:200:GLU:HA	1:W:203:LEU:HG	1.83	0.60
1:b:212:ARG:HA	1:b:215:LYS:HE2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:200:GLU:HA	1:m:203:LEU:HG	1.83	0.60
1:u:212:ARG:HA	1:u:215:LYS:HE2	1.82	0.60
1:v:212:ARG:HA	1:v:215:LYS:HE2	1.82	0.60
1:0:200:GLU:HA	1:0:203:LEU:HG	1.83	0.60
1:7:200:GLU:HA	1:7:203:LEU:HG	1.83	0.60
1:AC:200:GLU:HA	1:AC:203:LEU:HG	1.83	0.60
1:AI:200:GLU:HA	1:AI:203:LEU:HG	1.83	0.60
1:AO:200:GLU:HA	1:AO:203:LEU:HG	1.83	0.60
1:M:200:GLU:HA	1:M:203:LEU:HG	1.83	0.60
1:P:200:GLU:HA	1:P:203:LEU:HG	1.83	0.60
1:Q:200:GLU:HA	1:Q:203:LEU:HG	1.83	0.60
1:Q:212:ARG:NH2	1:R:226:ASP:HB2	2.16	0.60
1:R:200:GLU:HA	1:R:203:LEU:HG	1.83	0.60
1:S:200:GLU:HA	1:S:203:LEU:HG	1.83	0.60
1:X:200:GLU:HA	1:X:203:LEU:HG	1.83	0.60
1:h:200:GLU:HA	1:h:203:LEU:HG	1.83	0.60
1:l:200:GLU:HA	1:l:203:LEU:HG	1.83	0.60
1:t:212:ARG:HA	1:t:215:LYS:HE2	1.82	0.60
1:1:200:GLU:HA	1:1:203:LEU:HG	1.83	0.60
1:1:212:ARG:HA	1:1:215:LYS:HE2	1.82	0.60
1:AE:212:ARG:HA	1:AE:215:LYS:HE2	1.82	0.60
1:AJ:212:ARG:HA	1:AJ:215:LYS:HE2	1.82	0.60
1:m:212:ARG:HA	1:m:215:LYS:HE2	1.82	0.60
1:y:200:GLU:HA	1:y:203:LEU:HG	1.83	0.60
1:1:226:ASP:HB2	1:z:212:ARG:NH2	2.16	0.60
1:AA:200:GLU:HA	1:AA:203:LEU:HG	1.83	0.60
1:AA:212:ARG:NH2	1:AB:226:ASP:HB2	2.16	0.60
1:O:200:GLU:HA	1:O:203:LEU:HG	1.83	0.60
1:Y:212:ARG:HA	1:Y:215:LYS:HE2	1.82	0.60
1:6:200:GLU:HA	1:6:203:LEU:HG	1.83	0.60
1:AR:200:GLU:HA	1:AR:203:LEU:HG	1.83	0.60
1:E:212:ARG:HA	1:E:215:LYS:HE2	1.82	0.60
1:N:212:ARG:HA	1:N:215:LYS:HE2	1.82	0.60
1:Q:212:ARG:HA	1:Q:215:LYS:HE2	1.82	0.60
1:i:200:GLU:HA	1:i:203:LEU:HG	1.83	0.60
1:i:212:ARG:HA	1:i:215:LYS:HE2	1.82	0.60
1:n:212:ARG:HA	1:n:215:LYS:HE2	1.82	0.60
1:y:212:ARG:HA	1:y:215:LYS:HE2	1.82	0.60
1:AE:200:GLU:HA	1:AE:203:LEU:HG	1.83	0.60
1:AK:200:GLU:HA	1:AK:203:LEU:HG	1.83	0.60
1:M:212:ARG:HA	1:M:215:LYS:HE2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:212:ARG:HA	1:c:215:LYS:HE2	1.82	0.60
1:f:200:GLU:HA	1:f:203:LEU:HG	1.83	0.60
1:l:212:ARG:HA	1:l:215:LYS:HE2	1.82	0.60
1:t:200:GLU:HA	1:t:203:LEU:HG	1.83	0.60
1:v:200:GLU:HA	1:v:203:LEU:HG	1.83	0.60
1:8:200:GLU:HA	1:8:203:LEU:HG	1.83	0.60
1:9:200:GLU:HA	1:9:203:LEU:HG	1.83	0.60
1:AH:200:GLU:HA	1:AH:203:LEU:HG	1.83	0.60
1:AS:200:GLU:HA	1:AS:203:LEU:HG	1.83	0.60
1:V:98:LYS:HE3	1:Y:101:PHE:CD2	2.36	0.60
1:g:200:GLU:HA	1:g:203:LEU:HG	1.83	0.60
1:o:200:GLU:HA	1:o:203:LEU:HG	1.83	0.60
1:5:200:GLU:HA	1:5:203:LEU:HG	1.83	0.60
1:AG:200:GLU:HA	1:AG:203:LEU:HG	1.83	0.60
1:U:200:GLU:HA	1:U:203:LEU:HG	1.83	0.60
1:a:200:GLU:HA	1:a:203:LEU:HG	1.83	0.60
1:z:200:GLU:HA	1:z:203:LEU:HG	1.83	0.60
1:1:234:LEU:HA	1:z:202:HIS:HB3	1.84	0.59
1:3:200:GLU:HA	1:3:203:LEU:HG	1.83	0.59
1:AD:200:GLU:HA	1:AD:203:LEU:HG	1.83	0.59
1:J:88:PRO:HB2	1:J:116:PHE:HD1	1.68	0.59
1:n:209:HIS:CD2	1:o:226:ASP:HB3	2.37	0.59
1:n:212:ARG:NH2	1:o:226:ASP:HB2	2.16	0.59
1:1:88:PRO:HB2	1:1:116:PHE:HD1	1.68	0.59
1:9:88:PRO:HB2	1:9:116:PHE:HD1	1.68	0.59
1:F:88:PRO:HB2	1:F:116:PHE:HD1	1.68	0.59
1:Z:88:PRO:HB2	1:Z:116:PHE:HD1	1.68	0.59
1:y:88:PRO:HB2	1:y:116:PHE:HD1	1.68	0.59
1:6:211:TYR:CZ	1:6:215:LYS:HD3	2.38	0.59
1:AA:202:HIS:HB3	1:AB:234:LEU:HA	1.84	0.59
1:AF:211:TYR:CZ	1:AF:215:LYS:HD3	2.37	0.59
1:G:212:ARG:NH2	1:H:226:ASP:HB2	2.16	0.59
1:T:88:PRO:HB2	1:T:116:PHE:HD1	1.68	0.59
1:u:211:TYR:CZ	1:u:215:LYS:HD3	2.38	0.59
1:w:200:GLU:HA	1:w:203:LEU:HG	1.83	0.59
1:w:211:TYR:CZ	1:w:215:LYS:HD3	2.38	0.59
1:1:226:ASP:HB3	1:z:209:HIS:CD2	2.37	0.59
1:AF:200:GLU:HA	1:AF:203:LEU:HG	1.83	0.59
1:AR:88:PRO:HB2	1:AR:116:PHE:HD1	1.68	0.59
1:AR:211:TYR:CZ	1:AR:215:LYS:HD3	2.38	0.59
1:Q:202:HIS:HB3	1:R:234:LEU:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:88:PRO:HB2	1:R:116:PHE:HD1	1.68	0.59
1:d:88:PRO:HB2	1:d:116:PHE:HD1	1.68	0.59
1:i:211:TYR:CZ	1:i:215:LYS:HD3	2.38	0.59
1:t:88:PRO:HB2	1:t:116:PHE:HD1	1.68	0.59
1:v:88:PRO:HB2	1:v:116:PHE:HD1	1.68	0.59
1:x:227:PHE:HB2	1:y:213:LEU:HD11	1.85	0.59
1:A:88:PRO:HB2	1:A:116:PHE:HD1	1.68	0.59
1:AA:209:HIS:CD2	1:AB:226:ASP:HB3	2.37	0.59
1:AE:88:PRO:HB2	1:AE:116:PHE:HD1	1.68	0.59
1:AK:227:PHE:HB2	1:AL:213:LEU:HD11	1.85	0.59
1:AQ:211:TYR:CZ	1:AQ:215:LYS:HD3	2.38	0.59
1:C:88:PRO:HB2	1:C:116:PHE:HD1	1.68	0.59
1:L:88:PRO:HB2	1:L:116:PHE:HD1	1.68	0.59
1:Q:209:HIS:CD2	1:R:226:ASP:HB3	2.37	0.59
1:U:88:PRO:HB2	1:U:116:PHE:HD1	1.68	0.59
1:f:88:PRO:HB2	1:f:116:PHE:HD1	1.68	0.59
1:o:211:TYR:CZ	1:o:215:LYS:HD3	2.38	0.59
1:u:200:GLU:HA	1:u:203:LEU:HG	1.83	0.59
1:x:200:GLU:HA	1:x:203:LEU:HG	1.83	0.59
1:7:88:PRO:HB2	1:7:116:PHE:HD1	1.68	0.59
1:AC:88:PRO:HB2	1:AC:116:PHE:HD1	1.68	0.59
1:AI:227:PHE:HB2	1:AJ:213:LEU:HD11	1.85	0.59
1:AK:211:TYR:CZ	1:AK:215:LYS:HD3	2.38	0.59
1:AN:88:PRO:HB2	1:AN:116:PHE:HD1	1.68	0.59
1:G:209:HIS:CD2	1:H:226:ASP:HB3	2.37	0.59
1:b:211:TYR:CZ	1:b:215:LYS:HD3	2.38	0.59
1:j:211:TYR:CZ	1:j:215:LYS:HD3	2.38	0.59
1:r:88:PRO:HB2	1:r:116:PHE:HD1	1.68	0.59
1:0:211:TYR:CZ	1:0:215:LYS:HD3	2.38	0.59
1:8:211:TYR:CZ	1:8:215:LYS:HD3	2.38	0.59
1:A:211:TYR:CZ	1:A:215:LYS:HD3	2.38	0.59
1:AA:211:TYR:CZ	1:AA:215:LYS:HD3	2.38	0.59
1:AQ:88:PRO:HB2	1:AQ:116:PHE:HD1	1.68	0.59
1:B:211:TYR:CZ	1:B:215:LYS:HD3	2.38	0.59
1:R:211:TYR:CZ	1:R:215:LYS:HD3	2.38	0.59
1:U:211:TYR:CZ	1:U:215:LYS:HD3	2.38	0.59
1:V:211:TYR:CZ	1:V:215:LYS:HD3	2.37	0.59
1:X:211:TYR:CZ	1:X:215:LYS:HD3	2.38	0.59
1:g:211:TYR:CZ	1:g:215:LYS:HD3	2.38	0.59
1:h:88:PRO:HB2	1:h:116:PHE:HD1	1.68	0.59
1:l:88:PRO:HB2	1:l:116:PHE:HD1	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:88:PRO:HB2	1:AH:116:PHE:HD1	1.68	0.59
1:D:211:TYR:CZ	1:D:215:LYS:HD3	2.38	0.59
1:G:202:HIS:HB3	1:H:234:LEU:HA	1.84	0.59
1:K:211:TYR:CZ	1:K:215:LYS:HD3	2.38	0.59
1:e:211:TYR:CZ	1:e:215:LYS:HD3	2.38	0.59
1:j:88:PRO:HB2	1:j:116:PHE:HD1	1.68	0.59
1:m:88:PRO:HB2	1:m:116:PHE:HD1	1.68	0.59
1:p:88:PRO:HB2	1:p:116:PHE:HD1	1.68	0.59
1:r:211:TYR:CZ	1:r:215:LYS:HD3	2.38	0.59
1:v:211:TYR:CZ	1:v:215:LYS:HD3	2.37	0.59
1:3:211:TYR:CZ	1:3:215:LYS:HD3	2.38	0.59
1:AB:211:TYR:CZ	1:AB:215:LYS:HD3	2.38	0.59
1:AL:211:TYR:CZ	1:AL:215:LYS:HD3	2.38	0.59
1:AN:211:TYR:CZ	1:AN:215:LYS:HD3	2.38	0.59
1:C:211:TYR:CZ	1:C:215:LYS:HD3	2.38	0.59
1:T:211:TYR:CZ	1:T:215:LYS:HD3	2.38	0.59
1:m:211:TYR:CZ	1:m:215:LYS:HD3	2.38	0.59
1:x:211:TYR:CZ	1:x:215:LYS:HD3	2.38	0.59
1:z:211:TYR:CZ	1:z:215:LYS:HD3	2.38	0.59
1:1:211:TYR:CZ	1:1:215:LYS:HD3	2.38	0.59
1:AD:88:PRO:HB2	1:AD:116:PHE:HD1	1.68	0.59
1:AD:211:TYR:CZ	1:AD:215:LYS:HD3	2.38	0.59
1:AG:211:TYR:CZ	1:AG:215:LYS:HD3	2.38	0.59
1:AG:227:PHE:HB2	1:AH:213:LEU:HD11	1.85	0.59
1:AS:211:TYR:CZ	1:AS:215:LYS:HD3	2.38	0.59
1:F:211:TYR:CZ	1:F:215:LYS:HD3	2.38	0.59
1:G:211:TYR:CZ	1:G:215:LYS:HD3	2.38	0.59
1:K:88:PRO:HB2	1:K:116:PHE:HD1	1.67	0.59
1:Q:211:TYR:CZ	1:Q:215:LYS:HD3	2.38	0.59
1:e:88:PRO:HB2	1:e:116:PHE:HD1	1.68	0.59
1:n:88:PRO:HB2	1:n:116:PHE:HD1	1.68	0.59
1:n:202:HIS:HB3	1:o:234:LEU:HA	1.84	0.59
1:q:88:PRO:HB2	1:q:116:PHE:HD1	1.68	0.59
1:AI:211:TYR:CZ	1:AI:215:LYS:HD3	2.38	0.58
1:AJ:211:TYR:CZ	1:AJ:215:LYS:HD3	2.38	0.58
1:E:211:TYR:CZ	1:E:215:LYS:HD3	2.38	0.58
1:I:211:TYR:CZ	1:I:215:LYS:HD3	2.38	0.58
1:AG:88:PRO:HB2	1:AG:116:PHE:HD1	1.68	0.58
1:AP:211:TYR:CZ	1:AP:215:LYS:HD3	2.38	0.58
1:AR:227:PHE:HB2	1:AS:213:LEU:HD11	1.85	0.58
1:d:211:TYR:CZ	1:d:215:LYS:HD3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:88:PRO:HB2	1:B:116:PHE:HD1	1.67	0.58
1:E:227:PHE:HB2	1:F:213:LEU:HD11	1.85	0.58
1:I:88:PRO:HB2	1:I:116:PHE:HD1	1.68	0.58
1:S:211:TYR:CZ	1:S:215:LYS:HD3	2.38	0.58
1:a:211:TYR:CZ	1:a:215:LYS:HD3	2.38	0.58
1:q:211:TYR:CZ	1:q:215:LYS:HD3	2.38	0.58
1:2:88:PRO:HB2	1:2:116:PHE:HD1	1.68	0.58
1:4:88:PRO:HB2	1:4:116:PHE:HD1	1.68	0.58
1:4:211:TYR:CZ	1:4:215:LYS:HD3	2.38	0.58
1:5:211:TYR:CZ	1:5:215:LYS:HD3	2.38	0.58
1:AO:211:TYR:CZ	1:AO:215:LYS:HD3	2.38	0.58
1:D:88:PRO:HB2	1:D:116:PHE:HD1	1.68	0.58
1:L:211:TYR:CZ	1:L:215:LYS:HD3	2.38	0.58
1:N:211:TYR:CZ	1:N:215:LYS:HD3	2.38	0.58
1:W:211:TYR:CZ	1:W:215:LYS:HD3	2.38	0.58
1:X:88:PRO:HB2	1:X:116:PHE:HD1	1.68	0.58
1:Z:211:TYR:CZ	1:Z:215:LYS:HD3	2.38	0.58
1:b:88:PRO:HB2	1:b:116:PHE:HD1	1.68	0.58
1:p:211:TYR:CZ	1:p:215:LYS:HD3	2.38	0.58
1:s:88:PRO:HB2	1:s:116:PHE:HD1	1.68	0.58
1:t:211:TYR:CZ	1:t:215:LYS:HD3	2.38	0.58
1:Y:211:TYR:CZ	1:Y:215:LYS:HD3	2.38	0.58
1:u:88:PRO:HB2	1:u:116:PHE:HD1	1.68	0.58
1:0:88:PRO:HB2	1:0:116:PHE:HD1	1.68	0.58
1:AC:211:TYR:CZ	1:AC:215:LYS:HD3	2.38	0.58
1:AH:211:TYR:CZ	1:AH:215:LYS:HD3	2.38	0.58
1:AM:88:PRO:HB2	1:AM:116:PHE:HD1	1.68	0.58
1:AM:211:TYR:CZ	1:AM:215:LYS:HD3	2.38	0.58
1:H:211:TYR:CZ	1:H:215:LYS:HD3	2.38	0.58
1:P:88:PRO:HB2	1:P:116:PHE:HD1	1.68	0.58
1:S:88:PRO:HB2	1:S:116:PHE:HD1	1.68	0.58
1:V:88:PRO:HB2	1:V:116:PHE:HD1	1.68	0.58
1:h:211:TYR:CZ	1:h:215:LYS:HD3	2.38	0.58
1:y:211:TYR:CZ	1:y:215:LYS:HD3	2.38	0.58
1:AK:88:PRO:HB2	1:AK:116:PHE:HD1	1.68	0.58
1:AO:88:PRO:HB2	1:AO:116:PHE:HD1	1.68	0.58
1:E:88:PRO:HB2	1:E:116:PHE:HD1	1.68	0.58
1:M:211:TYR:CZ	1:M:215:LYS:HD3	2.38	0.58
1:N:88:PRO:HB2	1:N:116:PHE:HD1	1.68	0.58
1:O:328:GLU:HG3	1:O:332:ARG:HH22	1.69	0.58
1:c:211:TYR:CZ	1:c:215:LYS:HD3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:211:TYR:CZ	1:f:215:LYS:HD3	2.38	0.58
1:k:211:TYR:CZ	1:k:215:LYS:HD3	2.38	0.58
1:n:211:TYR:CZ	1:n:215:LYS:HD3	2.38	0.58
1:s:211:TYR:CZ	1:s:215:LYS:HD3	2.38	0.58
1:x:328:GLU:HG3	1:x:332:ARG:HH22	1.69	0.58
1:2:211:TYR:CZ	1:2:215:LYS:HD3	2.38	0.58
1:2:328:GLU:HG3	1:2:332:ARG:HH22	1.69	0.58
1:3:88:PRO:HB2	1:3:116:PHE:HD1	1.68	0.58
1:AA:88:PRO:HB2	1:AA:116:PHE:HD1	1.68	0.58
1:AF:88:PRO:HB2	1:AF:116:PHE:HD1	1.68	0.58
1:c:88:PRO:HB2	1:c:116:PHE:HD1	1.68	0.58
1:z:328:GLU:HG3	1:z:332:ARG:HH22	1.69	0.58
1:5:88:PRO:HB2	1:5:116:PHE:HD1	1.68	0.58
1:6:88:PRO:HB2	1:6:116:PHE:HD1	1.68	0.58
1:AE:211:TYR:CZ	1:AE:215:LYS:HD3	2.38	0.58
1:AJ:210:ALA:HA	1:AJ:213:LEU:HD12	1.86	0.58
1:AP:328:GLU:HG3	1:AP:332:ARG:HH22	1.69	0.58
1:AQ:210:ALA:HA	1:AQ:213:LEU:HD12	1.86	0.58
1:AQ:328:GLU:HG3	1:AQ:332:ARG:HH22	1.69	0.58
1:J:211:TYR:CZ	1:J:215:LYS:HD3	2.38	0.58
1:M:328:GLU:HG3	1:M:332:ARG:HH22	1.69	0.58
1:P:211:TYR:CZ	1:P:215:LYS:HD3	2.38	0.58
1:R:328:GLU:HG3	1:R:332:ARG:HH22	1.69	0.58
1:S:328:GLU:HG3	1:S:332:ARG:HH22	1.69	0.58
1:j:210:ALA:HA	1:j:213:LEU:HD12	1.86	0.58
1:k:88:PRO:HB2	1:k:116:PHE:HD1	1.68	0.58
1:l:211:TYR:CZ	1:l:215:LYS:HD3	2.38	0.58
1:7:210:ALA:HA	1:7:213:LEU:HD12	1.86	0.58
1:7:211:TYR:CZ	1:7:215:LYS:HD3	2.38	0.58
1:8:328:GLU:HG3	1:8:332:ARG:HH22	1.69	0.58
1:9:211:TYR:CZ	1:9:215:LYS:HD3	2.38	0.58
1:AB:210:ALA:HA	1:AB:213:LEU:HD12	1.86	0.58
1:AI:88:PRO:HB2	1:AI:116:PHE:HD1	1.68	0.58
1:AI:328:GLU:HG3	1:AI:332:ARG:HH22	1.69	0.58
1:AL:210:ALA:HA	1:AL:213:LEU:HD12	1.86	0.58
1:AN:210:ALA:HA	1:AN:213:LEU:HD12	1.86	0.58
1:AN:328:GLU:HG3	1:AN:332:ARG:HH22	1.69	0.58
1:F:328:GLU:HG3	1:F:332:ARG:HH22	1.69	0.58
1:G:88:PRO:HB2	1:G:116:PHE:HD1	1.68	0.58
1:N:210:ALA:HA	1:N:213:LEU:HD12	1.86	0.58
1:R:210:ALA:HA	1:R:213:LEU:HD12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:210:ALA:HA	1:h:213:LEU:HD12	1.86	0.58
1:n:210:ALA:HA	1:n:213:LEU:HD12	1.86	0.58
1:v:210:ALA:HA	1:v:213:LEU:HD12	1.86	0.58
1:5:328:GLU:HG3	1:5:332:ARG:HH22	1.69	0.57
1:AB:88:PRO:HB2	1:AB:116:PHE:HD1	1.68	0.57
1:AE:210:ALA:HA	1:AE:213:LEU:HD12	1.86	0.57
1:AO:328:GLU:HG3	1:AO:332:ARG:HH22	1.69	0.57
1:F:210:ALA:HA	1:F:213:LEU:HD12	1.86	0.57
1:P:210:ALA:HA	1:P:213:LEU:HD12	1.86	0.57
1:Q:88:PRO:HB2	1:Q:116:PHE:HD1	1.68	0.57
1:U:210:ALA:HA	1:U:213:LEU:HD12	1.86	0.57
1:Z:210:ALA:HA	1:Z:213:LEU:HD12	1.86	0.57
1:f:210:ALA:HA	1:f:213:LEU:HD12	1.86	0.57
1:j:328:GLU:HG3	1:j:332:ARG:HH22	1.69	0.57
1:n:328:GLU:HG3	1:n:332:ARG:HH22	1.69	0.57
1:r:210:ALA:HA	1:r:213:LEU:HD12	1.86	0.57
1:t:210:ALA:HA	1:t:213:LEU:HD12	1.86	0.57
1:t:328:GLU:HG3	1:t:332:ARG:HH22	1.69	0.57
1:1:210:ALA:HA	1:1:213:LEU:HD12	1.86	0.57
1:AC:210:ALA:HA	1:AC:213:LEU:HD12	1.86	0.57
1:AE:328:GLU:HG3	1:AE:332:ARG:HH22	1.69	0.57
1:AJ:88:PRO:HB2	1:AJ:116:PHE:HD1	1.68	0.57
1:AK:328:GLU:HG3	1:AK:332:ARG:HH22	1.69	0.57
1:AN:227:PHE:HB2	1:AO:213:LEU:HD11	1.85	0.57
1:AP:88:PRO:HB2	1:AP:116:PHE:HD1	1.68	0.57
1:AP:227:PHE:HB2	1:AQ:213:LEU:HD11	1.85	0.57
1:B:210:ALA:HA	1:B:213:LEU:HD12	1.86	0.57
1:G:210:ALA:HA	1:G:213:LEU:HD12	1.86	0.57
1:J:210:ALA:HA	1:J:213:LEU:HD12	1.86	0.57
1:Q:328:GLU:HG3	1:Q:332:ARG:HH22	1.69	0.57
1:T:210:ALA:HA	1:T:213:LEU:HD12	1.86	0.57
1:Y:88:PRO:HB2	1:Y:116:PHE:HD1	1.68	0.57
1:e:328:GLU:HG3	1:e:332:ARG:HH22	1.69	0.57
1:m:328:GLU:HG3	1:m:332:ARG:HH22	1.69	0.57
1:o:88:PRO:HB2	1:o:116:PHE:HD1	1.68	0.57
1:s:328:GLU:HG3	1:s:332:ARG:HH22	1.69	0.57
1:u:210:ALA:HA	1:u:213:LEU:HD12	1.86	0.57
1:v:328:GLU:HG3	1:v:332:ARG:HH22	1.69	0.57
1:2:210:ALA:HA	1:2:213:LEU:HD12	1.86	0.57
1:6:328:GLU:HG3	1:6:332:ARG:HH22	1.69	0.57
1:A:328:GLU:HG3	1:A:332:ARG:HH22	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AC:328:GLU:HG3	1:AC:332:ARG:HH22	1.69	0.57
1:AG:328:GLU:HG3	1:AG:332:ARG:HH22	1.69	0.57
1:AH:328:GLU:HG3	1:AH:332:ARG:HH22	1.69	0.57
1:AL:88:PRO:HB2	1:AL:116:PHE:HD1	1.68	0.57
1:AR:210:ALA:HA	1:AR:213:LEU:HD12	1.86	0.57
1:AR:328:GLU:HG3	1:AR:332:ARG:HH22	1.69	0.57
1:AS:210:ALA:HA	1:AS:213:LEU:HD12	1.86	0.57
1:E:328:GLU:HG3	1:E:332:ARG:HH22	1.69	0.57
1:L:328:GLU:HG3	1:L:332:ARG:HH22	1.69	0.57
1:O:202:HIS:CE1	1:P:237:CYS:HB3	2.40	0.57
1:O:211:TYR:CZ	1:O:215:LYS:HD3	2.38	0.57
1:V:210:ALA:HA	1:V:213:LEU:HD12	1.87	0.57
1:W:88:PRO:HB2	1:W:116:PHE:HD1	1.67	0.57
1:d:210:ALA:HA	1:d:213:LEU:HD12	1.86	0.57
1:k:328:GLU:HG3	1:k:332:ARG:HH22	1.69	0.57
1:p:210:ALA:HA	1:p:213:LEU:HD12	1.86	0.57
1:r:328:GLU:HG3	1:r:332:ARG:HH22	1.69	0.57
1:w:88:PRO:HB2	1:w:116:PHE:HD1	1.68	0.57
1:2:193:LYS:HG3	1:2:197:PHE:CE2	2.40	0.57
1:8:88:PRO:HB2	1:8:116:PHE:HD1	1.68	0.57
1:9:193:LYS:HG3	1:9:197:PHE:CE2	2.40	0.57
1:AC:213:LEU:HD11	1:AD:227:PHE:HB2	1.86	0.57
1:AD:328:GLU:HG3	1:AD:332:ARG:HH22	1.69	0.57
1:AS:88:PRO:HB2	1:AS:116:PHE:HD1	1.68	0.57
1:C:202:HIS:CE1	1:D:237:CYS:HB3	2.39	0.57
1:M:88:PRO:HB2	1:M:116:PHE:HD1	1.68	0.57
1:X:210:ALA:HA	1:X:213:LEU:HD12	1.86	0.57
1:a:88:PRO:HB2	1:a:116:PHE:HD1	1.68	0.57
1:b:210:ALA:HA	1:b:213:LEU:HD12	1.86	0.57
1:h:328:GLU:HG3	1:h:332:ARG:HH22	1.69	0.57
1:p:328:GLU:HG3	1:p:332:ARG:HH22	1.69	0.57
1:s:193:LYS:HG3	1:s:197:PHE:CE2	2.40	0.57
1:w:210:ALA:HA	1:w:213:LEU:HD12	1.86	0.57
1:y:193:LYS:HG3	1:y:197:PHE:CE2	2.40	0.57
1:y:210:ALA:HA	1:y:213:LEU:HD12	1.86	0.57
1:4:328:GLU:HG3	1:4:332:ARG:HH22	1.69	0.57
1:6:209:HIS:CD2	1:7:226:ASP:HB3	2.40	0.57
1:7:328:GLU:HG3	1:7:332:ARG:HH22	1.69	0.57
1:9:210:ALA:HA	1:9:213:LEU:HD12	1.86	0.57
1:A:193:LYS:HG3	1:A:197:PHE:CE2	2.40	0.57
1:AD:193:LYS:HG3	1:AD:197:PHE:CE2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:210:ALA:HA	1:AD:213:LEU:HD12	1.86	0.57
1:AH:210:ALA:HA	1:AH:213:LEU:HD12	1.86	0.57
1:AJ:193:LYS:HG3	1:AJ:197:PHE:CE2	2.40	0.57
1:AO:193:LYS:HG3	1:AO:197:PHE:CE2	2.40	0.57
1:I:193:LYS:HG3	1:I:197:PHE:CE2	2.40	0.57
1:L:210:ALA:HA	1:L:213:LEU:HD12	1.86	0.57
1:N:193:LYS:HG3	1:N:197:PHE:CE2	2.40	0.57
1:S:210:ALA:HA	1:S:213:LEU:HD12	1.86	0.57
1:Z:227:PHE:HB2	1:a:213:LEU:HD11	1.85	0.57
1:l:328:GLU:HG3	1:l:332:ARG:HH22	1.69	0.57
1:n:193:LYS:HG3	1:n:197:PHE:CE2	2.40	0.57
1:v:193:LYS:HG3	1:v:197:PHE:CE2	2.40	0.57
1:z:88:PRO:HB2	1:z:116:PHE:HD1	1.68	0.57
1:4:210:ALA:HA	1:4:213:LEU:HD12	1.86	0.57
1:AF:193:LYS:HG3	1:AF:197:PHE:CE2	2.40	0.57
1:AF:210:ALA:HA	1:AF:213:LEU:HD12	1.86	0.57
1:AG:210:ALA:HA	1:AG:213:LEU:HD12	1.86	0.57
1:AH:193:LYS:HG3	1:AH:197:PHE:CE2	2.40	0.57
1:AM:193:LYS:HG3	1:AM:197:PHE:CE2	2.40	0.57
1:AR:193:LYS:HG3	1:AR:197:PHE:CE2	2.40	0.57
1:AS:328:GLU:HG3	1:AS:332:ARG:HH22	1.69	0.57
1:C:193:LYS:HG3	1:C:197:PHE:CE2	2.40	0.57
1:C:210:ALA:HA	1:C:213:LEU:HD12	1.86	0.57
1:C:328:GLU:HG3	1:C:332:ARG:HH22	1.69	0.57
1:D:328:GLU:HG3	1:D:332:ARG:HH22	1.69	0.57
1:K:210:ALA:HA	1:K:213:LEU:HD12	1.86	0.57
1:O:88:PRO:HB2	1:O:116:PHE:HD1	1.68	0.57
1:P:328:GLU:HG3	1:P:332:ARG:HH22	1.69	0.57
1:a:328:GLU:HG3	1:a:332:ARG:HH22	1.69	0.57
1:e:210:ALA:HA	1:e:213:LEU:HD12	1.86	0.57
1:l:210:ALA:HA	1:l:213:LEU:HD12	1.86	0.57
1:q:328:GLU:HG3	1:q:332:ARG:HH22	1.69	0.57
1:1:193:LYS:HG3	1:1:197:PHE:CE2	2.40	0.57
1:5:235:GLY:HA3	1:5:246:PHE:HD2	1.70	0.57
1:9:328:GLU:HG3	1:9:332:ARG:HH22	1.69	0.57
1:AI:193:LYS:HG3	1:AI:197:PHE:CE2	2.40	0.57
1:AK:193:LYS:HG3	1:AK:197:PHE:CE2	2.40	0.57
1:AL:193:LYS:HG3	1:AL:197:PHE:CE2	2.40	0.57
1:AL:235:GLY:HA3	1:AL:246:PHE:HD2	1.70	0.57
1:D:210:ALA:HA	1:D:213:LEU:HD12	1.86	0.57
1:E:193:LYS:HG3	1:E:197:PHE:CE2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:88:PRO:HB2	1:H:116:PHE:HD1	1.68	0.57
1:I:328:GLU:HG3	1:I:332:ARG:HH22	1.69	0.57
1:K:193:LYS:HG3	1:K:197:PHE:CE2	2.40	0.57
1:K:328:GLU:HG3	1:K:332:ARG:HH22	1.69	0.57
1:f:328:GLU:HG3	1:f:332:ARG:HH22	1.69	0.57
1:h:288:THR:O	1:h:291:GLU:HG3	2.05	0.57
1:k:193:LYS:HG3	1:k:197:PHE:CE2	2.40	0.57
1:q:193:LYS:HG3	1:q:197:PHE:CE2	2.40	0.57
1:t:209:HIS:CD2	1:u:226:ASP:HB3	2.40	0.57
1:t:235:GLY:HA3	1:t:246:PHE:HD2	1.70	0.57
1:2:307:LYS:HB3	1:AO:311:ILE:CD1	2.35	0.57
1:3:210:ALA:HA	1:3:213:LEU:HD12	1.86	0.57
1:6:193:LYS:HG3	1:6:197:PHE:CE2	2.40	0.57
1:6:195:TYR:OH	1:7:238:GLU:HA	2.05	0.57
1:A:210:ALA:HA	1:A:213:LEU:HD12	1.86	0.57
1:AA:235:GLY:HA3	1:AA:246:PHE:HD2	1.70	0.57
1:AA:328:GLU:HG3	1:AA:332:ARG:HH22	1.69	0.57
1:AB:235:GLY:HA3	1:AB:246:PHE:HD2	1.70	0.57
1:AB:288:THR:O	1:AB:291:GLU:HG3	2.05	0.57
1:AH:235:GLY:HA3	1:AH:246:PHE:HD2	1.70	0.57
1:AJ:235:GLY:HA3	1:AJ:246:PHE:HD2	1.70	0.57
1:AJ:288:THR:O	1:AJ:291:GLU:HG3	2.05	0.57
1:AL:288:THR:O	1:AL:291:GLU:HG3	2.05	0.57
1:AQ:235:GLY:HA3	1:AQ:246:PHE:HD2	1.70	0.57
1:B:328:GLU:HG3	1:B:332:ARG:HH22	1.69	0.57
1:I:210:ALA:HA	1:I:213:LEU:HD12	1.86	0.57
1:I:235:GLY:HA3	1:I:246:PHE:HD2	1.70	0.57
1:M:195:TYR:OH	1:N:238:GLU:HA	2.05	0.57
1:S:193:LYS:HG3	1:S:197:PHE:CE2	2.40	0.57
1:U:328:GLU:HG3	1:U:332:ARG:HH22	1.69	0.57
1:V:209:HIS:CD2	1:W:226:ASP:HB3	2.40	0.57
1:V:235:GLY:HA3	1:V:246:PHE:HD2	1.70	0.57
1:X:235:GLY:HA3	1:X:246:PHE:HD2	1.70	0.57
1:Z:288:THR:O	1:Z:291:GLU:HG3	2.05	0.57
1:c:328:GLU:HG3	1:c:332:ARG:HH22	1.69	0.57
1:d:235:GLY:HA3	1:d:246:PHE:HD2	1.70	0.57
1:f:288:THR:O	1:f:291:GLU:HG3	2.05	0.57
1:i:88:PRO:HB2	1:i:116:PHE:HD1	1.68	0.57
1:s:235:GLY:HA3	1:s:246:PHE:HD2	1.70	0.57
1:t:193:LYS:HG3	1:t:197:PHE:CE2	2.40	0.57
1:t:195:TYR:OH	1:u:238:GLU:HA	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:368:GLY:HA3	1:u:400:TYR:HB3	1.87	0.57
1:x:88:PRO:HB2	1:x:116:PHE:HD1	1.68	0.57
1:z:210:ALA:HA	1:z:213:LEU:HD12	1.86	0.57
1:0:82:TYR:HB3	1:0:85:ILE:HD12	1.87	0.57
1:3:328:GLU:HG3	1:3:332:ARG:HH22	1.69	0.57
1:6:210:ALA:HA	1:6:213:LEU:HD12	1.86	0.57
1:8:210:ALA:HA	1:8:213:LEU:HD12	1.86	0.57
1:AC:235:GLY:HA3	1:AC:246:PHE:HD2	1.70	0.57
1:AD:288:THR:O	1:AD:291:GLU:HG3	2.05	0.57
1:AE:235:GLY:HA3	1:AE:246:PHE:HD2	1.70	0.57
1:AF:235:GLY:HA3	1:AF:246:PHE:HD2	1.70	0.57
1:AG:193:LYS:HG3	1:AG:197:PHE:CE2	2.40	0.57
1:AN:288:THR:O	1:AN:291:GLU:HG3	2.05	0.57
1:AO:235:GLY:HA3	1:AO:246:PHE:HD2	1.70	0.57
1:C:235:GLY:HA3	1:C:246:PHE:HD2	1.70	0.57
1:H:328:GLU:HG3	1:H:332:ARG:HH22	1.69	0.57
1:K:235:GLY:HA3	1:K:246:PHE:HD2	1.70	0.57
1:Q:210:ALA:HA	1:Q:213:LEU:HD12	1.86	0.57
1:U:235:GLY:HA3	1:U:246:PHE:HD2	1.70	0.57
1:U:288:THR:O	1:U:291:GLU:HG3	2.05	0.57
1:V:195:TYR:OH	1:W:238:GLU:HA	2.05	0.57
1:b:328:GLU:HG3	1:b:332:ARG:HH22	1.69	0.57
1:d:193:LYS:HG3	1:d:197:PHE:CE2	2.40	0.57
1:g:88:PRO:HB2	1:g:116:PHE:HD1	1.68	0.57
1:i:82:TYR:HB3	1:i:85:ILE:HD12	1.87	0.57
1:k:82:TYR:HB3	1:k:85:ILE:HD12	1.87	0.57
1:m:210:ALA:HA	1:m:213:LEU:HD12	1.86	0.57
1:q:210:ALA:HA	1:q:213:LEU:HD12	1.86	0.57
1:s:210:ALA:HA	1:s:213:LEU:HD12	1.86	0.57
1:u:193:LYS:HG3	1:u:197:PHE:CE2	2.40	0.57
1:x:82:TYR:HB3	1:x:85:ILE:HD12	1.87	0.57
1:0:235:GLY:HA3	1:0:246:PHE:HD2	1.70	0.57
1:3:235:GLY:HA3	1:3:246:PHE:HD2	1.70	0.57
1:4:193:LYS:HG3	1:4:197:PHE:CE2	2.40	0.57
1:4:235:GLY:HA3	1:4:246:PHE:HD2	1.70	0.57
1:A:288:THR:O	1:A:291:GLU:HG3	2.05	0.57
1:AA:82:TYR:HB3	1:AA:85:ILE:HD12	1.87	0.57
1:AA:193:LYS:HG3	1:AA:197:PHE:CE2	2.40	0.57
1:AD:235:GLY:HA3	1:AD:246:PHE:HD2	1.70	0.57
1:AG:235:GLY:HA3	1:AG:246:PHE:HD2	1.70	0.57
1:AK:82:TYR:HB3	1:AK:85:ILE:HD12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:235:GLY:HA3	1:AK:246:PHE:HD2	1.70	0.57
1:AM:82:TYR:HB3	1:AM:85:ILE:HD12	1.87	0.57
1:AS:193:LYS:HG3	1:AS:197:PHE:CE2	2.40	0.57
1:B:193:LYS:HG3	1:B:197:PHE:CE2	2.40	0.57
1:E:82:TYR:HB3	1:E:85:ILE:HD12	1.87	0.57
1:H:210:ALA:HA	1:H:213:LEU:HD12	1.86	0.57
1:M:193:LYS:HG3	1:M:197:PHE:CE2	2.40	0.57
1:N:288:THR:O	1:N:291:GLU:HG3	2.05	0.57
1:P:288:THR:O	1:P:291:GLU:HG3	2.05	0.57
1:R:235:GLY:HA3	1:R:246:PHE:HD2	1.70	0.57
1:W:210:ALA:HA	1:W:213:LEU:HD12	1.86	0.57
1:W:328:GLU:HG3	1:W:332:ARG:HH22	1.69	0.57
1:X:328:GLU:HG3	1:X:332:ARG:HH22	1.69	0.57
1:Z:58:GLN:O	1:g:244:LYS:HE2	2.04	0.57
1:a:193:LYS:HG3	1:a:197:PHE:CE2	2.40	0.57
1:c:193:LYS:HG3	1:c:197:PHE:CE2	2.40	0.57
1:e:288:THR:O	1:e:291:GLU:HG3	2.05	0.57
1:g:193:LYS:HG3	1:g:197:PHE:CE2	2.40	0.57
1:j:288:THR:O	1:j:291:GLU:HG3	2.05	0.57
1:n:288:THR:O	1:n:291:GLU:HG3	2.05	0.57
1:r:235:GLY:HA3	1:r:246:PHE:HD2	1.70	0.57
1:v:235:GLY:HA3	1:v:246:PHE:HD2	1.70	0.57
1:0:193:LYS:HG3	1:0:197:PHE:CE2	2.40	0.56
1:4:288:THR:O	1:4:291:GLU:HG3	2.05	0.56
1:A:209:HIS:CD2	1:B:226:ASP:HB3	2.40	0.56
1:AE:193:LYS:HG3	1:AE:197:PHE:CE2	2.40	0.56
1:AH:288:THR:O	1:AH:291:GLU:HG3	2.05	0.56
1:AO:82:TYR:HB3	1:AO:85:ILE:HD12	1.87	0.56
1:AO:210:ALA:HA	1:AO:213:LEU:HD12	1.86	0.56
1:AP:82:TYR:HB3	1:AP:85:ILE:HD12	1.87	0.56
1:AQ:193:LYS:HG3	1:AQ:197:PHE:CE2	2.40	0.56
1:C:288:THR:O	1:C:291:GLU:HG3	2.05	0.56
1:G:193:LYS:HG3	1:G:197:PHE:CE2	2.40	0.56
1:G:235:GLY:HA3	1:G:246:PHE:HD2	1.70	0.56
1:M:210:ALA:HA	1:M:213:LEU:HD12	1.86	0.56
1:M:235:GLY:HA3	1:M:246:PHE:HD2	1.70	0.56
1:N:235:GLY:HA3	1:N:246:PHE:HD2	1.70	0.56
1:N:328:GLU:HG3	1:N:332:ARG:HH22	1.69	0.56
1:O:82:TYR:HB3	1:O:85:ILE:HD12	1.87	0.56
1:O:235:GLY:HA3	1:O:246:PHE:HD2	1.70	0.56
1:P:235:GLY:HA3	1:P:246:PHE:HD2	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:235:GLY:HA3	1:T:246:PHE:HD2	1.70	0.56
1:Z:193:LYS:HG3	1:Z:197:PHE:CE2	2.40	0.56
1:Z:328:GLU:HG3	1:Z:332:ARG:HH22	1.69	0.56
1:a:210:ALA:HA	1:a:213:LEU:HD12	1.86	0.56
1:b:235:GLY:HA3	1:b:246:PHE:HD2	1.70	0.56
1:d:328:GLU:HG3	1:d:332:ARG:HH22	1.69	0.56
1:g:82:TYR:HB3	1:g:85:ILE:HD12	1.87	0.56
1:j:193:LYS:HG3	1:j:197:PHE:CE2	2.40	0.56
1:j:235:GLY:HA3	1:j:246:PHE:HD2	1.70	0.56
1:k:235:GLY:HA3	1:k:246:PHE:HD2	1.70	0.56
1:o:82:TYR:HB3	1:o:85:ILE:HD12	1.87	0.56
1:o:210:ALA:HA	1:o:213:LEU:HD12	1.86	0.56
1:q:235:GLY:HA3	1:q:246:PHE:HD2	1.70	0.56
1:u:235:GLY:HA3	1:u:246:PHE:HD2	1.70	0.56
1:u:288:THR:O	1:u:291:GLU:HG3	2.05	0.56
1:w:328:GLU:HG3	1:w:332:ARG:HH22	1.69	0.56
1:2:288:THR:O	1:2:291:GLU:HG3	2.05	0.56
1:3:82:TYR:HB3	1:3:85:ILE:HD12	1.87	0.56
1:3:193:LYS:HG3	1:3:197:PHE:CE2	2.40	0.56
1:5:193:LYS:HG3	1:5:197:PHE:CE2	2.40	0.56
1:6:235:GLY:HA3	1:6:246:PHE:HD2	1.70	0.56
1:7:193:LYS:HG3	1:7:197:PHE:CE2	2.40	0.56
1:8:82:TYR:HB3	1:8:85:ILE:HD12	1.87	0.56
1:8:235:GLY:HA3	1:8:246:PHE:HD2	1.70	0.56
1:A:235:GLY:HA3	1:A:246:PHE:HD2	1.70	0.56
1:AI:235:GLY:HA3	1:AI:246:PHE:HD2	1.70	0.56
1:AM:235:GLY:HA3	1:AM:246:PHE:HD2	1.70	0.56
1:B:288:THR:O	1:B:291:GLU:HG3	2.05	0.56
1:H:235:GLY:HA3	1:H:246:PHE:HD2	1.70	0.56
1:J:328:GLU:HG3	1:J:332:ARG:HH22	1.69	0.56
1:O:210:ALA:HA	1:O:213:LEU:HD12	1.86	0.56
1:Q:193:LYS:HG3	1:Q:197:PHE:CE2	2.40	0.56
1:S:213:LEU:HD11	1:T:227:PHE:HB2	1.86	0.56
1:T:193:LYS:HG3	1:T:197:PHE:CE2	2.40	0.56
1:T:288:THR:O	1:T:291:GLU:HG3	2.05	0.56
1:W:235:GLY:HA3	1:W:246:PHE:HD2	1.70	0.56
1:Y:193:LYS:HG3	1:Y:197:PHE:CE2	2.40	0.56
1:c:82:TYR:HB3	1:c:85:ILE:HD12	1.87	0.56
1:c:210:ALA:HA	1:c:213:LEU:HD12	1.86	0.56
1:d:213:LEU:HD11	1:e:227:PHE:HB2	1.86	0.56
1:d:288:THR:O	1:d:291:GLU:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:400:TYR:HB3	1:g:368:GLY:HA3	1.87	0.56
1:g:328:GLU:HG3	1:g:332:ARG:HH22	1.69	0.56
1:h:193:LYS:HG3	1:h:197:PHE:CE2	2.40	0.56
1:j:194:HIS:HA	1:j:197:PHE:CD2	2.41	0.56
1:l:235:GLY:HA3	1:l:246:PHE:HD2	1.70	0.56
1:m:193:LYS:HG3	1:m:197:PHE:CE2	2.40	0.56
1:m:288:THR:O	1:m:291:GLU:HG3	2.05	0.56
1:z:193:LYS:HG3	1:z:197:PHE:CE2	2.40	0.56
1:0:328:GLU:HG3	1:0:332:ARG:HH22	1.69	0.56
1:1:194:HIS:HA	1:1:197:PHE:CD2	2.41	0.56
1:5:82:TYR:HB3	1:5:85:ILE:HD12	1.87	0.56
1:6:288:THR:O	1:6:291:GLU:HG3	2.05	0.56
1:8:193:LYS:HG3	1:8:197:PHE:CE2	2.40	0.56
1:8:288:THR:O	1:8:291:GLU:HG3	2.05	0.56
1:AB:194:HIS:HA	1:AB:197:PHE:CD2	2.41	0.56
1:AB:328:GLU:HG3	1:AB:332:ARG:HH22	1.69	0.56
1:AF:82:TYR:HB3	1:AF:85:ILE:HD12	1.87	0.56
1:AF:328:GLU:HG3	1:AF:332:ARG:HH22	1.69	0.56
1:AH:194:HIS:HA	1:AH:197:PHE:CD2	2.41	0.56
1:AI:82:TYR:HB3	1:AI:85:ILE:HD12	1.87	0.56
1:AM:328:GLU:HG3	1:AM:332:ARG:HH22	1.69	0.56
1:AN:193:LYS:HG3	1:AN:197:PHE:CE2	2.40	0.56
1:AN:194:HIS:HA	1:AN:197:PHE:CD2	2.41	0.56
1:AP:210:ALA:HA	1:AP:213:LEU:HD12	1.86	0.56
1:AQ:194:HIS:HA	1:AQ:197:PHE:CD2	2.41	0.56
1:AR:194:HIS:HA	1:AR:197:PHE:CD2	2.41	0.56
1:AR:235:GLY:HA3	1:AR:246:PHE:HD2	1.70	0.56
1:AR:288:THR:O	1:AR:291:GLU:HG3	2.05	0.56
1:AS:82:TYR:HB3	1:AS:85:ILE:HD12	1.87	0.56
1:AS:194:HIS:HA	1:AS:197:PHE:CD2	2.41	0.56
1:D:82:TYR:HB3	1:D:85:ILE:HD12	1.87	0.56
1:D:193:LYS:HG3	1:D:197:PHE:CE2	2.40	0.56
1:E:210:ALA:HA	1:E:213:LEU:HD12	1.86	0.56
1:E:235:GLY:HA3	1:E:246:PHE:HD2	1.70	0.56
1:F:235:GLY:HA3	1:F:246:PHE:HD2	1.70	0.56
1:G:194:HIS:HA	1:G:197:PHE:CD2	2.41	0.56
1:H:82:TYR:HB3	1:H:85:ILE:HD12	1.87	0.56
1:H:193:LYS:HG3	1:H:197:PHE:CE2	2.40	0.56
1:J:193:LYS:HG3	1:J:197:PHE:CE2	2.40	0.56
1:M:82:TYR:HB3	1:M:85:ILE:HD12	1.87	0.56
1:O:193:LYS:HG3	1:O:197:PHE:CE2	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:372:HIS:HB2	1:P:400:TYR:HE2	1.71	0.56
1:P:193:LYS:HG3	1:P:197:PHE:CE2	2.40	0.56
1:P:194:HIS:HA	1:P:197:PHE:CD2	2.41	0.56
1:Q:82:TYR:HB3	1:Q:85:ILE:HD12	1.87	0.56
1:R:194:HIS:HA	1:R:197:PHE:CD2	2.41	0.56
1:T:194:HIS:HA	1:T:197:PHE:CD2	2.41	0.56
1:U:193:LYS:HG3	1:U:197:PHE:CE2	2.40	0.56
1:V:193:LYS:HG3	1:V:197:PHE:CE2	2.40	0.56
1:Y:82:TYR:HB3	1:Y:85:ILE:HD12	1.87	0.56
1:Y:328:GLU:HG3	1:Y:332:ARG:HH22	1.69	0.56
1:Z:194:HIS:HA	1:Z:197:PHE:CD2	2.41	0.56
1:Z:235:GLY:HA3	1:Z:246:PHE:HD2	1.70	0.56
1:a:82:TYR:HB3	1:a:85:ILE:HD12	1.87	0.56
1:b:193:LYS:HG3	1:b:197:PHE:CE2	2.40	0.56
1:b:288:THR:O	1:b:291:GLU:HG3	2.05	0.56
1:e:235:GLY:HA3	1:e:246:PHE:HD2	1.70	0.56
1:f:194:HIS:HA	1:f:197:PHE:CD2	2.41	0.56
1:f:235:GLY:HA3	1:f:246:PHE:HD2	1.70	0.56
1:h:235:GLY:HA3	1:h:246:PHE:HD2	1.70	0.56
1:i:193:LYS:HG3	1:i:197:PHE:CE2	2.40	0.56
1:i:210:ALA:HA	1:i:213:LEU:HD12	1.86	0.56
1:l:193:LYS:HG3	1:l:197:PHE:CE2	2.40	0.56
1:m:235:GLY:HA3	1:m:246:PHE:HD2	1.70	0.56
1:o:193:LYS:HG3	1:o:197:PHE:CE2	2.40	0.56
1:o:328:GLU:HG3	1:o:332:ARG:HH22	1.69	0.56
1:r:193:LYS:HG3	1:r:197:PHE:CE2	2.40	0.56
1:s:82:TYR:HB3	1:s:85:ILE:HD12	1.87	0.56
1:t:194:HIS:HA	1:t:197:PHE:CD2	2.41	0.56
1:u:328:GLU:HG3	1:u:332:ARG:HH22	1.69	0.56
1:v:194:HIS:HA	1:v:197:PHE:CD2	2.41	0.56
1:x:193:LYS:HG3	1:x:197:PHE:CE2	2.40	0.56
1:x:210:ALA:HA	1:x:213:LEU:HD12	1.86	0.56
1:x:235:GLY:HA3	1:x:246:PHE:HD2	1.70	0.56
1:y:288:THR:O	1:y:291:GLU:HG3	2.05	0.56
1:y:328:GLU:HG3	1:y:332:ARG:HH22	1.69	0.56
1:z:82:TYR:HB3	1:z:85:ILE:HD12	1.87	0.56
1:1:288:THR:O	1:1:291:GLU:HG3	2.05	0.56
1:3:194:HIS:HA	1:3:197:PHE:CD2	2.41	0.56
1:5:210:ALA:HA	1:5:213:LEU:HD12	1.86	0.56
1:6:82:TYR:HB3	1:6:85:ILE:HD12	1.87	0.56
1:7:288:THR:O	1:7:291:GLU:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:195:TYR:OH	1:B:238:GLU:HA	2.05	0.56
1:AD:194:HIS:HA	1:AD:197:PHE:CD2	2.41	0.56
1:AE:194:HIS:HA	1:AE:197:PHE:CD2	2.41	0.56
1:AF:288:THR:O	1:AF:291:GLU:HG3	2.05	0.56
1:AS:235:GLY:HA3	1:AS:246:PHE:HD2	1.70	0.56
1:D:288:THR:O	1:D:291:GLU:HG3	2.05	0.56
1:F:193:LYS:HG3	1:F:197:PHE:CE2	2.40	0.56
1:F:194:HIS:HA	1:F:197:PHE:CD2	2.41	0.56
1:J:235:GLY:HA3	1:J:246:PHE:HD2	1.70	0.56
1:J:288:THR:O	1:J:291:GLU:HG3	2.05	0.56
1:R:193:LYS:HG3	1:R:197:PHE:CE2	2.40	0.56
1:S:82:TYR:HB3	1:S:85:ILE:HD12	1.87	0.56
1:U:194:HIS:HA	1:U:197:PHE:CD2	2.41	0.56
1:c:235:GLY:HA3	1:c:246:PHE:HD2	1.70	0.56
1:j:202:HIS:CE1	1:k:237:CYS:HB3	2.40	0.56
1:k:210:ALA:HA	1:k:213:LEU:HD12	1.86	0.56
1:o:235:GLY:HA3	1:o:246:PHE:HD2	1.70	0.56
1:w:82:TYR:HB3	1:w:85:ILE:HD12	1.87	0.56
1:w:235:GLY:HA3	1:w:246:PHE:HD2	1.70	0.56
1:y:194:HIS:HA	1:y:197:PHE:CD2	2.41	0.56
1:1:235:GLY:HA3	1:1:246:PHE:HD2	1.70	0.56
1:2:194:HIS:HA	1:2:197:PHE:CD2	2.41	0.56
1:2:235:GLY:HA3	1:2:246:PHE:HD2	1.70	0.56
1:2:320:ARG:NH2	1:AO:183:GLU:H	2.03	0.56
1:6:194:HIS:HA	1:6:197:PHE:CD2	2.41	0.56
1:AB:193:LYS:HG3	1:AB:197:PHE:CE2	2.40	0.56
1:AC:193:LYS:HG3	1:AC:197:PHE:CE2	2.40	0.56
1:AH:82:TYR:HB3	1:AH:85:ILE:HD12	1.87	0.56
1:AJ:194:HIS:HA	1:AJ:197:PHE:CD2	2.41	0.56
1:AJ:328:GLU:HG3	1:AJ:332:ARG:HH22	1.69	0.56
1:AM:210:ALA:HA	1:AM:213:LEU:HD12	1.86	0.56
1:AM:288:THR:O	1:AM:291:GLU:HG3	2.05	0.56
1:B:194:HIS:HA	1:B:197:PHE:CD2	2.41	0.56
1:C:194:HIS:HA	1:C:197:PHE:CD2	2.41	0.56
1:G:328:GLU:HG3	1:G:332:ARG:HH22	1.69	0.56
1:I:82:TYR:HB3	1:I:85:ILE:HD12	1.87	0.56
1:M:209:HIS:CD2	1:N:226:ASP:HB3	2.40	0.56
1:N:194:HIS:HA	1:N:197:PHE:CD2	2.41	0.56
1:V:194:HIS:HA	1:V:197:PHE:CD2	2.41	0.56
1:W:82:TYR:HB3	1:W:85:ILE:HD12	1.87	0.56
1:Y:210:ALA:HA	1:Y:213:LEU:HD12	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:210:ALA:HA	1:g:213:LEU:HD12	1.86	0.56
1:h:194:HIS:HA	1:h:197:PHE:CD2	2.41	0.56
1:i:328:GLU:HG3	1:i:332:ARG:HH22	1.69	0.56
1:p:235:GLY:HA3	1:p:246:PHE:HD2	1.70	0.56
1:q:82:TYR:HB3	1:q:85:ILE:HD12	1.87	0.56
1:v:288:THR:O	1:v:291:GLU:HG3	2.05	0.56
1:w:193:LYS:HG3	1:w:197:PHE:CE2	2.40	0.56
1:x:288:THR:O	1:x:291:GLU:HG3	2.05	0.56
1:2:213:LEU:HD11	1:3:227:PHE:HB2	1.86	0.56
1:8:194:HIS:HA	1:8:197:PHE:CD2	2.41	0.56
1:9:194:HIS:HA	1:9:197:PHE:CD2	2.41	0.56
1:A:194:HIS:HA	1:A:197:PHE:CD2	2.41	0.56
1:AC:288:THR:O	1:AC:291:GLU:HG3	2.05	0.56
1:AD:82:TYR:HB3	1:AD:85:ILE:HD12	1.87	0.56
1:AE:288:THR:O	1:AE:291:GLU:HG3	2.05	0.56
1:AL:194:HIS:HA	1:AL:197:PHE:CD2	2.41	0.56
1:AQ:288:THR:O	1:AQ:291:GLU:HG3	2.05	0.56
1:L:193:LYS:HG3	1:L:197:PHE:CE2	2.40	0.56
1:L:194:HIS:HA	1:L:197:PHE:CD2	2.41	0.56
1:L:235:GLY:HA3	1:L:246:PHE:HD2	1.70	0.56
1:S:235:GLY:HA3	1:S:246:PHE:HD2	1.70	0.56
1:S:288:THR:O	1:S:291:GLU:HG3	2.05	0.56
1:X:193:LYS:HG3	1:X:197:PHE:CE2	2.40	0.56
1:X:288:THR:O	1:X:291:GLU:HG3	2.05	0.56
1:Y:235:GLY:HA3	1:Y:246:PHE:HD2	1.70	0.56
1:b:194:HIS:HA	1:b:197:PHE:CD2	2.41	0.56
1:l:82:TYR:HB3	1:l:85:ILE:HD12	1.87	0.56
1:l:288:THR:O	1:l:291:GLU:HG3	2.05	0.56
1:q:288:THR:O	1:q:291:GLU:HG3	2.05	0.56
1:s:288:THR:O	1:s:291:GLU:HG3	2.05	0.56
1:z:288:THR:O	1:z:291:GLU:HG3	2.05	0.56
1:4:194:HIS:HA	1:4:197:PHE:CD2	2.41	0.56
1:9:288:THR:O	1:9:291:GLU:HG3	2.05	0.56
1:AG:288:THR:O	1:AG:291:GLU:HG3	2.05	0.56
1:AI:210:ALA:HA	1:AI:213:LEU:HD12	1.86	0.56
1:AK:210:ALA:HA	1:AK:213:LEU:HD12	1.86	0.56
1:AP:193:LYS:HG3	1:AP:197:PHE:CE2	2.40	0.56
1:AS:288:THR:O	1:AS:291:GLU:HG3	2.05	0.56
1:Q:235:GLY:HA3	1:Q:246:PHE:HD2	1.70	0.56
1:V:328:GLU:HG3	1:V:332:ARG:HH22	1.69	0.56
1:W:194:HIS:HA	1:W:197:PHE:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:194:HIS:HA	1:d:197:PHE:CD2	2.41	0.56
1:i:235:GLY:HA3	1:i:246:PHE:HD2	1.70	0.56
1:o:194:HIS:HA	1:o:197:PHE:CD2	2.41	0.56
1:p:288:THR:O	1:p:291:GLU:HG3	2.05	0.56
1:v:202:HIS:CE1	1:w:237:CYS:HB3	2.39	0.56
1:w:288:THR:O	1:w:291:GLU:HG3	2.05	0.56
1:0:210:ALA:HA	1:0:213:LEU:HD12	1.86	0.56
1:1:328:GLU:HG3	1:1:332:ARG:HH22	1.69	0.56
1:4:82:TYR:HB3	1:4:85:ILE:HD12	1.87	0.56
1:5:194:HIS:HA	1:5:197:PHE:CD2	2.41	0.56
1:AA:210:ALA:HA	1:AA:213:LEU:HD12	1.87	0.56
1:AC:194:HIS:HA	1:AC:197:PHE:CD2	2.41	0.56
1:AG:235:GLY:HA3	1:AG:246:PHE:CD2	2.41	0.56
1:AL:328:GLU:HG3	1:AL:332:ARG:HH22	1.69	0.56
1:AN:235:GLY:HA3	1:AN:246:PHE:HD2	1.70	0.56
1:AQ:182:VAL:HG23	1:p:318:LEU:O	2.05	0.56
1:F:235:GLY:HA3	1:F:246:PHE:CD2	2.41	0.56
1:K:82:TYR:HB3	1:K:85:ILE:HD12	1.87	0.56
1:O:288:THR:O	1:O:291:GLU:HG3	2.05	0.56
1:V:288:THR:O	1:V:291:GLU:HG3	2.05	0.56
1:W:235:GLY:HA3	1:W:246:PHE:CD2	2.41	0.56
1:X:194:HIS:HA	1:X:197:PHE:CD2	2.41	0.56
1:Y:194:HIS:HA	1:Y:197:PHE:CD2	2.41	0.56
1:Z:47:ARG:HH12	1:g:254:GLU:HB3	1.69	0.56
1:a:288:THR:O	1:a:291:GLU:HG3	2.05	0.56
1:j:235:GLY:HA3	1:j:246:PHE:CD2	2.41	0.56
1:n:235:GLY:HA3	1:n:246:PHE:HD2	1.70	0.56
1:p:82:TYR:HB3	1:p:85:ILE:HD12	1.87	0.56
1:p:193:LYS:HG3	1:p:197:PHE:CE2	2.40	0.56
1:t:288:THR:O	1:t:291:GLU:HG3	2.05	0.56
1:z:194:HIS:HA	1:z:197:PHE:CD2	2.41	0.56
1:5:235:GLY:HA3	1:5:246:PHE:CD2	2.41	0.56
1:7:194:HIS:HA	1:7:197:PHE:CD2	2.41	0.56
1:A:235:GLY:HA3	1:A:246:PHE:CD2	2.41	0.56
1:AA:235:GLY:HA3	1:AA:246:PHE:CD2	2.41	0.56
1:AO:288:THR:O	1:AO:291:GLU:HG3	2.05	0.56
1:AR:82:TYR:HB3	1:AR:85:ILE:HD12	1.87	0.56
1:B:235:GLY:HA3	1:B:246:PHE:CD2	2.41	0.56
1:C:235:GLY:HA3	1:C:246:PHE:CD2	2.41	0.56
1:D:235:GLY:HA3	1:D:246:PHE:HD2	1.70	0.56
1:I:235:GLY:HA3	1:I:246:PHE:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:194:HIS:HA	1:J:197:PHE:CD2	2.41	0.56
1:L:235:GLY:HA3	1:L:246:PHE:CD2	2.41	0.56
1:M:194:HIS:HA	1:M:197:PHE:CD2	2.41	0.56
1:M:288:THR:O	1:M:291:GLU:HG3	2.05	0.56
1:P:235:GLY:HA3	1:P:246:PHE:CD2	2.41	0.56
1:V:368:GLY:HA3	1:W:400:TYR:HB3	1.87	0.56
1:W:193:LYS:HG3	1:W:197:PHE:CE2	2.40	0.56
1:X:235:GLY:HA3	1:X:246:PHE:CD2	2.41	0.56
1:a:235:GLY:HA3	1:a:246:PHE:CD2	2.41	0.56
1:b:235:GLY:HA3	1:b:246:PHE:CD2	2.41	0.56
1:c:194:HIS:HA	1:c:197:PHE:CD2	2.41	0.56
1:e:193:LYS:HG3	1:e:197:PHE:CE2	2.40	0.56
1:e:235:GLY:HA3	1:e:246:PHE:CD2	2.41	0.56
1:f:235:GLY:HA3	1:f:246:PHE:CD2	2.41	0.56
1:g:288:THR:O	1:g:291:GLU:HG3	2.05	0.56
1:h:235:GLY:HA3	1:h:246:PHE:CD2	2.41	0.56
1:j:372:HIS:HB2	1:k:400:TYR:HE2	1.71	0.56
1:n:194:HIS:HA	1:n:197:PHE:CD2	2.41	0.56
1:r:235:GLY:HA3	1:r:246:PHE:CD2	2.41	0.56
1:t:82:TYR:HB3	1:t:85:ILE:HD12	1.87	0.56
1:u:82:TYR:HB3	1:u:85:ILE:HD12	1.87	0.56
1:w:194:HIS:HA	1:w:197:PHE:CD2	2.41	0.56
1:x:194:HIS:HA	1:x:197:PHE:CD2	2.41	0.56
1:0:235:GLY:HA3	1:0:246:PHE:CD2	2.41	0.56
1:0:288:THR:O	1:0:291:GLU:HG3	2.05	0.56
1:6:235:GLY:HA3	1:6:246:PHE:CD2	2.41	0.56
1:7:235:GLY:HA3	1:7:246:PHE:HD2	1.70	0.56
1:8:283:GLN:HA	1:8:286:LYS:HE2	1.88	0.56
1:9:82:TYR:HB3	1:9:85:ILE:HD12	1.87	0.56
1:AA:283:GLN:HA	1:AA:286:LYS:HE2	1.88	0.56
1:AB:82:TYR:HB3	1:AB:85:ILE:HD12	1.87	0.56
1:AC:235:GLY:HA3	1:AC:246:PHE:CD2	2.41	0.56
1:AI:194:HIS:HA	1:AI:197:PHE:CD2	2.41	0.56
1:AJ:235:GLY:HA3	1:AJ:246:PHE:CD2	2.41	0.56
1:AS:235:GLY:HA3	1:AS:246:PHE:CD2	2.41	0.56
1:D:235:GLY:HA3	1:D:246:PHE:CD2	2.41	0.56
1:H:194:HIS:HA	1:H:197:PHE:CD2	2.41	0.56
1:H:235:GLY:HA3	1:H:246:PHE:CD2	2.41	0.56
1:J:235:GLY:HA3	1:J:246:PHE:CD2	2.41	0.56
1:M:368:GLY:HA3	1:N:400:TYR:HB3	1.87	0.56
1:N:235:GLY:HA3	1:N:246:PHE:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:194:HIS:HA	1:O:197:PHE:CD2	2.41	0.56
1:R:235:GLY:HA3	1:R:246:PHE:CD2	2.41	0.56
1:T:328:GLU:HG3	1:T:332:ARG:HH22	1.69	0.56
1:U:235:GLY:HA3	1:U:246:PHE:CD2	2.41	0.56
1:V:235:GLY:HA3	1:V:246:PHE:CD2	2.41	0.56
1:a:235:GLY:HA3	1:a:246:PHE:HD2	1.70	0.56
1:c:288:THR:O	1:c:291:GLU:HG3	2.05	0.56
1:e:82:TYR:HB3	1:e:85:ILE:HD12	1.87	0.56
1:f:193:LYS:HG3	1:f:197:PHE:CE2	2.40	0.56
1:g:235:GLY:HA3	1:g:246:PHE:CD2	2.41	0.56
1:g:283:GLN:HA	1:g:286:LYS:HE2	1.88	0.56
1:i:288:THR:O	1:i:291:GLU:HG3	2.05	0.56
1:l:194:HIS:HA	1:l:197:PHE:CD2	2.41	0.56
1:w:283:GLN:HA	1:w:286:LYS:HE2	1.88	0.56
1:y:235:GLY:HA3	1:y:246:PHE:HD2	1.70	0.56
1:AF:194:HIS:HA	1:AF:197:PHE:CD2	2.41	0.55
1:AH:283:GLN:HA	1:AH:286:LYS:HE2	1.88	0.55
1:AO:235:GLY:HA3	1:AO:246:PHE:CD2	2.41	0.55
1:AP:194:HIS:HA	1:AP:197:PHE:CD2	2.41	0.55
1:B:82:TYR:HB3	1:B:85:ILE:HD12	1.87	0.55
1:B:235:GLY:HA3	1:B:246:PHE:HD2	1.70	0.55
1:C:202:HIS:CB	1:D:234:LEU:HA	2.36	0.55
1:E:288:THR:O	1:E:291:GLU:HG3	2.05	0.55
1:G:235:GLY:HA3	1:G:246:PHE:CD2	2.41	0.55
1:G:365:GLU:HG3	1:H:400:TYR:O	2.07	0.55
1:L:288:THR:O	1:L:291:GLU:HG3	2.05	0.55
1:R:288:THR:O	1:R:291:GLU:HG3	2.05	0.55
1:U:82:TYR:HB3	1:U:85:ILE:HD12	1.87	0.55
1:i:194:HIS:HA	1:i:197:PHE:CD2	2.41	0.55
1:i:283:GLN:HA	1:i:286:LYS:HE2	1.88	0.55
1:m:82:TYR:HB3	1:m:85:ILE:HD12	1.87	0.55
1:p:235:GLY:HA3	1:p:246:PHE:CD2	2.41	0.55
1:r:82:TYR:HB3	1:r:85:ILE:HD12	1.87	0.55
1:r:194:HIS:HA	1:r:197:PHE:CD2	2.41	0.55
1:r:288:THR:O	1:r:291:GLU:HG3	2.05	0.55
1:s:235:GLY:HA3	1:s:246:PHE:CD2	2.41	0.55
1:x:283:GLN:HA	1:x:286:LYS:HE2	1.89	0.55
1:z:235:GLY:HA3	1:z:246:PHE:HD2	1.70	0.55
1:1:400:TYR:O	1:z:365:GLU:HG3	2.06	0.55
1:3:191:LYS:HA	1:3:194:HIS:CD2	2.42	0.55
1:3:288:THR:O	1:3:291:GLU:HG3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:283:GLN:HA	1:5:286:LYS:HE2	1.89	0.55
1:6:283:GLN:HA	1:6:286:LYS:HE2	1.88	0.55
1:A:82:TYR:HB3	1:A:85:ILE:HD12	1.87	0.55
1:AA:194:HIS:HA	1:AA:197:PHE:CD2	2.41	0.55
1:AG:82:TYR:HB3	1:AG:85:ILE:HD12	1.87	0.55
1:AH:235:GLY:HA3	1:AH:246:PHE:CD2	2.41	0.55
1:AK:194:HIS:HA	1:AK:197:PHE:CD2	2.41	0.55
1:AM:235:GLY:HA3	1:AM:246:PHE:CD2	2.41	0.55
1:AN:235:GLY:HA3	1:AN:246:PHE:CD2	2.41	0.55
1:AQ:235:GLY:HA3	1:AQ:246:PHE:CD2	2.41	0.55
1:D:194:HIS:HA	1:D:197:PHE:CD2	2.41	0.55
1:F:288:THR:O	1:F:291:GLU:HG3	2.05	0.55
1:G:191:LYS:HA	1:G:194:HIS:CD2	2.42	0.55
1:H:191:LYS:HA	1:H:194:HIS:CD2	2.42	0.55
1:H:288:THR:O	1:H:291:GLU:HG3	2.05	0.55
1:I:213:LEU:HD11	1:J:227:PHE:HB2	1.86	0.55
1:M:283:GLN:HA	1:M:286:LYS:HE2	1.89	0.55
1:O:191:LYS:HA	1:O:194:HIS:CD2	2.42	0.55
1:O:235:GLY:HA3	1:O:246:PHE:CD2	2.41	0.55
1:Q:235:GLY:HA3	1:Q:246:PHE:CD2	2.41	0.55
1:Q:288:THR:O	1:Q:291:GLU:HG3	2.05	0.55
1:T:235:GLY:HA3	1:T:246:PHE:CD2	2.41	0.55
1:Z:235:GLY:HA3	1:Z:246:PHE:CD2	2.41	0.55
1:b:400:TYR:HB3	1:c:368:GLY:HA3	1.88	0.55
1:e:194:HIS:HA	1:e:197:PHE:CD2	2.41	0.55
1:g:194:HIS:HA	1:g:197:PHE:CD2	2.41	0.55
1:l:235:GLY:HA3	1:l:246:PHE:CD2	2.41	0.55
1:m:235:GLY:HA3	1:m:246:PHE:CD2	2.41	0.55
1:n:235:GLY:HA3	1:n:246:PHE:CD2	2.41	0.55
1:r:191:LYS:HA	1:r:194:HIS:CD2	2.42	0.55
1:u:194:HIS:HA	1:u:197:PHE:CD2	2.41	0.55
1:v:82:TYR:HB3	1:v:85:ILE:HD12	1.87	0.55
1:0:283:GLN:HA	1:0:286:LYS:HE2	1.89	0.55
1:1:140:GLU:HA	1:1:143:MET:HE2	1.89	0.55
1:4:202:HIS:HB3	1:5:234:LEU:HA	1.88	0.55
1:5:191:LYS:HA	1:5:194:HIS:CD2	2.42	0.55
1:5:288:THR:O	1:5:291:GLU:HG3	2.05	0.55
1:8:202:HIS:CE1	1:9:237:CYS:HB3	2.40	0.55
1:8:235:GLY:HA3	1:8:246:PHE:CD2	2.41	0.55
1:AD:283:GLN:HA	1:AD:286:LYS:HE2	1.89	0.55
1:AG:194:HIS:HA	1:AG:197:PHE:CD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:191:LYS:HA	1:AI:194:HIS:CD2	2.42	0.55
1:AK:283:GLN:HA	1:AK:286:LYS:HE2	1.89	0.55
1:AL:82:TYR:HB3	1:AL:85:ILE:HD12	1.87	0.55
1:AL:235:GLY:HA3	1:AL:246:PHE:CD2	2.41	0.55
1:AM:191:LYS:HA	1:AM:194:HIS:CD2	2.42	0.55
1:AO:283:GLN:HA	1:AO:286:LYS:HE2	1.88	0.55
1:AP:235:GLY:HA3	1:AP:246:PHE:CD2	2.41	0.55
1:AP:288:THR:O	1:AP:291:GLU:HG3	2.05	0.55
1:B:191:LYS:HA	1:B:194:HIS:CD2	2.42	0.55
1:C:372:HIS:HB2	1:D:400:TYR:HE2	1.71	0.55
1:G:288:THR:O	1:G:291:GLU:HG3	2.05	0.55
1:I:191:LYS:HA	1:I:194:HIS:CD2	2.42	0.55
1:J:82:TYR:HB3	1:J:85:ILE:HD12	1.87	0.55
1:J:191:LYS:HA	1:J:194:HIS:CD2	2.42	0.55
1:Q:194:HIS:HA	1:Q:197:PHE:CD2	2.41	0.55
1:V:191:LYS:HA	1:V:194:HIS:CD2	2.42	0.55
1:Y:235:GLY:HA3	1:Y:246:PHE:CD2	2.41	0.55
1:Y:283:GLN:HA	1:Y:286:LYS:HE2	1.89	0.55
1:Y:288:THR:O	1:Y:291:GLU:HG3	2.05	0.55
1:d:235:GLY:HA3	1:d:246:PHE:CD2	2.41	0.55
1:g:235:GLY:HA3	1:g:246:PHE:HD2	1.70	0.55
1:k:288:THR:O	1:k:291:GLU:HG3	2.05	0.55
1:l:191:LYS:HA	1:l:194:HIS:CD2	2.42	0.55
1:m:191:LYS:HA	1:m:194:HIS:CD2	2.42	0.55
1:n:365:GLU:HG3	1:o:400:TYR:O	2.07	0.55
1:o:191:LYS:HA	1:o:194:HIS:CD2	2.42	0.55
1:q:191:LYS:HA	1:q:194:HIS:CD2	2.42	0.55
1:s:194:HIS:HA	1:s:197:PHE:CD2	2.41	0.55
1:v:372:HIS:HB2	1:w:400:TYR:HE2	1.71	0.55
1:w:235:GLY:HA3	1:w:246:PHE:CD2	2.41	0.55
1:1:235:GLY:HA3	1:1:246:PHE:CD2	2.41	0.55
1:3:283:GLN:HA	1:3:286:LYS:HE2	1.89	0.55
1:6:191:LYS:HA	1:6:194:HIS:CD2	2.42	0.55
1:8:191:LYS:HA	1:8:194:HIS:CD2	2.42	0.55
1:8:372:HIS:HB2	1:9:400:TYR:HE2	1.71	0.55
1:AA:365:GLU:HG3	1:AB:400:TYR:O	2.07	0.55
1:AC:82:TYR:HB3	1:AC:85:ILE:HD12	1.87	0.55
1:AF:283:GLN:HA	1:AF:286:LYS:HE2	1.89	0.55
1:AK:235:GLY:HA3	1:AK:246:PHE:CD2	2.41	0.55
1:AN:82:TYR:HB3	1:AN:85:ILE:HD12	1.87	0.55
1:AO:191:LYS:HA	1:AO:194:HIS:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:191:LYS:HA	1:AR:194:HIS:CD2	2.42	0.55
1:AR:283:GLN:HA	1:AR:286:LYS:HE2	1.89	0.55
1:AS:283:GLN:HA	1:AS:286:LYS:HE2	1.89	0.55
1:I:288:THR:O	1:I:291:GLU:HG3	2.05	0.55
1:K:194:HIS:HA	1:K:197:PHE:CD2	2.41	0.55
1:L:82:TYR:HB3	1:L:85:ILE:HD12	1.87	0.55
1:L:191:LYS:HA	1:L:194:HIS:CD2	2.42	0.55
1:M:191:LYS:HA	1:M:194:HIS:CD2	2.42	0.55
1:O:283:GLN:HA	1:O:286:LYS:HE2	1.89	0.55
1:S:283:GLN:HA	1:S:286:LYS:HE2	1.89	0.55
1:T:140:GLU:HA	1:T:143:MET:HE2	1.89	0.55
1:W:191:LYS:HA	1:W:194:HIS:CD2	2.42	0.55
1:b:82:TYR:HB3	1:b:85:ILE:HD12	1.87	0.55
1:h:82:TYR:HB3	1:h:85:ILE:HD12	1.87	0.55
1:h:191:LYS:HA	1:h:194:HIS:CD2	2.42	0.55
1:i:191:LYS:HA	1:i:194:HIS:CD2	2.42	0.55
1:i:235:GLY:HA3	1:i:246:PHE:CD2	2.41	0.55
1:o:283:GLN:HA	1:o:286:LYS:HE2	1.89	0.55
1:p:191:LYS:HA	1:p:194:HIS:CD2	2.42	0.55
1:p:194:HIS:HA	1:p:197:PHE:CD2	2.41	0.55
1:s:191:LYS:HA	1:s:194:HIS:CD2	2.42	0.55
1:t:140:GLU:HA	1:t:143:MET:HE2	1.89	0.55
1:t:283:GLN:HA	1:t:286:LYS:HE2	1.88	0.55
1:u:140:GLU:HA	1:u:143:MET:HE2	1.89	0.55
1:u:283:GLN:HA	1:u:286:LYS:HE2	1.89	0.55
1:0:191:LYS:HA	1:0:194:HIS:CD2	2.42	0.55
1:2:235:GLY:HA3	1:2:246:PHE:CD2	2.41	0.55
1:3:140:GLU:HA	1:3:143:MET:HE2	1.89	0.55
1:7:82:TYR:HB3	1:7:85:ILE:HD12	1.87	0.55
1:AC:140:GLU:HA	1:AC:143:MET:HE2	1.89	0.55
1:AE:82:TYR:HB3	1:AE:85:ILE:HD12	1.87	0.55
1:AE:140:GLU:HA	1:AE:143:MET:HE2	1.89	0.55
1:AE:202:HIS:HB3	1:AF:234:LEU:HA	1.88	0.55
1:AF:140:GLU:HA	1:AF:143:MET:HE2	1.89	0.55
1:AI:288:THR:O	1:AI:291:GLU:HG3	2.05	0.55
1:AM:283:GLN:HA	1:AM:286:LYS:HE2	1.89	0.55
1:D:191:LYS:HA	1:D:194:HIS:CD2	2.42	0.55
1:E:283:GLN:HA	1:E:286:LYS:HE2	1.89	0.55
1:K:191:LYS:HA	1:K:194:HIS:CD2	2.42	0.55
1:K:288:THR:O	1:K:291:GLU:HG3	2.05	0.55
1:P:191:LYS:HA	1:P:194:HIS:CD2	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:191:LYS:HA	1:Q:194:HIS:CD2	2.42	0.55
1:Q:283:GLN:HA	1:Q:286:LYS:HE2	1.88	0.55
1:S:194:HIS:HA	1:S:197:PHE:CD2	2.41	0.55
1:S:235:GLY:HA3	1:S:246:PHE:CD2	2.41	0.55
1:W:288:THR:O	1:W:291:GLU:HG3	2.05	0.55
1:X:82:TYR:HB3	1:X:85:ILE:HD12	1.87	0.55
1:X:191:LYS:HA	1:X:194:HIS:CD2	2.42	0.55
1:a:194:HIS:HA	1:a:197:PHE:CD2	2.41	0.55
1:a:283:GLN:HA	1:a:286:LYS:HE2	1.89	0.55
1:c:283:GLN:HA	1:c:286:LYS:HE2	1.89	0.55
1:d:82:TYR:HB3	1:d:85:ILE:HD12	1.87	0.55
1:d:191:LYS:HA	1:d:194:HIS:CD2	2.42	0.55
1:k:283:GLN:HA	1:k:286:LYS:HE2	1.89	0.55
1:n:140:GLU:HA	1:n:143:MET:HE2	1.89	0.55
1:o:140:GLU:HA	1:o:143:MET:HE2	1.89	0.55
1:o:288:THR:O	1:o:291:GLU:HG3	2.05	0.55
1:q:194:HIS:HA	1:q:197:PHE:CD2	2.41	0.55
1:t:235:GLY:HA3	1:t:246:PHE:CD2	2.41	0.55
1:x:140:GLU:HA	1:x:143:MET:HE2	1.89	0.55
1:y:140:GLU:HA	1:y:143:MET:HE2	1.89	0.55
1:z:140:GLU:HA	1:z:143:MET:HE2	1.89	0.55
1:z:283:GLN:HA	1:z:286:LYS:HE2	1.88	0.55
1:2:82:TYR:HB3	1:2:85:ILE:HD12	1.87	0.55
1:8:195:TYR:OH	1:9:238:GLU:HA	2.07	0.55
1:9:235:GLY:HA3	1:9:246:PHE:HD2	1.70	0.55
1:AD:235:GLY:HA3	1:AD:246:PHE:CD2	2.41	0.55
1:AI:283:GLN:HA	1:AI:286:LYS:HE2	1.89	0.55
1:AM:194:HIS:HA	1:AM:197:PHE:CD2	2.41	0.55
1:AP:283:GLN:HA	1:AP:286:LYS:HE2	1.88	0.55
1:G:82:TYR:HB3	1:G:85:ILE:HD12	1.87	0.55
1:K:202:HIS:HB3	1:L:234:LEU:HA	1.88	0.55
1:M:235:GLY:HA3	1:M:246:PHE:CD2	2.41	0.55
1:Q:365:GLU:HG3	1:R:400:TYR:O	2.07	0.55
1:W:283:GLN:HA	1:W:286:LYS:HE2	1.88	0.55
1:c:235:GLY:HA3	1:c:246:PHE:CD2	2.41	0.55
1:e:191:LYS:HA	1:e:194:HIS:CD2	2.42	0.55
1:h:140:GLU:HA	1:h:143:MET:HE2	1.89	0.55
1:i:140:GLU:HA	1:i:143:MET:HE2	1.89	0.55
1:j:82:TYR:HB3	1:j:85:ILE:HD12	1.87	0.55
1:k:191:LYS:HA	1:k:194:HIS:CD2	2.42	0.55
1:k:194:HIS:HA	1:k:197:PHE:CD2	2.41	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:191:LYS:HA	1:n:194:HIS:CD2	2.42	0.55
1:v:140:GLU:HA	1:v:143:MET:HE2	1.89	0.55
1:v:195:TYR:OH	1:w:238:GLU:HA	2.07	0.55
1:w:140:GLU:HA	1:w:143:MET:HE2	1.89	0.55
1:1:191:LYS:HA	1:1:194:HIS:CD2	2.42	0.55
1:9:191:LYS:HA	1:9:194:HIS:CD2	2.42	0.55
1:A:209:HIS:CE1	1:B:229:LYS:NZ	2.75	0.55
1:A:368:GLY:HA3	1:B:400:TYR:HB3	1.87	0.55
1:AA:288:THR:O	1:AA:291:GLU:HG3	2.05	0.55
1:AE:235:GLY:HA3	1:AE:246:PHE:CD2	2.41	0.55
1:AE:283:GLN:HA	1:AE:286:LYS:HE2	1.89	0.55
1:AF:191:LYS:HA	1:AF:194:HIS:CD2	2.42	0.55
1:AH:191:LYS:HA	1:AH:194:HIS:CD2	2.42	0.55
1:AJ:191:LYS:HA	1:AJ:194:HIS:CD2	2.42	0.55
1:AK:288:THR:O	1:AK:291:GLU:HG3	2.05	0.55
1:AO:194:HIS:HA	1:AO:197:PHE:CD2	2.41	0.55
1:AR:235:GLY:HA3	1:AR:246:PHE:CD2	2.41	0.55
1:C:82:TYR:HB3	1:C:85:ILE:HD12	1.87	0.55
1:F:191:LYS:HA	1:F:194:HIS:CD2	2.42	0.55
1:H:283:GLN:HA	1:H:286:LYS:HE2	1.89	0.55
1:N:140:GLU:HA	1:N:143:MET:HE2	1.89	0.55
1:N:191:LYS:HA	1:N:194:HIS:CD2	2.42	0.55
1:S:140:GLU:HA	1:S:143:MET:HE2	1.89	0.55
1:b:191:LYS:HA	1:b:194:HIS:CD2	2.42	0.55
1:f:191:LYS:HA	1:f:194:HIS:CD2	2.42	0.55
1:g:140:GLU:HA	1:g:143:MET:HE2	1.89	0.55
1:v:283:GLN:HA	1:v:286:LYS:HE2	1.88	0.55
1:x:191:LYS:HA	1:x:194:HIS:CD2	2.42	0.55
1:x:235:GLY:HA3	1:x:246:PHE:CD2	2.41	0.55
1:y:82:TYR:HB3	1:y:85:ILE:HD12	1.87	0.55
1:y:235:GLY:HA3	1:y:246:PHE:CD2	2.41	0.55
1:1:283:GLN:HA	1:1:286:LYS:HE2	1.89	0.55
1:2:191:LYS:HA	1:2:194:HIS:CD2	2.42	0.55
1:8:140:GLU:HA	1:8:143:MET:HE2	1.89	0.55
1:9:140:GLU:HA	1:9:143:MET:HE2	1.89	0.55
1:AD:140:GLU:HA	1:AD:143:MET:HE2	1.89	0.55
1:AG:283:GLN:HA	1:AG:286:LYS:HE2	1.89	0.55
1:AH:197:PHE:O	1:AH:200:GLU:HG3	2.07	0.55
1:AK:191:LYS:HA	1:AK:194:HIS:CD2	2.42	0.55
1:AP:191:LYS:HA	1:AP:194:HIS:CD2	2.42	0.55
1:AQ:82:TYR:HB3	1:AQ:85:ILE:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:82:TYR:HB3	1:F:85:ILE:HD12	1.87	0.55
1:K:235:GLY:HA3	1:K:246:PHE:CD2	2.41	0.55
1:P:82:TYR:HB3	1:P:85:ILE:HD12	1.87	0.55
1:Q:197:PHE:O	1:Q:200:GLU:HG3	2.07	0.55
1:T:82:TYR:HB3	1:T:85:ILE:HD12	1.87	0.55
1:U:197:PHE:O	1:U:200:GLU:HG3	2.07	0.55
1:Y:191:LYS:HA	1:Y:194:HIS:CD2	2.42	0.55
1:Z:191:LYS:HA	1:Z:194:HIS:CD2	2.42	0.55
1:e:197:PHE:O	1:e:200:GLU:HG3	2.07	0.55
1:f:82:TYR:HB3	1:f:85:ILE:HD12	1.87	0.55
1:f:140:GLU:HA	1:f:143:MET:HE2	1.89	0.55
1:g:191:LYS:HA	1:g:194:HIS:CD2	2.42	0.55
1:n:82:TYR:HB3	1:n:85:ILE:HD12	1.87	0.55
1:q:235:GLY:HA3	1:q:246:PHE:CD2	2.41	0.55
1:v:191:LYS:HA	1:v:194:HIS:CD2	2.42	0.55
1:y:191:LYS:HA	1:y:194:HIS:CD2	2.42	0.55
1:0:197:PHE:O	1:0:200:GLU:HG3	2.07	0.55
1:3:235:GLY:HA3	1:3:246:PHE:CD2	2.41	0.55
1:6:368:GLY:HA3	1:7:400:TYR:HB3	1.87	0.55
1:7:283:GLN:HA	1:7:286:LYS:HE2	1.89	0.55
1:AA:197:PHE:O	1:AA:200:GLU:HG3	2.07	0.55
1:AB:235:GLY:HA3	1:AB:246:PHE:CD2	2.41	0.55
1:AC:197:PHE:O	1:AC:200:GLU:HG3	2.07	0.55
1:AD:191:LYS:HA	1:AD:194:HIS:CD2	2.42	0.55
1:AD:197:PHE:O	1:AD:200:GLU:HG3	2.07	0.55
1:AI:197:PHE:O	1:AI:200:GLU:HG3	2.07	0.55
1:AJ:140:GLU:HA	1:AJ:143:MET:HE2	1.89	0.55
1:AK:197:PHE:O	1:AK:200:GLU:HG3	2.07	0.55
1:AL:183:GLU:HB3	1:I:320:ARG:NH2	2.21	0.55
1:AP:197:PHE:O	1:AP:200:GLU:HG3	2.07	0.55
1:AP:235:GLY:HA3	1:AP:246:PHE:HD2	1.70	0.55
1:AR:197:PHE:O	1:AR:200:GLU:HG3	2.07	0.55
1:AS:140:GLU:HA	1:AS:143:MET:HE2	1.89	0.55
1:AS:191:LYS:HA	1:AS:194:HIS:CD2	2.42	0.55
1:C:195:TYR:OH	1:D:238:GLU:HA	2.07	0.55
1:D:197:PHE:O	1:D:200:GLU:HG3	2.07	0.55
1:E:191:LYS:HA	1:E:194:HIS:CD2	2.42	0.55
1:E:235:GLY:HA3	1:E:246:PHE:CD2	2.41	0.55
1:I:194:HIS:HA	1:I:197:PHE:CD2	2.41	0.55
1:K:197:PHE:O	1:K:200:GLU:HG3	2.07	0.55
1:M:140:GLU:HA	1:M:143:MET:HE2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:140:GLU:HA	1:P:143:MET:HE2	1.89	0.55
1:U:283:GLN:HA	1:U:286:LYS:HE2	1.89	0.55
1:Z:82:TYR:HB3	1:Z:85:ILE:HD12	1.87	0.55
1:m:194:HIS:HA	1:m:197:PHE:CD2	2.41	0.55
1:o:235:GLY:HA3	1:o:246:PHE:CD2	2.41	0.55
1:p:400:TYR:HB3	1:q:368:GLY:HA3	1.89	0.55
1:q:283:GLN:HA	1:q:286:LYS:HE2	1.89	0.55
1:t:197:PHE:O	1:t:200:GLU:HG3	2.07	0.55
1:u:235:GLY:HA3	1:u:246:PHE:CD2	2.41	0.55
1:y:283:GLN:HA	1:y:286:LYS:HE2	1.89	0.55
1:0:194:HIS:HA	1:0:197:PHE:CD2	2.41	0.55
1:6:209:HIS:CE1	1:7:229:LYS:NZ	2.75	0.55
1:7:235:GLY:HA3	1:7:246:PHE:CD2	2.41	0.55
1:9:283:GLN:HA	1:9:286:LYS:HE2	1.89	0.55
1:A:223:SER:HB2	1:B:213:LEU:HD23	1.89	0.55
1:AA:191:LYS:HA	1:AA:194:HIS:CD2	2.42	0.55
1:AC:283:GLN:HA	1:AC:286:LYS:HE2	1.89	0.55
1:AE:197:PHE:O	1:AE:200:GLU:HG3	2.07	0.55
1:AG:197:PHE:O	1:AG:200:GLU:HG3	2.07	0.55
1:AI:140:GLU:HA	1:AI:143:MET:HE2	1.89	0.55
1:AJ:82:TYR:HB3	1:AJ:85:ILE:HD12	1.87	0.55
1:AM:62:LYS:HG2	1:AM:137:GLN:HA	1.89	0.55
1:AN:191:LYS:HA	1:AN:194:HIS:CD2	2.42	0.55
1:AO:197:PHE:O	1:AO:200:GLU:HG3	2.07	0.55
1:AR:140:GLU:HA	1:AR:143:MET:HE2	1.89	0.55
1:C:191:LYS:HA	1:C:194:HIS:CD2	2.42	0.55
1:E:197:PHE:O	1:E:200:GLU:HG3	2.07	0.55
1:I:283:GLN:HA	1:I:286:LYS:HE2	1.89	0.55
1:J:197:PHE:O	1:J:200:GLU:HG3	2.07	0.55
1:K:283:GLN:HA	1:K:286:LYS:HE2	1.89	0.55
1:O:140:GLU:HA	1:O:143:MET:HE2	1.89	0.55
1:T:283:GLN:HA	1:T:286:LYS:HE2	1.89	0.55
1:U:140:GLU:HA	1:U:143:MET:HE2	1.89	0.55
1:U:191:LYS:HA	1:U:194:HIS:CD2	2.42	0.55
1:V:82:TYR:HB3	1:V:85:ILE:HD12	1.87	0.55
1:Y:62:LYS:HG2	1:Y:137:GLN:HA	1.89	0.55
1:Y:197:PHE:O	1:Y:200:GLU:HG3	2.07	0.55
1:Z:283:GLN:HA	1:Z:286:LYS:HE2	1.89	0.55
1:c:191:LYS:HA	1:c:194:HIS:CD2	2.42	0.55
1:c:197:PHE:O	1:c:200:GLU:HG3	2.07	0.55
1:k:197:PHE:O	1:k:200:GLU:HG3	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:235:GLY:HA3	1:k:246:PHE:CD2	2.41	0.55
1:t:223:SER:HB2	1:u:213:LEU:HD23	1.89	0.55
1:u:197:PHE:O	1:u:200:GLU:HG3	2.07	0.55
1:v:197:PHE:O	1:v:200:GLU:HG3	2.07	0.55
1:z:191:LYS:HA	1:z:194:HIS:CD2	2.42	0.55
1:z:235:GLY:HA3	1:z:246:PHE:CD2	2.41	0.55
1:1:82:TYR:HB3	1:1:85:ILE:HD12	1.87	0.54
1:2:140:GLU:HA	1:2:143:MET:HE2	1.89	0.54
1:5:197:PHE:O	1:5:200:GLU:HG3	2.07	0.54
1:7:191:LYS:HA	1:7:194:HIS:CD2	2.42	0.54
1:8:62:LYS:HG2	1:8:137:GLN:HA	1.90	0.54
1:AD:62:LYS:HG2	1:AD:137:GLN:HA	1.89	0.54
1:AH:62:LYS:HG2	1:AH:137:GLN:HA	1.90	0.54
1:AH:140:GLU:HA	1:AH:143:MET:HE2	1.89	0.54
1:AO:62:LYS:HG2	1:AO:137:GLN:HA	1.90	0.54
1:B:197:PHE:O	1:B:200:GLU:HG3	2.07	0.54
1:D:283:GLN:HA	1:D:286:LYS:HE2	1.89	0.54
1:E:62:LYS:HG2	1:E:137:GLN:HA	1.89	0.54
1:E:194:HIS:HA	1:E:197:PHE:CD2	2.41	0.54
1:I:62:LYS:HG2	1:I:137:GLN:HA	1.89	0.54
1:I:197:PHE:O	1:I:200:GLU:HG3	2.07	0.54
1:M:209:HIS:CE1	1:N:229:LYS:NZ	2.75	0.54
1:O:62:LYS:HG2	1:O:137:GLN:HA	1.90	0.54
1:Q:62:LYS:HG2	1:Q:137:GLN:HA	1.90	0.54
1:S:62:LYS:HG2	1:S:137:GLN:HA	1.89	0.54
1:Y:140:GLU:HA	1:Y:143:MET:HE2	1.89	0.54
1:m:197:PHE:O	1:m:200:GLU:HG3	2.07	0.54
1:m:283:GLN:HA	1:m:286:LYS:HE2	1.89	0.54
1:s:283:GLN:HA	1:s:286:LYS:HE2	1.89	0.54
1:t:62:LYS:HG2	1:t:137:GLN:HA	1.90	0.54
1:t:191:LYS:HA	1:t:194:HIS:CD2	2.42	0.54
1:v:202:HIS:CB	1:w:234:LEU:HA	2.36	0.54
1:x:62:LYS:HG2	1:x:137:GLN:HA	1.89	0.54
1:3:62:LYS:HG2	1:3:137:GLN:HA	1.90	0.54
1:AA:62:LYS:HG2	1:AA:137:GLN:HA	1.90	0.54
1:AE:62:LYS:HG2	1:AE:137:GLN:HA	1.89	0.54
1:AF:62:LYS:HG2	1:AF:137:GLN:HA	1.90	0.54
1:AF:235:GLY:HA3	1:AF:246:PHE:CD2	2.41	0.54
1:AG:140:GLU:HA	1:AG:143:MET:HE2	1.89	0.54
1:AI:235:GLY:HA3	1:AI:246:PHE:CD2	2.41	0.54
1:AK:62:LYS:HG2	1:AK:137:GLN:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AL:191:LYS:HA	1:AL:194:HIS:CD2	2.42	0.54
1:AP:62:LYS:HG2	1:AP:137:GLN:HA	1.90	0.54
1:AQ:191:LYS:HA	1:AQ:194:HIS:CD2	2.42	0.54
1:AR:62:LYS:HG2	1:AR:137:GLN:HA	1.89	0.54
1:F:197:PHE:O	1:F:200:GLU:HG3	2.07	0.54
1:M:197:PHE:O	1:M:200:GLU:HG3	2.07	0.54
1:N:82:TYR:HB3	1:N:85:ILE:HD12	1.87	0.54
1:T:197:PHE:O	1:T:200:GLU:HG3	2.07	0.54
1:W:62:LYS:HG2	1:W:137:GLN:HA	1.90	0.54
1:Z:197:PHE:O	1:Z:200:GLU:HG3	2.07	0.54
1:a:62:LYS:HG2	1:a:137:GLN:HA	1.90	0.54
1:a:191:LYS:HA	1:a:194:HIS:CD2	2.42	0.54
1:c:62:LYS:HG2	1:c:137:GLN:HA	1.90	0.54
1:g:62:LYS:HG2	1:g:137:GLN:HA	1.90	0.54
1:h:283:GLN:HA	1:h:286:LYS:HE2	1.89	0.54
1:l:62:LYS:HG2	1:l:137:GLN:HA	1.90	0.54
1:l:283:GLN:HA	1:l:286:LYS:HE2	1.89	0.54
1:m:62:LYS:HG2	1:m:137:GLN:HA	1.89	0.54
1:n:283:GLN:HA	1:n:286:LYS:HE2	1.89	0.54
1:p:197:PHE:O	1:p:200:GLU:HG3	2.07	0.54
1:r:197:PHE:O	1:r:200:GLU:HG3	2.07	0.54
1:t:209:HIS:CE1	1:u:229:LYS:NZ	2.75	0.54
1:v:235:GLY:HA3	1:v:246:PHE:CD2	2.41	0.54
1:w:62:LYS:HG2	1:w:137:GLN:HA	1.90	0.54
1:1:197:PHE:O	1:1:200:GLU:HG3	2.07	0.54
1:4:191:LYS:HA	1:4:194:HIS:CD2	2.42	0.54
1:5:62:LYS:HG2	1:5:137:GLN:HA	1.90	0.54
1:6:140:GLU:HA	1:6:143:MET:HE2	1.89	0.54
1:9:62:LYS:HG2	1:9:137:GLN:HA	1.90	0.54
1:9:235:GLY:HA3	1:9:246:PHE:CD2	2.41	0.54
1:AF:197:PHE:O	1:AF:200:GLU:HG3	2.07	0.54
1:AN:197:PHE:O	1:AN:200:GLU:HG3	2.07	0.54
1:M:62:LYS:HG2	1:M:137:GLN:HA	1.90	0.54
1:O:195:TYR:OH	1:P:238:GLU:HA	2.07	0.54
1:R:82:TYR:HB3	1:R:85:ILE:HD12	1.87	0.54
1:R:191:LYS:HA	1:R:194:HIS:CD2	2.42	0.54
1:S:191:LYS:HA	1:S:194:HIS:CD2	2.42	0.54
1:T:191:LYS:HA	1:T:194:HIS:CD2	2.42	0.54
1:V:223:SER:HB2	1:W:213:LEU:HD23	1.89	0.54
1:W:197:PHE:O	1:W:200:GLU:HG3	2.07	0.54
1:Z:140:GLU:HA	1:Z:143:MET:HE2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:140:GLU:HA	1:c:143:MET:HE2	1.89	0.54
1:f:283:GLN:HA	1:f:286:LYS:HE2	1.89	0.54
1:j:197:PHE:O	1:j:200:GLU:HG3	2.07	0.54
1:k:140:GLU:HA	1:k:143:MET:HE2	1.89	0.54
1:r:202:HIS:HB3	1:s:234:LEU:HA	1.88	0.54
1:u:62:LYS:HG2	1:u:137:GLN:HA	1.90	0.54
1:v:62:LYS:HG2	1:v:137:GLN:HA	1.90	0.54
1:z:62:LYS:HG2	1:z:137:GLN:HA	1.90	0.54
1:1:62:LYS:HG2	1:1:137:GLN:HA	1.90	0.54
1:2:318:LEU:O	1:AO:182:VAL:CG2	2.52	0.54
1:6:62:LYS:HG2	1:6:137:GLN:HA	1.90	0.54
1:9:197:PHE:O	1:9:200:GLU:HG3	2.07	0.54
1:AG:62:LYS:HG2	1:AG:137:GLN:HA	1.90	0.54
1:AG:191:LYS:HA	1:AG:194:HIS:CD2	2.42	0.54
1:AK:140:GLU:HA	1:AK:143:MET:HE2	1.89	0.54
1:AL:140:GLU:HA	1:AL:143:MET:HE2	1.89	0.54
1:AS:62:LYS:HG2	1:AS:137:GLN:HA	1.90	0.54
1:B:283:GLN:HA	1:B:286:LYS:HE2	1.89	0.54
1:H:197:PHE:O	1:H:200:GLU:HG3	2.07	0.54
1:O:197:PHE:O	1:O:200:GLU:HG3	2.07	0.54
1:V:209:HIS:CE1	1:W:229:LYS:NZ	2.75	0.54
1:X:140:GLU:HA	1:X:143:MET:HE2	1.89	0.54
1:Z:62:LYS:HG2	1:Z:137:GLN:HA	1.90	0.54
1:a:140:GLU:HA	1:a:143:MET:HE2	1.89	0.54
1:f:197:PHE:O	1:f:200:GLU:HG3	2.07	0.54
1:i:62:LYS:HG2	1:i:137:GLN:HA	1.90	0.54
1:p:62:LYS:HG2	1:p:137:GLN:HA	1.89	0.54
1:p:283:GLN:HA	1:p:286:LYS:HE2	1.89	0.54
1:q:62:LYS:HG2	1:q:137:GLN:HA	1.90	0.54
1:q:197:PHE:O	1:q:200:GLU:HG3	2.07	0.54
1:s:62:LYS:HG2	1:s:137:GLN:HA	1.90	0.54
1:w:191:LYS:HA	1:w:194:HIS:CD2	2.42	0.54
1:y:197:PHE:O	1:y:200:GLU:HG3	2.07	0.54
1:0:62:LYS:HG2	1:0:137:GLN:HA	1.90	0.54
1:4:235:GLY:HA3	1:4:246:PHE:CD2	2.41	0.54
1:5:140:GLU:HA	1:5:143:MET:HE2	1.89	0.54
1:A:62:LYS:HG2	1:A:137:GLN:HA	1.90	0.54
1:AB:197:PHE:O	1:AB:200:GLU:HG3	2.07	0.54
1:AI:62:LYS:HG2	1:AI:137:GLN:HA	1.90	0.54
1:AS:197:PHE:O	1:AS:200:GLU:HG3	2.07	0.54
1:K:62:LYS:HG2	1:K:137:GLN:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:197:PHE:O	1:L:200:GLU:HG3	2.07	0.54
1:R:197:PHE:O	1:R:200:GLU:HG3	2.07	0.54
1:S:197:PHE:O	1:S:200:GLU:HG3	2.07	0.54
1:U:62:LYS:HG2	1:U:137:GLN:HA	1.90	0.54
1:b:140:GLU:HA	1:b:143:MET:HE2	1.89	0.54
1:d:197:PHE:O	1:d:200:GLU:HG3	2.07	0.54
1:f:62:LYS:HG2	1:f:137:GLN:HA	1.89	0.54
1:h:197:PHE:O	1:h:200:GLU:HG3	2.07	0.54
1:k:62:LYS:HG2	1:k:137:GLN:HA	1.90	0.54
1:o:62:LYS:HG2	1:o:137:GLN:HA	1.90	0.54
1:y:62:LYS:HG2	1:y:137:GLN:HA	1.90	0.54
1:7:62:LYS:HG2	1:7:137:GLN:HA	1.90	0.54
1:A:191:LYS:HA	1:A:194:HIS:CD2	2.42	0.54
1:A:283:GLN:HA	1:A:286:LYS:HE2	1.88	0.54
1:AC:62:LYS:HG2	1:AC:137:GLN:HA	1.90	0.54
1:AE:191:LYS:HA	1:AE:194:HIS:CD2	2.42	0.54
1:AM:86:PHE:CD1	1:AM:285:ILE:HA	2.43	0.54
1:AM:197:PHE:O	1:AM:200:GLU:HG3	2.07	0.54
1:B:62:LYS:HG2	1:B:137:GLN:HA	1.90	0.54
1:C:197:PHE:O	1:C:200:GLU:HG3	2.07	0.54
1:C:283:GLN:HA	1:C:286:LYS:HE2	1.88	0.54
1:D:62:LYS:HG2	1:D:137:GLN:HA	1.89	0.54
1:H:62:LYS:HG2	1:H:137:GLN:HA	1.90	0.54
1:I:86:PHE:CD1	1:I:285:ILE:HA	2.43	0.54
1:K:140:GLU:HA	1:K:143:MET:HE2	1.89	0.54
1:P:283:GLN:HA	1:P:286:LYS:HE2	1.89	0.54
1:R:140:GLU:HA	1:R:143:MET:HE2	1.89	0.54
1:W:140:GLU:HA	1:W:143:MET:HE2	1.89	0.54
1:X:62:LYS:HG2	1:X:137:GLN:HA	1.90	0.54
1:X:283:GLN:HA	1:X:286:LYS:HE2	1.89	0.54
1:e:283:GLN:HA	1:e:286:LYS:HE2	1.89	0.54
1:i:86:PHE:CD1	1:i:285:ILE:HA	2.43	0.54
1:j:140:GLU:HA	1:j:143:MET:HE2	1.89	0.54
1:l:197:PHE:O	1:l:200:GLU:HG3	2.07	0.54
1:u:191:LYS:HA	1:u:194:HIS:CD2	2.42	0.54
1:w:197:PHE:O	1:w:200:GLU:HG3	2.07	0.54
1:2:62:LYS:HG2	1:2:137:GLN:HA	1.89	0.54
1:4:197:PHE:O	1:4:200:GLU:HG3	2.07	0.54
1:7:140:GLU:HA	1:7:143:MET:HE2	1.89	0.54
1:AB:283:GLN:HA	1:AB:286:LYS:HE2	1.88	0.54
1:AC:191:LYS:HA	1:AC:194:HIS:CD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:283:GLN:HA	1:AN:286:LYS:HE2	1.89	0.54
1:AO:140:GLU:HA	1:AO:143:MET:HE2	1.89	0.54
1:AQ:197:PHE:O	1:AQ:200:GLU:HG3	2.07	0.54
1:E:86:PHE:CD1	1:E:285:ILE:HA	2.43	0.54
1:L:283:GLN:HA	1:L:286:LYS:HE2	1.89	0.54
1:N:86:PHE:CD1	1:N:285:ILE:HA	2.43	0.54
1:O:86:PHE:CD1	1:O:285:ILE:HA	2.43	0.54
1:Q:140:GLU:HA	1:Q:143:MET:HE2	1.89	0.54
1:T:62:LYS:HG2	1:T:137:GLN:HA	1.89	0.54
1:V:140:GLU:HA	1:V:143:MET:HE2	1.89	0.54
1:d:62:LYS:HG2	1:d:137:GLN:HA	1.90	0.54
1:e:62:LYS:HG2	1:e:137:GLN:HA	1.90	0.54
1:j:191:LYS:HA	1:j:194:HIS:CD2	2.42	0.54
1:m:86:PHE:CD1	1:m:285:ILE:HA	2.43	0.54
1:2:283:GLN:HA	1:2:286:LYS:HE2	1.89	0.54
1:3:197:PHE:O	1:3:200:GLU:HG3	2.07	0.54
1:4:140:GLU:HA	1:4:143:MET:HE2	1.89	0.54
1:AA:140:GLU:HA	1:AA:143:MET:HE2	1.89	0.54
1:AJ:283:GLN:HA	1:AJ:286:LYS:HE2	1.89	0.54
1:AK:86:PHE:CD1	1:AK:285:ILE:HA	2.43	0.54
1:AL:197:PHE:O	1:AL:200:GLU:HG3	2.07	0.54
1:AL:283:GLN:HA	1:AL:286:LYS:HE2	1.89	0.54
1:AN:62:LYS:HG2	1:AN:137:GLN:HA	1.90	0.54
1:AN:140:GLU:HA	1:AN:143:MET:HE2	1.89	0.54
1:AQ:62:LYS:HG2	1:AQ:137:GLN:HA	1.90	0.54
1:AQ:140:GLU:HA	1:AQ:143:MET:HE2	1.89	0.54
1:AQ:283:GLN:HA	1:AQ:286:LYS:HE2	1.89	0.54
1:C:62:LYS:HG2	1:C:137:GLN:HA	1.90	0.54
1:F:140:GLU:HA	1:F:143:MET:HE2	1.89	0.54
1:H:86:PHE:CD1	1:H:285:ILE:HA	2.43	0.54
1:K:86:PHE:CD1	1:K:285:ILE:HA	2.43	0.54
1:L:140:GLU:HA	1:L:143:MET:HE2	1.89	0.54
1:M:86:PHE:CD1	1:M:285:ILE:HA	2.43	0.54
1:N:197:PHE:O	1:N:200:GLU:HG3	2.07	0.54
1:P:62:LYS:HG2	1:P:137:GLN:HA	1.90	0.54
1:R:62:LYS:HG2	1:R:137:GLN:HA	1.90	0.54
1:b:62:LYS:HG2	1:b:137:GLN:HA	1.90	0.54
1:b:283:GLN:HA	1:b:286:LYS:HE2	1.89	0.54
1:i:197:PHE:O	1:i:200:GLU:HG3	2.07	0.54
1:k:86:PHE:CD1	1:k:285:ILE:HA	2.43	0.54
1:n:62:LYS:HG2	1:n:137:GLN:HA	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:86:PHE:CD1	1:o:285:ILE:HA	2.43	0.54
1:o:197:PHE:O	1:o:200:GLU:HG3	2.07	0.54
1:s:86:PHE:CD1	1:s:285:ILE:HA	2.43	0.54
1:y:86:PHE:CD1	1:y:285:ILE:HA	2.43	0.54
1:0:86:PHE:CD1	1:0:285:ILE:HA	2.43	0.54
1:3:86:PHE:CD1	1:3:285:ILE:HA	2.43	0.54
1:3:275:LEU:O	1:3:279:VAL:HG23	2.08	0.54
1:4:86:PHE:CD1	1:4:285:ILE:HA	2.43	0.54
1:AA:86:PHE:CD1	1:AA:285:ILE:HA	2.43	0.54
1:AA:275:LEU:O	1:AA:279:VAL:HG23	2.08	0.54
1:AB:62:LYS:HG2	1:AB:137:GLN:HA	1.90	0.54
1:AB:140:GLU:HA	1:AB:143:MET:HE2	1.89	0.54
1:AB:191:LYS:HA	1:AB:194:HIS:CD2	2.42	0.54
1:AF:275:LEU:O	1:AF:279:VAL:HG23	2.08	0.54
1:AI:275:LEU:O	1:AI:279:VAL:HG23	2.08	0.54
1:AK:275:LEU:O	1:AK:279:VAL:HG23	2.08	0.54
1:AL:62:LYS:HG2	1:AL:137:GLN:HA	1.90	0.54
1:AM:275:LEU:O	1:AM:279:VAL:HG23	2.08	0.54
1:AO:275:LEU:O	1:AO:279:VAL:HG23	2.08	0.54
1:E:140:GLU:HA	1:E:143:MET:HE2	1.89	0.54
1:G:62:LYS:HG2	1:G:137:GLN:HA	1.89	0.54
1:G:140:GLU:HA	1:G:143:MET:HE2	1.89	0.54
1:G:283:GLN:HA	1:G:286:LYS:HE2	1.89	0.54
1:H:275:LEU:O	1:H:279:VAL:HG23	2.08	0.54
1:R:283:GLN:HA	1:R:286:LYS:HE2	1.89	0.54
1:V:62:LYS:HG2	1:V:137:GLN:HA	1.89	0.54
1:Y:86:PHE:CD1	1:Y:285:ILE:HA	2.43	0.54
1:a:275:LEU:O	1:a:279:VAL:HG23	2.08	0.54
1:d:283:GLN:HA	1:d:286:LYS:HE2	1.89	0.54
1:g:275:LEU:O	1:g:279:VAL:HG23	2.08	0.54
1:h:62:LYS:HG2	1:h:137:GLN:HA	1.90	0.54
1:j:283:GLN:HA	1:j:286:LYS:HE2	1.88	0.54
1:m:140:GLU:HA	1:m:143:MET:HE2	1.89	0.54
1:q:86:PHE:CD1	1:q:285:ILE:HA	2.43	0.54
1:s:197:PHE:O	1:s:200:GLU:HG3	2.07	0.54
1:x:275:LEU:O	1:x:279:VAL:HG23	2.08	0.54
1:z:197:PHE:O	1:z:200:GLU:HG3	2.07	0.54
1:4:283:GLN:HA	1:4:286:LYS:HE2	1.89	0.54
1:5:316:LEU:HD21	1:5:323:LYS:HB2	1.90	0.54
1:8:275:LEU:O	1:8:279:VAL:HG23	2.08	0.54
1:AP:86:PHE:CD1	1:AP:285:ILE:HA	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:140:GLU:HA	1:AP:143:MET:HE2	1.89	0.54
1:AP:275:LEU:O	1:AP:279:VAL:HG23	2.08	0.54
1:D:86:PHE:CD1	1:D:285:ILE:HA	2.43	0.54
1:D:316:LEU:HD21	1:D:323:LYS:HB2	1.90	0.54
1:I:275:LEU:O	1:I:279:VAL:HG23	2.08	0.54
1:I:316:LEU:HD21	1:I:323:LYS:HB2	1.90	0.54
1:J:62:LYS:HG2	1:J:137:GLN:HA	1.90	0.54
1:J:283:GLN:HA	1:J:286:LYS:HE2	1.89	0.54
1:K:316:LEU:HD21	1:K:323:LYS:HB2	1.90	0.54
1:L:316:LEU:HD21	1:L:323:LYS:HB2	1.90	0.54
1:M:275:LEU:O	1:M:279:VAL:HG23	2.08	0.54
1:M:316:LEU:HD21	1:M:323:LYS:HB2	1.91	0.54
1:c:86:PHE:CD1	1:c:285:ILE:HA	2.43	0.54
1:e:140:GLU:HA	1:e:143:MET:HE2	1.89	0.54
1:e:316:LEU:HD21	1:e:323:LYS:HB2	1.91	0.54
1:g:86:PHE:CD1	1:g:285:ILE:HA	2.43	0.54
1:p:86:PHE:CD1	1:p:285:ILE:HA	2.43	0.54
1:w:275:LEU:O	1:w:279:VAL:HG23	2.08	0.54
1:x:86:PHE:CD1	1:x:285:ILE:HA	2.43	0.54
1:1:86:PHE:CD1	1:1:285:ILE:HA	2.43	0.53
1:4:209:HIS:CD2	1:5:226:ASP:HB3	2.43	0.53
1:5:86:PHE:CD1	1:5:285:ILE:HA	2.43	0.53
1:5:275:LEU:O	1:5:279:VAL:HG23	2.08	0.53
1:6:86:PHE:CD1	1:6:285:ILE:HA	2.43	0.53
1:6:223:SER:HB2	1:7:213:LEU:HD23	1.89	0.53
1:7:197:PHE:O	1:7:200:GLU:HG3	2.07	0.53
1:8:86:PHE:CD1	1:8:285:ILE:HA	2.43	0.53
1:A:316:LEU:HD21	1:A:323:LYS:HB2	1.90	0.53
1:AC:86:PHE:CD1	1:AC:285:ILE:HA	2.43	0.53
1:AE:86:PHE:CD1	1:AE:285:ILE:HA	2.43	0.53
1:AI:86:PHE:CD1	1:AI:285:ILE:HA	2.43	0.53
1:AI:316:LEU:HD21	1:AI:323:LYS:HB2	1.90	0.53
1:AJ:62:LYS:HG2	1:AJ:137:GLN:HA	1.90	0.53
1:AJ:86:PHE:CD1	1:AJ:285:ILE:HA	2.43	0.53
1:AJ:197:PHE:O	1:AJ:200:GLU:HG3	2.07	0.53
1:AO:86:PHE:CD1	1:AO:285:ILE:HA	2.43	0.53
1:AQ:316:LEU:HD21	1:AQ:323:LYS:HB2	1.90	0.53
1:E:316:LEU:HD21	1:E:323:LYS:HB2	1.90	0.53
1:F:62:LYS:HG2	1:F:137:GLN:HA	1.89	0.53
1:F:316:LEU:HD21	1:F:323:LYS:HB2	1.90	0.53
1:H:140:GLU:HA	1:H:143:MET:HE2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:316:LEU:HD21	1:O:323:LYS:HB2	1.91	0.53
1:Q:275:LEU:O	1:Q:279:VAL:HG23	2.08	0.53
1:R:316:LEU:HD21	1:R:323:LYS:HB2	1.91	0.53
1:V:197:PHE:O	1:V:200:GLU:HG3	2.07	0.53
1:V:283:GLN:HA	1:V:286:LYS:HE2	1.89	0.53
1:b:197:PHE:O	1:b:200:GLU:HG3	2.07	0.53
1:d:140:GLU:HA	1:d:143:MET:HE2	1.89	0.53
1:e:86:PHE:CD1	1:e:285:ILE:HA	2.43	0.53
1:j:195:TYR:OH	1:k:238:GLU:HA	2.07	0.53
1:k:275:LEU:O	1:k:279:VAL:HG23	2.08	0.53
1:l:86:PHE:CD1	1:l:285:ILE:HA	2.43	0.53
1:l:140:GLU:HA	1:l:143:MET:HE2	1.89	0.53
1:n:197:PHE:O	1:n:200:GLU:HG3	2.07	0.53
1:o:275:LEU:O	1:o:279:VAL:HG23	2.08	0.53
1:p:33:PRO:HB3	1:p:46:TYR:CE2	2.43	0.53
1:p:140:GLU:HA	1:p:143:MET:HE2	1.89	0.53
1:q:140:GLU:HA	1:q:143:MET:HE2	1.89	0.53
1:r:283:GLN:HA	1:r:286:LYS:HE2	1.89	0.53
1:s:275:LEU:O	1:s:279:VAL:HG23	2.08	0.53
1:u:275:LEU:O	1:u:279:VAL:HG23	2.08	0.53
1:z:275:LEU:O	1:z:279:VAL:HG23	2.08	0.53
1:7:86:PHE:CD1	1:7:285:ILE:HA	2.43	0.53
1:9:86:PHE:CD1	1:9:285:ILE:HA	2.43	0.53
1:A:197:PHE:O	1:A:200:GLU:HG3	2.07	0.53
1:AB:73:TRP:O	1:AB:77:ARG:HG2	2.09	0.53
1:AD:33:PRO:HB3	1:AD:46:TYR:CE2	2.43	0.53
1:AM:316:LEU:HD21	1:AM:323:LYS:HB2	1.90	0.53
1:AP:33:PRO:HB3	1:AP:46:TYR:CE2	2.43	0.53
1:D:140:GLU:HA	1:D:143:MET:HE2	1.89	0.53
1:E:275:LEU:O	1:E:279:VAL:HG23	2.08	0.53
1:H:316:LEU:HD21	1:H:323:LYS:HB2	1.91	0.53
1:L:62:LYS:HG2	1:L:137:GLN:HA	1.90	0.53
1:M:223:SER:HB2	1:N:213:LEU:HD23	1.89	0.53
1:N:283:GLN:HA	1:N:286:LYS:HE2	1.89	0.53
1:Q:86:PHE:CD1	1:Q:285:ILE:HA	2.43	0.53
1:W:86:PHE:CD1	1:W:285:ILE:HA	2.43	0.53
1:m:316:LEU:HD21	1:m:323:LYS:HB2	1.91	0.53
1:r:62:LYS:HG2	1:r:137:GLN:HA	1.90	0.53
1:t:275:LEU:O	1:t:279:VAL:HG23	2.08	0.53
1:6:197:PHE:O	1:6:200:GLU:HG3	2.07	0.53
1:6:275:LEU:O	1:6:279:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:33:PRO:HB3	1:9:46:TYR:CE2	2.43	0.53
1:A:275:LEU:O	1:A:279:VAL:HG23	2.08	0.53
1:AE:209:HIS:CD2	1:AF:226:ASP:HB3	2.43	0.53
1:AK:316:LEU:HD21	1:AK:323:LYS:HB2	1.90	0.53
1:AL:86:PHE:CD1	1:AL:285:ILE:HA	2.43	0.53
1:AR:275:LEU:O	1:AR:279:VAL:HG23	2.08	0.53
1:B:275:LEU:O	1:B:279:VAL:HG23	2.08	0.53
1:B:316:LEU:HD21	1:B:323:LYS:HB2	1.91	0.53
1:C:316:LEU:HD21	1:C:323:LYS:HB2	1.91	0.53
1:F:47:ARG:HH11	1:K:258:ILE:HD11	1.73	0.53
1:K:209:HIS:CD2	1:L:226:ASP:HB3	2.43	0.53
1:L:33:PRO:HB3	1:L:46:TYR:CE2	2.43	0.53
1:P:197:PHE:O	1:P:200:GLU:HG3	2.07	0.53
1:Q:33:PRO:HB3	1:Q:46:TYR:CE2	2.43	0.53
1:S:275:LEU:O	1:S:279:VAL:HG23	2.08	0.53
1:S:316:LEU:HD21	1:S:323:LYS:HB2	1.91	0.53
1:T:86:PHE:CD1	1:T:285:ILE:HA	2.43	0.53
1:W:275:LEU:O	1:W:279:VAL:HG23	2.08	0.53
1:W:316:LEU:HD21	1:W:323:LYS:HB2	1.91	0.53
1:a:73:TRP:O	1:a:77:ARG:HG2	2.09	0.53
1:a:197:PHE:O	1:a:200:GLU:HG3	2.07	0.53
1:e:33:PRO:HB3	1:e:46:TYR:CE2	2.43	0.53
1:g:197:PHE:O	1:g:200:GLU:HG3	2.07	0.53
1:i:275:LEU:O	1:i:279:VAL:HG23	2.08	0.53
1:j:62:LYS:HG2	1:j:137:GLN:HA	1.90	0.53
1:m:33:PRO:HB3	1:m:46:TYR:CE2	2.43	0.53
1:r:33:PRO:HB3	1:r:46:TYR:CE2	2.43	0.53
1:r:86:PHE:CD1	1:r:285:ILE:HA	2.43	0.53
1:s:140:GLU:HA	1:s:143:MET:HE2	1.89	0.53
1:v:33:PRO:HB3	1:v:46:TYR:CE2	2.43	0.53
1:v:275:LEU:O	1:v:279:VAL:HG23	2.08	0.53
1:w:33:PRO:HB3	1:w:46:TYR:CE2	2.43	0.53
1:0:73:TRP:O	1:0:77:ARG:HG2	2.09	0.53
1:0:140:GLU:HA	1:0:143:MET:HE2	1.89	0.53
1:0:275:LEU:O	1:0:279:VAL:HG23	2.08	0.53
1:2:197:PHE:O	1:2:200:GLU:HG3	2.07	0.53
1:4:62:LYS:HG2	1:4:137:GLN:HA	1.90	0.53
1:5:123:HIS:CD2	1:5:125:GLU:HB2	2.44	0.53
1:7:123:HIS:CD2	1:7:125:GLU:HB2	2.44	0.53
1:9:275:LEU:O	1:9:279:VAL:HG23	2.08	0.53
1:A:33:PRO:HB3	1:A:46:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:275:LEU:O	1:AD:279:VAL:HG23	2.08	0.53
1:AE:33:PRO:HB3	1:AE:46:TYR:CE2	2.43	0.53
1:AF:33:PRO:HB3	1:AF:46:TYR:CE2	2.43	0.53
1:AG:275:LEU:O	1:AG:279:VAL:HG23	2.08	0.53
1:AL:73:TRP:O	1:AL:77:ARG:HG2	2.09	0.53
1:AN:73:TRP:O	1:AN:77:ARG:HG2	2.09	0.53
1:AS:275:LEU:O	1:AS:279:VAL:HG23	2.08	0.53
1:B:33:PRO:HB3	1:B:46:TYR:CE2	2.43	0.53
1:C:140:GLU:HA	1:C:143:MET:HE2	1.89	0.53
1:F:33:PRO:HB3	1:F:46:TYR:CE2	2.43	0.53
1:J:73:TRP:O	1:J:77:ARG:HG2	2.09	0.53
1:N:62:LYS:HG2	1:N:137:GLN:HA	1.89	0.53
1:O:365:GLU:HG3	1:P:400:TYR:O	2.09	0.53
1:Q:123:HIS:CD2	1:Q:125:GLU:HB2	2.44	0.53
1:X:197:PHE:O	1:X:200:GLU:HG3	2.07	0.53
1:Z:86:PHE:CD1	1:Z:285:ILE:HA	2.43	0.53
1:a:86:PHE:CD1	1:a:285:ILE:HA	2.43	0.53
1:c:275:LEU:O	1:c:279:VAL:HG23	2.08	0.53
1:l:123:HIS:CD2	1:l:125:GLU:HB2	2.44	0.53
1:q:275:LEU:O	1:q:279:VAL:HG23	2.08	0.53
1:r:209:HIS:CD2	1:s:226:ASP:HB3	2.43	0.53
1:u:33:PRO:HB3	1:u:46:TYR:CE2	2.43	0.53
1:x:123:HIS:CD2	1:x:125:GLU:HB2	2.44	0.53
1:y:33:PRO:HB3	1:y:46:TYR:CE2	2.43	0.53
1:z:86:PHE:CD1	1:z:285:ILE:HA	2.43	0.53
1:1:33:PRO:HB3	1:1:46:TYR:CE2	2.43	0.53
1:3:123:HIS:CD2	1:3:125:GLU:HB2	2.44	0.53
1:4:73:TRP:O	1:4:77:ARG:HG2	2.09	0.53
1:4:195:TYR:OH	1:5:238:GLU:HA	2.09	0.53
1:5:282:VAL:O	1:5:286:LYS:HG3	2.09	0.53
1:7:73:TRP:O	1:7:77:ARG:HG2	2.09	0.53
1:8:123:HIS:CD2	1:8:125:GLU:HB2	2.44	0.53
1:8:197:PHE:O	1:8:200:GLU:HG3	2.07	0.53
1:9:123:HIS:CD2	1:9:125:GLU:HB2	2.44	0.53
1:AA:73:TRP:O	1:AA:77:ARG:HG2	2.09	0.53
1:AE:275:LEU:O	1:AE:279:VAL:HG23	2.08	0.53
1:AH:275:LEU:O	1:AH:279:VAL:HG23	2.08	0.53
1:AM:33:PRO:HB3	1:AM:46:TYR:CE2	2.43	0.53
1:AN:316:LEU:HD21	1:AN:323:LYS:HB2	1.91	0.53
1:AR:73:TRP:O	1:AR:77:ARG:HG2	2.09	0.53
1:AS:33:PRO:HB3	1:AS:46:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:275:LEU:O	1:C:279:VAL:HG23	2.08	0.53
1:C:365:GLU:HG3	1:D:400:TYR:O	2.09	0.53
1:D:33:PRO:HB3	1:D:46:TYR:CE2	2.43	0.53
1:E:123:HIS:CD2	1:E:125:GLU:HB2	2.44	0.53
1:F:73:TRP:O	1:F:77:ARG:HG2	2.09	0.53
1:F:283:GLN:HA	1:F:286:LYS:HE2	1.89	0.53
1:G:86:PHE:CD1	1:G:285:ILE:HA	2.43	0.53
1:J:140:GLU:HA	1:J:143:MET:HE2	1.89	0.53
1:K:123:HIS:CD2	1:K:125:GLU:HB2	2.44	0.53
1:K:275:LEU:O	1:K:279:VAL:HG23	2.08	0.53
1:L:73:TRP:O	1:L:77:ARG:HG2	2.09	0.53
1:O:275:LEU:O	1:O:279:VAL:HG23	2.08	0.53
1:P:86:PHE:CD1	1:P:285:ILE:HA	2.43	0.53
1:P:316:LEU:HD21	1:P:323:LYS:HB2	1.91	0.53
1:Q:316:LEU:HD21	1:Q:323:LYS:HB2	1.91	0.53
1:X:86:PHE:CD1	1:X:285:ILE:HA	2.43	0.53
1:f:86:PHE:CD1	1:f:285:ILE:HA	2.43	0.53
1:j:73:TRP:O	1:j:77:ARG:HG2	2.09	0.53
1:l:33:PRO:HB3	1:l:46:TYR:CE2	2.43	0.53
1:r:123:HIS:CD2	1:r:125:GLU:HB2	2.44	0.53
1:t:33:PRO:HB3	1:t:46:TYR:CE2	2.43	0.53
1:v:123:HIS:CD2	1:v:125:GLU:HB2	2.44	0.53
1:x:197:PHE:O	1:x:200:GLU:HG3	2.07	0.53
1:y:275:LEU:O	1:y:279:VAL:HG23	2.08	0.53
1:0:123:HIS:CD2	1:0:125:GLU:HB2	2.44	0.53
1:1:275:LEU:O	1:1:279:VAL:HG23	2.08	0.53
1:6:33:PRO:HB3	1:6:46:TYR:CE2	2.43	0.53
1:6:123:HIS:CD2	1:6:125:GLU:HB2	2.44	0.53
1:8:33:PRO:HB3	1:8:46:TYR:CE2	2.43	0.53
1:8:202:HIS:CB	1:9:234:LEU:HA	2.36	0.53
1:9:73:TRP:O	1:9:77:ARG:HG2	2.09	0.53
1:A:86:PHE:CD1	1:A:285:ILE:HA	2.43	0.53
1:AA:123:HIS:CD2	1:AA:125:GLU:HB2	2.44	0.53
1:AA:316:LEU:HD21	1:AA:323:LYS:HB2	1.90	0.53
1:AB:86:PHE:CD1	1:AB:285:ILE:HA	2.43	0.53
1:AD:86:PHE:CD1	1:AD:285:ILE:HA	2.43	0.53
1:AE:195:TYR:OH	1:AF:238:GLU:HA	2.09	0.53
1:AF:123:HIS:CD2	1:AF:125:GLU:HB2	2.44	0.53
1:AH:73:TRP:O	1:AH:77:ARG:HG2	2.09	0.53
1:AK:282:VAL:O	1:AK:286:LYS:HG3	2.09	0.53
1:AL:282:VAL:O	1:AL:286:LYS:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:33:PRO:HB3	1:AN:46:TYR:CE2	2.43	0.53
1:AN:275:LEU:O	1:AN:279:VAL:HG23	2.08	0.53
1:AO:73:TRP:O	1:AO:77:ARG:HG2	2.09	0.53
1:AP:123:HIS:CD2	1:AP:125:GLU:HB2	2.44	0.53
1:AQ:282:VAL:O	1:AQ:286:LYS:HG3	2.09	0.53
1:AR:33:PRO:HB3	1:AR:46:TYR:CE2	2.43	0.53
1:AR:86:PHE:CD1	1:AR:285:ILE:HA	2.43	0.53
1:AR:123:HIS:CD2	1:AR:125:GLU:HB2	2.44	0.53
1:AR:316:LEU:HD21	1:AR:323:LYS:HB2	1.90	0.53
1:AS:316:LEU:HD21	1:AS:323:LYS:HB2	1.90	0.53
1:B:86:PHE:CD1	1:B:285:ILE:HA	2.43	0.53
1:C:123:HIS:CD2	1:C:125:GLU:HB2	2.44	0.53
1:G:197:PHE:O	1:G:200:GLU:HG3	2.07	0.53
1:I:140:GLU:HA	1:I:143:MET:HE2	1.89	0.53
1:J:33:PRO:HB3	1:J:46:TYR:CE2	2.43	0.53
1:K:73:TRP:O	1:K:77:ARG:HG2	2.09	0.53
1:L:86:PHE:CD1	1:L:285:ILE:HA	2.43	0.53
1:T:33:PRO:HB3	1:T:46:TYR:CE2	2.43	0.53
1:U:316:LEU:HD21	1:U:323:LYS:HB2	1.90	0.53
1:V:86:PHE:CD1	1:V:285:ILE:HA	2.43	0.53
1:X:123:HIS:CD2	1:X:125:GLU:HB2	2.44	0.53
1:b:123:HIS:CD2	1:b:125:GLU:HB2	2.44	0.53
1:d:123:HIS:CD2	1:d:125:GLU:HB2	2.44	0.53
1:l:227:PHE:HB2	1:m:213:LEU:HD11	1.89	0.53
1:p:123:HIS:CD2	1:p:125:GLU:HB2	2.44	0.53
1:q:316:LEU:HD21	1:q:323:LYS:HB2	1.90	0.53
1:r:140:GLU:HA	1:r:143:MET:HE2	1.89	0.53
1:r:195:TYR:OH	1:s:238:GLU:HA	2.09	0.53
1:r:316:LEU:HD21	1:r:323:LYS:HB2	1.90	0.53
1:t:123:HIS:CD2	1:t:125:GLU:HB2	2.44	0.53
1:u:73:TRP:O	1:u:77:ARG:HG2	2.09	0.53
1:u:123:HIS:CD2	1:u:125:GLU:HB2	2.44	0.53
1:w:73:TRP:O	1:w:77:ARG:HG2	2.09	0.53
1:w:123:HIS:CD2	1:w:125:GLU:HB2	2.44	0.53
1:z:316:LEU:HD21	1:z:323:LYS:HB2	1.91	0.53
1:2:73:TRP:O	1:2:77:ARG:HG2	2.09	0.53
1:3:316:LEU:HD21	1:3:323:LYS:HB2	1.90	0.53
1:A:140:GLU:HA	1:A:143:MET:HE2	1.89	0.53
1:AA:282:VAL:O	1:AA:286:LYS:HG3	2.09	0.53
1:AF:316:LEU:HD21	1:AF:323:LYS:HB2	1.90	0.53
1:AG:86:PHE:CD1	1:AG:285:ILE:HA	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:86:PHE:CD1	1:AH:285:ILE:HA	2.43	0.53
1:AJ:316:LEU:HD21	1:AJ:323:LYS:HB2	1.90	0.53
1:AO:316:LEU:HD21	1:AO:323:LYS:HB2	1.90	0.53
1:AP:316:LEU:HD21	1:AP:323:LYS:HB2	1.90	0.53
1:AS:47:ARG:HH12	1:v:254:GLU:HB3	1.73	0.53
1:B:123:HIS:CD2	1:B:125:GLU:HB2	2.44	0.53
1:D:275:LEU:O	1:D:279:VAL:HG23	2.08	0.53
1:G:282:VAL:O	1:G:286:LYS:HG3	2.09	0.53
1:I:33:PRO:HB3	1:I:46:TYR:CE2	2.43	0.53
1:J:316:LEU:HD21	1:J:323:LYS:HB2	1.90	0.53
1:R:73:TRP:O	1:R:77:ARG:HG2	2.09	0.53
1:V:123:HIS:CD2	1:V:125:GLU:HB2	2.44	0.53
1:b:73:TRP:O	1:b:77:ARG:HG2	2.09	0.53
1:d:282:VAL:O	1:d:286:LYS:HG3	2.09	0.53
1:g:73:TRP:O	1:g:77:ARG:HG2	2.09	0.53
1:h:86:PHE:CD1	1:h:285:ILE:HA	2.43	0.53
1:j:33:PRO:HB3	1:j:46:TYR:CE2	2.43	0.53
1:j:123:HIS:CD2	1:j:125:GLU:HB2	2.44	0.53
1:p:275:LEU:O	1:p:279:VAL:HG23	2.08	0.53
1:w:316:LEU:HD21	1:w:323:LYS:HB2	1.91	0.53
1:x:33:PRO:HB3	1:x:46:TYR:CE2	2.43	0.53
1:x:282:VAL:O	1:x:286:LYS:HG3	2.09	0.53
1:z:33:PRO:HB3	1:z:46:TYR:CE2	2.43	0.53
1:z:123:HIS:CD2	1:z:125:GLU:HB2	2.44	0.53
1:3:33:PRO:HB3	1:3:46:TYR:CE2	2.43	0.53
1:3:282:VAL:O	1:3:286:LYS:HG3	2.09	0.53
1:4:123:HIS:CD2	1:4:125:GLU:HB2	2.44	0.53
1:5:33:PRO:HB3	1:5:46:TYR:CE2	2.43	0.53
1:6:282:VAL:O	1:6:286:LYS:HG3	2.09	0.53
1:7:33:PRO:HB3	1:7:46:TYR:CE2	2.43	0.53
1:8:282:VAL:O	1:8:286:LYS:HG3	2.09	0.53
1:A:123:HIS:CD2	1:A:125:GLU:HB2	2.44	0.53
1:AB:282:VAL:O	1:AB:286:LYS:HG3	2.09	0.53
1:AC:33:PRO:HB3	1:AC:46:TYR:CE2	2.43	0.53
1:AC:275:LEU:O	1:AC:279:VAL:HG23	2.08	0.53
1:AD:73:TRP:O	1:AD:77:ARG:HG2	2.09	0.53
1:AF:73:TRP:O	1:AF:77:ARG:HG2	2.09	0.53
1:AH:33:PRO:HB3	1:AH:46:TYR:CE2	2.43	0.53
1:AI:123:HIS:CD2	1:AI:125:GLU:HB2	2.44	0.53
1:AI:282:VAL:O	1:AI:286:LYS:HG3	2.09	0.53
1:AJ:282:VAL:O	1:AJ:286:LYS:HG3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:73:TRP:O	1:AM:77:ARG:HG2	2.09	0.53
1:AN:123:HIS:CD2	1:AN:125:GLU:HB2	2.44	0.53
1:AO:282:VAL:O	1:AO:286:LYS:HG3	2.09	0.53
1:AS:86:PHE:CD1	1:AS:285:ILE:HA	2.43	0.53
1:AS:282:VAL:O	1:AS:286:LYS:HG3	2.09	0.53
1:G:123:HIS:CD2	1:G:125:GLU:HB2	2.44	0.53
1:G:316:LEU:HD21	1:G:323:LYS:HB2	1.90	0.53
1:I:73:TRP:O	1:I:77:ARG:HG2	2.09	0.53
1:J:86:PHE:CD1	1:J:285:ILE:HA	2.43	0.53
1:O:123:HIS:CD2	1:O:125:GLU:HB2	2.44	0.53
1:S:73:TRP:O	1:S:77:ARG:HG2	2.09	0.53
1:S:123:HIS:CD2	1:S:125:GLU:HB2	2.44	0.53
1:Y:33:PRO:HB3	1:Y:46:TYR:CE2	2.43	0.53
1:Z:123:HIS:CD2	1:Z:125:GLU:HB2	2.44	0.53
1:b:86:PHE:CD1	1:b:285:ILE:HA	2.43	0.53
1:d:316:LEU:HD21	1:d:323:LYS:HB2	1.90	0.53
1:k:282:VAL:O	1:k:286:LYS:HG3	2.09	0.53
1:l:73:TRP:O	1:l:77:ARG:HG2	2.09	0.53
1:l:316:LEU:HD21	1:l:323:LYS:HB2	1.90	0.53
1:m:73:TRP:O	1:m:77:ARG:HG2	2.09	0.53
1:n:275:LEU:O	1:n:279:VAL:HG23	2.08	0.53
1:q:73:TRP:O	1:q:77:ARG:HG2	2.09	0.53
1:r:73:TRP:O	1:r:77:ARG:HG2	2.09	0.53
1:s:73:TRP:O	1:s:77:ARG:HG2	2.09	0.53
1:t:86:PHE:CD1	1:t:285:ILE:HA	2.43	0.53
1:y:73:TRP:O	1:y:77:ARG:HG2	2.09	0.53
1:2:275:LEU:O	1:2:279:VAL:HG23	2.08	0.53
1:2:282:VAL:O	1:2:286:LYS:HG3	2.09	0.53
1:6:73:TRP:O	1:6:77:ARG:HG2	2.09	0.53
1:AB:123:HIS:CD2	1:AB:125:GLU:HB2	2.44	0.53
1:AB:275:LEU:O	1:AB:279:VAL:HG23	2.08	0.53
1:AC:73:TRP:O	1:AC:77:ARG:HG2	2.09	0.53
1:AD:123:HIS:CD2	1:AD:125:GLU:HB2	2.44	0.53
1:AG:33:PRO:HB3	1:AG:46:TYR:CE2	2.43	0.53
1:AG:73:TRP:O	1:AG:77:ARG:HG2	2.09	0.53
1:AJ:73:TRP:O	1:AJ:77:ARG:HG2	2.09	0.53
1:AM:123:HIS:CD2	1:AM:125:GLU:HB2	2.44	0.53
1:AM:140:GLU:HA	1:AM:143:MET:HE2	1.89	0.53
1:AN:86:PHE:CD1	1:AN:285:ILE:HA	2.43	0.53
1:D:123:HIS:CD2	1:D:125:GLU:HB2	2.44	0.53
1:E:33:PRO:HB3	1:E:46:TYR:CE2	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:33:PRO:HB3	1:H:46:TYR:CE2	2.44	0.53
1:H:73:TRP:O	1:H:77:ARG:HG2	2.09	0.53
1:H:123:HIS:CD2	1:H:125:GLU:HB2	2.44	0.53
1:I:123:HIS:CD2	1:I:125:GLU:HB2	2.44	0.53
1:J:123:HIS:CD2	1:J:125:GLU:HB2	2.44	0.53
1:J:275:LEU:O	1:J:279:VAL:HG23	2.08	0.53
1:M:123:HIS:CD2	1:M:125:GLU:HB2	2.44	0.53
1:N:282:VAL:O	1:N:286:LYS:HG3	2.09	0.53
1:N:316:LEU:HD21	1:N:323:LYS:HB2	1.91	0.53
1:O:202:HIS:CB	1:P:234:LEU:HA	2.36	0.53
1:R:33:PRO:HB3	1:R:46:TYR:CE2	2.43	0.53
1:R:282:VAL:O	1:R:286:LYS:HG3	2.09	0.53
1:S:33:PRO:HB3	1:S:46:TYR:CE2	2.43	0.53
1:S:86:PHE:CD1	1:S:285:ILE:HA	2.43	0.53
1:Y:275:LEU:O	1:Y:279:VAL:HG23	2.08	0.53
1:b:33:PRO:HB3	1:b:46:TYR:CE2	2.43	0.53
1:d:86:PHE:CD1	1:d:285:ILE:HA	2.43	0.53
1:e:282:VAL:O	1:e:286:LYS:HG3	2.09	0.53
1:g:33:PRO:HB3	1:g:46:TYR:CE2	2.43	0.53
1:j:316:LEU:HD21	1:j:323:LYS:HB2	1.91	0.53
1:j:365:GLU:HG3	1:k:400:TYR:O	2.09	0.53
1:n:33:PRO:HB3	1:n:46:TYR:CE2	2.43	0.53
1:n:282:VAL:O	1:n:286:LYS:HG3	2.09	0.53
1:o:123:HIS:CD2	1:o:125:GLU:HB2	2.44	0.53
1:o:316:LEU:HD21	1:o:323:LYS:HB2	1.90	0.53
1:p:73:TRP:O	1:p:77:ARG:HG2	2.09	0.53
1:s:33:PRO:HB3	1:s:46:TYR:CE2	2.43	0.53
1:v:316:LEU:HD21	1:v:323:LYS:HB2	1.90	0.53
1:w:282:VAL:O	1:w:286:LYS:HG3	2.09	0.53
1:y:123:HIS:CD2	1:y:125:GLU:HB2	2.44	0.53
1:0:282:VAL:O	1:0:286:LYS:HG3	2.09	0.53
1:2:316:LEU:HD21	1:2:323:LYS:HB2	1.91	0.53
1:4:316:LEU:HD21	1:4:323:LYS:HB2	1.90	0.53
1:5:73:TRP:O	1:5:77:ARG:HG2	2.09	0.53
1:AH:123:HIS:CD2	1:AH:125:GLU:HB2	2.44	0.53
1:AK:123:HIS:CD2	1:AK:125:GLU:HB2	2.44	0.53
1:AL:275:LEU:O	1:AL:279:VAL:HG23	2.08	0.53
1:AN:282:VAL:O	1:AN:286:LYS:HG3	2.09	0.53
1:AO:33:PRO:HB3	1:AO:46:TYR:CE2	2.43	0.53
1:AQ:86:PHE:CD1	1:AQ:285:ILE:HA	2.43	0.53
1:AS:73:TRP:O	1:AS:77:ARG:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:33:PRO:HB3	1:C:46:TYR:CE2	2.43	0.53
1:G:33:PRO:HB3	1:G:46:TYR:CE2	2.43	0.53
1:T:275:LEU:O	1:T:279:VAL:HG23	2.08	0.53
1:V:282:VAL:O	1:V:286:LYS:HG3	2.09	0.53
1:X:73:TRP:O	1:X:77:ARG:HG2	2.09	0.53
1:Z:73:TRP:O	1:Z:77:ARG:HG2	2.09	0.53
1:a:316:LEU:HD21	1:a:323:LYS:HB2	1.90	0.53
1:f:73:TRP:O	1:f:77:ARG:HG2	2.09	0.53
1:h:73:TRP:O	1:h:77:ARG:HG2	2.09	0.53
1:i:33:PRO:HB3	1:i:46:TYR:CE2	2.43	0.53
1:i:73:TRP:O	1:i:77:ARG:HG2	2.09	0.53
1:l:282:VAL:O	1:l:286:LYS:HG3	2.09	0.53
1:n:86:PHE:CD1	1:n:285:ILE:HA	2.43	0.53
1:p:282:VAL:O	1:p:286:LYS:HG3	2.09	0.53
1:r:275:LEU:O	1:r:279:VAL:HG23	2.08	0.53
1:v:73:TRP:O	1:v:77:ARG:HG2	2.09	0.53
1:w:86:PHE:CD1	1:w:285:ILE:HA	2.43	0.53
1:x:316:LEU:HD21	1:x:323:LYS:HB2	1.90	0.53
1:1:73:TRP:O	1:1:77:ARG:HG2	2.09	0.52
1:1:316:LEU:HD21	1:1:323:LYS:HB2	1.90	0.52
1:2:33:PRO:HB3	1:2:46:TYR:CE2	2.43	0.52
1:2:123:HIS:CD2	1:2:125:GLU:HB2	2.44	0.52
1:3:73:TRP:O	1:3:77:ARG:HG2	2.09	0.52
1:7:275:LEU:O	1:7:279:VAL:HG23	2.08	0.52
1:A:316:LEU:HG	1:A:321:SER:HB2	1.92	0.52
1:AA:33:PRO:HB3	1:AA:46:TYR:CE2	2.43	0.52
1:AE:73:TRP:O	1:AE:77:ARG:HG2	2.09	0.52
1:AE:123:HIS:CD2	1:AE:125:GLU:HB2	2.44	0.52
1:AG:282:VAL:O	1:AG:286:LYS:HG3	2.09	0.52
1:AK:73:TRP:O	1:AK:77:ARG:HG2	2.09	0.52
1:AL:316:LEU:HD21	1:AL:323:LYS:HB2	1.91	0.52
1:AO:123:HIS:CD2	1:AO:125:GLU:HB2	2.44	0.52
1:AQ:123:HIS:CD2	1:AQ:125:GLU:HB2	2.44	0.52
1:AS:123:HIS:CD2	1:AS:125:GLU:HB2	2.44	0.52
1:B:140:GLU:HA	1:B:143:MET:HE2	1.89	0.52
1:B:316:LEU:HG	1:B:321:SER:HB2	1.92	0.52
1:C:86:PHE:CD1	1:C:285:ILE:HA	2.43	0.52
1:E:282:VAL:O	1:E:286:LYS:HG3	2.09	0.52
1:I:316:LEU:HG	1:I:321:SER:HB2	1.91	0.52
1:L:123:HIS:CD2	1:L:125:GLU:HB2	2.44	0.52
1:L:275:LEU:O	1:L:279:VAL:HG23	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:372:HIS:CE1	1:Y:393:LEU:HD22	2.44	0.52
1:Y:316:LEU:HD21	1:Y:323:LYS:HB2	1.91	0.52
1:Z:275:LEU:O	1:Z:279:VAL:HG23	2.08	0.52
1:d:73:TRP:O	1:d:77:ARG:HG2	2.09	0.52
1:d:275:LEU:O	1:d:279:VAL:HG23	2.08	0.52
1:f:123:HIS:CD2	1:f:125:GLU:HB2	2.44	0.52
1:j:86:PHE:CD1	1:j:285:ILE:HA	2.43	0.52
1:l:275:LEU:O	1:l:279:VAL:HG23	2.08	0.52
1:n:73:TRP:O	1:n:77:ARG:HG2	2.09	0.52
1:o:33:PRO:HB3	1:o:46:TYR:CE2	2.43	0.52
1:q:33:PRO:HB3	1:q:46:TYR:CE2	2.43	0.52
1:s:123:HIS:CD2	1:s:125:GLU:HB2	2.44	0.52
1:t:316:LEU:HD21	1:t:323:LYS:HB2	1.90	0.52
1:u:86:PHE:CD1	1:u:285:ILE:HA	2.43	0.52
1:4:33:PRO:HB3	1:4:46:TYR:CE2	2.43	0.52
1:7:316:LEU:HG	1:7:321:SER:HB2	1.92	0.52
1:8:365:GLU:HG3	1:9:400:TYR:O	2.09	0.52
1:9:316:LEU:HG	1:9:321:SER:HB2	1.92	0.52
1:AJ:33:PRO:HB3	1:AJ:46:TYR:CE2	2.43	0.52
1:AK:33:PRO:HB3	1:AK:46:TYR:CE2	2.43	0.52
1:AL:33:PRO:HB3	1:AL:46:TYR:CE2	2.43	0.52
1:C:73:TRP:O	1:C:77:ARG:HG2	2.09	0.52
1:C:316:LEU:HG	1:C:321:SER:HB2	1.92	0.52
1:E:73:TRP:O	1:E:77:ARG:HG2	2.09	0.52
1:F:86:PHE:CD1	1:F:285:ILE:HA	2.43	0.52
1:G:275:LEU:O	1:G:279:VAL:HG23	2.08	0.52
1:J:316:LEU:HG	1:J:321:SER:HB2	1.92	0.52
1:K:33:PRO:HB3	1:K:46:TYR:CE2	2.43	0.52
1:K:316:LEU:HG	1:K:321:SER:HB2	1.92	0.52
1:L:316:LEU:HG	1:L:321:SER:HB2	1.92	0.52
1:R:86:PHE:CD1	1:R:285:ILE:HA	2.43	0.52
1:T:282:VAL:O	1:T:286:LYS:HG3	2.09	0.52
1:T:316:LEU:HD21	1:T:323:LYS:HB2	1.90	0.52
1:U:33:PRO:HB3	1:U:46:TYR:CE2	2.43	0.52
1:Z:316:LEU:HG	1:Z:321:SER:HB2	1.92	0.52
1:c:33:PRO:HB3	1:c:46:TYR:CE2	2.43	0.52
1:c:282:VAL:O	1:c:286:LYS:HG3	2.09	0.52
1:d:33:PRO:HB3	1:d:46:TYR:CE2	2.43	0.52
1:e:73:TRP:O	1:e:77:ARG:HG2	2.09	0.52
1:e:316:LEU:HG	1:e:321:SER:HB2	1.91	0.52
1:h:123:HIS:CD2	1:h:125:GLU:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:275:LEU:O	1:h:279:VAL:HG23	2.08	0.52
1:k:73:TRP:O	1:k:77:ARG:HG2	2.09	0.52
1:k:316:LEU:HD21	1:k:323:LYS:HB2	1.91	0.52
1:m:282:VAL:O	1:m:286:LYS:HG3	2.09	0.52
1:v:86:PHE:CD1	1:v:285:ILE:HA	2.43	0.52
1:1:123:HIS:CD2	1:1:125:GLU:HB2	2.44	0.52
1:1:316:LEU:HG	1:1:321:SER:HB2	1.92	0.52
1:2:86:PHE:CD1	1:2:285:ILE:HA	2.43	0.52
1:4:275:LEU:O	1:4:279:VAL:HG23	2.08	0.52
1:8:316:LEU:HD21	1:8:323:LYS:HB2	1.90	0.52
1:AB:33:PRO:HB3	1:AB:46:TYR:CE2	2.43	0.52
1:AB:316:LEU:HG	1:AB:321:SER:HB2	1.92	0.52
1:AF:86:PHE:CD1	1:AF:285:ILE:HA	2.43	0.52
1:AJ:275:LEU:O	1:AJ:279:VAL:HG23	2.08	0.52
1:AL:123:HIS:CD2	1:AL:125:GLU:HB2	2.44	0.52
1:AL:316:LEU:HG	1:AL:321:SER:HB2	1.92	0.52
1:AQ:73:TRP:O	1:AQ:77:ARG:HG2	2.09	0.52
1:C:282:VAL:O	1:C:286:LYS:HG3	2.09	0.52
1:D:316:LEU:HG	1:D:321:SER:HB2	1.92	0.52
1:G:316:LEU:HG	1:G:321:SER:HB2	1.92	0.52
1:M:209:HIS:CE1	1:N:229:LYS:HZ1	2.28	0.52
1:M:282:VAL:O	1:M:286:LYS:HG3	2.09	0.52
1:N:73:TRP:O	1:N:77:ARG:HG2	2.09	0.52
1:O:73:TRP:O	1:O:77:ARG:HG2	2.09	0.52
1:P:123:HIS:CD2	1:P:125:GLU:HB2	2.44	0.52
1:U:73:TRP:O	1:U:77:ARG:HG2	2.09	0.52
1:U:282:VAL:O	1:U:286:LYS:HG3	2.09	0.52
1:V:316:LEU:HD21	1:V:323:LYS:HB2	1.90	0.52
1:W:33:PRO:HB3	1:W:46:TYR:CE2	2.43	0.52
1:W:123:HIS:CD2	1:W:125:GLU:HB2	2.44	0.52
1:X:33:PRO:HB3	1:X:46:TYR:CE2	2.43	0.52
1:a:123:HIS:CD2	1:a:125:GLU:HB2	2.44	0.52
1:c:73:TRP:O	1:c:77:ARG:HG2	2.09	0.52
1:h:33:PRO:HB3	1:h:46:TYR:CE2	2.43	0.52
1:h:282:VAL:O	1:h:286:LYS:HG3	2.09	0.52
1:i:316:LEU:HD21	1:i:323:LYS:HB2	1.91	0.52
1:j:275:LEU:O	1:j:279:VAL:HG23	2.08	0.52
1:n:123:HIS:CD2	1:n:125:GLU:HB2	2.44	0.52
1:n:316:LEU:HD21	1:n:323:LYS:HB2	1.90	0.52
1:o:282:VAL:O	1:o:286:LYS:HG3	2.09	0.52
1:u:316:LEU:HD21	1:u:323:LYS:HB2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:365:GLU:HG3	1:w:400:TYR:O	2.09	0.52
1:y:316:LEU:HG	1:y:321:SER:HB2	1.92	0.52
1:z:73:TRP:O	1:z:77:ARG:HG2	2.09	0.52
1:0:33:PRO:HB3	1:0:46:TYR:CE2	2.43	0.52
1:8:73:TRP:O	1:8:77:ARG:HG2	2.09	0.52
1:AJ:316:LEU:HG	1:AJ:321:SER:HB2	1.92	0.52
1:AM:282:VAL:O	1:AM:286:LYS:HG3	2.09	0.52
1:AQ:275:LEU:O	1:AQ:279:VAL:HG23	2.08	0.52
1:B:282:VAL:O	1:B:286:LYS:HG3	2.09	0.52
1:D:282:VAL:O	1:D:286:LYS:HG3	2.09	0.52
1:F:282:VAL:O	1:F:286:LYS:HG3	2.09	0.52
1:J:282:VAL:O	1:J:286:LYS:HG3	2.09	0.52
1:K:195:TYR:OH	1:L:238:GLU:HA	2.09	0.52
1:N:33:PRO:HB3	1:N:46:TYR:CE2	2.43	0.52
1:O:33:PRO:HB3	1:O:46:TYR:CE2	2.43	0.52
1:R:275:LEU:O	1:R:279:VAL:HG23	2.08	0.52
1:T:73:TRP:O	1:T:77:ARG:HG2	2.09	0.52
1:U:123:HIS:CD2	1:U:125:GLU:HB2	2.44	0.52
1:V:316:LEU:HG	1:V:321:SER:HB2	1.92	0.52
1:Z:316:LEU:HD21	1:Z:323:LYS:HB2	1.90	0.52
1:c:316:LEU:HD21	1:c:323:LYS:HB2	1.90	0.52
1:e:123:HIS:CD2	1:e:125:GLU:HB2	2.44	0.52
1:e:275:LEU:O	1:e:279:VAL:HG23	2.09	0.52
1:f:316:LEU:HG	1:f:321:SER:HB2	1.92	0.52
1:j:202:HIS:CB	1:k:234:LEU:HA	2.36	0.52
1:j:282:VAL:O	1:j:286:LYS:HG3	2.09	0.52
1:m:275:LEU:O	1:m:279:VAL:HG23	2.09	0.52
1:r:282:VAL:O	1:r:286:LYS:HG3	2.09	0.52
1:s:282:VAL:O	1:s:286:LYS:HG3	2.09	0.52
1:s:316:LEU:HD21	1:s:323:LYS:HB2	1.90	0.52
1:t:73:TRP:O	1:t:77:ARG:HG2	2.09	0.52
1:y:316:LEU:HD21	1:y:323:LYS:HB2	1.90	0.52
1:z:282:VAL:O	1:z:286:LYS:HG3	2.09	0.52
1:0:316:LEU:HD21	1:0:323:LYS:HB2	1.90	0.52
1:AF:282:VAL:O	1:AF:286:LYS:HG3	2.09	0.52
1:AS:316:LEU:HG	1:AS:321:SER:HB2	1.91	0.52
1:F:316:LEU:HG	1:F:321:SER:HB2	1.92	0.52
1:H:316:LEU:HG	1:H:321:SER:HB2	1.92	0.52
1:I:282:VAL:O	1:I:286:LYS:HG3	2.09	0.52
1:M:33:PRO:HB3	1:M:46:TYR:CE2	2.43	0.52
1:P:73:TRP:O	1:P:77:ARG:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:275:LEU:O	1:P:279:VAL:HG23	2.08	0.52
1:U:275:LEU:O	1:U:279:VAL:HG23	2.08	0.52
1:W:73:TRP:O	1:W:77:ARG:HG2	2.09	0.52
1:X:316:LEU:HD21	1:X:323:LYS:HB2	1.91	0.52
1:X:316:LEU:HG	1:X:321:SER:HB2	1.92	0.52
1:Y:282:VAL:O	1:Y:286:LYS:HG3	2.09	0.52
1:b:275:LEU:O	1:b:279:VAL:HG23	2.08	0.52
1:f:275:LEU:O	1:f:279:VAL:HG23	2.09	0.52
1:f:282:VAL:O	1:f:286:LYS:HG3	2.09	0.52
1:i:282:VAL:O	1:i:286:LYS:HG3	2.09	0.52
1:k:33:PRO:HB3	1:k:46:TYR:CE2	2.43	0.52
1:m:316:LEU:HG	1:m:321:SER:HB2	1.92	0.52
1:p:316:LEU:HD21	1:p:323:LYS:HB2	1.90	0.52
1:q:123:HIS:CD2	1:q:125:GLU:HB2	2.44	0.52
1:q:282:VAL:O	1:q:286:LYS:HG3	2.09	0.52
1:u:316:LEU:HG	1:u:321:SER:HB2	1.92	0.52
1:1:282:VAL:O	1:1:286:LYS:HG3	2.09	0.52
1:8:368:GLY:C	1:9:400:TYR:CD2	2.88	0.52
1:9:316:LEU:HD21	1:9:323:LYS:HB2	1.91	0.52
1:AC:282:VAL:O	1:AC:286:LYS:HG3	2.09	0.52
1:AE:316:LEU:HD21	1:AE:323:LYS:HB2	1.90	0.52
1:AH:282:VAL:O	1:AH:286:LYS:HG3	2.09	0.52
1:AJ:123:HIS:CD2	1:AJ:125:GLU:HB2	2.44	0.52
1:AQ:33:PRO:HB3	1:AQ:46:TYR:CE2	2.43	0.52
1:E:316:LEU:HG	1:E:321:SER:HB2	1.92	0.52
1:G:73:TRP:O	1:G:77:ARG:HG2	2.09	0.52
1:M:316:LEU:HG	1:M:321:SER:HB2	1.92	0.52
1:N:123:HIS:CD2	1:N:125:GLU:HB2	2.44	0.52
1:N:316:LEU:HG	1:N:321:SER:HB2	1.92	0.52
1:Q:73:TRP:O	1:Q:77:ARG:HG2	2.09	0.52
1:R:123:HIS:CD2	1:R:125:GLU:HB2	2.44	0.52
1:T:316:LEU:HG	1:T:321:SER:HB2	1.92	0.52
1:U:86:PHE:CD1	1:U:285:ILE:HA	2.43	0.52
1:X:282:VAL:O	1:X:286:LYS:HG3	2.09	0.52
1:Z:33:PRO:HB3	1:Z:46:TYR:CE2	2.43	0.52
1:a:33:PRO:HB3	1:a:46:TYR:CE2	2.43	0.52
1:a:282:VAL:O	1:a:286:LYS:HG3	2.09	0.52
1:c:123:HIS:CD2	1:c:125:GLU:HB2	2.44	0.52
1:d:316:LEU:HG	1:d:321:SER:HB2	1.92	0.52
1:i:123:HIS:CD2	1:i:125:GLU:HB2	2.44	0.52
1:k:123:HIS:CD2	1:k:125:GLU:HB2	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:73:TRP:O	1:o:77:ARG:HG2	2.09	0.52
1:4:282:VAL:O	1:4:286:LYS:HG3	2.09	0.52
1:AB:316:LEU:HD21	1:AB:323:LYS:HB2	1.91	0.52
1:AC:123:HIS:CD2	1:AC:125:GLU:HB2	2.44	0.52
1:AD:316:LEU:HG	1:AD:321:SER:HB2	1.92	0.52
1:AE:393:LEU:HD22	1:AF:372:HIS:NE2	2.25	0.52
1:AF:316:LEU:HG	1:AF:321:SER:HB2	1.92	0.52
1:AG:123:HIS:CD2	1:AG:125:GLU:HB2	2.44	0.52
1:AG:316:LEU:HG	1:AG:321:SER:HB2	1.92	0.52
1:AI:33:PRO:HB3	1:AI:46:TYR:CE2	2.43	0.52
1:AM:316:LEU:HG	1:AM:321:SER:HB2	1.92	0.52
1:C:368:GLY:C	1:D:400:TYR:CD2	2.88	0.52
1:F:123:HIS:CD2	1:F:125:GLU:HB2	2.44	0.52
1:F:275:LEU:O	1:F:279:VAL:HG23	2.08	0.52
1:K:282:VAL:O	1:K:286:LYS:HG3	2.09	0.52
1:K:393:LEU:HD22	1:L:372:HIS:NE2	2.25	0.52
1:N:275:LEU:O	1:N:279:VAL:HG23	2.08	0.52
1:P:33:PRO:HB3	1:P:46:TYR:CE2	2.43	0.52
1:Q:316:LEU:HG	1:Q:321:SER:HB2	1.92	0.52
1:R:316:LEU:HG	1:R:321:SER:HB2	1.92	0.52
1:S:316:LEU:HG	1:S:321:SER:HB2	1.92	0.52
1:b:316:LEU:HD21	1:b:323:LYS:HB2	1.91	0.52
1:f:33:PRO:HB3	1:f:46:TYR:CE2	2.43	0.52
1:m:123:HIS:CD2	1:m:125:GLU:HB2	2.44	0.52
1:AI:73:TRP:O	1:AI:77:ARG:HG2	2.09	0.52
1:O:282:VAL:O	1:O:286:LYS:HG3	2.09	0.52
1:O:316:LEU:HG	1:O:321:SER:HB2	1.92	0.52
1:P:316:LEU:HG	1:P:321:SER:HB2	1.92	0.52
1:Q:282:VAL:O	1:Q:286:LYS:HG3	2.09	0.52
1:V:33:PRO:HB3	1:V:46:TYR:CE2	2.43	0.52
1:V:73:TRP:O	1:V:77:ARG:HG2	2.09	0.52
1:V:275:LEU:O	1:V:279:VAL:HG23	2.08	0.52
1:Y:73:TRP:O	1:Y:77:ARG:HG2	2.09	0.52
1:Y:123:HIS:CD2	1:Y:125:GLU:HB2	2.44	0.52
1:g:282:VAL:O	1:g:286:LYS:HG3	2.09	0.52
1:g:316:LEU:HD21	1:g:323:LYS:HB2	1.90	0.52
1:h:316:LEU:HG	1:h:321:SER:HB2	1.92	0.52
1:l:316:LEU:HG	1:l:321:SER:HB2	1.92	0.52
1:u:282:VAL:O	1:u:286:LYS:HG3	2.09	0.52
1:w:316:LEU:HG	1:w:321:SER:HB2	1.92	0.52
1:x:73:TRP:O	1:x:77:ARG:HG2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:393:LEU:HD22	1:5:372:HIS:NE2	2.25	0.52
1:6:316:LEU:HD21	1:6:323:LYS:HB2	1.90	0.52
1:7:282:VAL:O	1:7:286:LYS:HG3	2.09	0.52
1:A:73:TRP:O	1:A:77:ARG:HG2	2.09	0.52
1:AC:316:LEU:HG	1:AC:321:SER:HB2	1.92	0.52
1:AP:73:TRP:O	1:AP:77:ARG:HG2	2.09	0.52
1:AQ:320:ARG:NH2	1:p:183:GLU:HB3	2.24	0.52
1:D:73:TRP:O	1:D:77:ARG:HG2	2.09	0.52
1:H:282:VAL:O	1:H:286:LYS:HG3	2.09	0.52
1:L:282:VAL:O	1:L:286:LYS:HG3	2.09	0.52
1:M:73:TRP:O	1:M:77:ARG:HG2	2.09	0.52
1:O:368:GLY:C	1:P:400:TYR:CD2	2.88	0.52
1:T:123:HIS:CD2	1:T:125:GLU:HB2	2.44	0.52
1:W:316:LEU:HG	1:W:321:SER:HB2	1.92	0.52
1:Z:282:VAL:O	1:Z:286:LYS:HG3	2.09	0.52
1:b:316:LEU:HG	1:b:321:SER:HB2	1.92	0.52
1:1:372:HIS:NE2	1:z:393:LEU:HD22	2.25	0.52
1:A:282:VAL:O	1:A:286:LYS:HG3	2.09	0.52
1:AD:282:VAL:O	1:AD:286:LYS:HG3	2.09	0.52
1:AH:316:LEU:HG	1:AH:321:SER:HB2	1.92	0.52
1:AI:316:LEU:HG	1:AI:321:SER:HB2	1.92	0.52
1:AQ:316:LEU:HG	1:AQ:321:SER:HB2	1.92	0.52
1:AR:282:VAL:O	1:AR:286:LYS:HG3	2.09	0.52
1:AR:316:LEU:HG	1:AR:321:SER:HB2	1.92	0.52
1:F:258:ILE:HD11	1:K:47:ARG:HH11	1.74	0.52
1:G:393:LEU:HD22	1:H:372:HIS:NE2	2.25	0.52
1:X:275:LEU:O	1:X:279:VAL:HG23	2.08	0.52
1:g:123:HIS:CD2	1:g:125:GLU:HB2	2.44	0.52
1:q:316:LEU:HG	1:q:321:SER:HB2	1.92	0.52
1:3:316:LEU:HG	1:3:321:SER:HB2	1.92	0.51
1:5:316:LEU:HG	1:5:321:SER:HB2	1.91	0.51
1:AC:316:LEU:HD21	1:AC:323:LYS:HB2	1.91	0.51
1:AG:316:LEU:HD21	1:AG:323:LYS:HB2	1.91	0.51
1:AP:282:VAL:O	1:AP:286:LYS:HG3	2.09	0.51
1:AP:316:LEU:HG	1:AP:321:SER:HB2	1.91	0.51
1:P:282:VAL:O	1:P:286:LYS:HG3	2.09	0.51
1:U:316:LEU:HG	1:U:321:SER:HB2	1.92	0.51
1:b:282:VAL:O	1:b:286:LYS:HG3	2.09	0.51
1:f:316:LEU:HD21	1:f:323:LYS:HB2	1.91	0.51
1:t:282:VAL:O	1:t:286:LYS:HG3	2.09	0.51
1:y:282:VAL:O	1:y:286:LYS:HG3	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:316:LEU:HD21	1:AD:323:LYS:HB2	1.91	0.51
1:AE:282:VAL:O	1:AE:286:LYS:HG3	2.09	0.51
1:AK:316:LEU:HG	1:AK:321:SER:HB2	1.92	0.51
1:B:73:TRP:O	1:B:77:ARG:HG2	2.09	0.51
1:S:282:VAL:O	1:S:286:LYS:HG3	2.09	0.51
1:h:316:LEU:HD21	1:h:323:LYS:HB2	1.91	0.51
1:n:316:LEU:HG	1:n:321:SER:HB2	1.92	0.51
1:p:316:LEU:HG	1:p:321:SER:HB2	1.92	0.51
1:p:330:GLU:O	1:p:333:GLU:HG2	2.11	0.51
1:v:368:GLY:C	1:w:400:TYR:CD2	2.88	0.51
1:6:330:GLU:O	1:6:333:GLU:HG2	2.11	0.51
1:7:330:GLU:O	1:7:333:GLU:HG2	2.11	0.51
1:8:330:GLU:O	1:8:333:GLU:HG2	2.11	0.51
1:AA:316:LEU:HG	1:AA:321:SER:HB2	1.92	0.51
1:AC:330:GLU:O	1:AC:333:GLU:HG2	2.11	0.51
1:AE:316:LEU:HG	1:AE:321:SER:HB2	1.92	0.51
1:AH:316:LEU:HD21	1:AH:323:LYS:HB2	1.91	0.51
1:AK:330:GLU:O	1:AK:333:GLU:HG2	2.11	0.51
1:a:330:GLU:O	1:a:333:GLU:HG2	2.11	0.51
1:j:368:GLY:C	1:k:400:TYR:CD2	2.88	0.51
1:x:330:GLU:O	1:x:333:GLU:HG2	2.11	0.51
1:z:316:LEU:HG	1:z:321:SER:HB2	1.92	0.51
1:4:316:LEU:HG	1:4:321:SER:HB2	1.91	0.51
1:AD:330:GLU:O	1:AD:333:GLU:HG2	2.11	0.51
1:AG:330:GLU:O	1:AG:333:GLU:HG2	2.11	0.51
1:AH:330:GLU:O	1:AH:333:GLU:HG2	2.11	0.51
1:J:330:GLU:O	1:J:333:GLU:HG2	2.11	0.51
1:W:282:VAL:O	1:W:286:LYS:HG3	2.09	0.51
1:Y:316:LEU:HG	1:Y:321:SER:HB2	1.92	0.51
1:d:330:GLU:O	1:d:333:GLU:HG2	2.11	0.51
1:g:330:GLU:O	1:g:333:GLU:HG2	2.11	0.51
1:j:316:LEU:HG	1:j:321:SER:HB2	1.92	0.51
1:l:330:GLU:O	1:l:333:GLU:HG2	2.11	0.51
1:n:330:GLU:O	1:n:333:GLU:HG2	2.11	0.51
1:s:330:GLU:O	1:s:333:GLU:HG2	2.11	0.51
1:0:330:GLU:O	1:0:333:GLU:HG2	2.11	0.51
1:2:185:THR:HG22	1:AO:320:ARG:NH1	2.26	0.51
1:4:75:ARG:HH22	1:4:90:LEU:N	2.09	0.51
1:AA:330:GLU:O	1:AA:333:GLU:HG2	2.11	0.51
1:D:75:ARG:HH22	1:D:90:LEU:N	2.09	0.51
1:J:75:ARG:HH22	1:J:90:LEU:N	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:75:ARG:HH22	1:P:90:LEU:N	2.09	0.51
1:Y:75:ARG:HH22	1:Y:90:LEU:N	2.09	0.51
1:f:330:GLU:O	1:f:333:GLU:HG2	2.11	0.51
1:h:330:GLU:O	1:h:333:GLU:HG2	2.11	0.51
1:o:316:LEU:HG	1:o:321:SER:HB2	1.92	0.51
1:q:330:GLU:O	1:q:333:GLU:HG2	2.11	0.51
1:s:316:LEU:HG	1:s:321:SER:HB2	1.92	0.51
1:t:330:GLU:O	1:t:333:GLU:HG2	2.11	0.51
1:v:316:LEU:HG	1:v:321:SER:HB2	1.92	0.51
1:9:282:VAL:O	1:9:286:LYS:HG3	2.09	0.51
1:AE:330:GLU:O	1:AE:333:GLU:HG2	2.11	0.51
1:AI:330:GLU:O	1:AI:333:GLU:HG2	2.11	0.51
1:AO:316:LEU:HG	1:AO:321:SER:HB2	1.92	0.51
1:G:75:ARG:HH22	1:G:90:LEU:N	2.09	0.51
1:G:330:GLU:O	1:G:333:GLU:HG2	2.11	0.51
1:I:75:ARG:HH22	1:I:90:LEU:N	2.09	0.51
1:N:75:ARG:HH22	1:N:90:LEU:N	2.09	0.51
1:V:330:GLU:O	1:V:333:GLU:HG2	2.11	0.51
1:d:75:ARG:HH22	1:d:90:LEU:N	2.09	0.51
1:i:330:GLU:O	1:i:333:GLU:HG2	2.11	0.51
1:l:75:ARG:HH22	1:l:90:LEU:N	2.09	0.51
1:p:75:ARG:HH22	1:p:90:LEU:N	2.09	0.51
1:z:330:GLU:O	1:z:333:GLU:HG2	2.11	0.51
1:1:75:ARG:HH22	1:1:90:LEU:N	2.09	0.51
1:9:330:GLU:O	1:9:333:GLU:HG2	2.11	0.51
1:AB:330:GLU:O	1:AB:333:GLU:HG2	2.11	0.51
1:AN:75:ARG:HH22	1:AN:90:LEU:N	2.09	0.51
1:K:75:ARG:HH22	1:K:90:LEU:N	2.09	0.51
1:L:75:ARG:HH22	1:L:90:LEU:N	2.09	0.51
1:V:75:ARG:HH22	1:V:90:LEU:N	2.09	0.51
1:W:75:ARG:HH22	1:W:90:LEU:N	2.09	0.51
1:W:330:GLU:O	1:W:333:GLU:HG2	2.11	0.51
1:X:330:GLU:O	1:X:333:GLU:HG2	2.11	0.51
1:Y:330:GLU:O	1:Y:333:GLU:HG2	2.11	0.51
1:c:75:ARG:HH22	1:c:90:LEU:N	2.09	0.51
1:j:75:ARG:HH22	1:j:90:LEU:N	2.09	0.51
1:s:75:ARG:HH22	1:s:90:LEU:N	2.09	0.51
1:u:330:GLU:O	1:u:333:GLU:HG2	2.11	0.51
1:v:282:VAL:O	1:v:286:LYS:HG3	2.09	0.51
1:2:316:LEU:HG	1:2:321:SER:HB2	1.92	0.51
1:2:330:GLU:O	1:2:333:GLU:HG2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:316:LEU:HG	1:6:321:SER:HB2	1.92	0.51
1:7:316:LEU:HD21	1:7:323:LYS:HB2	1.90	0.51
1:AA:75:ARG:HH22	1:AA:90:LEU:N	2.09	0.51
1:AJ:75:ARG:HH22	1:AJ:90:LEU:N	2.09	0.51
1:AM:75:ARG:HH22	1:AM:90:LEU:N	2.09	0.51
1:AM:330:GLU:O	1:AM:333:GLU:HG2	2.11	0.51
1:AN:316:LEU:HG	1:AN:321:SER:HB2	1.92	0.51
1:AP:75:ARG:HH22	1:AP:90:LEU:N	2.09	0.51
1:C:75:ARG:HH22	1:C:90:LEU:N	2.09	0.51
1:C:330:GLU:O	1:C:333:GLU:HG2	2.11	0.51
1:F:330:GLU:O	1:F:333:GLU:HG2	2.11	0.51
1:H:330:GLU:O	1:H:333:GLU:HG2	2.11	0.51
1:T:75:ARG:HH22	1:T:90:LEU:N	2.09	0.51
1:X:213:LEU:HD23	1:Y:223:SER:HB2	1.92	0.51
1:X:372:HIS:NE2	1:Y:393:LEU:HD22	2.26	0.51
1:Z:330:GLU:O	1:Z:333:GLU:HG2	2.11	0.51
1:a:316:LEU:HG	1:a:321:SER:HB2	1.92	0.51
1:c:330:GLU:O	1:c:333:GLU:HG2	2.11	0.51
1:e:75:ARG:HH22	1:e:90:LEU:N	2.09	0.51
1:o:330:GLU:O	1:o:333:GLU:HG2	2.11	0.51
1:r:75:ARG:HH22	1:r:90:LEU:N	2.09	0.51
1:r:316:LEU:HG	1:r:321:SER:HB2	1.92	0.51
1:y:330:GLU:O	1:y:333:GLU:HG2	2.11	0.51
1:2:75:ARG:HH22	1:2:90:LEU:N	2.09	0.51
1:AJ:330:GLU:O	1:AJ:333:GLU:HG2	2.11	0.51
1:AL:75:ARG:HH22	1:AL:90:LEU:N	2.09	0.51
1:B:75:ARG:HH22	1:B:90:LEU:N	2.09	0.51
1:E:75:ARG:HH22	1:E:90:LEU:N	2.09	0.51
1:F:75:ARG:HH22	1:F:90:LEU:N	2.09	0.51
1:L:330:GLU:O	1:L:333:GLU:HG2	2.11	0.51
1:S:330:GLU:O	1:S:333:GLU:HG2	2.11	0.51
1:Z:75:ARG:HH22	1:Z:90:LEU:N	2.09	0.51
1:b:75:ARG:HH22	1:b:90:LEU:N	2.09	0.51
1:c:316:LEU:HG	1:c:321:SER:HB2	1.92	0.51
1:i:316:LEU:HG	1:i:321:SER:HB2	1.92	0.51
1:j:330:GLU:O	1:j:333:GLU:HG2	2.11	0.51
1:q:75:ARG:HH22	1:q:90:LEU:N	2.09	0.51
1:r:330:GLU:O	1:r:333:GLU:HG2	2.11	0.51
1:t:316:LEU:HG	1:t:321:SER:HB2	1.92	0.51
1:v:330:GLU:O	1:v:333:GLU:HG2	2.11	0.51
1:y:75:ARG:HH22	1:y:90:LEU:N	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:75:ARG:HH22	1:0:90:LEU:N	2.09	0.51
1:AB:307:LYS:O	1:AB:310:GLU:HG2	2.11	0.51
1:AG:307:LYS:O	1:AG:310:GLU:HG2	2.11	0.51
1:AH:307:LYS:O	1:AH:310:GLU:HG2	2.11	0.51
1:AL:330:GLU:O	1:AL:333:GLU:HG2	2.11	0.51
1:AN:330:GLU:O	1:AN:333:GLU:HG2	2.11	0.51
1:AR:330:GLU:O	1:AR:333:GLU:HG2	2.11	0.51
1:F:307:LYS:O	1:F:310:GLU:HG2	2.11	0.51
1:M:330:GLU:O	1:M:333:GLU:HG2	2.11	0.51
1:N:330:GLU:O	1:N:333:GLU:HG2	2.11	0.51
1:R:307:LYS:O	1:R:310:GLU:HG2	2.11	0.51
1:S:307:LYS:O	1:S:310:GLU:HG2	2.11	0.51
1:U:330:GLU:O	1:U:333:GLU:HG2	2.11	0.51
1:V:307:LYS:O	1:V:310:GLU:HG2	2.12	0.51
1:b:330:GLU:O	1:b:333:GLU:HG2	2.11	0.51
1:m:330:GLU:O	1:m:333:GLU:HG2	2.11	0.51
1:o:75:ARG:HH22	1:o:90:LEU:N	2.09	0.51
1:x:316:LEU:HG	1:x:321:SER:HB2	1.92	0.51
1:1:307:LYS:O	1:1:310:GLU:HG2	2.11	0.50
1:2:307:LYS:O	1:2:310:GLU:HG2	2.11	0.50
1:3:330:GLU:O	1:3:333:GLU:HG2	2.11	0.50
1:9:123:HIS:HA	1:9:358:ARG:HH12	1.77	0.50
1:9:307:LYS:O	1:9:310:GLU:HG2	2.11	0.50
1:A:75:ARG:HH22	1:A:90:LEU:N	2.09	0.50
1:AA:393:LEU:HD22	1:AB:372:HIS:NE2	2.25	0.50
1:AC:75:ARG:HH22	1:AC:90:LEU:N	2.09	0.50
1:AC:307:LYS:O	1:AC:310:GLU:HG2	2.12	0.50
1:AF:330:GLU:O	1:AF:333:GLU:HG2	2.11	0.50
1:AG:75:ARG:HH22	1:AG:90:LEU:N	2.09	0.50
1:B:330:GLU:O	1:B:333:GLU:HG2	2.11	0.50
1:G:307:LYS:O	1:G:310:GLU:HG2	2.11	0.50
1:P:330:GLU:O	1:P:333:GLU:HG2	2.11	0.50
1:X:75:ARG:HH22	1:X:90:LEU:N	2.09	0.50
1:X:307:LYS:O	1:X:310:GLU:HG2	2.11	0.50
1:i:75:ARG:HH22	1:i:90:LEU:N	2.09	0.50
1:k:75:ARG:HH22	1:k:90:LEU:N	2.09	0.50
1:n:393:LEU:HD22	1:o:372:HIS:NE2	2.25	0.50
1:o:307:LYS:O	1:o:310:GLU:HG2	2.11	0.50
1:0:316:LEU:HG	1:0:321:SER:HB2	1.92	0.50
1:1:123:HIS:HA	1:1:358:ARG:HH12	1.77	0.50
1:3:307:LYS:O	1:3:310:GLU:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:75:ARG:HH22	1:6:90:LEU:N	2.09	0.50
1:7:307:LYS:O	1:7:310:GLU:HG2	2.12	0.50
1:AF:192:LEU:O	1:AF:196:ILE:HG12	2.12	0.50
1:AP:330:GLU:O	1:AP:333:GLU:HG2	2.11	0.50
1:AQ:75:ARG:HH22	1:AQ:90:LEU:N	2.09	0.50
1:AR:75:ARG:HH22	1:AR:90:LEU:N	2.09	0.50
1:H:75:ARG:HH22	1:H:90:LEU:N	2.09	0.50
1:N:307:LYS:O	1:N:310:GLU:HG2	2.12	0.50
1:P:307:LYS:O	1:P:310:GLU:HG2	2.11	0.50
1:Q:75:ARG:HH22	1:Q:90:LEU:N	2.09	0.50
1:Q:347:ARG:HA	1:Q:350:LYS:HZ2	1.77	0.50
1:Q:393:LEU:HD22	1:R:372:HIS:NE2	2.25	0.50
1:k:316:LEU:HG	1:k:321:SER:HB2	1.92	0.50
1:k:330:GLU:O	1:k:333:GLU:HG2	2.11	0.50
1:m:75:ARG:HH22	1:m:90:LEU:N	2.09	0.50
1:n:75:ARG:HH22	1:n:90:LEU:N	2.09	0.50
1:u:192:LEU:O	1:u:196:ILE:HG12	2.12	0.50
1:y:123:HIS:HA	1:y:358:ARG:HH12	1.77	0.50
1:y:307:LYS:O	1:y:310:GLU:HG2	2.11	0.50
1:0:192:LEU:O	1:0:196:ILE:HG12	2.12	0.50
1:1:330:GLU:O	1:1:333:GLU:HG2	2.11	0.50
1:3:75:ARG:HH22	1:3:90:LEU:N	2.09	0.50
1:4:123:HIS:HA	1:4:358:ARG:HH12	1.77	0.50
1:4:307:LYS:O	1:4:310:GLU:HG2	2.11	0.50
1:7:192:LEU:O	1:7:196:ILE:HG12	2.12	0.50
1:8:316:LEU:HG	1:8:321:SER:HB2	1.92	0.50
1:A:330:GLU:O	1:A:333:GLU:HG2	2.11	0.50
1:AA:192:LEU:O	1:AA:196:ILE:HG12	2.12	0.50
1:AC:123:HIS:HA	1:AC:358:ARG:HH12	1.77	0.50
1:AD:307:LYS:O	1:AD:310:GLU:HG2	2.11	0.50
1:AG:192:LEU:O	1:AG:196:ILE:HG12	2.12	0.50
1:AI:75:ARG:HH22	1:AI:90:LEU:N	2.09	0.50
1:AK:75:ARG:HH22	1:AK:90:LEU:N	2.09	0.50
1:AQ:307:LYS:O	1:AQ:310:GLU:HG2	2.11	0.50
1:AS:307:LYS:O	1:AS:310:GLU:HG2	2.11	0.50
1:B:307:LYS:O	1:B:310:GLU:HG2	2.11	0.50
1:I:330:GLU:O	1:I:333:GLU:HG2	2.11	0.50
1:S:192:LEU:O	1:S:196:ILE:HG12	2.12	0.50
1:T:307:LYS:O	1:T:310:GLU:HG2	2.11	0.50
1:b:307:LYS:O	1:b:310:GLU:HG2	2.11	0.50
1:d:47:ARG:HH12	1:m:254:GLU:HB3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:307:LYS:O	1:i:310:GLU:HG2	2.11	0.50
1:n:307:LYS:O	1:n:310:GLU:HG2	2.12	0.50
1:r:307:LYS:O	1:r:310:GLU:HG2	2.12	0.50
1:w:192:LEU:O	1:w:196:ILE:HG12	2.12	0.50
1:z:307:LYS:O	1:z:310:GLU:HG2	2.11	0.50
1:2:123:HIS:HA	1:2:358:ARG:HH12	1.77	0.50
1:4:192:LEU:O	1:4:196:ILE:HG12	2.12	0.50
1:4:330:GLU:O	1:4:333:GLU:HG2	2.11	0.50
1:5:330:GLU:O	1:5:333:GLU:HG2	2.11	0.50
1:A:192:LEU:O	1:A:196:ILE:HG12	2.12	0.50
1:AB:75:ARG:HH22	1:AB:90:LEU:N	2.09	0.50
1:AC:192:LEU:O	1:AC:196:ILE:HG12	2.12	0.50
1:AE:75:ARG:HH22	1:AE:90:LEU:N	2.09	0.50
1:AG:123:HIS:HA	1:AG:358:ARG:HH12	1.77	0.50
1:AJ:307:LYS:O	1:AJ:310:GLU:HG2	2.11	0.50
1:AO:75:ARG:HH22	1:AO:90:LEU:N	2.09	0.50
1:AQ:330:GLU:O	1:AQ:333:GLU:HG2	2.11	0.50
1:D:330:GLU:O	1:D:333:GLU:HG2	2.11	0.50
1:E:330:GLU:O	1:E:333:GLU:HG2	2.11	0.50
1:L:307:LYS:O	1:L:310:GLU:HG2	2.11	0.50
1:M:75:ARG:HH22	1:M:90:LEU:N	2.09	0.50
1:O:330:GLU:O	1:O:333:GLU:HG2	2.11	0.50
1:R:75:ARG:HH22	1:R:90:LEU:N	2.09	0.50
1:R:330:GLU:O	1:R:333:GLU:HG2	2.11	0.50
1:T:123:HIS:HA	1:T:358:ARG:HH12	1.77	0.50
1:a:192:LEU:O	1:a:196:ILE:HG12	2.12	0.50
1:e:307:LYS:O	1:e:310:GLU:HG2	2.11	0.50
1:e:330:GLU:O	1:e:333:GLU:HG2	2.11	0.50
1:g:75:ARG:HH22	1:g:90:LEU:N	2.09	0.50
1:g:316:LEU:HG	1:g:321:SER:HB2	1.92	0.50
1:n:123:HIS:HA	1:n:358:ARG:HH12	1.77	0.50
1:p:307:LYS:O	1:p:310:GLU:HG2	2.11	0.50
1:t:123:HIS:HA	1:t:358:ARG:HH12	1.77	0.50
1:u:75:ARG:HH22	1:u:90:LEU:N	2.09	0.50
1:2:192:LEU:O	1:2:196:ILE:HG12	2.12	0.50
1:7:75:ARG:HH22	1:7:90:LEU:N	2.09	0.50
1:8:75:ARG:HH22	1:8:90:LEU:N	2.09	0.50
1:AB:123:HIS:HA	1:AB:358:ARG:HH12	1.77	0.50
1:AC:296:PHE:HA	1:AC:299:HIS:HD1	1.77	0.50
1:AE:123:HIS:HA	1:AE:358:ARG:HH12	1.77	0.50
1:AE:307:LYS:O	1:AE:310:GLU:HG2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:75:ARG:HH22	1:AF:90:LEU:N	2.09	0.50
1:AG:296:PHE:HA	1:AG:299:HIS:HD1	1.77	0.50
1:AK:192:LEU:O	1:AK:196:ILE:HG12	2.12	0.50
1:AO:330:GLU:O	1:AO:333:GLU:HG2	2.11	0.50
1:AQ:347:ARG:HA	1:AQ:350:LYS:HZ2	1.77	0.50
1:AS:123:HIS:HA	1:AS:358:ARG:HH12	1.77	0.50
1:AS:192:LEU:O	1:AS:196:ILE:HG12	2.12	0.50
1:B:192:LEU:O	1:B:196:ILE:HG12	2.12	0.50
1:D:307:LYS:O	1:D:310:GLU:HG2	2.11	0.50
1:L:296:PHE:HA	1:L:299:HIS:HD1	1.77	0.50
1:Q:330:GLU:O	1:Q:333:GLU:HG2	2.11	0.50
1:S:75:ARG:HH22	1:S:90:LEU:N	2.09	0.50
1:T:330:GLU:O	1:T:333:GLU:HG2	2.11	0.50
1:U:75:ARG:HH22	1:U:90:LEU:N	2.09	0.50
1:U:192:LEU:O	1:U:196:ILE:HG12	2.12	0.50
1:g:307:LYS:O	1:g:310:GLU:HG2	2.12	0.50
1:h:75:ARG:HH22	1:h:90:LEU:N	2.09	0.50
1:h:307:LYS:O	1:h:310:GLU:HG2	2.12	0.50
1:k:192:LEU:O	1:k:196:ILE:HG12	2.12	0.50
1:w:123:HIS:HA	1:w:358:ARG:HH12	1.77	0.50
1:z:192:LEU:O	1:z:196:ILE:HG12	2.12	0.50
1:2:311:ILE:HD12	1:AO:307:LYS:CB	2.41	0.50
1:5:192:LEU:O	1:5:196:ILE:HG12	2.12	0.50
1:7:123:HIS:HA	1:7:358:ARG:HH12	1.77	0.50
1:A:296:PHE:HA	1:A:299:HIS:HD1	1.77	0.50
1:AL:307:LYS:O	1:AL:310:GLU:HG2	2.11	0.50
1:AO:307:LYS:O	1:AO:310:GLU:HG2	2.11	0.50
1:AR:307:LYS:O	1:AR:310:GLU:HG2	2.11	0.50
1:AS:330:GLU:O	1:AS:333:GLU:HG2	2.11	0.50
1:a:75:ARG:HH22	1:a:90:LEU:N	2.09	0.50
1:b:347:ARG:HA	1:b:350:LYS:HZ2	1.77	0.50
1:e:296:PHE:HA	1:e:299:HIS:HD1	1.77	0.50
1:f:75:ARG:HH22	1:f:90:LEU:N	2.09	0.50
1:m:296:PHE:HA	1:m:299:HIS:HD1	1.77	0.50
1:r:192:LEU:O	1:r:196:ILE:HG12	2.12	0.50
1:r:393:LEU:HD22	1:s:372:HIS:NE2	2.25	0.50
1:t:307:LYS:O	1:t:310:GLU:HG2	2.11	0.50
1:0:296:PHE:HA	1:0:299:HIS:HD1	1.77	0.50
1:9:296:PHE:HA	1:9:299:HIS:HD1	1.77	0.50
1:AD:75:ARG:HH22	1:AD:90:LEU:N	2.09	0.50
1:AD:192:LEU:O	1:AD:196:ILE:HG12	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:192:LEU:O	1:AI:196:ILE:HG12	2.12	0.50
1:AK:307:LYS:O	1:AK:310:GLU:HG2	2.11	0.50
1:AM:296:PHE:HA	1:AM:299:HIS:HD1	1.77	0.50
1:AO:192:LEU:O	1:AO:196:ILE:HG12	2.12	0.50
1:C:192:LEU:O	1:C:196:ILE:HG12	2.12	0.50
1:C:296:PHE:HA	1:C:299:HIS:HD1	1.77	0.50
1:F:296:PHE:HA	1:F:299:HIS:HD1	1.77	0.50
1:G:192:LEU:O	1:G:196:ILE:HG12	2.12	0.50
1:I:296:PHE:HA	1:I:299:HIS:HD1	1.77	0.50
1:I:307:LYS:O	1:I:310:GLU:HG2	2.11	0.50
1:J:307:LYS:O	1:J:310:GLU:HG2	2.11	0.50
1:N:192:LEU:O	1:N:196:ILE:HG12	2.12	0.50
1:R:296:PHE:HA	1:R:299:HIS:HD1	1.77	0.50
1:U:307:LYS:O	1:U:310:GLU:HG2	2.12	0.50
1:Y:192:LEU:O	1:Y:196:ILE:HG12	2.12	0.50
1:c:192:LEU:O	1:c:196:ILE:HG12	2.12	0.50
1:f:307:LYS:O	1:f:310:GLU:HG2	2.11	0.50
1:g:296:PHE:HA	1:g:299:HIS:HD1	1.77	0.50
1:i:296:PHE:HA	1:i:299:HIS:HD1	1.77	0.50
1:l:307:LYS:O	1:l:310:GLU:HG2	2.11	0.50
1:n:192:LEU:O	1:n:196:ILE:HG12	2.12	0.50
1:o:296:PHE:HA	1:o:299:HIS:HD1	1.77	0.50
1:t:75:ARG:HH22	1:t:90:LEU:N	2.09	0.50
1:v:75:ARG:HH22	1:v:90:LEU:N	2.09	0.50
1:v:123:HIS:HA	1:v:358:ARG:HH12	1.77	0.50
1:v:307:LYS:O	1:v:310:GLU:HG2	2.11	0.50
1:w:75:ARG:HH22	1:w:90:LEU:N	2.09	0.50
1:3:347:ARG:HA	1:3:350:LYS:HZ2	1.77	0.50
1:4:296:PHE:HA	1:4:299:HIS:HD1	1.77	0.50
1:5:296:PHE:HA	1:5:299:HIS:HD1	1.77	0.50
1:9:75:ARG:HH22	1:9:90:LEU:N	2.09	0.50
1:9:192:LEU:O	1:9:196:ILE:HG12	2.12	0.50
1:AA:307:LYS:O	1:AA:310:GLU:HG2	2.11	0.50
1:AF:123:HIS:HA	1:AF:358:ARG:HH12	1.77	0.50
1:AI:307:LYS:O	1:AI:310:GLU:HG2	2.11	0.50
1:AJ:192:LEU:O	1:AJ:196:ILE:HG12	2.12	0.50
1:AL:123:HIS:HA	1:AL:358:ARG:HH12	1.77	0.50
1:AL:192:LEU:O	1:AL:196:ILE:HG12	2.12	0.50
1:AM:192:LEU:O	1:AM:196:ILE:HG12	2.12	0.50
1:AP:123:HIS:HA	1:AP:358:ARG:HH12	1.77	0.50
1:AP:347:ARG:HA	1:AP:350:LYS:HZ2	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:296:PHE:HA	1:B:299:HIS:HD1	1.77	0.50
1:D:296:PHE:HA	1:D:299:HIS:HD1	1.77	0.50
1:E:307:LYS:O	1:E:310:GLU:HG2	2.11	0.50
1:H:123:HIS:HA	1:H:358:ARG:HH12	1.77	0.50
1:J:192:LEU:O	1:J:196:ILE:HG12	2.12	0.50
1:K:330:GLU:O	1:K:333:GLU:HG2	2.11	0.50
1:M:307:LYS:O	1:M:310:GLU:HG2	2.11	0.50
1:O:75:ARG:HH22	1:O:90:LEU:N	2.09	0.50
1:P:192:LEU:O	1:P:196:ILE:HG12	2.12	0.50
1:Q:123:HIS:HA	1:Q:358:ARG:HH12	1.77	0.50
1:U:123:HIS:HA	1:U:358:ARG:HH12	1.77	0.50
1:Z:307:LYS:O	1:Z:310:GLU:HG2	2.11	0.50
1:g:192:LEU:O	1:g:196:ILE:HG12	2.12	0.50
1:k:347:ARG:HA	1:k:350:LYS:HZ2	1.77	0.50
1:u:85:ILE:HG21	1:u:126:LEU:HD21	1.94	0.50
1:w:330:GLU:O	1:w:333:GLU:HG2	2.11	0.50
1:1:85:ILE:HG21	1:1:126:LEU:HD21	1.94	0.50
1:5:75:ARG:HH22	1:5:90:LEU:N	2.09	0.50
1:6:307:LYS:O	1:6:310:GLU:HG2	2.11	0.50
1:8:307:LYS:O	1:8:310:GLU:HG2	2.12	0.50
1:AA:296:PHE:HA	1:AA:299:HIS:HD1	1.77	0.50
1:AC:116:PHE:CZ	1:AC:120:ILE:HD11	2.47	0.50
1:AH:75:ARG:HH22	1:AH:90:LEU:N	2.09	0.50
1:AH:192:LEU:O	1:AH:196:ILE:HG12	2.12	0.50
1:AI:123:HIS:HA	1:AI:358:ARG:HH12	1.77	0.50
1:AI:213:LEU:HD23	1:AJ:223:SER:HB2	1.94	0.50
1:AR:123:HIS:HA	1:AR:358:ARG:HH12	1.77	0.50
1:I:202:HIS:CB	1:J:234:LEU:HA	2.42	0.50
1:M:123:HIS:HA	1:M:358:ARG:HH12	1.77	0.50
1:P:116:PHE:CZ	1:P:120:ILE:HD11	2.47	0.50
1:S:202:HIS:CB	1:T:234:LEU:HA	2.42	0.50
1:T:85:ILE:HG21	1:T:126:LEU:HD21	1.94	0.50
1:V:192:LEU:O	1:V:196:ILE:HG12	2.12	0.50
1:W:296:PHE:HA	1:W:299:HIS:HD1	1.77	0.50
1:X:192:LEU:O	1:X:196:ILE:HG12	2.12	0.50
1:Y:296:PHE:HA	1:Y:299:HIS:HD1	1.77	0.50
1:a:123:HIS:HA	1:a:358:ARG:HH12	1.77	0.50
1:k:307:LYS:O	1:k:310:GLU:HG2	2.11	0.50
1:q:296:PHE:HA	1:q:299:HIS:HD1	1.77	0.50
1:s:192:LEU:O	1:s:196:ILE:HG12	2.12	0.50
1:t:192:LEU:O	1:t:196:ILE:HG12	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:192:LEU:O	1:x:196:ILE:HG12	2.12	0.50
1:z:75:ARG:HH22	1:z:90:LEU:N	2.09	0.50
1:2:202:HIS:CB	1:3:234:LEU:HA	2.42	0.49
1:6:123:HIS:HA	1:6:358:ARG:HH12	1.77	0.49
1:AD:85:ILE:HG21	1:AD:126:LEU:HD21	1.94	0.49
1:AE:192:LEU:O	1:AE:196:ILE:HG12	2.12	0.49
1:AF:307:LYS:O	1:AF:310:GLU:HG2	2.11	0.49
1:AI:116:PHE:CZ	1:AI:120:ILE:HD11	2.47	0.49
1:AK:123:HIS:HA	1:AK:358:ARG:HH12	1.77	0.49
1:AK:213:LEU:HD23	1:AL:223:SER:HB2	1.94	0.49
1:AM:307:LYS:O	1:AM:310:GLU:HG2	2.11	0.49
1:AP:192:LEU:O	1:AP:196:ILE:HG12	2.12	0.49
1:AQ:192:LEU:O	1:AQ:196:ILE:HG12	2.12	0.49
1:AS:75:ARG:HH22	1:AS:90:LEU:N	2.09	0.49
1:B:123:HIS:HA	1:B:358:ARG:HH12	1.77	0.49
1:E:213:LEU:HD23	1:F:223:SER:HB2	1.94	0.49
1:G:296:PHE:HA	1:G:299:HIS:HD1	1.77	0.49
1:H:296:PHE:HA	1:H:299:HIS:HD1	1.77	0.49
1:J:296:PHE:HA	1:J:299:HIS:HD1	1.77	0.49
1:K:192:LEU:O	1:K:196:ILE:HG12	2.12	0.49
1:O:123:HIS:HA	1:O:358:ARG:HH12	1.77	0.49
1:Q:116:PHE:CZ	1:Q:120:ILE:HD11	2.47	0.49
1:V:116:PHE:CZ	1:V:120:ILE:HD11	2.47	0.49
1:W:123:HIS:HA	1:W:358:ARG:HH12	1.77	0.49
1:Y:123:HIS:HA	1:Y:358:ARG:HH12	1.77	0.49
1:c:116:PHE:CZ	1:c:120:ILE:HD11	2.47	0.49
1:d:307:LYS:O	1:d:310:GLU:HG2	2.11	0.49
1:j:307:LYS:O	1:j:310:GLU:HG2	2.12	0.49
1:k:116:PHE:CZ	1:k:120:ILE:HD11	2.47	0.49
1:w:307:LYS:O	1:w:310:GLU:HG2	2.11	0.49
1:x:307:LYS:O	1:x:310:GLU:HG2	2.12	0.49
1:y:192:LEU:O	1:y:196:ILE:HG12	2.12	0.49
1:3:116:PHE:CZ	1:3:120:ILE:HD11	2.47	0.49
1:5:116:PHE:CZ	1:5:120:ILE:HD11	2.47	0.49
1:7:85:ILE:HG21	1:7:126:LEU:HD21	1.94	0.49
1:8:192:LEU:O	1:8:196:ILE:HG12	2.12	0.49
1:AG:85:ILE:HG21	1:AG:126:LEU:HD21	1.94	0.49
1:AH:85:ILE:HG21	1:AH:126:LEU:HD21	1.94	0.49
1:AH:347:ARG:HA	1:AH:350:LYS:HZ2	1.77	0.49
1:AK:296:PHE:HA	1:AK:299:HIS:HD1	1.77	0.49
1:AQ:123:HIS:HA	1:AQ:358:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:123:HIS:HA	1:D:358:ARG:HH12	1.77	0.49
1:D:192:LEU:O	1:D:196:ILE:HG12	2.12	0.49
1:E:192:LEU:O	1:E:196:ILE:HG12	2.12	0.49
1:H:192:LEU:O	1:H:196:ILE:HG12	2.12	0.49
1:H:307:LYS:O	1:H:310:GLU:HG2	2.11	0.49
1:I:192:LEU:O	1:I:196:ILE:HG12	2.12	0.49
1:K:296:PHE:HA	1:K:299:HIS:HD1	1.77	0.49
1:K:307:LYS:O	1:K:310:GLU:HG2	2.11	0.49
1:N:116:PHE:CZ	1:N:120:ILE:HD11	2.47	0.49
1:Q:192:LEU:O	1:Q:196:ILE:HG12	2.12	0.49
1:T:116:PHE:CZ	1:T:120:ILE:HD11	2.47	0.49
1:U:116:PHE:CZ	1:U:120:ILE:HD11	2.48	0.49
1:V:347:ARG:HA	1:V:350:LYS:HZ2	1.77	0.49
1:W:192:LEU:O	1:W:196:ILE:HG12	2.12	0.49
1:X:116:PHE:CZ	1:X:120:ILE:HD11	2.47	0.49
1:a:307:LYS:O	1:a:310:GLU:HG2	2.12	0.49
1:b:192:LEU:O	1:b:196:ILE:HG12	2.12	0.49
1:c:123:HIS:HA	1:c:358:ARG:HH12	1.77	0.49
1:c:296:PHE:HA	1:c:299:HIS:HD1	1.77	0.49
1:d:296:PHE:HA	1:d:299:HIS:HD1	1.77	0.49
1:f:116:PHE:CZ	1:f:120:ILE:HD11	2.47	0.49
1:h:116:PHE:CZ	1:h:120:ILE:HD11	2.47	0.49
1:h:123:HIS:HA	1:h:358:ARG:HH12	1.77	0.49
1:m:307:LYS:O	1:m:310:GLU:HG2	2.11	0.49
1:p:116:PHE:CZ	1:p:120:ILE:HD11	2.47	0.49
1:s:296:PHE:HA	1:s:299:HIS:HD1	1.77	0.49
1:u:123:HIS:HA	1:u:358:ARG:HH12	1.77	0.49
1:v:192:LEU:O	1:v:196:ILE:HG12	2.12	0.49
1:w:347:ARG:HA	1:w:350:LYS:HZ2	1.77	0.49
1:x:213:LEU:HD23	1:y:223:SER:HB2	1.94	0.49
1:1:116:PHE:CZ	1:1:120:ILE:HD11	2.47	0.49
1:5:307:LYS:O	1:5:310:GLU:HG2	2.11	0.49
1:8:85:ILE:HG21	1:8:126:LEU:HD21	1.94	0.49
1:8:116:PHE:CZ	1:8:120:ILE:HD11	2.47	0.49
1:9:85:ILE:HG21	1:9:126:LEU:HD21	1.94	0.49
1:AA:123:HIS:HA	1:AA:358:ARG:HH12	1.77	0.49
1:AB:192:LEU:O	1:AB:196:ILE:HG12	2.12	0.49
1:AE:85:ILE:HG21	1:AE:126:LEU:HD21	1.94	0.49
1:AF:85:ILE:HG21	1:AF:126:LEU:HD21	1.94	0.49
1:AG:116:PHE:CZ	1:AG:120:ILE:HD11	2.47	0.49
1:AJ:123:HIS:HA	1:AJ:358:ARG:HH12	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:116:PHE:CZ	1:AK:120:ILE:HD11	2.48	0.49
1:AQ:116:PHE:CZ	1:AQ:120:ILE:HD11	2.47	0.49
1:AR:192:LEU:O	1:AR:196:ILE:HG12	2.12	0.49
1:AS:116:PHE:CZ	1:AS:120:ILE:HD11	2.47	0.49
1:E:116:PHE:CZ	1:E:120:ILE:HD11	2.47	0.49
1:E:123:HIS:HA	1:E:358:ARG:HH12	1.77	0.49
1:M:116:PHE:CZ	1:M:120:ILE:HD11	2.47	0.49
1:M:192:LEU:O	1:M:196:ILE:HG12	2.12	0.49
1:N:123:HIS:HA	1:N:358:ARG:HH12	1.77	0.49
1:O:307:LYS:O	1:O:310:GLU:HG2	2.11	0.49
1:Q:307:LYS:O	1:Q:310:GLU:HG2	2.11	0.49
1:Z:116:PHE:CZ	1:Z:120:ILE:HD11	2.47	0.49
1:a:116:PHE:CZ	1:a:120:ILE:HD11	2.47	0.49
1:d:192:LEU:O	1:d:196:ILE:HG12	2.12	0.49
1:e:116:PHE:CZ	1:e:120:ILE:HD11	2.47	0.49
1:e:192:LEU:O	1:e:196:ILE:HG12	2.12	0.49
1:g:123:HIS:HA	1:g:358:ARG:HH12	1.77	0.49
1:i:192:LEU:O	1:i:196:ILE:HG12	2.12	0.49
1:k:123:HIS:HA	1:k:358:ARG:HH12	1.77	0.49
1:k:296:PHE:HA	1:k:299:HIS:HD1	1.77	0.49
1:m:116:PHE:CZ	1:m:120:ILE:HD11	2.47	0.49
1:n:116:PHE:CZ	1:n:120:ILE:HD11	2.47	0.49
1:o:347:ARG:HA	1:o:350:LYS:HZ2	1.77	0.49
1:q:307:LYS:O	1:q:310:GLU:HG2	2.11	0.49
1:s:307:LYS:O	1:s:310:GLU:HG2	2.11	0.49
1:v:85:ILE:HG21	1:v:126:LEU:HD21	1.94	0.49
1:x:116:PHE:CZ	1:x:120:ILE:HD11	2.47	0.49
1:2:85:ILE:HG21	1:2:126:LEU:HD21	1.94	0.49
1:A:116:PHE:CZ	1:A:120:ILE:HD11	2.47	0.49
1:AE:116:PHE:CZ	1:AE:120:ILE:HD11	2.48	0.49
1:AJ:116:PHE:CZ	1:AJ:120:ILE:HD11	2.48	0.49
1:AJ:296:PHE:HA	1:AJ:299:HIS:HD1	1.77	0.49
1:AL:296:PHE:HA	1:AL:299:HIS:HD1	1.77	0.49
1:AQ:296:PHE:HA	1:AQ:299:HIS:HD1	1.77	0.49
1:AR:85:ILE:HG21	1:AR:126:LEU:HD21	1.94	0.49
1:F:116:PHE:CZ	1:F:120:ILE:HD11	2.47	0.49
1:G:116:PHE:CZ	1:G:120:ILE:HD11	2.47	0.49
1:G:123:HIS:HA	1:G:358:ARG:HH12	1.77	0.49
1:K:116:PHE:CZ	1:K:120:ILE:HD11	2.47	0.49
1:K:123:HIS:HA	1:K:358:ARG:HH12	1.77	0.49
1:R:116:PHE:CZ	1:R:120:ILE:HD11	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:123:HIS:HA	1:R:358:ARG:HH12	1.77	0.49
1:U:85:ILE:HG21	1:U:126:LEU:HD21	1.94	0.49
1:V:296:PHE:HA	1:V:299:HIS:HD1	1.77	0.49
1:Y:116:PHE:CZ	1:Y:120:ILE:HD11	2.47	0.49
1:b:116:PHE:CZ	1:b:120:ILE:HD11	2.47	0.49
1:c:307:LYS:O	1:c:310:GLU:HG2	2.12	0.49
1:d:116:PHE:CZ	1:d:120:ILE:HD11	2.47	0.49
1:e:123:HIS:HA	1:e:358:ARG:HH12	1.77	0.49
1:h:192:LEU:O	1:h:196:ILE:HG12	2.12	0.49
1:h:227:PHE:HB2	1:i:213:LEU:HD11	1.93	0.49
1:n:85:ILE:HG21	1:n:126:LEU:HD21	1.94	0.49
1:y:85:ILE:HG21	1:y:126:LEU:HD21	1.94	0.49
1:z:85:ILE:HG21	1:z:126:LEU:HD21	1.94	0.49
1:0:123:HIS:HA	1:0:358:ARG:HH12	1.77	0.49
1:0:307:LYS:O	1:0:310:GLU:HG2	2.11	0.49
1:4:85:ILE:HG21	1:4:126:LEU:HD21	1.94	0.49
1:5:123:HIS:HA	1:5:358:ARG:HH12	1.77	0.49
1:6:85:ILE:HG21	1:6:126:LEU:HD21	1.94	0.49
1:6:116:PHE:CZ	1:6:120:ILE:HD11	2.47	0.49
1:6:192:LEU:O	1:6:196:ILE:HG12	2.12	0.49
1:8:123:HIS:HA	1:8:358:ARG:HH12	1.77	0.49
1:A:307:LYS:O	1:A:310:GLU:HG2	2.11	0.49
1:AB:85:ILE:HG21	1:AB:126:LEU:HD21	1.94	0.49
1:AC:85:ILE:HG21	1:AC:126:LEU:HD21	1.94	0.49
1:AH:93:LYS:HD3	1:AH:100:ARG:HH22	1.78	0.49
1:AO:123:HIS:HA	1:AO:358:ARG:HH12	1.77	0.49
1:AP:116:PHE:CZ	1:AP:120:ILE:HD11	2.47	0.49
1:AP:213:LEU:HD23	1:AQ:223:SER:HB2	1.94	0.49
1:AP:307:LYS:O	1:AP:310:GLU:HG2	2.11	0.49
1:D:116:PHE:CZ	1:D:120:ILE:HD11	2.47	0.49
1:W:307:LYS:O	1:W:310:GLU:HG2	2.11	0.49
1:d:123:HIS:HA	1:d:358:ARG:HH12	1.77	0.49
1:f:123:HIS:HA	1:f:358:ARG:HH12	1.77	0.49
1:p:93:LYS:HD3	1:p:100:ARG:HH22	1.78	0.49
1:t:85:ILE:HG21	1:t:126:LEU:HD21	1.94	0.49
1:t:116:PHE:CZ	1:t:120:ILE:HD11	2.47	0.49
1:u:307:LYS:O	1:u:310:GLU:HG2	2.11	0.49
1:w:85:ILE:HG21	1:w:126:LEU:HD21	1.94	0.49
1:w:116:PHE:CZ	1:w:120:ILE:HD11	2.47	0.49
1:x:75:ARG:HH22	1:x:90:LEU:N	2.09	0.49
1:x:85:ILE:HG21	1:x:126:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:123:HIS:HA	1:x:358:ARG:HH12	1.77	0.49
1:2:116:PHE:CZ	1:2:120:ILE:HD11	2.47	0.49
1:3:199:LEU:HD23	1:3:203:LEU:HD23	1.95	0.49
1:AA:116:PHE:CZ	1:AA:120:ILE:HD11	2.47	0.49
1:AD:93:LYS:HD3	1:AD:100:ARG:HH22	1.78	0.49
1:AD:123:HIS:HA	1:AD:358:ARG:HH12	1.77	0.49
1:AH:116:PHE:CZ	1:AH:120:ILE:HD11	2.47	0.49
1:AL:347:ARG:HA	1:AL:350:LYS:HZ2	1.77	0.49
1:AN:307:LYS:O	1:AN:310:GLU:HG2	2.12	0.49
1:AO:116:PHE:CZ	1:AO:120:ILE:HD11	2.47	0.49
1:AP:93:LYS:HD3	1:AP:100:ARG:HH22	1.78	0.49
1:AS:85:ILE:HG21	1:AS:126:LEU:HD21	1.94	0.49
1:C:116:PHE:CZ	1:C:120:ILE:HD11	2.47	0.49
1:F:123:HIS:HA	1:F:358:ARG:HH12	1.77	0.49
1:I:58:GLN:HG3	1:I:137:GLN:HB3	1.95	0.49
1:I:123:HIS:HA	1:I:358:ARG:HH12	1.77	0.49
1:L:116:PHE:CZ	1:L:120:ILE:HD11	2.47	0.49
1:N:85:ILE:HG21	1:N:126:LEU:HD21	1.94	0.49
1:P:199:LEU:HD23	1:P:203:LEU:HD23	1.95	0.49
1:P:296:PHE:HA	1:P:299:HIS:HD1	1.77	0.49
1:Q:93:LYS:HD3	1:Q:100:ARG:HH22	1.78	0.49
1:T:244:LYS:HE2	1:z:58:GLN:O	2.13	0.49
1:X:199:LEU:HD23	1:X:203:LEU:HD23	1.95	0.49
1:Z:192:LEU:O	1:Z:196:ILE:HG12	2.12	0.49
1:b:93:LYS:HD3	1:b:100:ARG:HH22	1.78	0.49
1:d:225:LEU:HD21	1:d:254:GLU:HA	1.95	0.49
1:f:93:LYS:HD3	1:f:100:ARG:HH22	1.78	0.49
1:f:347:ARG:HA	1:f:350:LYS:HZ2	1.77	0.49
1:h:85:ILE:HG21	1:h:126:LEU:HD21	1.94	0.49
1:h:93:LYS:HD3	1:h:100:ARG:HH22	1.78	0.49
1:h:199:LEU:HD23	1:h:203:LEU:HD23	1.95	0.49
1:i:199:LEU:HD23	1:i:203:LEU:HD23	1.95	0.49
1:j:116:PHE:CZ	1:j:120:ILE:HD11	2.48	0.49
1:l:93:LYS:HD3	1:l:100:ARG:HH22	1.78	0.49
1:m:123:HIS:HA	1:m:358:ARG:HH12	1.77	0.49
1:n:93:LYS:HD3	1:n:100:ARG:HH22	1.78	0.49
1:n:199:LEU:HD23	1:n:203:LEU:HD23	1.95	0.49
1:o:116:PHE:CZ	1:o:120:ILE:HD11	2.47	0.49
1:o:199:LEU:HD23	1:o:203:LEU:HD23	1.95	0.49
1:p:123:HIS:HA	1:p:358:ARG:HH12	1.77	0.49
1:q:192:LEU:O	1:q:196:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:123:HIS:HA	1:r:358:ARG:HH12	1.77	0.49
1:u:116:PHE:CZ	1:u:120:ILE:HD11	2.47	0.49
1:x:58:GLN:HG3	1:x:137:GLN:HB3	1.95	0.49
1:y:116:PHE:CZ	1:y:120:ILE:HD11	2.47	0.49
1:z:199:LEU:HD23	1:z:203:LEU:HD23	1.95	0.49
1:3:85:ILE:HG21	1:3:126:LEU:HD21	1.94	0.49
1:3:93:LYS:HD3	1:3:100:ARG:HH22	1.78	0.49
1:5:85:ILE:HG21	1:5:126:LEU:HD21	1.94	0.49
1:5:93:LYS:HD3	1:5:100:ARG:HH22	1.78	0.49
1:6:123:HIS:NE2	1:6:125:GLU:HB2	2.28	0.49
1:8:58:GLN:HG3	1:8:137:GLN:HB3	1.95	0.49
1:AC:93:LYS:HD3	1:AC:100:ARG:HH22	1.78	0.49
1:AE:93:LYS:HD3	1:AE:100:ARG:HH22	1.78	0.49
1:AI:58:GLN:HG3	1:AI:137:GLN:HB3	1.95	0.49
1:AI:93:LYS:HD3	1:AI:100:ARG:HH22	1.78	0.49
1:AI:199:LEU:HD23	1:AI:203:LEU:HD23	1.95	0.49
1:AN:192:LEU:O	1:AN:196:ILE:HG12	2.12	0.49
1:AQ:199:LEU:HD23	1:AQ:203:LEU:HD23	1.95	0.49
1:B:58:GLN:HG3	1:B:137:GLN:HB3	1.95	0.49
1:C:58:GLN:HG3	1:C:137:GLN:HB3	1.95	0.49
1:C:123:HIS:HA	1:C:358:ARG:HH12	1.77	0.49
1:E:296:PHE:HA	1:E:299:HIS:HD1	1.77	0.49
1:H:58:GLN:HG3	1:H:137:GLN:HB3	1.95	0.49
1:I:85:ILE:HG21	1:I:126:LEU:HD21	1.94	0.49
1:J:123:HIS:NE2	1:J:125:GLU:HB2	2.28	0.49
1:K:58:GLN:HG3	1:K:137:GLN:HB3	1.95	0.49
1:K:93:LYS:HD3	1:K:100:ARG:HH22	1.78	0.49
1:L:58:GLN:HG3	1:L:137:GLN:HB3	1.95	0.49
1:M:58:GLN:HG3	1:M:137:GLN:HB3	1.95	0.49
1:M:93:LYS:HD3	1:M:100:ARG:HH22	1.78	0.49
1:M:199:LEU:HD23	1:M:203:LEU:HD23	1.95	0.49
1:M:296:PHE:HA	1:M:299:HIS:HD1	1.77	0.49
1:N:199:LEU:HD23	1:N:203:LEU:HD23	1.95	0.49
1:O:93:LYS:HD3	1:O:100:ARG:HH22	1.78	0.49
1:R:199:LEU:HD23	1:R:203:LEU:HD23	1.95	0.49
1:S:58:GLN:HG3	1:S:137:GLN:HB3	1.95	0.49
1:V:123:HIS:HA	1:V:358:ARG:HH12	1.77	0.49
1:X:93:LYS:HD3	1:X:100:ARG:HH22	1.78	0.49
1:Y:307:LYS:O	1:Y:310:GLU:HG2	2.12	0.49
1:d:85:ILE:HG21	1:d:126:LEU:HD21	1.94	0.49
1:f:199:LEU:HD23	1:f:203:LEU:HD23	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:123:HIS:HA	1:i:358:ARG:HH12	1.77	0.49
1:j:93:LYS:HD3	1:j:100:ARG:HH22	1.78	0.49
1:l:116:PHE:CZ	1:l:120:ILE:HD11	2.48	0.49
1:o:192:LEU:O	1:o:196:ILE:HG12	2.12	0.49
1:p:296:PHE:HA	1:p:299:HIS:HD1	1.77	0.49
1:q:85:ILE:HG21	1:q:126:LEU:HD21	1.94	0.49
1:q:116:PHE:CZ	1:q:120:ILE:HD11	2.47	0.49
1:r:296:PHE:HA	1:r:299:HIS:HD1	1.77	0.49
1:s:93:LYS:HD3	1:s:100:ARG:HH22	1.78	0.49
1:t:199:LEU:HD23	1:t:203:LEU:HD23	1.95	0.49
1:x:199:LEU:HD23	1:x:203:LEU:HD23	1.95	0.49
1:1:192:LEU:O	1:1:196:ILE:HG12	2.12	0.49
1:1:199:LEU:HD23	1:1:203:LEU:HD23	1.95	0.49
1:1:208:LYS:O	1:1:212:ARG:HG3	2.13	0.49
1:2:123:HIS:NE2	1:2:125:GLU:HB2	2.28	0.49
1:3:123:HIS:HA	1:3:358:ARG:HH12	1.77	0.49
1:3:192:LEU:O	1:3:196:ILE:HG12	2.12	0.49
1:4:123:HIS:NE2	1:4:125:GLU:HB2	2.28	0.49
1:7:93:LYS:HD3	1:7:100:ARG:HH22	1.78	0.49
1:8:199:LEU:HD23	1:8:203:LEU:HD23	1.95	0.49
1:AC:123:HIS:NE2	1:AC:125:GLU:HB2	2.28	0.49
1:AE:123:HIS:NE2	1:AE:125:GLU:HB2	2.28	0.49
1:AF:199:LEU:HD23	1:AF:203:LEU:HD23	1.95	0.49
1:AG:123:HIS:NE2	1:AG:125:GLU:HB2	2.28	0.49
1:AJ:199:LEU:HD23	1:AJ:203:LEU:HD23	1.95	0.49
1:AK:58:GLN:HG3	1:AK:137:GLN:HB3	1.95	0.49
1:AL:85:ILE:HG21	1:AL:126:LEU:HD21	1.94	0.49
1:AL:116:PHE:CZ	1:AL:120:ILE:HD11	2.47	0.49
1:AM:208:LYS:O	1:AM:212:ARG:HG3	2.13	0.49
1:AO:296:PHE:HA	1:AO:299:HIS:HD1	1.77	0.49
1:AP:123:HIS:NE2	1:AP:125:GLU:HB2	2.28	0.49
1:C:307:LYS:O	1:C:310:GLU:HG2	2.11	0.49
1:D:58:GLN:HG3	1:D:137:GLN:HB3	1.95	0.49
1:D:85:ILE:HG21	1:D:126:LEU:HD21	1.94	0.49
1:D:306:THR:HB	1:D:334:ILE:HG22	1.95	0.49
1:E:58:GLN:HG3	1:E:137:GLN:HB3	1.95	0.49
1:E:85:ILE:HG21	1:E:126:LEU:HD21	1.94	0.49
1:E:123:HIS:NE2	1:E:125:GLU:HB2	2.28	0.49
1:I:306:THR:HB	1:I:334:ILE:HG22	1.95	0.49
1:L:123:HIS:NE2	1:L:125:GLU:HB2	2.28	0.49
1:O:192:LEU:O	1:O:196:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:199:LEU:HD23	1:O:203:LEU:HD23	1.95	0.49
1:O:296:PHE:HA	1:O:299:HIS:HD1	1.77	0.49
1:P:85:ILE:HG21	1:P:126:LEU:HD21	1.94	0.49
1:Q:58:GLN:HG3	1:Q:137:GLN:HB3	1.95	0.49
1:S:85:ILE:HG21	1:S:126:LEU:HD21	1.94	0.49
1:S:123:HIS:NE2	1:S:125:GLU:HB2	2.28	0.49
1:S:199:LEU:HD23	1:S:203:LEU:HD23	1.95	0.49
1:V:93:LYS:HD3	1:V:100:ARG:HH22	1.78	0.49
1:V:199:LEU:HD23	1:V:203:LEU:HD23	1.95	0.49
1:W:58:GLN:HG3	1:W:137:GLN:HB3	1.95	0.49
1:Y:199:LEU:HD23	1:Y:203:LEU:HD23	1.95	0.49
1:Z:123:HIS:NE2	1:Z:125:GLU:HB2	2.28	0.49
1:a:58:GLN:HG3	1:a:137:GLN:HB3	1.95	0.49
1:a:85:ILE:HG21	1:a:126:LEU:HD21	1.94	0.49
1:b:199:LEU:HD23	1:b:203:LEU:HD23	1.95	0.49
1:c:199:LEU:HD23	1:c:203:LEU:HD23	1.95	0.49
1:d:58:GLN:HG3	1:d:137:GLN:HB3	1.95	0.49
1:d:93:LYS:HD3	1:d:100:ARG:HH22	1.78	0.49
1:f:85:ILE:HG21	1:f:126:LEU:HD21	1.94	0.49
1:f:192:LEU:O	1:f:196:ILE:HG12	2.12	0.49
1:j:192:LEU:O	1:j:196:ILE:HG12	2.12	0.49
1:k:199:LEU:HD23	1:k:203:LEU:HD23	1.95	0.49
1:l:58:GLN:HG3	1:l:137:GLN:HB3	1.95	0.49
1:l:123:HIS:HA	1:l:358:ARG:HH12	1.77	0.49
1:l:192:LEU:O	1:l:196:ILE:HG12	2.12	0.49
1:l:296:PHE:HA	1:l:299:HIS:HD1	1.77	0.49
1:m:192:LEU:O	1:m:196:ILE:HG12	2.12	0.49
1:m:208:LYS:O	1:m:212:ARG:HG3	2.13	0.49
1:o:123:HIS:HA	1:o:358:ARG:HH12	1.77	0.49
1:q:347:ARG:HA	1:q:350:LYS:HZ2	1.78	0.49
1:t:93:LYS:HD3	1:t:100:ARG:HH22	1.78	0.49
1:t:123:HIS:NE2	1:t:125:GLU:HB2	2.28	0.49
1:v:93:LYS:HD3	1:v:100:ARG:HH22	1.78	0.49
1:v:123:HIS:NE2	1:v:125:GLU:HB2	2.28	0.49
1:w:199:LEU:HD23	1:w:203:LEU:HD23	1.95	0.49
1:y:208:LYS:O	1:y:212:ARG:HG3	2.13	0.49
1:z:58:GLN:HG3	1:z:137:GLN:HB3	1.95	0.49
1:0:123:HIS:NE2	1:0:125:GLU:HB2	2.28	0.49
1:2:93:LYS:HD3	1:2:100:ARG:HH22	1.78	0.49
1:8:123:HIS:NE2	1:8:125:GLU:HB2	2.28	0.49
1:A:58:GLN:HG3	1:A:137:GLN:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:123:HIS:HA	1:A:358:ARG:HH12	1.77	0.49
1:A:208:LYS:O	1:A:212:ARG:HG3	2.13	0.49
1:A:306:THR:HB	1:A:334:ILE:HG22	1.95	0.49
1:AA:58:GLN:HG3	1:AA:137:GLN:HB3	1.95	0.49
1:AA:123:HIS:NE2	1:AA:125:GLU:HB2	2.28	0.49
1:AB:93:LYS:HD3	1:AB:100:ARG:HH22	1.78	0.49
1:AC:199:LEU:HD23	1:AC:203:LEU:HD23	1.95	0.49
1:AE:199:LEU:HD23	1:AE:203:LEU:HD23	1.95	0.49
1:AH:123:HIS:HA	1:AH:358:ARG:HH12	1.77	0.49
1:AJ:85:ILE:HG21	1:AJ:126:LEU:HD21	1.94	0.49
1:AK:123:HIS:NE2	1:AK:125:GLU:HB2	2.28	0.49
1:AK:199:LEU:HD23	1:AK:203:LEU:HD23	1.95	0.49
1:AM:85:ILE:HG21	1:AM:126:LEU:HD21	1.94	0.49
1:AM:123:HIS:NE2	1:AM:125:GLU:HB2	2.28	0.49
1:AM:306:THR:HB	1:AM:334:ILE:HG22	1.95	0.49
1:AN:93:LYS:HD3	1:AN:100:ARG:HH22	1.78	0.49
1:AN:296:PHE:HA	1:AN:299:HIS:HD1	1.77	0.49
1:AP:85:ILE:HG21	1:AP:126:LEU:HD21	1.94	0.49
1:D:208:LYS:O	1:D:212:ARG:HG3	2.13	0.49
1:E:93:LYS:HD3	1:E:100:ARG:HH22	1.78	0.49
1:E:167:VAL:HG13	1:E:170:LYS:HZ2	1.78	0.49
1:E:306:THR:HB	1:E:334:ILE:HG22	1.95	0.49
1:F:123:HIS:NE2	1:F:125:GLU:HB2	2.28	0.49
1:F:208:LYS:O	1:F:212:ARG:HG3	2.13	0.49
1:G:58:GLN:HG3	1:G:137:GLN:HB3	1.95	0.49
1:H:93:LYS:HD3	1:H:100:ARG:HH22	1.78	0.49
1:I:208:LYS:O	1:I:212:ARG:HG3	2.13	0.49
1:I:347:ARG:HA	1:I:350:LYS:HZ2	1.78	0.49
1:K:199:LEU:HD23	1:K:203:LEU:HD23	1.95	0.49
1:L:123:HIS:HA	1:L:358:ARG:HH12	1.77	0.49
1:L:208:LYS:O	1:L:212:ARG:HG3	2.13	0.49
1:M:123:HIS:NE2	1:M:125:GLU:HB2	2.28	0.49
1:O:58:GLN:HG3	1:O:137:GLN:HB3	1.95	0.49
1:O:123:HIS:NE2	1:O:125:GLU:HB2	2.28	0.49
1:Q:85:ILE:HG21	1:Q:126:LEU:HD21	1.94	0.49
1:Q:123:HIS:NE2	1:Q:125:GLU:HB2	2.28	0.49
1:R:123:HIS:NE2	1:R:125:GLU:HB2	2.28	0.49
1:R:192:LEU:O	1:R:196:ILE:HG12	2.12	0.49
1:T:192:LEU:O	1:T:196:ILE:HG12	2.12	0.49
1:T:199:LEU:HD23	1:T:203:LEU:HD23	1.95	0.49
1:U:93:LYS:HD3	1:U:100:ARG:HH22	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:93:LYS:HD3	1:W:100:ARG:HH22	1.78	0.49
1:W:208:LYS:O	1:W:212:ARG:HG3	2.13	0.49
1:X:296:PHE:HA	1:X:299:HIS:HD1	1.77	0.49
1:Y:208:LYS:O	1:Y:212:ARG:HG3	2.13	0.49
1:Z:85:ILE:HG21	1:Z:126:LEU:HD21	1.94	0.49
1:Z:93:LYS:HD3	1:Z:100:ARG:HH22	1.78	0.49
1:e:58:GLN:HG3	1:e:137:GLN:HB3	1.95	0.49
1:e:208:LYS:O	1:e:212:ARG:HG3	2.13	0.49
1:e:306:THR:HB	1:e:334:ILE:HG22	1.95	0.49
1:f:123:HIS:NE2	1:f:125:GLU:HB2	2.28	0.49
1:g:85:ILE:HG21	1:g:126:LEU:HD21	1.94	0.49
1:h:123:HIS:NE2	1:h:125:GLU:HB2	2.28	0.49
1:m:85:ILE:HG21	1:m:126:LEU:HD21	1.94	0.49
1:m:306:THR:HB	1:m:334:ILE:HG22	1.95	0.49
1:p:85:ILE:HG21	1:p:126:LEU:HD21	1.94	0.49
1:s:85:ILE:HG21	1:s:126:LEU:HD21	1.94	0.49
1:u:199:LEU:HD23	1:u:203:LEU:HD23	1.95	0.49
1:v:199:LEU:HD23	1:v:203:LEU:HD23	1.95	0.49
1:z:123:HIS:NE2	1:z:125:GLU:HB2	2.28	0.49
1:0:208:LYS:O	1:0:212:ARG:HG3	2.13	0.49
1:2:199:LEU:HD23	1:2:203:LEU:HD23	1.95	0.49
1:6:93:LYS:HD3	1:6:100:ARG:HH22	1.78	0.49
1:7:116:PHE:CZ	1:7:120:ILE:HD11	2.47	0.49
1:AA:208:LYS:O	1:AA:212:ARG:HG3	2.13	0.49
1:AC:202:HIS:CB	1:AD:234:LEU:HA	2.42	0.49
1:AF:93:LYS:HD3	1:AF:100:ARG:HH22	1.78	0.49
1:AF:116:PHE:CZ	1:AF:120:ILE:HD11	2.47	0.49
1:AI:123:HIS:NE2	1:AI:125:GLU:HB2	2.28	0.49
1:AM:58:GLN:HG3	1:AM:137:GLN:HB3	1.95	0.49
1:AM:116:PHE:CZ	1:AM:120:ILE:HD11	2.47	0.49
1:AN:116:PHE:CZ	1:AN:120:ILE:HD11	2.47	0.49
1:AN:213:LEU:HD23	1:AO:223:SER:HB2	1.94	0.49
1:AQ:123:HIS:NE2	1:AQ:125:GLU:HB2	2.28	0.49
1:AR:58:GLN:HG3	1:AR:137:GLN:HB3	1.95	0.49
1:AR:93:LYS:HD3	1:AR:100:ARG:HH22	1.78	0.49
1:AR:116:PHE:CZ	1:AR:120:ILE:HD11	2.47	0.49
1:AR:208:LYS:O	1:AR:212:ARG:HG3	2.13	0.49
1:AS:208:LYS:O	1:AS:212:ARG:HG3	2.13	0.49
1:C:85:ILE:HG21	1:C:126:LEU:HD21	1.94	0.49
1:C:208:LYS:O	1:C:212:ARG:HG3	2.13	0.49
1:H:116:PHE:CZ	1:H:120:ILE:HD11	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:208:LYS:O	1:H:212:ARG:HG3	2.13	0.49
1:J:58:GLN:HG3	1:J:137:GLN:HB3	1.95	0.49
1:L:192:LEU:O	1:L:196:ILE:HG12	2.12	0.49
1:R:208:LYS:O	1:R:212:ARG:HG3	2.13	0.49
1:S:93:LYS:HD3	1:S:100:ARG:HH22	1.78	0.49
1:T:208:LYS:O	1:T:212:ARG:HG3	2.13	0.49
1:V:58:GLN:HG3	1:V:137:GLN:HB3	1.95	0.49
1:X:123:HIS:HA	1:X:358:ARG:HH12	1.77	0.49
1:c:208:LYS:O	1:c:212:ARG:HG3	2.13	0.49
1:f:208:LYS:O	1:f:212:ARG:HG3	2.13	0.49
1:g:199:LEU:HD23	1:g:203:LEU:HD23	1.95	0.49
1:i:85:ILE:HG21	1:i:126:LEU:HD21	1.94	0.49
1:l:85:ILE:HG21	1:l:126:LEU:HD21	1.94	0.49
1:m:199:LEU:HD23	1:m:203:LEU:HD23	1.95	0.49
1:n:123:HIS:NE2	1:n:125:GLU:HB2	2.28	0.49
1:o:85:ILE:HG21	1:o:126:LEU:HD21	1.94	0.49
1:o:93:LYS:HD3	1:o:100:ARG:HH22	1.78	0.49
1:p:58:GLN:HG3	1:p:137:GLN:HB3	1.95	0.49
1:q:208:LYS:O	1:q:212:ARG:HG3	2.13	0.49
1:r:93:LYS:HD3	1:r:100:ARG:HH22	1.78	0.49
1:r:116:PHE:CZ	1:r:120:ILE:HD11	2.47	0.49
1:v:58:GLN:HG3	1:v:137:GLN:HB3	1.95	0.49
1:v:116:PHE:CZ	1:v:120:ILE:HD11	2.47	0.49
1:y:199:LEU:HD23	1:y:203:LEU:HD23	1.95	0.49
1:z:93:LYS:HD3	1:z:100:ARG:HH22	1.78	0.49
1:4:116:PHE:CZ	1:4:120:ILE:HD11	2.47	0.48
1:5:199:LEU:HD23	1:5:203:LEU:HD23	1.95	0.48
1:6:199:LEU:HD23	1:6:203:LEU:HD23	1.95	0.48
1:7:208:LYS:O	1:7:212:ARG:HG3	2.13	0.48
1:8:208:LYS:O	1:8:212:ARG:HG3	2.13	0.48
1:9:208:LYS:O	1:9:212:ARG:HG3	2.13	0.48
1:A:85:ILE:HG21	1:A:126:LEU:HD21	1.94	0.48
1:AA:199:LEU:HD23	1:AA:203:LEU:HD23	1.95	0.48
1:AD:306:THR:HB	1:AD:334:ILE:HG22	1.95	0.48
1:AE:306:THR:HB	1:AE:334:ILE:HG22	1.95	0.48
1:AF:296:PHE:HA	1:AF:299:HIS:HD1	1.77	0.48
1:AG:199:LEU:HD23	1:AG:203:LEU:HD23	1.95	0.48
1:AM:93:LYS:HD3	1:AM:100:ARG:HH22	1.78	0.48
1:AM:123:HIS:HA	1:AM:358:ARG:HH12	1.77	0.48
1:AN:123:HIS:HA	1:AN:358:ARG:HH12	1.77	0.48
1:AO:199:LEU:HD23	1:AO:203:LEU:HD23	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:58:GLN:HG3	1:AP:137:GLN:HB3	1.95	0.48
1:AP:296:PHE:HA	1:AP:299:HIS:HD1	1.77	0.48
1:AR:123:HIS:NE2	1:AR:125:GLU:HB2	2.28	0.48
1:AS:58:GLN:HG3	1:AS:137:GLN:HB3	1.95	0.48
1:AS:199:LEU:HD23	1:AS:203:LEU:HD23	1.95	0.48
1:B:93:LYS:HD3	1:B:100:ARG:HH22	1.78	0.48
1:B:123:HIS:NE2	1:B:125:GLU:HB2	2.28	0.48
1:B:208:LYS:O	1:B:212:ARG:HG3	2.13	0.48
1:C:93:LYS:HD3	1:C:100:ARG:HH22	1.78	0.48
1:E:199:LEU:HD23	1:E:203:LEU:HD23	1.95	0.48
1:F:192:LEU:O	1:F:196:ILE:HG12	2.12	0.48
1:F:199:LEU:HD23	1:F:203:LEU:HD23	1.95	0.48
1:G:93:LYS:HD3	1:G:100:ARG:HH22	1.78	0.48
1:G:199:LEU:HD23	1:G:203:LEU:HD23	1.95	0.48
1:G:208:LYS:O	1:G:212:ARG:HG3	2.13	0.48
1:H:306:THR:HB	1:H:334:ILE:HG22	1.95	0.48
1:I:116:PHE:CZ	1:I:120:ILE:HD11	2.48	0.48
1:I:123:HIS:NE2	1:I:125:GLU:HB2	2.28	0.48
1:J:93:LYS:HD3	1:J:100:ARG:HH22	1.78	0.48
1:J:208:LYS:O	1:J:212:ARG:HG3	2.13	0.48
1:K:123:HIS:NE2	1:K:125:GLU:HB2	2.28	0.48
1:L:306:THR:HB	1:L:334:ILE:HG22	1.95	0.48
1:O:116:PHE:CZ	1:O:120:ILE:HD11	2.47	0.48
1:Q:199:LEU:HD23	1:Q:203:LEU:HD23	1.95	0.48
1:S:123:HIS:HA	1:S:358:ARG:HH12	1.77	0.48
1:T:93:LYS:HD3	1:T:100:ARG:HH22	1.78	0.48
1:U:58:GLN:HG3	1:U:137:GLN:HB3	1.95	0.48
1:U:199:LEU:HD23	1:U:203:LEU:HD23	1.95	0.48
1:X:58:GLN:HG3	1:X:137:GLN:HB3	1.95	0.48
1:Z:123:HIS:HA	1:Z:358:ARG:HH12	1.77	0.48
1:Z:199:LEU:HD23	1:Z:203:LEU:HD23	1.95	0.48
1:Z:208:LYS:O	1:Z:212:ARG:HG3	2.13	0.48
1:a:208:LYS:O	1:a:212:ARG:HG3	2.13	0.48
1:b:296:PHE:HA	1:b:299:HIS:HD1	1.77	0.48
1:d:199:LEU:HD23	1:d:203:LEU:HD23	1.95	0.48
1:e:85:ILE:HG21	1:e:126:LEU:HD21	1.94	0.48
1:j:199:LEU:HD23	1:j:203:LEU:HD23	1.95	0.48
1:j:296:PHE:HA	1:j:299:HIS:HD1	1.77	0.48
1:k:208:LYS:O	1:k:212:ARG:HG3	2.13	0.48
1:l:199:LEU:HD23	1:l:203:LEU:HD23	1.95	0.48
1:m:123:HIS:NE2	1:m:125:GLU:HB2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:192:LEU:O	1:p:196:ILE:HG12	2.12	0.48
1:q:93:LYS:HD3	1:q:100:ARG:HH22	1.78	0.48
1:q:123:HIS:HA	1:q:358:ARG:HH12	1.77	0.48
1:q:199:LEU:HD23	1:q:203:LEU:HD23	1.95	0.48
1:r:85:ILE:HG21	1:r:126:LEU:HD21	1.94	0.48
1:r:167:VAL:HG13	1:r:170:LYS:HZ2	1.78	0.48
1:s:116:PHE:CZ	1:s:120:ILE:HD11	2.47	0.48
1:s:123:HIS:NE2	1:s:125:GLU:HB2	2.28	0.48
1:t:58:GLN:HG3	1:t:137:GLN:HB3	1.95	0.48
1:v:208:LYS:O	1:v:212:ARG:HG3	2.13	0.48
1:x:123:HIS:NE2	1:x:125:GLU:HB2	2.28	0.48
1:x:208:LYS:O	1:x:212:ARG:HG3	2.13	0.48
1:z:116:PHE:CZ	1:z:120:ILE:HD11	2.48	0.48
1:0:58:GLN:HG3	1:0:137:GLN:HB3	1.95	0.48
1:0:116:PHE:CZ	1:0:120:ILE:HD11	2.47	0.48
1:1:306:THR:HB	1:1:334:ILE:HG22	1.95	0.48
1:4:306:THR:HB	1:4:334:ILE:HG22	1.95	0.48
1:6:58:GLN:HG3	1:6:137:GLN:HB3	1.95	0.48
1:8:93:LYS:HD3	1:8:100:ARG:HH22	1.78	0.48
1:9:116:PHE:CZ	1:9:120:ILE:HD11	2.47	0.48
1:9:199:LEU:HD23	1:9:203:LEU:HD23	1.95	0.48
1:9:306:THR:HB	1:9:334:ILE:HG22	1.95	0.48
1:AB:123:HIS:NE2	1:AB:125:GLU:HB2	2.28	0.48
1:AC:306:THR:HB	1:AC:334:ILE:HG22	1.95	0.48
1:AG:93:LYS:HD3	1:AG:100:ARG:HH22	1.78	0.48
1:AI:306:THR:HB	1:AI:334:ILE:HG22	1.95	0.48
1:AK:93:LYS:HD3	1:AK:100:ARG:HH22	1.78	0.48
1:AK:208:LYS:O	1:AK:212:ARG:HG3	2.13	0.48
1:AO:93:LYS:HD3	1:AO:100:ARG:HH22	1.78	0.48
1:AQ:208:LYS:O	1:AQ:212:ARG:HG3	2.13	0.48
1:AQ:306:THR:HB	1:AQ:334:ILE:HG22	1.95	0.48
1:B:85:ILE:HG21	1:B:126:LEU:HD21	1.94	0.48
1:B:306:THR:HB	1:B:334:ILE:HG22	1.95	0.48
1:C:199:LEU:HD23	1:C:203:LEU:HD23	1.95	0.48
1:G:123:HIS:NE2	1:G:125:GLU:HB2	2.28	0.48
1:J:116:PHE:CZ	1:J:120:ILE:HD11	2.47	0.48
1:K:85:ILE:HG21	1:K:126:LEU:HD21	1.94	0.48
1:K:208:LYS:O	1:K:212:ARG:HG3	2.13	0.48
1:K:306:THR:HB	1:K:334:ILE:HG22	1.95	0.48
1:L:199:LEU:HD23	1:L:203:LEU:HD23	1.95	0.48
1:P:58:GLN:HG3	1:P:137:GLN:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:123:HIS:HA	1:P:358:ARG:HH12	1.77	0.48
1:R:306:THR:HB	1:R:334:ILE:HG22	1.95	0.48
1:T:306:THR:HB	1:T:334:ILE:HG22	1.95	0.48
1:V:123:HIS:NE2	1:V:125:GLU:HB2	2.28	0.48
1:Y:93:LYS:HD3	1:Y:100:ARG:HH22	1.78	0.48
1:b:123:HIS:HA	1:b:358:ARG:HH12	1.77	0.48
1:d:208:LYS:O	1:d:212:ARG:HG3	2.13	0.48
1:e:123:HIS:NE2	1:e:125:GLU:HB2	2.28	0.48
1:e:199:LEU:HD23	1:e:203:LEU:HD23	1.95	0.48
1:g:58:GLN:HG3	1:g:137:GLN:HB3	1.95	0.48
1:i:93:LYS:HD3	1:i:100:ARG:HH22	1.78	0.48
1:i:116:PHE:CZ	1:i:120:ILE:HD11	2.47	0.48
1:p:227:PHE:HB2	1:q:213:LEU:HD11	1.95	0.48
1:q:123:HIS:NE2	1:q:125:GLU:HB2	2.28	0.48
1:u:93:LYS:HD3	1:u:100:ARG:HH22	1.78	0.48
1:u:306:THR:HB	1:u:334:ILE:HG22	1.95	0.48
1:y:306:THR:HB	1:y:334:ILE:HG22	1.95	0.48
1:z:208:LYS:O	1:z:212:ARG:HG3	2.13	0.48
1:0:85:ILE:HG21	1:0:126:LEU:HD21	1.94	0.48
1:4:223:SER:HB2	1:5:213:LEU:CD2	2.43	0.48
1:9:93:LYS:HD3	1:9:100:ARG:HH22	1.78	0.48
1:AB:208:LYS:O	1:AB:212:ARG:HG3	2.13	0.48
1:AD:116:PHE:CZ	1:AD:120:ILE:HD11	2.48	0.48
1:AG:213:LEU:HD23	1:AH:223:SER:HB2	1.94	0.48
1:AJ:208:LYS:O	1:AJ:212:ARG:HG3	2.13	0.48
1:AL:93:LYS:HD3	1:AL:100:ARG:HH22	1.78	0.48
1:AL:199:LEU:HD23	1:AL:203:LEU:HD23	1.95	0.48
1:AO:85:ILE:HG21	1:AO:126:LEU:HD21	1.94	0.48
1:AR:213:LEU:HD23	1:AS:223:SER:HB2	1.94	0.48
1:AS:306:THR:HB	1:AS:334:ILE:HG22	1.95	0.48
1:C:306:THR:HB	1:C:334:ILE:HG22	1.95	0.48
1:F:58:GLN:HG3	1:F:137:GLN:HB3	1.95	0.48
1:F:306:THR:HB	1:F:334:ILE:HG22	1.95	0.48
1:I:93:LYS:HD3	1:I:100:ARG:HH22	1.78	0.48
1:L:85:ILE:HG21	1:L:126:LEU:HD21	1.94	0.48
1:Q:306:THR:HB	1:Q:334:ILE:HG22	1.95	0.48
1:S:208:LYS:O	1:S:212:ARG:HG3	2.13	0.48
1:g:116:PHE:CZ	1:g:120:ILE:HD11	2.48	0.48
1:g:208:LYS:O	1:g:212:ARG:HG3	2.13	0.48
1:h:208:LYS:O	1:h:212:ARG:HG3	2.13	0.48
1:i:208:LYS:O	1:i:212:ARG:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:123:HIS:HA	1:j:358:ARG:HH12	1.77	0.48
1:p:199:LEU:HD23	1:p:203:LEU:HD23	1.95	0.48
1:q:306:THR:HB	1:q:334:ILE:HG22	1.95	0.48
1:1:93:LYS:HD3	1:1:100:ARG:HH22	1.78	0.48
1:5:58:GLN:HG3	1:5:137:GLN:HB3	1.95	0.48
1:6:208:LYS:O	1:6:212:ARG:HG3	2.13	0.48
1:7:306:THR:HB	1:7:334:ILE:HG22	1.95	0.48
1:7:347:ARG:HA	1:7:350:LYS:HZ2	1.78	0.48
1:9:347:ARG:HA	1:9:350:LYS:HZ2	1.78	0.48
1:A:93:LYS:HD3	1:A:100:ARG:HH22	1.78	0.48
1:AA:57:TYR:HA	1:AA:137:GLN:CD	2.39	0.48
1:AB:116:PHE:CZ	1:AB:120:ILE:HD11	2.47	0.48
1:AD:199:LEU:HD23	1:AD:203:LEU:HD23	1.95	0.48
1:AH:306:THR:HB	1:AH:334:ILE:HG22	1.95	0.48
1:AI:85:ILE:HG21	1:AI:126:LEU:HD21	1.94	0.48
1:AJ:58:GLN:HG3	1:AJ:137:GLN:HB3	1.95	0.48
1:AK:306:THR:HB	1:AK:334:ILE:HG22	1.95	0.48
1:AL:58:GLN:HG3	1:AL:137:GLN:HB3	1.95	0.48
1:AL:123:HIS:NE2	1:AL:125:GLU:HB2	2.28	0.48
1:AO:208:LYS:O	1:AO:212:ARG:HG3	2.13	0.48
1:AO:262:LYS:O	1:AO:266:GLN:HG2	2.14	0.48
1:AP:306:THR:HB	1:AP:334:ILE:HG22	1.95	0.48
1:AQ:93:LYS:HD3	1:AQ:100:ARG:HH22	1.78	0.48
1:AR:199:LEU:HD23	1:AR:203:LEU:HD23	1.95	0.48
1:AR:306:THR:HB	1:AR:334:ILE:HG22	1.95	0.48
1:B:116:PHE:CZ	1:B:120:ILE:HD11	2.47	0.48
1:I:199:LEU:HD23	1:I:203:LEU:HD23	1.95	0.48
1:M:85:ILE:HG21	1:M:126:LEU:HD21	1.94	0.48
1:M:262:LYS:O	1:M:266:GLN:HG2	2.14	0.48
1:M:306:THR:HB	1:M:334:ILE:HG22	1.95	0.48
1:N:208:LYS:O	1:N:212:ARG:HG3	2.13	0.48
1:O:85:ILE:HG21	1:O:126:LEU:HD21	1.94	0.48
1:P:123:HIS:NE2	1:P:125:GLU:HB2	2.28	0.48
1:P:208:LYS:O	1:P:212:ARG:HG3	2.13	0.48
1:S:116:PHE:CZ	1:S:120:ILE:HD11	2.48	0.48
1:U:208:LYS:O	1:U:212:ARG:HG3	2.13	0.48
1:U:306:THR:HB	1:U:334:ILE:HG22	1.95	0.48
1:V:208:LYS:O	1:V:212:ARG:HG3	2.13	0.48
1:W:199:LEU:HD23	1:W:203:LEU:HD23	1.95	0.48
1:W:306:THR:HB	1:W:334:ILE:HG22	1.95	0.48
1:Y:58:GLN:HG3	1:Y:137:GLN:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:93:LYS:HD3	1:a:100:ARG:HH22	1.78	0.48
1:a:123:HIS:NE2	1:a:125:GLU:HB2	2.28	0.48
1:j:123:HIS:NE2	1:j:125:GLU:HB2	2.28	0.48
1:m:58:GLN:HG3	1:m:137:GLN:HB3	1.95	0.48
1:r:306:THR:HB	1:r:334:ILE:HG22	1.95	0.48
1:s:208:LYS:O	1:s:212:ARG:HG3	2.13	0.48
1:t:306:THR:HB	1:t:334:ILE:HG22	1.95	0.48
1:w:306:THR:HB	1:w:334:ILE:HG22	1.95	0.48
1:x:93:LYS:HD3	1:x:100:ARG:HH22	1.78	0.48
1:z:123:HIS:HA	1:z:358:ARG:HH12	1.77	0.48
1:4:93:LYS:HD3	1:4:100:ARG:HH22	1.78	0.48
1:5:57:TYR:HA	1:5:137:GLN:CD	2.39	0.48
1:5:123:HIS:NE2	1:5:125:GLU:HB2	2.28	0.48
1:A:24:PRO:N	1:A:53:ASN:HD21	2.12	0.48
1:AA:85:ILE:HG21	1:AA:126:LEU:HD21	1.94	0.48
1:AA:93:LYS:HD3	1:AA:100:ARG:HH22	1.78	0.48
1:AE:58:GLN:HG3	1:AE:137:GLN:HB3	1.95	0.48
1:AF:123:HIS:NE2	1:AF:125:GLU:HB2	2.28	0.48
1:AH:58:GLN:HG3	1:AH:137:GLN:HB3	1.95	0.48
1:AI:208:LYS:O	1:AI:212:ARG:HG3	2.13	0.48
1:AJ:123:HIS:NE2	1:AJ:125:GLU:HB2	2.28	0.48
1:AK:57:TYR:HA	1:AK:137:GLN:CD	2.39	0.48
1:AP:199:LEU:HD23	1:AP:203:LEU:HD23	1.95	0.48
1:AQ:320:ARG:NH1	1:p:185:THR:HA	2.28	0.48
1:C:24:PRO:N	1:C:53:ASN:HD21	2.12	0.48
1:D:123:HIS:NE2	1:D:125:GLU:HB2	2.28	0.48
1:F:85:ILE:HG21	1:F:126:LEU:HD21	1.94	0.48
1:J:123:HIS:HA	1:J:358:ARG:HH12	1.77	0.48
1:K:223:SER:HB2	1:L:213:LEU:CD2	2.43	0.48
1:L:57:TYR:HA	1:L:137:GLN:CD	2.39	0.48
1:O:306:THR:HB	1:O:334:ILE:HG22	1.95	0.48
1:R:58:GLN:HG3	1:R:137:GLN:HB3	1.95	0.48
1:S:262:LYS:O	1:S:266:GLN:HG2	2.14	0.48
1:V:85:ILE:HG21	1:V:126:LEU:HD21	1.94	0.48
1:W:262:LYS:O	1:W:266:GLN:HG2	2.14	0.48
1:a:199:LEU:HD23	1:a:203:LEU:HD23	1.95	0.48
1:b:58:GLN:HG3	1:b:137:GLN:HB3	1.95	0.48
1:g:123:HIS:NE2	1:g:125:GLU:HB2	2.28	0.48
1:h:306:THR:HB	1:h:334:ILE:HG22	1.95	0.48
1:i:123:HIS:NE2	1:i:125:GLU:HB2	2.28	0.48
1:j:85:ILE:HG21	1:j:126:LEU:HD21	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:208:LYS:O	1:j:212:ARG:HG3	2.13	0.48
1:k:85:ILE:HG21	1:k:126:LEU:HD21	1.94	0.48
1:n:208:LYS:O	1:n:212:ARG:HG3	2.13	0.48
1:o:208:LYS:O	1:o:212:ARG:HG3	2.13	0.48
1:s:123:HIS:HA	1:s:358:ARG:HH12	1.77	0.48
1:s:199:LEU:HD23	1:s:203:LEU:HD23	1.95	0.48
1:v:306:THR:HB	1:v:334:ILE:HG22	1.95	0.48
1:x:57:TYR:HA	1:x:137:GLN:CD	2.39	0.48
1:2:208:LYS:O	1:2:212:ARG:HG3	2.13	0.48
1:3:244:LYS:HE2	1:n:58:GLN:O	2.14	0.48
1:8:57:TYR:HA	1:8:137:GLN:CD	2.39	0.48
1:8:306:THR:HB	1:8:334:ILE:HG22	1.95	0.48
1:8:347:ARG:HA	1:8:350:LYS:HZ2	1.77	0.48
1:A:199:LEU:HD23	1:A:203:LEU:HD23	1.95	0.48
1:AB:58:GLN:HG3	1:AB:137:GLN:HB3	1.95	0.48
1:AD:58:GLN:HG3	1:AD:137:GLN:HB3	1.95	0.48
1:AG:306:THR:HB	1:AG:334:ILE:HG22	1.95	0.48
1:AH:123:HIS:NE2	1:AH:125:GLU:HB2	2.28	0.48
1:AH:199:LEU:HD23	1:AH:203:LEU:HD23	1.95	0.48
1:AI:262:LYS:O	1:AI:266:GLN:HG2	2.14	0.48
1:AL:208:LYS:O	1:AL:212:ARG:HG3	2.13	0.48
1:AM:57:TYR:HA	1:AM:137:GLN:CD	2.39	0.48
1:AN:85:ILE:HG21	1:AN:126:LEU:HD21	1.94	0.48
1:AN:199:LEU:HD23	1:AN:203:LEU:HD23	1.95	0.48
1:AN:208:LYS:O	1:AN:212:ARG:HG3	2.13	0.48
1:AN:262:LYS:O	1:AN:266:GLN:HG2	2.14	0.48
1:AN:306:THR:HB	1:AN:334:ILE:HG22	1.95	0.48
1:AO:57:TYR:HA	1:AO:137:GLN:CD	2.39	0.48
1:AQ:24:PRO:N	1:AQ:53:ASN:HD21	2.12	0.48
1:B:262:LYS:O	1:B:266:GLN:HG2	2.14	0.48
1:C:262:LYS:O	1:C:266:GLN:HG2	2.14	0.48
1:F:57:TYR:HA	1:F:137:GLN:CD	2.39	0.48
1:G:85:ILE:HG21	1:G:126:LEU:HD21	1.94	0.48
1:I:57:TYR:HA	1:I:137:GLN:CD	2.39	0.48
1:J:85:ILE:HG21	1:J:126:LEU:HD21	1.94	0.48
1:J:262:LYS:O	1:J:266:GLN:HG2	2.14	0.48
1:N:58:GLN:HG3	1:N:137:GLN:HB3	1.95	0.48
1:O:262:LYS:O	1:O:266:GLN:HG2	2.14	0.48
1:R:85:ILE:HG21	1:R:126:LEU:HD21	1.94	0.48
1:T:58:GLN:HG3	1:T:137:GLN:HB3	1.95	0.48
1:W:85:ILE:HG21	1:W:126:LEU:HD21	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:116:PHE:CZ	1:W:120:ILE:HD11	2.47	0.48
1:X:85:ILE:HG21	1:X:126:LEU:HD21	1.94	0.48
1:Y:85:ILE:HG21	1:Y:126:LEU:HD21	1.94	0.48
1:Y:306:THR:HB	1:Y:334:ILE:HG22	1.95	0.48
1:b:85:ILE:HG21	1:b:126:LEU:HD21	1.94	0.48
1:c:85:ILE:HG21	1:c:126:LEU:HD21	1.94	0.48
1:e:262:LYS:O	1:e:266:GLN:HG2	2.14	0.48
1:f:306:THR:HB	1:f:334:ILE:HG22	1.95	0.48
1:g:262:LYS:O	1:g:266:GLN:HG2	2.14	0.48
1:i:58:GLN:HG3	1:i:137:GLN:HB3	1.95	0.48
1:k:93:LYS:HD3	1:k:100:ARG:HH22	1.78	0.48
1:l:123:HIS:NE2	1:l:125:GLU:HB2	2.28	0.48
1:m:262:LYS:O	1:m:266:GLN:HG2	2.14	0.48
1:n:347:ARG:HA	1:n:350:LYS:HZ2	1.78	0.48
1:o:123:HIS:NE2	1:o:125:GLU:HB2	2.28	0.48
1:p:123:HIS:NE2	1:p:125:GLU:HB2	2.28	0.48
1:w:58:GLN:HG3	1:w:137:GLN:HB3	1.95	0.48
1:w:208:LYS:O	1:w:212:ARG:HG3	2.13	0.48
1:y:93:LYS:HD3	1:y:100:ARG:HH22	1.78	0.48
1:1:58:GLN:HG3	1:1:137:GLN:HB3	1.95	0.48
1:3:57:TYR:HA	1:3:137:GLN:CD	2.39	0.48
1:AA:306:THR:HB	1:AA:334:ILE:HG22	1.95	0.48
1:AC:57:TYR:HA	1:AC:137:GLN:CD	2.39	0.48
1:AF:57:TYR:HA	1:AF:137:GLN:CD	2.39	0.48
1:AF:262:LYS:O	1:AF:266:GLN:HG2	2.14	0.48
1:AF:306:THR:HB	1:AF:334:ILE:HG22	1.95	0.48
1:AH:208:LYS:O	1:AH:212:ARG:HG3	2.13	0.48
1:AH:262:LYS:O	1:AH:266:GLN:HG2	2.14	0.48
1:AK:85:ILE:HG21	1:AK:126:LEU:HD21	1.94	0.48
1:AN:24:PRO:N	1:AN:53:ASN:HD21	2.12	0.48
1:AN:57:TYR:HA	1:AN:137:GLN:CD	2.39	0.48
1:AN:123:HIS:NE2	1:AN:125:GLU:HB2	2.28	0.48
1:AO:58:GLN:HG3	1:AO:137:GLN:HB3	1.95	0.48
1:AR:262:LYS:O	1:AR:266:GLN:HG2	2.14	0.48
1:D:93:LYS:HD3	1:D:100:ARG:HH22	1.78	0.48
1:D:199:LEU:HD23	1:D:203:LEU:HD23	1.95	0.48
1:D:262:LYS:O	1:D:266:GLN:HG2	2.14	0.48
1:E:208:LYS:O	1:E:212:ARG:HG3	2.13	0.48
1:J:52:THR:HG21	1:J:57:TYR:CG	2.49	0.48
1:N:306:THR:HB	1:N:334:ILE:HG22	1.95	0.48
1:R:24:PRO:N	1:R:53:ASN:HD21	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:57:TYR:HA	1:U:137:GLN:CD	2.39	0.48
1:X:123:HIS:NE2	1:X:125:GLU:HB2	2.28	0.48
1:Z:57:TYR:HA	1:Z:137:GLN:CD	2.39	0.48
1:Z:58:GLN:HG3	1:Z:137:GLN:HB3	1.95	0.48
1:a:262:LYS:O	1:a:266:GLN:HG2	2.14	0.48
1:b:123:HIS:NE2	1:b:125:GLU:HB2	2.28	0.48
1:c:93:LYS:HD3	1:c:100:ARG:HH22	1.78	0.48
1:d:24:PRO:N	1:d:53:ASN:HD21	2.12	0.48
1:f:57:TYR:HA	1:f:137:GLN:CD	2.39	0.48
1:i:262:LYS:O	1:i:266:GLN:HG2	2.14	0.48
1:k:262:LYS:O	1:k:266:GLN:HG2	2.14	0.48
1:l:24:PRO:N	1:l:53:ASN:HD21	2.12	0.48
1:l:213:LEU:HD23	1:m:223:SER:HB2	1.95	0.48
1:r:58:GLN:HG3	1:r:137:GLN:HB3	1.95	0.48
1:r:262:LYS:O	1:r:266:GLN:HG2	2.14	0.48
1:s:24:PRO:N	1:s:53:ASN:HD21	2.12	0.48
1:s:57:TYR:HA	1:s:137:GLN:CD	2.39	0.48
1:t:208:LYS:O	1:t:212:ARG:HG3	2.13	0.48
1:u:57:TYR:HA	1:u:137:GLN:CD	2.39	0.48
1:u:208:LYS:O	1:u:212:ARG:HG3	2.13	0.48
1:w:57:TYR:HA	1:w:137:GLN:CD	2.39	0.48
1:z:57:TYR:HA	1:z:137:GLN:CD	2.39	0.48
1:z:262:LYS:O	1:z:266:GLN:HG2	2.14	0.48
1:0:57:TYR:HA	1:0:137:GLN:CD	2.39	0.48
1:9:123:HIS:NE2	1:9:125:GLU:HB2	2.28	0.48
1:A:57:TYR:HA	1:A:137:GLN:CD	2.39	0.48
1:AB:52:THR:HG21	1:AB:57:TYR:CG	2.49	0.48
1:AD:262:LYS:O	1:AD:266:GLN:HG2	2.14	0.48
1:AE:57:TYR:HA	1:AE:137:GLN:CD	2.39	0.48
1:AI:57:TYR:HA	1:AI:137:GLN:CD	2.39	0.48
1:AJ:93:LYS:HD3	1:AJ:100:ARG:HH22	1.78	0.48
1:AJ:306:THR:HB	1:AJ:334:ILE:HG22	1.95	0.48
1:AL:52:THR:HG21	1:AL:57:TYR:CG	2.49	0.48
1:AL:306:THR:HB	1:AL:334:ILE:HG22	1.95	0.48
1:AM:262:LYS:O	1:AM:266:GLN:HG2	2.14	0.48
1:AP:262:LYS:O	1:AP:266:GLN:HG2	2.14	0.48
1:AQ:52:THR:HG21	1:AQ:57:TYR:CG	2.49	0.48
1:AQ:85:ILE:HG21	1:AQ:126:LEU:HD21	1.94	0.48
1:AS:93:LYS:HD3	1:AS:100:ARG:HH22	1.78	0.48
1:B:52:THR:HG21	1:B:57:TYR:CG	2.49	0.48
1:B:57:TYR:HA	1:B:137:GLN:CD	2.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:24:PRO:N	1:F:53:ASN:HD21	2.12	0.48
1:G:57:TYR:HA	1:G:137:GLN:CD	2.39	0.48
1:H:262:LYS:O	1:H:266:GLN:HG2	2.14	0.48
1:I:24:PRO:N	1:I:53:ASN:HD21	2.12	0.48
1:L:24:PRO:N	1:L:53:ASN:HD21	2.12	0.48
1:L:262:LYS:O	1:L:266:GLN:HG2	2.14	0.48
1:M:208:LYS:O	1:M:212:ARG:HG3	2.13	0.48
1:N:123:HIS:NE2	1:N:125:GLU:HB2	2.28	0.48
1:P:93:LYS:HD3	1:P:100:ARG:HH22	1.78	0.48
1:S:57:TYR:HA	1:S:137:GLN:CD	2.39	0.48
1:V:24:PRO:N	1:V:53:ASN:HD21	2.12	0.48
1:V:52:THR:HG21	1:V:57:TYR:CG	2.49	0.48
1:X:24:PRO:N	1:X:53:ASN:HD21	2.12	0.48
1:X:52:THR:HG21	1:X:57:TYR:CG	2.49	0.48
1:Y:262:LYS:O	1:Y:266:GLN:HG2	2.14	0.48
1:b:24:PRO:N	1:b:53:ASN:HD21	2.12	0.48
1:b:52:THR:HG21	1:b:57:TYR:CG	2.49	0.48
1:b:208:LYS:O	1:b:212:ARG:HG3	2.13	0.48
1:d:262:LYS:O	1:d:266:GLN:HG2	2.14	0.48
1:d:306:THR:HB	1:d:334:ILE:HG22	1.95	0.48
1:e:52:THR:HG21	1:e:57:TYR:CG	2.49	0.48
1:e:93:LYS:HD3	1:e:100:ARG:HH22	1.78	0.48
1:f:52:THR:HG21	1:f:57:TYR:CG	2.49	0.48
1:j:24:PRO:N	1:j:53:ASN:HD21	2.12	0.48
1:j:52:THR:HG21	1:j:57:TYR:CG	2.49	0.48
1:k:57:TYR:HA	1:k:137:GLN:CD	2.39	0.48
1:l:57:TYR:HA	1:l:137:GLN:CD	2.39	0.48
1:l:306:THR:HB	1:l:334:ILE:HG22	1.95	0.48
1:n:306:THR:HB	1:n:334:ILE:HG22	1.95	0.48
1:o:262:LYS:O	1:o:266:GLN:HG2	2.14	0.48
1:p:57:TYR:HA	1:p:137:GLN:CD	2.39	0.48
1:q:24:PRO:N	1:q:53:ASN:HD21	2.12	0.48
1:q:262:LYS:O	1:q:266:GLN:HG2	2.14	0.48
1:r:24:PRO:N	1:r:53:ASN:HD21	2.12	0.48
1:s:306:THR:HB	1:s:334:ILE:HG22	1.95	0.48
1:t:57:TYR:HA	1:t:137:GLN:CD	2.39	0.48
1:w:123:HIS:NE2	1:w:125:GLU:HB2	2.28	0.48
1:z:306:THR:HB	1:z:334:ILE:HG22	1.95	0.48
1:1:52:THR:HG21	1:1:57:TYR:CG	2.49	0.48
1:2:306:THR:HB	1:2:334:ILE:HG22	1.95	0.48
1:3:208:LYS:O	1:3:212:ARG:HG3	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:57:TYR:HA	1:6:137:GLN:CD	2.39	0.48
1:6:306:THR:HB	1:6:334:ILE:HG22	1.95	0.48
1:7:57:TYR:HA	1:7:137:GLN:CD	2.39	0.48
1:A:262:LYS:O	1:A:266:GLN:HG2	2.14	0.48
1:AB:262:LYS:O	1:AB:266:GLN:HG2	2.14	0.48
1:AD:24:PRO:N	1:AD:53:ASN:HD21	2.12	0.48
1:AE:52:THR:HG21	1:AE:57:TYR:CG	2.49	0.48
1:AJ:52:THR:HG21	1:AJ:57:TYR:CG	2.49	0.48
1:AM:24:PRO:N	1:AM:53:ASN:HD21	2.12	0.48
1:AO:123:HIS:NE2	1:AO:125:GLU:HB2	2.28	0.48
1:AQ:58:GLN:HG3	1:AQ:137:GLN:HB3	1.95	0.48
1:G:24:PRO:N	1:G:53:ASN:HD21	2.12	0.48
1:H:85:ILE:HG21	1:H:126:LEU:HD21	1.94	0.48
1:K:57:TYR:HA	1:K:137:GLN:CD	2.39	0.48
1:N:93:LYS:HD3	1:N:100:ARG:HH22	1.78	0.48
1:R:57:TYR:HA	1:R:137:GLN:CD	2.39	0.48
1:T:52:THR:HG21	1:T:57:TYR:CG	2.49	0.48
1:U:52:THR:HG21	1:U:57:TYR:CG	2.49	0.48
1:X:208:LYS:O	1:X:212:ARG:HG3	2.13	0.48
1:Z:52:THR:HG21	1:Z:57:TYR:CG	2.49	0.48
1:c:58:GLN:HG3	1:c:137:GLN:HB3	1.95	0.48
1:d:52:THR:HG21	1:d:57:TYR:CG	2.49	0.48
1:d:57:TYR:HA	1:d:137:GLN:CD	2.39	0.48
1:g:93:LYS:HD3	1:g:100:ARG:HH22	1.78	0.48
1:h:347:ARG:HA	1:h:350:LYS:HZ2	1.78	0.48
1:j:57:TYR:HA	1:j:137:GLN:CD	2.39	0.48
1:m:57:TYR:HA	1:m:137:GLN:CD	2.39	0.48
1:m:93:LYS:HD3	1:m:100:ARG:HH22	1.78	0.48
1:o:57:TYR:HA	1:o:137:GLN:CD	2.39	0.48
1:p:24:PRO:N	1:p:53:ASN:HD21	2.12	0.48
1:p:262:LYS:O	1:p:266:GLN:HG2	2.14	0.48
1:q:57:TYR:HA	1:q:137:GLN:CD	2.39	0.48
1:v:262:LYS:O	1:v:266:GLN:HG2	2.14	0.48
1:x:262:LYS:O	1:x:266:GLN:HG2	2.14	0.48
1:x:306:THR:HB	1:x:334:ILE:HG22	1.95	0.48
1:y:52:THR:HG21	1:y:57:TYR:CG	2.49	0.48
1:3:123:HIS:NE2	1:3:125:GLU:HB2	2.28	0.48
1:4:52:THR:HG21	1:4:57:TYR:CG	2.49	0.48
1:4:208:LYS:O	1:4:212:ARG:HG3	2.13	0.48
1:8:262:LYS:O	1:8:266:GLN:HG2	2.14	0.48
1:9:262:LYS:O	1:9:266:GLN:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:52:THR:HG21	1:A:57:TYR:CG	2.49	0.48
1:AB:57:TYR:HA	1:AB:137:GLN:CD	2.39	0.48
1:AB:199:LEU:HD23	1:AB:203:LEU:HD23	1.95	0.48
1:AB:306:THR:HB	1:AB:334:ILE:HG22	1.95	0.48
1:AC:52:THR:HG21	1:AC:57:TYR:CG	2.49	0.48
1:AE:24:PRO:N	1:AE:53:ASN:HD21	2.12	0.48
1:AG:58:GLN:HG3	1:AG:137:GLN:HB3	1.95	0.48
1:AK:262:LYS:O	1:AK:266:GLN:HG2	2.14	0.48
1:AL:57:TYR:HA	1:AL:137:GLN:CD	2.39	0.48
1:AL:262:LYS:O	1:AL:266:GLN:HG2	2.14	0.48
1:AS:57:TYR:HA	1:AS:137:GLN:CD	2.39	0.48
1:C:57:TYR:HA	1:C:137:GLN:CD	2.39	0.48
1:D:52:THR:HG21	1:D:57:TYR:CG	2.49	0.48
1:D:57:TYR:HA	1:D:137:GLN:CD	2.39	0.48
1:E:24:PRO:N	1:E:53:ASN:HD21	2.12	0.48
1:H:123:HIS:NE2	1:H:125:GLU:HB2	2.28	0.48
1:H:199:LEU:HD23	1:H:203:LEU:HD23	1.95	0.48
1:L:93:LYS:HD3	1:L:100:ARG:HH22	1.78	0.48
1:Q:262:LYS:O	1:Q:266:GLN:HG2	2.14	0.48
1:R:52:THR:HG21	1:R:57:TYR:CG	2.49	0.48
1:R:93:LYS:HD3	1:R:100:ARG:HH22	1.78	0.48
1:T:123:HIS:NE2	1:T:125:GLU:HB2	2.28	0.48
1:W:57:TYR:HA	1:W:137:GLN:CD	2.39	0.48
1:b:262:LYS:O	1:b:266:GLN:HG2	2.14	0.48
1:c:123:HIS:NE2	1:c:125:GLU:HB2	2.28	0.48
1:c:262:LYS:O	1:c:266:GLN:HG2	2.14	0.48
1:j:262:LYS:O	1:j:266:GLN:HG2	2.14	0.48
1:l:262:LYS:O	1:l:266:GLN:HG2	2.14	0.48
1:o:58:GLN:HG3	1:o:137:GLN:HB3	1.95	0.48
1:q:58:GLN:HG3	1:q:137:GLN:HB3	1.95	0.48
1:r:52:THR:HG21	1:r:57:TYR:CG	2.49	0.48
1:r:199:LEU:HD23	1:r:203:LEU:HD23	1.95	0.48
1:s:58:GLN:HG3	1:s:137:GLN:HB3	1.95	0.48
1:t:24:PRO:N	1:t:53:ASN:HD21	2.12	0.48
1:t:52:THR:HG21	1:t:57:TYR:CG	2.49	0.48
1:t:262:LYS:O	1:t:266:GLN:HG2	2.14	0.48
1:v:57:TYR:HA	1:v:137:GLN:CD	2.39	0.48
1:x:24:PRO:N	1:x:53:ASN:HD21	2.12	0.48
1:y:58:GLN:HG3	1:y:137:GLN:HB3	1.95	0.48
1:0:199:LEU:HD23	1:0:203:LEU:HD23	1.95	0.47
1:3:262:LYS:O	1:3:266:GLN:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:58:GLN:HG3	1:4:137:GLN:HB3	1.95	0.47
1:6:24:PRO:N	1:6:53:ASN:HD21	2.12	0.47
1:6:262:LYS:O	1:6:266:GLN:HG2	2.14	0.47
1:7:24:PRO:N	1:7:53:ASN:HD21	2.12	0.47
1:7:123:HIS:NE2	1:7:125:GLU:HB2	2.28	0.47
1:8:24:PRO:N	1:8:53:ASN:HD21	2.12	0.47
1:8:89:PRO:HB2	1:8:280:ARG:NH1	2.29	0.47
1:AC:58:GLN:HG3	1:AC:137:GLN:HB3	1.95	0.47
1:AD:52:THR:HG21	1:AD:57:TYR:CG	2.49	0.47
1:AD:123:HIS:NE2	1:AD:125:GLU:HB2	2.28	0.47
1:AD:208:LYS:O	1:AD:212:ARG:HG3	2.13	0.47
1:AE:208:LYS:O	1:AE:212:ARG:HG3	2.13	0.47
1:AH:24:PRO:N	1:AH:53:ASN:HD21	2.12	0.47
1:AL:24:PRO:N	1:AL:53:ASN:HD21	2.12	0.47
1:AM:199:LEU:HD23	1:AM:203:LEU:HD23	1.95	0.47
1:AN:52:THR:HG21	1:AN:57:TYR:CG	2.49	0.47
1:AP:24:PRO:N	1:AP:53:ASN:HD21	2.12	0.47
1:AP:208:LYS:O	1:AP:212:ARG:HG3	2.13	0.47
1:E:57:TYR:HA	1:E:137:GLN:CD	2.39	0.47
1:F:93:LYS:HD3	1:F:100:ARG:HH22	1.78	0.47
1:F:262:LYS:O	1:F:266:GLN:HG2	2.14	0.47
1:G:52:THR:HG21	1:G:57:TYR:CG	2.49	0.47
1:H:57:TYR:HA	1:H:137:GLN:CD	2.39	0.47
1:I:262:LYS:O	1:I:266:GLN:HG2	2.14	0.47
1:J:199:LEU:HD23	1:J:203:LEU:HD23	1.95	0.47
1:K:24:PRO:N	1:K:53:ASN:HD21	2.12	0.47
1:K:52:THR:HG21	1:K:57:TYR:CG	2.49	0.47
1:L:52:THR:HG21	1:L:57:TYR:CG	2.49	0.47
1:M:57:TYR:HA	1:M:137:GLN:CD	2.39	0.47
1:Q:24:PRO:N	1:Q:53:ASN:HD21	2.12	0.47
1:S:306:THR:HB	1:S:334:ILE:HG22	1.95	0.47
1:T:57:TYR:HA	1:T:137:GLN:CD	2.39	0.47
1:U:123:HIS:NE2	1:U:125:GLU:HB2	2.28	0.47
1:V:89:PRO:HB2	1:V:280:ARG:NH1	2.29	0.47
1:W:123:HIS:NE2	1:W:125:GLU:HB2	2.28	0.47
1:X:262:LYS:O	1:X:266:GLN:HG2	2.14	0.47
1:Z:213:LEU:HD23	1:a:223:SER:HB2	1.94	0.47
1:Z:306:THR:HB	1:Z:334:ILE:HG22	1.95	0.47
1:c:57:TYR:HA	1:c:137:GLN:CD	2.39	0.47
1:g:306:THR:HB	1:g:334:ILE:HG22	1.95	0.47
1:h:57:TYR:HA	1:h:137:GLN:CD	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:89:PRO:HB2	1:i:280:ARG:NH1	2.30	0.47
1:j:306:THR:HB	1:j:334:ILE:HG22	1.95	0.47
1:k:123:HIS:NE2	1:k:125:GLU:HB2	2.28	0.47
1:l:52:THR:HG21	1:l:57:TYR:CG	2.49	0.47
1:l:208:LYS:O	1:l:212:ARG:HG3	2.13	0.47
1:o:306:THR:HB	1:o:334:ILE:HG22	1.95	0.47
1:p:52:THR:HG21	1:p:57:TYR:CG	2.49	0.47
1:r:123:HIS:NE2	1:r:125:GLU:HB2	2.28	0.47
1:r:208:LYS:O	1:r:212:ARG:HG3	2.13	0.47
1:r:223:SER:HB2	1:s:213:LEU:CD2	2.43	0.47
1:t:89:PRO:HB2	1:t:280:ARG:NH1	2.29	0.47
1:u:262:LYS:O	1:u:266:GLN:HG2	2.14	0.47
1:v:52:THR:HG21	1:v:57:TYR:CG	2.49	0.47
1:x:89:PRO:HB2	1:x:280:ARG:NH1	2.29	0.47
1:1:123:HIS:NE2	1:1:125:GLU:HB2	2.28	0.47
1:2:58:GLN:HG3	1:2:137:GLN:HB3	1.95	0.47
1:2:89:PRO:HB2	1:2:280:ARG:NH1	2.29	0.47
1:2:262:LYS:O	1:2:266:GLN:HG2	2.14	0.47
1:3:58:GLN:HG3	1:3:137:GLN:HB3	1.95	0.47
1:3:306:THR:HB	1:3:334:ILE:HG22	1.95	0.47
1:4:89:PRO:HB2	1:4:280:ARG:NH1	2.30	0.47
1:4:199:LEU:HD23	1:4:203:LEU:HD23	1.95	0.47
1:4:262:LYS:O	1:4:266:GLN:HG2	2.14	0.47
1:5:208:LYS:O	1:5:212:ARG:HG3	2.13	0.47
1:5:306:THR:HB	1:5:334:ILE:HG22	1.95	0.47
1:7:262:LYS:O	1:7:266:GLN:HG2	2.14	0.47
1:9:57:TYR:HA	1:9:137:GLN:CD	2.39	0.47
1:9:58:GLN:HG3	1:9:137:GLN:HB3	1.95	0.47
1:A:302:LEU:HB3	1:A:338:SER:OG	2.15	0.47
1:AB:24:PRO:N	1:AB:53:ASN:HD21	2.12	0.47
1:AC:24:PRO:N	1:AC:53:ASN:HD21	2.12	0.47
1:AC:208:LYS:O	1:AC:212:ARG:HG3	2.13	0.47
1:AG:57:TYR:HA	1:AG:137:GLN:CD	2.39	0.47
1:AG:208:LYS:O	1:AG:212:ARG:HG3	2.13	0.47
1:AH:89:PRO:HB2	1:AH:280:ARG:NH1	2.30	0.47
1:AJ:24:PRO:N	1:AJ:53:ASN:HD21	2.12	0.47
1:AR:57:TYR:HA	1:AR:137:GLN:CD	2.39	0.47
1:B:24:PRO:N	1:B:53:ASN:HD21	2.12	0.47
1:G:262:LYS:O	1:G:266:GLN:HG2	2.14	0.47
1:J:24:PRO:N	1:J:53:ASN:HD21	2.12	0.47
1:N:89:PRO:HB2	1:N:280:ARG:NH1	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:89:PRO:HB2	1:O:280:ARG:NH1	2.30	0.47
1:O:208:LYS:O	1:O:212:ARG:HG3	2.13	0.47
1:P:306:THR:HB	1:P:334:ILE:HG22	1.95	0.47
1:Q:52:THR:HG21	1:Q:57:TYR:CG	2.49	0.47
1:Q:208:LYS:O	1:Q:212:ARG:HG3	2.13	0.47
1:R:89:PRO:HB2	1:R:280:ARG:NH1	2.29	0.47
1:X:89:PRO:HB2	1:X:280:ARG:NH1	2.30	0.47
1:X:372:HIS:HA	1:Y:396:LEU:HD13	1.95	0.47
1:Y:123:HIS:NE2	1:Y:125:GLU:HB2	2.28	0.47
1:Z:89:PRO:HB2	1:Z:280:ARG:NH1	2.30	0.47
1:a:89:PRO:HB2	1:a:280:ARG:NH1	2.30	0.47
1:c:306:THR:HB	1:c:334:ILE:HG22	1.95	0.47
1:f:58:GLN:HG3	1:f:137:GLN:HB3	1.95	0.47
1:f:89:PRO:HB2	1:f:280:ARG:NH1	2.30	0.47
1:g:57:TYR:HA	1:g:137:GLN:CD	2.39	0.47
1:g:89:PRO:HB2	1:g:280:ARG:NH1	2.30	0.47
1:h:52:THR:HG21	1:h:57:TYR:CG	2.49	0.47
1:i:57:TYR:HA	1:i:137:GLN:CD	2.39	0.47
1:j:58:GLN:HG3	1:j:137:GLN:HB3	1.95	0.47
1:m:24:PRO:N	1:m:53:ASN:HD21	2.12	0.47
1:m:52:THR:HG21	1:m:57:TYR:CG	2.49	0.47
1:n:58:GLN:HG3	1:n:137:GLN:HB3	1.95	0.47
1:n:262:LYS:O	1:n:266:GLN:HG2	2.14	0.47
1:u:123:HIS:NE2	1:u:125:GLU:HB2	2.28	0.47
1:v:24:PRO:N	1:v:53:ASN:HD21	2.12	0.47
1:y:123:HIS:NE2	1:y:125:GLU:HB2	2.28	0.47
1:y:262:LYS:O	1:y:266:GLN:HG2	2.14	0.47
1:0:306:THR:HB	1:0:334:ILE:HG22	1.95	0.47
1:1:262:LYS:O	1:1:266:GLN:HG2	2.14	0.47
1:5:262:LYS:O	1:5:266:GLN:HG2	2.14	0.47
1:7:199:LEU:HD23	1:7:203:LEU:HD23	1.95	0.47
1:AF:58:GLN:HG3	1:AF:137:GLN:HB3	1.95	0.47
1:AF:208:LYS:O	1:AF:212:ARG:HG3	2.13	0.47
1:AH:52:THR:HG21	1:AH:57:TYR:CG	2.49	0.47
1:AI:302:LEU:HB3	1:AI:338:SER:OG	2.15	0.47
1:AJ:89:PRO:HB2	1:AJ:280:ARG:NH1	2.30	0.47
1:AJ:262:LYS:O	1:AJ:266:GLN:HG2	2.14	0.47
1:AK:302:LEU:HB3	1:AK:338:SER:OG	2.15	0.47
1:AN:302:LEU:HB3	1:AN:338:SER:OG	2.15	0.47
1:AO:306:THR:HB	1:AO:334:ILE:HG22	1.95	0.47
1:AP:52:THR:HG21	1:AP:57:TYR:CG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AQ:89:PRO:HB2	1:AQ:280:ARG:NH1	2.30	0.47
1:AR:24:PRO:N	1:AR:53:ASN:HD21	2.12	0.47
1:AS:123:HIS:NE2	1:AS:125:GLU:HB2	2.28	0.47
1:C:52:THR:HG21	1:C:57:TYR:CG	2.49	0.47
1:C:123:HIS:NE2	1:C:125:GLU:HB2	2.28	0.47
1:E:52:THR:HG21	1:E:57:TYR:CG	2.49	0.47
1:F:52:THR:HG21	1:F:57:TYR:CG	2.49	0.47
1:G:89:PRO:HB2	1:G:280:ARG:NH1	2.30	0.47
1:H:302:LEU:HB3	1:H:338:SER:OG	2.15	0.47
1:J:57:TYR:HA	1:J:137:GLN:CD	2.39	0.47
1:J:302:LEU:HB3	1:J:338:SER:OG	2.15	0.47
1:N:24:PRO:N	1:N:53:ASN:HD21	2.12	0.47
1:N:52:THR:HG21	1:N:57:TYR:CG	2.49	0.47
1:O:302:LEU:HB3	1:O:338:SER:OG	2.15	0.47
1:P:89:PRO:HB2	1:P:280:ARG:NH1	2.30	0.47
1:Q:302:LEU:HB3	1:Q:338:SER:OG	2.15	0.47
1:S:89:PRO:HB2	1:S:280:ARG:NH1	2.29	0.47
1:T:89:PRO:HB2	1:T:280:ARG:NH1	2.29	0.47
1:U:89:PRO:HB2	1:U:280:ARG:NH1	2.30	0.47
1:V:57:TYR:HA	1:V:137:GLN:CD	2.39	0.47
1:W:89:PRO:HB2	1:W:280:ARG:NH1	2.30	0.47
1:Y:89:PRO:HB2	1:Y:280:ARG:NH1	2.30	0.47
1:e:302:LEU:HB3	1:e:338:SER:OG	2.15	0.47
1:g:302:LEU:HB3	1:g:338:SER:OG	2.15	0.47
1:i:302:LEU:HB3	1:i:338:SER:OG	2.15	0.47
1:i:306:THR:HB	1:i:334:ILE:HG22	1.95	0.47
1:k:58:GLN:HG3	1:k:137:GLN:HB3	1.95	0.47
1:o:89:PRO:HB2	1:o:280:ARG:NH1	2.30	0.47
1:o:302:LEU:HB3	1:o:338:SER:OG	2.15	0.47
1:p:208:LYS:O	1:p:212:ARG:HG3	2.13	0.47
1:q:302:LEU:HB3	1:q:338:SER:OG	2.15	0.47
1:r:302:LEU:HB3	1:r:338:SER:OG	2.15	0.47
1:s:262:LYS:O	1:s:266:GLN:HG2	2.14	0.47
1:s:302:LEU:HB3	1:s:338:SER:OG	2.15	0.47
1:u:52:THR:HG21	1:u:57:TYR:CG	2.49	0.47
1:u:58:GLN:HG3	1:u:137:GLN:HB3	1.95	0.47
1:w:93:LYS:HD3	1:w:100:ARG:HH22	1.78	0.47
1:w:262:LYS:O	1:w:266:GLN:HG2	2.14	0.47
1:z:302:LEU:HB3	1:z:338:SER:OG	2.15	0.47
1:0:89:PRO:HB2	1:0:280:ARG:NH1	2.29	0.47
1:1:57:TYR:HA	1:1:137:GLN:CD	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:57:TYR:HA	1:4:137:GLN:CD	2.39	0.47
1:9:52:THR:HG21	1:9:57:TYR:CG	2.49	0.47
1:A:123:HIS:NE2	1:A:125:GLU:HB2	2.28	0.47
1:AA:89:PRO:HB2	1:AA:280:ARG:NH1	2.29	0.47
1:AB:302:LEU:HB3	1:AB:338:SER:OG	2.15	0.47
1:AD:89:PRO:HB2	1:AD:280:ARG:NH1	2.30	0.47
1:AE:89:PRO:HB2	1:AE:280:ARG:NH1	2.30	0.47
1:AE:262:LYS:O	1:AE:266:GLN:HG2	2.14	0.47
1:AG:24:PRO:N	1:AG:53:ASN:HD21	2.12	0.47
1:AG:52:THR:HG21	1:AG:57:TYR:CG	2.49	0.47
1:AG:89:PRO:HB2	1:AG:280:ARG:NH1	2.29	0.47
1:AL:302:LEU:HB3	1:AL:338:SER:OG	2.15	0.47
1:AO:52:THR:HG21	1:AO:57:TYR:CG	2.49	0.47
1:AP:89:PRO:HB2	1:AP:280:ARG:NH1	2.30	0.47
1:AP:302:LEU:HB3	1:AP:338:SER:OG	2.15	0.47
1:F:302:LEU:HB3	1:F:338:SER:OG	2.15	0.47
1:F:347:ARG:HA	1:F:350:LYS:HZ2	1.79	0.47
1:H:24:PRO:N	1:H:53:ASN:HD21	2.12	0.47
1:I:52:THR:HG21	1:I:57:TYR:CG	2.49	0.47
1:J:306:THR:HB	1:J:334:ILE:HG22	1.95	0.47
1:K:262:LYS:O	1:K:266:GLN:HG2	2.14	0.47
1:L:302:LEU:HB3	1:L:338:SER:OG	2.15	0.47
1:M:89:PRO:HB2	1:M:280:ARG:NH1	2.30	0.47
1:M:302:LEU:HB3	1:M:338:SER:OG	2.15	0.47
1:O:57:TYR:HA	1:O:137:GLN:CD	2.39	0.47
1:P:57:TYR:HA	1:P:137:GLN:CD	2.39	0.47
1:Q:89:PRO:HB2	1:Q:280:ARG:NH1	2.30	0.47
1:S:52:THR:HG21	1:S:57:TYR:CG	2.49	0.47
1:S:302:LEU:HB3	1:S:338:SER:OG	2.15	0.47
1:U:24:PRO:N	1:U:53:ASN:HD21	2.12	0.47
1:X:302:LEU:HB3	1:X:338:SER:OG	2.15	0.47
1:Y:302:LEU:HB3	1:Y:338:SER:OG	2.15	0.47
1:a:24:PRO:N	1:a:53:ASN:HD21	2.12	0.47
1:a:306:THR:HB	1:a:334:ILE:HG22	1.95	0.47
1:b:89:PRO:HB2	1:b:280:ARG:NH1	2.30	0.47
1:b:213:LEU:HD23	1:c:223:SER:HB2	1.96	0.47
1:c:89:PRO:HB2	1:c:280:ARG:NH1	2.30	0.47
1:d:89:PRO:HB2	1:d:280:ARG:NH1	2.29	0.47
1:g:24:PRO:N	1:g:53:ASN:HD21	2.12	0.47
1:j:302:LEU:HB3	1:j:338:SER:OG	2.15	0.47
1:k:89:PRO:HB2	1:k:280:ARG:NH1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:89:PRO:HB2	1:l:280:ARG:NH1	2.30	0.47
1:m:89:PRO:HB2	1:m:280:ARG:NH1	2.30	0.47
1:r:57:TYR:HA	1:r:137:GLN:CD	2.39	0.47
1:u:24:PRO:N	1:u:53:ASN:HD21	2.12	0.47
1:v:89:PRO:HB2	1:v:280:ARG:NH1	2.30	0.47
1:y:57:TYR:HA	1:y:137:GLN:CD	2.39	0.47
1:z:24:PRO:N	1:z:53:ASN:HD21	2.12	0.47
1:0:93:LYS:HD3	1:0:100:ARG:HH22	1.78	0.47
1:0:262:LYS:O	1:0:266:GLN:HG2	2.14	0.47
1:2:24:PRO:N	1:2:53:ASN:HD21	2.12	0.47
1:2:52:THR:HG21	1:2:57:TYR:CG	2.49	0.47
1:2:89:PRO:HD3	1:2:281:TYR:HD1	1.80	0.47
1:6:89:PRO:HB2	1:6:280:ARG:NH1	2.30	0.47
1:A:132:LEU:O	1:A:136:LEU:HG	2.15	0.47
1:AA:52:THR:HG21	1:AA:57:TYR:CG	2.49	0.47
1:AA:262:LYS:O	1:AA:266:GLN:HG2	2.14	0.47
1:AD:57:TYR:HA	1:AD:137:GLN:CD	2.39	0.47
1:AF:52:THR:HG21	1:AF:57:TYR:CG	2.49	0.47
1:AF:302:LEU:HB3	1:AF:338:SER:OG	2.15	0.47
1:AL:89:PRO:HD3	1:AL:281:TYR:HD1	1.80	0.47
1:AM:89:PRO:HD3	1:AM:281:TYR:HD1	1.80	0.47
1:AN:58:GLN:HG3	1:AN:137:GLN:HB3	1.95	0.47
1:AR:52:THR:HG21	1:AR:57:TYR:CG	2.49	0.47
1:AR:302:LEU:HB3	1:AR:338:SER:OG	2.15	0.47
1:AS:89:PRO:HB2	1:AS:280:ARG:NH1	2.29	0.47
1:B:132:LEU:O	1:B:136:LEU:HG	2.15	0.47
1:C:89:PRO:HB2	1:C:280:ARG:NH1	2.29	0.47
1:C:302:LEU:HB3	1:C:338:SER:OG	2.15	0.47
1:E:262:LYS:O	1:E:266:GLN:HG2	2.14	0.47
1:E:302:LEU:HB3	1:E:338:SER:OG	2.15	0.47
1:G:306:THR:HB	1:G:334:ILE:HG22	1.95	0.47
1:H:89:PRO:HD3	1:H:281:TYR:HD1	1.80	0.47
1:H:89:PRO:HB2	1:H:280:ARG:NH1	2.29	0.47
1:J:89:PRO:HD3	1:J:281:TYR:HD1	1.80	0.47
1:K:89:PRO:HB2	1:K:280:ARG:NH1	2.30	0.47
1:P:24:PRO:N	1:P:53:ASN:HD21	2.12	0.47
1:R:262:LYS:O	1:R:266:GLN:HG2	2.14	0.47
1:W:302:LEU:HB3	1:W:338:SER:OG	2.15	0.47
1:Z:262:LYS:O	1:Z:266:GLN:HG2	2.14	0.47
1:a:57:TYR:HA	1:a:137:GLN:CD	2.39	0.47
1:b:57:TYR:HA	1:b:137:GLN:CD	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:306:THR:HB	1:b:334:ILE:HG22	1.95	0.47
1:c:52:THR:HG21	1:c:57:TYR:CG	2.49	0.47
1:c:302:LEU:HB3	1:c:338:SER:OG	2.15	0.47
1:d:123:HIS:NE2	1:d:125:GLU:HB2	2.28	0.47
1:e:57:TYR:HA	1:e:137:GLN:CD	2.39	0.47
1:e:89:PRO:HB2	1:e:280:ARG:NH1	2.30	0.47
1:h:58:GLN:HG3	1:h:137:GLN:HB3	1.95	0.47
1:h:89:PRO:HB2	1:h:280:ARG:NH1	2.30	0.47
1:l:89:PRO:HD3	1:l:281:TYR:HD1	1.80	0.47
1:n:57:TYR:HA	1:n:137:GLN:CD	2.39	0.47
1:p:89:PRO:HB2	1:p:280:ARG:NH1	2.29	0.47
1:p:306:THR:HB	1:p:334:ILE:HG22	1.95	0.47
1:s:52:THR:HG21	1:s:57:TYR:CG	2.49	0.47
1:x:302:LEU:HB3	1:x:338:SER:OG	2.15	0.47
1:2:57:TYR:HA	1:2:137:GLN:CD	2.39	0.47
1:2:302:LEU:HB3	1:2:338:SER:OG	2.15	0.47
1:4:302:LEU:HB3	1:4:338:SER:OG	2.15	0.47
1:7:89:PRO:HB2	1:7:280:ARG:NH1	2.30	0.47
1:8:307:LYS:O	1:8:311:ILE:HG12	2.15	0.47
1:9:307:LYS:O	1:9:311:ILE:HG12	2.15	0.47
1:AA:89:PRO:HD3	1:AA:281:TYR:HD1	1.80	0.47
1:AA:302:LEU:HB3	1:AA:338:SER:OG	2.15	0.47
1:AE:307:LYS:O	1:AE:311:ILE:HG12	2.15	0.47
1:AH:57:TYR:HA	1:AH:137:GLN:CD	2.39	0.47
1:AJ:57:TYR:HA	1:AJ:137:GLN:CD	2.39	0.47
1:AJ:302:LEU:HB3	1:AJ:338:SER:OG	2.15	0.47
1:AK:89:PRO:HD3	1:AK:281:TYR:HD1	1.80	0.47
1:AN:89:PRO:HD3	1:AN:281:TYR:HD1	1.80	0.47
1:AO:89:PRO:HD3	1:AO:281:TYR:HD1	1.80	0.47
1:AP:57:TYR:HA	1:AP:137:GLN:CD	2.39	0.47
1:AR:89:PRO:HB2	1:AR:280:ARG:NH1	2.29	0.47
1:B:199:LEU:HD23	1:B:203:LEU:HD23	1.95	0.47
1:B:302:LEU:HB3	1:B:338:SER:OG	2.15	0.47
1:D:24:PRO:N	1:D:53:ASN:HD21	2.12	0.47
1:D:302:LEU:HB3	1:D:338:SER:OG	2.15	0.47
1:F:89:PRO:HB2	1:F:280:ARG:NH1	2.30	0.47
1:G:132:LEU:O	1:G:136:LEU:HG	2.15	0.47
1:G:307:LYS:O	1:G:311:ILE:HG12	2.15	0.47
1:L:89:PRO:HB2	1:L:280:ARG:NH1	2.29	0.47
1:L:89:PRO:HD3	1:L:281:TYR:HD1	1.80	0.47
1:O:89:PRO:HD3	1:O:281:TYR:HD1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:52:THR:HG21	1:Y:57:TYR:CG	2.49	0.47
1:Y:57:TYR:HA	1:Y:137:GLN:CD	2.39	0.47
1:b:302:LEU:HB3	1:b:338:SER:OG	2.15	0.47
1:e:307:LYS:O	1:e:311:ILE:HG12	2.15	0.47
1:f:89:PRO:HD3	1:f:281:TYR:HD1	1.80	0.47
1:k:52:THR:HG21	1:k:57:TYR:CG	2.49	0.47
1:l:223:SER:HA	1:m:212:ARG:HH22	1.80	0.47
1:m:302:LEU:HB3	1:m:338:SER:OG	2.15	0.47
1:m:307:LYS:O	1:m:311:ILE:HG12	2.15	0.47
1:n:89:PRO:HD3	1:n:281:TYR:HD1	1.80	0.47
1:p:89:PRO:HD3	1:p:281:TYR:HD1	1.80	0.47
1:p:302:LEU:HB3	1:p:338:SER:OG	2.15	0.47
1:q:52:THR:HG21	1:q:57:TYR:CG	2.49	0.47
1:q:89:PRO:HB2	1:q:280:ARG:NH1	2.30	0.47
1:q:89:PRO:HD3	1:q:281:TYR:HD1	1.80	0.47
1:v:302:LEU:HB3	1:v:338:SER:OG	2.15	0.47
1:w:307:LYS:O	1:w:311:ILE:HG12	2.15	0.47
1:0:89:PRO:HD3	1:0:281:TYR:HD1	1.80	0.47
1:0:307:LYS:O	1:0:311:ILE:HG12	2.15	0.47
1:1:89:PRO:HB2	1:1:280:ARG:NH1	2.29	0.47
1:2:307:LYS:O	1:2:311:ILE:HG12	2.15	0.47
1:3:24:PRO:N	1:3:53:ASN:HD21	2.12	0.47
1:3:89:PRO:HB2	1:3:280:ARG:NH1	2.30	0.47
1:3:89:PRO:HD3	1:3:281:TYR:HD1	1.80	0.47
1:3:302:LEU:HB3	1:3:338:SER:OG	2.15	0.47
1:4:24:PRO:N	1:4:53:ASN:HD21	2.12	0.47
1:4:307:LYS:O	1:4:311:ILE:HG12	2.15	0.47
1:5:89:PRO:HD3	1:5:281:TYR:HD1	1.80	0.47
1:5:307:LYS:O	1:5:311:ILE:HG12	2.15	0.47
1:6:307:LYS:O	1:6:311:ILE:HG12	2.15	0.47
1:7:52:THR:HG21	1:7:57:TYR:CG	2.49	0.47
1:8:89:PRO:HD3	1:8:281:TYR:HD1	1.80	0.47
1:9:302:LEU:HB3	1:9:338:SER:OG	2.15	0.47
1:AC:89:PRO:HB2	1:AC:280:ARG:NH1	2.29	0.47
1:AD:302:LEU:HB3	1:AD:338:SER:OG	2.15	0.47
1:AG:262:LYS:O	1:AG:266:GLN:HG2	2.14	0.47
1:AH:302:LEU:HB3	1:AH:338:SER:OG	2.15	0.47
1:AI:89:PRO:HB2	1:AI:280:ARG:NH1	2.30	0.47
1:AI:132:LEU:O	1:AI:136:LEU:HG	2.15	0.47
1:AJ:89:PRO:HD3	1:AJ:281:TYR:HD1	1.80	0.47
1:AK:52:THR:HG21	1:AK:57:TYR:CG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AK:132:LEU:O	1:AK:136:LEU:HG	2.15	0.47
1:AL:89:PRO:HB2	1:AL:280:ARG:NH1	2.30	0.47
1:AO:89:PRO:HB2	1:AO:280:ARG:NH1	2.29	0.47
1:AO:302:LEU:HB3	1:AO:338:SER:OG	2.15	0.47
1:AO:307:LYS:O	1:AO:311:ILE:HG12	2.15	0.47
1:AQ:57:TYR:HA	1:AQ:137:GLN:CD	2.39	0.47
1:AS:52:THR:HG21	1:AS:57:TYR:CG	2.49	0.47
1:AS:307:LYS:O	1:AS:311:ILE:HG12	2.15	0.47
1:B:89:PRO:HD3	1:B:281:TYR:HD1	1.80	0.47
1:D:89:PRO:HB2	1:D:280:ARG:NH1	2.29	0.47
1:D:307:LYS:O	1:D:311:ILE:HG12	2.15	0.47
1:E:89:PRO:HB2	1:E:280:ARG:NH1	2.30	0.47
1:E:307:LYS:O	1:E:311:ILE:HG12	2.15	0.47
1:F:89:PRO:HD3	1:F:281:TYR:HD1	1.80	0.47
1:G:302:LEU:HB3	1:G:338:SER:OG	2.15	0.47
1:I:89:PRO:HD3	1:I:281:TYR:HD1	1.80	0.47
1:I:307:LYS:O	1:I:311:ILE:HG12	2.15	0.47
1:J:89:PRO:HB2	1:J:280:ARG:NH1	2.30	0.47
1:J:132:LEU:O	1:J:136:LEU:HG	2.15	0.47
1:J:307:LYS:O	1:J:311:ILE:HG12	2.15	0.47
1:J:347:ARG:HA	1:J:350:LYS:HZ2	1.78	0.47
1:K:302:LEU:HB3	1:K:338:SER:OG	2.15	0.47
1:K:307:LYS:O	1:K:311:ILE:HG12	2.15	0.47
1:M:89:PRO:HD3	1:M:281:TYR:HD1	1.80	0.47
1:N:262:LYS:O	1:N:266:GLN:HG2	2.14	0.47
1:O:307:LYS:O	1:O:311:ILE:HG12	2.15	0.47
1:P:52:THR:HG21	1:P:57:TYR:CG	2.49	0.47
1:P:262:LYS:O	1:P:266:GLN:HG2	2.14	0.47
1:P:307:LYS:O	1:P:311:ILE:HG12	2.15	0.47
1:Q:57:TYR:HA	1:Q:137:GLN:CD	2.39	0.47
1:Q:307:LYS:O	1:Q:311:ILE:HG12	2.15	0.47
1:R:302:LEU:HB3	1:R:338:SER:OG	2.15	0.47
1:S:24:PRO:N	1:S:53:ASN:HD21	2.12	0.47
1:V:132:LEU:O	1:V:136:LEU:HG	2.15	0.47
1:V:262:LYS:O	1:V:266:GLN:HG2	2.14	0.47
1:V:302:LEU:HB3	1:V:338:SER:OG	2.15	0.47
1:V:306:THR:HB	1:V:334:ILE:HG22	1.95	0.47
1:V:307:LYS:O	1:V:311:ILE:HG12	2.15	0.47
1:W:24:PRO:N	1:W:53:ASN:HD21	2.12	0.47
1:W:52:THR:HG21	1:W:57:TYR:CG	2.49	0.47
1:W:89:PRO:HD3	1:W:281:TYR:HD1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:307:LYS:O	1:Y:311:ILE:HG12	2.15	0.47
1:Z:132:LEU:O	1:Z:136:LEU:HG	2.15	0.47
1:a:52:THR:HG21	1:a:57:TYR:CG	2.49	0.47
1:a:302:LEU:HB3	1:a:338:SER:OG	2.15	0.47
1:a:307:LYS:O	1:a:311:ILE:HG12	2.15	0.47
1:d:89:PRO:HD3	1:d:281:TYR:HD1	1.80	0.47
1:e:24:PRO:N	1:e:53:ASN:HD21	2.12	0.47
1:f:132:LEU:O	1:f:136:LEU:HG	2.15	0.47
1:h:89:PRO:HD3	1:h:281:TYR:HD1	1.80	0.47
1:h:262:LYS:O	1:h:266:GLN:HG2	2.14	0.47
1:i:24:PRO:N	1:i:53:ASN:HD21	2.12	0.47
1:i:89:PRO:HD3	1:i:281:TYR:HD1	1.80	0.47
1:i:132:LEU:O	1:i:136:LEU:HG	2.15	0.47
1:j:89:PRO:HD3	1:j:281:TYR:HD1	1.80	0.47
1:k:302:LEU:HB3	1:k:338:SER:OG	2.15	0.47
1:k:306:THR:HB	1:k:334:ILE:HG22	1.95	0.47
1:m:89:PRO:HD3	1:m:281:TYR:HD1	1.80	0.47
1:n:52:THR:HG21	1:n:57:TYR:CG	2.49	0.47
1:n:89:PRO:HB2	1:n:280:ARG:NH1	2.29	0.47
1:n:302:LEU:HB3	1:n:338:SER:OG	2.15	0.47
1:o:132:LEU:O	1:o:136:LEU:HG	2.15	0.47
1:p:307:LYS:O	1:p:311:ILE:HG12	2.15	0.47
1:r:89:PRO:HD3	1:r:281:TYR:HD1	1.80	0.47
1:r:132:LEU:O	1:r:136:LEU:HG	2.15	0.47
1:r:307:LYS:O	1:r:311:ILE:HG12	2.15	0.47
1:s:89:PRO:HD3	1:s:281:TYR:HD1	1.80	0.47
1:s:89:PRO:HB2	1:s:280:ARG:NH1	2.29	0.47
1:t:302:LEU:HB3	1:t:338:SER:OG	2.15	0.47
1:t:307:LYS:O	1:t:311:ILE:HG12	2.15	0.47
1:v:307:LYS:O	1:v:311:ILE:HG12	2.15	0.47
1:x:89:PRO:HD3	1:x:281:TYR:HD1	1.80	0.47
1:x:167:VAL:HG13	1:x:170:LYS:HZ2	1.80	0.47
1:x:307:LYS:O	1:x:311:ILE:HG12	2.15	0.47
1:y:89:PRO:HD3	1:y:281:TYR:HD1	1.80	0.47
1:y:302:LEU:HB3	1:y:338:SER:OG	2.15	0.47
1:y:307:LYS:O	1:y:311:ILE:HG12	2.15	0.47
1:z:89:PRO:HB2	1:z:280:ARG:NH1	2.30	0.47
1:0:52:THR:HG21	1:0:57:TYR:CG	2.49	0.47
1:1:89:PRO:HD3	1:1:281:TYR:HD1	1.80	0.47
1:1:307:LYS:O	1:1:311:ILE:HG12	2.15	0.47
1:6:89:PRO:HD3	1:6:281:TYR:HD1	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:302:LEU:HB3	1:7:338:SER:OG	2.15	0.47
1:7:307:LYS:O	1:7:311:ILE:HG12	2.15	0.47
1:AB:89:PRO:HD3	1:AB:281:TYR:HD1	1.80	0.47
1:AB:132:LEU:O	1:AB:136:LEU:HG	2.15	0.47
1:AF:89:PRO:HB2	1:AF:280:ARG:NH1	2.29	0.47
1:AF:307:LYS:O	1:AF:311:ILE:HG12	2.15	0.47
1:AK:89:PRO:HB2	1:AK:280:ARG:NH1	2.30	0.47
1:AO:24:PRO:N	1:AO:53:ASN:HD21	2.12	0.47
1:AQ:132:LEU:O	1:AQ:136:LEU:HG	2.15	0.47
1:AQ:262:LYS:O	1:AQ:266:GLN:HG2	2.14	0.47
1:AR:89:PRO:HD3	1:AR:281:TYR:HD1	1.80	0.47
1:AS:132:LEU:O	1:AS:136:LEU:HG	2.15	0.47
1:B:89:PRO:HB2	1:B:280:ARG:NH1	2.30	0.47
1:C:132:LEU:O	1:C:136:LEU:HG	2.15	0.47
1:D:132:LEU:O	1:D:136:LEU:HG	2.15	0.47
1:H:347:ARG:HA	1:H:350:LYS:HZ2	1.79	0.47
1:I:202:HIS:HB3	1:J:233:LEU:HD12	1.97	0.47
1:N:89:PRO:HD3	1:N:281:TYR:HD1	1.80	0.47
1:N:225:LEU:HD21	1:N:254:GLU:HA	1.97	0.47
1:N:307:LYS:O	1:N:311:ILE:HG12	2.15	0.47
1:O:24:PRO:N	1:O:53:ASN:HD21	2.12	0.47
1:P:89:PRO:HD3	1:P:281:TYR:HD1	1.80	0.47
1:T:24:PRO:N	1:T:53:ASN:HD21	2.12	0.47
1:T:262:LYS:O	1:T:266:GLN:HG2	2.14	0.47
1:X:57:TYR:HA	1:X:137:GLN:CD	2.39	0.47
1:X:307:LYS:O	1:X:311:ILE:HG12	2.15	0.47
1:Y:24:PRO:N	1:Y:53:ASN:HD21	2.12	0.47
1:Z:307:LYS:O	1:Z:311:ILE:HG12	2.15	0.47
1:c:307:LYS:O	1:c:311:ILE:HG12	2.15	0.47
1:g:132:LEU:O	1:g:136:LEU:HG	2.15	0.47
1:j:89:PRO:HB2	1:j:280:ARG:NH1	2.30	0.47
1:j:132:LEU:O	1:j:136:LEU:HG	2.15	0.47
1:l:302:LEU:HB3	1:l:338:SER:OG	2.15	0.47
1:n:307:LYS:O	1:n:311:ILE:HG12	2.15	0.47
1:o:24:PRO:N	1:o:53:ASN:HD21	2.12	0.47
1:o:89:PRO:HD3	1:o:281:TYR:HD1	1.80	0.47
1:q:307:LYS:O	1:q:311:ILE:HG12	2.15	0.47
1:u:302:LEU:HB3	1:u:338:SER:OG	2.15	0.47
1:u:307:LYS:O	1:u:311:ILE:HG12	2.15	0.47
1:w:52:THR:HG21	1:w:57:TYR:CG	2.49	0.47
1:w:132:LEU:O	1:w:136:LEU:HG	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:52:THR:HG21	1:z:57:TYR:CG	2.49	0.47
1:0:24:PRO:N	1:0:53:ASN:HD21	2.12	0.47
1:0:302:LEU:HB3	1:0:338:SER:OG	2.15	0.47
1:1:24:PRO:N	1:1:53:ASN:HD21	2.12	0.47
1:1:302:LEU:HB3	1:1:338:SER:OG	2.15	0.47
1:5:89:PRO:HB2	1:5:280:ARG:NH1	2.29	0.47
1:7:58:GLN:HG3	1:7:137:GLN:HB3	1.95	0.47
1:9:89:PRO:HD3	1:9:281:TYR:HD1	1.80	0.47
1:A:89:PRO:HD3	1:A:281:TYR:HD1	1.80	0.47
1:AB:89:PRO:HB2	1:AB:280:ARG:NH1	2.30	0.47
1:AC:89:PRO:HD3	1:AC:281:TYR:HD1	1.80	0.47
1:AC:307:LYS:O	1:AC:311:ILE:HG12	2.15	0.47
1:AE:89:PRO:HD3	1:AE:281:TYR:HD1	1.80	0.47
1:AI:52:THR:HG21	1:AI:57:TYR:CG	2.49	0.47
1:AI:89:PRO:HD3	1:AI:281:TYR:HD1	1.80	0.47
1:AJ:307:LYS:O	1:AJ:311:ILE:HG12	2.15	0.47
1:AL:182:VAL:HG23	1:I:318:LEU:O	2.15	0.47
1:AN:132:LEU:O	1:AN:136:LEU:HG	2.15	0.47
1:AP:307:LYS:O	1:AP:311:ILE:HG12	2.15	0.47
1:AR:307:LYS:O	1:AR:311:ILE:HG12	2.15	0.47
1:AS:24:PRO:N	1:AS:53:ASN:HD21	2.12	0.47
1:C:89:PRO:HD3	1:C:281:TYR:HD1	1.80	0.47
1:D:89:PRO:HD3	1:D:281:TYR:HD1	1.80	0.47
1:G:89:PRO:HD3	1:G:281:TYR:HD1	1.80	0.47
1:N:57:TYR:HA	1:N:137:GLN:CD	2.39	0.47
1:P:132:LEU:O	1:P:136:LEU:HG	2.15	0.47
1:U:262:LYS:O	1:U:266:GLN:HG2	2.14	0.47
1:X:306:THR:HB	1:X:334:ILE:HG22	1.95	0.47
1:Z:89:PRO:HD3	1:Z:281:TYR:HD1	1.80	0.47
1:d:132:LEU:O	1:d:136:LEU:HG	2.15	0.47
1:d:302:LEU:HB3	1:d:338:SER:OG	2.15	0.47
1:g:307:LYS:O	1:g:311:ILE:HG12	2.15	0.47
1:k:89:PRO:HD3	1:k:281:TYR:HD1	1.80	0.47
1:k:307:LYS:O	1:k:311:ILE:HG12	2.15	0.47
1:n:24:PRO:N	1:n:53:ASN:HD21	2.12	0.47
1:t:89:PRO:HD3	1:t:281:TYR:HD1	1.80	0.47
1:3:52:THR:HG21	1:3:57:TYR:CG	2.49	0.47
1:4:89:PRO:HD3	1:4:281:TYR:HD1	1.80	0.47
1:4:225:LEU:HD21	1:4:254:GLU:HA	1.97	0.47
1:5:52:THR:HG21	1:5:57:TYR:CG	2.49	0.47
1:6:52:THR:HG21	1:6:57:TYR:CG	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:132:LEU:O	1:6:136:LEU:HG	2.15	0.47
1:9:24:PRO:N	1:9:53:ASN:HD21	2.12	0.47
1:9:89:PRO:HB2	1:9:280:ARG:NH1	2.29	0.47
1:A:89:PRO:HB2	1:A:280:ARG:NH1	2.30	0.47
1:AA:24:PRO:N	1:AA:53:ASN:HD21	2.12	0.47
1:AE:302:LEU:HB3	1:AE:338:SER:OG	2.15	0.47
1:AF:24:PRO:N	1:AF:53:ASN:HD21	2.12	0.47
1:AF:89:PRO:HD3	1:AF:281:TYR:HD1	1.80	0.47
1:AM:52:THR:HG21	1:AM:57:TYR:CG	2.49	0.47
1:AM:307:LYS:O	1:AM:311:ILE:HG12	2.15	0.47
1:AN:89:PRO:HB2	1:AN:280:ARG:NH1	2.30	0.47
1:AS:262:LYS:O	1:AS:266:GLN:HG2	2.14	0.47
1:H:132:LEU:O	1:H:136:LEU:HG	2.15	0.47
1:I:132:LEU:O	1:I:136:LEU:HG	2.15	0.47
1:M:24:PRO:N	1:M:53:ASN:HD21	2.12	0.47
1:M:307:LYS:O	1:M:311:ILE:HG12	2.15	0.47
1:N:302:LEU:HB3	1:N:338:SER:OG	2.15	0.47
1:R:89:PRO:HD3	1:R:281:TYR:HD1	1.80	0.47
1:T:89:PRO:HD3	1:T:281:TYR:HD1	1.80	0.47
1:d:202:HIS:HB3	1:e:233:LEU:HD12	1.97	0.47
1:e:132:LEU:O	1:e:136:LEU:HG	2.15	0.47
1:g:52:THR:HG21	1:g:57:TYR:CG	2.49	0.47
1:h:302:LEU:HB3	1:h:338:SER:OG	2.15	0.47
1:h:307:LYS:O	1:h:311:ILE:HG12	2.15	0.47
1:r:89:PRO:HB2	1:r:280:ARG:NH1	2.30	0.47
1:w:302:LEU:HB3	1:w:338:SER:OG	2.15	0.47
1:3:132:LEU:O	1:3:136:LEU:HG	2.15	0.46
1:4:132:LEU:O	1:4:136:LEU:HG	2.15	0.46
1:6:302:LEU:HB3	1:6:338:SER:OG	2.15	0.46
1:7:225:LEU:HD21	1:7:254:GLU:HA	1.97	0.46
1:8:302:LEU:HB3	1:8:338:SER:OG	2.15	0.46
1:AA:132:LEU:O	1:AA:136:LEU:HG	2.15	0.46
1:AC:132:LEU:O	1:AC:136:LEU:HG	2.15	0.46
1:AC:262:LYS:O	1:AC:266:GLN:HG2	2.14	0.46
1:AE:395:LYS:HE2	1:AE:395:LYS:HB3	1.71	0.46
1:AK:24:PRO:N	1:AK:53:ASN:HD21	2.12	0.46
1:AL:225:LEU:HD21	1:AL:254:GLU:HA	1.97	0.46
1:AM:132:LEU:O	1:AM:136:LEU:HG	2.15	0.46
1:AP:132:LEU:O	1:AP:136:LEU:HG	2.15	0.46
1:G:202:HIS:HE1	1:H:237:CYS:HB3	1.80	0.46
1:I:89:PRO:HB2	1:I:280:ARG:NH1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:225:LEU:HD21	1:J:254:GLU:HA	1.97	0.46
1:M:52:THR:HG21	1:M:57:TYR:CG	2.49	0.46
1:M:132:LEU:O	1:M:136:LEU:HG	2.15	0.46
1:N:132:LEU:O	1:N:136:LEU:HG	2.15	0.46
1:T:307:LYS:O	1:T:311:ILE:HG12	2.15	0.46
1:U:132:LEU:O	1:U:136:LEU:HG	2.15	0.46
1:W:132:LEU:O	1:W:136:LEU:HG	2.15	0.46
1:W:307:LYS:O	1:W:311:ILE:HG12	2.15	0.46
1:Y:89:PRO:HD3	1:Y:281:TYR:HD1	1.80	0.46
1:c:24:PRO:N	1:c:53:ASN:HD21	2.12	0.46
1:f:262:LYS:O	1:f:266:GLN:HG2	2.14	0.46
1:f:307:LYS:O	1:f:311:ILE:HG12	2.15	0.46
1:g:89:PRO:HD3	1:g:281:TYR:HD1	1.80	0.46
1:i:52:THR:HG21	1:i:57:TYR:CG	2.49	0.46
1:l:307:LYS:O	1:l:311:ILE:HG12	2.15	0.46
1:n:202:HIS:HE1	1:o:237:CYS:HB3	1.80	0.46
1:v:89:PRO:HD3	1:v:281:TYR:HD1	1.80	0.46
1:w:24:PRO:N	1:w:53:ASN:HD21	2.12	0.46
1:w:89:PRO:HD3	1:w:281:TYR:HD1	1.80	0.46
1:y:24:PRO:N	1:y:53:ASN:HD21	2.12	0.46
1:z:89:PRO:HD3	1:z:281:TYR:HD1	1.80	0.46
1:0:273:GLU:CD	1:0:274:PRO:HD3	2.41	0.46
1:2:202:HIS:HB3	1:3:233:LEU:HD12	1.97	0.46
1:2:225:LEU:HD21	1:2:254:GLU:HA	1.97	0.46
1:5:302:LEU:HB3	1:5:338:SER:OG	2.15	0.46
1:AG:132:LEU:O	1:AG:136:LEU:HG	2.15	0.46
1:AH:132:LEU:O	1:AH:136:LEU:HG	2.15	0.46
1:AI:273:GLU:CD	1:AI:274:PRO:HD3	2.41	0.46
1:AJ:225:LEU:HD21	1:AJ:254:GLU:HA	1.98	0.46
1:AM:302:LEU:HB3	1:AM:338:SER:OG	2.15	0.46
1:AQ:302:LEU:HB3	1:AQ:338:SER:OG	2.15	0.46
1:B:307:LYS:O	1:B:311:ILE:HG12	2.15	0.46
1:E:89:PRO:HD3	1:E:281:TYR:HD1	1.80	0.46
1:K:89:PRO:HD3	1:K:281:TYR:HD1	1.80	0.46
1:L:132:LEU:O	1:L:136:LEU:HG	2.15	0.46
1:L:307:LYS:O	1:L:311:ILE:HG12	2.15	0.46
1:S:132:LEU:O	1:S:136:LEU:HG	2.15	0.46
1:S:307:LYS:O	1:S:311:ILE:HG12	2.15	0.46
1:T:132:LEU:O	1:T:136:LEU:HG	2.15	0.46
1:T:225:LEU:HD21	1:T:254:GLU:HA	1.97	0.46
1:V:225:LEU:HD21	1:V:254:GLU:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:132:LEU:O	1:X:136:LEU:HG	2.15	0.46
1:b:89:PRO:HD3	1:b:281:TYR:HD1	1.80	0.46
1:b:307:LYS:O	1:b:311:ILE:HG12	2.15	0.46
1:f:24:PRO:N	1:f:53:ASN:HD21	2.12	0.46
1:f:227:PHE:HB2	1:g:213:LEU:HD11	1.96	0.46
1:f:273:GLU:CD	1:f:274:PRO:HD3	2.41	0.46
1:h:24:PRO:N	1:h:53:ASN:HD21	2.12	0.46
1:h:273:GLU:CD	1:h:274:PRO:HD3	2.41	0.46
1:i:307:LYS:O	1:i:311:ILE:HG12	2.15	0.46
1:k:24:PRO:N	1:k:53:ASN:HD21	2.12	0.46
1:s:132:LEU:O	1:s:136:LEU:HG	2.15	0.46
1:t:132:LEU:O	1:t:136:LEU:HG	2.15	0.46
1:t:395:LYS:HE2	1:t:395:LYS:HB3	1.71	0.46
1:u:89:PRO:HB2	1:u:280:ARG:NH1	2.29	0.46
1:u:89:PRO:HD3	1:u:281:TYR:HD1	1.80	0.46
1:x:52:THR:HG21	1:x:57:TYR:CG	2.49	0.46
1:0:132:LEU:O	1:0:136:LEU:HG	2.15	0.46
1:3:273:GLU:CD	1:3:274:PRO:HD3	2.41	0.46
1:7:89:PRO:HD3	1:7:281:TYR:HD1	1.80	0.46
1:7:132:LEU:O	1:7:136:LEU:HG	2.15	0.46
1:9:132:LEU:O	1:9:136:LEU:HG	2.15	0.46
1:AA:307:LYS:O	1:AA:311:ILE:HG12	2.15	0.46
1:AB:307:LYS:O	1:AB:311:ILE:HG12	2.15	0.46
1:AG:307:LYS:O	1:AG:311:ILE:HG12	2.15	0.46
1:AI:24:PRO:N	1:AI:53:ASN:HD21	2.12	0.46
1:AK:273:GLU:CD	1:AK:274:PRO:HD3	2.41	0.46
1:AO:132:LEU:O	1:AO:136:LEU:HG	2.15	0.46
1:AQ:225:LEU:HD21	1:AQ:254:GLU:HA	1.97	0.46
1:AS:89:PRO:HD3	1:AS:281:TYR:HD1	1.80	0.46
1:AS:178:LYS:HD3	1:AS:178:LYS:HA	1.76	0.46
1:M:273:GLU:CD	1:M:274:PRO:HD3	2.41	0.46
1:P:273:GLU:CD	1:P:274:PRO:HD3	2.41	0.46
1:P:302:LEU:HB3	1:P:338:SER:OG	2.15	0.46
1:S:202:HIS:HB3	1:T:233:LEU:HD12	1.97	0.46
1:S:273:GLU:CD	1:S:274:PRO:HD3	2.41	0.46
1:T:302:LEU:HB3	1:T:338:SER:OG	2.15	0.46
1:X:225:LEU:HD21	1:X:254:GLU:HA	1.97	0.46
1:Z:273:GLU:CD	1:Z:274:PRO:HD3	2.41	0.46
1:Z:302:LEU:HB3	1:Z:338:SER:OG	2.15	0.46
1:a:132:LEU:O	1:a:136:LEU:HG	2.15	0.46
1:b:132:LEU:O	1:b:136:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:89:PRO:HD3	1:e:281:TYR:HD1	1.80	0.46
1:f:225:LEU:HD21	1:f:254:GLU:HA	1.97	0.46
1:h:132:LEU:O	1:h:136:LEU:HG	2.15	0.46
1:m:132:LEU:O	1:m:136:LEU:HG	2.15	0.46
1:p:132:LEU:O	1:p:136:LEU:HG	2.15	0.46
1:p:395:LYS:HB3	1:p:395:LYS:HE2	1.71	0.46
1:s:307:LYS:O	1:s:311:ILE:HG12	2.15	0.46
1:w:89:PRO:HB2	1:w:280:ARG:NH1	2.30	0.46
1:z:132:LEU:O	1:z:136:LEU:HG	2.15	0.46
1:z:273:GLU:CD	1:z:274:PRO:HD3	2.41	0.46
1:z:307:LYS:O	1:z:311:ILE:HG12	2.15	0.46
1:1:225:LEU:HD21	1:1:254:GLU:HA	1.98	0.46
1:3:178:LYS:HA	1:3:178:LYS:HD3	1.76	0.46
1:5:24:PRO:N	1:5:53:ASN:HD21	2.12	0.46
1:5:273:GLU:CD	1:5:274:PRO:HD3	2.41	0.46
1:9:273:GLU:CD	1:9:274:PRO:HD3	2.41	0.46
1:AA:273:GLU:CD	1:AA:274:PRO:HD3	2.41	0.46
1:AE:132:LEU:O	1:AE:136:LEU:HG	2.15	0.46
1:AE:225:LEU:HD21	1:AE:254:GLU:HA	1.97	0.46
1:AH:89:PRO:HD3	1:AH:281:TYR:HD1	1.80	0.46
1:AH:273:GLU:CD	1:AH:274:PRO:HD3	2.41	0.46
1:AJ:273:GLU:CD	1:AJ:274:PRO:HD3	2.41	0.46
1:AL:132:LEU:O	1:AL:136:LEU:HG	2.15	0.46
1:AL:307:LYS:O	1:AL:311:ILE:HG12	2.15	0.46
1:AN:273:GLU:CD	1:AN:274:PRO:HD3	2.41	0.46
1:F:132:LEU:O	1:F:136:LEU:HG	2.15	0.46
1:F:307:LYS:O	1:F:311:ILE:HG12	2.15	0.46
1:H:273:GLU:CD	1:H:274:PRO:HD3	2.41	0.46
1:H:307:LYS:O	1:H:311:ILE:HG12	2.15	0.46
1:N:273:GLU:CD	1:N:274:PRO:HD3	2.41	0.46
1:Q:132:LEU:O	1:Q:136:LEU:HG	2.15	0.46
1:S:89:PRO:HD3	1:S:281:TYR:HD1	1.80	0.46
1:U:302:LEU:HB3	1:U:338:SER:OG	2.15	0.46
1:V:89:PRO:HD3	1:V:281:TYR:HD1	1.80	0.46
1:W:273:GLU:CD	1:W:274:PRO:HD3	2.41	0.46
1:Z:24:PRO:N	1:Z:53:ASN:HD21	2.12	0.46
1:Z:225:LEU:HD21	1:Z:254:GLU:HA	1.97	0.46
1:d:202:HIS:CB	1:e:234:LEU:HA	2.42	0.46
1:i:273:GLU:CD	1:i:274:PRO:HD3	2.41	0.46
1:j:225:LEU:HD21	1:j:254:GLU:HA	1.97	0.46
1:k:132:LEU:O	1:k:136:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:273:GLU:CD	1:o:274:PRO:HD3	2.41	0.46
1:o:307:LYS:O	1:o:311:ILE:HG12	2.15	0.46
1:w:178:LYS:HD3	1:w:178:LYS:HA	1.76	0.46
1:y:225:LEU:HD21	1:y:254:GLU:HA	1.97	0.46
1:y:273:GLU:CD	1:y:274:PRO:HD3	2.41	0.46
1:8:52:THR:HG21	1:8:57:TYR:CG	2.49	0.46
1:8:273:GLU:CD	1:8:274:PRO:HD3	2.41	0.46
1:A:307:LYS:O	1:A:311:ILE:HG12	2.15	0.46
1:AC:225:LEU:HD21	1:AC:254:GLU:HA	1.97	0.46
1:AD:273:GLU:CD	1:AD:274:PRO:HD3	2.41	0.46
1:AF:132:LEU:O	1:AF:136:LEU:HG	2.15	0.46
1:AL:273:GLU:CD	1:AL:274:PRO:HD3	2.41	0.46
1:AM:89:PRO:HB2	1:AM:280:ARG:NH1	2.30	0.46
1:AP:273:GLU:CD	1:AP:274:PRO:HD3	2.41	0.46
1:AQ:307:LYS:O	1:AQ:311:ILE:HG12	2.15	0.46
1:AS:273:GLU:CD	1:AS:274:PRO:HD3	2.41	0.46
1:F:225:LEU:HD21	1:F:254:GLU:HA	1.97	0.46
1:G:225:LEU:HD21	1:G:254:GLU:HA	1.97	0.46
1:H:52:THR:HG21	1:H:57:TYR:CG	2.49	0.46
1:O:273:GLU:CD	1:O:274:PRO:HD3	2.41	0.46
1:P:225:LEU:HD21	1:P:254:GLU:HA	1.97	0.46
1:R:132:LEU:O	1:R:136:LEU:HG	2.15	0.46
1:R:307:LYS:O	1:R:311:ILE:HG12	2.15	0.46
1:R:347:ARG:HA	1:R:350:LYS:HZ2	1.80	0.46
1:Y:273:GLU:CD	1:Y:274:PRO:HD3	2.41	0.46
1:b:225:LEU:HD21	1:b:254:GLU:HA	1.97	0.46
1:c:89:PRO:HD3	1:c:281:TYR:HD1	1.80	0.46
1:h:225:LEU:HD21	1:h:254:GLU:HA	1.97	0.46
1:j:273:GLU:CD	1:j:274:PRO:HD3	2.41	0.46
1:n:225:LEU:HD21	1:n:254:GLU:HA	1.97	0.46
1:n:273:GLU:CD	1:n:274:PRO:HD3	2.41	0.46
1:o:52:THR:HG21	1:o:57:TYR:CG	2.49	0.46
1:p:167:VAL:HG13	1:p:170:LYS:HZ2	1.81	0.46
1:r:225:LEU:HD21	1:r:254:GLU:HA	1.97	0.46
1:u:273:GLU:CD	1:u:274:PRO:HD3	2.41	0.46
1:w:395:LYS:HE2	1:w:395:LYS:HB3	1.71	0.46
1:x:200:GLU:HB3	1:x:282:VAL:HG11	1.98	0.46
1:x:273:GLU:CD	1:x:274:PRO:HD3	2.41	0.46
1:y:89:PRO:HB2	1:y:280:ARG:NH1	2.30	0.46
1:1:132:LEU:O	1:1:136:LEU:HG	2.15	0.46
1:1:237:CYS:HB3	1:z:202:HIS:HE1	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:273:GLU:CD	1:1:274:PRO:HD3	2.41	0.46
1:5:132:LEU:O	1:5:136:LEU:HG	2.15	0.46
1:6:199:LEU:HD12	1:7:237:CYS:SG	2.56	0.46
1:6:273:GLU:CD	1:6:274:PRO:HD3	2.41	0.46
1:7:273:GLU:CD	1:7:274:PRO:HD3	2.41	0.46
1:AB:225:LEU:HD21	1:AB:254:GLU:HA	1.98	0.46
1:AB:273:GLU:CD	1:AB:274:PRO:HD3	2.41	0.46
1:AC:302:LEU:HB3	1:AC:338:SER:OG	2.15	0.46
1:AD:132:LEU:O	1:AD:136:LEU:HG	2.15	0.46
1:AF:273:GLU:CD	1:AF:274:PRO:HD3	2.41	0.46
1:AG:89:PRO:HD3	1:AG:281:TYR:HD1	1.80	0.46
1:AG:273:GLU:CD	1:AG:274:PRO:HD3	2.41	0.46
1:AK:307:LYS:O	1:AK:311:ILE:HG12	2.15	0.46
1:AM:273:GLU:CD	1:AM:274:PRO:HD3	2.41	0.46
1:AN:225:LEU:HD21	1:AN:254:GLU:HA	1.97	0.46
1:AP:89:PRO:HD3	1:AP:281:TYR:HD1	1.80	0.46
1:AQ:89:PRO:HD3	1:AQ:281:TYR:HD1	1.80	0.46
1:AS:302:LEU:HB3	1:AS:338:SER:OG	2.15	0.46
1:B:225:LEU:HD21	1:B:254:GLU:HA	1.97	0.46
1:J:273:GLU:CD	1:J:274:PRO:HD3	2.41	0.46
1:K:273:GLU:CD	1:K:274:PRO:HD3	2.41	0.46
1:L:225:LEU:HD21	1:L:254:GLU:HA	1.97	0.46
1:O:52:THR:HG21	1:O:57:TYR:CG	2.49	0.46
1:O:132:LEU:O	1:O:136:LEU:HG	2.15	0.46
1:Q:273:GLU:CD	1:Q:274:PRO:HD3	2.41	0.46
1:U:307:LYS:O	1:U:311:ILE:HG12	2.15	0.46
1:a:89:PRO:HD3	1:a:281:TYR:HD1	1.80	0.46
1:b:273:GLU:CD	1:b:274:PRO:HD3	2.41	0.46
1:d:200:GLU:HB3	1:d:282:VAL:HG11	1.98	0.46
1:d:307:LYS:O	1:d:311:ILE:HG12	2.15	0.46
1:g:273:GLU:CD	1:g:274:PRO:HD3	2.41	0.46
1:m:273:GLU:CD	1:m:274:PRO:HD3	2.41	0.46
1:q:35:LYS:HA	1:q:44:ILE:HD13	1.98	0.46
1:q:132:LEU:O	1:q:136:LEU:HG	2.15	0.46
1:q:273:GLU:CD	1:q:274:PRO:HD3	2.41	0.46
1:u:132:LEU:O	1:u:136:LEU:HG	2.15	0.46
1:v:132:LEU:O	1:v:136:LEU:HG	2.15	0.46
1:w:200:GLU:HB3	1:w:282:VAL:HG11	1.98	0.46
1:w:273:GLU:CD	1:w:274:PRO:HD3	2.41	0.46
1:y:132:LEU:O	1:y:136:LEU:HG	2.15	0.46
1:3:307:LYS:O	1:3:311:ILE:HG12	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:395:LYS:HE2	1:7:395:LYS:HB3	1.71	0.46
1:8:132:LEU:O	1:8:136:LEU:HG	2.15	0.46
1:8:178:LYS:HA	1:8:178:LYS:HD3	1.76	0.46
1:9:225:LEU:HD21	1:9:254:GLU:HA	1.97	0.46
1:A:225:LEU:HD21	1:A:254:GLU:HA	1.97	0.46
1:A:273:GLU:CD	1:A:274:PRO:HD3	2.41	0.46
1:AA:202:HIS:HE1	1:AB:237:CYS:HB3	1.80	0.46
1:AD:89:PRO:HD3	1:AD:281:TYR:HD1	1.80	0.46
1:AE:223:SER:HB2	1:AF:213:LEU:CD2	2.43	0.46
1:AF:200:GLU:HB3	1:AF:282:VAL:HG11	1.98	0.46
1:AG:225:LEU:HD21	1:AG:254:GLU:HA	1.97	0.46
1:AI:307:LYS:O	1:AI:311:ILE:HG12	2.15	0.46
1:AJ:132:LEU:O	1:AJ:136:LEU:HG	2.15	0.46
1:AN:307:LYS:O	1:AN:311:ILE:HG12	2.15	0.46
1:AO:178:LYS:HD3	1:AO:178:LYS:HA	1.76	0.46
1:AR:273:GLU:CD	1:AR:274:PRO:HD3	2.41	0.46
1:C:273:GLU:CD	1:C:274:PRO:HD3	2.41	0.46
1:D:273:GLU:CD	1:D:274:PRO:HD3	2.41	0.46
1:I:302:LEU:HB3	1:I:338:SER:OG	2.15	0.46
1:K:132:LEU:O	1:K:136:LEU:HG	2.15	0.46
1:K:212:ARG:NH2	1:L:226:ASP:HB2	2.31	0.46
1:L:35:LYS:HA	1:L:44:ILE:HD13	1.98	0.46
1:R:225:LEU:HD21	1:R:254:GLU:HA	1.97	0.46
1:T:273:GLU:CD	1:T:274:PRO:HD3	2.41	0.46
1:c:273:GLU:CD	1:c:274:PRO:HD3	2.41	0.46
1:e:273:GLU:CD	1:e:274:PRO:HD3	2.41	0.46
1:f:302:LEU:HB3	1:f:338:SER:OG	2.15	0.46
1:i:200:GLU:HB3	1:i:282:VAL:HG11	1.98	0.46
1:j:307:LYS:O	1:j:311:ILE:HG12	2.15	0.46
1:n:132:LEU:O	1:n:136:LEU:HG	2.15	0.46
1:s:273:GLU:CD	1:s:274:PRO:HD3	2.41	0.46
1:v:225:LEU:HD21	1:v:254:GLU:HA	1.97	0.46
1:v:273:GLU:CD	1:v:274:PRO:HD3	2.41	0.46
1:2:132:LEU:O	1:2:136:LEU:HG	2.15	0.46
1:2:139:ASP:OD2	1:2:141:GLU:HB2	2.16	0.46
1:2:307:LYS:CB	1:AO:311:ILE:HD12	2.45	0.46
1:5:200:GLU:HB3	1:5:282:VAL:HG11	1.98	0.46
1:AB:139:ASP:OD2	1:AB:141:GLU:HB2	2.16	0.46
1:AC:202:HIS:HB3	1:AD:233:LEU:HD12	1.97	0.46
1:AD:200:GLU:HB3	1:AD:282:VAL:HG11	1.98	0.46
1:AE:212:ARG:NH2	1:AF:226:ASP:HB2	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:273:GLU:CD	1:AE:274:PRO:HD3	2.41	0.46
1:AK:225:LEU:HD21	1:AK:254:GLU:HA	1.97	0.46
1:AQ:35:LYS:HA	1:AQ:44:ILE:HD13	1.98	0.46
1:AQ:200:GLU:HB3	1:AQ:282:VAL:HG11	1.98	0.46
1:C:200:GLU:HB3	1:C:282:VAL:HG11	1.98	0.46
1:D:35:LYS:HA	1:D:44:ILE:HD13	1.98	0.46
1:F:35:LYS:HA	1:F:44:ILE:HD13	1.98	0.46
1:F:273:GLU:CD	1:F:274:PRO:HD3	2.41	0.46
1:L:273:GLU:CD	1:L:274:PRO:HD3	2.41	0.46
1:R:35:LYS:HA	1:R:44:ILE:HD13	1.98	0.46
1:T:139:ASP:OD2	1:T:141:GLU:HB2	2.16	0.46
1:U:89:PRO:HD3	1:U:281:TYR:HD1	1.80	0.46
1:U:273:GLU:CD	1:U:274:PRO:HD3	2.41	0.46
1:X:273:GLU:CD	1:X:274:PRO:HD3	2.41	0.46
1:a:200:GLU:HB3	1:a:282:VAL:HG11	1.98	0.46
1:e:225:LEU:HD21	1:e:254:GLU:HA	1.97	0.46
1:g:200:GLU:HB3	1:g:282:VAL:HG11	1.98	0.46
1:j:200:GLU:HB3	1:j:282:VAL:HG11	1.98	0.46
1:k:178:LYS:HD3	1:k:178:LYS:HA	1.76	0.46
1:m:35:LYS:HA	1:m:44:ILE:HD13	1.98	0.46
1:o:200:GLU:HB3	1:o:282:VAL:HG11	1.98	0.46
1:p:225:LEU:HD21	1:p:254:GLU:HA	1.97	0.46
1:r:200:GLU:HB3	1:r:282:VAL:HG11	1.98	0.46
1:r:212:ARG:NH2	1:s:226:ASP:HB2	2.31	0.46
1:t:225:LEU:HD21	1:t:254:GLU:HA	1.97	0.46
1:z:200:GLU:HB3	1:z:282:VAL:HG11	1.98	0.46
1:5:225:LEU:HD21	1:5:254:GLU:HA	1.97	0.46
1:8:200:GLU:HB3	1:8:282:VAL:HG11	1.98	0.46
1:A:200:GLU:HB3	1:A:282:VAL:HG11	1.98	0.46
1:AD:307:LYS:O	1:AD:311:ILE:HG12	2.15	0.46
1:AI:225:LEU:HD21	1:AI:254:GLU:HA	1.97	0.46
1:AN:200:GLU:HB3	1:AN:282:VAL:HG11	1.98	0.46
1:AS:200:GLU:HB3	1:AS:282:VAL:HG11	1.98	0.46
1:B:200:GLU:HB3	1:B:282:VAL:HG11	1.98	0.46
1:H:139:ASP:OD2	1:H:141:GLU:HB2	2.16	0.46
1:R:273:GLU:CD	1:R:274:PRO:HD3	2.41	0.46
1:V:273:GLU:CD	1:V:274:PRO:HD3	2.41	0.46
1:X:89:PRO:HD3	1:X:281:TYR:HD1	1.80	0.46
1:Y:132:LEU:O	1:Y:136:LEU:HG	2.15	0.46
1:a:273:GLU:CD	1:a:274:PRO:HD3	2.41	0.46
1:l:132:LEU:O	1:l:136:LEU:HG	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:139:ASP:OD2	1:n:141:GLU:HB2	2.16	0.46
1:r:35:LYS:HA	1:r:44:ILE:HD13	1.98	0.46
1:s:35:LYS:HA	1:s:44:ILE:HD13	1.98	0.46
1:t:273:GLU:CD	1:t:274:PRO:HD3	2.41	0.46
1:x:132:LEU:O	1:x:136:LEU:HG	2.15	0.46
1:1:139:ASP:OD2	1:1:141:GLU:HB2	2.16	0.46
1:3:200:GLU:HB3	1:3:282:VAL:HG11	1.98	0.46
1:4:273:GLU:CD	1:4:274:PRO:HD3	2.41	0.46
1:6:200:GLU:HB3	1:6:282:VAL:HG11	1.98	0.46
1:7:81:LYS:NZ	1:7:131:ASP:H	2.14	0.46
1:AG:81:LYS:NZ	1:AG:131:ASP:H	2.14	0.46
1:AG:302:LEU:HB3	1:AG:338:SER:OG	2.15	0.46
1:AH:200:GLU:HB3	1:AH:282:VAL:HG11	1.98	0.46
1:AJ:35:LYS:HA	1:AJ:44:ILE:HD13	1.98	0.46
1:AL:139:ASP:OD2	1:AL:141:GLU:HB2	2.16	0.46
1:AM:139:ASP:OD2	1:AM:141:GLU:HB2	2.16	0.46
1:AO:35:LYS:HA	1:AO:44:ILE:HD13	1.98	0.46
1:AO:273:GLU:CD	1:AO:274:PRO:HD3	2.41	0.46
1:AR:132:LEU:O	1:AR:136:LEU:HG	2.15	0.46
1:AR:225:LEU:HD21	1:AR:254:GLU:HA	1.97	0.46
1:AS:225:LEU:HD21	1:AS:254:GLU:HA	1.97	0.46
1:B:35:LYS:HA	1:B:44:ILE:HD13	1.98	0.46
1:C:225:LEU:HD21	1:C:254:GLU:HA	1.97	0.46
1:E:273:GLU:CD	1:E:274:PRO:HD3	2.41	0.46
1:F:200:GLU:HB3	1:F:282:VAL:HG11	1.98	0.46
1:G:139:ASP:OD2	1:G:141:GLU:HB2	2.16	0.46
1:G:200:GLU:HB3	1:G:282:VAL:HG11	1.98	0.46
1:J:200:GLU:HB3	1:J:282:VAL:HG11	1.98	0.46
1:M:81:LYS:NZ	1:M:131:ASP:H	2.14	0.46
1:O:81:LYS:NZ	1:O:131:ASP:H	2.14	0.46
1:Q:202:HIS:HE1	1:R:237:CYS:HB3	1.80	0.46
1:R:200:GLU:HB3	1:R:282:VAL:HG11	1.98	0.46
1:U:225:LEU:HD21	1:U:254:GLU:HA	1.97	0.46
1:V:139:ASP:OD2	1:V:141:GLU:HB2	2.16	0.46
1:V:178:LYS:HD3	1:V:178:LYS:HA	1.76	0.46
1:W:81:LYS:NZ	1:W:131:ASP:H	2.14	0.46
1:d:81:LYS:NZ	1:d:131:ASP:H	2.14	0.46
1:e:35:LYS:HA	1:e:44:ILE:HD13	1.98	0.46
1:j:167:VAL:HG13	1:j:170:LYS:HZ2	1.80	0.46
1:k:35:LYS:HA	1:k:44:ILE:HD13	1.98	0.46
1:l:212:ARG:O	1:l:216:ARG:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:225:LEU:HD21	1:l:254:GLU:HA	1.97	0.46
1:l:273:GLU:CD	1:l:274:PRO:HD3	2.41	0.46
1:m:200:GLU:HB3	1:m:282:VAL:HG11	1.98	0.46
1:m:212:ARG:O	1:m:216:ARG:HD2	2.16	0.46
1:o:81:LYS:NZ	1:o:131:ASP:H	2.14	0.46
1:p:212:ARG:O	1:p:216:ARG:HD2	2.16	0.46
1:q:212:ARG:O	1:q:216:ARG:HD2	2.16	0.46
1:t:347:ARG:HA	1:t:350:LYS:HZ2	1.81	0.46
1:u:200:GLU:HB3	1:u:282:VAL:HG11	1.98	0.46
1:u:225:LEU:HD21	1:u:254:GLU:HA	1.97	0.46
1:0:139:ASP:OD2	1:0:141:GLU:HB2	2.16	0.45
1:0:225:LEU:HD21	1:0:254:GLU:HA	1.97	0.45
1:3:81:LYS:NZ	1:3:131:ASP:H	2.14	0.45
1:4:81:LYS:NZ	1:4:131:ASP:H	2.15	0.45
1:4:139:ASP:OD2	1:4:141:GLU:HB2	2.16	0.45
1:AA:225:LEU:HD21	1:AA:254:GLU:HA	1.97	0.45
1:AB:35:LYS:HA	1:AB:44:ILE:HD13	1.98	0.45
1:AB:81:LYS:NZ	1:AB:131:ASP:H	2.14	0.45
1:AD:225:LEU:HD21	1:AD:254:GLU:HA	1.97	0.45
1:AG:200:GLU:HB3	1:AG:282:VAL:HG11	1.98	0.45
1:AH:307:LYS:O	1:AH:311:ILE:HG12	2.15	0.45
1:AI:200:GLU:HB3	1:AI:282:VAL:HG11	1.98	0.45
1:AJ:200:GLU:HB3	1:AJ:282:VAL:HG11	1.98	0.45
1:AL:35:LYS:HA	1:AL:44:ILE:HD13	1.98	0.45
1:AL:200:GLU:HB3	1:AL:282:VAL:HG11	1.98	0.45
1:AS:81:LYS:NZ	1:AS:131:ASP:H	2.14	0.45
1:C:81:LYS:NZ	1:C:131:ASP:H	2.14	0.45
1:D:225:LEU:HD21	1:D:254:GLU:HA	1.97	0.45
1:G:273:GLU:CD	1:G:274:PRO:HD3	2.41	0.45
1:H:81:LYS:NZ	1:H:131:ASP:H	2.14	0.45
1:J:35:LYS:HA	1:J:44:ILE:HD13	1.98	0.45
1:N:200:GLU:HB3	1:N:282:VAL:HG11	1.98	0.45
1:P:35:LYS:HA	1:P:44:ILE:HD13	1.98	0.45
1:Q:89:PRO:HD3	1:Q:281:TYR:HD1	1.80	0.45
1:S:200:GLU:HB3	1:S:282:VAL:HG11	1.98	0.45
1:U:81:LYS:NZ	1:U:131:ASP:H	2.14	0.45
1:V:200:GLU:HB3	1:V:282:VAL:HG11	1.98	0.45
1:b:200:GLU:HB3	1:b:282:VAL:HG11	1.98	0.45
1:c:132:LEU:O	1:c:136:LEU:HG	2.15	0.45
1:e:200:GLU:HB3	1:e:282:VAL:HG11	1.98	0.45
1:e:212:ARG:O	1:e:216:ARG:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:139:ASP:OD2	1:g:141:GLU:HB2	2.16	0.45
1:g:212:ARG:O	1:g:216:ARG:HD2	2.16	0.45
1:i:81:LYS:NZ	1:i:131:ASP:H	2.14	0.45
1:k:225:LEU:HD21	1:k:254:GLU:HA	1.98	0.45
1:r:212:ARG:O	1:r:216:ARG:HD2	2.16	0.45
1:s:212:ARG:O	1:s:216:ARG:HD2	2.16	0.45
1:2:273:GLU:CD	1:2:274:PRO:HD3	2.41	0.45
1:5:212:ARG:O	1:5:216:ARG:HD2	2.16	0.45
1:8:81:LYS:NZ	1:8:131:ASP:H	2.14	0.45
1:A:81:LYS:NZ	1:A:131:ASP:H	2.14	0.45
1:AB:200:GLU:HB3	1:AB:282:VAL:HG11	1.98	0.45
1:AC:139:ASP:OD2	1:AC:141:GLU:HB2	2.16	0.45
1:AD:347:ARG:HA	1:AD:350:LYS:HZ2	1.81	0.45
1:AH:225:LEU:HD21	1:AH:254:GLU:HA	1.97	0.45
1:AI:178:LYS:HA	1:AI:178:LYS:HD3	1.76	0.45
1:AP:139:ASP:OD2	1:AP:141:GLU:HB2	2.16	0.45
1:B:212:ARG:O	1:B:216:ARG:HD2	2.16	0.45
1:B:273:GLU:CD	1:B:274:PRO:HD3	2.41	0.45
1:C:307:LYS:O	1:C:311:ILE:HG12	2.15	0.45
1:D:81:LYS:NZ	1:D:131:ASP:H	2.14	0.45
1:E:225:LEU:HD21	1:E:254:GLU:HA	1.97	0.45
1:H:35:LYS:HA	1:H:44:ILE:HD13	1.98	0.45
1:I:200:GLU:HB3	1:I:282:VAL:HG11	1.98	0.45
1:I:273:GLU:CD	1:I:274:PRO:HD3	2.41	0.45
1:L:200:GLU:HB3	1:L:282:VAL:HG11	1.98	0.45
1:N:35:LYS:HA	1:N:44:ILE:HD13	1.98	0.45
1:O:139:ASP:OD2	1:O:141:GLU:HB2	2.16	0.45
1:O:200:GLU:HB3	1:O:282:VAL:HG11	1.98	0.45
1:O:212:ARG:O	1:O:216:ARG:HD2	2.16	0.45
1:X:200:GLU:HB3	1:X:282:VAL:HG11	1.98	0.45
1:Y:81:LYS:NZ	1:Y:131:ASP:H	2.14	0.45
1:Z:81:LYS:NZ	1:Z:131:ASP:H	2.14	0.45
1:a:139:ASP:OD2	1:a:141:GLU:HB2	2.16	0.45
1:a:212:ARG:O	1:a:216:ARG:HD2	2.16	0.45
1:a:346:GLU:C	1:a:350:LYS:HZ2	2.25	0.45
1:c:35:LYS:HA	1:c:44:ILE:HD13	1.98	0.45
1:d:273:GLU:CD	1:d:274:PRO:HD3	2.41	0.45
1:e:81:LYS:NZ	1:e:131:ASP:H	2.14	0.45
1:i:212:ARG:O	1:i:216:ARG:HD2	2.17	0.45
1:k:273:GLU:CD	1:k:274:PRO:HD3	2.41	0.45
1:l:81:LYS:NZ	1:l:131:ASP:H	2.14	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:178:LYS:HD3	1:m:178:LYS:HA	1.76	0.45
1:m:225:LEU:HD21	1:m:254:GLU:HA	1.97	0.45
1:p:200:GLU:HB3	1:p:282:VAL:HG11	1.98	0.45
1:p:273:GLU:CD	1:p:274:PRO:HD3	2.41	0.45
1:q:200:GLU:HB3	1:q:282:VAL:HG11	1.98	0.45
1:t:199:LEU:HD12	1:u:237:CYS:SG	2.56	0.45
1:v:382:ALA:CB	1:w:386:ALA:HB2	2.44	0.45
1:x:225:LEU:HD21	1:x:254:GLU:HA	1.97	0.45
1:7:178:LYS:HD3	1:7:178:LYS:HA	1.76	0.45
1:AC:81:LYS:NZ	1:AC:131:ASP:H	2.14	0.45
1:AC:273:GLU:CD	1:AC:274:PRO:HD3	2.41	0.45
1:AI:212:ARG:O	1:AI:216:ARG:HD2	2.16	0.45
1:AK:200:GLU:HB3	1:AK:282:VAL:HG11	1.98	0.45
1:AQ:139:ASP:OD2	1:AQ:141:GLU:HB2	2.16	0.45
1:AQ:273:GLU:CD	1:AQ:274:PRO:HD3	2.41	0.45
1:B:81:LYS:NZ	1:B:131:ASP:H	2.14	0.45
1:K:212:ARG:O	1:K:216:ARG:HD2	2.17	0.45
1:K:225:LEU:HD21	1:K:254:GLU:HA	1.98	0.45
1:M:200:GLU:HB3	1:M:282:VAL:HG11	1.98	0.45
1:M:212:ARG:O	1:M:216:ARG:HD2	2.16	0.45
1:W:139:ASP:OD2	1:W:141:GLU:HB2	2.16	0.45
1:W:346:GLU:C	1:W:350:LYS:HZ2	2.25	0.45
1:Y:35:LYS:HA	1:Y:44:ILE:HD13	1.98	0.45
1:d:212:ARG:O	1:d:216:ARG:HD2	2.16	0.45
1:i:139:ASP:OD2	1:i:141:GLU:HB2	2.16	0.45
1:k:395:LYS:HB3	1:k:395:LYS:HE2	1.71	0.45
1:l:178:LYS:HD3	1:l:178:LYS:HA	1.76	0.45
1:l:200:GLU:HB3	1:l:282:VAL:HG11	1.98	0.45
1:o:212:ARG:O	1:o:216:ARG:HD2	2.17	0.45
1:p:81:LYS:NZ	1:p:131:ASP:H	2.14	0.45
1:q:225:LEU:HD21	1:q:254:GLU:HA	1.97	0.45
1:w:225:LEU:HD21	1:w:254:GLU:HA	1.97	0.45
1:x:81:LYS:NZ	1:x:131:ASP:H	2.14	0.45
1:y:139:ASP:OD2	1:y:141:GLU:HB2	2.16	0.45
1:z:81:LYS:NZ	1:z:131:ASP:H	2.14	0.45
1:6:81:LYS:NZ	1:6:131:ASP:H	2.14	0.45
1:AC:320:ARG:HH22	1:i:183:GLU:HB3	1.82	0.45
1:AD:139:ASP:OD2	1:AD:141:GLU:HB2	2.16	0.45
1:AE:200:GLU:HB3	1:AE:282:VAL:HG11	1.98	0.45
1:AE:397:GLU:HA	1:AE:400:TYR:CE2	2.52	0.45
1:AG:139:ASP:OD2	1:AG:141:GLU:HB2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AI:81:LYS:NZ	1:AI:131:ASP:H	2.14	0.45
1:AJ:81:LYS:NZ	1:AJ:131:ASP:H	2.14	0.45
1:AJ:139:ASP:OD2	1:AJ:141:GLU:HB2	2.16	0.45
1:AJ:397:GLU:HA	1:AJ:400:TYR:CE2	2.52	0.45
1:AL:81:LYS:NZ	1:AL:131:ASP:H	2.14	0.45
1:AL:397:GLU:HA	1:AL:400:TYR:CE2	2.52	0.45
1:AM:212:ARG:O	1:AM:216:ARG:HD2	2.16	0.45
1:AP:81:LYS:NZ	1:AP:131:ASP:H	2.14	0.45
1:C:212:ARG:O	1:C:216:ARG:HD2	2.16	0.45
1:D:139:ASP:OD2	1:D:141:GLU:HB2	2.16	0.45
1:I:212:ARG:O	1:I:216:ARG:HD2	2.17	0.45
1:I:225:LEU:HD21	1:I:254:GLU:HA	1.97	0.45
1:K:200:GLU:HB3	1:K:282:VAL:HG11	1.98	0.45
1:L:212:ARG:O	1:L:216:ARG:HD2	2.16	0.45
1:M:199:LEU:HD12	1:N:237:CYS:SG	2.56	0.45
1:M:225:LEU:HD21	1:M:254:GLU:HA	1.97	0.45
1:R:139:ASP:OD2	1:R:141:GLU:HB2	2.16	0.45
1:S:212:ARG:O	1:S:216:ARG:HD2	2.17	0.45
1:S:225:LEU:HD21	1:S:254:GLU:HA	1.97	0.45
1:U:139:ASP:OD2	1:U:141:GLU:HB2	2.16	0.45
1:V:199:LEU:HD12	1:W:237:CYS:SG	2.56	0.45
1:V:397:GLU:HA	1:V:400:TYR:CE2	2.52	0.45
1:X:98:LYS:HE3	1:c:101:PHE:HD2	1.81	0.45
1:Z:212:ARG:O	1:Z:216:ARG:HD2	2.16	0.45
1:c:81:LYS:NZ	1:c:131:ASP:H	2.14	0.45
1:g:81:LYS:NZ	1:g:131:ASP:H	2.15	0.45
1:m:81:LYS:NZ	1:m:131:ASP:H	2.14	0.45
1:s:200:GLU:HB3	1:s:282:VAL:HG11	1.98	0.45
1:t:200:GLU:HB3	1:t:282:VAL:HG11	1.98	0.45
1:w:81:LYS:NZ	1:w:131:ASP:H	2.14	0.45
1:x:212:ARG:O	1:x:216:ARG:HD2	2.17	0.45
1:z:212:ARG:O	1:z:216:ARG:HD2	2.16	0.45
1:1:232:LYS:HG2	1:1:246:PHE:O	2.17	0.45
1:2:200:GLU:HB3	1:2:282:VAL:HG11	1.98	0.45
1:3:212:ARG:O	1:3:216:ARG:HD2	2.16	0.45
1:6:212:ARG:O	1:6:216:ARG:HD2	2.16	0.45
1:6:225:LEU:HD21	1:6:254:GLU:HA	1.97	0.45
1:8:212:ARG:O	1:8:216:ARG:HD2	2.16	0.45
1:AA:200:GLU:HB3	1:AA:282:VAL:HG11	1.97	0.45
1:AB:397:GLU:HA	1:AB:400:TYR:CE2	2.52	0.45
1:AK:212:ARG:O	1:AK:216:ARG:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:81:LYS:NZ	1:AN:131:ASP:H	2.14	0.45
1:AN:232:LYS:HG2	1:AN:246:PHE:O	2.17	0.45
1:AO:225:LEU:HD21	1:AO:254:GLU:HA	1.97	0.45
1:AO:346:GLU:C	1:AO:350:LYS:HZ2	2.25	0.45
1:AO:397:GLU:HA	1:AO:400:TYR:CE2	2.52	0.45
1:AP:397:GLU:HA	1:AP:400:TYR:CE2	2.52	0.45
1:AQ:81:LYS:NZ	1:AQ:131:ASP:H	2.14	0.45
1:AQ:395:LYS:HE2	1:AQ:395:LYS:HB3	1.71	0.45
1:AS:397:GLU:HA	1:AS:400:TYR:CE2	2.52	0.45
1:D:200:GLU:HB3	1:D:282:VAL:HG11	1.98	0.45
1:D:212:ARG:O	1:D:216:ARG:HD2	2.17	0.45
1:E:132:LEU:O	1:E:136:LEU:HG	2.15	0.45
1:J:397:GLU:HA	1:J:400:TYR:CE2	2.52	0.45
1:N:397:GLU:HA	1:N:400:TYR:CE2	2.52	0.45
1:P:200:GLU:HB3	1:P:282:VAL:HG11	1.98	0.45
1:P:232:LYS:HG2	1:P:246:PHE:O	2.17	0.45
1:R:232:LYS:HG2	1:R:246:PHE:O	2.17	0.45
1:U:200:GLU:HB3	1:U:282:VAL:HG11	1.98	0.45
1:W:35:LYS:HA	1:W:44:ILE:HD13	1.98	0.45
1:X:232:LYS:HG2	1:X:246:PHE:O	2.17	0.45
1:X:397:GLU:HA	1:X:400:TYR:CE2	2.52	0.45
1:Y:139:ASP:OD2	1:Y:141:GLU:HB2	2.16	0.45
1:f:232:LYS:HG2	1:f:246:PHE:O	2.17	0.45
1:h:139:ASP:OD2	1:h:141:GLU:HB2	2.16	0.45
1:l:397:GLU:HA	1:l:400:TYR:CE2	2.52	0.45
1:r:273:GLU:CD	1:r:274:PRO:HD3	2.41	0.45
1:s:139:ASP:OD2	1:s:141:GLU:HB2	2.16	0.45
1:s:225:LEU:HD21	1:s:254:GLU:HA	1.97	0.45
1:v:200:GLU:HB3	1:v:282:VAL:HG11	1.98	0.45
1:v:397:GLU:HA	1:v:400:TYR:CE2	2.52	0.45
1:0:346:GLU:C	1:0:350:LYS:HZ2	2.25	0.45
1:3:225:LEU:HD21	1:3:254:GLU:HA	1.97	0.45
1:4:200:GLU:HB3	1:4:282:VAL:HG11	1.98	0.45
1:7:139:ASP:OD2	1:7:141:GLU:HB2	2.16	0.45
1:7:397:GLU:HA	1:7:400:TYR:CE2	2.52	0.45
1:9:397:GLU:HA	1:9:400:TYR:CE2	2.52	0.45
1:A:139:ASP:OD2	1:A:141:GLU:HB2	2.16	0.45
1:A:212:ARG:O	1:A:216:ARG:HD2	2.17	0.45
1:AA:139:ASP:OD2	1:AA:141:GLU:HB2	2.16	0.45
1:AC:200:GLU:HB3	1:AC:282:VAL:HG11	1.98	0.45
1:AC:232:LYS:HG2	1:AC:246:PHE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:258:ILE:HD11	1:u:47:ARG:HH11	1.81	0.45
1:AG:232:LYS:HG2	1:AG:246:PHE:O	2.17	0.45
1:AH:139:ASP:OD2	1:AH:141:GLU:HB2	2.16	0.45
1:AP:200:GLU:HB3	1:AP:282:VAL:HG11	1.98	0.45
1:B:139:ASP:OD2	1:B:141:GLU:HB2	2.16	0.45
1:F:139:ASP:OD2	1:F:141:GLU:HB2	2.16	0.45
1:F:232:LYS:HG2	1:F:246:PHE:O	2.17	0.45
1:G:397:GLU:HA	1:G:400:TYR:CE2	2.52	0.45
1:H:212:ARG:O	1:H:216:ARG:HD2	2.16	0.45
1:I:139:ASP:OD2	1:I:141:GLU:HB2	2.16	0.45
1:J:212:ARG:O	1:J:216:ARG:HD2	2.16	0.45
1:K:35:LYS:HA	1:K:44:ILE:HD13	1.98	0.45
1:L:232:LYS:HG2	1:L:246:PHE:O	2.17	0.45
1:M:35:LYS:HA	1:M:44:ILE:HD13	1.98	0.45
1:M:139:ASP:OD2	1:M:141:GLU:HB2	2.16	0.45
1:M:397:GLU:HA	1:M:400:TYR:CE2	2.52	0.45
1:N:81:LYS:NZ	1:N:131:ASP:H	2.15	0.45
1:N:139:ASP:OD2	1:N:141:GLU:HB2	2.16	0.45
1:O:35:LYS:HA	1:O:44:ILE:HD13	1.98	0.45
1:O:346:GLU:C	1:O:350:LYS:HZ2	2.25	0.45
1:Q:200:GLU:HB3	1:Q:282:VAL:HG11	1.98	0.45
1:S:35:LYS:HA	1:S:44:ILE:HD13	1.98	0.45
1:S:81:LYS:NZ	1:S:131:ASP:H	2.14	0.45
1:S:139:ASP:OD2	1:S:141:GLU:HB2	2.16	0.45
1:S:346:GLU:C	1:S:350:LYS:HZ2	2.25	0.45
1:T:232:LYS:HG2	1:T:246:PHE:O	2.17	0.45
1:U:232:LYS:HG2	1:U:246:PHE:O	2.17	0.45
1:W:225:LEU:HD21	1:W:254:GLU:HA	1.97	0.45
1:b:397:GLU:HA	1:b:400:TYR:CE2	2.52	0.45
1:c:225:LEU:HD21	1:c:254:GLU:HA	1.97	0.45
1:d:397:GLU:HA	1:d:400:TYR:CE2	2.52	0.45
1:h:232:LYS:HG2	1:h:246:PHE:O	2.17	0.45
1:h:397:GLU:HA	1:h:400:TYR:CE2	2.52	0.45
1:n:200:GLU:HB3	1:n:282:VAL:HG11	1.98	0.45
1:o:225:LEU:HD21	1:o:254:GLU:HA	1.97	0.45
1:p:346:GLU:C	1:p:350:LYS:HZ2	2.25	0.45
1:p:397:GLU:HA	1:p:400:TYR:CE2	2.52	0.45
1:q:81:LYS:NZ	1:q:131:ASP:H	2.14	0.45
1:r:139:ASP:OD2	1:r:141:GLU:HB2	2.16	0.45
1:t:397:GLU:HA	1:t:400:TYR:CE2	2.52	0.45
1:y:232:LYS:HG2	1:y:246:PHE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:200:GLU:HB3	1:0:282:VAL:HG11	1.98	0.45
1:2:81:LYS:NZ	1:2:131:ASP:H	2.15	0.45
1:2:212:ARG:O	1:2:216:ARG:HD2	2.16	0.45
1:4:232:LYS:HG2	1:4:246:PHE:O	2.17	0.45
1:4:397:GLU:HA	1:4:400:TYR:CE2	2.52	0.45
1:6:397:GLU:HA	1:6:400:TYR:CE2	2.52	0.45
1:8:225:LEU:HD21	1:8:254:GLU:HA	1.97	0.45
1:A:199:LEU:HD12	1:B:237:CYS:SG	2.56	0.45
1:AA:212:ARG:O	1:AA:216:ARG:HD2	2.16	0.45
1:AG:212:ARG:O	1:AG:216:ARG:HD2	2.16	0.45
1:AI:397:GLU:HA	1:AI:400:TYR:CE2	2.52	0.45
1:AQ:232:LYS:HG2	1:AQ:246:PHE:O	2.17	0.45
1:AR:200:GLU:HB3	1:AR:282:VAL:HG11	1.98	0.45
1:AS:232:LYS:HG2	1:AS:246:PHE:O	2.17	0.45
1:D:346:GLU:C	1:D:350:LYS:HZ2	2.25	0.45
1:H:397:GLU:HA	1:H:400:TYR:CE2	2.52	0.45
1:Q:139:ASP:OD2	1:Q:141:GLU:HB2	2.16	0.45
1:Q:225:LEU:HD21	1:Q:254:GLU:HA	1.97	0.45
1:Q:397:GLU:HA	1:Q:400:TYR:CE2	2.52	0.45
1:U:397:GLU:HA	1:U:400:TYR:CE2	2.52	0.45
1:W:397:GLU:HA	1:W:400:TYR:CE2	2.52	0.45
1:X:139:ASP:OD2	1:X:141:GLU:HB2	2.16	0.45
1:Z:200:GLU:HB3	1:Z:282:VAL:HG11	1.98	0.45
1:Z:232:LYS:HG2	1:Z:246:PHE:O	2.17	0.45
1:Z:397:GLU:HA	1:Z:400:TYR:CE2	2.52	0.45
1:b:232:LYS:HG2	1:b:246:PHE:O	2.17	0.45
1:d:35:LYS:HA	1:d:44:ILE:HD13	1.98	0.45
1:d:195:TYR:CE2	1:e:237:CYS:O	2.70	0.45
1:e:232:LYS:HG2	1:e:246:PHE:O	2.17	0.45
1:f:81:LYS:NZ	1:f:131:ASP:H	2.14	0.45
1:f:212:ARG:O	1:f:216:ARG:HD2	2.17	0.45
1:g:397:GLU:HA	1:g:400:TYR:CE2	2.52	0.45
1:i:397:GLU:HA	1:i:400:TYR:CE2	2.52	0.45
1:j:35:LYS:HA	1:j:44:ILE:HD13	1.98	0.45
1:j:232:LYS:HG2	1:j:246:PHE:O	2.17	0.45
1:k:139:ASP:OD2	1:k:141:GLU:HB2	2.16	0.45
1:m:232:LYS:HG2	1:m:246:PHE:O	2.17	0.45
1:n:81:LYS:NZ	1:n:131:ASP:H	2.14	0.45
1:o:139:ASP:OD2	1:o:141:GLU:HB2	2.16	0.45
1:s:397:GLU:HA	1:s:400:TYR:CE2	2.52	0.45
1:u:232:LYS:HG2	1:u:246:PHE:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:397:GLU:HA	1:w:400:TYR:CE2	2.52	0.45
1:z:139:ASP:OD2	1:z:141:GLU:HB2	2.16	0.45
1:z:225:LEU:HD21	1:z:254:GLU:HA	1.97	0.45
1:1:397:GLU:HA	1:1:400:TYR:CE2	2.52	0.45
1:2:320:ARG:HH22	1:AO:183:GLU:CB	2.15	0.45
1:6:178:LYS:HD3	1:6:178:LYS:HA	1.76	0.45
1:6:232:LYS:HG2	1:6:246:PHE:O	2.17	0.45
1:9:81:LYS:NZ	1:9:131:ASP:H	2.14	0.45
1:AC:212:ARG:O	1:AC:216:ARG:HD2	2.16	0.45
1:AE:139:ASP:OD2	1:AE:141:GLU:HB2	2.16	0.45
1:AF:81:LYS:NZ	1:AF:131:ASP:H	2.14	0.45
1:AF:139:ASP:OD2	1:AF:141:GLU:HB2	2.16	0.45
1:AF:395:LYS:HB3	1:AF:395:LYS:HE2	1.71	0.45
1:AJ:232:LYS:HG2	1:AJ:246:PHE:O	2.17	0.45
1:AM:81:LYS:NZ	1:AM:131:ASP:H	2.15	0.45
1:AM:225:LEU:HD21	1:AM:254:GLU:HA	1.97	0.45
1:AM:397:GLU:HA	1:AM:400:TYR:CE2	2.52	0.45
1:AO:139:ASP:OD2	1:AO:141:GLU:HB2	2.16	0.45
1:AR:139:ASP:OD2	1:AR:141:GLU:HB2	2.16	0.45
1:AR:397:GLU:HA	1:AR:400:TYR:CE2	2.52	0.45
1:AS:212:ARG:O	1:AS:216:ARG:HD2	2.16	0.45
1:B:232:LYS:HG2	1:B:246:PHE:O	2.17	0.45
1:B:397:GLU:HA	1:B:400:TYR:CE2	2.52	0.45
1:C:139:ASP:OD2	1:C:141:GLU:HB2	2.16	0.45
1:C:397:GLU:HA	1:C:400:TYR:CE2	2.52	0.45
1:E:139:ASP:OD2	1:E:141:GLU:HB2	2.16	0.45
1:F:182:VAL:HG23	1:d:318:LEU:O	2.17	0.45
1:G:212:ARG:O	1:G:216:ARG:HD2	2.17	0.45
1:J:81:LYS:NZ	1:J:131:ASP:H	2.14	0.45
1:K:397:GLU:HA	1:K:400:TYR:CE2	2.52	0.45
1:N:212:ARG:O	1:N:216:ARG:HD2	2.17	0.45
1:N:232:LYS:HG2	1:N:246:PHE:O	2.17	0.45
1:P:212:ARG:O	1:P:216:ARG:HD2	2.16	0.45
1:Q:81:LYS:NZ	1:Q:131:ASP:H	2.14	0.45
1:Q:356:ILE:HG13	1:Q:360:GLN:NE2	2.32	0.45
1:T:397:GLU:HA	1:T:400:TYR:CE2	2.52	0.45
1:U:212:ARG:O	1:U:216:ARG:HD2	2.16	0.45
1:V:212:ARG:O	1:V:216:ARG:HD2	2.16	0.45
1:W:232:LYS:HG2	1:W:246:PHE:O	2.17	0.45
1:Y:225:LEU:HD21	1:Y:254:GLU:HA	1.97	0.45
1:a:225:LEU:HD21	1:a:254:GLU:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:232:LYS:HG2	1:d:246:PHE:O	2.17	0.45
1:f:200:GLU:HB3	1:f:282:VAL:HG11	1.98	0.45
1:f:397:GLU:HA	1:f:400:TYR:CE2	2.52	0.45
1:g:356:ILE:HG13	1:g:360:GLN:NE2	2.32	0.45
1:i:225:LEU:HD21	1:i:254:GLU:HA	1.97	0.45
1:j:81:LYS:NZ	1:j:131:ASP:H	2.14	0.45
1:n:212:ARG:O	1:n:216:ARG:HD2	2.16	0.45
1:p:232:LYS:HG2	1:p:246:PHE:O	2.17	0.45
1:q:397:GLU:HA	1:q:400:TYR:CE2	2.52	0.45
1:r:81:LYS:NZ	1:r:131:ASP:H	2.14	0.45
1:r:232:LYS:HG2	1:r:246:PHE:O	2.17	0.45
1:r:397:GLU:HA	1:r:400:TYR:CE2	2.52	0.45
1:v:395:LYS:HE2	1:v:395:LYS:HB3	1.71	0.45
1:w:212:ARG:O	1:w:216:ARG:HD2	2.16	0.45
1:x:178:LYS:HD3	1:x:178:LYS:HA	1.76	0.45
1:y:397:GLU:HA	1:y:400:TYR:CE2	2.52	0.45
1:0:167:VAL:HG13	1:0:170:LYS:HZ2	1.82	0.45
1:0:212:ARG:O	1:0:216:ARG:HD2	2.16	0.45
1:1:200:GLU:HB3	1:1:282:VAL:HG11	1.98	0.45
1:2:195:TYR:CE2	1:3:237:CYS:O	2.70	0.45
1:2:232:LYS:HG2	1:2:246:PHE:O	2.17	0.45
1:3:397:GLU:HA	1:3:400:TYR:CE2	2.52	0.45
1:4:212:ARG:NH2	1:5:226:ASP:HB2	2.31	0.45
1:5:139:ASP:OD2	1:5:141:GLU:HB2	2.16	0.45
1:6:35:LYS:HA	1:6:44:ILE:HD13	1.98	0.45
1:7:212:ARG:O	1:7:216:ARG:HD2	2.16	0.45
1:8:35:LYS:HA	1:8:44:ILE:HD13	1.98	0.45
1:AA:356:ILE:HG13	1:AA:360:GLN:NE2	2.32	0.45
1:AD:232:LYS:HG2	1:AD:246:PHE:O	2.17	0.45
1:AF:212:ARG:O	1:AF:216:ARG:HD2	2.16	0.45
1:AF:225:LEU:HD21	1:AF:254:GLU:HA	1.97	0.45
1:AF:356:ILE:HG13	1:AF:360:GLN:NE2	2.32	0.45
1:AJ:212:ARG:O	1:AJ:216:ARG:HD2	2.16	0.45
1:AK:397:GLU:HA	1:AK:400:TYR:CE2	2.52	0.45
1:AM:200:GLU:HB3	1:AM:282:VAL:HG11	1.98	0.45
1:AN:35:LYS:HA	1:AN:44:ILE:HD13	1.98	0.45
1:AN:139:ASP:OD2	1:AN:141:GLU:HB2	2.16	0.45
1:AP:35:LYS:HA	1:AP:44:ILE:HD13	1.98	0.45
1:AP:356:ILE:HG13	1:AP:360:GLN:NE2	2.32	0.45
1:H:200:GLU:HB3	1:H:282:VAL:HG11	1.98	0.45
1:H:225:LEU:HD21	1:H:254:GLU:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:35:LYS:HA	1:I:44:ILE:HD13	1.98	0.45
1:I:195:TYR:CE2	1:J:237:CYS:O	2.70	0.45
1:P:81:LYS:NZ	1:P:131:ASP:H	2.14	0.45
1:P:397:GLU:HA	1:P:400:TYR:CE2	2.52	0.45
1:T:200:GLU:HB3	1:T:282:VAL:HG11	1.98	0.45
1:V:232:LYS:HG2	1:V:246:PHE:O	2.17	0.45
1:a:356:ILE:HG13	1:a:360:GLN:NE2	2.32	0.45
1:c:139:ASP:OD2	1:c:141:GLU:HB2	2.16	0.45
1:e:139:ASP:OD2	1:e:141:GLU:HB2	2.16	0.45
1:h:81:LYS:NZ	1:h:131:ASP:H	2.14	0.45
1:h:212:ARG:O	1:h:216:ARG:HD2	2.17	0.45
1:l:232:LYS:HG2	1:l:246:PHE:O	2.17	0.45
1:l:292:ARG:NE	1:l:349:VAL:HG22	2.32	0.45
1:n:232:LYS:HG2	1:n:246:PHE:O	2.17	0.45
1:o:397:GLU:HA	1:o:400:TYR:CE2	2.52	0.45
1:p:35:LYS:HA	1:p:44:ILE:HD13	1.98	0.45
1:s:292:ARG:NE	1:s:349:VAL:HG22	2.32	0.45
1:s:356:ILE:HG13	1:s:360:GLN:NE2	2.32	0.45
1:t:212:ARG:O	1:t:216:ARG:HD2	2.16	0.45
1:u:81:LYS:NZ	1:u:131:ASP:H	2.14	0.45
1:w:356:ILE:HG13	1:w:360:GLN:NE2	2.32	0.45
1:5:252:LYS:HD3	1:5:252:LYS:HA	1.80	0.45
1:5:292:ARG:NE	1:5:349:VAL:HG22	2.32	0.45
1:7:35:LYS:HA	1:7:44:ILE:HD13	1.98	0.45
1:8:248:ASP:O	1:8:252:LYS:HG2	2.17	0.45
1:9:232:LYS:HG2	1:9:246:PHE:O	2.17	0.45
1:AA:397:GLU:HA	1:AA:400:TYR:CE2	2.52	0.45
1:AD:212:ARG:O	1:AD:216:ARG:HD2	2.16	0.45
1:AF:232:LYS:HG2	1:AF:246:PHE:O	2.17	0.45
1:AH:212:ARG:O	1:AH:216:ARG:HD2	2.16	0.45
1:AH:232:LYS:HG2	1:AH:246:PHE:O	2.17	0.45
1:AI:139:ASP:OD2	1:AI:141:GLU:HB2	2.16	0.45
1:AI:292:ARG:NE	1:AI:349:VAL:HG22	2.32	0.45
1:AI:356:ILE:HG13	1:AI:360:GLN:NE2	2.32	0.45
1:AJ:248:ASP:O	1:AJ:252:LYS:HG2	2.17	0.45
1:AK:139:ASP:OD2	1:AK:141:GLU:HB2	2.16	0.45
1:AK:292:ARG:NE	1:AK:349:VAL:HG22	2.32	0.45
1:AK:356:ILE:HG13	1:AK:360:GLN:NE2	2.32	0.45
1:AL:212:ARG:O	1:AL:216:ARG:HD2	2.16	0.45
1:AN:178:LYS:HD3	1:AN:178:LYS:HA	1.76	0.45
1:AN:212:ARG:O	1:AN:216:ARG:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:225:LEU:HD21	1:AP:254:GLU:HA	1.97	0.45
1:AQ:248:ASP:O	1:AQ:252:LYS:HG2	2.18	0.45
1:AR:356:ILE:HG13	1:AR:360:GLN:NE2	2.32	0.45
1:AS:292:ARG:NE	1:AS:349:VAL:HG22	2.32	0.45
1:D:232:LYS:HG2	1:D:246:PHE:O	2.17	0.45
1:E:200:GLU:HB3	1:E:282:VAL:HG11	1.98	0.45
1:E:356:ILE:HG13	1:E:360:GLN:NE2	2.32	0.45
1:F:212:ARG:O	1:F:216:ARG:HD2	2.17	0.45
1:F:397:GLU:HA	1:F:400:TYR:CE2	2.52	0.45
1:K:232:LYS:HG2	1:K:246:PHE:O	2.17	0.45
1:L:397:GLU:HA	1:L:400:TYR:CE2	2.52	0.45
1:O:225:LEU:HD21	1:O:254:GLU:HA	1.97	0.45
1:O:397:GLU:HA	1:O:400:TYR:CE2	2.52	0.45
1:Q:35:LYS:HA	1:Q:44:ILE:HD13	1.98	0.45
1:R:81:LYS:NZ	1:R:131:ASP:H	2.15	0.45
1:R:212:ARG:O	1:R:216:ARG:HD2	2.16	0.45
1:S:395:LYS:HE2	1:S:395:LYS:HB3	1.71	0.45
1:T:212:ARG:O	1:T:216:ARG:HD2	2.16	0.45
1:W:200:GLU:HB3	1:W:282:VAL:HG11	1.98	0.45
1:W:212:ARG:O	1:W:216:ARG:HD2	2.16	0.45
1:W:292:ARG:NE	1:W:349:VAL:HG22	2.32	0.45
1:a:81:LYS:NZ	1:a:131:ASP:H	2.14	0.45
1:a:232:LYS:HG2	1:a:246:PHE:O	2.17	0.45
1:a:397:GLU:HA	1:a:400:TYR:CE2	2.52	0.45
1:d:139:ASP:OD2	1:d:141:GLU:HB2	2.16	0.45
1:f:139:ASP:OD2	1:f:141:GLU:HB2	2.16	0.45
1:h:200:GLU:HB3	1:h:282:VAL:HG11	1.98	0.45
1:j:397:GLU:HA	1:j:400:TYR:CE2	2.52	0.45
1:q:356:ILE:HG13	1:q:360:GLN:NE2	2.32	0.45
1:t:292:ARG:NE	1:t:349:VAL:HG22	2.32	0.45
1:u:139:ASP:OD2	1:u:141:GLU:HB2	2.16	0.45
1:u:212:ARG:O	1:u:216:ARG:HD2	2.16	0.45
1:w:232:LYS:HG2	1:w:246:PHE:O	2.17	0.45
1:y:35:LYS:HA	1:y:44:ILE:HD13	1.98	0.45
1:y:212:ARG:O	1:y:216:ARG:HD2	2.16	0.45
1:z:35:LYS:HA	1:z:44:ILE:HD13	1.98	0.45
1:0:81:LYS:NZ	1:0:131:ASP:H	2.14	0.44
1:0:356:ILE:HG13	1:0:360:GLN:NE2	2.32	0.44
1:1:35:LYS:HA	1:1:44:ILE:HD13	1.98	0.44
1:1:212:ARG:O	1:1:216:ARG:HD2	2.17	0.44
1:4:212:ARG:O	1:4:216:ARG:HD2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:178:LYS:HD3	1:5:178:LYS:HA	1.76	0.44
1:6:248:ASP:O	1:6:252:LYS:HG2	2.18	0.44
1:7:200:GLU:HB3	1:7:282:VAL:HG11	1.98	0.44
1:8:232:LYS:HG2	1:8:246:PHE:O	2.17	0.44
1:9:200:GLU:HB3	1:9:282:VAL:HG11	1.98	0.44
1:A:397:GLU:HA	1:A:400:TYR:CE2	2.52	0.44
1:AC:35:LYS:HA	1:AC:44:ILE:HD13	1.98	0.44
1:AC:346:GLU:C	1:AC:350:LYS:HZ2	2.25	0.44
1:AC:397:GLU:HA	1:AC:400:TYR:CE2	2.52	0.44
1:AD:244:LYS:HE2	1:AG:58:GLN:O	2.17	0.44
1:AE:212:ARG:O	1:AE:216:ARG:HD2	2.16	0.44
1:AG:35:LYS:HA	1:AG:44:ILE:HD13	1.98	0.44
1:AG:346:GLU:C	1:AG:350:LYS:HZ2	2.25	0.44
1:AK:81:LYS:NZ	1:AK:131:ASP:H	2.14	0.44
1:AM:178:LYS:HD3	1:AM:178:LYS:HA	1.76	0.44
1:AO:81:LYS:NZ	1:AO:131:ASP:H	2.14	0.44
1:AP:232:LYS:HG2	1:AP:246:PHE:O	2.17	0.44
1:AS:356:ILE:HG13	1:AS:360:GLN:NE2	2.32	0.44
1:C:35:LYS:HA	1:C:44:ILE:HD13	1.98	0.44
1:E:212:ARG:O	1:E:216:ARG:HD2	2.16	0.44
1:H:292:ARG:NE	1:H:349:VAL:HG22	2.32	0.44
1:H:356:ILE:HG13	1:H:360:GLN:NE2	2.32	0.44
1:J:232:LYS:HG2	1:J:246:PHE:O	2.17	0.44
1:J:292:ARG:NE	1:J:349:VAL:HG22	2.32	0.44
1:K:356:ILE:HG13	1:K:360:GLN:NE2	2.32	0.44
1:L:81:LYS:NZ	1:L:131:ASP:H	2.14	0.44
1:L:248:ASP:O	1:L:252:LYS:HG2	2.18	0.44
1:L:292:ARG:NE	1:L:349:VAL:HG22	2.33	0.44
1:M:292:ARG:NE	1:M:349:VAL:HG22	2.33	0.44
1:M:356:ILE:HG13	1:M:360:GLN:NE2	2.32	0.44
1:N:356:ILE:HG13	1:N:360:GLN:NE2	2.32	0.44
1:P:292:ARG:NE	1:P:349:VAL:HG22	2.32	0.44
1:Q:212:ARG:O	1:Q:216:ARG:HD2	2.16	0.44
1:Q:232:LYS:HG2	1:Q:246:PHE:O	2.17	0.44
1:R:248:ASP:O	1:R:252:LYS:HG2	2.17	0.44
1:S:397:GLU:HA	1:S:400:TYR:CE2	2.52	0.44
1:Y:292:ARG:NE	1:Y:349:VAL:HG22	2.33	0.44
1:c:200:GLU:HB3	1:c:282:VAL:HG11	1.98	0.44
1:d:292:ARG:NE	1:d:349:VAL:HG22	2.32	0.44
1:g:248:ASP:O	1:g:252:LYS:HG2	2.18	0.44
1:g:292:ARG:NE	1:g:349:VAL:HG22	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:356:ILE:HG13	1:i:360:GLN:NE2	2.32	0.44
1:k:81:LYS:NZ	1:k:131:ASP:H	2.14	0.44
1:k:200:GLU:HB3	1:k:282:VAL:HG11	1.98	0.44
1:k:397:GLU:HA	1:k:400:TYR:CE2	2.52	0.44
1:m:397:GLU:HA	1:m:400:TYR:CE2	2.52	0.44
1:p:292:ARG:NE	1:p:349:VAL:HG22	2.32	0.44
1:r:248:ASP:O	1:r:252:LYS:HG2	2.18	0.44
1:r:346:GLU:C	1:r:350:LYS:HZ2	2.25	0.44
1:s:81:LYS:NZ	1:s:131:ASP:H	2.14	0.44
1:t:209:HIS:CE1	1:u:229:LYS:HZ1	2.36	0.44
1:u:397:GLU:HA	1:u:400:TYR:CE2	2.52	0.44
1:v:206:ALA:HA	1:w:230:ALA:HB1	1.99	0.44
1:v:212:ARG:O	1:v:216:ARG:HD2	2.16	0.44
1:x:35:LYS:HA	1:x:44:ILE:HD13	1.98	0.44
1:y:81:LYS:NZ	1:y:131:ASP:H	2.14	0.44
1:5:35:LYS:HA	1:5:44:ILE:HD13	1.98	0.44
1:5:81:LYS:NZ	1:5:131:ASP:H	2.14	0.44
1:6:139:ASP:OD2	1:6:141:GLU:HB2	2.16	0.44
1:6:356:ILE:HG13	1:6:360:GLN:NE2	2.32	0.44
1:7:48:VAL:O	1:7:63:ILE:HA	2.18	0.44
1:8:397:GLU:HA	1:8:400:TYR:CE2	2.52	0.44
1:9:35:LYS:HA	1:9:44:ILE:HD13	1.98	0.44
1:9:139:ASP:OD2	1:9:141:GLU:HB2	2.16	0.44
1:9:292:ARG:NE	1:9:349:VAL:HG22	2.33	0.44
1:AA:35:LYS:HA	1:AA:44:ILE:HD13	1.98	0.44
1:AA:81:LYS:NZ	1:AA:131:ASP:H	2.15	0.44
1:AC:195:TYR:CE2	1:AD:237:CYS:O	2.70	0.44
1:AC:248:ASP:O	1:AC:252:LYS:HG2	2.18	0.44
1:AE:232:LYS:HG2	1:AE:246:PHE:O	2.17	0.44
1:AE:292:ARG:NE	1:AE:349:VAL:HG22	2.32	0.44
1:AF:248:ASP:O	1:AF:252:LYS:HG2	2.18	0.44
1:AJ:356:ILE:HG13	1:AJ:360:GLN:NE2	2.32	0.44
1:AM:292:ARG:NE	1:AM:349:VAL:HG22	2.32	0.44
1:AN:248:ASP:O	1:AN:252:LYS:HG2	2.18	0.44
1:AQ:212:ARG:O	1:AQ:216:ARG:HD2	2.16	0.44
1:AR:232:LYS:HG2	1:AR:246:PHE:O	2.17	0.44
1:AS:139:ASP:OD2	1:AS:141:GLU:HB2	2.16	0.44
1:AS:248:ASP:O	1:AS:252:LYS:HG2	2.18	0.44
1:C:292:ARG:NE	1:C:349:VAL:HG22	2.32	0.44
1:F:81:LYS:NZ	1:F:131:ASP:H	2.14	0.44
1:F:292:ARG:NE	1:F:349:VAL:HG22	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:48:VAL:O	1:G:63:ILE:HA	2.18	0.44
1:G:81:LYS:NZ	1:G:131:ASP:H	2.14	0.44
1:G:232:LYS:HG2	1:G:246:PHE:O	2.17	0.44
1:H:232:LYS:HG2	1:H:246:PHE:O	2.17	0.44
1:H:248:ASP:O	1:H:252:LYS:HG2	2.18	0.44
1:I:356:ILE:HG13	1:I:360:GLN:NE2	2.32	0.44
1:J:248:ASP:O	1:J:252:LYS:HG2	2.18	0.44
1:K:81:LYS:NZ	1:K:131:ASP:H	2.14	0.44
1:L:139:ASP:OD2	1:L:141:GLU:HB2	2.16	0.44
1:O:292:ARG:NE	1:O:349:VAL:HG22	2.32	0.44
1:T:35:LYS:HA	1:T:44:ILE:HD13	1.98	0.44
1:Y:200:GLU:HB3	1:Y:282:VAL:HG11	1.98	0.44
1:Y:212:ARG:O	1:Y:216:ARG:HD2	2.16	0.44
1:Z:35:LYS:HA	1:Z:44:ILE:HD13	1.98	0.44
1:Z:292:ARG:NE	1:Z:349:VAL:HG22	2.33	0.44
1:a:248:ASP:O	1:a:252:LYS:HG2	2.18	0.44
1:b:139:ASP:OD2	1:b:141:GLU:HB2	2.16	0.44
1:b:292:ARG:NE	1:b:349:VAL:HG22	2.32	0.44
1:c:397:GLU:HA	1:c:400:TYR:CE2	2.52	0.44
1:g:225:LEU:HD21	1:g:254:GLU:HA	1.97	0.44
1:i:292:ARG:NE	1:i:349:VAL:HG22	2.33	0.44
1:j:206:ALA:HA	1:k:230:ALA:HB1	1.99	0.44
1:j:248:ASP:O	1:j:252:LYS:HG2	2.18	0.44
1:j:292:ARG:NE	1:j:349:VAL:HG22	2.32	0.44
1:j:356:ILE:HG13	1:j:360:GLN:NE2	2.32	0.44
1:n:397:GLU:HA	1:n:400:TYR:CE2	2.52	0.44
1:o:292:ARG:NE	1:o:349:VAL:HG22	2.32	0.44
1:o:356:ILE:HG13	1:o:360:GLN:NE2	2.32	0.44
1:p:139:ASP:OD2	1:p:141:GLU:HB2	2.16	0.44
1:p:372:HIS:HA	1:q:396:LEU:HD13	1.98	0.44
1:q:139:ASP:OD2	1:q:141:GLU:HB2	2.16	0.44
1:q:292:ARG:NE	1:q:349:VAL:HG22	2.32	0.44
1:t:309:LYS:HE3	1:t:309:LYS:HB3	1.82	0.44
1:u:356:ILE:HG13	1:u:360:GLN:NE2	2.32	0.44
1:w:248:ASP:O	1:w:252:LYS:HG2	2.17	0.44
1:x:139:ASP:OD2	1:x:141:GLU:HB2	2.16	0.44
1:y:200:GLU:HB3	1:y:282:VAL:HG11	1.98	0.44
1:y:292:ARG:NE	1:y:349:VAL:HG22	2.32	0.44
1:1:292:ARG:NE	1:1:349:VAL:HG22	2.32	0.44
1:3:139:ASP:OD2	1:3:141:GLU:HB2	2.16	0.44
1:4:292:ARG:NE	1:4:349:VAL:HG22	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:248:ASP:O	1:5:252:LYS:HG2	2.18	0.44
1:6:292:ARG:NE	1:6:349:VAL:HG22	2.32	0.44
1:8:206:ALA:HA	1:9:230:ALA:HB1	1.99	0.44
1:9:48:VAL:O	1:9:63:ILE:HA	2.18	0.44
1:9:212:ARG:O	1:9:216:ARG:HD2	2.17	0.44
1:A:35:LYS:HA	1:A:44:ILE:HD13	1.98	0.44
1:A:48:VAL:O	1:A:63:ILE:HA	2.18	0.44
1:AA:292:ARG:NE	1:AA:349:VAL:HG22	2.32	0.44
1:AB:356:ILE:HG13	1:AB:360:GLN:NE2	2.32	0.44
1:AG:248:ASP:O	1:AG:252:LYS:HG2	2.18	0.44
1:AH:397:GLU:HA	1:AH:400:TYR:CE2	2.52	0.44
1:AI:35:LYS:HA	1:AI:44:ILE:HD13	1.98	0.44
1:AK:35:LYS:HA	1:AK:44:ILE:HD13	1.98	0.44
1:AK:178:LYS:HD3	1:AK:178:LYS:HA	1.76	0.44
1:AL:178:LYS:HD3	1:AL:178:LYS:HA	1.76	0.44
1:AL:232:LYS:HG2	1:AL:246:PHE:O	2.17	0.44
1:AL:248:ASP:O	1:AL:252:LYS:HG2	2.18	0.44
1:AL:356:ILE:HG13	1:AL:360:GLN:NE2	2.32	0.44
1:AO:200:GLU:HB3	1:AO:282:VAL:HG11	1.98	0.44
1:AO:212:ARG:O	1:AO:216:ARG:HD2	2.16	0.44
1:AR:212:ARG:O	1:AR:216:ARG:HD2	2.16	0.44
1:E:397:GLU:HA	1:E:400:TYR:CE2	2.52	0.44
1:F:248:ASP:O	1:F:252:LYS:HG2	2.18	0.44
1:G:248:ASP:O	1:G:252:LYS:HG2	2.18	0.44
1:K:248:ASP:O	1:K:252:LYS:HG2	2.17	0.44
1:L:356:ILE:HG13	1:L:360:GLN:NE2	2.32	0.44
1:N:292:ARG:NE	1:N:349:VAL:HG22	2.32	0.44
1:O:356:ILE:HG13	1:O:360:GLN:NE2	2.32	0.44
1:P:48:VAL:O	1:P:63:ILE:HA	2.18	0.44
1:P:139:ASP:OD2	1:P:141:GLU:HB2	2.16	0.44
1:V:35:LYS:HA	1:V:44:ILE:HD13	1.98	0.44
1:V:48:VAL:O	1:V:63:ILE:HA	2.18	0.44
1:X:292:ARG:NE	1:X:349:VAL:HG22	2.33	0.44
1:Y:232:LYS:HG2	1:Y:246:PHE:O	2.17	0.44
1:b:248:ASP:O	1:b:252:LYS:HG2	2.18	0.44
1:b:356:ILE:HG13	1:b:360:GLN:NE2	2.32	0.44
1:c:292:ARG:NE	1:c:349:VAL:HG22	2.32	0.44
1:e:248:ASP:O	1:e:252:LYS:HG2	2.18	0.44
1:g:232:LYS:HG2	1:g:246:PHE:O	2.17	0.44
1:h:48:VAL:O	1:h:63:ILE:HA	2.18	0.44
1:h:248:ASP:O	1:h:252:LYS:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:212:ARG:O	1:k:216:ARG:HD2	2.17	0.44
1:l:35:LYS:HA	1:l:44:ILE:HD13	1.98	0.44
1:l:139:ASP:OD2	1:l:141:GLU:HB2	2.16	0.44
1:m:356:ILE:HG13	1:m:360:GLN:NE2	2.32	0.44
1:n:48:VAL:O	1:n:63:ILE:HA	2.18	0.44
1:n:248:ASP:O	1:n:252:LYS:HG2	2.18	0.44
1:q:232:LYS:HG2	1:q:246:PHE:O	2.17	0.44
1:r:292:ARG:NE	1:r:349:VAL:HG22	2.33	0.44
1:t:35:LYS:HA	1:t:44:ILE:HD13	1.98	0.44
1:t:81:LYS:NZ	1:t:131:ASP:H	2.14	0.44
1:t:139:ASP:OD2	1:t:141:GLU:HB2	2.16	0.44
1:v:356:ILE:HG13	1:v:360:GLN:NE2	2.32	0.44
1:x:248:ASP:O	1:x:252:LYS:HG2	2.18	0.44
1:0:248:ASP:O	1:0:252:LYS:HG2	2.18	0.44
1:1:48:VAL:O	1:1:63:ILE:HA	2.18	0.44
1:1:248:ASP:O	1:1:252:LYS:HG2	2.18	0.44
1:2:48:VAL:O	1:2:63:ILE:HA	2.18	0.44
1:2:248:ASP:O	1:2:252:LYS:HG2	2.18	0.44
1:2:397:GLU:HA	1:2:400:TYR:CE2	2.52	0.44
1:3:292:ARG:NE	1:3:349:VAL:HG22	2.33	0.44
1:7:292:ARG:NE	1:7:349:VAL:HG22	2.32	0.44
1:AC:292:ARG:NE	1:AC:349:VAL:HG22	2.33	0.44
1:AF:397:GLU:HA	1:AF:400:TYR:CE2	2.52	0.44
1:AI:248:ASP:O	1:AI:252:LYS:HG2	2.18	0.44
1:AJ:48:VAL:O	1:AJ:63:ILE:HA	2.18	0.44
1:AJ:310:GLU:HB3	1:AJ:331:TYR:CE1	2.53	0.44
1:AK:248:ASP:O	1:AK:252:LYS:HG2	2.18	0.44
1:AN:292:ARG:NE	1:AN:349:VAL:HG22	2.32	0.44
1:AN:397:GLU:HA	1:AN:400:TYR:CE2	2.52	0.44
1:AP:212:ARG:O	1:AP:216:ARG:HD2	2.16	0.44
1:AR:81:LYS:NZ	1:AR:131:ASP:H	2.14	0.44
1:B:248:ASP:O	1:B:252:LYS:HG2	2.18	0.44
1:C:232:LYS:HG2	1:C:246:PHE:O	2.17	0.44
1:C:368:GLY:C	1:D:400:TYR:HD2	2.26	0.44
1:D:248:ASP:O	1:D:252:LYS:HG2	2.18	0.44
1:E:35:LYS:HA	1:E:44:ILE:HD13	1.98	0.44
1:G:292:ARG:NE	1:G:349:VAL:HG22	2.33	0.44
1:I:292:ARG:NE	1:I:349:VAL:HG22	2.32	0.44
1:J:356:ILE:HG13	1:J:360:GLN:NE2	2.32	0.44
1:M:248:ASP:O	1:M:252:LYS:HG2	2.18	0.44
1:N:248:ASP:O	1:N:252:LYS:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:48:VAL:O	1:O:63:ILE:HA	2.18	0.44
1:O:232:LYS:HG2	1:O:246:PHE:O	2.17	0.44
1:Q:310:GLU:HB3	1:Q:331:TYR:CE1	2.53	0.44
1:S:195:TYR:CE2	1:T:237:CYS:O	2.70	0.44
1:S:232:LYS:HG2	1:S:246:PHE:O	2.17	0.44
1:S:292:ARG:NE	1:S:349:VAL:HG22	2.32	0.44
1:T:248:ASP:O	1:T:252:LYS:HG2	2.18	0.44
1:T:356:ILE:HG13	1:T:360:GLN:NE2	2.32	0.44
1:U:178:LYS:HD3	1:U:178:LYS:HA	1.76	0.44
1:W:248:ASP:O	1:W:252:LYS:HG2	2.18	0.44
1:W:356:ILE:HG13	1:W:360:GLN:NE2	2.32	0.44
1:X:48:VAL:O	1:X:63:ILE:HA	2.18	0.44
1:X:356:ILE:HG13	1:X:360:GLN:NE2	2.32	0.44
1:Z:248:ASP:O	1:Z:252:LYS:HG2	2.18	0.44
1:a:292:ARG:NE	1:a:349:VAL:HG22	2.32	0.44
1:b:48:VAL:O	1:b:63:ILE:HA	2.18	0.44
1:c:212:ARG:O	1:c:216:ARG:HD2	2.16	0.44
1:f:356:ILE:HG13	1:f:360:GLN:NE2	2.32	0.44
1:i:248:ASP:O	1:i:252:LYS:HG2	2.18	0.44
1:j:139:ASP:OD2	1:j:141:GLU:HB2	2.16	0.44
1:j:368:GLY:C	1:k:400:TYR:HD2	2.26	0.44
1:m:139:ASP:OD2	1:m:141:GLU:HB2	2.16	0.44
1:m:292:ARG:NE	1:m:349:VAL:HG22	2.32	0.44
1:p:248:ASP:O	1:p:252:LYS:HG2	2.18	0.44
1:p:309:LYS:HE3	1:p:309:LYS:HB3	1.82	0.44
1:q:310:GLU:HB3	1:q:331:TYR:CE1	2.53	0.44
1:t:232:LYS:HG2	1:t:246:PHE:O	2.17	0.44
1:t:356:ILE:HG13	1:t:360:GLN:NE2	2.32	0.44
1:v:139:ASP:OD2	1:v:141:GLU:HB2	2.16	0.44
1:v:292:ARG:NE	1:v:349:VAL:HG22	2.33	0.44
1:w:292:ARG:NE	1:w:349:VAL:HG22	2.33	0.44
1:y:48:VAL:O	1:y:63:ILE:HA	2.18	0.44
1:2:202:HIS:HE1	1:3:237:CYS:HB3	1.83	0.44
1:2:356:ILE:HG13	1:2:360:GLN:NE2	2.32	0.44
1:3:48:VAL:O	1:3:63:ILE:HA	2.18	0.44
1:5:232:LYS:HG2	1:5:246:PHE:O	2.17	0.44
1:7:232:LYS:HG2	1:7:246:PHE:O	2.17	0.44
1:8:356:ILE:HG13	1:8:360:GLN:NE2	2.32	0.44
1:AA:248:ASP:O	1:AA:252:LYS:HG2	2.18	0.44
1:AB:212:ARG:O	1:AB:216:ARG:HD2	2.16	0.44
1:AB:346:GLU:C	1:AB:350:LYS:HZ2	2.25	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:248:ASP:O	1:AD:252:LYS:HG2	2.18	0.44
1:AD:356:ILE:HG13	1:AD:360:GLN:NE2	2.32	0.44
1:AG:292:ARG:NE	1:AG:349:VAL:HG22	2.32	0.44
1:AH:248:ASP:O	1:AH:252:LYS:HG2	2.18	0.44
1:AH:309:LYS:HE3	1:AH:309:LYS:HB3	1.82	0.44
1:AL:48:VAL:O	1:AL:63:ILE:HA	2.18	0.44
1:AM:356:ILE:HG13	1:AM:360:GLN:NE2	2.32	0.44
1:AN:356:ILE:HG13	1:AN:360:GLN:NE2	2.32	0.44
1:AP:80:GLU:HA	1:AP:83:LYS:NZ	2.33	0.44
1:AP:178:LYS:HD3	1:AP:178:LYS:HA	1.76	0.44
1:AP:292:ARG:NE	1:AP:349:VAL:HG22	2.32	0.44
1:AP:310:GLU:HB3	1:AP:331:TYR:CE1	2.53	0.44
1:AQ:48:VAL:O	1:AQ:63:ILE:HA	2.18	0.44
1:AQ:310:GLU:HB3	1:AQ:331:TYR:CE1	2.53	0.44
1:AQ:397:GLU:HA	1:AQ:400:TYR:CE2	2.52	0.44
1:AR:35:LYS:HA	1:AR:44:ILE:HD13	1.98	0.44
1:AS:80:GLU:HA	1:AS:83:LYS:NZ	2.33	0.44
1:C:48:VAL:O	1:C:63:ILE:HA	2.18	0.44
1:D:397:GLU:HA	1:D:400:TYR:CE2	2.52	0.44
1:H:48:VAL:O	1:H:63:ILE:HA	2.18	0.44
1:H:80:GLU:HA	1:H:83:LYS:NZ	2.33	0.44
1:I:81:LYS:NZ	1:I:131:ASP:H	2.14	0.44
1:J:139:ASP:OD2	1:J:141:GLU:HB2	2.16	0.44
1:M:48:VAL:O	1:M:63:ILE:HA	2.18	0.44
1:M:202:HIS:HB3	1:N:233:LEU:HD12	1.99	0.44
1:N:48:VAL:O	1:N:63:ILE:HA	2.18	0.44
1:N:310:GLU:HB3	1:N:331:TYR:CE1	2.53	0.44
1:P:248:ASP:O	1:P:252:LYS:HG2	2.18	0.44
1:P:346:GLU:C	1:P:350:LYS:HZ2	2.25	0.44
1:P:356:ILE:HG13	1:P:360:GLN:NE2	2.32	0.44
1:Q:248:ASP:O	1:Q:252:LYS:HG2	2.18	0.44
1:R:48:VAL:O	1:R:63:ILE:HA	2.18	0.44
1:R:292:ARG:NE	1:R:349:VAL:HG22	2.32	0.44
1:R:397:GLU:HA	1:R:400:TYR:CE2	2.52	0.44
1:T:48:VAL:O	1:T:63:ILE:HA	2.18	0.44
1:T:81:LYS:NZ	1:T:131:ASP:H	2.14	0.44
1:U:35:LYS:HA	1:U:44:ILE:HD13	1.98	0.44
1:U:248:ASP:O	1:U:252:LYS:HG2	2.18	0.44
1:V:292:ARG:NE	1:V:349:VAL:HG22	2.32	0.44
1:W:48:VAL:O	1:W:63:ILE:HA	2.18	0.44
1:X:248:ASP:O	1:X:252:LYS:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:310:GLU:HB3	1:Z:331:TYR:CE1	2.53	0.44
1:b:212:ARG:O	1:b:216:ARG:HD2	2.16	0.44
1:c:232:LYS:HG2	1:c:246:PHE:O	2.17	0.44
1:f:35:LYS:HA	1:f:44:ILE:HD13	1.98	0.44
1:f:48:VAL:O	1:f:63:ILE:HA	2.18	0.44
1:f:248:ASP:O	1:f:252:LYS:HG2	2.18	0.44
1:f:292:ARG:NE	1:f:349:VAL:HG22	2.33	0.44
1:f:310:GLU:HB3	1:f:331:TYR:CE1	2.53	0.44
1:h:35:LYS:HA	1:h:44:ILE:HD13	1.98	0.44
1:h:292:ARG:NE	1:h:349:VAL:HG22	2.33	0.44
1:h:310:GLU:HB3	1:h:331:TYR:CE1	2.53	0.44
1:k:167:VAL:HG13	1:k:170:LYS:HZ2	1.82	0.44
1:k:292:ARG:NE	1:k:349:VAL:HG22	2.33	0.44
1:n:356:ILE:HG13	1:n:360:GLN:NE2	2.32	0.44
1:s:310:GLU:HB3	1:s:331:TYR:CE1	2.53	0.44
1:t:248:ASP:O	1:t:252:LYS:HG2	2.18	0.44
1:w:35:LYS:HA	1:w:44:ILE:HD13	1.98	0.44
1:w:80:GLU:HA	1:w:83:LYS:NZ	2.33	0.44
1:x:356:ILE:HG13	1:x:360:GLN:NE2	2.32	0.44
1:0:232:LYS:HG2	1:0:246:PHE:O	2.17	0.44
1:1:356:ILE:HG13	1:1:360:GLN:NE2	2.32	0.44
1:2:310:GLU:HB3	1:2:331:TYR:CE1	2.53	0.44
1:3:356:ILE:HG13	1:3:360:GLN:NE2	2.32	0.44
1:4:48:VAL:O	1:4:63:ILE:HA	2.18	0.44
1:4:346:GLU:C	1:4:350:LYS:HZ2	2.25	0.44
1:4:356:ILE:HG13	1:4:360:GLN:NE2	2.32	0.44
1:5:397:GLU:HA	1:5:400:TYR:CE2	2.52	0.44
1:6:80:GLU:HA	1:6:83:LYS:NZ	2.33	0.44
1:AA:178:LYS:HD3	1:AA:178:LYS:HA	1.76	0.44
1:AC:167:VAL:HG13	1:AC:170:LYS:HZ2	1.82	0.44
1:AD:397:GLU:HA	1:AD:400:TYR:CE2	2.52	0.44
1:AE:48:VAL:O	1:AE:63:ILE:HA	2.18	0.44
1:AE:81:LYS:NZ	1:AE:131:ASP:H	2.14	0.44
1:AE:235:GLY:HA2	1:AE:238:GLU:CD	2.43	0.44
1:AE:248:ASP:O	1:AE:252:LYS:HG2	2.18	0.44
1:AE:310:GLU:HB3	1:AE:331:TYR:CE1	2.53	0.44
1:AF:80:GLU:HA	1:AF:83:LYS:NZ	2.33	0.44
1:AG:80:GLU:HA	1:AG:83:LYS:NZ	2.33	0.44
1:AH:292:ARG:NE	1:AH:349:VAL:HG22	2.33	0.44
1:AH:356:ILE:HG13	1:AH:360:GLN:NE2	2.32	0.44
1:AJ:292:ARG:NE	1:AJ:349:VAL:HG22	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:35:LYS:HA	1:AM:44:ILE:HD13	1.98	0.44
1:AN:80:GLU:HA	1:AN:83:LYS:NZ	2.33	0.44
1:AN:310:GLU:HB3	1:AN:331:TYR:CE1	2.53	0.44
1:AO:248:ASP:O	1:AO:252:LYS:HG2	2.18	0.44
1:AP:248:ASP:O	1:AP:252:LYS:HG2	2.18	0.44
1:AR:80:GLU:HA	1:AR:83:LYS:NZ	2.33	0.44
1:AR:292:ARG:NE	1:AR:349:VAL:HG22	2.32	0.44
1:B:292:ARG:NE	1:B:349:VAL:HG22	2.32	0.44
1:B:310:GLU:HB3	1:B:331:TYR:CE1	2.53	0.44
1:E:80:GLU:HA	1:E:83:LYS:NZ	2.33	0.44
1:E:81:LYS:NZ	1:E:131:ASP:H	2.14	0.44
1:F:48:VAL:O	1:F:63:ILE:HA	2.18	0.44
1:F:310:GLU:HB3	1:F:331:TYR:CE1	2.53	0.44
1:G:35:LYS:HA	1:G:44:ILE:HD13	1.98	0.44
1:G:310:GLU:HB3	1:G:331:TYR:CE1	2.53	0.44
1:H:310:GLU:HB3	1:H:331:TYR:CE1	2.53	0.44
1:I:397:GLU:HA	1:I:400:TYR:CE2	2.52	0.44
1:K:310:GLU:HB3	1:K:331:TYR:CE1	2.53	0.44
1:L:48:VAL:O	1:L:63:ILE:HA	2.18	0.44
1:N:80:GLU:HA	1:N:83:LYS:NZ	2.33	0.44
1:Q:80:GLU:HA	1:Q:83:LYS:NZ	2.33	0.44
1:R:310:GLU:HB3	1:R:331:TYR:CE1	2.53	0.44
1:V:81:LYS:NZ	1:V:131:ASP:H	2.14	0.44
1:W:80:GLU:HA	1:W:83:LYS:NZ	2.33	0.44
1:X:35:LYS:HA	1:X:44:ILE:HD13	1.98	0.44
1:X:178:LYS:HD3	1:X:178:LYS:HA	1.76	0.44
1:Y:80:GLU:HA	1:Y:83:LYS:NZ	2.33	0.44
1:Y:397:GLU:HA	1:Y:400:TYR:CE2	2.52	0.44
1:Z:48:VAL:O	1:Z:63:ILE:HA	2.18	0.44
1:Z:139:ASP:OD2	1:Z:141:GLU:HB2	2.16	0.44
1:Z:356:ILE:HG13	1:Z:360:GLN:NE2	2.32	0.44
1:b:81:LYS:NZ	1:b:131:ASP:H	2.14	0.44
1:d:48:VAL:O	1:d:63:ILE:HA	2.18	0.44
1:d:80:GLU:HA	1:d:83:LYS:NZ	2.33	0.44
1:e:397:GLU:HA	1:e:400:TYR:CE2	2.52	0.44
1:h:356:ILE:HG13	1:h:360:GLN:NE2	2.32	0.44
1:i:35:LYS:HA	1:i:44:ILE:HD13	1.98	0.44
1:i:48:VAL:O	1:i:63:ILE:HA	2.18	0.44
1:j:48:VAL:O	1:j:63:ILE:HA	2.18	0.44
1:j:212:ARG:O	1:j:216:ARG:HD2	2.16	0.44
1:j:395:LYS:HB3	1:j:395:LYS:HE2	1.71	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:48:VAL:O	1:l:63:ILE:HA	2.18	0.44
1:o:48:VAL:O	1:o:63:ILE:HA	2.18	0.44
1:q:248:ASP:O	1:q:252:LYS:HG2	2.18	0.44
1:s:48:VAL:O	1:s:63:ILE:HA	2.18	0.44
1:s:248:ASP:O	1:s:252:LYS:HG2	2.18	0.44
1:t:202:HIS:HB3	1:u:233:LEU:HD12	1.99	0.44
1:u:248:ASP:O	1:u:252:LYS:HG2	2.17	0.44
1:v:35:LYS:HA	1:v:44:ILE:HD13	1.98	0.44
1:v:48:VAL:O	1:v:63:ILE:HA	2.18	0.44
1:v:81:LYS:NZ	1:v:131:ASP:H	2.14	0.44
1:v:232:LYS:HG2	1:v:246:PHE:O	2.17	0.44
1:w:139:ASP:OD2	1:w:141:GLU:HB2	2.16	0.44
1:x:80:GLU:HA	1:x:83:LYS:NZ	2.33	0.44
1:x:232:LYS:HG2	1:x:246:PHE:O	2.17	0.44
1:y:248:ASP:O	1:y:252:LYS:HG2	2.18	0.44
1:y:310:GLU:HB3	1:y:331:TYR:CE1	2.53	0.44
1:0:292:ARG:NE	1:0:349:VAL:HG22	2.32	0.44
1:1:81:LYS:NZ	1:1:131:ASP:H	2.14	0.44
1:3:35:LYS:HA	1:3:44:ILE:HD13	1.98	0.44
1:3:248:ASP:O	1:3:252:LYS:HG2	2.18	0.44
1:4:310:GLU:HB3	1:4:331:TYR:CE1	2.53	0.44
1:5:48:VAL:O	1:5:63:ILE:HA	2.18	0.44
1:6:48:VAL:O	1:6:63:ILE:HA	2.18	0.44
1:8:80:GLU:HA	1:8:83:LYS:NZ	2.33	0.44
1:9:80:GLU:HA	1:9:83:LYS:NZ	2.33	0.44
1:9:248:ASP:O	1:9:252:LYS:HG2	2.18	0.44
1:9:310:GLU:HB3	1:9:331:TYR:CE1	2.53	0.44
1:A:292:ARG:NE	1:A:349:VAL:HG22	2.32	0.44
1:A:310:GLU:HB3	1:A:331:TYR:CE1	2.53	0.44
1:AA:232:LYS:HG2	1:AA:246:PHE:O	2.17	0.44
1:AB:48:VAL:O	1:AB:63:ILE:HA	2.18	0.44
1:AB:232:LYS:HG2	1:AB:246:PHE:O	2.17	0.44
1:AB:248:ASP:O	1:AB:252:LYS:HG2	2.18	0.44
1:AC:202:HIS:HE1	1:AD:237:CYS:HB3	1.83	0.44
1:AC:235:GLY:HA2	1:AC:238:GLU:CD	2.43	0.44
1:AD:81:LYS:NZ	1:AD:131:ASP:H	2.14	0.44
1:AE:35:LYS:HA	1:AE:44:ILE:HD13	1.98	0.44
1:AE:393:LEU:HD23	1:AE:396:LEU:HD12	2.00	0.44
1:AG:397:GLU:HA	1:AG:400:TYR:CE2	2.52	0.44
1:AI:48:VAL:O	1:AI:63:ILE:HA	2.18	0.44
1:AJ:80:GLU:HA	1:AJ:83:LYS:NZ	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:235:GLY:HA2	1:AJ:238:GLU:CD	2.43	0.44
1:AL:235:GLY:HA2	1:AL:238:GLU:CD	2.43	0.44
1:AO:292:ARG:NE	1:AO:349:VAL:HG22	2.32	0.44
1:AO:356:ILE:HG13	1:AO:360:GLN:NE2	2.32	0.44
1:AR:48:VAL:O	1:AR:63:ILE:HA	2.18	0.44
1:AS:35:LYS:HA	1:AS:44:ILE:HD13	1.98	0.44
1:D:356:ILE:HG13	1:D:360:GLN:NE2	2.32	0.44
1:I:235:GLY:HA2	1:I:238:GLU:CD	2.43	0.44
1:J:389:TRP:O	1:J:393:LEU:HG	2.18	0.44
1:K:139:ASP:OD2	1:K:141:GLU:HB2	2.16	0.44
1:K:235:GLY:HA2	1:K:238:GLU:CD	2.43	0.44
1:N:346:GLU:C	1:N:350:LYS:HZ2	2.25	0.44
1:O:80:GLU:HA	1:O:83:LYS:NZ	2.33	0.44
1:U:356:ILE:HG13	1:U:360:GLN:NE2	2.32	0.44
1:V:202:HIS:HB3	1:W:233:LEU:HD12	1.99	0.44
1:W:310:GLU:HB3	1:W:331:TYR:CE1	2.53	0.44
1:X:212:ARG:O	1:X:216:ARG:HD2	2.17	0.44
1:b:35:LYS:HA	1:b:44:ILE:HD13	1.98	0.44
1:c:80:GLU:HA	1:c:83:LYS:NZ	2.33	0.44
1:e:310:GLU:HB3	1:e:331:TYR:CE1	2.53	0.44
1:e:356:ILE:HG13	1:e:360:GLN:NE2	2.32	0.44
1:g:35:LYS:HA	1:g:44:ILE:HD13	1.98	0.44
1:g:48:VAL:O	1:g:63:ILE:HA	2.18	0.44
1:j:80:GLU:HA	1:j:83:LYS:NZ	2.33	0.44
1:j:310:GLU:HB3	1:j:331:TYR:CE1	2.53	0.44
1:j:382:ALA:CB	1:k:386:ALA:HB2	2.44	0.44
1:l:235:GLY:HA2	1:l:238:GLU:CD	2.43	0.44
1:l:248:ASP:O	1:l:252:LYS:HG2	2.18	0.44
1:n:292:ARG:NE	1:n:349:VAL:HG22	2.33	0.44
1:o:35:LYS:HA	1:o:44:ILE:HD13	1.98	0.44
1:o:248:ASP:O	1:o:252:LYS:HG2	2.18	0.44
1:p:235:GLY:HA2	1:p:238:GLU:CD	2.43	0.44
1:r:310:GLU:HB3	1:r:331:TYR:CE1	2.53	0.44
1:t:48:VAL:O	1:t:63:ILE:HA	2.18	0.44
1:t:80:GLU:HA	1:t:83:LYS:NZ	2.33	0.44
1:t:235:GLY:HA2	1:t:238:GLU:CD	2.43	0.44
1:t:310:GLU:HB3	1:t:331:TYR:CE1	2.53	0.44
1:u:35:LYS:HA	1:u:44:ILE:HD13	1.98	0.44
1:v:80:GLU:HA	1:v:83:LYS:NZ	2.33	0.44
1:v:346:GLU:C	1:v:350:LYS:HZ2	2.25	0.44
1:x:397:GLU:HA	1:x:400:TYR:CE2	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:248:ASP:O	1:z:252:LYS:HG2	2.18	0.44
1:z:292:ARG:NE	1:z:349:VAL:HG22	2.32	0.44
1:z:356:ILE:HG13	1:z:360:GLN:NE2	2.32	0.44
1:0:292:ARG:HD3	1:0:352:MET:SD	2.58	0.44
1:4:393:LEU:HD23	1:4:396:LEU:HD12	2.00	0.44
1:5:80:GLU:HA	1:5:83:LYS:NZ	2.33	0.44
1:5:191:LYS:HD3	1:5:192:LEU:HD22	2.00	0.44
1:5:389:TRP:O	1:5:393:LEU:HG	2.18	0.44
1:6:202:HIS:HB3	1:7:233:LEU:HD12	1.99	0.44
1:7:310:GLU:HB3	1:7:331:TYR:CE1	2.53	0.44
1:7:393:LEU:HD23	1:7:396:LEU:HD12	2.00	0.44
1:8:139:ASP:OD2	1:8:141:GLU:HB2	2.16	0.44
1:8:292:ARG:HD3	1:8:352:MET:SD	2.58	0.44
1:8:292:ARG:NE	1:8:349:VAL:HG22	2.32	0.44
1:A:235:GLY:HA2	1:A:238:GLU:CD	2.43	0.44
1:A:248:ASP:O	1:A:252:LYS:HG2	2.18	0.44
1:A:356:ILE:HG13	1:A:360:GLN:NE2	2.32	0.44
1:AA:48:VAL:O	1:AA:63:ILE:HA	2.18	0.44
1:AB:235:GLY:HA2	1:AB:238:GLU:CD	2.43	0.44
1:AC:310:GLU:HB3	1:AC:331:TYR:CE1	2.53	0.44
1:AE:80:GLU:HA	1:AE:83:LYS:NZ	2.33	0.44
1:AF:35:LYS:HA	1:AF:44:ILE:HD13	1.98	0.44
1:AF:292:ARG:NE	1:AF:349:VAL:HG22	2.32	0.44
1:AG:235:GLY:HA2	1:AG:238:GLU:CD	2.43	0.44
1:AH:81:LYS:NZ	1:AH:131:ASP:H	2.15	0.44
1:AI:80:GLU:HA	1:AI:83:LYS:NZ	2.33	0.44
1:AK:48:VAL:O	1:AK:63:ILE:HA	2.18	0.44
1:AK:80:GLU:HA	1:AK:83:LYS:NZ	2.33	0.44
1:AL:310:GLU:HB3	1:AL:331:TYR:CE1	2.53	0.44
1:AM:235:GLY:HA2	1:AM:238:GLU:CD	2.43	0.44
1:AN:48:VAL:O	1:AN:63:ILE:HA	2.18	0.44
1:AR:235:GLY:HA2	1:AR:238:GLU:CD	2.43	0.44
1:C:235:GLY:HA2	1:C:238:GLU:CD	2.43	0.44
1:C:292:ARG:HD3	1:C:352:MET:SD	2.58	0.44
1:C:310:GLU:HB3	1:C:331:TYR:CE1	2.53	0.44
1:E:232:LYS:HG2	1:E:246:PHE:O	2.17	0.44
1:E:248:ASP:O	1:E:252:LYS:HG2	2.18	0.44
1:F:178:LYS:HD3	1:F:178:LYS:HA	1.76	0.44
1:F:356:ILE:HG13	1:F:360:GLN:NE2	2.32	0.44
1:F:389:TRP:O	1:F:393:LEU:HG	2.18	0.44
1:K:292:ARG:NE	1:K:349:VAL:HG22	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:310:GLU:HB3	1:L:331:TYR:CE1	2.53	0.44
1:M:232:LYS:HG2	1:M:246:PHE:O	2.17	0.44
1:N:235:GLY:HA2	1:N:238:GLU:CD	2.43	0.44
1:N:309:LYS:HE3	1:N:309:LYS:HB3	1.82	0.44
1:O:248:ASP:O	1:O:252:LYS:HG2	2.18	0.44
1:P:80:GLU:HA	1:P:83:LYS:NZ	2.33	0.44
1:S:202:HIS:HE1	1:T:237:CYS:HB3	1.83	0.44
1:T:393:LEU:HD23	1:T:396:LEU:HD12	2.00	0.44
1:U:48:VAL:O	1:U:63:ILE:HA	2.18	0.44
1:V:248:ASP:O	1:V:252:LYS:HG2	2.18	0.44
1:V:356:ILE:HG13	1:V:360:GLN:NE2	2.32	0.44
1:X:81:LYS:NZ	1:X:131:ASP:H	2.14	0.44
1:Y:48:VAL:O	1:Y:63:ILE:HA	2.18	0.44
1:a:35:LYS:HA	1:a:44:ILE:HD13	1.98	0.44
1:a:48:VAL:O	1:a:63:ILE:HA	2.18	0.44
1:a:80:GLU:HA	1:a:83:LYS:NZ	2.33	0.44
1:d:235:GLY:HA2	1:d:238:GLU:CD	2.43	0.44
1:d:292:ARG:HD3	1:d:352:MET:SD	2.58	0.44
1:d:389:TRP:O	1:d:393:LEU:HG	2.18	0.44
1:g:292:ARG:HD3	1:g:352:MET:SD	2.58	0.44
1:i:191:LYS:HD3	1:i:192:LEU:HD22	2.00	0.44
1:i:232:LYS:HG2	1:i:246:PHE:O	2.17	0.44
1:i:395:LYS:HB3	1:i:395:LYS:HE2	1.71	0.44
1:k:80:GLU:HA	1:k:83:LYS:NZ	2.33	0.44
1:k:389:TRP:O	1:k:393:LEU:HG	2.18	0.44
1:m:310:GLU:HB3	1:m:331:TYR:CE1	2.53	0.44
1:n:310:GLU:HB3	1:n:331:TYR:CE1	2.53	0.44
1:o:232:LYS:HG2	1:o:246:PHE:O	2.17	0.44
1:p:48:VAL:O	1:p:63:ILE:HA	2.18	0.44
1:q:48:VAL:O	1:q:63:ILE:HA	2.18	0.44
1:q:80:GLU:HA	1:q:83:LYS:NZ	2.33	0.44
1:r:235:GLY:HA2	1:r:238:GLU:CD	2.43	0.44
1:r:389:TRP:O	1:r:393:LEU:HG	2.18	0.44
1:s:80:GLU:HA	1:s:83:LYS:NZ	2.33	0.44
1:s:232:LYS:HG2	1:s:246:PHE:O	2.17	0.44
1:t:292:ARG:HD3	1:t:352:MET:SD	2.58	0.44
1:u:292:ARG:NE	1:u:349:VAL:HG22	2.32	0.44
1:v:235:GLY:HA2	1:v:238:GLU:CD	2.43	0.44
1:y:356:ILE:HG13	1:y:360:GLN:NE2	2.32	0.44
1:z:397:GLU:HA	1:z:400:TYR:CE2	2.52	0.44
1:0:35:LYS:HA	1:0:44:ILE:HD13	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:80:GLU:HA	1:1:83:LYS:NZ	2.33	0.44
1:2:178:LYS:HD3	1:2:178:LYS:HA	1.76	0.44
1:2:292:ARG:NE	1:2:349:VAL:HG22	2.33	0.44
1:2:346:GLU:C	1:2:350:LYS:HZ2	2.25	0.44
1:2:393:LEU:HD23	1:2:396:LEU:HD12	2.00	0.44
1:5:356:ILE:HG13	1:5:360:GLN:NE2	2.32	0.44
1:6:292:ARG:HD3	1:6:352:MET:SD	2.58	0.44
1:7:389:TRP:O	1:7:393:LEU:HG	2.18	0.44
1:8:48:VAL:O	1:8:63:ILE:HA	2.18	0.44
1:9:292:ARG:HD3	1:9:352:MET:SD	2.58	0.44
1:A:202:HIS:HB3	1:B:233:LEU:HD12	1.99	0.44
1:AB:292:ARG:NE	1:AB:349:VAL:HG22	2.33	0.44
1:AC:80:GLU:HA	1:AC:83:LYS:NZ	2.33	0.44
1:AD:35:LYS:HA	1:AD:44:ILE:HD13	1.98	0.44
1:AD:292:ARG:NE	1:AD:349:VAL:HG22	2.33	0.44
1:AE:292:ARG:HD3	1:AE:352:MET:SD	2.58	0.44
1:AG:356:ILE:HG13	1:AG:360:GLN:NE2	2.32	0.44
1:AI:389:TRP:O	1:AI:393:LEU:HG	2.18	0.44
1:AJ:346:GLU:C	1:AJ:350:LYS:HZ2	2.25	0.44
1:AL:80:GLU:HA	1:AL:83:LYS:NZ	2.33	0.44
1:AM:48:VAL:O	1:AM:63:ILE:HA	2.18	0.44
1:AM:248:ASP:O	1:AM:252:LYS:HG2	2.18	0.44
1:AO:389:TRP:O	1:AO:393:LEU:HG	2.18	0.44
1:AQ:80:GLU:HA	1:AQ:83:LYS:NZ	2.33	0.44
1:AQ:235:GLY:HA2	1:AQ:238:GLU:CD	2.43	0.44
1:AR:248:ASP:O	1:AR:252:LYS:HG2	2.18	0.44
1:B:80:GLU:HA	1:B:83:LYS:NZ	2.33	0.44
1:C:80:GLU:HA	1:C:83:LYS:NZ	2.33	0.44
1:D:310:GLU:HB3	1:D:331:TYR:CE1	2.53	0.44
1:E:310:GLU:HB3	1:E:331:TYR:CE1	2.53	0.44
1:G:292:ARG:HD3	1:G:352:MET:SD	2.58	0.44
1:I:232:LYS:HG2	1:I:246:PHE:O	2.17	0.44
1:I:310:GLU:HB3	1:I:331:TYR:CE1	2.53	0.44
1:K:80:GLU:HA	1:K:83:LYS:NZ	2.33	0.44
1:O:191:LYS:HD3	1:O:192:LEU:HD22	2.00	0.44
1:O:292:ARG:HD3	1:O:352:MET:SD	2.58	0.44
1:O:368:GLY:C	1:P:400:TYR:HD2	2.26	0.44
1:P:235:GLY:HA2	1:P:238:GLU:CD	2.43	0.44
1:P:310:GLU:HB3	1:P:331:TYR:CE1	2.53	0.44
1:Q:235:GLY:HA2	1:Q:238:GLU:CD	2.43	0.44
1:R:235:GLY:HA2	1:R:238:GLU:CD	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:356:ILE:HG13	1:S:360:GLN:NE2	2.32	0.44
1:V:292:ARG:HD3	1:V:352:MET:SD	2.58	0.44
1:Y:356:ILE:HG13	1:Y:360:GLN:NE2	2.32	0.44
1:i:328:GLU:HG3	1:i:332:ARG:NH2	2.33	0.44
1:m:248:ASP:O	1:m:252:LYS:HG2	2.18	0.44
1:r:80:GLU:HA	1:r:83:LYS:NZ	2.33	0.44
1:r:356:ILE:HG13	1:r:360:GLN:NE2	2.32	0.44
1:u:80:GLU:HA	1:u:83:LYS:NZ	2.33	0.44
1:w:292:ARG:HD3	1:w:352:MET:SD	2.58	0.44
1:x:328:GLU:HG3	1:x:332:ARG:NH2	2.33	0.44
1:y:80:GLU:HA	1:y:83:LYS:NZ	2.33	0.44
1:z:80:GLU:HA	1:z:83:LYS:NZ	2.33	0.44
1:z:232:LYS:HG2	1:z:246:PHE:O	2.17	0.44
1:z:389:TRP:O	1:z:393:LEU:HG	2.18	0.44
1:0:397:GLU:HA	1:0:400:TYR:CE2	2.52	0.43
1:1:393:LEU:HD23	1:1:396:LEU:HD12	2.00	0.43
1:2:389:TRP:O	1:2:393:LEU:HG	2.18	0.43
1:3:328:GLU:HG3	1:3:332:ARG:NH2	2.33	0.43
1:3:389:TRP:O	1:3:393:LEU:HG	2.18	0.43
1:4:35:LYS:HA	1:4:44:ILE:HD13	1.98	0.43
1:4:235:GLY:HA2	1:4:238:GLU:CD	2.43	0.43
1:5:292:ARG:HD3	1:5:352:MET:SD	2.58	0.43
1:8:368:GLY:C	1:9:400:TYR:HD2	2.26	0.43
1:A:232:LYS:HG2	1:A:246:PHE:O	2.17	0.43
1:A:292:ARG:HD3	1:A:352:MET:SD	2.58	0.43
1:AA:80:GLU:HA	1:AA:83:LYS:NZ	2.33	0.43
1:AC:356:ILE:HG13	1:AC:360:GLN:NE2	2.32	0.43
1:AC:393:LEU:HD23	1:AC:396:LEU:HD12	2.00	0.43
1:AD:393:LEU:HD23	1:AD:396:LEU:HD12	2.00	0.43
1:AE:356:ILE:HG13	1:AE:360:GLN:NE2	2.32	0.43
1:AF:328:GLU:HG3	1:AF:332:ARG:NH2	2.33	0.43
1:AH:292:ARG:HD3	1:AH:352:MET:SD	2.58	0.43
1:AI:191:LYS:HD3	1:AI:192:LEU:HD22	2.00	0.43
1:AK:232:LYS:HG2	1:AK:246:PHE:O	2.17	0.43
1:AK:389:TRP:O	1:AK:393:LEU:HG	2.18	0.43
1:AQ:292:ARG:HD3	1:AQ:352:MET:SD	2.58	0.43
1:AR:395:LYS:HB3	1:AR:395:LYS:HE2	1.71	0.43
1:AS:292:ARG:HD3	1:AS:352:MET:SD	2.58	0.43
1:C:356:ILE:HG13	1:C:360:GLN:NE2	2.32	0.43
1:C:389:TRP:O	1:C:393:LEU:HG	2.18	0.43
1:D:292:ARG:NE	1:D:349:VAL:HG22	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:235:GLY:HA2	1:E:238:GLU:CD	2.43	0.43
1:F:235:GLY:HA2	1:F:238:GLU:CD	2.43	0.43
1:G:356:ILE:HG13	1:G:360:GLN:NE2	2.32	0.43
1:I:48:VAL:O	1:I:63:ILE:HA	2.18	0.43
1:J:235:GLY:HA2	1:J:238:GLU:CD	2.43	0.43
1:M:80:GLU:HA	1:M:83:LYS:NZ	2.33	0.43
1:M:191:LYS:HD3	1:M:192:LEU:HD22	2.00	0.43
1:M:292:ARG:HD3	1:M:352:MET:SD	2.58	0.43
1:N:393:LEU:HD23	1:N:396:LEU:HD12	2.00	0.43
1:O:372:HIS:CB	1:P:400:TYR:HE2	2.31	0.43
1:O:389:TRP:O	1:O:393:LEU:HG	2.18	0.43
1:Q:292:ARG:NE	1:Q:349:VAL:HG22	2.32	0.43
1:R:356:ILE:HG13	1:R:360:GLN:NE2	2.32	0.43
1:S:235:GLY:HA2	1:S:238:GLU:CD	2.43	0.43
1:U:292:ARG:NE	1:U:349:VAL:HG22	2.32	0.43
1:V:310:GLU:HB3	1:V:331:TYR:CE1	2.53	0.43
1:X:310:GLU:HB3	1:X:331:TYR:CE1	2.53	0.43
1:c:48:VAL:O	1:c:63:ILE:HA	2.18	0.43
1:e:292:ARG:NE	1:e:349:VAL:HG22	2.33	0.43
1:f:178:LYS:HD3	1:f:178:LYS:HA	1.76	0.43
1:f:235:GLY:HA2	1:f:238:GLU:CD	2.43	0.43
1:i:292:ARG:HD3	1:i:352:MET:SD	2.58	0.43
1:k:292:ARG:HD3	1:k:352:MET:SD	2.58	0.43
1:k:356:ILE:HG13	1:k:360:GLN:NE2	2.32	0.43
1:n:393:LEU:HD23	1:n:396:LEU:HD12	2.00	0.43
1:o:191:LYS:HD3	1:o:192:LEU:HD22	2.00	0.43
1:o:328:GLU:HG3	1:o:332:ARG:NH2	2.33	0.43
1:o:389:TRP:O	1:o:393:LEU:HG	2.18	0.43
1:p:80:GLU:HA	1:p:83:LYS:NZ	2.33	0.43
1:p:310:GLU:HB3	1:p:331:TYR:CE1	2.53	0.43
1:q:292:ARG:HD3	1:q:352:MET:SD	2.58	0.43
1:s:393:LEU:HD23	1:s:396:LEU:HD12	2.00	0.43
1:v:248:ASP:O	1:v:252:LYS:HG2	2.18	0.43
1:w:328:GLU:HG3	1:w:332:ARG:NH2	2.33	0.43
1:x:48:VAL:O	1:x:63:ILE:HA	2.18	0.43
1:x:389:TRP:O	1:x:393:LEU:HG	2.18	0.43
1:y:292:ARG:HD3	1:y:352:MET:SD	2.58	0.43
1:y:389:TRP:O	1:y:393:LEU:HG	2.18	0.43
1:y:393:LEU:HD23	1:y:396:LEU:HD12	2.00	0.43
1:z:328:GLU:HG3	1:z:332:ARG:NH2	2.33	0.43
1:0:80:GLU:HA	1:0:83:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:310:GLU:HB3	1:1:331:TYR:CE1	2.53	0.43
1:3:232:LYS:HG2	1:3:246:PHE:O	2.17	0.43
1:4:80:GLU:HA	1:4:83:LYS:NZ	2.33	0.43
1:4:248:ASP:O	1:4:252:LYS:HG2	2.18	0.43
1:4:292:ARG:HD3	1:4:352:MET:SD	2.58	0.43
1:4:389:TRP:O	1:4:393:LEU:HG	2.18	0.43
1:6:191:LYS:HD3	1:6:192:LEU:HD22	2.00	0.43
1:6:235:GLY:HA2	1:6:238:GLU:CD	2.43	0.43
1:7:80:GLU:HA	1:7:83:LYS:NZ	2.33	0.43
1:9:356:ILE:HG13	1:9:360:GLN:NE2	2.32	0.43
1:AB:292:ARG:HD3	1:AB:352:MET:SD	2.58	0.43
1:AC:48:VAL:O	1:AC:63:ILE:HA	2.18	0.43
1:AD:48:VAL:O	1:AD:63:ILE:HA	2.18	0.43
1:AI:328:GLU:HG3	1:AI:332:ARG:NH2	2.33	0.43
1:AK:191:LYS:HD3	1:AK:192:LEU:HD22	2.00	0.43
1:AL:393:LEU:HD23	1:AL:396:LEU:HD12	2.00	0.43
1:AM:80:GLU:HA	1:AM:83:LYS:NZ	2.33	0.43
1:AM:393:LEU:HD23	1:AM:396:LEU:HD12	2.00	0.43
1:AO:310:GLU:HB3	1:AO:331:TYR:CE1	2.53	0.43
1:AP:235:GLY:HA2	1:AP:238:GLU:CD	2.43	0.43
1:AQ:292:ARG:NE	1:AQ:349:VAL:HG22	2.32	0.43
1:AQ:389:TRP:O	1:AQ:393:LEU:HG	2.18	0.43
1:AS:310:GLU:HB3	1:AS:331:TYR:CE1	2.53	0.43
1:C:206:ALA:HA	1:D:230:ALA:HB1	1.99	0.43
1:E:393:LEU:HD23	1:E:396:LEU:HD12	2.00	0.43
1:H:191:LYS:HD3	1:H:192:LEU:HD22	2.00	0.43
1:H:235:GLY:HA2	1:H:238:GLU:CD	2.43	0.43
1:I:80:GLU:HA	1:I:83:LYS:NZ	2.33	0.43
1:I:80:GLU:HG3	1:I:81:LYS:HG3	2.01	0.43
1:I:393:LEU:HD23	1:I:396:LEU:HD12	2.00	0.43
1:K:292:ARG:HD3	1:K:352:MET:SD	2.58	0.43
1:L:235:GLY:HA2	1:L:238:GLU:CD	2.43	0.43
1:L:389:TRP:O	1:L:393:LEU:HG	2.18	0.43
1:M:389:TRP:O	1:M:393:LEU:HG	2.18	0.43
1:R:389:TRP:O	1:R:393:LEU:HG	2.18	0.43
1:S:310:GLU:HB3	1:S:331:TYR:CE1	2.53	0.43
1:T:292:ARG:NE	1:T:349:VAL:HG22	2.32	0.43
1:T:389:TRP:O	1:T:393:LEU:HG	2.18	0.43
1:W:178:LYS:HD3	1:W:178:LYS:HA	1.76	0.43
1:Y:248:ASP:O	1:Y:252:LYS:HG2	2.18	0.43
1:Z:235:GLY:HA2	1:Z:238:GLU:CD	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:389:TRP:O	1:Z:393:LEU:HG	2.18	0.43
1:c:389:TRP:O	1:c:393:LEU:HG	2.18	0.43
1:d:310:GLU:HB3	1:d:331:TYR:CE1	2.53	0.43
1:e:80:GLU:HA	1:e:83:LYS:NZ	2.33	0.43
1:f:389:TRP:O	1:f:393:LEU:HG	2.18	0.43
1:g:191:LYS:HD3	1:g:192:LEU:HD22	2.00	0.43
1:h:235:GLY:HA2	1:h:238:GLU:CD	2.43	0.43
1:i:389:TRP:O	1:i:393:LEU:HG	2.18	0.43
1:l:191:LYS:HD3	1:l:192:LEU:HD22	2.00	0.43
1:m:48:VAL:O	1:m:63:ILE:HA	2.18	0.43
1:n:35:LYS:HA	1:n:44:ILE:HD13	1.98	0.43
1:n:235:GLY:HA2	1:n:238:GLU:CD	2.43	0.43
1:p:356:ILE:HG13	1:p:360:GLN:NE2	2.32	0.43
1:s:80:GLU:HG3	1:s:81:LYS:HG3	2.01	0.43
1:s:191:LYS:HD3	1:s:192:LEU:HD22	2.00	0.43
1:s:292:ARG:HD3	1:s:352:MET:SD	2.58	0.43
1:s:389:TRP:O	1:s:393:LEU:HG	2.18	0.43
1:u:292:ARG:HD3	1:u:352:MET:SD	2.58	0.43
1:u:328:GLU:HG3	1:u:332:ARG:NH2	2.33	0.43
1:u:393:LEU:HD23	1:u:396:LEU:HD12	2.00	0.43
1:v:292:ARG:HD3	1:v:352:MET:SD	2.58	0.43
1:v:310:GLU:HB3	1:v:331:TYR:CE1	2.53	0.43
1:x:292:ARG:NE	1:x:349:VAL:HG22	2.32	0.43
1:y:346:GLU:C	1:y:350:LYS:HZ2	2.25	0.43
1:0:389:TRP:O	1:0:393:LEU:HG	2.18	0.43
1:1:233:LEU:HD12	1:z:202:HIS:HB3	2.00	0.43
1:1:292:ARG:HD3	1:1:352:MET:SD	2.58	0.43
1:1:389:TRP:O	1:1:393:LEU:HG	2.18	0.43
1:2:35:LYS:HA	1:2:44:ILE:HD13	1.98	0.43
1:2:235:GLY:HA2	1:2:238:GLU:CD	2.43	0.43
1:3:191:LYS:HD3	1:3:192:LEU:HD22	2.00	0.43
1:5:80:GLU:HG3	1:5:81:LYS:HG3	2.01	0.43
1:6:80:GLU:HG3	1:6:81:LYS:HG3	2.01	0.43
1:8:191:LYS:HD3	1:8:192:LEU:HD22	2.00	0.43
1:8:235:GLY:HA2	1:8:238:GLU:CD	2.43	0.43
1:8:328:GLU:HG3	1:8:332:ARG:NH2	2.33	0.43
1:8:382:ALA:CB	1:9:386:ALA:HB2	2.44	0.43
1:9:393:LEU:HD23	1:9:396:LEU:HD12	2.00	0.43
1:AA:80:GLU:HG3	1:AA:81:LYS:HG3	2.01	0.43
1:AA:310:GLU:HB3	1:AA:331:TYR:CE1	2.53	0.43
1:AD:80:GLU:HA	1:AD:83:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:82:TYR:CE1	1:AD:129:SER:HB3	2.54	0.43
1:AF:190:GLU:O	1:AF:193:LYS:HG2	2.19	0.43
1:AH:35:LYS:HA	1:AH:44:ILE:HD13	1.98	0.43
1:AH:48:VAL:O	1:AH:63:ILE:HA	2.18	0.43
1:AI:232:LYS:HG2	1:AI:246:PHE:O	2.17	0.43
1:AI:292:ARG:HD3	1:AI:352:MET:SD	2.58	0.43
1:AJ:393:LEU:HD23	1:AJ:396:LEU:HD12	2.00	0.43
1:AK:310:GLU:HB3	1:AK:331:TYR:CE1	2.53	0.43
1:AM:190:GLU:O	1:AM:193:LYS:HG2	2.19	0.43
1:AM:191:LYS:HD3	1:AM:192:LEU:HD22	2.00	0.43
1:AM:232:LYS:HG2	1:AM:246:PHE:O	2.17	0.43
1:AM:310:GLU:HB3	1:AM:331:TYR:CE1	2.53	0.43
1:AN:389:TRP:O	1:AN:393:LEU:HG	2.18	0.43
1:AO:80:GLU:HA	1:AO:83:LYS:NZ	2.33	0.43
1:AO:393:LEU:HD23	1:AO:396:LEU:HD12	2.00	0.43
1:AO:395:LYS:HB3	1:AO:395:LYS:HE2	1.71	0.43
1:AP:389:TRP:O	1:AP:393:LEU:HG	2.18	0.43
1:AR:389:TRP:O	1:AR:393:LEU:HG	2.18	0.43
1:C:382:ALA:CB	1:D:386:ALA:HB2	2.44	0.43
1:E:292:ARG:HD3	1:E:352:MET:SD	2.58	0.43
1:I:248:ASP:O	1:I:252:LYS:HG2	2.18	0.43
1:I:292:ARG:HD3	1:I:352:MET:SD	2.58	0.43
1:J:80:GLU:HA	1:J:83:LYS:NZ	2.33	0.43
1:M:328:GLU:HG3	1:M:332:ARG:NH2	2.33	0.43
1:N:389:TRP:O	1:N:393:LEU:HG	2.18	0.43
1:O:328:GLU:HG3	1:O:332:ARG:NH2	2.33	0.43
1:R:395:LYS:HE2	1:R:395:LYS:HB3	1.71	0.43
1:S:389:TRP:O	1:S:393:LEU:HG	2.18	0.43
1:T:80:GLU:HA	1:T:83:LYS:NZ	2.33	0.43
1:U:310:GLU:HB3	1:U:331:TYR:CE1	2.53	0.43
1:Y:235:GLY:HA2	1:Y:238:GLU:CD	2.43	0.43
1:Z:80:GLU:HA	1:Z:83:LYS:NZ	2.33	0.43
1:a:191:LYS:HD3	1:a:192:LEU:HD22	2.00	0.43
1:a:292:ARG:HD3	1:a:352:MET:SD	2.58	0.43
1:c:292:ARG:HD3	1:c:352:MET:SD	2.58	0.43
1:d:248:ASP:O	1:d:252:LYS:HG2	2.17	0.43
1:l:80:GLU:HA	1:l:83:LYS:NZ	2.33	0.43
1:l:292:ARG:HD3	1:l:352:MET:SD	2.58	0.43
1:m:292:ARG:HD3	1:m:352:MET:SD	2.58	0.43
1:n:389:TRP:O	1:n:393:LEU:HG	2.18	0.43
1:n:395:LYS:HB3	1:n:395:LYS:HE2	1.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:191:LYS:HD3	1:q:192:LEU:HD22	2.00	0.43
1:q:393:LEU:HD23	1:q:396:LEU:HD12	2.00	0.43
1:t:393:LEU:HD23	1:t:396:LEU:HD12	2.00	0.43
1:v:309:LYS:HE3	1:v:309:LYS:HB3	1.83	0.43
1:v:368:GLY:C	1:w:400:TYR:HD2	2.26	0.43
1:x:292:ARG:HD3	1:x:352:MET:SD	2.58	0.43
1:z:48:VAL:O	1:z:63:ILE:HA	2.18	0.43
1:z:235:GLY:HA2	1:z:238:GLU:CD	2.43	0.43
1:0:80:GLU:HG3	1:0:81:LYS:HG3	2.01	0.43
1:3:82:TYR:CE1	1:3:129:SER:HB3	2.54	0.43
1:3:309:LYS:HE3	1:3:309:LYS:HB3	1.82	0.43
1:6:82:TYR:CE1	1:6:129:SER:HB3	2.54	0.43
1:8:80:GLU:HG3	1:8:81:LYS:HG3	2.01	0.43
1:8:82:TYR:CE1	1:8:129:SER:HB3	2.54	0.43
1:8:372:HIS:CB	1:9:400:TYR:HE2	2.31	0.43
1:A:80:GLU:HA	1:A:83:LYS:NZ	2.33	0.43
1:A:389:TRP:O	1:A:393:LEU:HG	2.18	0.43
1:AA:389:TRP:O	1:AA:393:LEU:HG	2.18	0.43
1:AB:310:GLU:HB3	1:AB:331:TYR:CE1	2.53	0.43
1:AC:190:GLU:O	1:AC:193:LYS:HG2	2.19	0.43
1:AG:178:LYS:HD3	1:AG:178:LYS:HA	1.76	0.43
1:AH:80:GLU:HA	1:AH:83:LYS:NZ	2.33	0.43
1:AH:82:TYR:CE1	1:AH:129:SER:HB3	2.54	0.43
1:AH:393:LEU:HD23	1:AH:396:LEU:HD12	2.00	0.43
1:AI:190:GLU:O	1:AI:193:LYS:HG2	2.19	0.43
1:AI:310:GLU:HB3	1:AI:331:TYR:CE1	2.53	0.43
1:AI:393:LEU:HD23	1:AI:396:LEU:HD12	2.00	0.43
1:AK:190:GLU:O	1:AK:193:LYS:HG2	2.19	0.43
1:AN:235:GLY:HA2	1:AN:238:GLU:CD	2.43	0.43
1:AO:80:GLU:HG3	1:AO:81:LYS:HG3	2.01	0.43
1:AP:173:ASP:HB3	1:AP:179:GLU:HB2	2.01	0.43
1:AQ:309:LYS:HE3	1:AQ:309:LYS:HB3	1.82	0.43
1:AS:80:GLU:HG3	1:AS:81:LYS:HG3	2.01	0.43
1:C:80:GLU:HG3	1:C:81:LYS:HG3	2.01	0.43
1:I:191:LYS:HD3	1:I:192:LEU:HD22	2.00	0.43
1:J:48:VAL:O	1:J:63:ILE:HA	2.18	0.43
1:J:190:GLU:O	1:J:193:LYS:HG2	2.19	0.43
1:J:310:GLU:HB3	1:J:331:TYR:CE1	2.53	0.43
1:M:235:GLY:HA2	1:M:238:GLU:CD	2.43	0.43
1:M:310:GLU:HB3	1:M:331:TYR:CE1	2.53	0.43
1:O:206:ALA:HA	1:P:230:ALA:HB1	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:235:GLY:HA2	1:O:238:GLU:CD	2.43	0.43
1:P:309:LYS:HE3	1:P:309:LYS:HB3	1.82	0.43
1:Q:292:ARG:HD3	1:Q:352:MET:SD	2.58	0.43
1:R:80:GLU:HA	1:R:83:LYS:NZ	2.33	0.43
1:R:178:LYS:HD3	1:R:178:LYS:HA	1.76	0.43
1:R:292:ARG:HD3	1:R:352:MET:SD	2.58	0.43
1:S:48:VAL:O	1:S:63:ILE:HA	2.18	0.43
1:S:80:GLU:HA	1:S:83:LYS:NZ	2.33	0.43
1:S:190:GLU:O	1:S:193:LYS:HG2	2.19	0.43
1:S:248:ASP:O	1:S:252:LYS:HG2	2.18	0.43
1:S:328:GLU:HG3	1:S:332:ARG:NH2	2.33	0.43
1:T:309:LYS:HE3	1:T:309:LYS:HB3	1.82	0.43
1:W:191:LYS:HD3	1:W:192:LEU:HD22	2.00	0.43
1:W:235:GLY:HA2	1:W:238:GLU:CD	2.43	0.43
1:X:235:GLY:HA2	1:X:238:GLU:CD	2.43	0.43
1:X:292:ARG:HD3	1:X:352:MET:SD	2.58	0.43
1:Y:328:GLU:HG3	1:Y:332:ARG:NH2	2.33	0.43
1:Y:389:TRP:O	1:Y:393:LEU:HG	2.18	0.43
1:Z:190:GLU:O	1:Z:193:LYS:HG2	2.19	0.43
1:Z:393:LEU:HD23	1:Z:396:LEU:HD12	2.00	0.43
1:b:80:GLU:HA	1:b:83:LYS:NZ	2.33	0.43
1:b:235:GLY:HA2	1:b:238:GLU:CD	2.43	0.43
1:b:310:GLU:HB3	1:b:331:TYR:CE1	2.53	0.43
1:b:372:HIS:CE1	1:c:393:LEU:HD22	2.53	0.43
1:c:356:ILE:HG13	1:c:360:GLN:NE2	2.32	0.43
1:f:190:GLU:O	1:f:193:LYS:HG2	2.19	0.43
1:g:80:GLU:HA	1:g:83:LYS:NZ	2.33	0.43
1:g:328:GLU:HG3	1:g:332:ARG:NH2	2.33	0.43
1:g:389:TRP:O	1:g:393:LEU:HG	2.18	0.43
1:h:389:TRP:O	1:h:393:LEU:HG	2.18	0.43
1:j:178:LYS:HD3	1:j:178:LYS:HA	1.76	0.43
1:j:389:TRP:O	1:j:393:LEU:HG	2.18	0.43
1:k:48:VAL:O	1:k:63:ILE:HA	2.18	0.43
1:k:232:LYS:HG2	1:k:246:PHE:O	2.17	0.43
1:k:328:GLU:HG3	1:k:332:ARG:NH2	2.33	0.43
1:k:393:LEU:HD23	1:k:396:LEU:HD12	2.00	0.43
1:m:80:GLU:HA	1:m:83:LYS:NZ	2.33	0.43
1:p:191:LYS:HD3	1:p:192:LEU:HD22	2.00	0.43
1:q:80:GLU:HG3	1:q:81:LYS:HG3	2.01	0.43
1:r:190:GLU:O	1:r:193:LYS:HG2	2.19	0.43
1:u:190:GLU:O	1:u:193:LYS:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:82:TYR:CE1	1:v:129:SER:HB3	2.54	0.43
1:v:393:LEU:HD23	1:v:396:LEU:HD12	2.00	0.43
1:w:389:TRP:O	1:w:393:LEU:HG	2.18	0.43
1:w:393:LEU:HD23	1:w:396:LEU:HD12	2.00	0.43
1:x:191:LYS:HD3	1:x:192:LEU:HD22	2.00	0.43
1:x:310:GLU:HB3	1:x:331:TYR:CE1	2.53	0.43
1:z:190:GLU:O	1:z:193:LYS:HG2	2.19	0.43
1:0:48:VAL:O	1:0:63:ILE:HA	2.18	0.43
1:0:393:LEU:HD23	1:0:396:LEU:HD12	2.00	0.43
1:3:310:GLU:HB3	1:3:331:TYR:CE1	2.53	0.43
1:6:310:GLU:HB3	1:6:331:TYR:CE1	2.53	0.43
1:7:235:GLY:HA2	1:7:238:GLU:CD	2.43	0.43
1:7:356:ILE:HG13	1:7:360:GLN:NE2	2.32	0.43
1:8:389:TRP:O	1:8:393:LEU:HG	2.18	0.43
1:A:80:GLU:HG3	1:A:81:LYS:HG3	2.01	0.43
1:A:393:LEU:HD23	1:A:396:LEU:HD12	2.00	0.43
1:AA:191:LYS:HD3	1:AA:192:LEU:HD22	2.00	0.43
1:AA:235:GLY:HA2	1:AA:238:GLU:CD	2.43	0.43
1:AB:80:GLU:HA	1:AB:83:LYS:NZ	2.33	0.43
1:AB:393:LEU:HD23	1:AB:396:LEU:HD12	2.00	0.43
1:AF:292:ARG:HD3	1:AF:352:MET:SD	2.58	0.43
1:AG:80:GLU:HG3	1:AG:81:LYS:HG3	2.01	0.43
1:AI:82:TYR:CE1	1:AI:129:SER:HB3	2.54	0.43
1:AK:80:GLU:HG3	1:AK:81:LYS:HG3	2.01	0.43
1:AK:328:GLU:HG3	1:AK:332:ARG:NH2	2.33	0.43
1:AK:393:LEU:HD23	1:AK:396:LEU:HD12	2.00	0.43
1:AM:58:GLN:O	1:J:244:LYS:HE2	2.19	0.43
1:AM:80:GLU:HG3	1:AM:81:LYS:HG3	2.01	0.43
1:AN:190:GLU:O	1:AN:193:LYS:HG2	2.19	0.43
1:AO:232:LYS:HG2	1:AO:246:PHE:O	2.17	0.43
1:AP:395:LYS:HB3	1:AP:395:LYS:HE2	1.71	0.43
1:AQ:356:ILE:HG13	1:AQ:360:GLN:NE2	2.32	0.43
1:AR:82:TYR:CE1	1:AR:129:SER:HB3	2.54	0.43
1:AR:393:LEU:HD23	1:AR:396:LEU:HD12	2.00	0.43
1:AS:48:VAL:O	1:AS:63:ILE:HA	2.18	0.43
1:AS:328:GLU:HG3	1:AS:332:ARG:NH2	2.33	0.43
1:AS:389:TRP:O	1:AS:393:LEU:HG	2.18	0.43
1:AS:393:LEU:HD23	1:AS:396:LEU:HD12	2.00	0.43
1:B:48:VAL:O	1:B:63:ILE:HA	2.18	0.43
1:D:80:GLU:HA	1:D:83:LYS:NZ	2.33	0.43
1:E:389:TRP:O	1:E:393:LEU:HG	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:190:GLU:O	1:H:193:LYS:HG2	2.19	0.43
1:I:190:GLU:O	1:I:193:LYS:HG2	2.19	0.43
1:K:80:GLU:HG3	1:K:81:LYS:HG3	2.01	0.43
1:O:86:PHE:HB2	1:O:281:TYR:CZ	2.54	0.43
1:O:309:LYS:HE3	1:O:309:LYS:HB3	1.82	0.43
1:Q:309:LYS:HE3	1:Q:309:LYS:HB3	1.82	0.43
1:T:310:GLU:HB3	1:T:331:TYR:CE1	2.53	0.43
1:U:190:GLU:O	1:U:193:LYS:HG2	2.19	0.43
1:U:393:LEU:HD23	1:U:396:LEU:HD12	2.00	0.43
1:W:190:GLU:O	1:W:193:LYS:HG2	2.19	0.43
1:W:389:TRP:O	1:W:393:LEU:HG	2.18	0.43
1:X:80:GLU:HA	1:X:83:LYS:NZ	2.33	0.43
1:Y:292:ARG:HD3	1:Y:352:MET:SD	2.58	0.43
1:Y:310:GLU:HB3	1:Y:331:TYR:CE1	2.53	0.43
1:Z:292:ARG:HD3	1:Z:352:MET:SD	2.58	0.43
1:c:328:GLU:HG3	1:c:332:ARG:NH2	2.33	0.43
1:d:80:GLU:HG3	1:d:81:LYS:HG3	2.01	0.43
1:d:202:HIS:HE1	1:e:237:CYS:HB3	1.83	0.43
1:f:292:ARG:HD3	1:f:352:MET:SD	2.58	0.43
1:h:393:LEU:HD23	1:h:396:LEU:HD12	2.00	0.43
1:i:310:GLU:HB3	1:i:331:TYR:CE1	2.53	0.43
1:k:235:GLY:HA2	1:k:238:GLU:CD	2.43	0.43
1:k:248:ASP:O	1:k:252:LYS:HG2	2.18	0.43
1:l:356:ILE:HG13	1:l:360:GLN:NE2	2.32	0.43
1:m:190:GLU:O	1:m:193:LYS:HG2	2.19	0.43
1:m:191:LYS:HD3	1:m:192:LEU:HD22	2.00	0.43
1:n:202:HIS:HB3	1:o:233:LEU:HD12	2.00	0.43
1:o:310:GLU:HB3	1:o:331:TYR:CE1	2.53	0.43
1:q:389:TRP:O	1:q:393:LEU:HG	2.18	0.43
1:t:190:GLU:O	1:t:193:LYS:HG2	2.19	0.43
1:0:191:LYS:HD3	1:0:192:LEU:HD22	2.00	0.43
1:2:292:ARG:HD3	1:2:352:MET:SD	2.58	0.43
1:2:320:ARG:NH2	1:AO:183:GLU:O	2.52	0.43
1:2:395:LYS:HE2	1:2:395:LYS:HB3	1.71	0.43
1:5:82:TYR:CE1	1:5:129:SER:HB3	2.54	0.43
1:5:328:GLU:HG3	1:5:332:ARG:NH2	2.33	0.43
1:7:86:PHE:HB2	1:7:281:TYR:CZ	2.54	0.43
1:7:292:ARG:HD3	1:7:352:MET:SD	2.58	0.43
1:9:235:GLY:HA2	1:9:238:GLU:CD	2.43	0.43
1:9:389:TRP:O	1:9:393:LEU:HG	2.18	0.43
1:AA:190:GLU:O	1:AA:193:LYS:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:292:ARG:HD3	1:AA:352:MET:SD	2.58	0.43
1:AA:393:LEU:HD23	1:AA:396:LEU:HD12	2.00	0.43
1:AD:190:GLU:O	1:AD:193:LYS:HG2	2.19	0.43
1:AD:292:ARG:HD3	1:AD:352:MET:SD	2.58	0.43
1:AE:190:GLU:O	1:AE:193:LYS:HG2	2.19	0.43
1:AF:389:TRP:O	1:AF:393:LEU:HG	2.18	0.43
1:AK:235:GLY:HA2	1:AK:238:GLU:CD	2.43	0.43
1:AL:292:ARG:HD3	1:AL:352:MET:SD	2.58	0.43
1:AL:292:ARG:NE	1:AL:349:VAL:HG22	2.33	0.43
1:AO:235:GLY:HA2	1:AO:238:GLU:CD	2.43	0.43
1:AO:292:ARG:HD3	1:AO:352:MET:SD	2.58	0.43
1:AQ:80:GLU:HG3	1:AQ:81:LYS:HG3	2.01	0.43
1:AS:82:TYR:CE1	1:AS:129:SER:HB3	2.54	0.43
1:B:292:ARG:HD3	1:B:352:MET:SD	2.58	0.43
1:C:248:ASP:O	1:C:252:LYS:HG2	2.18	0.43
1:C:393:LEU:HD23	1:C:396:LEU:HD12	2.00	0.43
1:D:389:TRP:O	1:D:393:LEU:HG	2.18	0.43
1:E:80:GLU:HG3	1:E:81:LYS:HG3	2.01	0.43
1:E:292:ARG:NE	1:E:349:VAL:HG22	2.32	0.43
1:G:347:ARG:HA	1:G:350:LYS:HZ2	1.83	0.43
1:H:389:TRP:O	1:H:393:LEU:HG	2.18	0.43
1:J:292:ARG:HD3	1:J:352:MET:SD	2.58	0.43
1:L:80:GLU:HA	1:L:83:LYS:NZ	2.33	0.43
1:M:82:TYR:CE1	1:M:129:SER:HB3	2.54	0.43
1:M:190:GLU:O	1:M:193:LYS:HG2	2.19	0.43
1:P:389:TRP:O	1:P:393:LEU:HG	2.18	0.43
1:Q:389:TRP:O	1:Q:393:LEU:HG	2.18	0.43
1:U:292:ARG:HD3	1:U:352:MET:SD	2.58	0.43
1:X:80:GLU:HG3	1:X:81:LYS:HG3	2.01	0.43
1:a:86:PHE:HB2	1:a:281:TYR:CZ	2.54	0.43
1:a:389:TRP:O	1:a:393:LEU:HG	2.18	0.43
1:c:235:GLY:HA2	1:c:238:GLU:CD	2.43	0.43
1:e:190:GLU:O	1:e:193:LYS:HG2	2.19	0.43
1:f:80:GLU:HA	1:f:83:LYS:NZ	2.33	0.43
1:f:80:GLU:HG3	1:f:81:LYS:HG3	2.01	0.43
1:f:393:LEU:HD23	1:f:396:LEU:HD12	2.00	0.43
1:g:86:PHE:HB2	1:g:281:TYR:CZ	2.54	0.43
1:g:190:GLU:O	1:g:193:LYS:HG2	2.19	0.43
1:g:310:GLU:HB3	1:g:331:TYR:CE1	2.53	0.43
1:h:190:GLU:O	1:h:193:LYS:HG2	2.19	0.43
1:j:235:GLY:HA2	1:j:238:GLU:CD	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:80:GLU:HG3	1:k:81:LYS:HG3	2.01	0.43
1:l:80:GLU:HG3	1:l:81:LYS:HG3	2.01	0.43
1:o:292:ARG:HD3	1:o:352:MET:SD	2.58	0.43
1:p:292:ARG:HD3	1:p:352:MET:SD	2.58	0.43
1:q:190:GLU:O	1:q:193:LYS:HG2	2.19	0.43
1:t:82:TYR:CE1	1:t:129:SER:HB3	2.54	0.43
1:t:328:GLU:HG3	1:t:332:ARG:NH2	2.33	0.43
1:u:395:LYS:HE2	1:u:395:LYS:HB3	1.71	0.43
1:v:190:GLU:O	1:v:193:LYS:HG2	2.19	0.43
1:v:389:TRP:O	1:v:393:LEU:HG	2.18	0.43
1:w:190:GLU:O	1:w:193:LYS:HG2	2.19	0.43
1:x:82:TYR:CE1	1:x:129:SER:HB3	2.54	0.43
1:z:191:LYS:HD3	1:z:192:LEU:HD22	2.00	0.43
1:0:235:GLY:HA2	1:0:238:GLU:CD	2.43	0.43
1:0:252:LYS:HA	1:0:252:LYS:HD3	1.80	0.43
1:1:82:TYR:CE1	1:1:129:SER:HB3	2.54	0.43
1:3:80:GLU:HA	1:3:83:LYS:NZ	2.33	0.43
1:3:80:GLU:HG3	1:3:81:LYS:HG3	2.01	0.43
1:3:89:PRO:HD3	1:3:281:TYR:CD1	2.54	0.43
1:4:89:PRO:HD3	1:4:281:TYR:CD1	2.54	0.43
1:5:310:GLU:HB3	1:5:331:TYR:CE1	2.53	0.43
1:5:393:LEU:HD23	1:5:396:LEU:HD12	2.00	0.43
1:6:328:GLU:HG3	1:6:332:ARG:NH2	2.33	0.43
1:6:389:TRP:O	1:6:393:LEU:HG	2.18	0.43
1:7:173:ASP:HB3	1:7:179:GLU:HB2	2.01	0.43
1:8:310:GLU:HB3	1:8:331:TYR:CE1	2.53	0.43
1:8:393:LEU:HD23	1:8:396:LEU:HD12	2.00	0.43
1:A:191:LYS:HD3	1:A:192:LEU:HD22	2.00	0.43
1:AD:86:PHE:HB2	1:AD:281:TYR:CZ	2.54	0.43
1:AE:82:TYR:CE1	1:AE:129:SER:HB3	2.54	0.43
1:AE:328:GLU:HG3	1:AE:332:ARG:NH2	2.33	0.43
1:AE:389:TRP:O	1:AE:393:LEU:HG	2.18	0.43
1:AG:190:GLU:O	1:AG:193:LYS:HG2	2.19	0.43
1:AG:389:TRP:O	1:AG:393:LEU:HG	2.18	0.43
1:AG:393:LEU:HD23	1:AG:396:LEU:HD12	2.00	0.43
1:AH:86:PHE:HB2	1:AH:281:TYR:CZ	2.54	0.43
1:AI:80:GLU:HG3	1:AI:81:LYS:HG3	2.01	0.43
1:AI:235:GLY:HA2	1:AI:238:GLU:CD	2.43	0.43
1:AK:82:TYR:CE1	1:AK:129:SER:HB3	2.54	0.43
1:AN:292:ARG:HD3	1:AN:352:MET:SD	2.58	0.43
1:AO:48:VAL:O	1:AO:63:ILE:HA	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AP:48:VAL:O	1:AP:63:ILE:HA	2.18	0.43
1:AP:328:GLU:HG3	1:AP:332:ARG:NH2	2.33	0.43
1:AR:86:PHE:HB2	1:AR:281:TYR:CZ	2.54	0.43
1:AR:310:GLU:HB3	1:AR:331:TYR:CE1	2.53	0.43
1:C:82:TYR:CE1	1:C:129:SER:HB3	2.54	0.43
1:C:191:LYS:HD3	1:C:192:LEU:HD22	2.00	0.43
1:D:173:ASP:HB3	1:D:179:GLU:HB2	2.01	0.43
1:D:190:GLU:O	1:D:193:LYS:HG2	2.19	0.43
1:D:235:GLY:HA2	1:D:238:GLU:CD	2.43	0.43
1:E:48:VAL:O	1:E:63:ILE:HA	2.18	0.43
1:E:309:LYS:HE3	1:E:309:LYS:HB3	1.82	0.43
1:E:328:GLU:HG3	1:E:332:ARG:NH2	2.33	0.43
1:G:190:GLU:O	1:G:193:LYS:HG2	2.19	0.43
1:H:86:PHE:HB2	1:H:281:TYR:CZ	2.54	0.43
1:H:292:ARG:HD3	1:H:352:MET:SD	2.58	0.43
1:J:86:PHE:HB2	1:J:281:TYR:CZ	2.54	0.43
1:K:393:LEU:HD23	1:K:396:LEU:HD12	2.00	0.43
1:L:86:PHE:HB2	1:L:281:TYR:CZ	2.54	0.43
1:L:190:GLU:O	1:L:193:LYS:HG2	2.19	0.43
1:O:173:ASP:HB3	1:O:179:GLU:HB2	2.01	0.43
1:P:178:LYS:HD3	1:P:178:LYS:HA	1.76	0.43
1:P:292:ARG:HD3	1:P:352:MET:SD	2.58	0.43
1:Q:48:VAL:O	1:Q:63:ILE:HA	2.18	0.43
1:Q:173:ASP:HB3	1:Q:179:GLU:HB2	2.01	0.43
1:S:86:PHE:HB2	1:S:281:TYR:CZ	2.54	0.43
1:S:258:ILE:HD11	1:U:47:ARG:HH11	1.84	0.43
1:S:292:ARG:HD3	1:S:352:MET:SD	2.58	0.43
1:T:190:GLU:O	1:T:193:LYS:HG2	2.19	0.43
1:U:80:GLU:HA	1:U:83:LYS:NZ	2.33	0.43
1:U:80:GLU:HG3	1:U:81:LYS:HG3	2.01	0.43
1:U:89:PRO:HD3	1:U:281:TYR:CD1	2.54	0.43
1:V:235:GLY:HA2	1:V:238:GLU:CD	2.43	0.43
1:W:328:GLU:HG3	1:W:332:ARG:NH2	2.33	0.43
1:X:347:ARG:HA	1:X:350:LYS:HZ2	1.83	0.43
1:Y:82:TYR:CE1	1:Y:129:SER:HB3	2.54	0.43
1:Y:190:GLU:O	1:Y:193:LYS:HG2	2.19	0.43
1:Z:80:GLU:HG3	1:Z:81:LYS:HG3	2.01	0.43
1:a:80:GLU:HG3	1:a:81:LYS:HG3	2.01	0.43
1:a:82:TYR:CE1	1:a:129:SER:HB3	2.54	0.43
1:a:235:GLY:HA2	1:a:238:GLU:CD	2.43	0.43
1:b:292:ARG:HD3	1:b:352:MET:SD	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:48:VAL:O	1:e:63:ILE:HA	2.18	0.43
1:i:80:GLU:HA	1:i:83:LYS:NZ	2.33	0.43
1:i:86:PHE:HB2	1:i:281:TYR:CZ	2.54	0.43
1:j:309:LYS:HB3	1:j:309:LYS:HE3	1.82	0.43
1:j:393:LEU:HD23	1:j:396:LEU:HD12	2.00	0.43
1:l:310:GLU:HB3	1:l:331:TYR:CE1	2.53	0.43
1:l:393:LEU:HD23	1:l:396:LEU:HD12	2.00	0.43
1:m:389:TRP:O	1:m:393:LEU:HG	2.18	0.43
1:o:190:GLU:O	1:o:193:LYS:HG2	2.19	0.43
1:p:86:PHE:HB2	1:p:281:TYR:CZ	2.54	0.43
1:p:389:TRP:O	1:p:393:LEU:HG	2.18	0.43
1:r:86:PHE:HB2	1:r:281:TYR:CZ	2.54	0.43
1:t:389:TRP:O	1:t:393:LEU:HG	2.18	0.43
1:u:48:VAL:O	1:u:63:ILE:HA	2.18	0.43
1:v:328:GLU:HG3	1:v:332:ARG:NH2	2.33	0.43
1:w:80:GLU:HG3	1:w:81:LYS:HG3	2.01	0.43
1:x:80:GLU:HG3	1:x:81:LYS:HG3	2.01	0.43
1:x:89:PRO:HD3	1:x:281:TYR:CD1	2.54	0.43
1:x:235:GLY:HA2	1:x:238:GLU:CD	2.43	0.43
1:y:235:GLY:HA2	1:y:238:GLU:CD	2.43	0.43
1:1:190:GLU:O	1:1:193:LYS:HG2	2.19	0.43
1:1:235:GLY:HA2	1:1:238:GLU:CD	2.43	0.43
1:1:346:GLU:C	1:1:350:LYS:HZ2	2.25	0.43
1:4:86:PHE:HB2	1:4:281:TYR:CZ	2.54	0.43
1:4:173:ASP:HB3	1:4:179:GLU:HB2	2.01	0.43
1:5:235:GLY:HA2	1:5:238:GLU:CD	2.43	0.43
1:9:86:PHE:HB2	1:9:281:TYR:CZ	2.54	0.43
1:9:214:VAL:HB	1:9:218:ARG:NH1	2.34	0.43
1:AB:86:PHE:HB2	1:AB:281:TYR:CZ	2.54	0.43
1:AB:190:GLU:O	1:AB:193:LYS:HG2	2.19	0.43
1:AC:89:PRO:HD3	1:AC:281:TYR:CD1	2.54	0.43
1:AC:292:ARG:HD3	1:AC:352:MET:SD	2.58	0.43
1:AC:389:TRP:O	1:AC:393:LEU:HG	2.18	0.43
1:AD:328:GLU:HG3	1:AD:332:ARG:NH2	2.33	0.43
1:AF:393:LEU:HD23	1:AF:396:LEU:HD12	2.00	0.43
1:AG:48:VAL:O	1:AG:63:ILE:HA	2.18	0.43
1:AG:82:TYR:CE1	1:AG:129:SER:HB3	2.54	0.43
1:AG:310:GLU:HB3	1:AG:331:TYR:CE1	2.53	0.43
1:AH:310:GLU:HB3	1:AH:331:TYR:CE1	2.53	0.43
1:AJ:389:TRP:O	1:AJ:393:LEU:HG	2.18	0.43
1:AL:89:PRO:HD3	1:AL:281:TYR:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:292:ARG:HD3	1:AM:352:MET:SD	2.58	0.43
1:AM:389:TRP:O	1:AM:393:LEU:HG	2.18	0.43
1:AN:86:PHE:HB2	1:AN:281:TYR:CZ	2.54	0.43
1:AP:86:PHE:HB2	1:AP:281:TYR:CZ	2.54	0.43
1:AP:89:PRO:HD3	1:AP:281:TYR:CD1	2.54	0.43
1:AP:292:ARG:HD3	1:AP:352:MET:SD	2.58	0.43
1:AR:292:ARG:HD3	1:AR:352:MET:SD	2.58	0.43
1:AR:328:GLU:HG3	1:AR:332:ARG:NH2	2.33	0.43
1:B:235:GLY:HA2	1:B:238:GLU:CD	2.43	0.43
1:B:356:ILE:HG13	1:B:360:GLN:NE2	2.32	0.43
1:D:48:VAL:O	1:D:63:ILE:HA	2.18	0.43
1:D:86:PHE:HB2	1:D:281:TYR:CZ	2.54	0.43
1:D:89:PRO:HD3	1:D:281:TYR:CD1	2.54	0.43
1:D:191:LYS:HD3	1:D:192:LEU:HD22	2.00	0.43
1:E:173:ASP:HB3	1:E:179:GLU:HB2	2.01	0.43
1:E:190:GLU:O	1:E:193:LYS:HG2	2.19	0.43
1:E:191:LYS:HD3	1:E:192:LEU:HD22	2.00	0.43
1:F:80:GLU:HA	1:F:83:LYS:NZ	2.33	0.43
1:F:82:TYR:CE1	1:F:129:SER:HB3	2.54	0.43
1:G:80:GLU:HG3	1:G:81:LYS:HG3	2.01	0.43
1:G:86:PHE:HB2	1:G:281:TYR:CZ	2.54	0.43
1:H:173:ASP:HB3	1:H:179:GLU:HB2	2.01	0.43
1:H:252:LYS:HA	1:H:252:LYS:HD3	1.80	0.43
1:J:393:LEU:HD23	1:J:396:LEU:HD12	2.00	0.43
1:K:48:VAL:O	1:K:63:ILE:HA	2.18	0.43
1:L:191:LYS:HD3	1:L:192:LEU:HD22	2.00	0.43
1:M:86:PHE:HB2	1:M:281:TYR:CZ	2.54	0.43
1:M:173:ASP:HB3	1:M:179:GLU:HB2	2.01	0.43
1:N:173:ASP:HB3	1:N:179:GLU:HB2	2.01	0.43
1:O:190:GLU:O	1:O:193:LYS:HG2	2.19	0.43
1:O:382:ALA:CB	1:P:386:ALA:HB2	2.44	0.43
1:P:190:GLU:O	1:P:193:LYS:HG2	2.19	0.43
1:P:393:LEU:HD23	1:P:396:LEU:HD12	2.00	0.43
1:Q:328:GLU:HG3	1:Q:332:ARG:NH2	2.33	0.43
1:R:82:TYR:CE1	1:R:129:SER:HB3	2.54	0.43
1:S:191:LYS:HD3	1:S:192:LEU:HD22	2.00	0.43
1:T:82:TYR:CE1	1:T:129:SER:HB3	2.54	0.43
1:U:235:GLY:HA2	1:U:238:GLU:CD	2.43	0.43
1:U:309:LYS:HE3	1:U:309:LYS:HB3	1.82	0.43
1:U:389:TRP:O	1:U:393:LEU:HG	2.18	0.43
1:V:80:GLU:HA	1:V:83:LYS:NZ	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:209:HIS:CE1	1:W:229:LYS:HZ1	2.36	0.43
1:W:86:PHE:HB2	1:W:281:TYR:CZ	2.54	0.43
1:Y:173:ASP:HB3	1:Y:179:GLU:HB2	2.01	0.43
1:Y:191:LYS:HD3	1:Y:192:LEU:HD22	2.00	0.43
1:Z:89:PRO:HD3	1:Z:281:TYR:CD1	2.54	0.43
1:a:190:GLU:O	1:a:193:LYS:HG2	2.19	0.43
1:b:389:TRP:O	1:b:393:LEU:HG	2.18	0.43
1:c:82:TYR:CE1	1:c:129:SER:HB3	2.54	0.43
1:c:248:ASP:O	1:c:252:LYS:HG2	2.18	0.43
1:c:318:LEU:HD13	1:h:185:THR:HG21	2.01	0.43
1:c:395:LYS:HB3	1:c:395:LYS:HE2	1.71	0.43
1:d:82:TYR:CE1	1:d:129:SER:HB3	2.54	0.43
1:e:89:PRO:HD3	1:e:281:TYR:CD1	2.54	0.43
1:e:389:TRP:O	1:e:393:LEU:HG	2.18	0.43
1:g:235:GLY:HA2	1:g:238:GLU:CD	2.43	0.43
1:i:190:GLU:O	1:i:193:LYS:HG2	2.19	0.43
1:l:389:TRP:O	1:l:393:LEU:HG	2.18	0.43
1:m:80:GLU:HG3	1:m:81:LYS:HG3	2.01	0.43
1:o:82:TYR:CE1	1:o:129:SER:HB3	2.54	0.43
1:p:89:PRO:HD3	1:p:281:TYR:CD1	2.54	0.43
1:r:48:VAL:O	1:r:63:ILE:HA	2.18	0.43
1:s:190:GLU:O	1:s:193:LYS:HG2	2.19	0.43
1:w:82:TYR:CE1	1:w:129:SER:HB3	2.54	0.43
1:w:214:VAL:HB	1:w:218:ARG:NH1	2.34	0.43
1:w:310:GLU:HB3	1:w:331:TYR:CE1	2.53	0.43
1:x:190:GLU:O	1:x:193:LYS:HG2	2.19	0.43
1:y:214:VAL:HB	1:y:218:ARG:NH1	2.34	0.43
1:0:214:VAL:HB	1:0:218:ARG:NH1	2.34	0.43
1:1:328:GLU:HG3	1:1:332:ARG:NH2	2.33	0.43
1:4:214:VAL:HB	1:4:218:ARG:NH1	2.34	0.43
1:5:190:GLU:O	1:5:193:LYS:HG2	2.19	0.43
1:5:214:VAL:HB	1:5:218:ARG:NH1	2.34	0.43
1:6:347:ARG:HA	1:6:350:LYS:HZ2	1.84	0.43
1:7:248:ASP:O	1:7:252:LYS:HG2	2.18	0.43
1:8:98:LYS:HE3	1:y:101:PHE:HD2	1.83	0.43
1:9:82:TYR:CE1	1:9:129:SER:HB3	2.54	0.43
1:A:82:TYR:CE1	1:A:129:SER:HB3	2.54	0.43
1:AA:202:HIS:HB3	1:AB:233:LEU:HD12	2.00	0.43
1:AB:89:PRO:HD3	1:AB:281:TYR:CD1	2.54	0.43
1:AC:80:GLU:HG3	1:AC:81:LYS:HG3	2.01	0.43
1:AC:328:GLU:HG3	1:AC:332:ARG:NH2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:310:GLU:HB3	1:AD:331:TYR:CE1	2.53	0.43
1:AE:173:ASP:HB3	1:AE:179:GLU:HB2	2.00	0.43
1:AE:214:VAL:HB	1:AE:218:ARG:NH1	2.34	0.43
1:AG:328:GLU:HG3	1:AG:332:ARG:NH2	2.33	0.43
1:AH:190:GLU:O	1:AH:193:LYS:HG2	2.19	0.43
1:AH:328:GLU:HG3	1:AH:332:ARG:NH2	2.33	0.43
1:AI:223:SER:HA	1:AJ:212:ARG:HH22	1.84	0.43
1:AL:389:TRP:O	1:AL:393:LEU:HG	2.18	0.43
1:AN:82:TYR:CE1	1:AN:129:SER:HB3	2.54	0.43
1:AP:223:SER:HA	1:AQ:212:ARG:HH22	1.84	0.43
1:AQ:82:TYR:CE1	1:AQ:129:SER:HB3	2.54	0.43
1:AQ:190:GLU:O	1:AQ:193:LYS:HG2	2.19	0.43
1:AR:191:LYS:HD3	1:AR:192:LEU:HD22	2.00	0.43
1:AR:347:ARG:HA	1:AR:350:LYS:HZ3	1.84	0.43
1:AS:190:GLU:O	1:AS:193:LYS:HG2	2.19	0.43
1:AS:235:GLY:HA2	1:AS:238:GLU:CD	2.43	0.43
1:B:190:GLU:O	1:B:193:LYS:HG2	2.19	0.43
1:F:86:PHE:HB2	1:F:281:TYR:CZ	2.54	0.43
1:F:190:GLU:O	1:F:193:LYS:HG2	2.19	0.43
1:F:292:ARG:HD3	1:F:352:MET:SD	2.58	0.43
1:G:80:GLU:HA	1:G:83:LYS:NZ	2.33	0.43
1:G:235:GLY:HA2	1:G:238:GLU:CD	2.43	0.43
1:H:80:GLU:HG3	1:H:81:LYS:HG3	2.01	0.43
1:H:89:PRO:HD3	1:H:281:TYR:CD1	2.54	0.43
1:K:191:LYS:HD3	1:K:192:LEU:HD22	2.00	0.43
1:K:202:HIS:HE1	1:L:237:CYS:HB3	1.84	0.43
1:L:82:TYR:CE1	1:L:129:SER:HB3	2.54	0.43
1:L:89:PRO:HD3	1:L:281:TYR:CD1	2.54	0.43
1:O:310:GLU:HB3	1:O:331:TYR:CE1	2.53	0.43
1:Q:89:PRO:HD3	1:Q:281:TYR:CD1	2.54	0.43
1:R:80:GLU:HG3	1:R:81:LYS:HG3	2.01	0.43
1:S:393:LEU:HD23	1:S:396:LEU:HD12	2.00	0.43
1:T:235:GLY:HA2	1:T:238:GLU:CD	2.43	0.43
1:T:328:GLU:HG3	1:T:332:ARG:NH2	2.33	0.43
1:V:389:TRP:O	1:V:393:LEU:HG	2.18	0.43
1:V:393:LEU:HD23	1:V:396:LEU:HD12	2.00	0.43
1:W:173:ASP:HB3	1:W:179:GLU:HB2	2.01	0.43
1:X:389:TRP:O	1:X:393:LEU:HG	2.18	0.43
1:X:395:LYS:HB3	1:X:395:LYS:HE2	1.71	0.43
1:Y:86:PHE:HB2	1:Y:281:TYR:CZ	2.54	0.43
1:a:328:GLU:HG3	1:a:332:ARG:NH2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:80:GLU:HG3	1:b:81:LYS:HG3	2.01	0.43
1:c:80:GLU:HG3	1:c:81:LYS:HG3	2.01	0.43
1:c:190:GLU:O	1:c:193:LYS:HG2	2.19	0.43
1:c:310:GLU:HB3	1:c:331:TYR:CE1	2.53	0.43
1:c:393:LEU:HD23	1:c:396:LEU:HD12	2.00	0.43
1:d:191:LYS:HD3	1:d:192:LEU:HD22	2.00	0.43
1:d:356:ILE:HG13	1:d:360:GLN:NE2	2.32	0.43
1:d:393:LEU:HD23	1:d:396:LEU:HD12	2.00	0.43
1:e:292:ARG:HD3	1:e:352:MET:SD	2.58	0.43
1:f:89:PRO:HD3	1:f:281:TYR:CD1	2.54	0.43
1:h:80:GLU:HG3	1:h:81:LYS:HG3	2.01	0.43
1:h:292:ARG:HD3	1:h:352:MET:SD	2.58	0.43
1:i:173:ASP:HB3	1:i:179:GLU:HB2	2.01	0.43
1:i:235:GLY:HA2	1:i:238:GLU:CD	2.43	0.43
1:j:82:TYR:CE1	1:j:129:SER:HB3	2.54	0.43
1:j:190:GLU:O	1:j:193:LYS:HG2	2.19	0.43
1:m:86:PHE:HB2	1:m:281:TYR:CZ	2.54	0.43
1:m:89:PRO:HD3	1:m:281:TYR:CD1	2.54	0.43
1:m:235:GLY:HA2	1:m:238:GLU:CD	2.43	0.43
1:o:80:GLU:HA	1:o:83:LYS:NZ	2.33	0.43
1:p:190:GLU:O	1:p:193:LYS:HG2	2.19	0.43
1:q:235:GLY:HA2	1:q:238:GLU:CD	2.43	0.43
1:r:89:PRO:HD3	1:r:281:TYR:CD1	2.54	0.43
1:s:235:GLY:HA2	1:s:238:GLU:CD	2.43	0.43
1:t:214:VAL:HB	1:t:218:ARG:NH1	2.34	0.43
1:u:235:GLY:HA2	1:u:238:GLU:CD	2.43	0.43
1:u:389:TRP:O	1:u:393:LEU:HG	2.18	0.43
1:v:86:PHE:HB2	1:v:281:TYR:CZ	2.54	0.43
1:v:214:VAL:HB	1:v:218:ARG:NH1	2.34	0.43
1:w:86:PHE:HB2	1:w:281:TYR:CZ	2.54	0.43
1:y:82:TYR:CE1	1:y:129:SER:HB3	2.54	0.43
1:z:310:GLU:HB3	1:z:331:TYR:CE1	2.53	0.43
1:0:86:PHE:HB2	1:0:281:TYR:CZ	2.54	0.43
1:0:190:GLU:O	1:0:193:LYS:HG2	2.19	0.43
1:0:310:GLU:HB3	1:0:331:TYR:CE1	2.53	0.43
1:1:173:ASP:HB3	1:1:179:GLU:HB2	2.01	0.43
1:2:80:GLU:HA	1:2:83:LYS:NZ	2.33	0.43
1:3:190:GLU:O	1:3:193:LYS:HG2	2.19	0.43
1:6:214:VAL:HB	1:6:218:ARG:NH1	2.34	0.43
1:6:393:LEU:HD23	1:6:396:LEU:HD12	2.00	0.43
1:7:214:VAL:HB	1:7:218:ARG:NH1	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:190:GLU:O	1:8:193:LYS:HG2	2.19	0.43
1:8:214:VAL:HB	1:8:218:ARG:NH1	2.34	0.43
1:9:191:LYS:HD3	1:9:192:LEU:HD22	2.00	0.43
1:9:328:GLU:HG3	1:9:332:ARG:NH2	2.33	0.43
1:A:86:PHE:HB2	1:A:281:TYR:CZ	2.54	0.43
1:AA:328:GLU:HG3	1:AA:332:ARG:NH2	2.33	0.43
1:AD:389:TRP:O	1:AD:393:LEU:HG	2.18	0.43
1:AF:82:TYR:CE1	1:AF:129:SER:HB3	2.54	0.43
1:AF:86:PHE:HB2	1:AF:281:TYR:CZ	2.54	0.43
1:AG:86:PHE:HB2	1:AG:281:TYR:CZ	2.54	0.43
1:AG:223:SER:HA	1:AH:212:ARG:HH22	1.84	0.43
1:AG:292:ARG:HD3	1:AG:352:MET:SD	2.58	0.43
1:AH:80:GLU:HG3	1:AH:81:LYS:HG3	2.01	0.43
1:AJ:173:ASP:HB3	1:AJ:179:GLU:HB2	2.01	0.43
1:AK:223:SER:HA	1:AL:212:ARG:HH22	1.84	0.43
1:AN:89:PRO:HD3	1:AN:281:TYR:CD1	2.54	0.43
1:AN:223:SER:HA	1:AO:212:ARG:HH22	1.84	0.43
1:AN:393:LEU:HD23	1:AN:396:LEU:HD12	2.00	0.43
1:AR:190:GLU:O	1:AR:193:LYS:HG2	2.19	0.43
1:AR:214:VAL:HB	1:AR:218:ARG:NH1	2.34	0.43
1:B:89:PRO:HD3	1:B:281:TYR:CD1	2.54	0.43
1:C:98:LYS:HE3	1:e:101:PHE:HD2	1.83	0.43
1:D:292:ARG:HD3	1:D:352:MET:SD	2.58	0.43
1:F:89:PRO:HD3	1:F:281:TYR:CD1	2.54	0.43
1:G:393:LEU:HD23	1:G:396:LEU:HD12	2.00	0.43
1:H:328:GLU:HG3	1:H:332:ARG:NH2	2.33	0.43
1:I:202:HIS:HE1	1:J:237:CYS:HB3	1.83	0.43
1:O:82:TYR:CE1	1:O:129:SER:HB3	2.54	0.43
1:P:80:GLU:HG3	1:P:81:LYS:HG3	2.01	0.43
1:Q:393:LEU:HD23	1:Q:396:LEU:HD12	2.00	0.43
1:T:173:ASP:HB3	1:T:179:GLU:HB2	2.01	0.43
1:T:292:ARG:HD3	1:T:352:MET:SD	2.58	0.43
1:V:80:GLU:HG3	1:V:81:LYS:HG3	2.01	0.43
1:V:86:PHE:HB2	1:V:281:TYR:CZ	2.54	0.43
1:W:89:PRO:HD3	1:W:281:TYR:CD1	2.54	0.43
1:W:214:VAL:HB	1:W:218:ARG:NH1	2.34	0.43
1:Y:214:VAL:HB	1:Y:218:ARG:NH1	2.34	0.43
1:Z:86:PHE:HB2	1:Z:281:TYR:CZ	2.54	0.43
1:Z:214:VAL:HB	1:Z:218:ARG:NH1	2.34	0.43
1:a:214:VAL:HB	1:a:218:ARG:NH1	2.34	0.43
1:a:310:GLU:HB3	1:a:331:TYR:CE1	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:173:ASP:HB3	1:c:179:GLU:HB2	2.01	0.43
1:c:191:LYS:HD3	1:c:192:LEU:HD22	2.00	0.43
1:e:86:PHE:HB2	1:e:281:TYR:CZ	2.54	0.43
1:e:191:LYS:HD3	1:e:192:LEU:HD22	2.00	0.43
1:e:347:ARG:HA	1:e:350:LYS:HZ2	1.82	0.43
1:g:173:ASP:HB3	1:g:179:GLU:HB2	2.01	0.43
1:h:82:TYR:CE1	1:h:129:SER:HB3	2.54	0.43
1:h:328:GLU:HG3	1:h:332:ARG:NH2	2.33	0.43
1:k:82:TYR:CE1	1:k:129:SER:HB3	2.54	0.43
1:k:191:LYS:HD3	1:k:192:LEU:HD22	2.00	0.43
1:o:86:PHE:HB2	1:o:281:TYR:CZ	2.54	0.43
1:o:89:PRO:HD3	1:o:281:TYR:CD1	2.54	0.43
1:p:80:GLU:HG3	1:p:81:LYS:HG3	2.01	0.43
1:r:202:HIS:HE1	1:s:237:CYS:HB3	1.84	0.43
1:r:292:ARG:HD3	1:r:352:MET:SD	2.58	0.43
1:u:82:TYR:CE1	1:u:129:SER:HB3	2.54	0.43
1:u:214:VAL:HB	1:u:218:ARG:NH1	2.34	0.43
1:w:48:VAL:O	1:w:63:ILE:HA	2.18	0.43
1:w:89:PRO:HD3	1:w:281:TYR:CD1	2.54	0.43
1:x:214:VAL:HB	1:x:218:ARG:NH1	2.34	0.43
1:y:328:GLU:HG3	1:y:332:ARG:NH2	2.33	0.43
1:z:214:VAL:HB	1:z:218:ARG:NH1	2.34	0.43
1:0:86:PHE:HB2	1:0:281:TYR:OH	2.19	0.42
1:1:56:GLU:HG3	1:1:133:ARG:HG2	2.02	0.42
1:1:195:TYR:O	1:1:198:GLU:HG2	2.19	0.42
1:2:173:ASP:HB3	1:2:179:GLU:HB2	2.01	0.42
1:2:195:TYR:O	1:2:198:GLU:HG2	2.19	0.42
1:4:191:LYS:HD3	1:4:192:LEU:HD22	2.00	0.42
1:5:86:PHE:HB2	1:5:281:TYR:OH	2.19	0.42
1:5:218:ARG:NH1	1:5:264:ALA:HB1	2.34	0.42
1:8:118:ASN:O	1:8:122:LEU:HG	2.20	0.42
1:A:190:GLU:O	1:A:193:LYS:HG2	2.19	0.42
1:AE:195:TYR:O	1:AE:198:GLU:HG2	2.19	0.42
1:AF:214:VAL:HB	1:AF:218:ARG:NH1	2.34	0.42
1:AG:214:VAL:HB	1:AG:218:ARG:NH1	2.34	0.42
1:AH:235:GLY:HA2	1:AH:238:GLU:CD	2.43	0.42
1:AH:389:TRP:O	1:AH:393:LEU:HG	2.18	0.42
1:AI:89:PRO:HD3	1:AI:281:TYR:CD1	2.54	0.42
1:AI:173:ASP:HB3	1:AI:179:GLU:HB2	2.01	0.42
1:AJ:195:TYR:O	1:AJ:198:GLU:HG2	2.19	0.42
1:AM:82:TYR:CE1	1:AM:129:SER:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:328:GLU:HG3	1:AO:332:ARG:NH2	2.33	0.42
1:AS:191:LYS:HD3	1:AS:192:LEU:HD22	2.00	0.42
1:AS:214:VAL:HB	1:AS:218:ARG:NH1	2.34	0.42
1:B:80:GLU:HG3	1:B:81:LYS:HG3	2.01	0.42
1:B:82:TYR:CE1	1:B:129:SER:HB3	2.54	0.42
1:B:86:PHE:HB2	1:B:281:TYR:CZ	2.54	0.42
1:B:389:TRP:O	1:B:393:LEU:HG	2.18	0.42
1:D:218:ARG:NH1	1:D:264:ALA:HB1	2.34	0.42
1:E:223:SER:HA	1:F:212:ARG:HH22	1.84	0.42
1:F:393:LEU:HD23	1:F:396:LEU:HD12	2.00	0.42
1:G:195:TYR:O	1:G:198:GLU:HG2	2.19	0.42
1:J:86:PHE:HB2	1:J:281:TYR:OH	2.19	0.42
1:J:89:PRO:HD3	1:J:281:TYR:CD1	2.54	0.42
1:K:190:GLU:O	1:K:193:LYS:HG2	2.19	0.42
1:K:218:ARG:NH1	1:K:264:ALA:HB1	2.34	0.42
1:M:393:LEU:HD23	1:M:396:LEU:HD12	2.00	0.42
1:N:56:GLU:HG3	1:N:133:ARG:HG2	2.01	0.42
1:P:56:GLU:HG3	1:P:133:ARG:HG2	2.01	0.42
1:P:195:TYR:O	1:P:198:GLU:HG2	2.19	0.42
1:P:214:VAL:HB	1:P:218:ARG:NH1	2.34	0.42
1:Q:86:PHE:HB2	1:Q:281:TYR:CZ	2.54	0.42
1:Q:191:LYS:HD3	1:Q:192:LEU:HD22	2.00	0.42
1:R:190:GLU:O	1:R:193:LYS:HG2	2.19	0.42
1:S:214:VAL:HB	1:S:218:ARG:NH1	2.34	0.42
1:T:195:TYR:O	1:T:198:GLU:HG2	2.19	0.42
1:U:86:PHE:HB2	1:U:281:TYR:CZ	2.54	0.42
1:U:328:GLU:HG3	1:U:332:ARG:NH2	2.33	0.42
1:V:195:TYR:O	1:V:198:GLU:HG2	2.19	0.42
1:W:292:ARG:HD3	1:W:352:MET:SD	2.58	0.42
1:Y:89:PRO:HD3	1:Y:281:TYR:CD1	2.54	0.42
1:a:173:ASP:HB3	1:a:179:GLU:HB2	2.01	0.42
1:b:191:LYS:HD3	1:b:192:LEU:HD22	2.00	0.42
1:b:372:HIS:HA	1:c:396:LEU:HD13	2.00	0.42
1:c:86:PHE:HB2	1:c:281:TYR:CZ	2.54	0.42
1:e:173:ASP:HB3	1:e:179:GLU:HB2	2.01	0.42
1:e:235:GLY:HA2	1:e:238:GLU:CD	2.43	0.42
1:f:195:TYR:O	1:f:198:GLU:HG2	2.19	0.42
1:g:167:VAL:HG13	1:g:170:LYS:HZ2	1.84	0.42
1:g:214:VAL:HB	1:g:218:ARG:NH1	2.34	0.42
1:h:195:TYR:O	1:h:198:GLU:HG2	2.19	0.42
1:j:86:PHE:HB2	1:j:281:TYR:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:89:PRO:HD3	1:j:281:TYR:CD1	2.54	0.42
1:j:292:ARG:HD3	1:j:352:MET:SD	2.58	0.42
1:k:173:ASP:HB3	1:k:179:GLU:HB2	2.00	0.42
1:k:310:GLU:HB3	1:k:331:TYR:CE1	2.53	0.42
1:l:82:TYR:CE1	1:l:129:SER:HB3	2.54	0.42
1:l:86:PHE:HB2	1:l:281:TYR:CZ	2.54	0.42
1:l:173:ASP:HB3	1:l:179:GLU:HB2	2.01	0.42
1:m:173:ASP:HB3	1:m:179:GLU:HB2	2.01	0.42
1:m:393:LEU:HD23	1:m:396:LEU:HD12	2.00	0.42
1:n:80:GLU:HA	1:n:83:LYS:NZ	2.33	0.42
1:n:195:TYR:O	1:n:198:GLU:HG2	2.19	0.42
1:n:223:SER:HB2	1:o:213:LEU:CD2	2.48	0.42
1:o:80:GLU:HG3	1:o:81:LYS:HG3	2.01	0.42
1:p:173:ASP:HB3	1:p:179:GLU:HB2	2.01	0.42
1:w:56:GLU:HG3	1:w:133:ARG:HG2	2.01	0.42
1:w:235:GLY:HA2	1:w:238:GLU:CD	2.43	0.42
1:x:86:PHE:HB2	1:x:281:TYR:CZ	2.54	0.42
1:y:86:PHE:HB2	1:y:281:TYR:CZ	2.54	0.42
1:y:195:TYR:O	1:y:198:GLU:HG2	2.19	0.42
1:z:86:PHE:HB2	1:z:281:TYR:CZ	2.54	0.42
1:z:292:ARG:HD3	1:z:352:MET:SD	2.58	0.42
1:0:173:ASP:HB3	1:0:179:GLU:HB2	2.01	0.42
1:0:218:ARG:NH1	1:0:264:ALA:HB1	2.34	0.42
1:1:218:ARG:NH1	1:1:264:ALA:HB1	2.35	0.42
1:2:86:PHE:HB2	1:2:281:TYR:CZ	2.54	0.42
1:3:91:PRO:HG2	1:3:109:ARG:HA	2.02	0.42
1:3:235:GLY:HA2	1:3:238:GLU:CD	2.43	0.42
1:3:292:ARG:HD3	1:3:352:MET:SD	2.58	0.42
1:3:393:LEU:HD23	1:3:396:LEU:HD12	2.00	0.42
1:6:86:PHE:HB2	1:6:281:TYR:CZ	2.54	0.42
1:AA:82:TYR:CE1	1:AA:129:SER:HB3	2.54	0.42
1:AA:214:VAL:HB	1:AA:218:ARG:NH1	2.34	0.42
1:AB:82:TYR:CE1	1:AB:129:SER:HB3	2.54	0.42
1:AC:56:GLU:HG3	1:AC:133:ARG:HG2	2.01	0.42
1:AC:173:ASP:HB3	1:AC:179:GLU:HB2	2.01	0.42
1:AD:235:GLY:HA2	1:AD:238:GLU:CD	2.43	0.42
1:AE:56:GLU:HG3	1:AE:133:ARG:HG2	2.02	0.42
1:AF:48:VAL:O	1:AF:63:ILE:HA	2.18	0.42
1:AF:86:PHE:HB2	1:AF:281:TYR:OH	2.19	0.42
1:AI:86:PHE:HB2	1:AI:281:TYR:CZ	2.54	0.42
1:AJ:56:GLU:HG3	1:AJ:133:ARG:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AJ:292:ARG:HD3	1:AJ:352:MET:SD	2.58	0.42
1:AK:91:PRO:HG2	1:AK:109:ARG:HA	2.02	0.42
1:AK:292:ARG:HD3	1:AK:352:MET:SD	2.58	0.42
1:AL:82:TYR:CE1	1:AL:129:SER:HB3	2.54	0.42
1:AL:86:PHE:HB2	1:AL:281:TYR:CZ	2.54	0.42
1:AM:86:PHE:HB2	1:AM:281:TYR:CZ	2.54	0.42
1:AO:167:VAL:HG13	1:AO:170:LYS:HZ2	1.84	0.42
1:AQ:191:LYS:HD3	1:AQ:192:LEU:HD22	2.00	0.42
1:AQ:393:LEU:HD23	1:AQ:396:LEU:HD12	2.00	0.42
1:AR:80:GLU:HG3	1:AR:81:LYS:HG3	2.01	0.42
1:AR:218:ARG:NH1	1:AR:264:ALA:HB1	2.35	0.42
1:AS:86:PHE:HB2	1:AS:281:TYR:CZ	2.54	0.42
1:D:328:GLU:HG3	1:D:332:ARG:NH2	2.33	0.42
1:E:218:ARG:NH1	1:E:264:ALA:HB1	2.35	0.42
1:G:389:TRP:O	1:G:393:LEU:HG	2.18	0.42
1:G:395:LYS:HE2	1:G:395:LYS:HB3	1.71	0.42
1:H:218:ARG:NH1	1:H:264:ALA:HB1	2.35	0.42
1:H:393:LEU:HD23	1:H:396:LEU:HD12	2.00	0.42
1:I:389:TRP:O	1:I:393:LEU:HG	2.18	0.42
1:K:86:PHE:HB2	1:K:281:TYR:CZ	2.54	0.42
1:L:292:ARG:HD3	1:L:352:MET:SD	2.58	0.42
1:M:80:GLU:HG3	1:M:81:LYS:HG3	2.01	0.42
1:M:89:PRO:HD3	1:M:281:TYR:CD1	2.54	0.42
1:N:195:TYR:O	1:N:198:GLU:HG2	2.19	0.42
1:N:292:ARG:HD3	1:N:352:MET:SD	2.58	0.42
1:O:89:PRO:HD3	1:O:281:TYR:CD1	2.54	0.42
1:Q:80:GLU:HG3	1:Q:81:LYS:HG3	2.01	0.42
1:Q:190:GLU:O	1:Q:193:LYS:HG2	2.19	0.42
1:R:56:GLU:HG3	1:R:133:ARG:HG2	2.01	0.42
1:R:191:LYS:HD3	1:R:192:LEU:HD22	2.00	0.42
1:S:82:TYR:CE1	1:S:129:SER:HB3	2.54	0.42
1:S:218:ARG:NH1	1:S:264:ALA:HB1	2.35	0.42
1:T:218:ARG:NH1	1:T:264:ALA:HB1	2.34	0.42
1:U:82:TYR:CE1	1:U:129:SER:HB3	2.54	0.42
1:V:190:GLU:O	1:V:193:LYS:HG2	2.19	0.42
1:W:218:ARG:NH1	1:W:264:ALA:HB1	2.35	0.42
1:X:191:LYS:HD3	1:X:192:LEU:HD22	2.00	0.42
1:X:227:PHE:HB2	1:Y:213:LEU:HD11	2.01	0.42
1:Y:393:LEU:HD23	1:Y:396:LEU:HD12	2.00	0.42
1:Z:195:TYR:O	1:Z:198:GLU:HG2	2.19	0.42
1:Z:218:ARG:NH1	1:Z:264:ALA:HB1	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:223:SER:HA	1:a:212:ARG:HH22	1.84	0.42
1:b:89:PRO:HD3	1:b:281:TYR:CD1	2.54	0.42
1:c:89:PRO:HD3	1:c:281:TYR:CD1	2.54	0.42
1:d:86:PHE:HB2	1:d:281:TYR:OH	2.19	0.42
1:f:214:VAL:HB	1:f:218:ARG:NH1	2.34	0.42
1:h:56:GLU:HG3	1:h:133:ARG:HG2	2.02	0.42
1:h:80:GLU:HA	1:h:83:LYS:NZ	2.33	0.42
1:i:82:TYR:CE1	1:i:129:SER:HB3	2.54	0.42
1:i:89:PRO:HD3	1:i:281:TYR:CD1	2.54	0.42
1:k:195:TYR:O	1:k:198:GLU:HG2	2.19	0.42
1:l:89:PRO:HD3	1:l:281:TYR:CD1	2.54	0.42
1:m:347:ARG:HA	1:m:350:LYS:HZ2	1.83	0.42
1:n:56:GLU:HG3	1:n:133:ARG:HG2	2.02	0.42
1:n:82:TYR:CE1	1:n:129:SER:HB3	2.54	0.42
1:n:173:ASP:HB3	1:n:179:GLU:HB2	2.01	0.42
1:n:190:GLU:O	1:n:193:LYS:HG2	2.19	0.42
1:n:292:ARG:HD3	1:n:352:MET:SD	2.58	0.42
1:o:235:GLY:HA2	1:o:238:GLU:CD	2.43	0.42
1:p:82:TYR:CE1	1:p:129:SER:HB3	2.54	0.42
1:r:395:LYS:HE2	1:r:395:LYS:HB3	1.71	0.42
1:t:56:GLU:HG3	1:t:133:ARG:HG2	2.02	0.42
1:t:86:PHE:HB2	1:t:281:TYR:CZ	2.54	0.42
1:u:56:GLU:HG3	1:u:133:ARG:HG2	2.01	0.42
1:w:86:PHE:HB2	1:w:281:TYR:OH	2.19	0.42
1:x:86:PHE:HB2	1:x:281:TYR:OH	2.19	0.42
1:y:173:ASP:HB3	1:y:179:GLU:HB2	2.01	0.42
1:y:190:GLU:O	1:y:193:LYS:HG2	2.19	0.42
1:z:89:PRO:HD3	1:z:281:TYR:CD1	2.54	0.42
1:0:82:TYR:CE1	1:0:129:SER:HB3	2.54	0.42
1:0:328:GLU:HG3	1:0:332:ARG:NH2	2.33	0.42
1:1:214:VAL:HB	1:1:218:ARG:NH1	2.34	0.42
1:2:86:PHE:HB2	1:2:281:TYR:OH	2.19	0.42
1:2:258:ILE:HD11	1:5:47:ARG:HH11	1.84	0.42
1:5:91:PRO:HG2	1:5:109:ARG:HA	2.02	0.42
1:6:118:ASN:O	1:6:122:LEU:HG	2.20	0.42
1:6:218:ARG:NH1	1:6:264:ALA:HB1	2.35	0.42
1:7:195:TYR:O	1:7:198:GLU:HG2	2.19	0.42
1:8:56:GLU:HG3	1:8:133:ARG:HG2	2.02	0.42
1:8:309:LYS:HE3	1:8:309:LYS:HB3	1.82	0.42
1:9:190:GLU:O	1:9:193:LYS:HG2	2.19	0.42
1:AA:86:PHE:HB2	1:AA:281:TYR:OH	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:218:ARG:NH1	1:AA:264:ALA:HB1	2.35	0.42
1:AB:389:TRP:O	1:AB:393:LEU:HG	2.18	0.42
1:AD:80:GLU:HG3	1:AD:81:LYS:HG3	2.01	0.42
1:AF:91:PRO:HG2	1:AF:109:ARG:HA	2.02	0.42
1:AF:235:GLY:HA2	1:AF:238:GLU:CD	2.43	0.42
1:AG:218:ARG:NH1	1:AG:264:ALA:HB1	2.35	0.42
1:AG:395:LYS:HB3	1:AG:395:LYS:HE2	1.71	0.42
1:AH:118:ASN:O	1:AH:122:LEU:HG	2.20	0.42
1:AK:86:PHE:HB2	1:AK:281:TYR:OH	2.19	0.42
1:AL:86:PHE:HB2	1:AL:281:TYR:OH	2.19	0.42
1:AL:173:ASP:HB3	1:AL:179:GLU:HB2	2.01	0.42
1:AL:190:GLU:O	1:AL:193:LYS:HG2	2.19	0.42
1:AL:195:TYR:O	1:AL:198:GLU:HG2	2.19	0.42
1:AM:89:PRO:HD3	1:AM:281:TYR:CD1	2.54	0.42
1:AM:195:TYR:O	1:AM:198:GLU:HG2	2.19	0.42
1:AN:191:LYS:HD3	1:AN:192:LEU:HD22	2.00	0.42
1:AP:82:TYR:CE1	1:AP:129:SER:HB3	2.54	0.42
1:AP:190:GLU:O	1:AP:193:LYS:HG2	2.19	0.42
1:AQ:195:TYR:O	1:AQ:198:GLU:HG2	2.19	0.42
1:AS:56:GLU:HG3	1:AS:133:ARG:HG2	2.02	0.42
1:AS:218:ARG:NH1	1:AS:264:ALA:HB1	2.34	0.42
1:B:178:LYS:HD3	1:B:178:LYS:HA	1.76	0.42
1:B:393:LEU:HD23	1:B:396:LEU:HD12	2.00	0.42
1:E:86:PHE:HB2	1:E:281:TYR:CZ	2.54	0.42
1:E:195:TYR:O	1:E:198:GLU:HG2	2.19	0.42
1:E:214:VAL:HB	1:E:218:ARG:NH1	2.34	0.42
1:F:56:GLU:HG3	1:F:133:ARG:HG2	2.02	0.42
1:F:80:GLU:HG3	1:F:81:LYS:HG3	2.01	0.42
1:F:191:LYS:HD3	1:F:192:LEU:HD22	2.00	0.42
1:G:223:SER:HB2	1:H:213:LEU:CD2	2.48	0.42
1:H:214:VAL:HB	1:H:218:ARG:NH1	2.34	0.42
1:K:389:TRP:O	1:K:393:LEU:HG	2.18	0.42
1:M:218:ARG:NH1	1:M:264:ALA:HB1	2.35	0.42
1:O:214:VAL:HB	1:O:218:ARG:NH1	2.34	0.42
1:Q:214:VAL:HB	1:Q:218:ARG:NH1	2.34	0.42
1:R:89:PRO:HD3	1:R:281:TYR:CD1	2.54	0.42
1:S:173:ASP:HB3	1:S:179:GLU:HB2	2.00	0.42
1:T:56:GLU:HG3	1:T:133:ARG:HG2	2.02	0.42
1:T:80:GLU:HG3	1:T:81:LYS:HG3	2.01	0.42
1:U:195:TYR:O	1:U:198:GLU:HG2	2.19	0.42
1:V:82:TYR:CE1	1:V:129:SER:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:56:GLU:HG3	1:X:133:ARG:HG2	2.01	0.42
1:Y:195:TYR:O	1:Y:198:GLU:HG2	2.19	0.42
1:Z:372:HIS:HA	1:a:396:LEU:HD13	2.02	0.42
1:a:91:PRO:HG2	1:a:109:ARG:HA	2.02	0.42
1:a:118:ASN:O	1:a:122:LEU:HG	2.20	0.42
1:b:82:TYR:CE1	1:b:129:SER:HB3	2.54	0.42
1:b:195:TYR:O	1:b:198:GLU:HG2	2.19	0.42
1:b:395:LYS:HE2	1:b:395:LYS:HB3	1.71	0.42
1:c:214:VAL:HB	1:c:218:ARG:NH1	2.34	0.42
1:d:190:GLU:O	1:d:193:LYS:HG2	2.19	0.42
1:e:218:ARG:NH1	1:e:264:ALA:HB1	2.35	0.42
1:i:86:PHE:HB2	1:i:281:TYR:OH	2.19	0.42
1:j:56:GLU:HG3	1:j:133:ARG:HG2	2.02	0.42
1:j:86:PHE:HB2	1:j:281:TYR:OH	2.19	0.42
1:j:118:ASN:O	1:j:122:LEU:HG	2.20	0.42
1:k:86:PHE:HB2	1:k:281:TYR:CZ	2.54	0.42
1:l:328:GLU:HG3	1:l:332:ARG:NH2	2.33	0.42
1:n:328:GLU:HG3	1:n:332:ARG:NH2	2.33	0.42
1:o:86:PHE:HB2	1:o:281:TYR:OH	2.19	0.42
1:o:173:ASP:HB3	1:o:179:GLU:HB2	2.01	0.42
1:p:178:LYS:HD3	1:p:178:LYS:HA	1.76	0.42
1:q:86:PHE:HB2	1:q:281:TYR:CZ	2.54	0.42
1:r:86:PHE:HB2	1:r:281:TYR:OH	2.19	0.42
1:r:118:ASN:O	1:r:122:LEU:HG	2.20	0.42
1:r:393:LEU:HD23	1:r:396:LEU:HD12	2.00	0.42
1:t:118:ASN:O	1:t:122:LEU:HG	2.20	0.42
1:u:86:PHE:HB2	1:u:281:TYR:CZ	2.54	0.42
1:u:218:ARG:NH1	1:u:264:ALA:HB1	2.34	0.42
1:u:310:GLU:HB3	1:u:331:TYR:CE1	2.53	0.42
1:u:346:GLU:C	1:u:350:LYS:HZ2	2.26	0.42
1:v:195:TYR:O	1:v:198:GLU:HG2	2.19	0.42
1:v:372:HIS:CB	1:w:400:TYR:HE2	2.31	0.42
1:x:118:ASN:O	1:x:122:LEU:HG	2.20	0.42
1:x:223:SER:HA	1:y:212:ARG:HH22	1.84	0.42
1:x:393:LEU:HD23	1:x:396:LEU:HD12	2.00	0.42
1:y:56:GLU:HG3	1:y:133:ARG:HG2	2.01	0.42
1:z:82:TYR:CE1	1:z:129:SER:HB3	2.54	0.42
1:z:91:PRO:HG2	1:z:109:ARG:HA	2.02	0.42
1:0:89:PRO:HD3	1:0:281:TYR:CD1	2.54	0.42
1:0:376:LYS:HA	1:0:376:LYS:HD2	1.94	0.42
1:2:56:GLU:HG3	1:2:133:ARG:HG2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:86:PHE:HB2	1:3:281:TYR:OH	2.19	0.42
1:4:190:GLU:O	1:4:193:LYS:HG2	2.19	0.42
1:5:347:ARG:HA	1:5:350:LYS:HZ2	1.84	0.42
1:6:190:GLU:O	1:6:193:LYS:HG2	2.19	0.42
1:6:309:LYS:HE3	1:6:309:LYS:HB3	1.82	0.42
1:8:218:ARG:NH1	1:8:264:ALA:HB1	2.35	0.42
1:9:195:TYR:O	1:9:198:GLU:HG2	2.19	0.42
1:AA:86:PHE:HB2	1:AA:281:TYR:CZ	2.54	0.42
1:AB:86:PHE:HB2	1:AB:281:TYR:OH	2.19	0.42
1:AB:173:ASP:HB3	1:AB:179:GLU:HB2	2.01	0.42
1:AC:82:TYR:CE1	1:AC:129:SER:HB3	2.54	0.42
1:AC:86:PHE:HB2	1:AC:281:TYR:CZ	2.54	0.42
1:AC:118:ASN:O	1:AC:122:LEU:HG	2.20	0.42
1:AC:214:VAL:HB	1:AC:218:ARG:NH1	2.34	0.42
1:AF:56:GLU:HG3	1:AF:133:ARG:HG2	2.01	0.42
1:AF:310:GLU:HB3	1:AF:331:TYR:CE1	2.53	0.42
1:AH:191:LYS:HD3	1:AH:192:LEU:HD22	2.00	0.42
1:AI:91:PRO:HG2	1:AI:109:ARG:HA	2.02	0.42
1:AI:218:ARG:NH1	1:AI:264:ALA:HB1	2.34	0.42
1:AJ:395:LYS:HE2	1:AJ:395:LYS:HB3	1.71	0.42
1:AK:89:PRO:HD3	1:AK:281:TYR:CD1	2.54	0.42
1:AK:218:ARG:NH1	1:AK:264:ALA:HB1	2.34	0.42
1:AN:86:PHE:HB2	1:AN:281:TYR:OH	2.19	0.42
1:AN:118:ASN:O	1:AN:122:LEU:HG	2.20	0.42
1:AO:82:TYR:CE1	1:AO:129:SER:HB3	2.54	0.42
1:AO:191:LYS:HD3	1:AO:192:LEU:HD22	2.00	0.42
1:AP:191:LYS:HD3	1:AP:192:LEU:HD22	2.00	0.42
1:AR:195:TYR:O	1:AR:198:GLU:HG2	2.19	0.42
1:AS:369:VAL:O	1:AS:373:GLN:HG2	2.20	0.42
1:B:191:LYS:HD3	1:B:192:LEU:HD22	2.00	0.42
1:C:190:GLU:O	1:C:193:LYS:HG2	2.19	0.42
1:D:178:LYS:HD3	1:D:178:LYS:HA	1.76	0.42
1:E:89:PRO:HD3	1:E:281:TYR:CD1	2.54	0.42
1:J:82:TYR:CE1	1:J:129:SER:HB3	2.54	0.42
1:K:214:VAL:HB	1:K:218:ARG:NH1	2.34	0.42
1:K:328:GLU:HG3	1:K:332:ARG:NH2	2.33	0.42
1:L:218:ARG:NH1	1:L:264:ALA:HB1	2.35	0.42
1:M:202:HIS:HB3	1:N:234:LEU:HA	2.02	0.42
1:O:91:PRO:HG2	1:O:109:ARG:HA	2.02	0.42
1:O:195:TYR:O	1:O:198:GLU:HG2	2.19	0.42
1:P:82:TYR:CE1	1:P:129:SER:HB3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:56:GLU:HG3	1:U:133:ARG:HG2	2.02	0.42
1:X:118:ASN:O	1:X:122:LEU:HG	2.20	0.42
1:X:195:TYR:O	1:X:198:GLU:HG2	2.19	0.42
1:X:393:LEU:HD23	1:X:396:LEU:HD12	2.00	0.42
1:Y:80:GLU:HG3	1:Y:81:LYS:HG3	2.01	0.42
1:Y:91:PRO:HG2	1:Y:109:ARG:HA	2.01	0.42
1:a:89:PRO:HD3	1:a:281:TYR:CD1	2.54	0.42
1:b:56:GLU:HG3	1:b:133:ARG:HG2	2.02	0.42
1:b:86:PHE:HB2	1:b:281:TYR:OH	2.19	0.42
1:b:118:ASN:O	1:b:122:LEU:HG	2.20	0.42
1:b:214:VAL:HB	1:b:218:ARG:NH1	2.34	0.42
1:c:309:LYS:HE3	1:c:309:LYS:HB3	1.82	0.42
1:d:89:PRO:HD3	1:d:281:TYR:CD1	2.54	0.42
1:f:86:PHE:HB2	1:f:281:TYR:CZ	2.54	0.42
1:f:218:ARG:NH1	1:f:264:ALA:HB1	2.35	0.42
1:f:328:GLU:HG3	1:f:332:ARG:NH2	2.33	0.42
1:g:91:PRO:HG2	1:g:109:ARG:HA	2.02	0.42
1:g:118:ASN:O	1:g:122:LEU:HG	2.20	0.42
1:g:393:LEU:HD23	1:g:396:LEU:HD12	2.00	0.42
1:h:118:ASN:O	1:h:122:LEU:HG	2.20	0.42
1:h:173:ASP:HB3	1:h:179:GLU:HB2	2.01	0.42
1:j:173:ASP:HB3	1:j:179:GLU:HB2	2.01	0.42
1:j:372:HIS:CB	1:k:400:TYR:HE2	2.31	0.42
1:k:89:PRO:HD3	1:k:281:TYR:CD1	2.54	0.42
1:k:190:GLU:O	1:k:193:LYS:HG2	2.19	0.42
1:k:214:VAL:HB	1:k:218:ARG:NH1	2.34	0.42
1:m:328:GLU:HG3	1:m:332:ARG:NH2	2.33	0.42
1:n:118:ASN:O	1:n:122:LEU:HG	2.20	0.42
1:n:214:VAL:HB	1:n:218:ARG:NH1	2.34	0.42
1:o:91:PRO:HG2	1:o:109:ARG:HA	2.02	0.42
1:p:328:GLU:HG3	1:p:332:ARG:NH2	2.33	0.42
1:q:328:GLU:HG3	1:q:332:ARG:NH2	2.33	0.42
1:r:191:LYS:HD3	1:r:192:LEU:HD22	2.00	0.42
1:s:82:TYR:CE1	1:s:129:SER:HB3	2.54	0.42
1:s:347:ARG:HA	1:s:350:LYS:HZ3	1.84	0.42
1:t:195:TYR:O	1:t:198:GLU:HG2	2.19	0.42
1:u:80:GLU:HG3	1:u:81:LYS:HG3	2.01	0.42
1:u:91:PRO:HG2	1:u:109:ARG:HA	2.02	0.42
1:v:191:LYS:HD3	1:v:192:LEU:HD22	2.00	0.42
1:v:218:ARG:NH1	1:v:264:ALA:HB1	2.35	0.42
1:w:191:LYS:HD3	1:w:192:LEU:HD22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:218:ARG:NH1	1:w:264:ALA:HB1	2.35	0.42
1:x:91:PRO:HG2	1:x:109:ARG:HA	2.02	0.42
1:x:195:TYR:O	1:x:198:GLU:HG2	2.19	0.42
1:x:218:ARG:NH1	1:x:264:ALA:HB1	2.35	0.42
1:y:218:ARG:NH1	1:y:264:ALA:HB1	2.35	0.42
1:z:80:GLU:HG3	1:z:81:LYS:HG3	2.01	0.42
1:z:393:LEU:HD23	1:z:396:LEU:HD12	2.00	0.42
1:0:369:VAL:O	1:0:373:GLN:HG2	2.20	0.42
1:2:118:ASN:O	1:2:122:LEU:HG	2.20	0.42
1:2:191:LYS:HD3	1:2:192:LEU:HD22	2.00	0.42
1:2:214:VAL:HB	1:2:218:ARG:NH1	2.34	0.42
1:3:56:GLU:HG3	1:3:133:ARG:HG2	2.02	0.42
1:3:86:PHE:HB2	1:3:281:TYR:CZ	2.54	0.42
1:3:218:ARG:NH1	1:3:264:ALA:HB1	2.34	0.42
1:4:82:TYR:CE1	1:4:129:SER:HB3	2.54	0.42
1:4:195:TYR:O	1:4:198:GLU:HG2	2.19	0.42
1:5:86:PHE:HB2	1:5:281:TYR:CZ	2.54	0.42
1:6:56:GLU:HG3	1:6:133:ARG:HG2	2.01	0.42
1:6:395:LYS:HE2	1:6:395:LYS:HB3	1.71	0.42
1:7:80:GLU:HG3	1:7:81:LYS:HG3	2.01	0.42
1:7:369:VAL:O	1:7:373:GLN:HG2	2.20	0.42
1:8:86:PHE:HB2	1:8:281:TYR:OH	2.19	0.42
1:8:91:PRO:HG2	1:8:109:ARG:HA	2.02	0.42
1:8:393:LEU:HD22	1:9:372:HIS:NE2	2.35	0.42
1:A:89:PRO:HD3	1:A:281:TYR:CD1	2.54	0.42
1:AA:91:PRO:HG2	1:AA:109:ARG:HA	2.02	0.42
1:AC:195:TYR:O	1:AC:198:GLU:HG2	2.19	0.42
1:AD:191:LYS:HD3	1:AD:192:LEU:HD22	2.00	0.42
1:AE:118:ASN:O	1:AE:122:LEU:HG	2.20	0.42
1:AG:56:GLU:HG3	1:AG:133:ARG:HG2	2.02	0.42
1:AJ:82:TYR:CE1	1:AJ:129:SER:HB3	2.54	0.42
1:AJ:89:PRO:HD3	1:AJ:281:TYR:CD1	2.54	0.42
1:AK:214:VAL:HB	1:AK:218:ARG:NH1	2.34	0.42
1:AL:56:GLU:HG3	1:AL:133:ARG:HG2	2.02	0.42
1:AM:118:ASN:O	1:AM:122:LEU:HG	2.20	0.42
1:AO:91:PRO:HG2	1:AO:109:ARG:HA	2.02	0.42
1:AO:214:VAL:HB	1:AO:218:ARG:NH1	2.34	0.42
1:AO:218:ARG:NH1	1:AO:264:ALA:HB1	2.35	0.42
1:AP:214:VAL:HB	1:AP:218:ARG:NH1	2.34	0.42
1:AP:393:LEU:HD23	1:AP:396:LEU:HD12	2.00	0.42
1:AR:372:HIS:HA	1:AS:396:LEU:HD13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:218:ARG:NH1	1:C:264:ALA:HB1	2.34	0.42
1:D:82:TYR:CE1	1:D:129:SER:HB3	2.54	0.42
1:G:89:PRO:HD3	1:G:281:TYR:CD1	2.54	0.42
1:H:195:TYR:O	1:H:198:GLU:HG2	2.19	0.42
1:I:218:ARG:NH1	1:I:264:ALA:HB1	2.35	0.42
1:K:89:PRO:HD3	1:K:281:TYR:CD1	2.54	0.42
1:K:173:ASP:HB3	1:K:179:GLU:HB2	2.01	0.42
1:L:80:GLU:HG3	1:L:81:LYS:HG3	2.01	0.42
1:L:173:ASP:HB3	1:L:179:GLU:HB2	2.01	0.42
1:M:91:PRO:HG2	1:M:109:ARG:HA	2.01	0.42
1:O:170:LYS:HG3	1:O:171:VAL:N	2.35	0.42
1:P:167:VAL:HG13	1:P:170:LYS:HZ2	1.85	0.42
1:P:173:ASP:HB3	1:P:179:GLU:HB2	2.01	0.42
1:Q:82:TYR:CE1	1:Q:129:SER:HB3	2.54	0.42
1:Q:218:ARG:NH1	1:Q:264:ALA:HB1	2.34	0.42
1:R:393:LEU:HD23	1:R:396:LEU:HD12	2.00	0.42
1:S:369:VAL:O	1:S:373:GLN:HG2	2.20	0.42
1:V:118:ASN:O	1:V:122:LEU:HG	2.20	0.42
1:V:173:ASP:HB3	1:V:179:GLU:HB2	2.00	0.42
1:W:80:GLU:HG3	1:W:81:LYS:HG3	2.01	0.42
1:W:82:TYR:CE1	1:W:129:SER:HB3	2.54	0.42
1:X:82:TYR:CE1	1:X:129:SER:HB3	2.54	0.42
1:X:190:GLU:O	1:X:193:LYS:HG2	2.19	0.42
1:Z:82:TYR:CE1	1:Z:129:SER:HB3	2.54	0.42
1:a:218:ARG:NH1	1:a:264:ALA:HB1	2.35	0.42
1:a:369:VAL:O	1:a:373:GLN:HG2	2.20	0.42
1:b:309:LYS:HB3	1:b:309:LYS:HE3	1.82	0.42
1:b:393:LEU:HD23	1:b:396:LEU:HD12	2.00	0.42
1:c:170:LYS:HG3	1:c:171:VAL:N	2.35	0.42
1:c:195:TYR:O	1:c:198:GLU:HG2	2.19	0.42
1:e:328:GLU:HG3	1:e:332:ARG:NH2	2.33	0.42
1:f:56:GLU:HG3	1:f:133:ARG:HG2	2.02	0.42
1:f:82:TYR:CE1	1:f:129:SER:HB3	2.54	0.42
1:f:98:LYS:HE3	1:i:101:PHE:HD2	1.85	0.42
1:f:118:ASN:O	1:f:122:LEU:HG	2.20	0.42
1:g:80:GLU:HG3	1:g:81:LYS:HG3	2.01	0.42
1:g:89:PRO:HD3	1:g:281:TYR:CD1	2.54	0.42
1:h:191:LYS:HD3	1:h:192:LEU:HD22	2.00	0.42
1:i:214:VAL:HB	1:i:218:ARG:NH1	2.34	0.42
1:j:195:TYR:O	1:j:198:GLU:HG2	2.19	0.42
1:l:190:GLU:O	1:l:193:LYS:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:86:PHE:HB2	1:n:281:TYR:CZ	2.54	0.42
1:o:214:VAL:HB	1:o:218:ARG:NH1	2.34	0.42
1:o:393:LEU:HD23	1:o:396:LEU:HD12	2.00	0.42
1:p:118:ASN:O	1:p:122:LEU:HG	2.20	0.42
1:p:393:LEU:HD23	1:p:396:LEU:HD12	2.00	0.42
1:q:82:TYR:CE1	1:q:129:SER:HB3	2.54	0.42
1:q:89:PRO:HD3	1:q:281:TYR:CD1	2.54	0.42
1:q:173:ASP:HB3	1:q:179:GLU:HB2	2.01	0.42
1:q:214:VAL:HB	1:q:218:ARG:NH1	2.34	0.42
1:s:214:VAL:HB	1:s:218:ARG:NH1	2.34	0.42
1:v:56:GLU:HG3	1:v:133:ARG:HG2	2.01	0.42
1:v:91:PRO:HG2	1:v:109:ARG:HA	2.01	0.42
1:v:118:ASN:O	1:v:122:LEU:HG	2.20	0.42
1:w:91:PRO:HG2	1:w:109:ARG:HA	2.02	0.42
1:w:369:VAL:O	1:w:373:GLN:HG2	2.20	0.42
1:z:86:PHE:HB2	1:z:281:TYR:OH	2.19	0.42
1:z:173:ASP:HB3	1:z:179:GLU:HB2	2.01	0.42
1:z:218:ARG:NH1	1:z:264:ALA:HB1	2.34	0.42
1:1:80:GLU:HG3	1:1:81:LYS:HG3	2.01	0.42
1:1:86:PHE:HB2	1:1:281:TYR:CZ	2.54	0.42
1:2:89:PRO:HD3	1:2:281:TYR:CD1	2.54	0.42
1:3:214:VAL:HB	1:3:218:ARG:NH1	2.34	0.42
1:4:86:PHE:HB2	1:4:281:TYR:OH	2.19	0.42
1:4:395:LYS:HE2	1:4:395:LYS:HB3	1.71	0.42
1:6:86:PHE:HB2	1:6:281:TYR:OH	2.19	0.42
1:9:80:GLU:HG3	1:9:81:LYS:HG3	2.01	0.42
1:9:91:PRO:HG2	1:9:109:ARG:HA	2.02	0.42
1:9:218:ARG:NH1	1:9:264:ALA:HB1	2.34	0.42
1:9:369:VAL:O	1:9:373:GLN:HG2	2.20	0.42
1:A:86:PHE:HB2	1:A:281:TYR:OH	2.19	0.42
1:A:195:TYR:O	1:A:198:GLU:HG2	2.19	0.42
1:AB:195:TYR:O	1:AB:198:GLU:HG2	2.19	0.42
1:AC:320:ARG:NH2	1:i:183:GLU:HB3	2.34	0.42
1:AD:118:ASN:O	1:AD:122:LEU:HG	2.20	0.42
1:AD:173:ASP:HB3	1:AD:179:GLU:HB2	2.01	0.42
1:AD:195:TYR:O	1:AD:198:GLU:HG2	2.19	0.42
1:AE:86:PHE:HB2	1:AE:281:TYR:CZ	2.54	0.42
1:AF:80:GLU:HG3	1:AF:81:LYS:HG3	2.01	0.42
1:AF:191:LYS:HD3	1:AF:192:LEU:HD22	2.00	0.42
1:AF:195:TYR:O	1:AF:198:GLU:HG2	2.19	0.42
1:AG:91:PRO:HG2	1:AG:109:ARG:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AG:118:ASN:O	1:AG:122:LEU:HG	2.20	0.42
1:AH:91:PRO:HG2	1:AH:109:ARG:HA	2.02	0.42
1:AI:86:PHE:HB2	1:AI:281:TYR:OH	2.19	0.42
1:AI:118:ASN:O	1:AI:122:LEU:HG	2.20	0.42
1:AI:372:HIS:HA	1:AJ:396:LEU:HD13	2.02	0.42
1:AJ:86:PHE:HB2	1:AJ:281:TYR:CZ	2.54	0.42
1:AJ:86:PHE:HB2	1:AJ:281:TYR:OH	2.19	0.42
1:AK:372:HIS:HA	1:AL:396:LEU:HD13	2.02	0.42
1:AM:173:ASP:HB3	1:AM:179:GLU:HB2	2.01	0.42
1:AM:218:ARG:NH1	1:AM:264:ALA:HB1	2.35	0.42
1:AN:56:GLU:HG3	1:AN:133:ARG:HG2	2.02	0.42
1:AO:195:TYR:O	1:AO:198:GLU:HG2	2.19	0.42
1:AQ:56:GLU:HG3	1:AQ:133:ARG:HG2	2.02	0.42
1:AR:91:PRO:HG2	1:AR:109:ARG:HA	2.02	0.42
1:AR:118:ASN:O	1:AR:122:LEU:HG	2.20	0.42
1:AS:170:LYS:HG3	1:AS:171:VAL:N	2.35	0.42
1:B:195:TYR:O	1:B:198:GLU:HG2	2.19	0.42
1:G:82:TYR:CE1	1:G:129:SER:HB3	2.54	0.42
1:H:118:ASN:O	1:H:122:LEU:HG	2.20	0.42
1:J:173:ASP:HB3	1:J:179:GLU:HB2	2.00	0.42
1:J:191:LYS:HD3	1:J:192:LEU:HD22	2.00	0.42
1:L:178:LYS:HA	1:L:178:LYS:HD3	1.76	0.42
1:L:214:VAL:HB	1:L:218:ARG:NH1	2.34	0.42
1:L:393:LEU:HD23	1:L:396:LEU:HD12	2.00	0.42
1:N:86:PHE:HB2	1:N:281:TYR:OH	2.19	0.42
1:O:218:ARG:NH1	1:O:264:ALA:HB1	2.35	0.42
1:O:393:LEU:HD23	1:O:396:LEU:HD12	2.00	0.42
1:P:86:PHE:HB2	1:P:281:TYR:CZ	2.54	0.42
1:P:328:GLU:HG3	1:P:332:ARG:NH2	2.33	0.42
1:Q:202:HIS:HB3	1:R:233:LEU:HD12	2.00	0.42
1:R:86:PHE:HB2	1:R:281:TYR:CZ	2.54	0.42
1:R:309:LYS:HE3	1:R:309:LYS:HB3	1.82	0.42
1:S:89:PRO:HD3	1:S:281:TYR:CD1	2.54	0.42
1:T:89:PRO:HD3	1:T:281:TYR:CD1	2.54	0.42
1:U:214:VAL:HB	1:U:218:ARG:NH1	2.34	0.42
1:V:56:GLU:HG3	1:V:133:ARG:HG2	2.02	0.42
1:W:91:PRO:HG2	1:W:109:ARG:HA	2.02	0.42
1:W:195:TYR:O	1:W:198:GLU:HG2	2.19	0.42
1:X:214:VAL:HB	1:X:218:ARG:NH1	2.34	0.42
1:Y:86:PHE:HB2	1:Y:281:TYR:OH	2.19	0.42
1:Y:170:LYS:HG3	1:Y:171:VAL:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:173:ASP:HB3	1:Z:179:GLU:HB2	2.01	0.42
1:a:393:LEU:HD23	1:a:396:LEU:HD12	2.00	0.42
1:b:190:GLU:O	1:b:193:LYS:HG2	2.19	0.42
1:c:118:ASN:O	1:c:122:LEU:HG	2.20	0.42
1:d:118:ASN:O	1:d:122:LEU:HG	2.20	0.42
1:d:214:VAL:HB	1:d:218:ARG:NH1	2.34	0.42
1:e:80:GLU:HG3	1:e:81:LYS:HG3	2.01	0.42
1:e:178:LYS:HD3	1:e:178:LYS:HA	1.76	0.42
1:f:173:ASP:HB3	1:f:179:GLU:HB2	2.01	0.42
1:g:369:VAL:O	1:g:373:GLN:HG2	2.20	0.42
1:h:89:PRO:HD3	1:h:281:TYR:CD1	2.54	0.42
1:h:214:VAL:HB	1:h:218:ARG:NH1	2.34	0.42
1:i:393:LEU:HD23	1:i:396:LEU:HD12	2.00	0.42
1:j:191:LYS:HD3	1:j:192:LEU:HD22	2.00	0.42
1:k:86:PHE:HB2	1:k:281:TYR:OH	2.19	0.42
1:k:91:PRO:HG2	1:k:109:ARG:HA	2.02	0.42
1:k:218:ARG:NH1	1:k:264:ALA:HB1	2.34	0.42
1:l:218:ARG:NH1	1:l:264:ALA:HB1	2.34	0.42
1:o:56:GLU:HG3	1:o:133:ARG:HG2	2.01	0.42
1:q:118:ASN:O	1:q:122:LEU:HG	2.20	0.42
1:t:80:GLU:HG3	1:t:81:LYS:HG3	2.01	0.42
1:t:91:PRO:HG2	1:t:109:ARG:HA	2.02	0.42
1:t:173:ASP:HB3	1:t:179:GLU:HB2	2.01	0.42
1:u:86:PHE:HB2	1:u:281:TYR:OH	2.19	0.42
1:v:173:ASP:HB3	1:v:179:GLU:HB2	2.00	0.42
1:v:393:LEU:HD22	1:w:372:HIS:NE2	2.35	0.42
1:w:195:TYR:O	1:w:198:GLU:HG2	2.19	0.42
1:x:56:GLU:HG3	1:x:133:ARG:HG2	2.02	0.42
1:x:372:HIS:HA	1:y:396:LEU:HD13	2.02	0.42
1:z:56:GLU:HG3	1:z:133:ARG:HG2	2.02	0.42
1:z:118:ASN:O	1:z:122:LEU:HG	2.20	0.42
1:z:369:VAL:O	1:z:373:GLN:HG2	2.20	0.42
1:0:91:PRO:HG2	1:0:109:ARG:HA	2.02	0.42
1:0:118:ASN:O	1:0:122:LEU:HG	2.20	0.42
1:1:191:LYS:HD3	1:1:192:LEU:HD22	2.00	0.42
1:4:218:ARG:NH1	1:4:264:ALA:HB1	2.34	0.42
1:6:91:PRO:HG2	1:6:109:ARG:HA	2.02	0.42
1:6:195:TYR:O	1:6:198:GLU:HG2	2.19	0.42
1:6:202:HIS:HB3	1:7:234:LEU:HA	2.02	0.42
1:7:82:TYR:CE1	1:7:129:SER:HB3	2.54	0.42
1:7:191:LYS:HD3	1:7:192:LEU:HD22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:86:PHE:HB2	1:8:281:TYR:CZ	2.54	0.42
1:9:173:ASP:HB3	1:9:179:GLU:HB2	2.01	0.42
1:AA:118:ASN:O	1:AA:122:LEU:HG	2.20	0.42
1:AB:118:ASN:O	1:AB:122:LEU:HG	2.20	0.42
1:AB:214:VAL:HB	1:AB:218:ARG:NH1	2.34	0.42
1:AD:91:PRO:HG2	1:AD:109:ARG:HA	2.02	0.42
1:AE:80:GLU:HG3	1:AE:81:LYS:HG3	2.01	0.42
1:AE:89:PRO:HD3	1:AE:281:TYR:CD1	2.54	0.42
1:AF:89:PRO:HD3	1:AF:281:TYR:CD1	2.54	0.42
1:AG:191:LYS:HD3	1:AG:192:LEU:HD22	2.00	0.42
1:AG:369:VAL:O	1:AG:373:GLN:HG2	2.20	0.42
1:AH:173:ASP:HB3	1:AH:179:GLU:HB2	2.00	0.42
1:AI:195:TYR:O	1:AI:198:GLU:HG2	2.19	0.42
1:AJ:178:LYS:HD3	1:AJ:178:LYS:HA	1.76	0.42
1:AJ:218:ARG:NH1	1:AJ:264:ALA:HB1	2.35	0.42
1:AJ:309:LYS:HB3	1:AJ:309:LYS:HE3	1.82	0.42
1:AK:86:PHE:HB2	1:AK:281:TYR:CZ	2.54	0.42
1:AK:173:ASP:HB3	1:AK:179:GLU:HB2	2.01	0.42
1:AL:191:LYS:HD3	1:AL:192:LEU:HD22	2.00	0.42
1:AL:218:ARG:NH1	1:AL:264:ALA:HB1	2.34	0.42
1:AM:86:PHE:HB2	1:AM:281:TYR:OH	2.19	0.42
1:AM:395:LYS:HE2	1:AM:395:LYS:HB3	1.71	0.42
1:AO:86:PHE:HB2	1:AO:281:TYR:CZ	2.54	0.42
1:AO:86:PHE:HB2	1:AO:281:TYR:OH	2.19	0.42
1:AP:80:GLU:HG3	1:AP:81:LYS:HG3	2.01	0.42
1:AP:91:PRO:HG2	1:AP:109:ARG:HA	2.02	0.42
1:AP:195:TYR:O	1:AP:198:GLU:HG2	2.19	0.42
1:AQ:86:PHE:HB2	1:AQ:281:TYR:CZ	2.54	0.42
1:AQ:89:PRO:HD3	1:AQ:281:TYR:CD1	2.54	0.42
1:AR:86:PHE:HB2	1:AR:281:TYR:OH	2.19	0.42
1:AR:173:ASP:HB3	1:AR:179:GLU:HB2	2.01	0.42
1:AS:86:PHE:HB2	1:AS:281:TYR:OH	2.19	0.42
1:AS:91:PRO:HG2	1:AS:109:ARG:HA	2.02	0.42
1:B:86:PHE:HB2	1:B:281:TYR:OH	2.19	0.42
1:B:173:ASP:HB3	1:B:179:GLU:HB2	2.01	0.42
1:B:218:ARG:NH1	1:B:264:ALA:HB1	2.35	0.42
1:C:86:PHE:HB2	1:C:281:TYR:CZ	2.54	0.42
1:C:86:PHE:HB2	1:C:281:TYR:OH	2.19	0.42
1:D:80:GLU:HG3	1:D:81:LYS:HG3	2.01	0.42
1:D:393:LEU:HD23	1:D:396:LEU:HD12	2.00	0.42
1:E:170:LYS:HG3	1:E:171:VAL:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:173:ASP:HB3	1:F:179:GLU:HB2	2.01	0.42
1:G:173:ASP:HB3	1:G:179:GLU:HB2	2.01	0.42
1:G:202:HIS:HB3	1:H:233:LEU:HD12	2.00	0.42
1:H:178:LYS:HD3	1:H:178:LYS:HA	1.76	0.42
1:I:82:TYR:CE1	1:I:129:SER:HB3	2.54	0.42
1:I:195:TYR:O	1:I:198:GLU:HG2	2.19	0.42
1:L:56:GLU:HG3	1:L:133:ARG:HG2	2.02	0.42
1:L:328:GLU:HG3	1:L:332:ARG:NH2	2.33	0.42
1:M:118:ASN:O	1:M:122:LEU:HG	2.20	0.42
1:M:195:TYR:O	1:M:198:GLU:HG2	2.19	0.42
1:N:82:TYR:CE1	1:N:129:SER:HB3	2.54	0.42
1:P:369:VAL:O	1:P:373:GLN:HG2	2.20	0.42
1:Q:195:TYR:O	1:Q:198:GLU:HG2	2.19	0.42
1:R:195:TYR:O	1:R:198:GLU:HG2	2.19	0.42
1:T:86:PHE:HB2	1:T:281:TYR:CZ	2.54	0.42
1:T:214:VAL:HB	1:T:218:ARG:NH1	2.34	0.42
1:U:118:ASN:O	1:U:122:LEU:HG	2.20	0.42
1:U:173:ASP:HB3	1:U:179:GLU:HB2	2.01	0.42
1:V:86:PHE:HB2	1:V:281:TYR:OH	2.19	0.42
1:X:89:PRO:HD3	1:X:281:TYR:CD1	2.54	0.42
1:X:218:ARG:NH1	1:X:264:ALA:HB1	2.35	0.42
1:X:328:GLU:HG3	1:X:332:ARG:NH2	2.33	0.42
1:Y:118:ASN:O	1:Y:122:LEU:HG	2.20	0.42
1:Y:218:ARG:NH1	1:Y:264:ALA:HB1	2.34	0.42
1:Z:118:ASN:O	1:Z:122:LEU:HG	2.20	0.42
1:a:170:LYS:HG3	1:a:171:VAL:N	2.35	0.42
1:a:195:TYR:O	1:a:198:GLU:HG2	2.19	0.42
1:b:328:GLU:HG3	1:b:332:ARG:NH2	2.33	0.42
1:b:372:HIS:NE2	1:c:393:LEU:HD22	2.35	0.42
1:c:91:PRO:HG2	1:c:109:ARG:HA	2.02	0.42
1:d:56:GLU:HG3	1:d:133:ARG:HG2	2.02	0.42
1:d:86:PHE:HB2	1:d:281:TYR:CZ	2.54	0.42
1:d:218:ARG:NH1	1:d:264:ALA:HB1	2.35	0.42
1:e:86:PHE:HB2	1:e:281:TYR:OH	2.19	0.42
1:g:82:TYR:CE1	1:g:129:SER:HB3	2.54	0.42
1:g:170:LYS:HG3	1:g:171:VAL:N	2.35	0.42
1:i:80:GLU:HG3	1:i:81:LYS:HG3	2.01	0.42
1:i:91:PRO:HG2	1:i:109:ARG:HA	2.02	0.42
1:i:118:ASN:O	1:i:122:LEU:HG	2.20	0.42
1:k:369:VAL:O	1:k:373:GLN:HG2	2.20	0.42
1:n:86:PHE:HB2	1:n:281:TYR:OH	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:369:VAL:O	1:n:373:GLN:HG2	2.20	0.42
1:s:170:LYS:HG3	1:s:171:VAL:N	2.35	0.42
1:s:328:GLU:HG3	1:s:332:ARG:NH2	2.33	0.42
1:u:89:PRO:HD3	1:u:281:TYR:CD1	2.54	0.42
1:w:170:LYS:HG3	1:w:171:VAL:N	2.35	0.42
1:y:191:LYS:HD3	1:y:192:LEU:HD22	2.00	0.42
1:0:170:LYS:HG3	1:0:171:VAL:N	2.35	0.42
1:1:118:ASN:O	1:1:122:LEU:HG	2.20	0.42
1:5:118:ASN:O	1:5:122:LEU:HG	2.20	0.42
1:5:195:TYR:O	1:5:198:GLU:HG2	2.19	0.42
1:5:309:LYS:HE3	1:5:309:LYS:HB3	1.82	0.42
1:6:170:LYS:HG3	1:6:171:VAL:N	2.35	0.42
1:7:118:ASN:O	1:7:122:LEU:HG	2.20	0.42
1:8:195:TYR:O	1:8:198:GLU:HG2	2.19	0.42
1:8:369:VAL:O	1:8:373:GLN:HG2	2.20	0.42
1:9:56:GLU:HG3	1:9:133:ARG:HG2	2.02	0.42
1:A:218:ARG:NH1	1:A:264:ALA:HB1	2.34	0.42
1:AA:369:VAL:O	1:AA:373:GLN:HG2	2.20	0.42
1:AB:191:LYS:HD3	1:AB:192:LEU:HD22	2.00	0.42
1:AC:258:ILE:HD11	1:AF:47:ARG:HH11	1.84	0.42
1:AD:395:LYS:HE2	1:AD:395:LYS:HB3	1.71	0.42
1:AE:91:PRO:HG2	1:AE:109:ARG:HA	2.02	0.42
1:AF:173:ASP:HB3	1:AF:179:GLU:HB2	2.01	0.42
1:AF:218:ARG:NH1	1:AF:264:ALA:HB1	2.34	0.42
1:AG:173:ASP:HB3	1:AG:179:GLU:HB2	2.01	0.42
1:AG:185:THR:HG21	1:g:318:LEU:HD13	2.01	0.42
1:AH:195:TYR:O	1:AH:198:GLU:HG2	2.19	0.42
1:AJ:80:GLU:HG3	1:AJ:81:LYS:HG3	2.01	0.42
1:AK:118:ASN:O	1:AK:122:LEU:HG	2.20	0.42
1:AM:91:PRO:HG2	1:AM:109:ARG:HA	2.02	0.42
1:AN:195:TYR:O	1:AN:198:GLU:HG2	2.19	0.42
1:AO:118:ASN:O	1:AO:122:LEU:HG	2.20	0.42
1:AO:369:VAL:O	1:AO:373:GLN:HG2	2.20	0.42
1:AP:309:LYS:HE3	1:AP:309:LYS:HB3	1.82	0.42
1:AQ:118:ASN:O	1:AQ:122:LEU:HG	2.20	0.42
1:C:195:TYR:O	1:C:198:GLU:HG2	2.19	0.42
1:C:372:HIS:CB	1:D:400:TYR:HE2	2.31	0.42
1:C:393:LEU:HD22	1:D:372:HIS:NE2	2.35	0.42
1:E:82:TYR:CE1	1:E:129:SER:HB3	2.54	0.42
1:E:91:PRO:HG2	1:E:109:ARG:HA	2.02	0.42
1:F:86:PHE:HB2	1:F:281:TYR:OH	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:195:TYR:O	1:F:198:GLU:HG2	2.19	0.42
1:F:214:VAL:HB	1:F:218:ARG:NH1	2.34	0.42
1:G:86:PHE:HB2	1:G:281:TYR:OH	2.19	0.42
1:G:118:ASN:O	1:G:122:LEU:HG	2.20	0.42
1:G:218:ARG:NH1	1:G:264:ALA:HB1	2.35	0.42
1:H:82:TYR:CE1	1:H:129:SER:HB3	2.54	0.42
1:H:91:PRO:HG2	1:H:109:ARG:HA	2.01	0.42
1:H:314:ASP:O	1:H:318:LEU:HD23	2.20	0.42
1:I:86:PHE:HB2	1:I:281:TYR:CZ	2.54	0.42
1:K:56:GLU:HG3	1:K:133:ARG:HG2	2.02	0.42
1:M:170:LYS:HG3	1:M:171:VAL:N	2.35	0.42
1:M:214:VAL:HB	1:M:218:ARG:NH1	2.34	0.42
1:N:80:GLU:HG3	1:N:81:LYS:HG3	2.01	0.42
1:N:89:PRO:HD3	1:N:281:TYR:CD1	2.54	0.42
1:P:191:LYS:HD3	1:P:192:LEU:HD22	2.00	0.42
1:Q:91:PRO:HG2	1:Q:109:ARG:HA	2.02	0.42
1:S:80:GLU:HG3	1:S:81:LYS:HG3	2.01	0.42
1:S:86:PHE:HB2	1:S:281:TYR:OH	2.19	0.42
1:S:91:PRO:HG2	1:S:109:ARG:HA	2.02	0.42
1:T:118:ASN:O	1:T:122:LEU:HG	2.20	0.42
1:U:91:PRO:HG2	1:U:109:ARG:HA	2.02	0.42
1:U:218:ARG:NH1	1:U:264:ALA:HB1	2.35	0.42
1:V:214:VAL:HB	1:V:218:ARG:NH1	2.34	0.42
1:V:218:ARG:NH1	1:V:264:ALA:HB1	2.35	0.42
1:W:118:ASN:O	1:W:122:LEU:HG	2.20	0.42
1:X:86:PHE:HB2	1:X:281:TYR:OH	2.19	0.42
1:Z:56:GLU:HG3	1:Z:133:ARG:HG2	2.02	0.42
1:b:86:PHE:HB2	1:b:281:TYR:CZ	2.54	0.42
1:c:86:PHE:HB2	1:c:281:TYR:OH	2.19	0.42
1:h:218:ARG:NH1	1:h:264:ALA:HB1	2.35	0.42
1:i:369:VAL:O	1:i:373:GLN:HG2	2.20	0.42
1:j:80:GLU:HG3	1:j:81:LYS:HG3	2.01	0.42
1:l:56:GLU:HG3	1:l:133:ARG:HG2	2.01	0.42
1:l:118:ASN:O	1:l:122:LEU:HG	2.20	0.42
1:l:214:VAL:HB	1:l:218:ARG:NH1	2.34	0.42
1:l:395:LYS:HB3	1:l:395:LYS:HE2	1.71	0.42
1:m:56:GLU:HG3	1:m:133:ARG:HG2	2.02	0.42
1:m:218:ARG:NH1	1:m:264:ALA:HB1	2.35	0.42
1:n:80:GLU:HG3	1:n:81:LYS:HG3	2.01	0.42
1:n:89:PRO:HD3	1:n:281:TYR:CD1	2.54	0.42
1:n:191:LYS:HD3	1:n:192:LEU:HD22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:309:LYS:HE3	1:o:309:LYS:HB3	1.82	0.42
1:p:56:GLU:HG3	1:p:133:ARG:HG2	2.01	0.42
1:r:82:TYR:CE1	1:r:129:SER:HB3	2.54	0.42
1:s:118:ASN:O	1:s:122:LEU:HG	2.20	0.42
1:s:173:ASP:HB3	1:s:179:GLU:HB2	2.01	0.42
1:s:195:TYR:O	1:s:198:GLU:HG2	2.19	0.42
1:t:191:LYS:HD3	1:t:192:LEU:HD22	2.00	0.42
1:u:173:ASP:HB3	1:u:179:GLU:HB2	2.01	0.42
1:u:195:TYR:O	1:u:198:GLU:HG2	2.19	0.42
1:x:170:LYS:HG3	1:x:171:VAL:N	2.35	0.42
1:x:369:VAL:O	1:x:373:GLN:HG2	2.20	0.42
1:1:89:PRO:HD3	1:1:281:TYR:CD1	2.54	0.42
1:2:328:GLU:HG3	1:2:332:ARG:NH2	2.33	0.42
1:2:369:VAL:O	1:2:373:GLN:HG2	2.20	0.42
1:4:202:HIS:HE1	1:5:237:CYS:HB3	1.84	0.42
1:5:56:GLU:HG3	1:5:133:ARG:HG2	2.02	0.42
1:5:376:LYS:HA	1:5:376:LYS:HD2	1.94	0.42
1:9:170:LYS:HG3	1:9:171:VAL:N	2.35	0.42
1:A:214:VAL:HB	1:A:218:ARG:NH1	2.34	0.42
1:A:330:GLU:HA	1:A:333:GLU:HG2	2.02	0.42
1:AA:314:ASP:O	1:AA:318:LEU:HD23	2.20	0.42
1:AB:80:GLU:HG3	1:AB:81:LYS:HG3	2.01	0.42
1:AC:218:ARG:NH1	1:AC:264:ALA:HB1	2.35	0.42
1:AC:395:LYS:HB3	1:AC:395:LYS:HE2	1.71	0.42
1:AD:214:VAL:HB	1:AD:218:ARG:NH1	2.34	0.42
1:AF:369:VAL:O	1:AF:373:GLN:HG2	2.20	0.42
1:AG:195:TYR:O	1:AG:198:GLU:HG2	2.19	0.42
1:AH:395:LYS:HE2	1:AH:395:LYS:HB3	1.71	0.42
1:AJ:49:ILE:HA	1:AJ:63:ILE:HG12	2.02	0.42
1:AJ:190:GLU:O	1:AJ:193:LYS:HG2	2.19	0.42
1:AJ:191:LYS:HD3	1:AJ:192:LEU:HD22	2.00	0.42
1:AL:49:ILE:HA	1:AL:63:ILE:HG12	2.02	0.42
1:AL:395:LYS:HE2	1:AL:395:LYS:HB3	1.71	0.42
1:AM:328:GLU:HG3	1:AM:332:ARG:NH2	2.33	0.42
1:AN:173:ASP:HB3	1:AN:179:GLU:HB2	2.01	0.42
1:AP:369:VAL:O	1:AP:373:GLN:HG2	2.20	0.42
1:AQ:49:ILE:HA	1:AQ:63:ILE:HG12	2.02	0.42
1:AQ:86:PHE:HB2	1:AQ:281:TYR:OH	2.19	0.42
1:AQ:330:GLU:HA	1:AQ:333:GLU:HG2	2.02	0.42
1:AS:173:ASP:HB3	1:AS:179:GLU:HB2	2.01	0.42
1:AS:195:TYR:O	1:AS:198:GLU:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:56:GLU:HG3	1:C:133:ARG:HG2	2.01	0.42
1:C:314:ASP:O	1:C:318:LEU:HD23	2.20	0.42
1:E:369:VAL:O	1:E:373:GLN:HG2	2.20	0.42
1:F:218:ARG:NH1	1:F:264:ALA:HB1	2.35	0.42
1:G:214:VAL:HB	1:G:218:ARG:NH1	2.34	0.42
1:I:89:PRO:HD3	1:I:281:TYR:CD1	2.54	0.42
1:I:91:PRO:HG2	1:I:109:ARG:HA	2.01	0.42
1:I:118:ASN:O	1:I:122:LEU:HG	2.20	0.42
1:I:328:GLU:HG3	1:I:332:ARG:NH2	2.33	0.42
1:J:80:GLU:HG3	1:J:81:LYS:HG3	2.01	0.42
1:J:214:VAL:HB	1:J:218:ARG:NH1	2.34	0.42
1:J:314:ASP:O	1:J:318:LEU:HD23	2.20	0.42
1:K:195:TYR:O	1:K:198:GLU:HG2	2.19	0.42
1:K:369:VAL:O	1:K:373:GLN:HG2	2.20	0.42
1:L:86:PHE:HB2	1:L:281:TYR:OH	2.19	0.42
1:N:86:PHE:HB2	1:N:281:TYR:CZ	2.54	0.42
1:N:190:GLU:O	1:N:193:LYS:HG2	2.19	0.42
1:N:214:VAL:HB	1:N:218:ARG:NH1	2.34	0.42
1:N:218:ARG:NH1	1:N:264:ALA:HB1	2.35	0.42
1:N:328:GLU:HG3	1:N:332:ARG:NH2	2.33	0.42
1:N:395:LYS:HB3	1:N:395:LYS:HE2	1.71	0.42
1:O:118:ASN:O	1:O:122:LEU:HG	2.20	0.42
1:P:86:PHE:HB2	1:P:281:TYR:OH	2.19	0.42
1:P:330:GLU:HA	1:P:333:GLU:HG2	2.02	0.42
1:Q:170:LYS:HG3	1:Q:171:VAL:N	2.35	0.42
1:Q:369:VAL:O	1:Q:373:GLN:HG2	2.20	0.42
1:R:49:ILE:HA	1:R:63:ILE:HG12	2.02	0.42
1:S:56:GLU:HG3	1:S:133:ARG:HG2	2.02	0.42
1:U:191:LYS:HD3	1:U:192:LEU:HD22	2.00	0.42
1:V:191:LYS:HD3	1:V:192:LEU:HD22	2.00	0.42
1:W:314:ASP:O	1:W:318:LEU:HD23	2.20	0.42
1:W:393:LEU:HD23	1:W:396:LEU:HD12	2.00	0.42
1:X:49:ILE:HA	1:X:63:ILE:HG12	2.02	0.42
1:X:86:PHE:HB2	1:X:281:TYR:CZ	2.54	0.42
1:Z:328:GLU:HG3	1:Z:332:ARG:NH2	2.33	0.42
1:b:49:ILE:HA	1:b:63:ILE:HG12	2.02	0.42
1:d:195:TYR:O	1:d:198:GLU:HG2	2.19	0.42
1:e:56:GLU:HG3	1:e:133:ARG:HG2	2.02	0.42
1:e:82:TYR:CE1	1:e:129:SER:HB3	2.54	0.42
1:f:191:LYS:HD3	1:f:192:LEU:HD22	2.00	0.42
1:g:86:PHE:HB2	1:g:281:TYR:OH	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:g:195:TYR:O	1:g:198:GLU:HG2	2.19	0.42
1:h:86:PHE:HB2	1:h:281:TYR:CZ	2.54	0.42
1:j:49:ILE:HA	1:j:63:ILE:HG12	2.02	0.42
1:j:214:VAL:HB	1:j:218:ARG:NH1	2.34	0.42
1:j:314:ASP:O	1:j:318:LEU:HD23	2.20	0.42
1:k:118:ASN:O	1:k:122:LEU:HG	2.20	0.42
1:k:170:LYS:HG3	1:k:171:VAL:N	2.35	0.42
1:l:86:PHE:HB2	1:l:281:TYR:OH	2.19	0.42
1:l:234:LEU:HA	1:m:202:HIS:HB3	2.02	0.42
1:m:118:ASN:O	1:m:122:LEU:HG	2.20	0.42
1:o:118:ASN:O	1:o:122:LEU:HG	2.20	0.42
1:o:218:ARG:NH1	1:o:264:ALA:HB1	2.35	0.42
1:o:395:LYS:HB3	1:o:395:LYS:HE2	1.71	0.42
1:r:56:GLU:HG3	1:r:133:ARG:HG2	2.02	0.42
1:r:214:VAL:HB	1:r:218:ARG:NH1	2.34	0.42
1:s:218:ARG:NH1	1:s:264:ALA:HB1	2.35	0.42
1:t:170:LYS:HG3	1:t:171:VAL:N	2.35	0.42
1:u:369:VAL:O	1:u:373:GLN:HG2	2.20	0.42
1:x:173:ASP:HB3	1:x:179:GLU:HB2	2.01	0.42
1:y:86:PHE:HB2	1:y:281:TYR:OH	2.19	0.42
1:y:91:PRO:HG2	1:y:109:ARG:HA	2.02	0.42
1:y:118:ASN:O	1:y:122:LEU:HG	2.20	0.42
1:y:369:VAL:O	1:y:373:GLN:HG2	2.20	0.42
1:0:314:ASP:O	1:0:318:LEU:HD23	2.20	0.42
1:1:369:VAL:O	1:1:373:GLN:HG2	2.20	0.42
1:2:82:TYR:CE1	1:2:129:SER:HB3	2.54	0.42
1:3:118:ASN:O	1:3:122:LEU:HG	2.20	0.42
1:3:173:ASP:HB3	1:3:179:GLU:HB2	2.01	0.42
1:4:49:ILE:HA	1:4:63:ILE:HG12	2.02	0.42
1:4:167:VAL:HG13	1:4:170:LYS:HZ2	1.84	0.42
1:7:190:GLU:O	1:7:193:LYS:HG2	2.19	0.42
1:7:328:GLU:HG3	1:7:332:ARG:NH2	2.33	0.42
1:8:170:LYS:HG3	1:8:171:VAL:N	2.35	0.42
1:9:89:PRO:HD3	1:9:281:TYR:CD1	2.54	0.42
1:A:49:ILE:HA	1:A:63:ILE:HG12	2.02	0.42
1:A:202:HIS:HB3	1:B:234:LEU:HA	2.02	0.42
1:A:209:HIS:CE1	1:B:229:LYS:HZ1	2.37	0.42
1:AA:393:LEU:HD22	1:AB:372:HIS:CE1	2.55	0.42
1:AB:49:ILE:HA	1:AB:63:ILE:HG12	2.02	0.42
1:AB:56:GLU:HG3	1:AB:133:ARG:HG2	2.01	0.42
1:AD:309:LYS:HB3	1:AD:309:LYS:HE3	1.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:191:LYS:HD3	1:AE:192:LEU:HD22	2.00	0.42
1:AH:214:VAL:HB	1:AH:218:ARG:NH1	2.34	0.42
1:AI:214:VAL:HB	1:AI:218:ARG:NH1	2.34	0.42
1:AJ:328:GLU:HG3	1:AJ:332:ARG:NH2	2.33	0.42
1:AJ:369:VAL:O	1:AJ:373:GLN:HG2	2.20	0.42
1:AK:314:ASP:O	1:AK:318:LEU:HD23	2.20	0.42
1:AK:369:VAL:O	1:AK:373:GLN:HG2	2.20	0.42
1:AL:328:GLU:HG3	1:AL:332:ARG:NH2	2.33	0.42
1:AN:49:ILE:HA	1:AN:63:ILE:HG12	2.02	0.42
1:AN:214:VAL:HB	1:AN:218:ARG:NH1	2.34	0.42
1:AN:314:ASP:O	1:AN:318:LEU:HD23	2.20	0.42
1:AO:170:LYS:HG3	1:AO:171:VAL:N	2.35	0.42
1:AO:173:ASP:HB3	1:AO:179:GLU:HB2	2.01	0.42
1:AO:190:GLU:O	1:AO:193:LYS:HG2	2.19	0.42
1:AP:314:ASP:O	1:AP:318:LEU:HD23	2.20	0.42
1:AR:89:PRO:HD3	1:AR:281:TYR:CD1	2.54	0.42
1:C:49:ILE:HA	1:C:63:ILE:HG12	2.02	0.42
1:C:89:PRO:HD3	1:C:281:TYR:CD1	2.54	0.42
1:C:214:VAL:HB	1:C:218:ARG:NH1	2.34	0.42
1:C:330:GLU:HA	1:C:333:GLU:HG2	2.02	0.42
1:D:369:VAL:O	1:D:373:GLN:HG2	2.20	0.42
1:E:118:ASN:O	1:E:122:LEU:HG	2.20	0.42
1:F:49:ILE:HA	1:F:63:ILE:HG12	2.02	0.42
1:G:56:GLU:HG3	1:G:133:ARG:HG2	2.02	0.42
1:G:191:LYS:HD3	1:G:192:LEU:HD22	2.00	0.42
1:I:330:GLU:HA	1:I:333:GLU:HG2	2.02	0.42
1:J:56:GLU:HG3	1:J:133:ARG:HG2	2.02	0.42
1:J:118:ASN:O	1:J:122:LEU:HG	2.20	0.42
1:K:170:LYS:HG3	1:K:171:VAL:N	2.35	0.42
1:O:80:GLU:HG3	1:O:81:LYS:HG3	2.01	0.42
1:P:49:ILE:HA	1:P:63:ILE:HG12	2.02	0.42
1:P:89:PRO:HD3	1:P:281:TYR:CD1	2.54	0.42
1:P:118:ASN:O	1:P:122:LEU:HG	2.20	0.42
1:P:218:ARG:NH1	1:P:264:ALA:HB1	2.35	0.42
1:Q:223:SER:HB2	1:R:213:LEU:CD2	2.48	0.42
1:Q:314:ASP:O	1:Q:318:LEU:HD23	2.20	0.42
1:Q:393:LEU:HD22	1:R:372:HIS:CE1	2.55	0.42
1:R:173:ASP:HB3	1:R:179:GLU:HB2	2.00	0.42
1:R:328:GLU:HG3	1:R:332:ARG:NH2	2.33	0.42
1:S:118:ASN:O	1:S:122:LEU:HG	2.20	0.42
1:T:191:LYS:HD3	1:T:192:LEU:HD22	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:49:ILE:HA	1:V:63:ILE:HG12	2.02	0.42
1:W:252:LYS:HA	1:W:252:LYS:HD3	1.80	0.42
1:X:167:VAL:HG13	1:X:170:LYS:HZ2	1.85	0.42
1:X:369:VAL:O	1:X:373:GLN:HG2	2.20	0.42
1:b:173:ASP:HB3	1:b:179:GLU:HB2	2.01	0.42
1:b:178:LYS:HD3	1:b:178:LYS:HA	1.76	0.42
1:c:56:GLU:HG3	1:c:133:ARG:HG2	2.02	0.42
1:c:369:VAL:O	1:c:373:GLN:HG2	2.20	0.42
1:d:49:ILE:HA	1:d:63:ILE:HG12	2.02	0.42
1:d:173:ASP:HB3	1:d:179:GLU:HB2	2.01	0.42
1:e:195:TYR:O	1:e:198:GLU:HG2	2.19	0.42
1:h:369:VAL:O	1:h:373:GLN:HG2	2.20	0.42
1:i:56:GLU:HG3	1:i:133:ARG:HG2	2.01	0.42
1:i:170:LYS:HG3	1:i:171:VAL:N	2.35	0.42
1:m:82:TYR:CE1	1:m:129:SER:HB3	2.54	0.42
1:n:49:ILE:HA	1:n:63:ILE:HG12	2.02	0.42
1:o:369:VAL:O	1:o:373:GLN:HG2	2.20	0.42
1:p:214:VAL:HB	1:p:218:ARG:NH1	2.34	0.42
1:q:170:LYS:HG3	1:q:171:VAL:N	2.35	0.42
1:r:173:ASP:HB3	1:r:179:GLU:HB2	2.01	0.42
1:r:178:LYS:HD3	1:r:178:LYS:HA	1.76	0.42
1:r:369:VAL:O	1:r:373:GLN:HG2	2.20	0.42
1:s:86:PHE:HB2	1:s:281:TYR:CZ	2.54	0.42
1:t:86:PHE:HB2	1:t:281:TYR:OH	2.19	0.42
1:t:89:PRO:HD3	1:t:281:TYR:CD1	2.54	0.42
1:t:218:ARG:NH1	1:t:264:ALA:HB1	2.34	0.42
1:v:86:PHE:HB2	1:v:281:TYR:OH	2.19	0.42
1:w:173:ASP:HB3	1:w:179:GLU:HB2	2.01	0.42
1:y:89:PRO:HD3	1:y:281:TYR:CD1	2.54	0.42
1:z:170:LYS:HG3	1:z:171:VAL:N	2.35	0.42
1:1:91:PRO:HG2	1:1:109:ARG:HA	2.02	0.41
1:1:372:HIS:CE1	1:z:393:LEU:HD22	2.55	0.41
1:2:49:ILE:HA	1:2:63:ILE:HG12	2.02	0.41
1:2:190:GLU:O	1:2:193:LYS:HG2	2.19	0.41
1:3:314:ASP:O	1:3:318:LEU:HD23	2.20	0.41
1:4:118:ASN:O	1:4:122:LEU:HG	2.20	0.41
1:7:49:ILE:HA	1:7:63:ILE:HG12	2.02	0.41
1:9:118:ASN:O	1:9:122:LEU:HG	2.20	0.41
1:9:178:LYS:HA	1:9:178:LYS:HD3	1.76	0.41
1:A:314:ASP:O	1:A:318:LEU:HD23	2.20	0.41
1:AA:56:GLU:HG3	1:AA:133:ARG:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:89:PRO:HD3	1:AA:281:TYR:CD1	2.54	0.41
1:AA:170:LYS:HG3	1:AA:171:VAL:N	2.35	0.41
1:AA:173:ASP:HB3	1:AA:179:GLU:HB2	2.01	0.41
1:AD:56:GLU:HG3	1:AD:133:ARG:HG2	2.01	0.41
1:AH:89:PRO:HD3	1:AH:281:TYR:CD1	2.54	0.41
1:AJ:214:VAL:HB	1:AJ:218:ARG:NH1	2.34	0.41
1:AK:56:GLU:HG3	1:AK:133:ARG:HG2	2.02	0.41
1:AK:195:TYR:O	1:AK:198:GLU:HG2	2.19	0.41
1:AK:232:LYS:HA	1:AK:246:PHE:HB3	2.02	0.41
1:AL:118:ASN:O	1:AL:122:LEU:HG	2.20	0.41
1:AM:314:ASP:O	1:AM:318:LEU:HD23	2.20	0.41
1:AN:328:GLU:HG3	1:AN:332:ARG:NH2	2.33	0.41
1:AP:118:ASN:O	1:AP:122:LEU:HG	2.20	0.41
1:AQ:173:ASP:HB3	1:AQ:179:GLU:HB2	2.01	0.41
1:AS:118:ASN:O	1:AS:122:LEU:HG	2.20	0.41
1:B:214:VAL:HB	1:B:218:ARG:NH1	2.34	0.41
1:B:369:VAL:O	1:B:373:GLN:HG2	2.20	0.41
1:C:118:ASN:O	1:C:122:LEU:HG	2.20	0.41
1:D:86:PHE:HB2	1:D:281:TYR:OH	2.19	0.41
1:E:86:PHE:HB2	1:E:281:TYR:OH	2.19	0.41
1:G:49:ILE:HA	1:G:63:ILE:HG12	2.02	0.41
1:G:330:GLU:HA	1:G:333:GLU:HG2	2.02	0.41
1:G:393:LEU:HD22	1:H:372:HIS:CE1	2.55	0.41
1:H:86:PHE:HB2	1:H:281:TYR:OH	2.19	0.41
1:I:170:LYS:HG3	1:I:171:VAL:N	2.35	0.41
1:I:214:VAL:HB	1:I:218:ARG:NH1	2.34	0.41
1:I:314:ASP:O	1:I:318:LEU:HD23	2.20	0.41
1:J:218:ARG:NH1	1:J:264:ALA:HB1	2.35	0.41
1:J:369:VAL:O	1:J:373:GLN:HG2	2.20	0.41
1:L:49:ILE:HA	1:L:63:ILE:HG12	2.02	0.41
1:L:195:TYR:O	1:L:198:GLU:HG2	2.19	0.41
1:M:56:GLU:HG3	1:M:133:ARG:HG2	2.02	0.41
1:M:86:PHE:HB2	1:M:281:TYR:OH	2.19	0.41
1:M:206:ALA:HA	1:N:230:ALA:HB1	2.02	0.41
1:N:49:ILE:HA	1:N:63:ILE:HG12	2.02	0.41
1:N:314:ASP:O	1:N:318:LEU:HD23	2.20	0.41
1:N:369:VAL:O	1:N:373:GLN:HG2	2.20	0.41
1:O:86:PHE:HB2	1:O:281:TYR:OH	2.19	0.41
1:O:232:LYS:HA	1:O:246:PHE:HB3	2.02	0.41
1:P:314:ASP:O	1:P:318:LEU:HD23	2.20	0.41
1:R:118:ASN:O	1:R:122:LEU:HG	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:214:VAL:HB	1:R:218:ARG:NH1	2.34	0.41
1:R:218:ARG:NH1	1:R:264:ALA:HB1	2.35	0.41
1:R:330:GLU:HA	1:R:333:GLU:HG2	2.02	0.41
1:T:86:PHE:HB2	1:T:281:TYR:OH	2.19	0.41
1:V:89:PRO:HD3	1:V:281:TYR:CD1	2.54	0.41
1:Z:91:PRO:HG2	1:Z:109:ARG:HA	2.02	0.41
1:Z:191:LYS:HD3	1:Z:192:LEU:HD22	2.00	0.41
1:b:218:ARG:NH1	1:b:264:ALA:HB1	2.35	0.41
1:d:314:ASP:O	1:d:318:LEU:HD23	2.20	0.41
1:e:369:VAL:O	1:e:373:GLN:HG2	2.20	0.41
1:e:393:LEU:HD23	1:e:396:LEU:HD12	2.00	0.41
1:f:91:PRO:HG2	1:f:109:ARG:HA	2.02	0.41
1:f:330:GLU:HA	1:f:333:GLU:HG2	2.02	0.41
1:g:218:ARG:NH1	1:g:264:ALA:HB1	2.34	0.41
1:h:91:PRO:HG2	1:h:109:ARG:HA	2.02	0.41
1:j:218:ARG:NH1	1:j:264:ALA:HB1	2.34	0.41
1:k:232:LYS:HA	1:k:246:PHE:HB3	2.02	0.41
1:l:49:ILE:HA	1:l:63:ILE:HG12	2.02	0.41
1:m:86:PHE:HB2	1:m:281:TYR:OH	2.19	0.41
1:m:214:VAL:HB	1:m:218:ARG:NH1	2.34	0.41
1:m:314:ASP:O	1:m:318:LEU:HD23	2.20	0.41
1:p:86:PHE:HB2	1:p:281:TYR:OH	2.19	0.41
1:p:314:ASP:O	1:p:318:LEU:HD23	2.20	0.41
1:q:56:GLU:HG3	1:q:133:ARG:HG2	2.02	0.41
1:q:91:PRO:HG2	1:q:109:ARG:HA	2.01	0.41
1:q:195:TYR:O	1:q:198:GLU:HG2	2.19	0.41
1:q:314:ASP:O	1:q:318:LEU:HD23	2.20	0.41
1:r:80:GLU:HG3	1:r:81:LYS:HG3	2.01	0.41
1:s:89:PRO:HD3	1:s:281:TYR:CD1	2.54	0.41
1:s:314:ASP:O	1:s:318:LEU:HD23	2.20	0.41
1:u:191:LYS:HD3	1:u:192:LEU:HD22	2.00	0.41
1:v:80:GLU:HG3	1:v:81:LYS:HG3	2.01	0.41
1:v:89:PRO:HD3	1:v:281:TYR:CD1	2.54	0.41
1:z:195:TYR:O	1:z:198:GLU:HG2	2.19	0.41
1:0:232:LYS:HA	1:0:246:PHE:HB3	2.02	0.41
1:1:86:PHE:HB2	1:1:281:TYR:OH	2.19	0.41
1:1:90:LEU:HD23	1:1:90:LEU:HA	1.93	0.41
1:1:145:ARG:HA	1:1:148:PHE:CD2	2.56	0.41
1:1:292:ARG:CZ	1:1:349:VAL:HG22	2.51	0.41
1:1:309:LYS:HE3	1:1:309:LYS:HB3	1.82	0.41
1:2:145:ARG:HA	1:2:148:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:369:VAL:O	1:3:373:GLN:HG2	2.20	0.41
1:4:56:GLU:HG3	1:4:133:ARG:HG2	2.02	0.41
1:4:80:GLU:HG3	1:4:81:LYS:HG3	2.01	0.41
1:4:369:VAL:O	1:4:373:GLN:HG2	2.20	0.41
1:5:173:ASP:HB3	1:5:179:GLU:HB2	2.01	0.41
1:5:314:ASP:O	1:5:318:LEU:HD23	2.20	0.41
1:5:369:VAL:O	1:5:373:GLN:HG2	2.20	0.41
1:6:209:HIS:CE1	1:7:229:LYS:HZ1	2.38	0.41
1:6:369:VAL:O	1:6:373:GLN:HG2	2.20	0.41
1:8:89:PRO:HD3	1:8:281:TYR:CD1	2.54	0.41
1:8:98:LYS:HE3	1:y:101:PHE:CD2	2.55	0.41
1:9:86:PHE:HB2	1:9:281:TYR:OH	2.19	0.41
1:A:369:VAL:O	1:A:373:GLN:HG2	2.20	0.41
1:AA:232:LYS:HA	1:AA:246:PHE:HB3	2.02	0.41
1:AC:91:PRO:HG2	1:AC:109:ARG:HA	2.02	0.41
1:AC:170:LYS:HG3	1:AC:171:VAL:N	2.35	0.41
1:AC:330:GLU:HA	1:AC:333:GLU:HG2	2.02	0.41
1:AC:369:VAL:O	1:AC:373:GLN:HG2	2.20	0.41
1:AD:89:PRO:HD3	1:AD:281:TYR:CD1	2.54	0.41
1:AE:86:PHE:HB2	1:AE:281:TYR:OH	2.19	0.41
1:AE:145:ARG:HA	1:AE:148:PHE:CD2	2.56	0.41
1:AE:218:ARG:NH1	1:AE:264:ALA:HB1	2.34	0.41
1:AF:145:ARG:HA	1:AF:148:PHE:CD2	2.56	0.41
1:AG:170:LYS:HG3	1:AG:171:VAL:N	2.35	0.41
1:AI:56:GLU:HG3	1:AI:133:ARG:HG2	2.02	0.41
1:AI:90:LEU:HD23	1:AI:90:LEU:HA	1.93	0.41
1:AI:170:LYS:HG3	1:AI:171:VAL:N	2.35	0.41
1:AJ:314:ASP:O	1:AJ:318:LEU:HD23	2.20	0.41
1:AL:145:ARG:HA	1:AL:148:PHE:CD2	2.56	0.41
1:AO:56:GLU:HG3	1:AO:133:ARG:HG2	2.02	0.41
1:AO:89:PRO:HD3	1:AO:281:TYR:CD1	2.54	0.41
1:AO:309:LYS:HE3	1:AO:309:LYS:HB3	1.82	0.41
1:AP:170:LYS:HG3	1:AP:171:VAL:N	2.35	0.41
1:AP:218:ARG:NH1	1:AP:264:ALA:HB1	2.34	0.41
1:AR:56:GLU:HG3	1:AR:133:ARG:HG2	2.02	0.41
1:AR:309:LYS:HE3	1:AR:309:LYS:HB3	1.82	0.41
1:AR:369:VAL:O	1:AR:373:GLN:HG2	2.20	0.41
1:AS:89:PRO:HD3	1:AS:281:TYR:CD1	2.54	0.41
1:D:118:ASN:O	1:D:122:LEU:HG	2.20	0.41
1:D:195:TYR:O	1:D:198:GLU:HG2	2.19	0.41
1:F:328:GLU:HG3	1:F:332:ARG:NH2	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:232:LYS:HA	1:H:246:PHE:HB3	2.02	0.41
1:I:86:PHE:HB2	1:I:281:TYR:OH	2.19	0.41
1:I:173:ASP:HB3	1:I:179:GLU:HB2	2.01	0.41
1:J:309:LYS:HB3	1:J:309:LYS:HE3	1.82	0.41
1:K:82:TYR:CE1	1:K:129:SER:HB3	2.54	0.41
1:K:86:PHE:HB2	1:K:281:TYR:OH	2.19	0.41
1:K:314:ASP:O	1:K:318:LEU:HD23	2.20	0.41
1:N:118:ASN:O	1:N:122:LEU:HG	2.20	0.41
1:N:178:LYS:HA	1:N:178:LYS:HD3	1.76	0.41
1:N:191:LYS:HD3	1:N:192:LEU:HD22	2.00	0.41
1:N:330:GLU:HA	1:N:333:GLU:HG2	2.02	0.41
1:S:145:ARG:HA	1:S:148:PHE:CD2	2.56	0.41
1:S:170:LYS:HG3	1:S:171:VAL:N	2.35	0.41
1:V:330:GLU:HA	1:V:333:GLU:HG2	2.03	0.41
1:W:170:LYS:HG3	1:W:171:VAL:N	2.35	0.41
1:X:330:GLU:HA	1:X:333:GLU:HG2	2.03	0.41
1:Y:395:LYS:HE2	1:Y:395:LYS:HB3	1.71	0.41
1:a:252:LYS:HA	1:a:252:LYS:HD3	1.80	0.41
1:e:118:ASN:O	1:e:122:LEU:HG	2.20	0.41
1:f:314:ASP:O	1:f:318:LEU:HD23	2.20	0.41
1:f:369:VAL:O	1:f:373:GLN:HG2	2.20	0.41
1:f:372:HIS:CD2	1:g:400:TYR:HE2	2.39	0.41
1:h:314:ASP:O	1:h:318:LEU:HD23	2.20	0.41
1:h:330:GLU:HA	1:h:333:GLU:HG2	2.02	0.41
1:i:195:TYR:O	1:i:198:GLU:HG2	2.19	0.41
1:i:218:ARG:NH1	1:i:264:ALA:HB1	2.34	0.41
1:j:145:ARG:HA	1:j:148:PHE:CD2	2.56	0.41
1:j:328:GLU:HG3	1:j:332:ARG:NH2	2.33	0.41
1:k:56:GLU:HG3	1:k:133:ARG:HG2	2.02	0.41
1:l:314:ASP:O	1:l:318:LEU:HD23	2.20	0.41
1:m:369:VAL:O	1:m:373:GLN:HG2	2.20	0.41
1:o:170:LYS:HG3	1:o:171:VAL:N	2.35	0.41
1:p:49:ILE:HA	1:p:63:ILE:HG12	2.02	0.41
1:r:195:TYR:O	1:r:198:GLU:HG2	2.19	0.41
1:s:91:PRO:HG2	1:s:109:ARG:HA	2.02	0.41
1:y:145:ARG:HA	1:y:148:PHE:CD2	2.56	0.41
1:0:178:LYS:HA	1:0:178:LYS:HD3	1.76	0.41
1:1:170:LYS:HG3	1:1:171:VAL:N	2.35	0.41
1:3:252:LYS:HD3	1:3:252:LYS:HA	1.80	0.41
1:4:145:ARG:HA	1:4:148:PHE:CD2	2.55	0.41
1:5:89:PRO:HD3	1:5:281:TYR:CD1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:170:LYS:HG3	1:5:171:VAL:N	2.35	0.41
1:6:292:ARG:CZ	1:6:349:VAL:HG22	2.51	0.41
1:7:86:PHE:HB2	1:7:281:TYR:OH	2.19	0.41
1:7:91:PRO:HG2	1:7:109:ARG:HA	2.02	0.41
1:8:173:ASP:HB3	1:8:179:GLU:HB2	2.00	0.41
1:9:49:ILE:HA	1:9:63:ILE:HG12	2.02	0.41
1:A:206:ALA:HA	1:B:230:ALA:HB1	2.02	0.41
1:AB:145:ARG:HA	1:AB:148:PHE:CD2	2.56	0.41
1:AB:178:LYS:HD3	1:AB:178:LYS:HA	1.76	0.41
1:AB:218:ARG:NH1	1:AB:264:ALA:HB1	2.35	0.41
1:AC:191:LYS:HD3	1:AC:192:LEU:HD22	2.00	0.41
1:AD:86:PHE:HB2	1:AD:281:TYR:OH	2.19	0.41
1:AE:170:LYS:HG3	1:AE:171:VAL:N	2.35	0.41
1:AE:292:ARG:CZ	1:AE:349:VAL:HG22	2.51	0.41
1:AF:118:ASN:O	1:AF:122:LEU:HG	2.20	0.41
1:AG:292:ARG:CZ	1:AG:349:VAL:HG22	2.51	0.41
1:AH:218:ARG:NH1	1:AH:264:ALA:HB1	2.35	0.41
1:AH:252:LYS:HA	1:AH:252:LYS:HD3	1.80	0.41
1:AI:314:ASP:O	1:AI:318:LEU:HD23	2.20	0.41
1:AJ:145:ARG:HA	1:AJ:148:PHE:CD2	2.56	0.41
1:AM:232:LYS:HA	1:AM:246:PHE:HB3	2.02	0.41
1:AM:356:ILE:HD12	1:AM:356:ILE:HA	1.98	0.41
1:AN:80:GLU:HG3	1:AN:81:LYS:HG3	2.01	0.41
1:AN:145:ARG:HA	1:AN:148:PHE:CD2	2.56	0.41
1:AN:218:ARG:NH1	1:AN:264:ALA:HB1	2.35	0.41
1:AP:372:HIS:HA	1:AQ:396:LEU:HD13	2.02	0.41
1:AR:145:ARG:HA	1:AR:148:PHE:CD2	2.56	0.41
1:AR:223:SER:HA	1:AS:212:ARG:HH22	1.84	0.41
1:AS:145:ARG:HA	1:AS:148:PHE:CD2	2.56	0.41
1:AS:292:ARG:CZ	1:AS:349:VAL:HG22	2.51	0.41
1:AS:347:ARG:HA	1:AS:350:LYS:HZ2	1.85	0.41
1:B:328:GLU:HG3	1:B:332:ARG:NH2	2.33	0.41
1:C:369:VAL:O	1:C:373:GLN:HG2	2.20	0.41
1:D:214:VAL:HB	1:D:218:ARG:NH1	2.34	0.41
1:E:232:LYS:HA	1:E:246:PHE:HB3	2.02	0.41
1:E:314:ASP:O	1:E:318:LEU:HD23	2.20	0.41
1:F:309:LYS:HE3	1:F:309:LYS:HB3	1.82	0.41
1:G:369:VAL:O	1:G:373:GLN:HG2	2.20	0.41
1:I:56:GLU:HG3	1:I:133:ARG:HG2	2.01	0.41
1:I:258:ILE:HD11	1:L:47:ARG:HH11	1.84	0.41
1:I:369:VAL:O	1:I:373:GLN:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:330:GLU:HA	1:K:333:GLU:HG2	2.02	0.41
1:L:314:ASP:O	1:L:318:LEU:HD23	2.20	0.41
1:M:232:LYS:HA	1:M:246:PHE:HB3	2.02	0.41
1:P:91:PRO:HG2	1:P:109:ARG:HA	2.01	0.41
1:Q:56:GLU:HG3	1:Q:133:ARG:HG2	2.02	0.41
1:Q:118:ASN:O	1:Q:122:LEU:HG	2.20	0.41
1:S:314:ASP:O	1:S:318:LEU:HD23	2.20	0.41
1:T:91:PRO:HG2	1:T:109:ARG:HA	2.02	0.41
1:T:292:ARG:CZ	1:T:349:VAL:HG22	2.51	0.41
1:T:330:GLU:HA	1:T:333:GLU:HG2	2.02	0.41
1:U:86:PHE:HB2	1:U:281:TYR:OH	2.19	0.41
1:V:369:VAL:O	1:V:373:GLN:HG2	2.20	0.41
1:X:375:ALA:HB1	1:Y:389:TRP:CE3	2.55	0.41
1:Y:56:GLU:HG3	1:Y:133:ARG:HG2	2.02	0.41
1:Z:314:ASP:O	1:Z:318:LEU:HD23	2.20	0.41
1:Z:330:GLU:HA	1:Z:333:GLU:HG2	2.02	0.41
1:b:314:ASP:O	1:b:318:LEU:HD23	2.20	0.41
1:b:330:GLU:HA	1:b:333:GLU:HG2	2.02	0.41
1:c:218:ARG:NH1	1:c:264:ALA:HB1	2.35	0.41
1:c:232:LYS:HA	1:c:246:PHE:HB3	2.02	0.41
1:d:330:GLU:HA	1:d:333:GLU:HG2	2.03	0.41
1:h:49:ILE:HA	1:h:63:ILE:HG12	2.02	0.41
1:h:292:ARG:CZ	1:h:349:VAL:HG22	2.51	0.41
1:i:232:LYS:HA	1:i:246:PHE:HB3	2.02	0.41
1:j:170:LYS:HG3	1:j:171:VAL:N	2.35	0.41
1:l:91:PRO:HG2	1:l:109:ARG:HA	2.02	0.41
1:n:145:ARG:HA	1:n:148:PHE:CD2	2.56	0.41
1:n:330:GLU:HA	1:n:333:GLU:HG2	2.02	0.41
1:o:314:ASP:O	1:o:318:LEU:HD23	2.20	0.41
1:p:218:ARG:NH1	1:p:264:ALA:HB1	2.35	0.41
1:q:292:ARG:CZ	1:q:349:VAL:HG22	2.51	0.41
1:q:330:GLU:HA	1:q:333:GLU:HG2	2.02	0.41
1:r:170:LYS:HG3	1:r:171:VAL:N	2.35	0.41
1:r:218:ARG:NH1	1:r:264:ALA:HB1	2.35	0.41
1:r:314:ASP:O	1:r:318:LEU:HD23	2.20	0.41
1:s:232:LYS:HA	1:s:246:PHE:HB3	2.02	0.41
1:s:330:GLU:HA	1:s:333:GLU:HG2	2.02	0.41
1:t:145:ARG:HA	1:t:148:PHE:CD2	2.56	0.41
1:u:118:ASN:O	1:u:122:LEU:HG	2.20	0.41
1:u:145:ARG:HA	1:u:148:PHE:CD2	2.56	0.41
1:v:170:LYS:HG3	1:v:171:VAL:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:369:VAL:O	1:v:373:GLN:HG2	2.20	0.41
1:w:145:ARG:HA	1:w:148:PHE:CD2	2.56	0.41
1:x:232:LYS:HA	1:x:246:PHE:HB3	2.02	0.41
1:y:49:ILE:HA	1:y:63:ILE:HG12	2.02	0.41
1:y:170:LYS:HG3	1:y:171:VAL:N	2.35	0.41
1:z:145:ARG:HA	1:z:148:PHE:CD2	2.56	0.41
1:z:314:ASP:O	1:z:318:LEU:HD23	2.20	0.41
1:0:195:TYR:O	1:0:198:GLU:HG2	2.19	0.41
1:0:292:ARG:CZ	1:0:349:VAL:HG22	2.51	0.41
1:6:89:PRO:HD3	1:6:281:TYR:CD1	2.54	0.41
1:6:173:ASP:HB3	1:6:179:GLU:HB2	2.01	0.41
1:7:89:PRO:HD3	1:7:281:TYR:CD1	2.54	0.41
1:9:145:ARG:HA	1:9:148:PHE:CD2	2.56	0.41
1:A:170:LYS:HG3	1:A:171:VAL:N	2.35	0.41
1:AA:195:TYR:O	1:AA:198:GLU:HG2	2.19	0.41
1:AB:170:LYS:HG3	1:AB:171:VAL:N	2.35	0.41
1:AC:292:ARG:CZ	1:AC:349:VAL:HG22	2.51	0.41
1:AE:330:GLU:HA	1:AE:333:GLU:HG2	2.02	0.41
1:AF:170:LYS:HG3	1:AF:171:VAL:N	2.35	0.41
1:AH:170:LYS:HG3	1:AH:171:VAL:N	2.35	0.41
1:AK:170:LYS:HG3	1:AK:171:VAL:N	2.35	0.41
1:AL:214:VAL:HB	1:AL:218:ARG:NH1	2.34	0.41
1:AM:330:GLU:HA	1:AM:333:GLU:HG2	2.02	0.41
1:AO:232:LYS:HA	1:AO:246:PHE:HB3	2.03	0.41
1:AP:232:LYS:HA	1:AP:246:PHE:HB3	2.02	0.41
1:AQ:292:ARG:CZ	1:AQ:349:VAL:HG22	2.51	0.41
1:AQ:328:GLU:HG3	1:AQ:332:ARG:NH2	2.33	0.41
1:B:118:ASN:O	1:B:122:LEU:HG	2.20	0.41
1:C:173:ASP:HB3	1:C:179:GLU:HB2	2.01	0.41
1:C:328:GLU:HG3	1:C:332:ARG:NH2	2.33	0.41
1:D:91:PRO:HG2	1:D:109:ARG:HA	2.02	0.41
1:E:56:GLU:HG3	1:E:133:ARG:HG2	2.01	0.41
1:F:145:ARG:HA	1:F:148:PHE:CD2	2.56	0.41
1:F:314:ASP:O	1:F:318:LEU:HD23	2.20	0.41
1:F:395:LYS:HE2	1:F:395:LYS:HB3	1.71	0.41
1:H:170:LYS:HG3	1:H:171:VAL:N	2.35	0.41
1:J:49:ILE:HA	1:J:63:ILE:HG12	2.02	0.41
1:J:145:ARG:HA	1:J:148:PHE:CD2	2.56	0.41
1:K:347:ARG:HA	1:K:350:LYS:HZ2	1.84	0.41
1:L:170:LYS:HG3	1:L:171:VAL:N	2.35	0.41
1:O:56:GLU:HG3	1:O:133:ARG:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:232:LYS:HA	1:Q:246:PHE:HB3	2.02	0.41
1:T:49:ILE:HA	1:T:63:ILE:HG12	2.02	0.41
1:T:145:ARG:HA	1:T:148:PHE:CD2	2.56	0.41
1:U:292:ARG:CZ	1:U:349:VAL:HG22	2.51	0.41
1:U:314:ASP:O	1:U:318:LEU:HD23	2.20	0.41
1:V:395:LYS:HE2	1:V:395:LYS:HB3	1.71	0.41
1:W:86:PHE:HB2	1:W:281:TYR:OH	2.19	0.41
1:X:91:PRO:HG2	1:X:109:ARG:HA	2.01	0.41
1:X:173:ASP:HB3	1:X:179:GLU:HB2	2.01	0.41
1:Y:314:ASP:O	1:Y:318:LEU:HD23	2.20	0.41
1:Y:369:VAL:O	1:Y:373:GLN:HG2	2.20	0.41
1:Z:145:ARG:HA	1:Z:148:PHE:CD2	2.56	0.41
1:a:86:PHE:HB2	1:a:281:TYR:OH	2.19	0.41
1:a:232:LYS:HA	1:a:246:PHE:HB3	2.02	0.41
1:b:369:VAL:O	1:b:373:GLN:HG2	2.20	0.41
1:c:167:VAL:HG13	1:c:170:LYS:HZ2	1.85	0.41
1:d:328:GLU:HG3	1:d:332:ARG:NH2	2.33	0.41
1:e:91:PRO:HG2	1:e:109:ARG:HA	2.02	0.41
1:e:214:VAL:HB	1:e:218:ARG:NH1	2.34	0.41
1:f:49:ILE:HA	1:f:63:ILE:HG12	2.02	0.41
1:f:292:ARG:CZ	1:f:349:VAL:HG22	2.51	0.41
1:g:56:GLU:HG3	1:g:133:ARG:HG2	2.02	0.41
1:g:232:LYS:HA	1:g:246:PHE:HB3	2.02	0.41
1:k:309:LYS:HB3	1:k:309:LYS:HE3	1.82	0.41
1:l:372:HIS:NE2	1:m:393:LEU:HD22	2.35	0.41
1:m:91:PRO:HG2	1:m:109:ARG:HA	2.02	0.41
1:n:292:ARG:CZ	1:n:349:VAL:HG22	2.51	0.41
1:o:232:LYS:HA	1:o:246:PHE:HB3	2.02	0.41
1:q:218:ARG:NH1	1:q:264:ALA:HB1	2.35	0.41
1:s:49:ILE:HA	1:s:63:ILE:HG12	2.02	0.41
1:s:56:GLU:HG3	1:s:133:ARG:HG2	2.02	0.41
1:s:292:ARG:CZ	1:s:349:VAL:HG22	2.51	0.41
1:t:206:ALA:HA	1:u:230:ALA:HB1	2.02	0.41
1:u:170:LYS:HG3	1:u:171:VAL:N	2.35	0.41
1:v:145:ARG:HA	1:v:148:PHE:CD2	2.56	0.41
1:w:252:LYS:HD3	1:w:252:LYS:HA	1.80	0.41
1:y:80:GLU:HG3	1:y:81:LYS:HG3	2.01	0.41
1:y:292:ARG:CZ	1:y:349:VAL:HG22	2.51	0.41
1:1:49:ILE:HA	1:1:63:ILE:HG12	2.02	0.41
1:1:330:GLU:HA	1:1:333:GLU:HG2	2.02	0.41
1:2:91:PRO:HG2	1:2:109:ARG:HA	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:218:ARG:NH1	1:2:264:ALA:HB1	2.35	0.41
1:6:296:PHE:HA	1:6:299:HIS:ND1	2.36	0.41
1:7:56:GLU:HG3	1:7:133:ARG:HG2	2.02	0.41
1:8:145:ARG:HA	1:8:148:PHE:CD2	2.56	0.41
1:8:292:ARG:CZ	1:8:349:VAL:HG22	2.51	0.41
1:A:56:GLU:HG3	1:A:133:ARG:HG2	2.02	0.41
1:A:173:ASP:HB3	1:A:179:GLU:HB2	2.01	0.41
1:AA:296:PHE:HB2	1:AA:345:PHE:CE1	2.56	0.41
1:AB:328:GLU:HG3	1:AB:332:ARG:NH2	2.33	0.41
1:AB:395:LYS:HE2	1:AB:395:LYS:HB3	1.71	0.41
1:AC:86:PHE:HB2	1:AC:281:TYR:OH	2.19	0.41
1:AC:145:ARG:HA	1:AC:148:PHE:CD2	2.56	0.41
1:AC:296:PHE:HB2	1:AC:345:PHE:CE1	2.56	0.41
1:AD:145:ARG:HA	1:AD:148:PHE:CD2	2.56	0.41
1:AD:369:VAL:O	1:AD:373:GLN:HG2	2.20	0.41
1:AE:202:HIS:HE1	1:AF:237:CYS:HB3	1.84	0.41
1:AF:232:LYS:HA	1:AF:246:PHE:HB3	2.02	0.41
1:AG:86:PHE:HB2	1:AG:281:TYR:OH	2.19	0.41
1:AG:89:PRO:HD3	1:AG:281:TYR:CD1	2.54	0.41
1:AG:372:HIS:HA	1:AH:396:LEU:HD13	2.02	0.41
1:AH:178:LYS:HA	1:AH:178:LYS:HD3	1.76	0.41
1:AI:232:LYS:HA	1:AI:246:PHE:HB3	2.02	0.41
1:AI:369:VAL:O	1:AI:373:GLN:HG2	2.20	0.41
1:AJ:330:GLU:HA	1:AJ:333:GLU:HG2	2.02	0.41
1:AL:80:GLU:HG3	1:AL:81:LYS:HG3	2.01	0.41
1:AL:314:ASP:O	1:AL:318:LEU:HD23	2.20	0.41
1:AL:369:VAL:O	1:AL:373:GLN:HG2	2.20	0.41
1:AM:170:LYS:HG3	1:AM:171:VAL:N	2.35	0.41
1:AN:292:ARG:CZ	1:AN:349:VAL:HG22	2.51	0.41
1:AQ:218:ARG:NH1	1:AQ:264:ALA:HB1	2.35	0.41
1:AR:170:LYS:HG3	1:AR:171:VAL:N	2.35	0.41
1:AR:314:ASP:O	1:AR:318:LEU:HD23	2.20	0.41
1:B:330:GLU:HA	1:B:333:GLU:HG2	2.02	0.41
1:D:170:LYS:HG3	1:D:171:VAL:N	2.35	0.41
1:G:145:ARG:HA	1:G:148:PHE:CD2	2.55	0.41
1:J:195:TYR:O	1:J:198:GLU:HG2	2.19	0.41
1:K:91:PRO:HG2	1:K:109:ARG:HA	2.02	0.41
1:K:118:ASN:O	1:K:122:LEU:HG	2.20	0.41
1:L:395:LYS:HE2	1:L:395:LYS:HB3	1.71	0.41
1:N:145:ARG:HA	1:N:148:PHE:CD2	2.56	0.41
1:N:292:ARG:CZ	1:N:349:VAL:HG22	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:369:VAL:O	1:O:373:GLN:HG2	2.20	0.41
1:P:292:ARG:CZ	1:P:349:VAL:HG22	2.51	0.41
1:R:292:ARG:CZ	1:R:349:VAL:HG22	2.51	0.41
1:S:195:TYR:O	1:S:198:GLU:HG2	2.19	0.41
1:T:369:VAL:O	1:T:373:GLN:HG2	2.20	0.41
1:U:330:GLU:HA	1:U:333:GLU:HG2	2.02	0.41
1:X:170:LYS:HG3	1:X:171:VAL:N	2.35	0.41
1:Z:170:LYS:HG3	1:Z:171:VAL:N	2.35	0.41
1:b:170:LYS:HG3	1:b:171:VAL:N	2.35	0.41
1:i:145:ARG:HA	1:i:148:PHE:CD2	2.56	0.41
1:i:314:ASP:O	1:i:318:LEU:HD23	2.20	0.41
1:l:330:GLU:HA	1:l:333:GLU:HG2	2.02	0.41
1:m:292:ARG:CZ	1:m:349:VAL:HG22	2.51	0.41
1:m:330:GLU:HA	1:m:333:GLU:HG2	2.02	0.41
1:o:195:TYR:O	1:o:198:GLU:HG2	2.19	0.41
1:p:91:PRO:HG2	1:p:109:ARG:HA	2.02	0.41
1:q:49:ILE:HA	1:q:63:ILE:HG12	2.02	0.41
1:r:292:ARG:CZ	1:r:349:VAL:HG22	2.51	0.41
1:s:86:PHE:HB2	1:s:281:TYR:OH	2.19	0.41
1:w:118:ASN:O	1:w:122:LEU:HG	2.20	0.41
1:x:314:ASP:O	1:x:318:LEU:HD23	2.20	0.41
1:2:80:GLU:HG3	1:2:81:LYS:HG3	2.01	0.41
1:2:292:ARG:CZ	1:2:349:VAL:HG22	2.51	0.41
1:2:330:GLU:HA	1:2:333:GLU:HG2	2.02	0.41
1:3:145:ARG:HA	1:3:148:PHE:CD2	2.56	0.41
1:3:232:LYS:HA	1:3:246:PHE:HB3	2.02	0.41
1:3:296:PHE:HA	1:3:299:HIS:ND1	2.36	0.41
1:4:178:LYS:HD3	1:4:178:LYS:HA	1.76	0.41
1:4:328:GLU:HG3	1:4:332:ARG:NH2	2.33	0.41
1:5:232:LYS:HA	1:5:246:PHE:HB3	2.02	0.41
1:5:292:ARG:CZ	1:5:349:VAL:HG22	2.51	0.41
1:5:296:PHE:HB2	1:5:345:PHE:CE1	2.56	0.41
1:6:145:ARG:HA	1:6:148:PHE:CD2	2.56	0.41
1:7:218:ARG:NH1	1:7:264:ALA:HB1	2.34	0.41
1:8:232:LYS:HA	1:8:246:PHE:HB3	2.02	0.41
1:A:118:ASN:O	1:A:122:LEU:HG	2.20	0.41
1:AA:292:ARG:CZ	1:AA:349:VAL:HG22	2.51	0.41
1:AB:90:LEU:HD23	1:AB:90:LEU:HA	1.93	0.41
1:AD:170:LYS:HG3	1:AD:171:VAL:N	2.35	0.41
1:AE:369:VAL:O	1:AE:373:GLN:HG2	2.20	0.41
1:AG:296:PHE:HB2	1:AG:345:PHE:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AH:56:GLU:HG3	1:AH:133:ARG:HG2	2.02	0.41
1:AH:86:PHE:HB2	1:AH:281:TYR:OH	2.19	0.41
1:AH:314:ASP:O	1:AH:318:LEU:HD23	2.20	0.41
1:AJ:118:ASN:O	1:AJ:122:LEU:HG	2.20	0.41
1:AJ:252:LYS:HA	1:AJ:252:LYS:HD3	1.80	0.41
1:AJ:292:ARG:CZ	1:AJ:349:VAL:HG22	2.51	0.41
1:AK:252:LYS:HD3	1:AK:252:LYS:HA	1.80	0.41
1:AK:296:PHE:HB2	1:AK:345:PHE:CE1	2.56	0.41
1:AK:376:LYS:HA	1:AK:376:LYS:HD2	1.94	0.41
1:AN:170:LYS:HG3	1:AN:171:VAL:N	2.35	0.41
1:AO:292:ARG:CZ	1:AO:349:VAL:HG22	2.51	0.41
1:AO:296:PHE:HB2	1:AO:345:PHE:CE1	2.56	0.41
1:AO:314:ASP:O	1:AO:318:LEU:HD23	2.20	0.41
1:AO:330:GLU:HA	1:AO:333:GLU:HG2	2.03	0.41
1:AP:292:ARG:CZ	1:AP:349:VAL:HG22	2.51	0.41
1:AR:252:LYS:HA	1:AR:252:LYS:HD3	1.80	0.41
1:AR:296:PHE:HA	1:AR:299:HIS:ND1	2.36	0.41
1:B:91:PRO:HG2	1:B:109:ARG:HA	2.02	0.41
1:B:170:LYS:HG3	1:B:171:VAL:N	2.35	0.41
1:D:56:GLU:HG3	1:D:133:ARG:HG2	2.01	0.41
1:D:232:LYS:HA	1:D:246:PHE:HB3	2.02	0.41
1:E:372:HIS:HA	1:F:396:LEU:HD13	2.02	0.41
1:F:118:ASN:O	1:F:122:LEU:HG	2.20	0.41
1:F:292:ARG:CZ	1:F:349:VAL:HG22	2.51	0.41
1:F:330:GLU:HA	1:F:333:GLU:HG2	2.02	0.41
1:I:296:PHE:HB2	1:I:345:PHE:CE1	2.56	0.41
1:K:232:LYS:HA	1:K:246:PHE:HB3	2.02	0.41
1:L:145:ARG:HA	1:L:148:PHE:CD2	2.56	0.41
1:R:86:PHE:HB2	1:R:281:TYR:OH	2.19	0.41
1:U:296:PHE:HB2	1:U:345:PHE:CE1	2.56	0.41
1:U:369:VAL:O	1:U:373:GLN:HG2	2.20	0.41
1:V:328:GLU:HG3	1:V:332:ARG:NH2	2.33	0.41
1:W:56:GLU:HG3	1:W:133:ARG:HG2	2.02	0.41
1:W:232:LYS:HA	1:W:246:PHE:HB3	2.02	0.41
1:X:309:LYS:HB3	1:X:309:LYS:HE3	1.82	0.41
1:X:314:ASP:O	1:X:318:LEU:HD23	2.20	0.41
1:Y:252:LYS:HD3	1:Y:252:LYS:HA	1.80	0.41
1:Z:49:ILE:HA	1:Z:63:ILE:HG12	2.02	0.41
1:a:292:ARG:CZ	1:a:349:VAL:HG22	2.51	0.41
1:b:91:PRO:HG2	1:b:109:ARG:HA	2.02	0.41
1:h:178:LYS:HD3	1:h:178:LYS:HA	1.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:296:PHE:HA	1:h:299:HIS:ND1	2.36	0.41
1:h:395:LYS:HB3	1:h:395:LYS:HE2	1.71	0.41
1:j:393:LEU:HD22	1:k:372:HIS:NE2	2.35	0.41
1:k:296:PHE:HB2	1:k:345:PHE:CE1	2.56	0.41
1:l:232:LYS:HA	1:l:246:PHE:HB3	2.02	0.41
1:l:292:ARG:CZ	1:l:349:VAL:HG22	2.51	0.41
1:l:296:PHE:HB2	1:l:345:PHE:CE1	2.56	0.41
1:m:195:TYR:O	1:m:198:GLU:HG2	2.19	0.41
1:n:91:PRO:HG2	1:n:109:ARG:HA	2.02	0.41
1:o:145:ARG:HA	1:o:148:PHE:CD2	2.56	0.41
1:o:167:VAL:HG13	1:o:170:LYS:HZ2	1.86	0.41
1:p:292:ARG:CZ	1:p:349:VAL:HG22	2.51	0.41
1:p:369:VAL:O	1:p:373:GLN:HG2	2.20	0.41
1:q:369:VAL:O	1:q:373:GLN:HG2	2.20	0.41
1:r:49:ILE:HA	1:r:63:ILE:HG12	2.02	0.41
1:r:145:ARG:HA	1:r:148:PHE:CD2	2.56	0.41
1:t:202:HIS:HB3	1:u:234:LEU:HA	2.02	0.41
1:t:292:ARG:CZ	1:t:349:VAL:HG22	2.51	0.41
1:t:369:VAL:O	1:t:373:GLN:HG2	2.20	0.41
1:y:178:LYS:HA	1:y:178:LYS:HD3	1.76	0.41
1:y:296:PHE:HA	1:y:299:HIS:ND1	2.36	0.41
1:1:296:PHE:HA	1:1:299:HIS:ND1	2.36	0.41
1:2:296:PHE:HA	1:2:299:HIS:ND1	2.36	0.41
1:3:292:ARG:CZ	1:3:349:VAL:HG22	2.51	0.41
1:4:91:PRO:HG2	1:4:109:ARG:HA	2.02	0.41
1:4:292:ARG:CZ	1:4:349:VAL:HG22	2.51	0.41
1:5:296:PHE:HA	1:5:299:HIS:ND1	2.36	0.41
1:6:49:ILE:HA	1:6:63:ILE:HG12	2.02	0.41
1:6:232:LYS:HA	1:6:246:PHE:HB3	2.02	0.41
1:6:296:PHE:HB2	1:6:345:PHE:CE1	2.56	0.41
1:7:145:ARG:HA	1:7:148:PHE:CD2	2.56	0.41
1:7:296:PHE:HA	1:7:299:HIS:ND1	2.36	0.41
1:7:296:PHE:HB2	1:7:345:PHE:CE1	2.56	0.41
1:8:296:PHE:HA	1:8:299:HIS:ND1	2.36	0.41
1:8:296:PHE:HB2	1:8:345:PHE:CE1	2.56	0.41
1:8:314:ASP:O	1:8:318:LEU:HD23	2.20	0.41
1:9:252:LYS:HD3	1:9:252:LYS:HA	1.80	0.41
1:9:296:PHE:HA	1:9:299:HIS:ND1	2.36	0.41
1:9:296:PHE:HB2	1:9:345:PHE:CE1	2.56	0.41
1:A:91:PRO:HG2	1:A:109:ARG:HA	2.02	0.41
1:A:212:ARG:NH2	1:B:226:ASP:CB	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AE:314:ASP:O	1:AE:318:LEU:HD23	2.20	0.41
1:AF:314:ASP:O	1:AF:318:LEU:HD23	2.20	0.41
1:AG:145:ARG:HA	1:AG:148:PHE:CD2	2.56	0.41
1:AG:314:ASP:O	1:AG:318:LEU:HD23	2.20	0.41
1:AH:145:ARG:HA	1:AH:148:PHE:CD2	2.56	0.41
1:AH:369:VAL:O	1:AH:373:GLN:HG2	2.20	0.41
1:AL:309:LYS:HE3	1:AL:309:LYS:HB3	1.82	0.41
1:AM:214:VAL:HB	1:AM:218:ARG:NH1	2.34	0.41
1:AM:369:VAL:O	1:AM:373:GLN:HG2	2.20	0.41
1:AN:91:PRO:HG2	1:AN:109:ARG:HA	2.01	0.41
1:AN:372:HIS:HA	1:AO:396:LEU:HD13	2.02	0.41
1:AQ:170:LYS:HG3	1:AQ:171:VAL:N	2.35	0.41
1:AR:178:LYS:HA	1:AR:178:LYS:HD3	1.76	0.41
1:AS:192:LEU:O	1:AS:195:TYR:HB3	2.21	0.41
1:AS:296:PHE:HB2	1:AS:345:PHE:CE1	2.56	0.41
1:B:145:ARG:HA	1:B:148:PHE:CD2	2.55	0.41
1:D:192:LEU:O	1:D:195:TYR:HB3	2.21	0.41
1:E:90:LEU:HD23	1:E:90:LEU:HA	1.93	0.41
1:E:296:PHE:HB2	1:E:345:PHE:CE1	2.56	0.41
1:G:328:GLU:HG3	1:G:332:ARG:NH2	2.33	0.41
1:H:356:ILE:HD12	1:H:356:ILE:HA	1.98	0.41
1:J:91:PRO:HG2	1:J:109:ARG:HA	2.02	0.41
1:J:178:LYS:HD3	1:J:178:LYS:HA	1.76	0.41
1:J:328:GLU:HG3	1:J:332:ARG:NH2	2.33	0.41
1:L:118:ASN:O	1:L:122:LEU:HG	2.20	0.41
1:L:296:PHE:HB2	1:L:345:PHE:CE1	2.56	0.41
1:O:314:ASP:O	1:O:318:LEU:HD23	2.20	0.41
1:O:393:LEU:HD22	1:P:372:HIS:NE2	2.35	0.41
1:P:296:PHE:HA	1:P:299:HIS:ND1	2.36	0.41
1:P:395:LYS:HB3	1:P:395:LYS:HE2	1.71	0.41
1:T:170:LYS:HG3	1:T:171:VAL:N	2.35	0.41
1:V:91:PRO:HG2	1:V:109:ARG:HA	2.02	0.41
1:Z:292:ARG:CZ	1:Z:349:VAL:HG22	2.51	0.41
1:Z:296:PHE:HB2	1:Z:345:PHE:CE1	2.56	0.41
1:c:292:ARG:CZ	1:c:349:VAL:HG22	2.51	0.41
1:c:314:ASP:O	1:c:318:LEU:HD23	2.20	0.41
1:e:314:ASP:O	1:e:318:LEU:HD23	2.20	0.41
1:f:170:LYS:HG3	1:f:171:VAL:N	2.35	0.41
1:g:145:ARG:HA	1:g:148:PHE:CD2	2.56	0.41
1:h:86:PHE:HB2	1:h:281:TYR:OH	2.19	0.41
1:h:145:ARG:HA	1:h:148:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:292:ARG:CZ	1:j:349:VAL:HG22	2.51	0.41
1:j:330:GLU:HA	1:j:333:GLU:HG2	2.02	0.41
1:l:195:TYR:O	1:l:198:GLU:HG2	2.19	0.41
1:m:49:ILE:HA	1:m:63:ILE:HG12	2.02	0.41
1:n:296:PHE:HA	1:n:299:HIS:ND1	2.36	0.41
1:n:314:ASP:O	1:n:318:LEU:HD23	2.20	0.41
1:p:195:TYR:O	1:p:198:GLU:HG2	2.19	0.41
1:q:232:LYS:HA	1:q:246:PHE:HB3	2.02	0.41
1:q:296:PHE:HB2	1:q:345:PHE:CE1	2.56	0.41
1:r:91:PRO:HG2	1:r:109:ARG:HA	2.02	0.41
1:r:328:GLU:HG3	1:r:332:ARG:NH2	2.33	0.41
1:t:330:GLU:HA	1:t:333:GLU:HG2	2.02	0.41
1:u:292:ARG:CZ	1:u:349:VAL:HG22	2.51	0.41
1:u:314:ASP:O	1:u:318:LEU:HD23	2.20	0.41
1:w:292:ARG:CZ	1:w:349:VAL:HG22	2.51	0.41
1:w:296:PHE:HB2	1:w:345:PHE:CE1	2.56	0.41
1:x:145:ARG:HA	1:x:148:PHE:CD2	2.56	0.41
1:x:296:PHE:HB2	1:x:345:PHE:CE1	2.56	0.41
1:0:56:GLU:HG3	1:0:133:ARG:HG2	2.01	0.41
1:3:49:ILE:HA	1:3:63:ILE:HG12	2.02	0.41
1:3:195:TYR:O	1:3:198:GLU:HG2	2.19	0.41
1:3:296:PHE:HB2	1:3:345:PHE:CE1	2.56	0.41
1:5:88:PRO:HB3	1:5:119:ARG:HD2	2.03	0.41
1:5:145:ARG:HA	1:5:148:PHE:CD2	2.56	0.41
1:6:330:GLU:HA	1:6:333:GLU:HG2	2.02	0.41
1:7:170:LYS:HG3	1:7:171:VAL:N	2.35	0.41
1:9:192:LEU:O	1:9:195:TYR:HB3	2.21	0.41
1:9:314:ASP:O	1:9:318:LEU:HD23	2.20	0.41
1:AA:192:LEU:O	1:AA:195:TYR:HB3	2.21	0.41
1:AA:376:LYS:HA	1:AA:376:LYS:HD2	1.94	0.41
1:AB:91:PRO:HG2	1:AB:109:ARG:HA	2.02	0.41
1:AC:192:LEU:O	1:AC:195:TYR:HB3	2.21	0.41
1:AD:218:ARG:NH1	1:AD:264:ALA:HB1	2.35	0.41
1:AD:314:ASP:O	1:AD:318:LEU:HD23	2.20	0.41
1:AE:49:ILE:HA	1:AE:63:ILE:HG12	2.02	0.41
1:AE:192:LEU:O	1:AE:195:TYR:HB3	2.21	0.41
1:AG:330:GLU:HA	1:AG:333:GLU:HG2	2.02	0.41
1:AH:296:PHE:HA	1:AH:299:HIS:ND1	2.36	0.41
1:AI:296:PHE:HB2	1:AI:345:PHE:CE1	2.56	0.41
1:AL:91:PRO:HG2	1:AL:109:ARG:HA	2.02	0.41
1:AL:167:VAL:HG13	1:AL:170:LYS:HZ2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AM:296:PHE:HB2	1:AM:345:PHE:CE1	2.56	0.41
1:AN:369:VAL:O	1:AN:373:GLN:HG2	2.20	0.41
1:AQ:214:VAL:HB	1:AQ:218:ARG:NH1	2.34	0.41
1:AQ:369:VAL:O	1:AQ:373:GLN:HG2	2.20	0.41
1:AS:90:LEU:HD23	1:AS:90:LEU:HA	1.93	0.41
1:AS:330:GLU:HA	1:AS:333:GLU:HG2	2.02	0.41
1:B:192:LEU:O	1:B:195:TYR:HB3	2.21	0.41
1:B:296:PHE:HB2	1:B:345:PHE:CE1	2.56	0.41
1:B:314:ASP:O	1:B:318:LEU:HD23	2.20	0.41
1:C:170:LYS:HG3	1:C:171:VAL:N	2.35	0.41
1:E:330:GLU:HA	1:E:333:GLU:HG2	2.02	0.41
1:F:91:PRO:HG2	1:F:109:ARG:HA	2.02	0.41
1:H:369:VAL:O	1:H:373:GLN:HG2	2.20	0.41
1:I:232:LYS:HA	1:I:246:PHE:HB3	2.02	0.41
1:L:91:PRO:HG2	1:L:109:ARG:HA	2.01	0.41
1:M:90:LEU:HD23	1:M:90:LEU:HA	1.93	0.41
1:M:314:ASP:O	1:M:318:LEU:HD23	2.20	0.41
1:N:296:PHE:HA	1:N:299:HIS:ND1	2.36	0.41
1:O:145:ARG:HA	1:O:148:PHE:CD2	2.55	0.41
1:O:296:PHE:HA	1:O:299:HIS:ND1	2.36	0.41
1:P:170:LYS:HG3	1:P:171:VAL:N	2.35	0.41
1:Q:292:ARG:CZ	1:Q:349:VAL:HG22	2.51	0.41
1:Q:395:LYS:HB3	1:Q:395:LYS:HE2	1.71	0.41
1:R:91:PRO:HG2	1:R:109:ARG:HA	2.02	0.41
1:R:296:PHE:HB2	1:R:345:PHE:CE1	2.56	0.41
1:R:314:ASP:O	1:R:318:LEU:HD23	2.20	0.41
1:S:232:LYS:HA	1:S:246:PHE:HB3	2.02	0.41
1:V:202:HIS:HB3	1:W:234:LEU:HA	2.02	0.41
1:W:296:PHE:HB2	1:W:345:PHE:CE1	2.56	0.41
1:Y:232:LYS:HA	1:Y:246:PHE:HB3	2.02	0.41
1:a:192:LEU:O	1:a:195:TYR:HB3	2.21	0.41
1:b:292:ARG:CZ	1:b:349:VAL:HG22	2.51	0.41
1:e:145:ARG:HA	1:e:148:PHE:CD2	2.56	0.41
1:e:192:LEU:O	1:e:195:TYR:HB3	2.21	0.41
1:f:296:PHE:HA	1:f:299:HIS:ND1	2.36	0.41
1:k:252:LYS:HD3	1:k:252:LYS:HA	1.80	0.41
1:l:192:LEU:O	1:l:195:TYR:HB3	2.21	0.41
1:m:170:LYS:HG3	1:m:171:VAL:N	2.35	0.41
1:n:393:LEU:HD22	1:o:372:HIS:CE1	2.55	0.41
1:o:296:PHE:HA	1:o:299:HIS:ND1	2.36	0.41
1:p:192:LEU:O	1:p:195:TYR:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:296:PHE:HB2	1:p:345:PHE:CE1	2.56	0.41
1:q:86:PHE:HB2	1:q:281:TYR:OH	2.19	0.41
1:t:192:LEU:O	1:t:195:TYR:HB3	2.21	0.41
1:v:296:PHE:HA	1:v:299:HIS:ND1	2.36	0.41
1:v:314:ASP:O	1:v:318:LEU:HD23	2.20	0.41
1:y:309:LYS:HE3	1:y:309:LYS:HB3	1.82	0.41
1:y:330:GLU:HA	1:y:333:GLU:HG2	2.03	0.41
1:z:232:LYS:HA	1:z:246:PHE:HB3	2.02	0.41
1:0:296:PHE:HB2	1:0:345:PHE:CE1	2.56	0.41
1:0:330:GLU:HA	1:0:333:GLU:HG2	2.02	0.41
1:1:314:ASP:O	1:1:318:LEU:HD23	2.20	0.41
1:2:88:PRO:HB3	1:2:119:ARG:HD2	2.03	0.41
1:3:170:LYS:HG3	1:3:171:VAL:N	2.35	0.41
1:3:330:GLU:HA	1:3:333:GLU:HG2	2.02	0.41
1:4:232:LYS:HA	1:4:246:PHE:HB3	2.02	0.41
1:5:192:LEU:O	1:5:195:TYR:HB3	2.21	0.41
1:7:192:LEU:O	1:7:195:TYR:HB3	2.21	0.41
1:7:314:ASP:O	1:7:318:LEU:HD23	2.20	0.41
1:8:330:GLU:HA	1:8:333:GLU:HG2	2.02	0.41
1:A:145:ARG:HA	1:A:148:PHE:CD2	2.56	0.41
1:A:192:LEU:O	1:A:195:TYR:HB3	2.21	0.41
1:A:328:GLU:HG3	1:A:332:ARG:NH2	2.33	0.41
1:AA:145:ARG:HA	1:AA:148:PHE:CD2	2.56	0.41
1:AA:330:GLU:HA	1:AA:333:GLU:HG2	2.02	0.41
1:AB:369:VAL:O	1:AB:373:GLN:HG2	2.20	0.41
1:AD:296:PHE:HA	1:AD:299:HIS:ND1	2.36	0.41
1:AG:192:LEU:O	1:AG:195:TYR:HB3	2.21	0.41
1:AH:356:ILE:HD12	1:AH:356:ILE:HA	1.98	0.41
1:AI:88:PRO:HB3	1:AI:119:ARG:HD2	2.03	0.41
1:AI:192:LEU:O	1:AI:195:TYR:HB3	2.21	0.41
1:AI:296:PHE:HA	1:AI:299:HIS:ND1	2.36	0.41
1:AJ:296:PHE:HB2	1:AJ:345:PHE:CE1	2.56	0.41
1:AK:192:LEU:O	1:AK:195:TYR:HB3	2.21	0.41
1:AK:292:ARG:CZ	1:AK:349:VAL:HG22	2.51	0.41
1:AK:296:PHE:HA	1:AK:299:HIS:ND1	2.36	0.41
1:AL:292:ARG:CZ	1:AL:349:VAL:HG22	2.51	0.41
1:AL:296:PHE:HB2	1:AL:345:PHE:CE1	2.56	0.41
1:AL:330:GLU:HA	1:AL:333:GLU:HG2	2.02	0.41
1:AM:49:ILE:HA	1:AM:63:ILE:HG12	2.02	0.41
1:AM:292:ARG:CZ	1:AM:349:VAL:HG22	2.51	0.41
1:AN:296:PHE:HB2	1:AN:345:PHE:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AO:192:LEU:O	1:AO:195:TYR:HB3	2.21	0.41
1:AP:56:GLU:HG3	1:AP:133:ARG:HG2	2.02	0.41
1:AP:86:PHE:HB2	1:AP:281:TYR:OH	2.19	0.41
1:AQ:91:PRO:HG2	1:AQ:109:ARG:HA	2.02	0.41
1:AQ:192:LEU:O	1:AQ:195:TYR:HB3	2.21	0.41
1:AQ:314:ASP:O	1:AQ:318:LEU:HD23	2.20	0.41
1:AR:192:LEU:O	1:AR:195:TYR:HB3	2.21	0.41
1:B:56:GLU:HG3	1:B:133:ARG:HG2	2.02	0.41
1:D:314:ASP:O	1:D:318:LEU:HD23	2.20	0.41
1:E:88:PRO:HB3	1:E:119:ARG:HD2	2.03	0.41
1:F:170:LYS:HG3	1:F:171:VAL:N	2.35	0.41
1:F:296:PHE:HB2	1:F:345:PHE:CE1	2.56	0.41
1:F:369:VAL:O	1:F:373:GLN:HG2	2.20	0.41
1:G:314:ASP:O	1:G:318:LEU:HD23	2.20	0.41
1:H:49:ILE:HA	1:H:63:ILE:HG12	2.02	0.41
1:H:292:ARG:CZ	1:H:349:VAL:HG22	2.51	0.41
1:H:296:PHE:HA	1:H:299:HIS:ND1	2.36	0.41
1:H:330:GLU:HA	1:H:333:GLU:HG2	2.02	0.41
1:I:49:ILE:HA	1:I:63:ILE:HG12	2.02	0.41
1:J:296:PHE:HA	1:J:299:HIS:ND1	2.36	0.41
1:K:296:PHE:HB2	1:K:345:PHE:CE1	2.56	0.41
1:L:292:ARG:CZ	1:L:349:VAL:HG22	2.51	0.41
1:L:309:LYS:HB3	1:L:309:LYS:HE3	1.82	0.41
1:L:369:VAL:O	1:L:373:GLN:HG2	2.20	0.41
1:M:49:ILE:HA	1:M:63:ILE:HG12	2.02	0.41
1:M:88:PRO:HB3	1:M:119:ARG:HD2	2.03	0.41
1:M:145:ARG:HA	1:M:148:PHE:CD2	2.56	0.41
1:M:192:LEU:O	1:M:195:TYR:HB3	2.21	0.41
1:M:296:PHE:HA	1:M:299:HIS:ND1	2.36	0.41
1:M:369:VAL:O	1:M:373:GLN:HG2	2.20	0.41
1:N:91:PRO:HG2	1:N:109:ARG:HA	2.02	0.41
1:O:49:ILE:HA	1:O:63:ILE:HG12	2.02	0.41
1:O:88:PRO:HB3	1:O:119:ARG:HD2	2.03	0.41
1:P:145:ARG:HA	1:P:148:PHE:CD2	2.56	0.41
1:R:145:ARG:HA	1:R:148:PHE:CD2	2.56	0.41
1:T:296:PHE:HA	1:T:299:HIS:ND1	2.36	0.41
1:T:314:ASP:O	1:T:318:LEU:HD23	2.20	0.41
1:U:145:ARG:HA	1:U:148:PHE:CD2	2.56	0.41
1:V:206:ALA:HA	1:W:230:ALA:HB1	2.02	0.41
1:V:314:ASP:O	1:V:318:LEU:HD23	2.20	0.41
1:W:49:ILE:HA	1:W:63:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:292:ARG:CZ	1:W:349:VAL:HG22	2.51	0.41
1:W:296:PHE:HA	1:W:299:HIS:ND1	2.36	0.41
1:X:292:ARG:CZ	1:X:349:VAL:HG22	2.51	0.41
1:Y:292:ARG:CZ	1:Y:349:VAL:HG22	2.51	0.41
1:Z:86:PHE:HB2	1:Z:281:TYR:OH	2.19	0.41
1:Z:296:PHE:HA	1:Z:299:HIS:ND1	2.36	0.41
1:Z:369:VAL:O	1:Z:373:GLN:HG2	2.20	0.41
1:a:56:GLU:HG3	1:a:133:ARG:HG2	2.01	0.41
1:a:178:LYS:HA	1:a:178:LYS:HD3	1.76	0.41
1:a:376:LYS:HA	1:a:376:LYS:HD2	1.94	0.41
1:b:145:ARG:HA	1:b:148:PHE:CD2	2.56	0.41
1:b:296:PHE:HB2	1:b:345:PHE:CE1	2.56	0.41
1:c:296:PHE:HB2	1:c:345:PHE:CE1	2.56	0.41
1:c:330:GLU:HA	1:c:333:GLU:HG2	2.02	0.41
1:d:91:PRO:HG2	1:d:109:ARG:HA	2.02	0.41
1:d:192:LEU:O	1:d:195:TYR:HB3	2.21	0.41
1:d:296:PHE:HB2	1:d:345:PHE:CE1	2.56	0.41
1:d:369:VAL:O	1:d:373:GLN:HG2	2.20	0.41
1:e:49:ILE:HA	1:e:63:ILE:HG12	2.02	0.41
1:e:232:LYS:HA	1:e:246:PHE:HB3	2.02	0.41
1:e:292:ARG:CZ	1:e:349:VAL:HG22	2.51	0.41
1:f:145:ARG:HA	1:f:148:PHE:CD2	2.56	0.41
1:g:49:ILE:HA	1:g:63:ILE:HG12	2.02	0.41
1:g:192:LEU:O	1:g:195:TYR:HB3	2.21	0.41
1:g:376:LYS:HA	1:g:376:LYS:HD2	1.94	0.41
1:i:49:ILE:HA	1:i:63:ILE:HG12	2.02	0.41
1:i:296:PHE:HA	1:i:299:HIS:ND1	2.36	0.41
1:i:309:LYS:HE3	1:i:309:LYS:HB3	1.82	0.41
1:j:296:PHE:HB2	1:j:345:PHE:CE1	2.56	0.41
1:j:369:VAL:O	1:j:373:GLN:HG2	2.20	0.41
1:k:292:ARG:CZ	1:k:349:VAL:HG22	2.51	0.41
1:m:192:LEU:O	1:m:195:TYR:HB3	2.21	0.41
1:m:296:PHE:HB2	1:m:345:PHE:CE1	2.56	0.41
1:n:170:LYS:HG3	1:n:171:VAL:N	2.35	0.41
1:n:218:ARG:NH1	1:n:264:ALA:HB1	2.35	0.41
1:o:49:ILE:HA	1:o:63:ILE:HG12	2.02	0.41
1:o:296:PHE:HB2	1:o:345:PHE:CE1	2.56	0.41
1:p:170:LYS:HG3	1:p:171:VAL:N	2.35	0.41
1:p:232:LYS:HA	1:p:246:PHE:HB3	2.02	0.41
1:s:296:PHE:HB2	1:s:345:PHE:CE1	2.56	0.41
1:s:309:LYS:HE3	1:s:309:LYS:HB3	1.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:369:VAL:O	1:s:373:GLN:HG2	2.20	0.41
1:t:296:PHE:HA	1:t:299:HIS:ND1	2.36	0.41
1:t:314:ASP:O	1:t:318:LEU:HD23	2.20	0.41
1:u:192:LEU:O	1:u:195:TYR:HB3	2.21	0.41
1:u:296:PHE:HA	1:u:299:HIS:ND1	2.36	0.41
1:u:330:GLU:HA	1:u:333:GLU:HG2	2.02	0.41
1:v:49:ILE:HA	1:v:63:ILE:HG12	2.02	0.41
1:v:192:LEU:O	1:v:195:TYR:HB3	2.21	0.41
1:v:292:ARG:CZ	1:v:349:VAL:HG22	2.51	0.41
1:w:192:LEU:O	1:w:195:TYR:HB3	2.21	0.41
1:w:232:LYS:HA	1:w:246:PHE:HB3	2.02	0.41
1:x:292:ARG:CZ	1:x:349:VAL:HG22	2.51	0.41
1:y:192:LEU:O	1:y:195:TYR:HB3	2.21	0.41
1:y:314:ASP:O	1:y:318:LEU:HD23	2.20	0.41
1:0:192:LEU:O	1:0:195:TYR:HB3	2.21	0.41
1:1:192:LEU:O	1:1:195:TYR:HB3	2.21	0.41
1:1:237:CYS:O	1:z:195:TYR:CE2	2.74	0.41
1:2:170:LYS:HG3	1:2:171:VAL:N	2.35	0.41
1:2:296:PHE:HB2	1:2:345:PHE:CE1	2.56	0.41
1:2:311:ILE:HD11	1:AO:307:LYS:HB3	1.99	0.41
1:2:320:ARG:NH2	1:AO:183:GLU:CB	2.80	0.41
1:4:88:PRO:HB3	1:4:119:ARG:HD2	2.03	0.41
1:6:314:ASP:O	1:6:318:LEU:HD23	2.20	0.41
1:8:49:ILE:HA	1:8:63:ILE:HG12	2.02	0.41
1:A:292:ARG:CZ	1:A:349:VAL:HG22	2.51	0.41
1:AA:195:TYR:CE2	1:AB:237:CYS:O	2.74	0.41
1:AB:88:PRO:HB3	1:AB:119:ARG:HD2	2.03	0.41
1:AD:178:LYS:HA	1:AD:178:LYS:HD3	1.76	0.41
1:AD:232:LYS:HA	1:AD:246:PHE:HB3	2.02	0.41
1:AF:167:VAL:HG13	1:AF:170:LYS:HZ2	1.86	0.41
1:AF:296:PHE:HA	1:AF:299:HIS:ND1	2.36	0.41
1:AF:309:LYS:HB3	1:AF:309:LYS:HE3	1.82	0.41
1:AH:232:LYS:HA	1:AH:246:PHE:HB3	2.02	0.41
1:AK:74:LEU:HD22	1:AK:135:PHE:CD2	2.57	0.41
1:AK:145:ARG:HA	1:AK:148:PHE:CD2	2.56	0.41
1:AK:330:GLU:HA	1:AK:333:GLU:HG2	2.02	0.41
1:AM:56:GLU:HG3	1:AM:133:ARG:HG2	2.02	0.41
1:AP:192:LEU:O	1:AP:195:TYR:HB3	2.21	0.41
1:AR:49:ILE:HA	1:AR:63:ILE:HG12	2.02	0.41
1:AR:296:PHE:HB2	1:AR:345:PHE:CE1	2.56	0.41
1:AS:232:LYS:HA	1:AS:246:PHE:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AS:296:PHE:HA	1:AS:299:HIS:ND1	2.36	0.41
1:C:91:PRO:HG2	1:C:109:ARG:HA	2.02	0.41
1:C:192:LEU:O	1:C:195:TYR:HB3	2.21	0.41
1:D:330:GLU:HA	1:D:333:GLU:HG2	2.02	0.41
1:E:292:ARG:CZ	1:E:349:VAL:HG22	2.51	0.41
1:G:91:PRO:HG2	1:G:109:ARG:HA	2.02	0.41
1:G:296:PHE:HA	1:G:299:HIS:ND1	2.36	0.41
1:H:296:PHE:HB2	1:H:345:PHE:CE1	2.56	0.41
1:H:376:LYS:HA	1:H:376:LYS:HD2	1.94	0.41
1:J:74:LEU:HD22	1:J:135:PHE:CD2	2.56	0.41
1:L:296:PHE:HA	1:L:299:HIS:ND1	2.36	0.41
1:L:330:GLU:HA	1:L:333:GLU:HG2	2.02	0.41
1:M:296:PHE:HB2	1:M:345:PHE:CE1	2.56	0.41
1:N:88:PRO:HB3	1:N:119:ARG:HD2	2.03	0.41
1:N:170:LYS:HG3	1:N:171:VAL:N	2.35	0.41
1:O:192:LEU:O	1:O:195:TYR:HB3	2.21	0.41
1:O:296:PHE:HB2	1:O:345:PHE:CE1	2.56	0.41
1:O:376:LYS:HA	1:O:376:LYS:HD2	1.94	0.41
1:Q:296:PHE:HB2	1:Q:345:PHE:CE1	2.56	0.41
1:R:170:LYS:HG3	1:R:171:VAL:N	2.35	0.41
1:R:192:LEU:O	1:R:195:TYR:HB3	2.21	0.41
1:S:49:ILE:HA	1:S:63:ILE:HG12	2.02	0.41
1:U:395:LYS:HE2	1:U:395:LYS:HB3	1.71	0.41
1:V:145:ARG:HA	1:V:148:PHE:CD2	2.56	0.41
1:W:145:ARG:HA	1:W:148:PHE:CD2	2.56	0.41
1:W:369:VAL:O	1:W:373:GLN:HG2	2.20	0.41
1:Y:145:ARG:HA	1:Y:148:PHE:CD2	2.56	0.41
1:a:49:ILE:HA	1:a:63:ILE:HG12	2.02	0.41
1:a:74:LEU:HD22	1:a:135:PHE:CD2	2.57	0.41
1:e:170:LYS:HG3	1:e:171:VAL:N	2.35	0.41
1:f:86:PHE:HB2	1:f:281:TYR:OH	2.19	0.41
1:f:296:PHE:HB2	1:f:345:PHE:CE1	2.56	0.41
1:g:292:ARG:CZ	1:g:349:VAL:HG22	2.51	0.41
1:g:309:LYS:HE3	1:g:309:LYS:HB3	1.82	0.41
1:g:314:ASP:O	1:g:318:LEU:HD23	2.20	0.41
1:h:170:LYS:HG3	1:h:171:VAL:N	2.35	0.41
1:i:192:LEU:O	1:i:195:TYR:HB3	2.21	0.41
1:i:376:LYS:HA	1:i:376:LYS:HD2	1.94	0.41
1:j:91:PRO:HG2	1:j:109:ARG:HA	2.02	0.41
1:k:314:ASP:O	1:k:318:LEU:HD23	2.20	0.41
1:k:330:GLU:HA	1:k:333:GLU:HG2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:232:LYS:HA	1:m:246:PHE:HB3	2.02	0.41
1:o:192:LEU:O	1:o:195:TYR:HB3	2.21	0.41
1:p:330:GLU:HA	1:p:333:GLU:HG2	2.02	0.41
1:q:192:LEU:O	1:q:195:TYR:HB3	2.21	0.41
1:u:252:LYS:HD3	1:u:252:LYS:HA	1.80	0.41
1:x:296:PHE:HA	1:x:299:HIS:ND1	2.36	0.41
1:z:296:PHE:HB2	1:z:345:PHE:CE1	2.56	0.41
1:0:145:ARG:HA	1:0:148:PHE:CD2	2.56	0.40
1:1:339:GLU:HB3	1:1:343:ARG:NH1	2.37	0.40
1:3:88:PRO:HB3	1:3:119:ARG:HD2	2.03	0.40
1:3:192:LEU:O	1:3:195:TYR:HB3	2.21	0.40
1:4:170:LYS:HG3	1:4:171:VAL:N	2.35	0.40
1:4:296:PHE:HA	1:4:299:HIS:ND1	2.36	0.40
1:4:296:PHE:HB2	1:4:345:PHE:CE1	2.56	0.40
1:4:314:ASP:O	1:4:318:LEU:HD23	2.20	0.40
1:7:292:ARG:CZ	1:7:349:VAL:HG22	2.51	0.40
1:8:74:LEU:HD22	1:8:135:PHE:CD2	2.57	0.40
1:8:252:LYS:HD3	1:8:252:LYS:HA	1.80	0.40
1:8:395:LYS:HE2	1:8:395:LYS:HB3	1.71	0.40
1:9:292:ARG:CZ	1:9:349:VAL:HG22	2.51	0.40
1:A:74:LEU:HD22	1:A:135:PHE:CD2	2.57	0.40
1:AA:74:LEU:HD22	1:AA:135:PHE:CD2	2.57	0.40
1:AB:27:SER:OG	1:AB:51:LYS:HB2	2.22	0.40
1:AB:232:LYS:HA	1:AB:246:PHE:HB3	2.02	0.40
1:AC:74:LEU:HD22	1:AC:135:PHE:CD2	2.57	0.40
1:AD:252:LYS:HA	1:AD:252:LYS:HD3	1.80	0.40
1:AF:88:PRO:HB3	1:AF:119:ARG:HD2	2.03	0.40
1:AH:74:LEU:HD22	1:AH:135:PHE:CD2	2.57	0.40
1:AI:74:LEU:HD22	1:AI:135:PHE:CD2	2.56	0.40
1:AJ:91:PRO:HG2	1:AJ:109:ARG:HA	2.02	0.40
1:AJ:296:PHE:HA	1:AJ:299:HIS:ND1	2.36	0.40
1:AK:88:PRO:HB3	1:AK:119:ARG:HD2	2.03	0.40
1:AN:74:LEU:HD22	1:AN:135:PHE:CD2	2.57	0.40
1:AO:145:ARG:HA	1:AO:148:PHE:CD2	2.56	0.40
1:AQ:320:ARG:HD2	1:p:185:THR:CG2	2.42	0.40
1:AR:232:LYS:HA	1:AR:246:PHE:HB3	2.02	0.40
1:B:232:LYS:HA	1:B:246:PHE:HB3	2.02	0.40
1:G:192:LEU:O	1:G:195:TYR:HB3	2.21	0.40
1:J:88:PRO:HB3	1:J:119:ARG:HD2	2.03	0.40
1:J:292:ARG:CZ	1:J:349:VAL:HG22	2.51	0.40
1:J:330:GLU:HA	1:J:333:GLU:HG2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:292:ARG:CZ	1:K:349:VAL:HG22	2.51	0.40
1:M:356:ILE:HD12	1:M:356:ILE:HA	1.98	0.40
1:O:292:ARG:CZ	1:O:349:VAL:HG22	2.51	0.40
1:O:395:LYS:HB3	1:O:395:LYS:HE2	1.71	0.40
1:S:27:SER:OG	1:S:51:LYS:HB2	2.22	0.40
1:T:339:GLU:HB3	1:T:343:ARG:NH1	2.37	0.40
1:V:170:LYS:HG3	1:V:171:VAL:N	2.35	0.40
1:X:27:SER:OG	1:X:51:LYS:HB2	2.22	0.40
1:Y:296:PHE:HA	1:Y:299:HIS:ND1	2.36	0.40
1:Y:296:PHE:HB2	1:Y:345:PHE:CE1	2.56	0.40
1:a:145:ARG:HA	1:a:148:PHE:CD2	2.56	0.40
1:a:314:ASP:O	1:a:318:LEU:HD23	2.20	0.40
1:f:339:GLU:HB3	1:f:343:ARG:NH1	2.37	0.40
1:h:296:PHE:HB2	1:h:345:PHE:CE1	2.56	0.40
1:j:88:PRO:HB3	1:j:119:ARG:HD2	2.03	0.40
1:l:90:LEU:HD23	1:l:90:LEU:HA	1.93	0.40
1:m:145:ARG:HA	1:m:148:PHE:CD2	2.56	0.40
1:n:178:LYS:HA	1:n:178:LYS:HD3	1.76	0.40
1:p:145:ARG:HA	1:p:148:PHE:CD2	2.56	0.40
1:r:74:LEU:HD22	1:r:135:PHE:CD2	2.57	0.40
1:r:330:GLU:HA	1:r:333:GLU:HG2	2.02	0.40
1:s:192:LEU:O	1:s:195:TYR:HB3	2.21	0.40
1:t:49:ILE:HA	1:t:63:ILE:HG12	2.02	0.40
1:t:74:LEU:HD22	1:t:135:PHE:CD2	2.57	0.40
1:u:296:PHE:HB2	1:u:345:PHE:CE1	2.56	0.40
1:x:74:LEU:HD22	1:x:135:PHE:CD2	2.57	0.40
1:x:376:LYS:HA	1:x:376:LYS:HD2	1.94	0.40
1:y:296:PHE:HB2	1:y:345:PHE:CE1	2.56	0.40
1:6:74:LEU:HD22	1:6:135:PHE:CD2	2.57	0.40
1:6:206:ALA:HA	1:7:230:ALA:HB1	2.02	0.40
1:7:74:LEU:HD22	1:7:135:PHE:CD2	2.57	0.40
1:A:232:LYS:HA	1:A:246:PHE:HB3	2.02	0.40
1:AB:292:ARG:CZ	1:AB:349:VAL:HG22	2.51	0.40
1:AB:296:PHE:HB2	1:AB:345:PHE:CE1	2.56	0.40
1:AB:314:ASP:O	1:AB:318:LEU:HD23	2.20	0.40
1:AB:330:GLU:HA	1:AB:333:GLU:HG2	2.02	0.40
1:AD:27:SER:OG	1:AD:51:LYS:HB2	2.22	0.40
1:AD:74:LEU:HD22	1:AD:135:PHE:CD2	2.57	0.40
1:AD:292:ARG:CZ	1:AD:349:VAL:HG22	2.51	0.40
1:AE:74:LEU:HD22	1:AE:135:PHE:CD2	2.57	0.40
1:AF:27:SER:OG	1:AF:51:LYS:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AF:192:LEU:O	1:AF:195:TYR:HB3	2.21	0.40
1:AF:292:ARG:CZ	1:AF:349:VAL:HG22	2.51	0.40
1:AG:27:SER:OG	1:AG:51:LYS:HB2	2.22	0.40
1:AG:74:LEU:HD22	1:AG:135:PHE:CD2	2.57	0.40
1:AH:296:PHE:HB2	1:AH:345:PHE:CE1	2.56	0.40
1:AI:376:LYS:HA	1:AI:376:LYS:HD2	1.94	0.40
1:AJ:88:PRO:HB3	1:AJ:119:ARG:HD2	2.03	0.40
1:AL:27:SER:OG	1:AL:51:LYS:HB2	2.22	0.40
1:AM:88:PRO:HB3	1:AM:119:ARG:HD2	2.03	0.40
1:AM:296:PHE:HA	1:AM:299:HIS:ND1	2.36	0.40
1:AN:296:PHE:HA	1:AN:299:HIS:ND1	2.36	0.40
1:AP:361:GLU:O	1:AP:365:GLU:OE1	2.40	0.40
1:AS:49:ILE:HA	1:AS:63:ILE:HG12	2.02	0.40
1:AS:361:GLU:O	1:AS:365:GLU:OE1	2.40	0.40
1:C:74:LEU:HD22	1:C:135:PHE:CD2	2.56	0.40
1:C:296:PHE:HB2	1:C:345:PHE:CE1	2.56	0.40
1:D:49:ILE:HA	1:D:63:ILE:HG12	2.02	0.40
1:D:292:ARG:CZ	1:D:349:VAL:HG22	2.51	0.40
1:E:361:GLU:O	1:E:365:GLU:OE1	2.40	0.40
1:F:296:PHE:HA	1:F:299:HIS:ND1	2.36	0.40
1:H:74:LEU:HD22	1:H:135:PHE:CD2	2.57	0.40
1:H:361:GLU:O	1:H:365:GLU:OE1	2.40	0.40
1:I:292:ARG:CZ	1:I:349:VAL:HG22	2.51	0.40
1:J:170:LYS:HG3	1:J:171:VAL:N	2.35	0.40
1:J:339:GLU:HB3	1:J:343:ARG:NH1	2.37	0.40
1:L:192:LEU:O	1:L:195:TYR:HB3	2.21	0.40
1:O:361:GLU:O	1:O:365:GLU:OE1	2.40	0.40
1:P:88:PRO:HB3	1:P:119:ARG:HD2	2.03	0.40
1:Q:86:PHE:HB2	1:Q:281:TYR:OH	2.19	0.40
1:Q:192:LEU:O	1:Q:195:TYR:HB3	2.21	0.40
1:Q:195:TYR:CE2	1:R:237:CYS:O	2.74	0.40
1:Q:330:GLU:HA	1:Q:333:GLU:HG2	2.02	0.40
1:T:88:PRO:HB3	1:T:119:ARG:HD2	2.03	0.40
1:U:49:ILE:HA	1:U:63:ILE:HG12	2.02	0.40
1:U:296:PHE:HA	1:U:299:HIS:ND1	2.36	0.40
1:V:27:SER:OG	1:V:51:LYS:HB2	2.22	0.40
1:V:192:LEU:O	1:V:195:TYR:HB3	2.21	0.40
1:V:292:ARG:CZ	1:V:349:VAL:HG22	2.51	0.40
1:b:27:SER:OG	1:b:51:LYS:HB2	2.22	0.40
1:c:145:ARG:HA	1:c:148:PHE:CD2	2.56	0.40
1:c:296:PHE:HA	1:c:299:HIS:ND1	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:361:GLU:O	1:c:365:GLU:OE1	2.40	0.40
1:d:232:LYS:HA	1:d:246:PHE:HB3	2.02	0.40
1:d:292:ARG:CZ	1:d:349:VAL:HG22	2.51	0.40
1:g:296:PHE:HA	1:g:299:HIS:ND1	2.36	0.40
1:h:339:GLU:HB3	1:h:343:ARG:NH1	2.37	0.40
1:i:292:ARG:CZ	1:i:349:VAL:HG22	2.51	0.40
1:i:296:PHE:HB2	1:i:345:PHE:CE1	2.56	0.40
1:j:27:SER:OG	1:j:51:LYS:HB2	2.22	0.40
1:j:74:LEU:HD22	1:j:135:PHE:CD2	2.57	0.40
1:l:369:VAL:O	1:l:373:GLN:HG2	2.20	0.40
1:n:296:PHE:HB2	1:n:345:PHE:CE1	2.56	0.40
1:o:88:PRO:HB3	1:o:119:ARG:HD2	2.03	0.40
1:o:292:ARG:CZ	1:o:349:VAL:HG22	2.51	0.40
1:p:252:LYS:HA	1:p:252:LYS:HD3	1.80	0.40
1:q:339:GLU:HB3	1:q:343:ARG:NH1	2.37	0.40
1:r:192:LEU:O	1:r:195:TYR:HB3	2.21	0.40
1:r:296:PHE:HA	1:r:299:HIS:ND1	2.36	0.40
1:s:361:GLU:O	1:s:365:GLU:OE1	2.40	0.40
1:u:27:SER:OG	1:u:51:LYS:HB2	2.22	0.40
1:u:232:LYS:HA	1:u:246:PHE:HB3	2.02	0.40
1:v:252:LYS:HD3	1:v:252:LYS:HA	1.80	0.40
1:v:330:GLU:HA	1:v:333:GLU:HG2	2.02	0.40
1:v:339:GLU:HB3	1:v:343:ARG:NH1	2.37	0.40
1:w:88:PRO:HB3	1:w:119:ARG:HD2	2.03	0.40
1:w:330:GLU:HA	1:w:333:GLU:HG2	2.02	0.40
1:y:252:LYS:HA	1:y:252:LYS:HD3	1.80	0.40
1:z:74:LEU:HD22	1:z:135:PHE:CD2	2.57	0.40
1:2:314:ASP:O	1:2:318:LEU:HD23	2.20	0.40
1:2:339:GLU:HB3	1:2:343:ARG:NH1	2.37	0.40
1:3:361:GLU:O	1:3:365:GLU:OE1	2.40	0.40
1:5:330:GLU:HA	1:5:333:GLU:HG2	2.02	0.40
1:5:356:ILE:HD12	1:5:356:ILE:HA	1.98	0.40
1:6:192:LEU:O	1:6:195:TYR:HB3	2.21	0.40
1:6:361:GLU:O	1:6:365:GLU:OE1	2.40	0.40
1:7:232:LYS:HA	1:7:246:PHE:HB3	2.02	0.40
1:9:361:GLU:O	1:9:365:GLU:OE1	2.40	0.40
1:AA:296:PHE:HA	1:AA:299:HIS:ND1	2.36	0.40
1:AA:361:GLU:O	1:AA:365:GLU:OE1	2.40	0.40
1:AB:192:LEU:O	1:AB:195:TYR:HB3	2.21	0.40
1:AB:339:GLU:HB3	1:AB:343:ARG:NH1	2.37	0.40
1:AC:27:SER:OG	1:AC:51:LYS:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AD:361:GLU:O	1:AD:365:GLU:OE1	2.40	0.40
1:AE:296:PHE:HA	1:AE:299:HIS:ND1	2.36	0.40
1:AE:361:GLU:O	1:AE:365:GLU:OE1	2.40	0.40
1:AF:296:PHE:HB2	1:AF:345:PHE:CE1	2.56	0.40
1:AG:232:LYS:HA	1:AG:246:PHE:HB3	2.02	0.40
1:AG:296:PHE:HA	1:AG:299:HIS:ND1	2.36	0.40
1:AH:27:SER:OG	1:AH:51:LYS:HB2	2.22	0.40
1:AH:292:ARG:CZ	1:AH:349:VAL:HG22	2.51	0.40
1:AI:49:ILE:HA	1:AI:63:ILE:HG12	2.02	0.40
1:AI:330:GLU:HA	1:AI:333:GLU:HG2	2.02	0.40
1:AJ:27:SER:OG	1:AJ:51:LYS:HB2	2.22	0.40
1:AJ:74:LEU:HD22	1:AJ:135:PHE:CD2	2.56	0.40
1:AM:376:LYS:HA	1:AM:376:LYS:HD2	1.93	0.40
1:AN:330:GLU:HA	1:AN:333:GLU:HG2	2.02	0.40
1:AP:296:PHE:HB2	1:AP:345:PHE:CE1	2.56	0.40
1:AR:339:GLU:HB3	1:AR:343:ARG:NH1	2.37	0.40
1:AR:361:GLU:O	1:AR:365:GLU:OE1	2.40	0.40
1:AS:27:SER:OG	1:AS:51:LYS:HB2	2.22	0.40
1:B:74:LEU:HD22	1:B:135:PHE:CD2	2.57	0.40
1:C:145:ARG:HA	1:C:148:PHE:CD2	2.56	0.40
1:C:232:LYS:HA	1:C:246:PHE:HB3	2.02	0.40
1:D:145:ARG:HA	1:D:148:PHE:CD2	2.56	0.40
1:E:192:LEU:O	1:E:195:TYR:HB3	2.21	0.40
1:F:192:LEU:O	1:F:195:TYR:HB3	2.21	0.40
1:G:27:SER:OG	1:G:51:LYS:HB2	2.22	0.40
1:H:88:PRO:HB3	1:H:119:ARG:HD2	2.03	0.40
1:H:145:ARG:HA	1:H:148:PHE:CD2	2.56	0.40
1:H:192:LEU:O	1:H:195:TYR:HB3	2.21	0.40
1:I:145:ARG:HA	1:I:148:PHE:CD2	2.56	0.40
1:J:192:LEU:O	1:J:195:TYR:HB3	2.21	0.40
1:J:232:LYS:HA	1:J:246:PHE:HB3	2.02	0.40
1:L:232:LYS:HA	1:L:246:PHE:HB3	2.02	0.40
1:N:27:SER:OG	1:N:51:LYS:HB2	2.22	0.40
1:N:296:PHE:HB2	1:N:345:PHE:CE1	2.56	0.40
1:P:296:PHE:HB2	1:P:345:PHE:CE1	2.56	0.40
1:S:74:LEU:HD22	1:S:135:PHE:CD2	2.56	0.40
1:S:192:LEU:O	1:S:195:TYR:HB3	2.21	0.40
1:S:296:PHE:HB2	1:S:345:PHE:CE1	2.56	0.40
1:T:192:LEU:O	1:T:195:TYR:HB3	2.21	0.40
1:T:296:PHE:HB2	1:T:345:PHE:CE1	2.56	0.40
1:U:232:LYS:HA	1:U:246:PHE:HB3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:361:GLU:O	1:U:365:GLU:OE1	2.40	0.40
1:V:88:PRO:HB3	1:V:119:ARG:HD2	2.03	0.40
1:V:296:PHE:HA	1:V:299:HIS:ND1	2.36	0.40
1:V:339:GLU:HB3	1:V:343:ARG:NH1	2.37	0.40
1:W:74:LEU:HD22	1:W:135:PHE:CD2	2.57	0.40
1:W:330:GLU:HA	1:W:333:GLU:HG2	2.02	0.40
1:X:223:SER:HA	1:Y:212:ARG:HH22	1.86	0.40
1:X:232:LYS:HA	1:X:246:PHE:HB3	2.02	0.40
1:X:296:PHE:HB2	1:X:345:PHE:CE1	2.56	0.40
1:Y:49:ILE:HA	1:Y:63:ILE:HG12	2.02	0.40
1:Y:361:GLU:O	1:Y:365:GLU:OE1	2.40	0.40
1:Z:339:GLU:HB3	1:Z:343:ARG:NH1	2.37	0.40
1:a:27:SER:OG	1:a:51:LYS:HB2	2.22	0.40
1:a:296:PHE:HB2	1:a:345:PHE:CE1	2.56	0.40
1:a:361:GLU:O	1:a:365:GLU:OE1	2.40	0.40
1:d:170:LYS:HG3	1:d:171:VAL:N	2.35	0.40
1:g:74:LEU:HD22	1:g:135:PHE:CD2	2.57	0.40
1:h:74:LEU:HD22	1:h:135:PHE:CD2	2.57	0.40
1:k:192:LEU:O	1:k:195:TYR:HB3	2.21	0.40
1:l:296:PHE:HA	1:l:299:HIS:ND1	2.36	0.40
1:l:339:GLU:HB3	1:l:343:ARG:NH1	2.37	0.40
1:l:361:GLU:O	1:l:365:GLU:OE1	2.40	0.40
1:m:339:GLU:HB3	1:m:343:ARG:NH1	2.37	0.40
1:n:74:LEU:HD22	1:n:135:PHE:CD2	2.57	0.40
1:n:339:GLU:HB3	1:n:343:ARG:NH1	2.37	0.40
1:p:339:GLU:HB3	1:p:343:ARG:NH1	2.37	0.40
1:q:74:LEU:HD22	1:q:135:PHE:CD2	2.57	0.40
1:q:309:LYS:HE3	1:q:309:LYS:HB3	1.82	0.40
1:r:88:PRO:HB3	1:r:119:ARG:HD2	2.03	0.40
1:s:74:LEU:HD22	1:s:135:PHE:CD2	2.57	0.40
1:s:356:ILE:HD12	1:s:356:ILE:HA	1.98	0.40
1:t:361:GLU:O	1:t:365:GLU:OE1	2.40	0.40
1:u:361:GLU:O	1:u:365:GLU:OE1	2.40	0.40
1:v:74:LEU:HD22	1:v:135:PHE:CD2	2.57	0.40
1:w:27:SER:OG	1:w:51:LYS:HB2	2.22	0.40
1:w:314:ASP:O	1:w:318:LEU:HD23	2.20	0.40
1:x:49:ILE:HA	1:x:63:ILE:HG12	2.02	0.40
1:x:330:GLU:HA	1:x:333:GLU:HG2	2.02	0.40
1:y:339:GLU:HB3	1:y:343:ARG:NH1	2.37	0.40
1:z:27:SER:OG	1:z:51:LYS:HB2	2.22	0.40
1:z:292:ARG:CZ	1:z:349:VAL:HG22	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:296:PHE:HA	1:z:299:HIS:ND1	2.36	0.40
1:z:361:GLU:O	1:z:365:GLU:OE1	2.40	0.40
1:0:74:LEU:HD22	1:0:135:PHE:CD2	2.57	0.40
1:0:208:LYS:HE3	1:0:208:LYS:HB2	1.87	0.40
1:2:27:SER:OG	1:2:51:LYS:HB2	2.22	0.40
1:2:74:LEU:HD22	1:2:135:PHE:CD2	2.57	0.40
1:4:27:SER:OG	1:4:51:LYS:HB2	2.22	0.40
1:7:88:PRO:HB3	1:7:119:ARG:HD2	2.03	0.40
1:8:27:SER:OG	1:8:51:LYS:HB2	2.22	0.40
1:9:232:LYS:HA	1:9:246:PHE:HB3	2.02	0.40
1:9:330:GLU:HA	1:9:333:GLU:HG2	2.03	0.40
1:9:339:GLU:HB3	1:9:343:ARG:NH1	2.37	0.40
1:A:296:PHE:HB2	1:A:345:PHE:CE1	2.56	0.40
1:AC:314:ASP:O	1:AC:318:LEU:HD23	2.20	0.40
1:AC:361:GLU:O	1:AC:365:GLU:OE1	2.40	0.40
1:AD:192:LEU:O	1:AD:195:TYR:HB3	2.21	0.40
1:AD:296:PHE:HB2	1:AD:345:PHE:CE1	2.56	0.40
1:AF:361:GLU:O	1:AF:365:GLU:OE1	2.40	0.40
1:AH:361:GLU:O	1:AH:365:GLU:OE1	2.40	0.40
1:AI:145:ARG:HA	1:AI:148:PHE:CD2	2.56	0.40
1:AJ:170:LYS:HG3	1:AJ:171:VAL:N	2.35	0.40
1:AJ:192:LEU:O	1:AJ:195:TYR:HB3	2.21	0.40
1:AL:74:LEU:HD22	1:AL:135:PHE:CD2	2.57	0.40
1:AL:88:PRO:HB3	1:AL:119:ARG:HD2	2.03	0.40
1:AL:192:LEU:O	1:AL:195:TYR:HB3	2.21	0.40
1:AL:232:LYS:HA	1:AL:246:PHE:HB3	2.02	0.40
1:AM:74:LEU:HD22	1:AM:135:PHE:CD2	2.57	0.40
1:AM:145:ARG:HA	1:AM:148:PHE:CD2	2.56	0.40
1:AM:192:LEU:O	1:AM:195:TYR:HB3	2.21	0.40
1:AN:27:SER:OG	1:AN:51:LYS:HB2	2.22	0.40
1:AO:88:PRO:HB3	1:AO:119:ARG:HD2	2.03	0.40
1:AP:88:PRO:HB3	1:AP:119:ARG:HD2	2.03	0.40
1:AP:252:LYS:HD3	1:AP:252:LYS:HA	1.80	0.40
1:AP:330:GLU:HA	1:AP:333:GLU:HG2	2.02	0.40
1:AQ:27:SER:OG	1:AQ:51:LYS:HB2	2.22	0.40
1:AQ:88:PRO:HB3	1:AQ:119:ARG:HD2	2.03	0.40
1:AQ:296:PHE:HB2	1:AQ:345:PHE:CE1	2.56	0.40
1:AR:74:LEU:HD22	1:AR:135:PHE:CD2	2.57	0.40
1:B:292:ARG:CZ	1:B:349:VAL:HG22	2.51	0.40
1:C:292:ARG:CZ	1:C:349:VAL:HG22	2.51	0.40
1:D:88:PRO:HB3	1:D:119:ARG:HD2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:296:PHE:HB2	1:D:345:PHE:CE1	2.56	0.40
1:G:88:PRO:HB3	1:G:119:ARG:HD2	2.03	0.40
1:G:292:ARG:CZ	1:G:349:VAL:HG22	2.51	0.40
1:H:339:GLU:HB3	1:H:343:ARG:NH1	2.37	0.40
1:I:74:LEU:HD22	1:I:135:PHE:CD2	2.57	0.40
1:I:88:PRO:HB3	1:I:119:ARG:HD2	2.03	0.40
1:I:178:LYS:HD3	1:I:178:LYS:HA	1.76	0.40
1:I:339:GLU:HB3	1:I:343:ARG:NH1	2.37	0.40
1:I:361:GLU:O	1:I:365:GLU:OE1	2.40	0.40
1:K:49:ILE:HA	1:K:63:ILE:HG12	2.02	0.40
1:K:145:ARG:HA	1:K:148:PHE:CD2	2.56	0.40
1:K:361:GLU:O	1:K:365:GLU:OE1	2.40	0.40
1:L:339:GLU:HB3	1:L:343:ARG:NH1	2.37	0.40
1:M:74:LEU:HD22	1:M:135:PHE:CD2	2.57	0.40
1:M:361:GLU:O	1:M:365:GLU:OE1	2.40	0.40
1:M:376:LYS:HA	1:M:376:LYS:HD2	1.94	0.40
1:N:74:LEU:HD22	1:N:135:PHE:CD2	2.57	0.40
1:Q:88:PRO:HB3	1:Q:119:ARG:HD2	2.03	0.40
1:Q:145:ARG:HA	1:Q:148:PHE:CD2	2.56	0.40
1:R:369:VAL:O	1:R:373:GLN:HG2	2.20	0.40
1:S:361:GLU:O	1:S:365:GLU:OE1	2.40	0.40
1:U:27:SER:OG	1:U:51:LYS:HB2	2.22	0.40
1:U:170:LYS:HG3	1:U:171:VAL:N	2.35	0.40
1:W:339:GLU:HB3	1:W:343:ARG:NH1	2.37	0.40
1:W:361:GLU:O	1:W:365:GLU:OE1	2.40	0.40
1:X:145:ARG:HA	1:X:148:PHE:CD2	2.56	0.40
1:Y:74:LEU:HD22	1:Y:135:PHE:CD2	2.57	0.40
1:Y:192:LEU:O	1:Y:195:TYR:HB3	2.21	0.40
1:Y:376:LYS:HA	1:Y:376:LYS:HD2	1.94	0.40
1:a:330:GLU:HA	1:a:333:GLU:HG2	2.02	0.40
1:b:88:PRO:HB3	1:b:119:ARG:HD2	2.03	0.40
1:b:232:LYS:HA	1:b:246:PHE:HB3	2.02	0.40
1:c:192:LEU:O	1:c:195:TYR:HB3	2.21	0.40
1:c:252:LYS:HD3	1:c:252:LYS:HA	1.80	0.40
1:e:330:GLU:HA	1:e:333:GLU:HG2	2.02	0.40
1:g:27:SER:OG	1:g:51:LYS:HB2	2.22	0.40
1:g:361:GLU:O	1:g:365:GLU:OE1	2.40	0.40
1:h:361:GLU:O	1:h:365:GLU:OE1	2.40	0.40
1:k:361:GLU:O	1:k:365:GLU:OE1	2.40	0.40
1:k:376:LYS:HA	1:k:376:LYS:HD2	1.94	0.40
1:l:170:LYS:HG3	1:l:171:VAL:N	2.35	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:356:ILE:HD12	1:l:356:ILE:HA	1.98	0.40
1:m:309:LYS:HE3	1:m:309:LYS:HB3	1.82	0.40
1:m:361:GLU:O	1:m:365:GLU:OE1	2.40	0.40
1:n:88:PRO:HB3	1:n:119:ARG:HD2	2.03	0.40
1:o:330:GLU:HA	1:o:333:GLU:HG2	2.02	0.40
1:r:339:GLU:HB3	1:r:343:ARG:NH1	2.37	0.40
1:t:232:LYS:HA	1:t:246:PHE:HB3	2.02	0.40
1:t:296:PHE:HB2	1:t:345:PHE:CE1	2.56	0.40
1:t:339:GLU:HB3	1:t:343:ARG:NH1	2.37	0.40
1:v:178:LYS:HA	1:v:178:LYS:HD3	1.76	0.40
1:v:296:PHE:HB2	1:v:345:PHE:CE1	2.56	0.40
1:w:361:GLU:O	1:w:365:GLU:OE1	2.40	0.40
1:z:49:ILE:HA	1:z:63:ILE:HG12	2.02	0.40
1:z:192:LEU:O	1:z:195:TYR:HB3	2.21	0.40
1:1:213:LEU:CD2	1:z:223:SER:HB2	2.48	0.40
1:1:296:PHE:HB2	1:1:345:PHE:CE1	2.56	0.40
1:1:361:GLU:O	1:1:365:GLU:OE1	2.40	0.40
1:2:192:LEU:O	1:2:195:TYR:HB3	2.21	0.40
1:2:232:LYS:HA	1:2:246:PHE:HB3	2.02	0.40
1:4:192:LEU:O	1:4:195:TYR:HB3	2.21	0.40
1:4:330:GLU:HA	1:4:333:GLU:HG2	2.02	0.40
1:5:49:ILE:HA	1:5:63:ILE:HG12	2.02	0.40
1:6:339:GLU:HB3	1:6:343:ARG:NH1	2.37	0.40
1:6:376:LYS:HA	1:6:376:LYS:HD2	1.94	0.40
1:AA:206:ALA:HA	1:AB:230:ALA:HB1	2.04	0.40
1:AA:223:SER:HB2	1:AB:213:LEU:CD2	2.48	0.40
1:AC:296:PHE:HA	1:AC:299:HIS:ND1	2.36	0.40
1:AE:27:SER:OG	1:AE:51:LYS:HB2	2.22	0.40
1:AE:296:PHE:HB2	1:AE:345:PHE:CE1	2.56	0.40
1:AE:339:GLU:HB3	1:AE:343:ARG:NH1	2.37	0.40
1:AF:330:GLU:HA	1:AF:333:GLU:HG2	2.02	0.40
1:AG:226:ASP:HB2	1:AH:212:ARG:NH2	2.37	0.40
1:AG:361:GLU:O	1:AG:365:GLU:OE1	2.40	0.40
1:AH:339:GLU:HB3	1:AH:343:ARG:NH1	2.37	0.40
1:AI:226:ASP:HB2	1:AJ:212:ARG:NH2	2.37	0.40
1:AI:292:ARG:CZ	1:AI:349:VAL:HG22	2.51	0.40
1:AK:361:GLU:O	1:AK:365:GLU:OE1	2.40	0.40
1:AL:296:PHE:HA	1:AL:299:HIS:ND1	2.36	0.40
1:AL:339:GLU:HB3	1:AL:343:ARG:NH1	2.37	0.40
1:AM:339:GLU:HB3	1:AM:343:ARG:NH1	2.37	0.40
1:AM:361:GLU:O	1:AM:365:GLU:OE1	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AN:88:PRO:HB3	1:AN:119:ARG:HD2	2.03	0.40
1:AN:232:LYS:HA	1:AN:246:PHE:HB3	2.02	0.40
1:AP:145:ARG:HA	1:AP:148:PHE:CD2	2.56	0.40
1:AP:376:LYS:HA	1:AP:376:LYS:HD2	1.94	0.40
1:AQ:145:ARG:HA	1:AQ:148:PHE:CD2	2.56	0.40
1:AR:292:ARG:CZ	1:AR:349:VAL:HG22	2.51	0.40
1:C:372:HIS:HB2	1:D:400:TYR:CE2	2.55	0.40
1:D:74:LEU:HD22	1:D:135:PHE:CD2	2.56	0.40
1:D:361:GLU:O	1:D:365:GLU:OE1	2.40	0.40
1:E:49:ILE:HA	1:E:63:ILE:HG12	2.02	0.40
1:E:74:LEU:HD22	1:E:135:PHE:CD2	2.57	0.40
1:F:74:LEU:HD22	1:F:135:PHE:CD2	2.57	0.40
1:G:296:PHE:HB2	1:G:345:PHE:CE1	2.56	0.40
1:G:339:GLU:HB3	1:G:343:ARG:NH1	2.37	0.40
1:H:56:GLU:HG3	1:H:133:ARG:HG2	2.02	0.40
1:J:167:VAL:HG13	1:J:170:LYS:HZ2	1.87	0.40
1:K:74:LEU:HD22	1:K:135:PHE:CD2	2.57	0.40
1:M:292:ARG:CZ	1:M:349:VAL:HG22	2.51	0.40
1:P:339:GLU:HB3	1:P:343:ARG:NH1	2.37	0.40
1:Q:90:LEU:HD23	1:Q:90:LEU:HA	1.93	0.40
1:Q:361:GLU:O	1:Q:365:GLU:OE1	2.40	0.40
1:R:88:PRO:HB3	1:R:119:ARG:HD2	2.03	0.40
1:R:296:PHE:HA	1:R:299:HIS:ND1	2.36	0.40
1:S:292:ARG:CZ	1:S:349:VAL:HG22	2.51	0.40
1:T:232:LYS:HA	1:T:246:PHE:HB3	2.02	0.40
1:U:74:LEU:HD22	1:U:135:PHE:CD2	2.57	0.40
1:W:192:LEU:O	1:W:195:TYR:HB3	2.21	0.40
1:W:356:ILE:HD12	1:W:356:ILE:HA	1.98	0.40
1:X:90:LEU:HD23	1:X:90:LEU:HA	1.93	0.40
1:X:192:LEU:O	1:X:195:TYR:HB3	2.21	0.40
1:X:361:GLU:O	1:X:365:GLU:OE1	2.40	0.40
1:Y:330:GLU:HA	1:Y:333:GLU:HG2	2.02	0.40
1:b:361:GLU:O	1:b:365:GLU:OE1	2.40	0.40
1:c:49:ILE:HA	1:c:63:ILE:HG12	2.02	0.40
1:d:296:PHE:HA	1:d:299:HIS:ND1	2.36	0.40
1:e:361:GLU:O	1:e:365:GLU:OE1	2.40	0.40
1:f:74:LEU:HD22	1:f:135:PHE:CD2	2.57	0.40
1:g:296:PHE:HB2	1:g:345:PHE:CE1	2.56	0.40
1:i:27:SER:OG	1:i:51:LYS:HB2	2.22	0.40
1:i:88:PRO:HB3	1:i:119:ARG:HD2	2.03	0.40
1:k:145:ARG:HA	1:k:148:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:296:PHE:HA	1:k:299:HIS:ND1	2.36	0.40
1:s:178:LYS:HD3	1:s:178:LYS:HA	1.76	0.40
1:s:339:GLU:HB3	1:s:343:ARG:NH1	2.37	0.40
1:t:27:SER:OG	1:t:51:LYS:HB2	2.22	0.40
1:v:27:SER:OG	1:v:51:LYS:HB2	2.22	0.40
1:v:361:GLU:O	1:v:365:GLU:OE1	2.40	0.40
1:w:296:PHE:HA	1:w:299:HIS:ND1	2.36	0.40
1:x:27:SER:OG	1:x:51:LYS:HB2	2.22	0.40
1:x:361:GLU:O	1:x:365:GLU:OE1	2.40	0.40
1:y:90:LEU:HD23	1:y:90:LEU:HA	1.93	0.40
1:y:361:GLU:O	1:y:365:GLU:OE1	2.40	0.40
1:z:88:PRO:HB3	1:z:119:ARG:HD2	2.03	0.40
1:z:330:GLU:HA	1:z:333:GLU:HG2	2.02	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	0	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	1	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	2	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	3	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	4	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	5	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	6	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	7	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	8	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	9	377/402 (94%)	369 (98%)	8 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AA	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AB	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AC	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AD	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AE	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AF	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AG	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AH	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AI	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AJ	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AK	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AL	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AM	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AN	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AO	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AP	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AQ	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AR	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	AS	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	B	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	C	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	D	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	E	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	F	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	G	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	H	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	I	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	J	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	K	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	L	377/402 (94%)	369 (98%)	8 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	M	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	N	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	O	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	P	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	Q	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	R	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	S	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	T	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	U	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	V	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	W	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	X	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	Y	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	Z	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	a	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	b	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	c	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	d	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	e	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	f	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	g	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	h	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	i	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	j	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	k	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	l	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	m	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	n	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	o	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	p	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	q	377/402 (94%)	369 (98%)	8 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	r	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	s	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	t	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	u	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	v	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	w	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	x	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	y	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
1	z	377/402 (94%)	369 (98%)	8 (2%)	0	100	100
All	All	30537/32562 (94%)	29889 (98%)	648 (2%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	0	335/357 (94%)	335 (100%)	0	100	100
1	1	335/357 (94%)	335 (100%)	0	100	100
1	2	335/357 (94%)	335 (100%)	0	100	100
1	3	335/357 (94%)	335 (100%)	0	100	100
1	4	335/357 (94%)	335 (100%)	0	100	100
1	5	335/357 (94%)	335 (100%)	0	100	100
1	6	335/357 (94%)	335 (100%)	0	100	100
1	7	335/357 (94%)	335 (100%)	0	100	100
1	8	335/357 (94%)	335 (100%)	0	100	100
1	9	335/357 (94%)	335 (100%)	0	100	100
1	A	335/357 (94%)	335 (100%)	0	100	100
1	AA	335/357 (94%)	335 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	AB	335/357 (94%)	335 (100%)	0	100	100
1	AC	335/357 (94%)	335 (100%)	0	100	100
1	AD	335/357 (94%)	335 (100%)	0	100	100
1	AE	335/357 (94%)	335 (100%)	0	100	100
1	AF	335/357 (94%)	335 (100%)	0	100	100
1	AG	335/357 (94%)	335 (100%)	0	100	100
1	AH	335/357 (94%)	335 (100%)	0	100	100
1	AI	335/357 (94%)	335 (100%)	0	100	100
1	AJ	335/357 (94%)	335 (100%)	0	100	100
1	AK	335/357 (94%)	335 (100%)	0	100	100
1	AL	335/357 (94%)	335 (100%)	0	100	100
1	AM	335/357 (94%)	335 (100%)	0	100	100
1	AN	335/357 (94%)	335 (100%)	0	100	100
1	AO	335/357 (94%)	335 (100%)	0	100	100
1	AP	335/357 (94%)	335 (100%)	0	100	100
1	AQ	335/357 (94%)	335 (100%)	0	100	100
1	AR	335/357 (94%)	335 (100%)	0	100	100
1	AS	335/357 (94%)	335 (100%)	0	100	100
1	B	335/357 (94%)	335 (100%)	0	100	100
1	C	335/357 (94%)	335 (100%)	0	100	100
1	D	335/357 (94%)	335 (100%)	0	100	100
1	E	335/357 (94%)	335 (100%)	0	100	100
1	F	335/357 (94%)	335 (100%)	0	100	100
1	G	335/357 (94%)	335 (100%)	0	100	100
1	H	335/357 (94%)	335 (100%)	0	100	100
1	I	335/357 (94%)	335 (100%)	0	100	100
1	J	335/357 (94%)	335 (100%)	0	100	100
1	K	335/357 (94%)	335 (100%)	0	100	100
1	L	335/357 (94%)	335 (100%)	0	100	100
1	M	335/357 (94%)	335 (100%)	0	100	100
1	N	335/357 (94%)	335 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	O	335/357 (94%)	335 (100%)	0	100	100
1	P	335/357 (94%)	335 (100%)	0	100	100
1	Q	335/357 (94%)	335 (100%)	0	100	100
1	R	335/357 (94%)	335 (100%)	0	100	100
1	S	335/357 (94%)	335 (100%)	0	100	100
1	T	335/357 (94%)	335 (100%)	0	100	100
1	U	335/357 (94%)	335 (100%)	0	100	100
1	V	335/357 (94%)	335 (100%)	0	100	100
1	W	335/357 (94%)	335 (100%)	0	100	100
1	X	335/357 (94%)	335 (100%)	0	100	100
1	Y	335/357 (94%)	335 (100%)	0	100	100
1	Z	335/357 (94%)	335 (100%)	0	100	100
1	a	335/357 (94%)	335 (100%)	0	100	100
1	b	335/357 (94%)	335 (100%)	0	100	100
1	c	335/357 (94%)	335 (100%)	0	100	100
1	d	335/357 (94%)	335 (100%)	0	100	100
1	e	335/357 (94%)	335 (100%)	0	100	100
1	f	335/357 (94%)	335 (100%)	0	100	100
1	g	335/357 (94%)	335 (100%)	0	100	100
1	h	335/357 (94%)	335 (100%)	0	100	100
1	i	335/357 (94%)	335 (100%)	0	100	100
1	j	335/357 (94%)	335 (100%)	0	100	100
1	k	335/357 (94%)	335 (100%)	0	100	100
1	l	335/357 (94%)	335 (100%)	0	100	100
1	m	335/357 (94%)	335 (100%)	0	100	100
1	n	335/357 (94%)	335 (100%)	0	100	100
1	o	335/357 (94%)	335 (100%)	0	100	100
1	p	335/357 (94%)	335 (100%)	0	100	100
1	q	335/357 (94%)	335 (100%)	0	100	100
1	r	335/357 (94%)	335 (100%)	0	100	100
1	s	335/357 (94%)	335 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	t	335/357 (94%)	335 (100%)	0	100	100
1	u	335/357 (94%)	335 (100%)	0	100	100
1	v	335/357 (94%)	335 (100%)	0	100	100
1	w	335/357 (94%)	335 (100%)	0	100	100
1	x	335/357 (94%)	335 (100%)	0	100	100
1	y	335/357 (94%)	335 (100%)	0	100	100
1	z	335/357 (94%)	335 (100%)	0	100	100
All	All	27135/28917 (94%)	27135 (100%)	0	100	100

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

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (109) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	162	GLN
1	2	162	GLN
1	3	162	GLN
1	4	162	GLN
1	4	209	HIS
1	5	162	GLN
1	6	162	GLN
1	6	209	HIS
1	7	162	GLN
1	7	362	GLN
1	8	162	GLN
1	9	162	GLN
1	9	362	GLN
1	A	162	GLN
1	A	209	HIS
1	AA	162	GLN
1	AA	209	HIS
1	AA	362	GLN
1	AB	162	GLN
1	AC	162	GLN
1	AD	162	GLN
1	AD	362	GLN
1	AE	162	GLN
1	AE	209	HIS
1	AF	162	GLN

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Mol	Chain	Res	Type
1	AF	362	GLN
1	AG	162	GLN
1	AH	162	GLN
1	AI	162	GLN
1	AJ	162	GLN
1	AK	162	GLN
1	AL	162	GLN
1	AM	162	GLN
1	AN	162	GLN
1	AN	362	GLN
1	AO	162	GLN
1	AO	362	GLN
1	AP	162	GLN
1	AQ	162	GLN
1	AS	162	GLN
1	B	162	GLN
1	C	162	GLN
1	D	162	GLN
1	E	162	GLN
1	E	362	GLN
1	F	162	GLN
1	G	162	GLN
1	G	209	HIS
1	H	162	GLN
1	H	362	GLN
1	I	162	GLN
1	J	162	GLN
1	J	362	GLN
1	K	162	GLN
1	K	209	HIS
1	L	162	GLN
1	M	162	GLN
1	M	209	HIS
1	N	162	GLN
1	O	162	GLN
1	P	162	GLN
1	Q	162	GLN
1	Q	209	HIS
1	R	162	GLN
1	S	162	GLN
1	U	162	GLN
1	V	162	GLN

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Mol	Chain	Res	Type
1	V	209	HIS
1	W	162	GLN
1	W	362	GLN
1	X	162	GLN
1	Y	162	GLN
1	Z	162	GLN
1	a	162	GLN
1	a	362	GLN
1	b	162	GLN
1	b	362	GLN
1	c	162	GLN
1	d	162	GLN
1	e	162	GLN
1	g	162	GLN
1	g	362	GLN
1	h	162	GLN
1	i	162	GLN
1	j	162	GLN
1	j	362	GLN
1	k	162	GLN
1	k	362	GLN
1	l	162	GLN
1	m	162	GLN
1	n	162	GLN
1	n	209	HIS
1	o	162	GLN
1	p	162	GLN
1	q	162	GLN
1	r	162	GLN
1	r	209	HIS
1	r	362	GLN
1	s	162	GLN
1	t	162	GLN
1	t	209	HIS
1	u	162	GLN
1	w	162	GLN
1	x	162	GLN
1	y	127	GLN
1	y	162	GLN
1	y	362	GLN
1	z	162	GLN
1	z	209	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.