Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 04:01 AM JST

PDB ID	:	23AT / pdb_000023at
EMDB ID	:	EMD-68806
Title	:	Structure of Arabidopsis SNX1 (Class ll, 6-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	:	8.70 Å(reported)

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

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

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

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

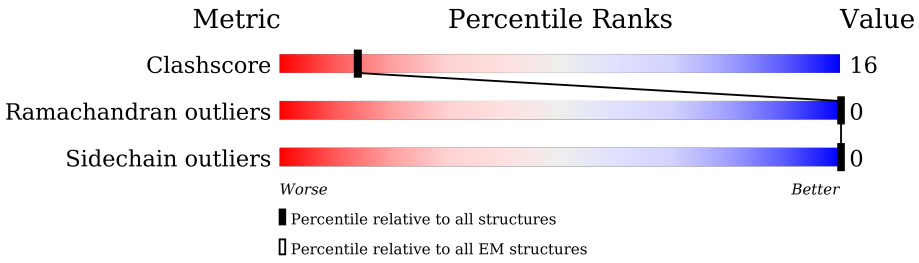
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.48.1

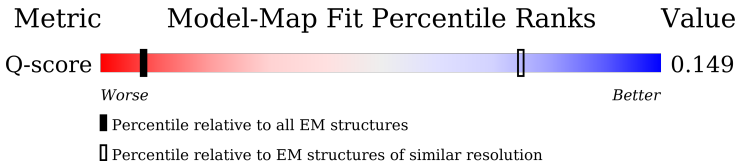
1 Overall quality at a glance (i)

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

The reported resolution of this entry is 8.70 Å.

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





Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	282 (8.20 - 9.20)

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

Mol	Chain	Length	Quality of chain
1	0	402	61% 33% 6%
1	1	402	61% 33% 6%
1	2	402	61% 33% 6%
1	3	402	60% 34% 6%

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Mol	Chain	Length	Quality of chain
1	4	402	61% 33% 6%
1	5	402	61% 34% 6%
1	6	402	59% 35% 6%
1	7	402	62% 32% 6%
1	8	402	60% 34% 6%
1	9	402	63% 31% 6%
1	A	402	61% 34% 6%
1	AA	402	59% 35% 6%
1	AB	402	61% 33% 6%
1	B	402	60% 35% 6%
1	C	402	60% 34% 6%
1	D	402	62% 32% 6%
1	E	402	59% 35% 6%
1	F	402	61% 33% 6%
1	G	402	61% 34% 6%
1	H	402	61% 33% 6%
1	I	402	60% 34% 6%
1	J	402	5% 60% 34% 6%
1	K	402	62% 32% 6%
1	L	402	62% 32% 6%
1	M	402	61% 33% 6%
1	N	402	61% 34% 6%
1	O	402	61% 34% 6%
1	P	402	61% 33% 6%
1	Q	402	60% 34% 6%

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Mol	Chain	Length	Quality of chain
1	R	402	60% 35% 6%
1	S	402	62% 32% 6%
1	T	402	61% 33% 6%
1	U	402	60% 34% 6%
1	V	402	59% 35% 6%
1	W	402	60% 34% 6%
1	X	402	58% 36% 6%
1	Y	402	62% 33% 6%
1	Z	402	5% 62% 33% 6%
1	a	402	61% 33% 6%
1	b	402	60% 34% 6%
1	c	402	61% 34% 6%
1	d	402	60% 34% 6%
1	e	402	60% 34% 6%
1	f	402	60% 34% 6%
1	g	402	60% 34% 6%
1	h	402	61% 34% 6%
1	i	402	60% 34% 6%
1	j	402	5% 62% 33% 6%
1	k	402	60% 34% 6%
1	l	402	61% 33% 6%
1	m	402	5% 61% 34% 6%
1	n	402	60% 35% 6%
1	o	402	59% 35% 6%
1	p	402	61% 33% 6%

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Mol	Chain	Length	Quality of chain
1	q	402	59% 35% 6%
1	r	402	5% 60% 34% 6%
1	s	402	60% 34% 6%
1	t	402	60% 35% 6%
1	u	402	60% 35% 6%
1	v	402	61% 33% 6%
1	w	402	61% 34% 6%
1	x	402	61% 34% 6%
1	y	402	60% 34% 6%
1	z	402	61% 33% 6%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 198528 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	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		

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

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	a	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		
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		

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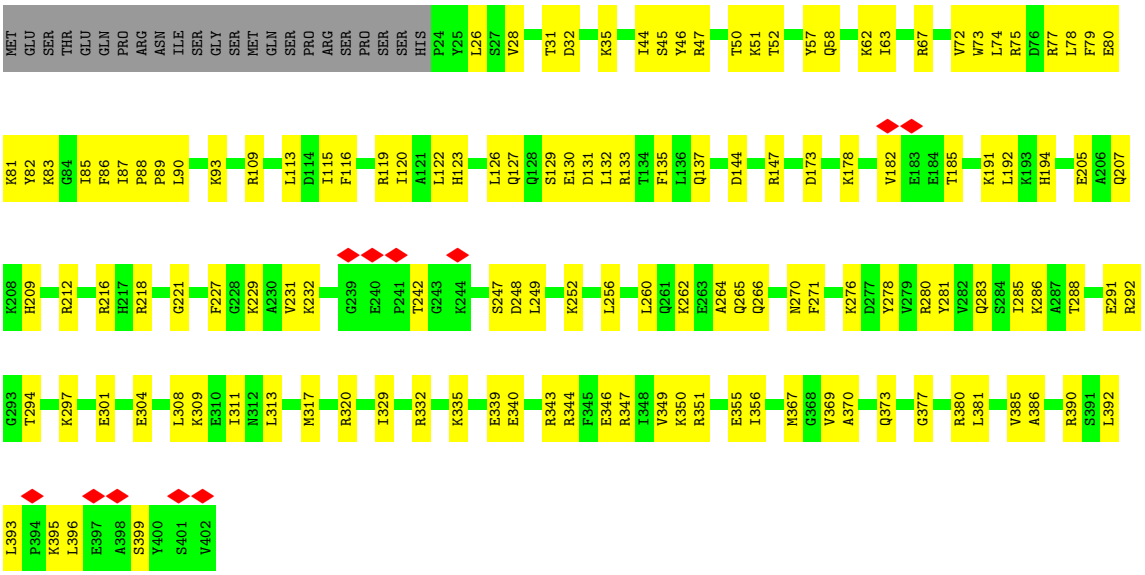
Mol	Chain	Residues	Atoms					AltConf	Trace
1	v	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	w	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	x	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	y	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		
1	z	379	Total	C	N	O	S	0	0
			3102	1973	536	583	10		

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 and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

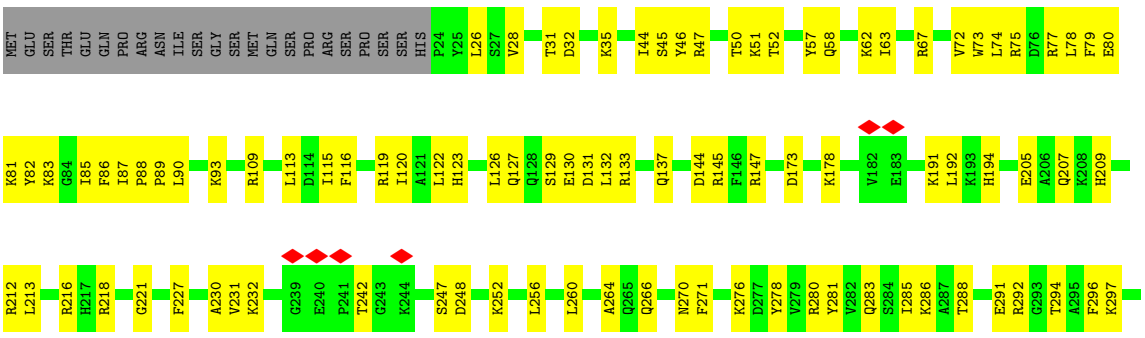
• Molecule 1: Sorting nexin 1

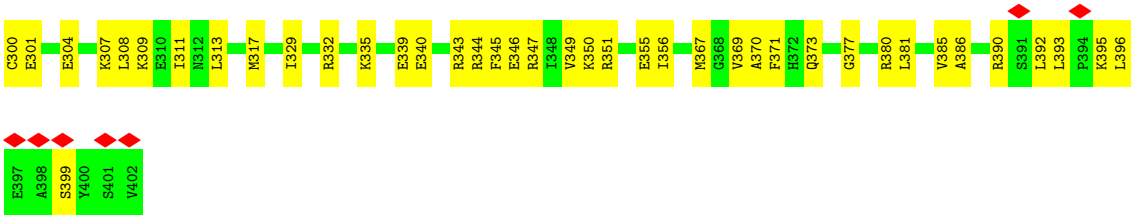
Chain 0:



• Molecule 1: Sorting nexin 1

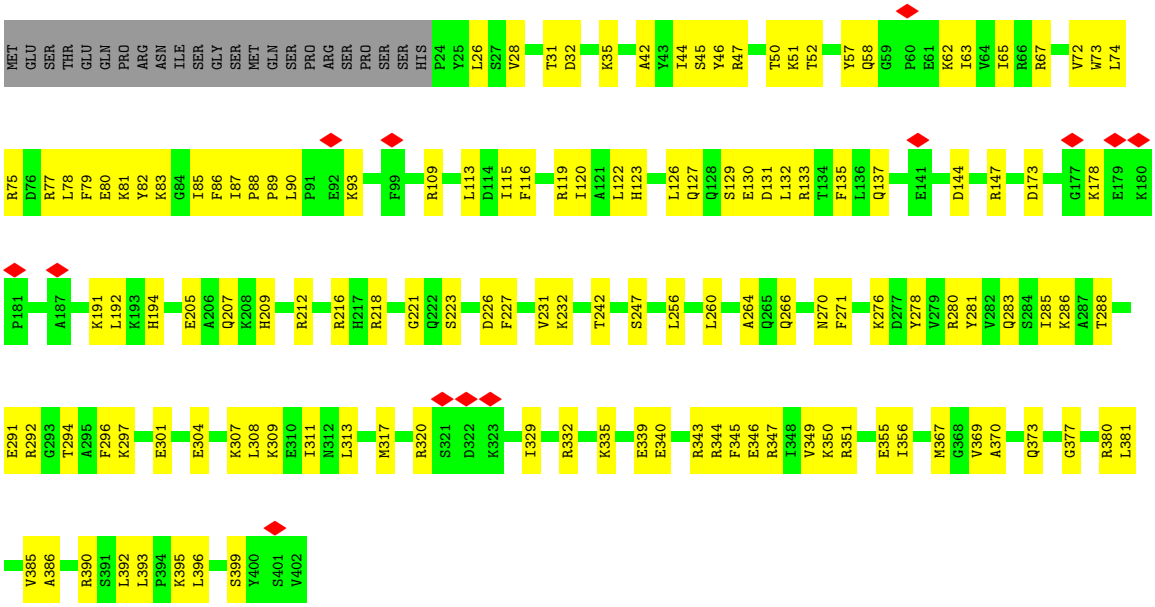
Chain 1:





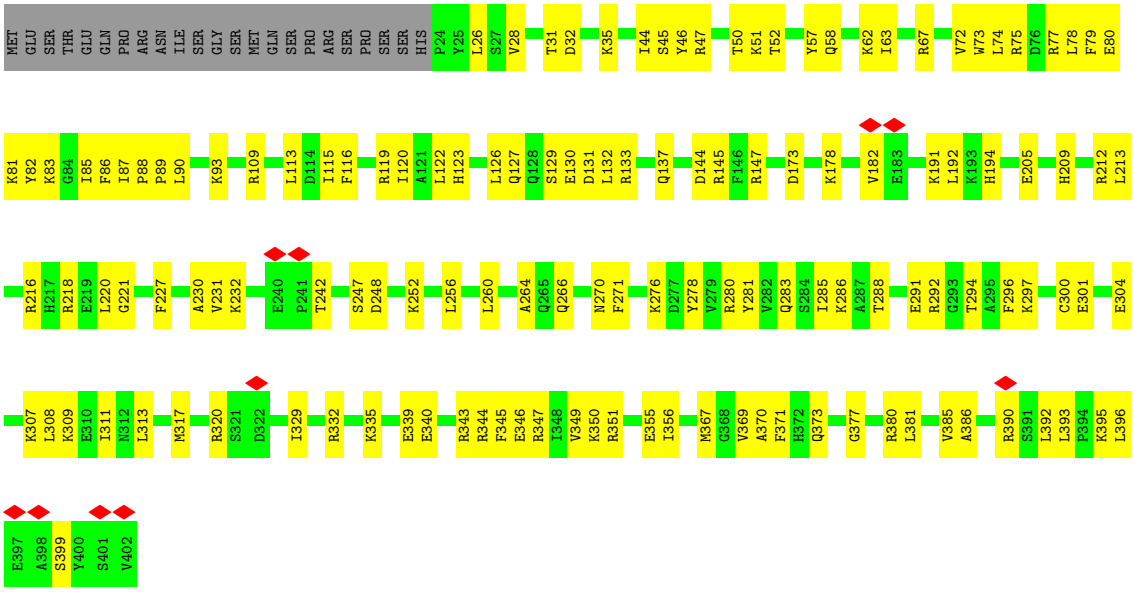
• Molecule 1: Sorting nexin 1

Chain 2:



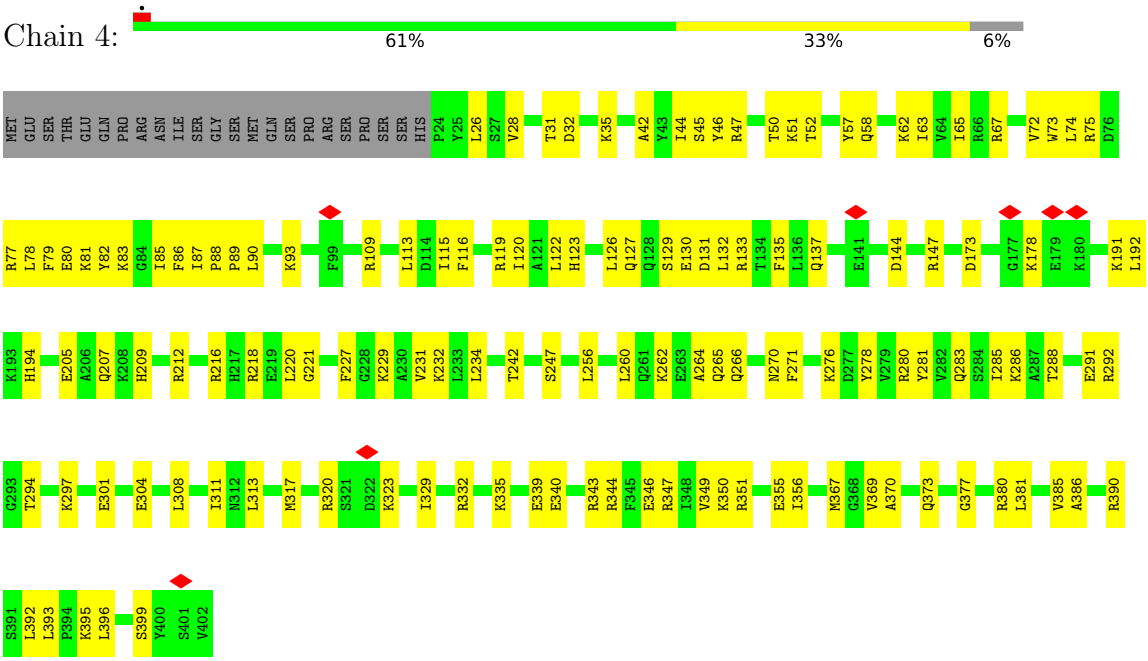
• Molecule 1: Sorting nexin 1

Chain 3:



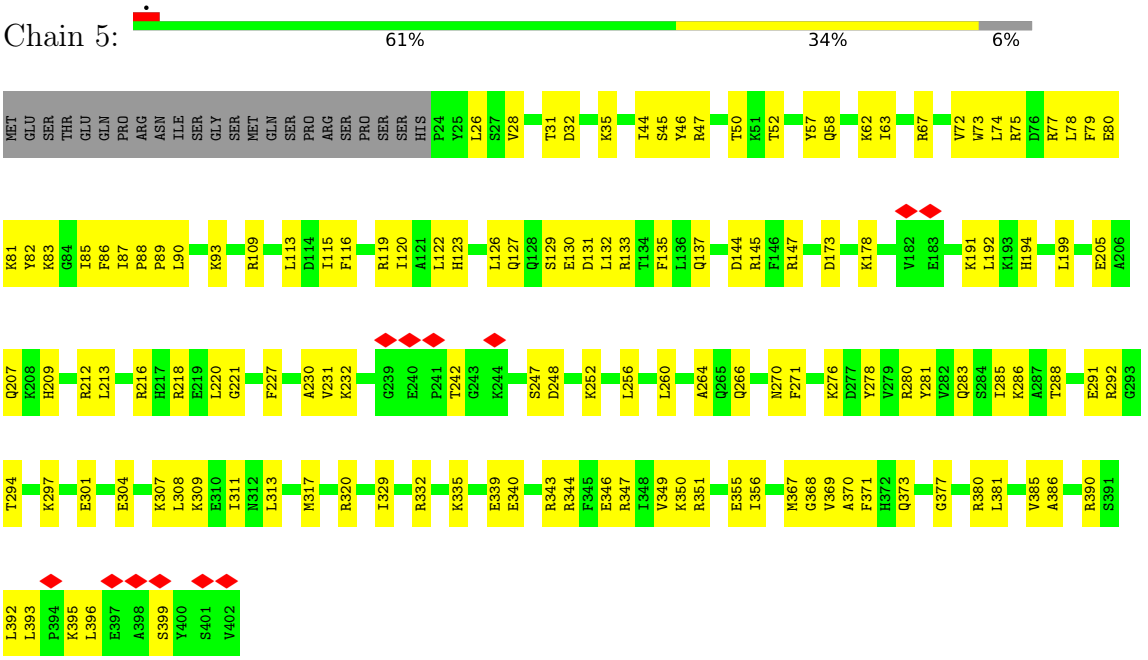
• Molecule 1: Sorting nexin 1

Chain 4:



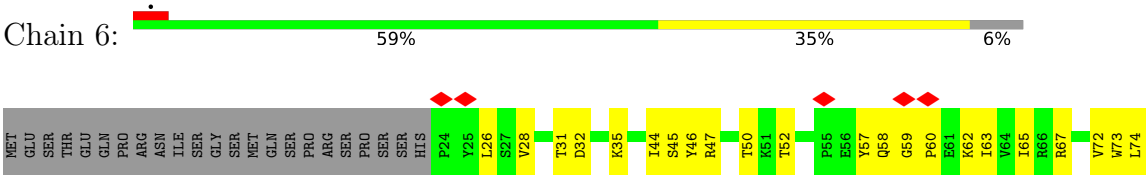
• Molecule 1: Sorting nexin 1

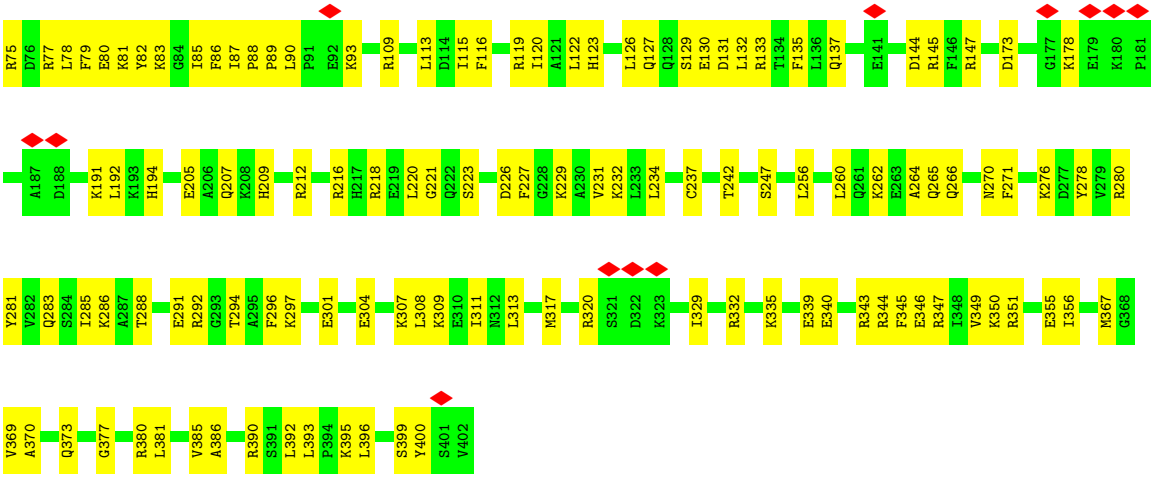
Chain 5:



• Molecule 1: Sorting nexin 1

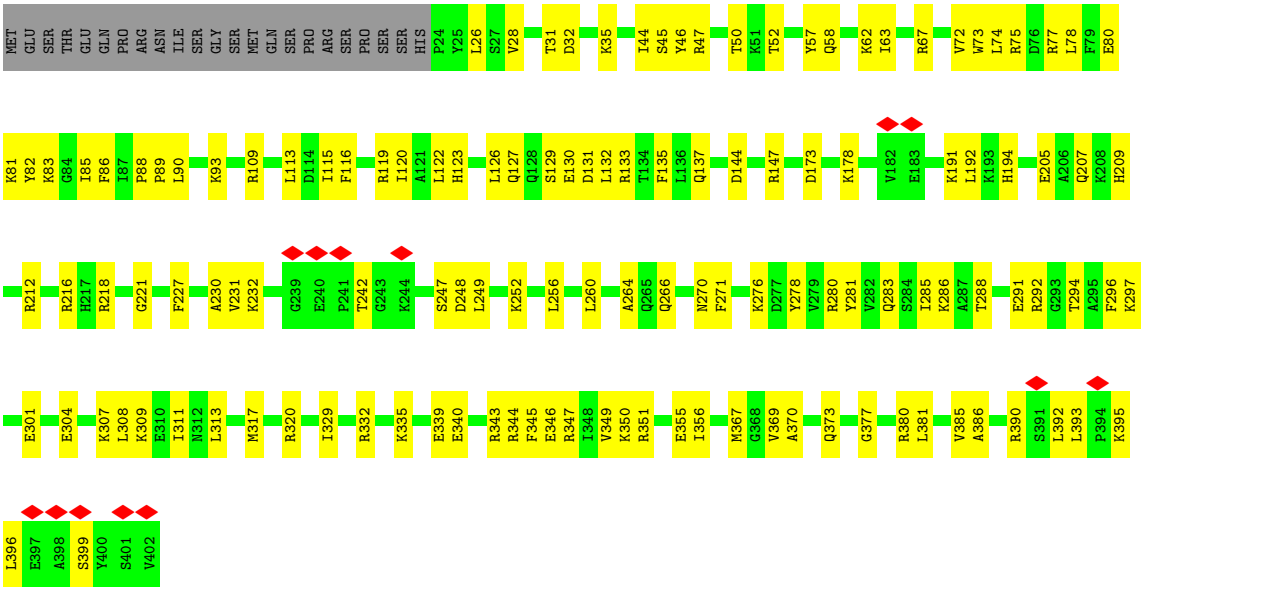
Chain 6:





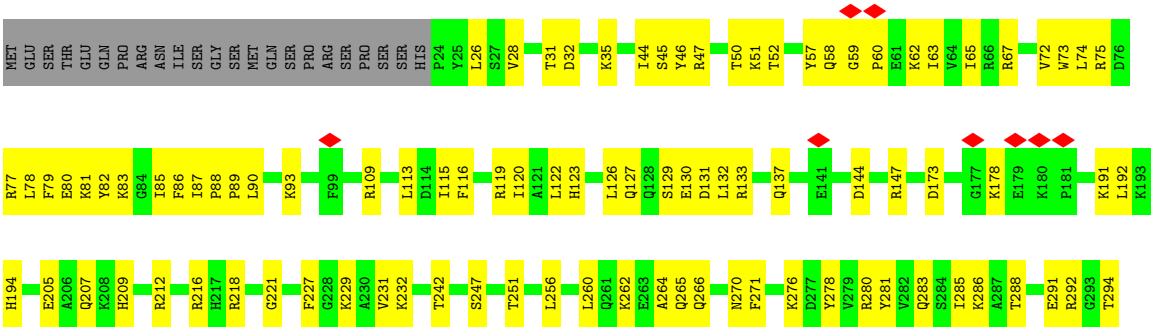
• Molecule 1: Sorting nexin 1

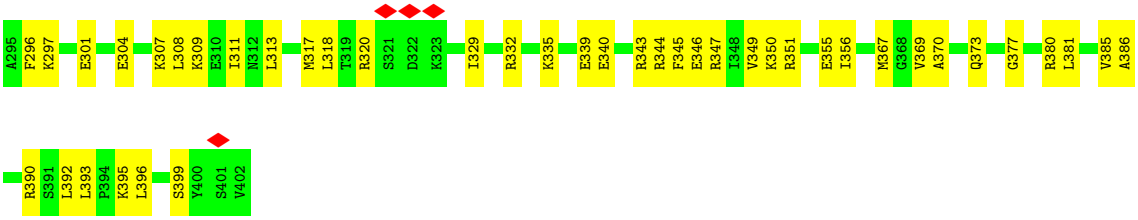
Chain 7:



• Molecule 1: Sorting nexin 1

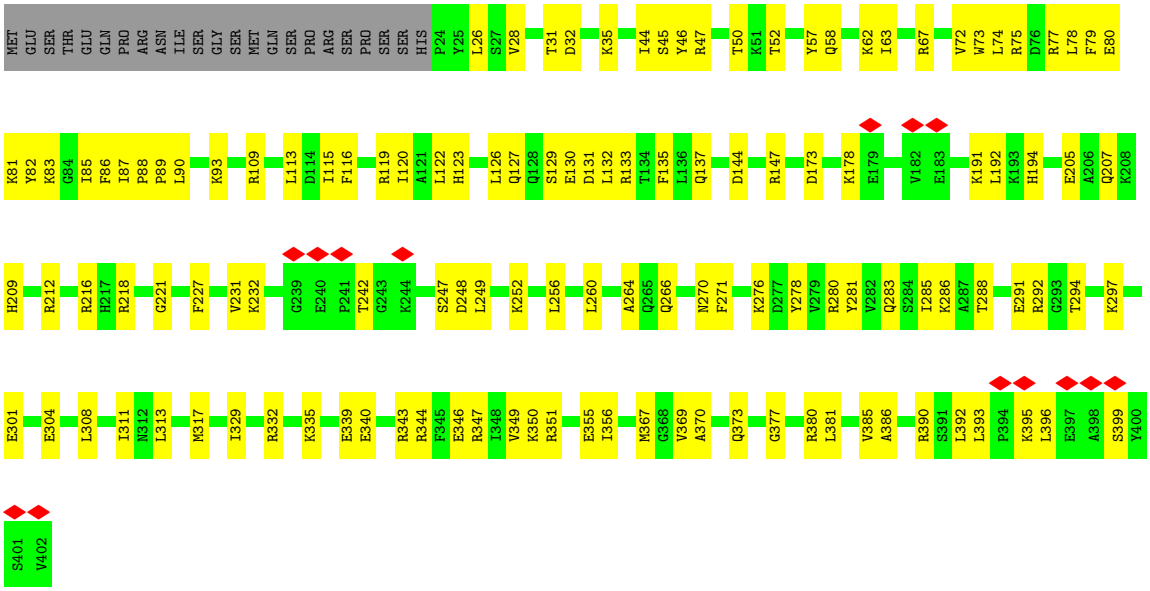
Chain 8:





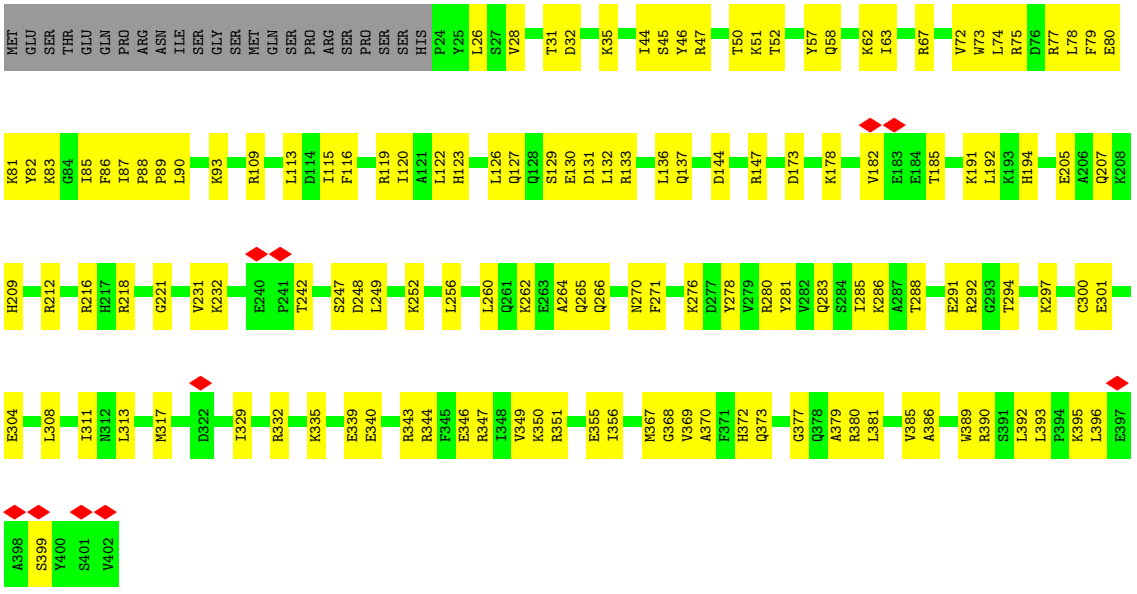
• Molecule 1: Sorting nexin 1

Chain 9:



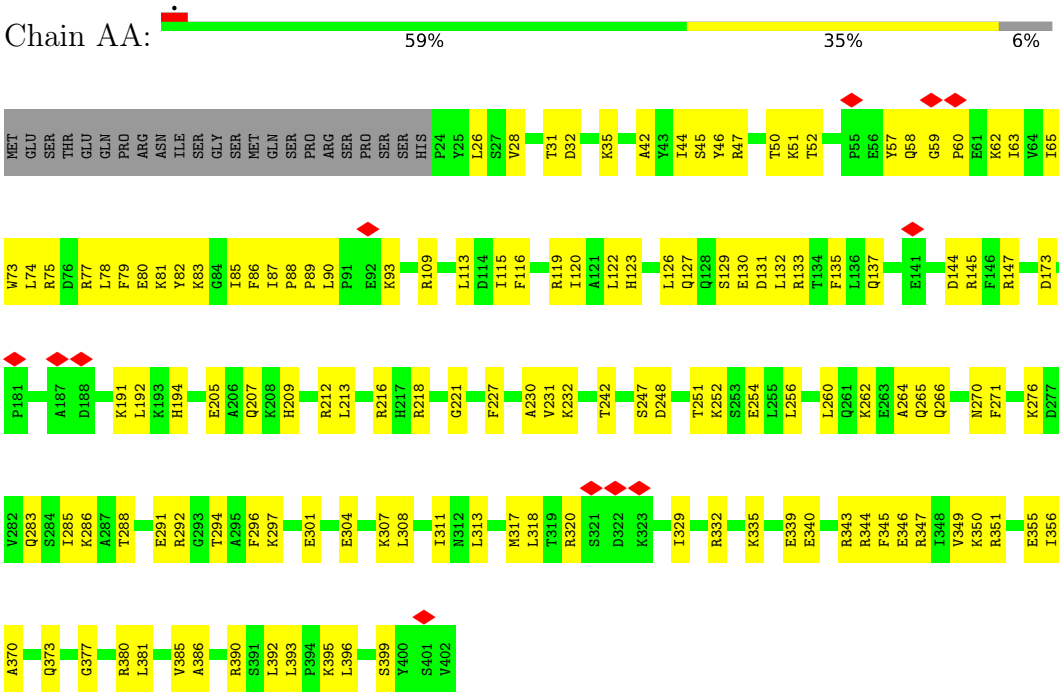
• Molecule 1: Sorting nexin 1

Chain A:



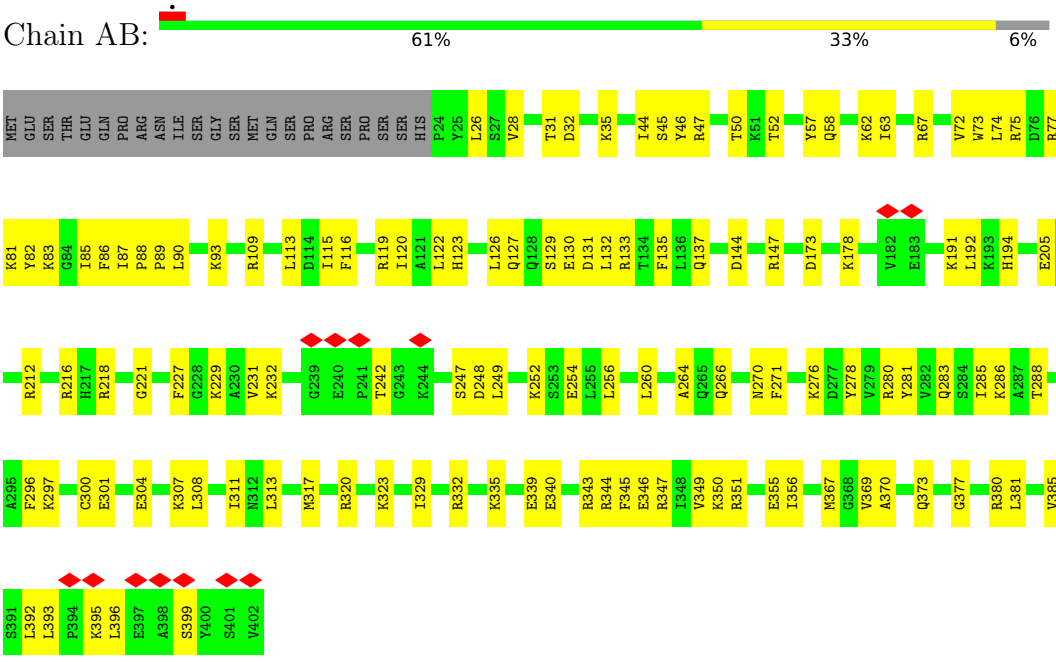
• Molecule 1: Sorting nexin 1

Chain AA:



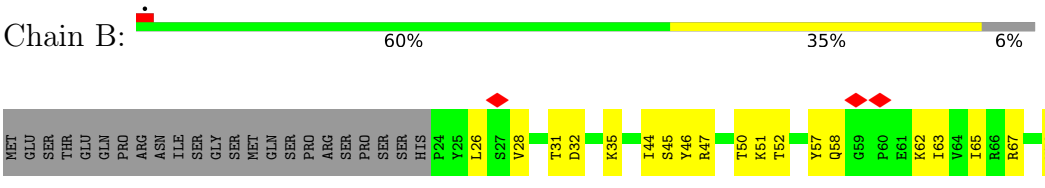
• Molecule 1: Sorting nexin 1

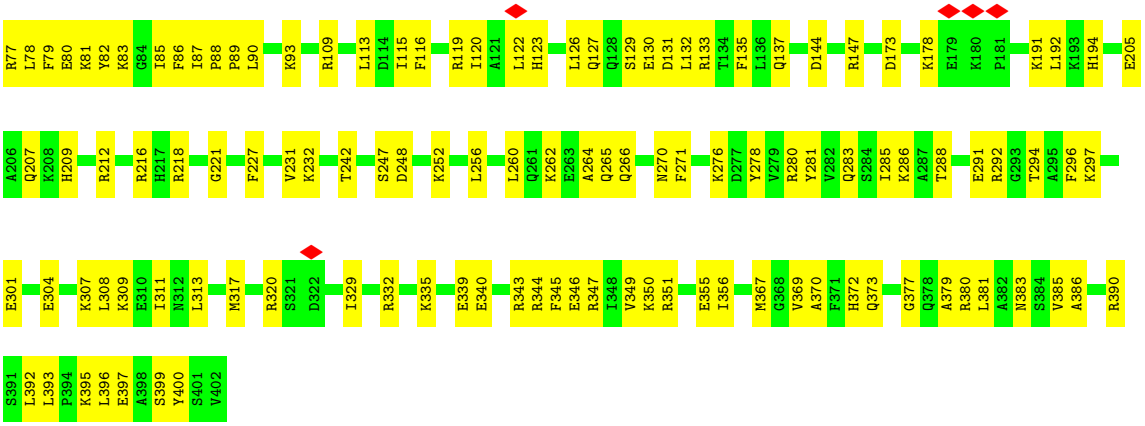
Chain AB:



• Molecule 1: Sorting nexin 1

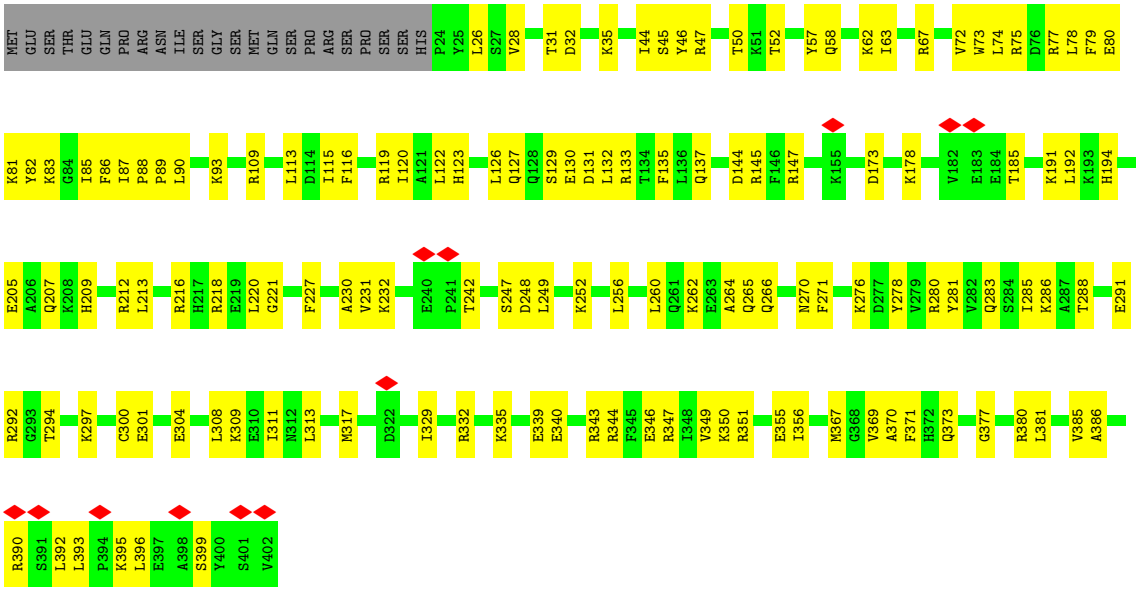
Chain B:





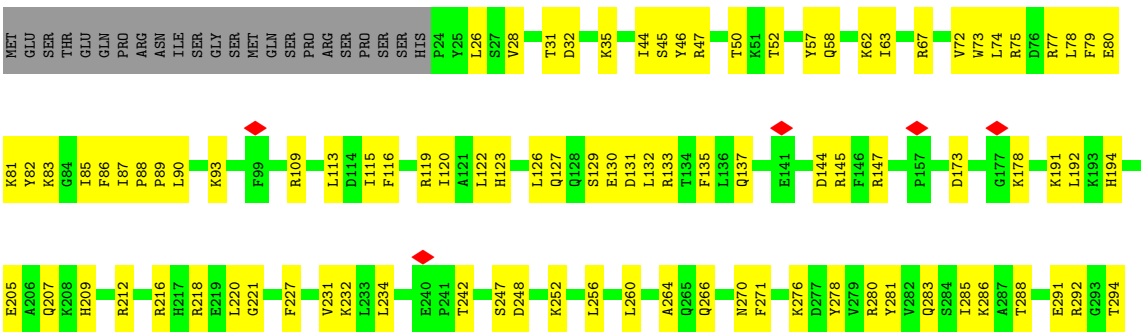
• Molecule 1: Sorting nexin 1

Chain C:



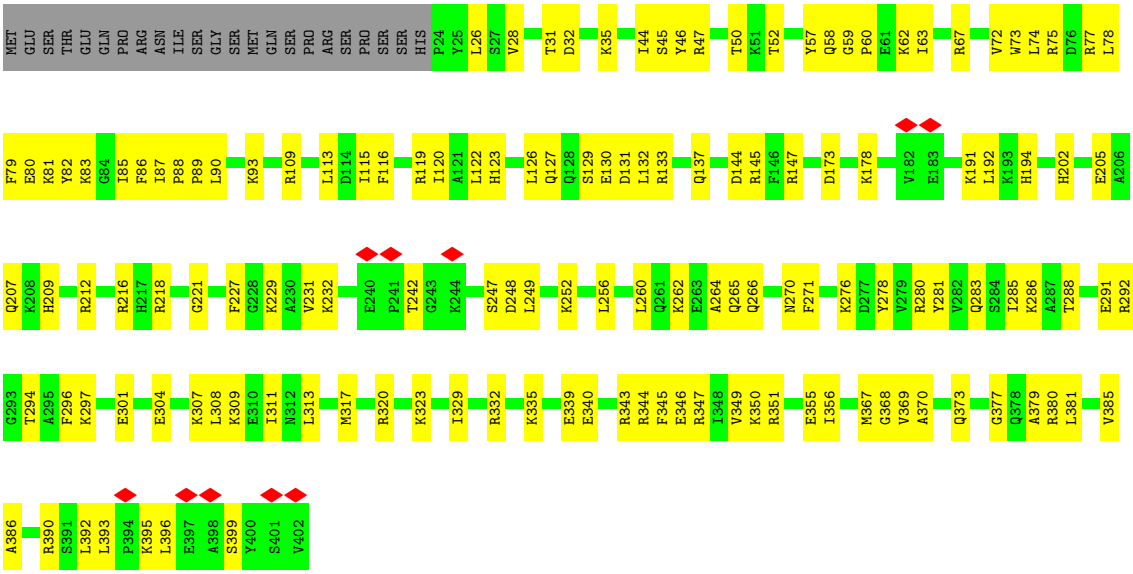
• Molecule 1: Sorting nexin 1

Chain D:



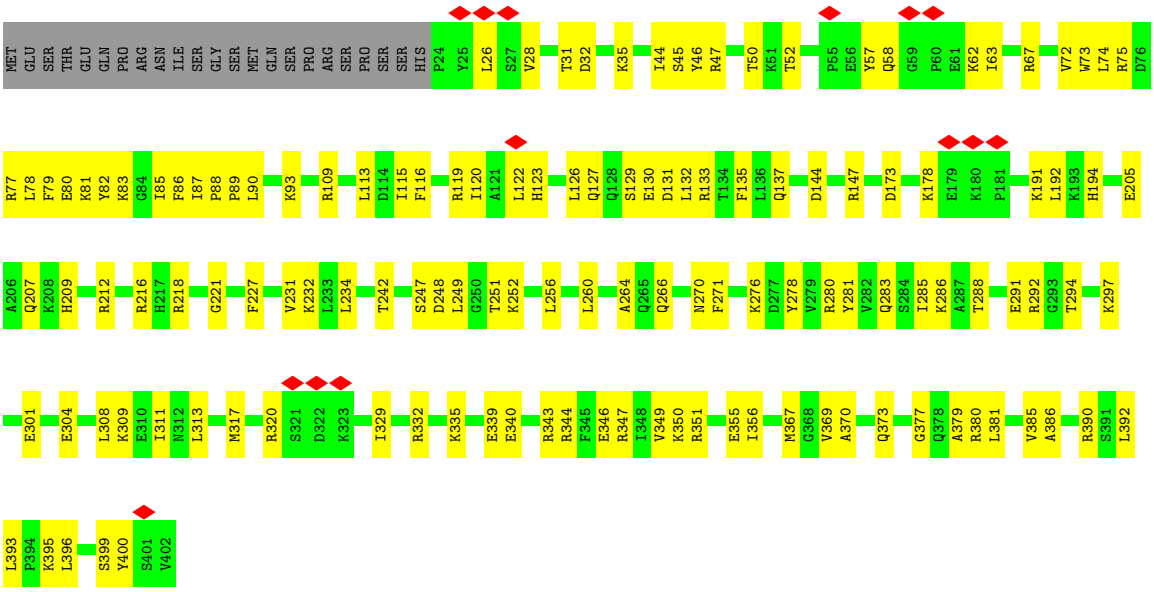
• Molecule 1: Sorting nexin 1

Chain E:



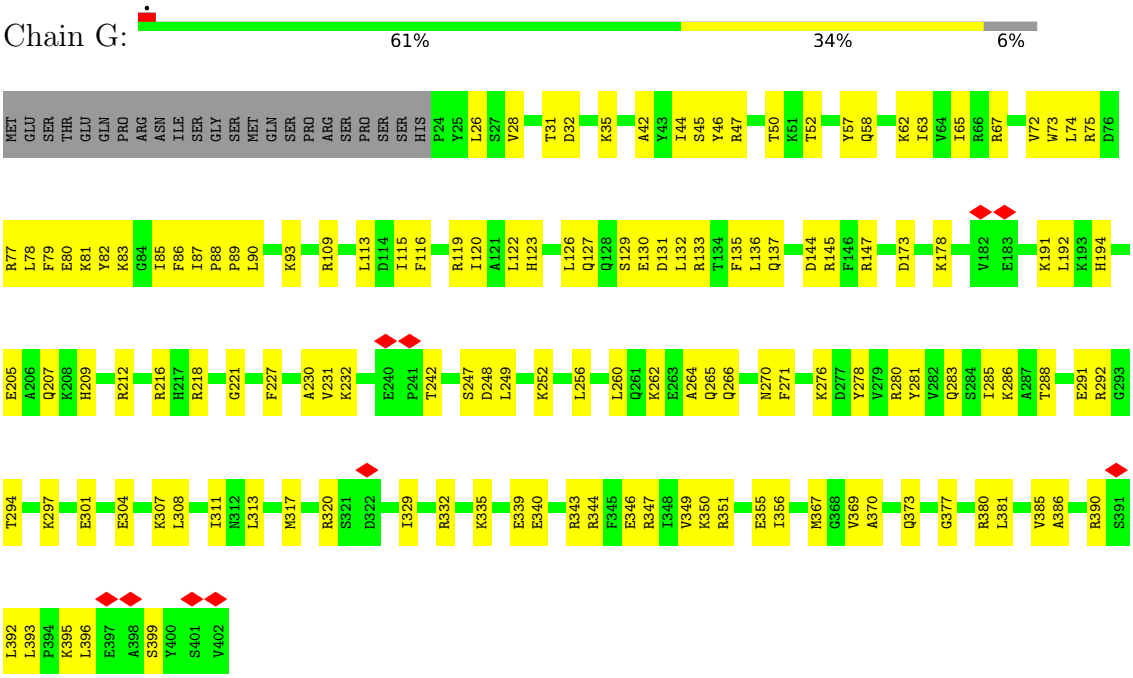
• Molecule 1: Sorting nexin 1

Chain F:



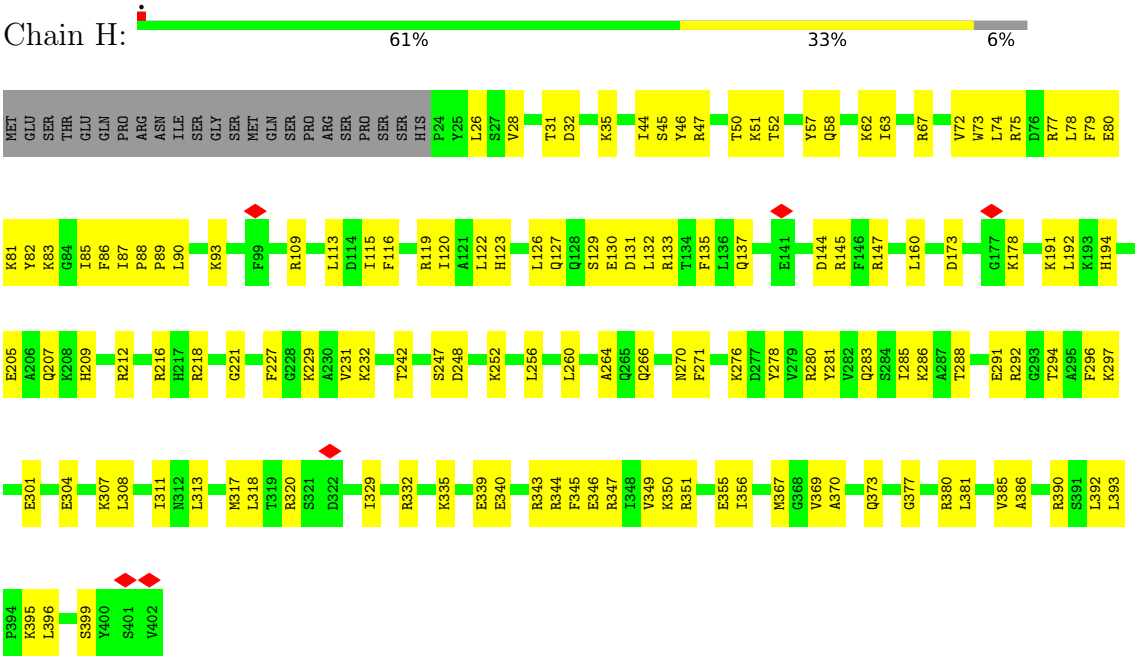
• Molecule 1: Sorting nexin 1

Chain G:



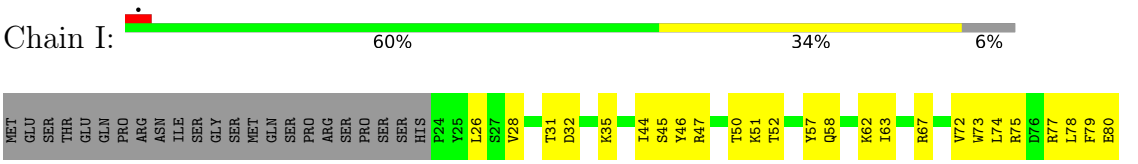
• Molecule 1: Sorting nexin 1

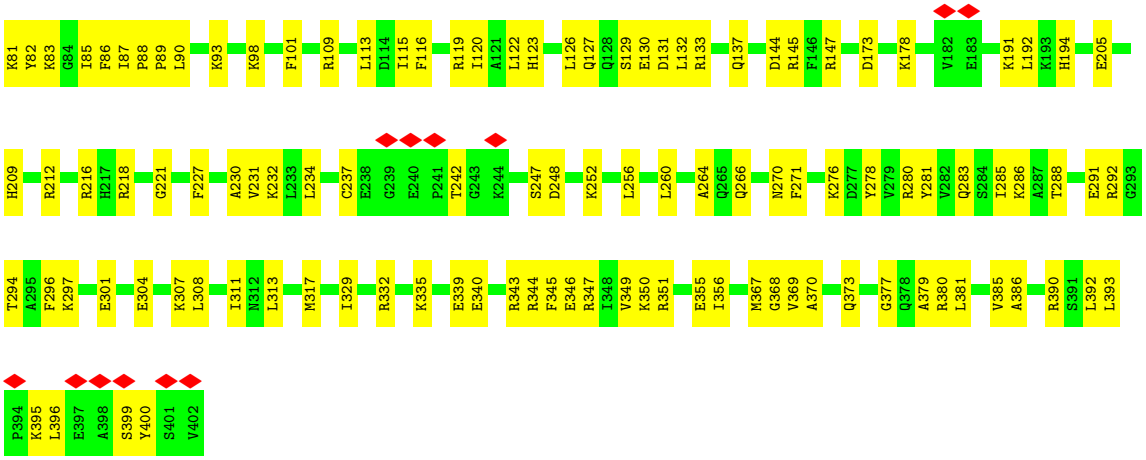
Chain H:



• Molecule 1: Sorting nexin 1

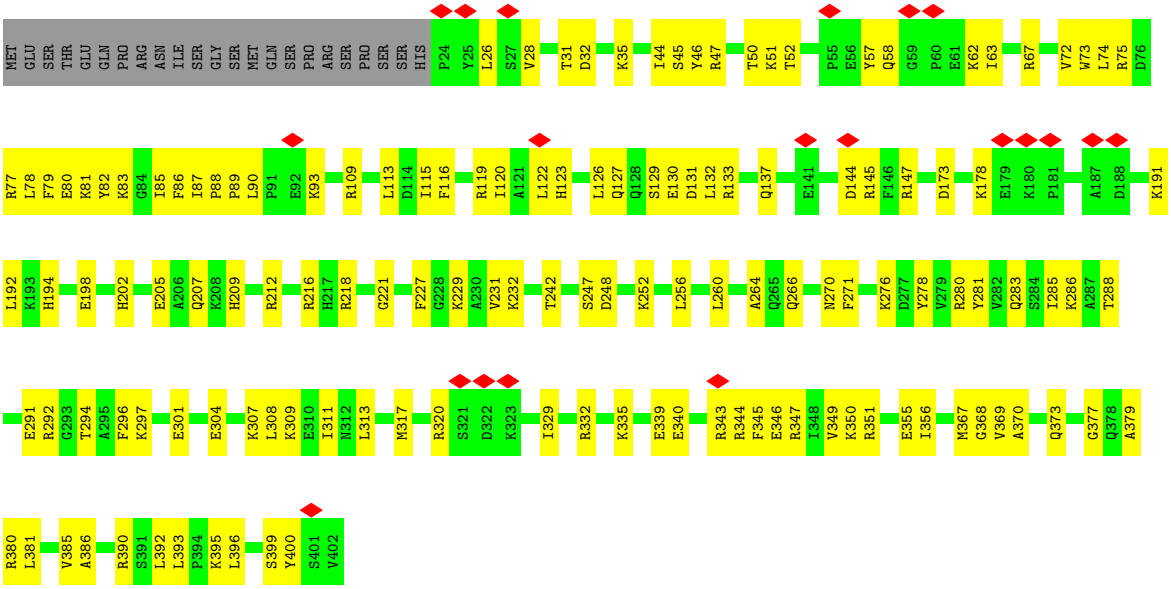
Chain I:





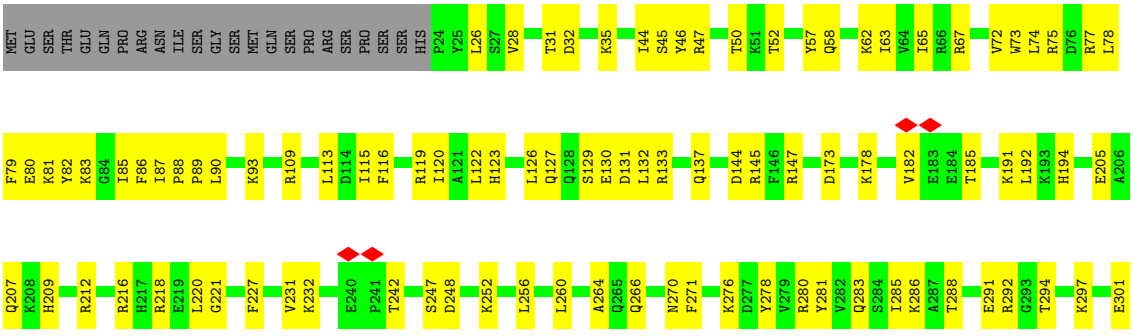
• Molecule 1: Sorting nexin 1

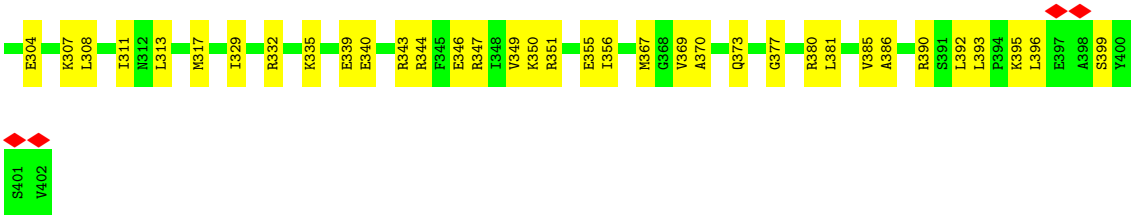
Chain J:



• Molecule 1: Sorting nexin 1

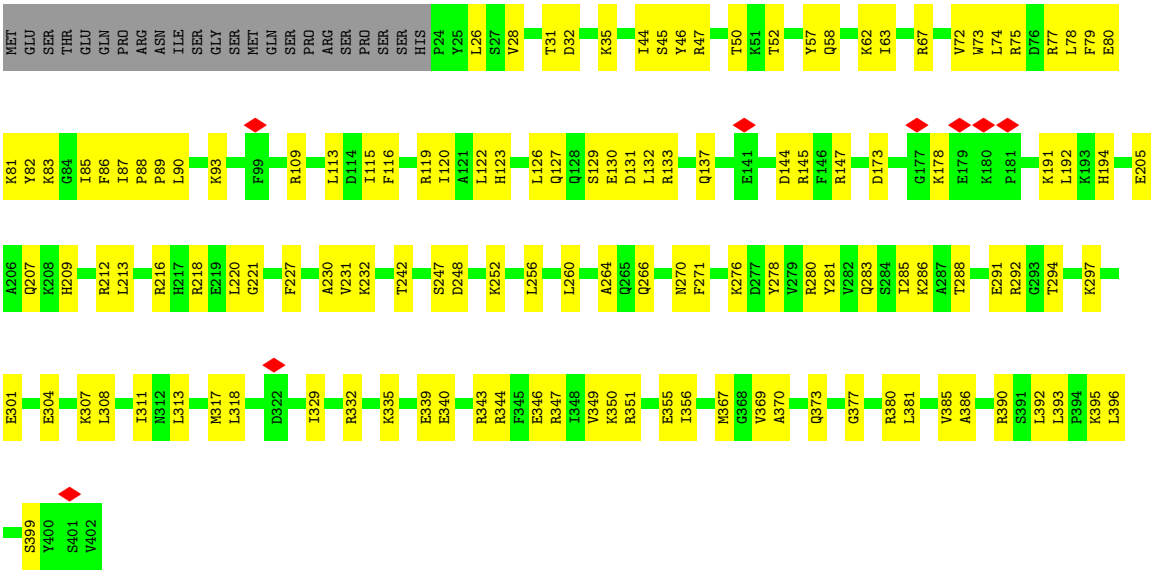
Chain K:





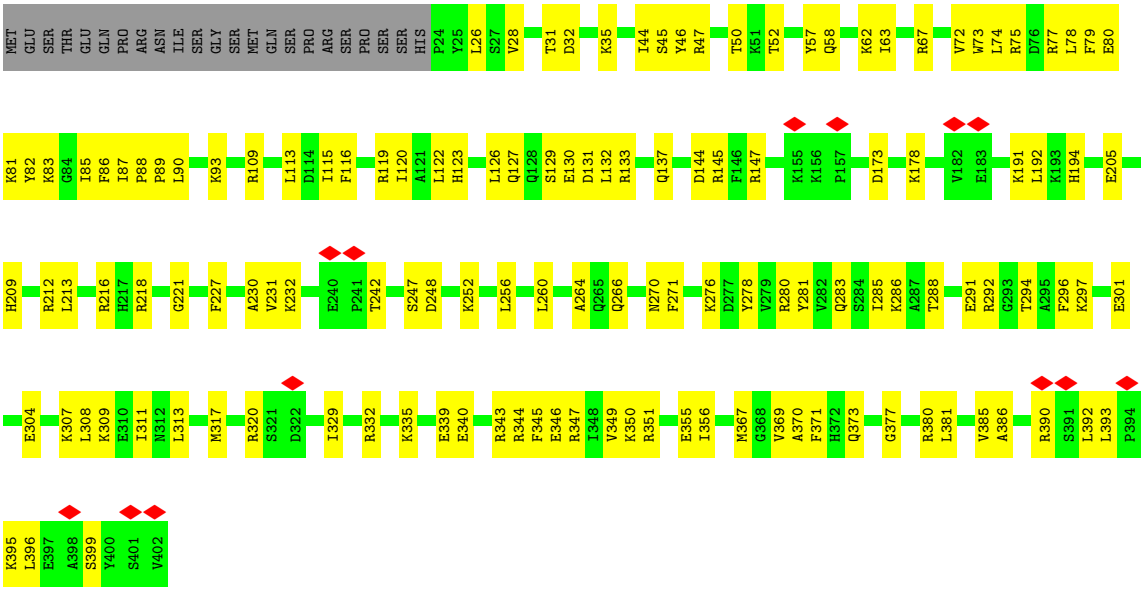
• Molecule 1: Sorting nexin 1

Chain L:



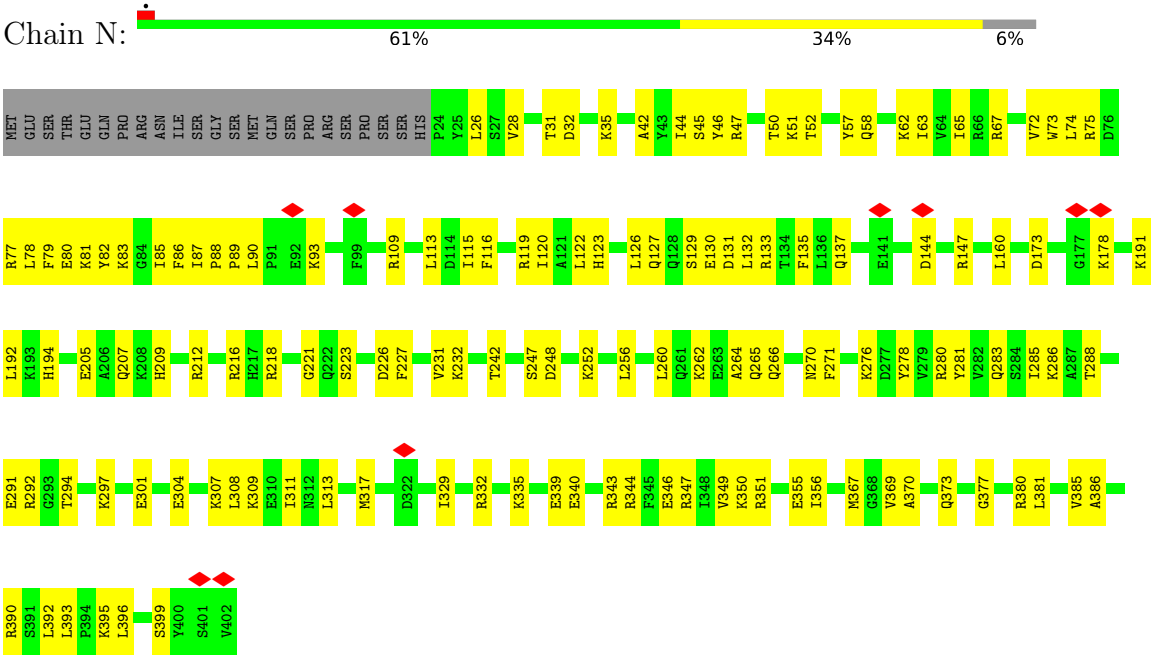
• Molecule 1: Sorting nexin 1

Chain M:



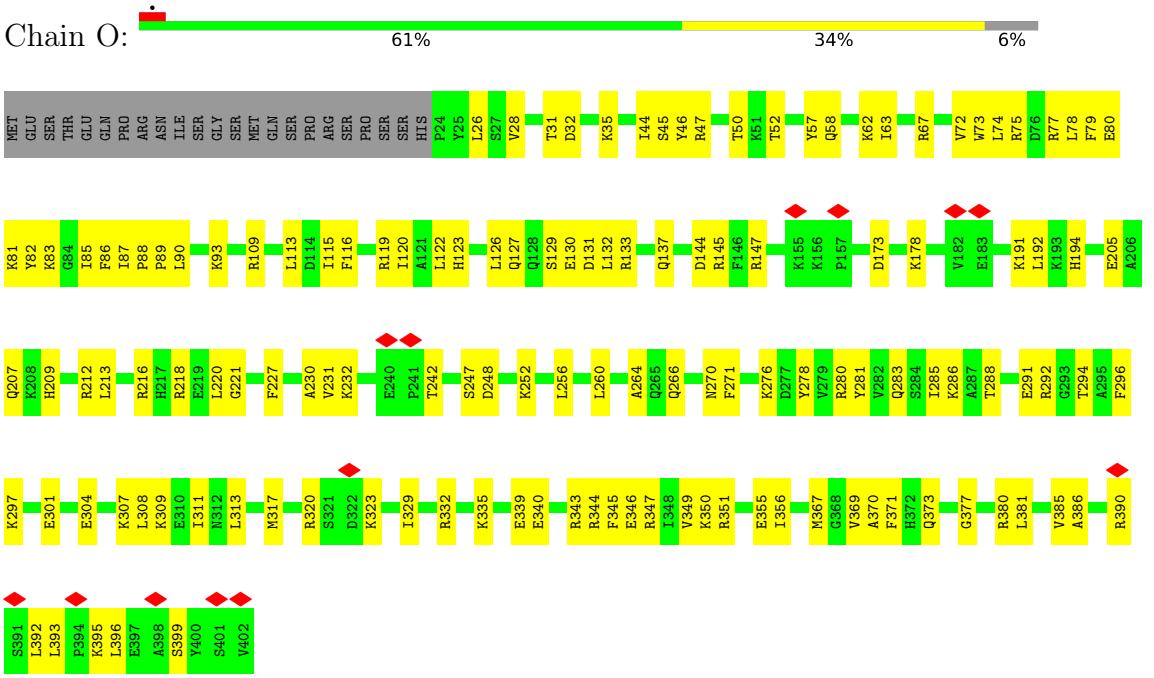
• Molecule 1: Sorting nexin 1

Chain N:



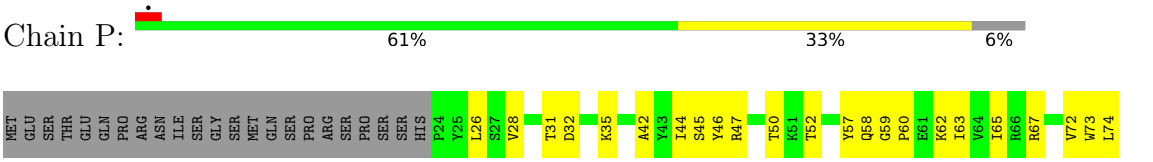
• Molecule 1: Sorting nexin 1

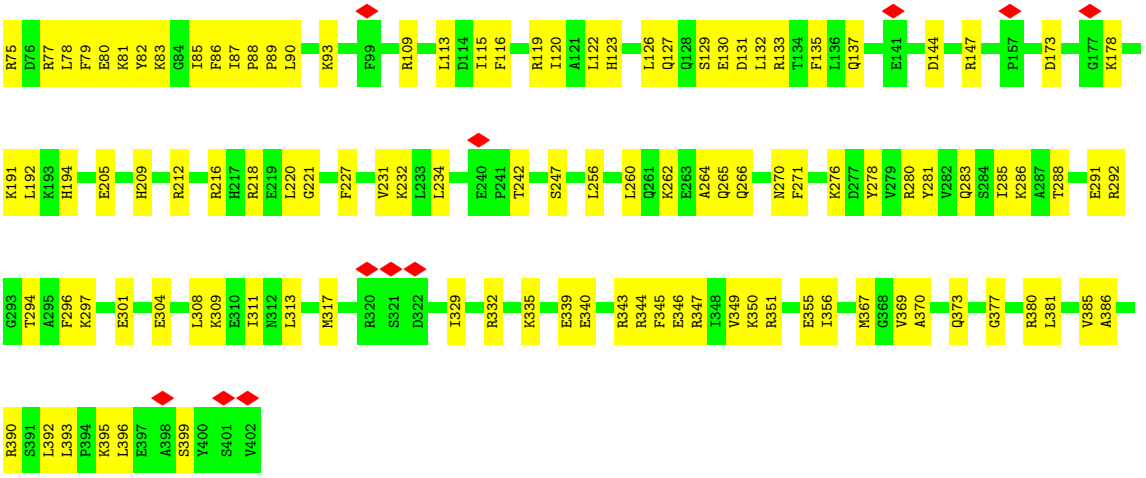
Chain O:



• Molecule 1: Sorting nexin 1

Chain P:





• Molecule 1: Sorting nexin 1

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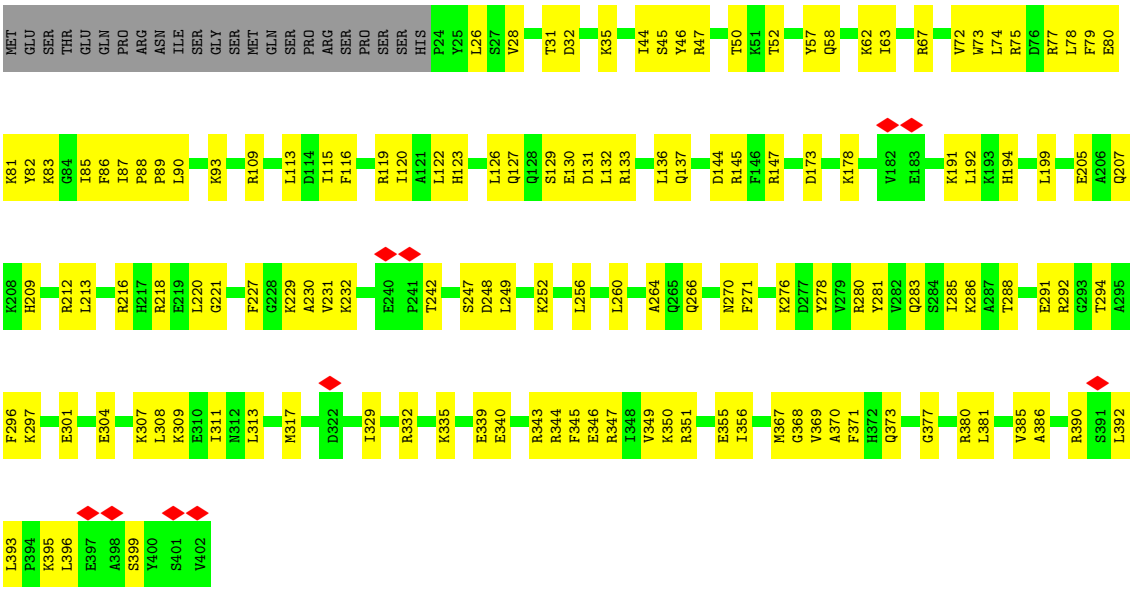
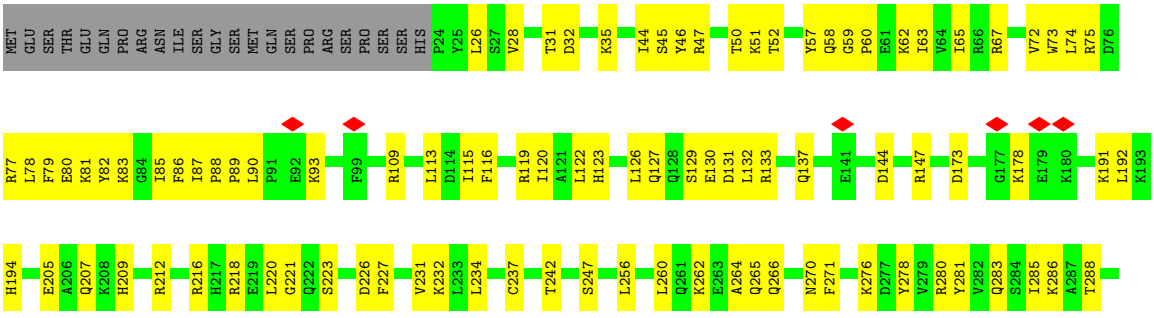
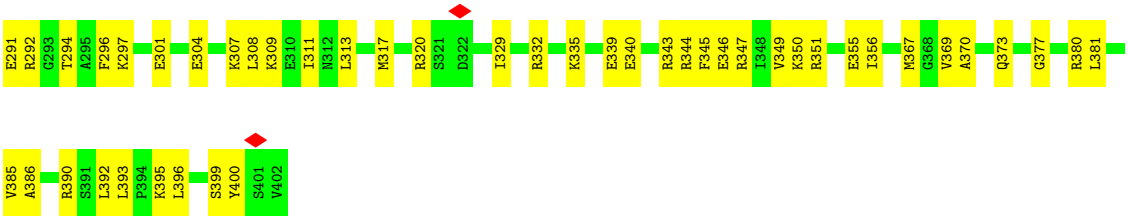


• Molecule 1: Sorting nexin 1

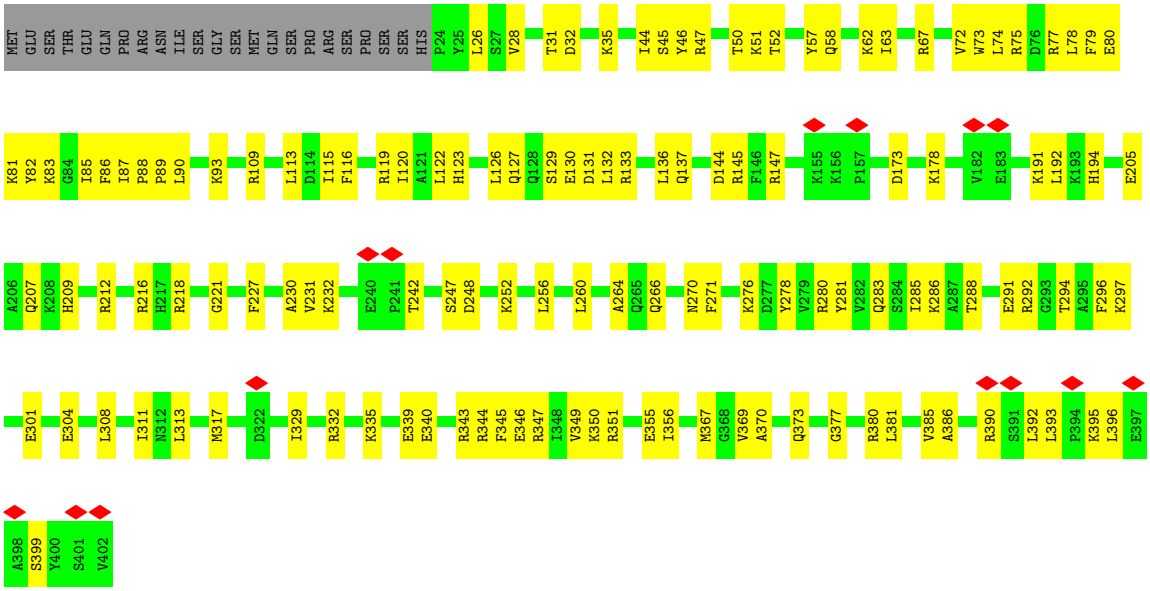
Chain R:





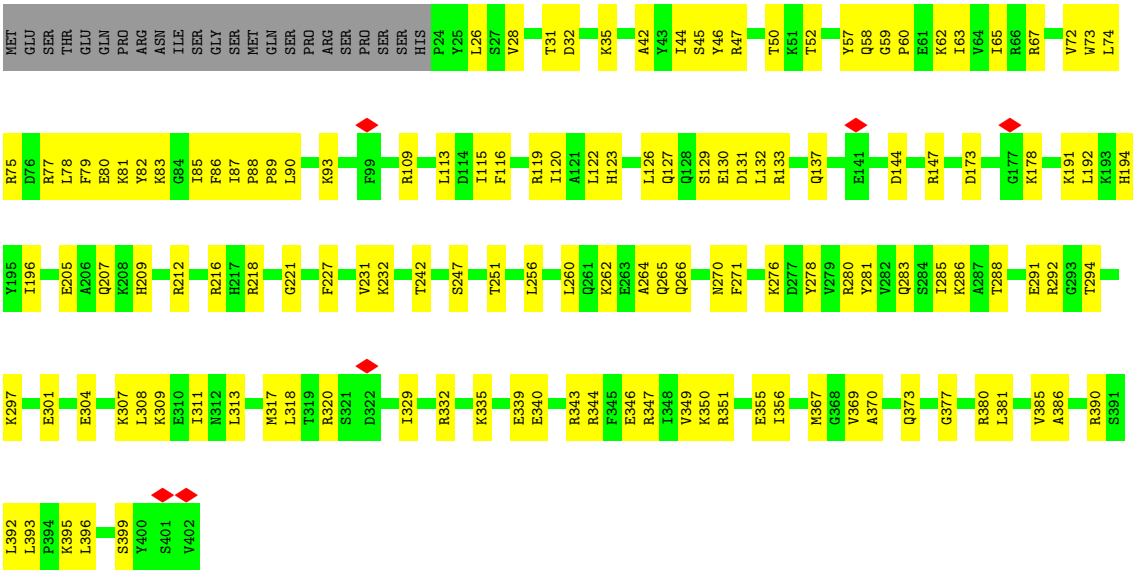
• Molecule 1: Sorting nexin 1

Chain S:



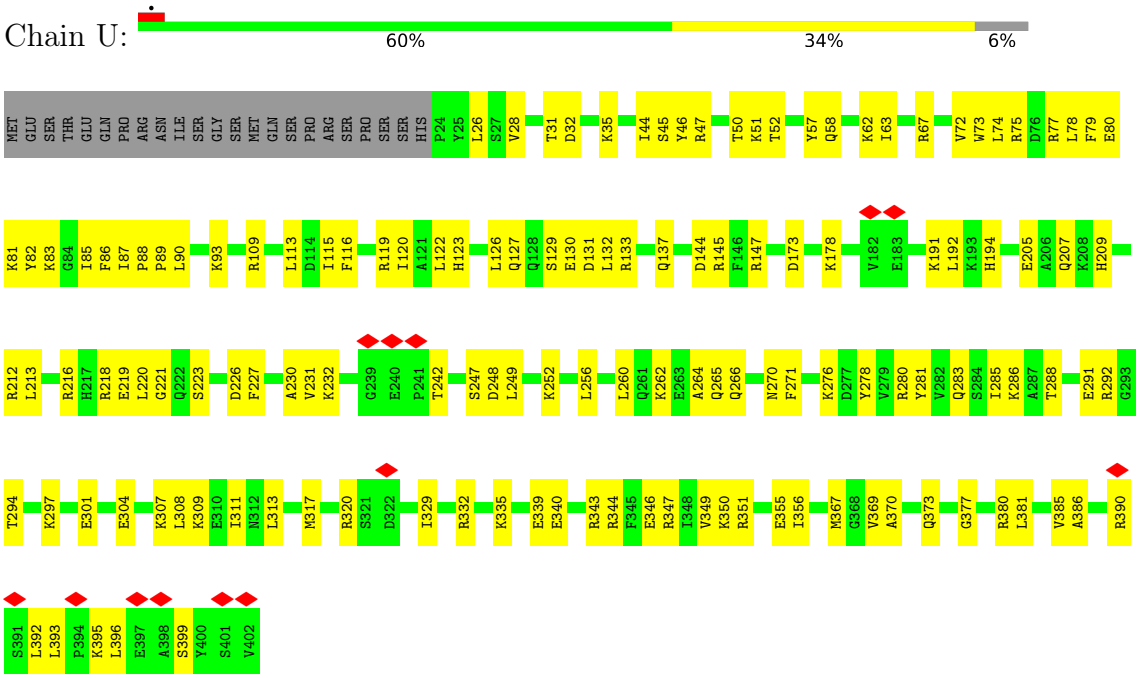
• Molecule 1: Sorting nexin 1

Chain T:



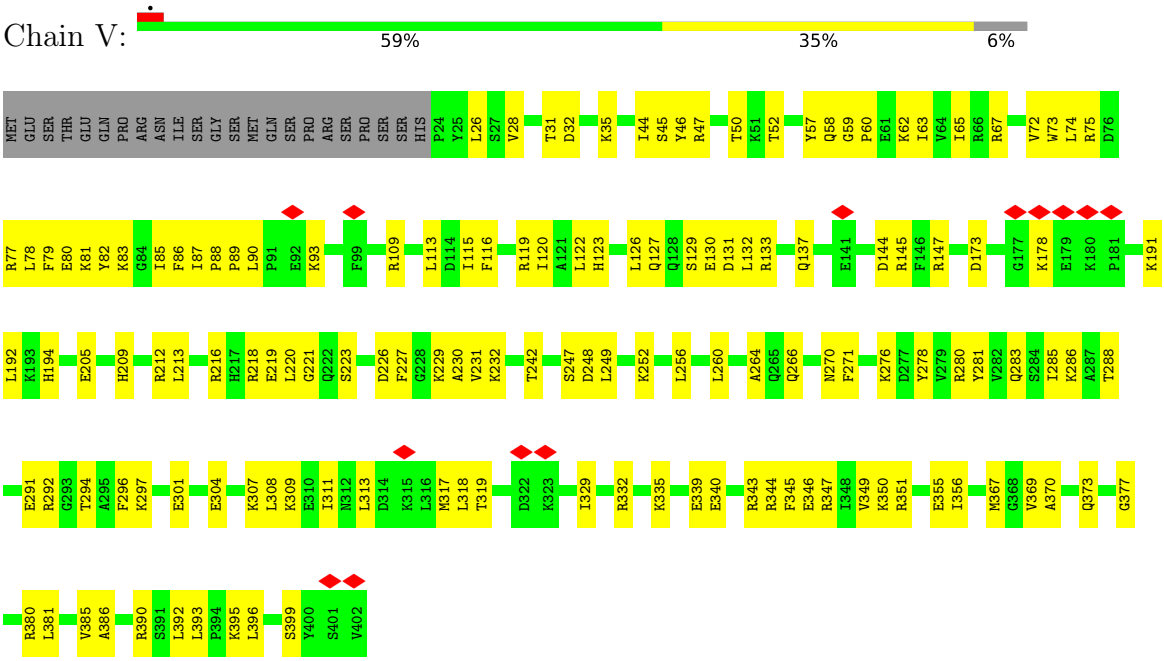
• Molecule 1: Sorting nexin 1

Chain U:



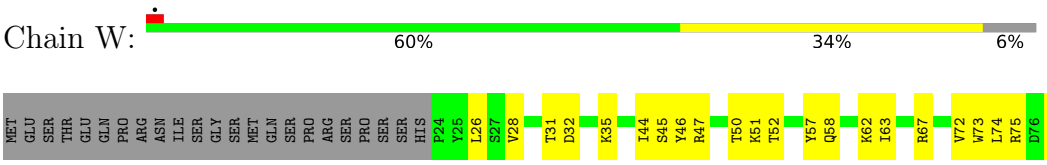
• Molecule 1: Sorting nexin 1

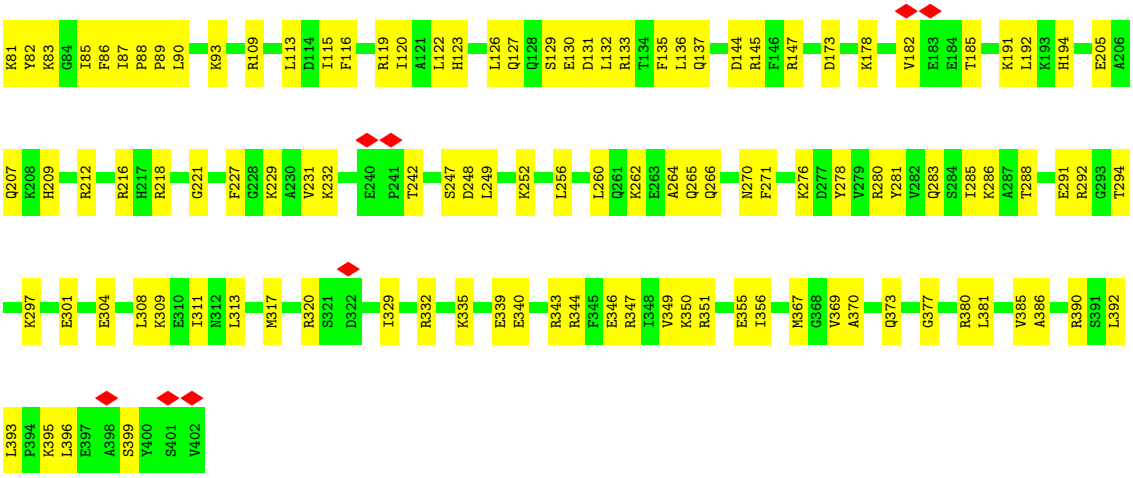
Chain V:



• Molecule 1: Sorting nexin 1

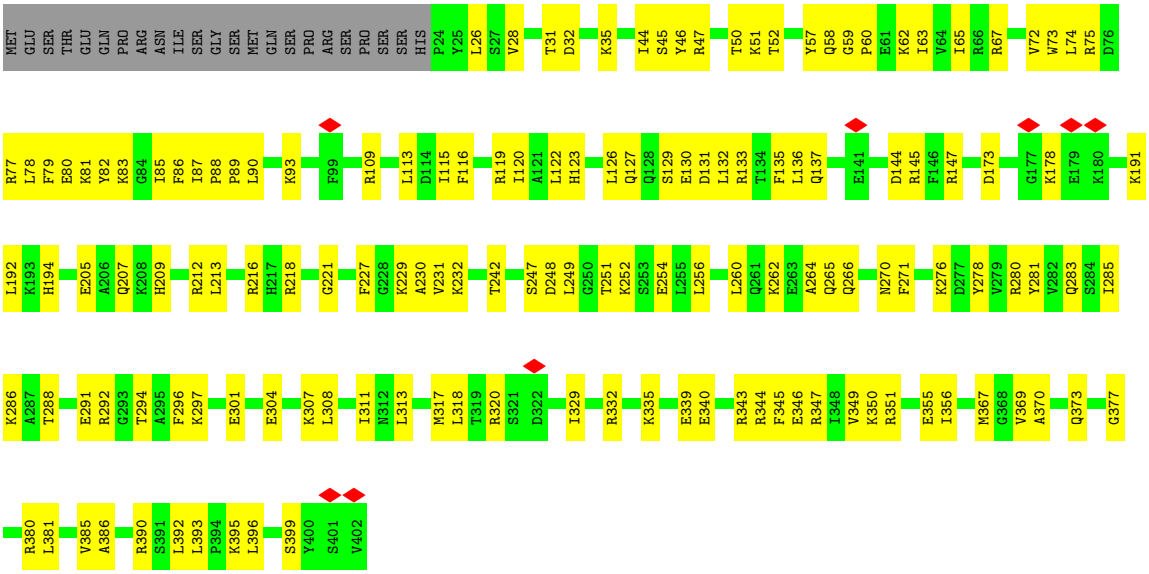
Chain W:





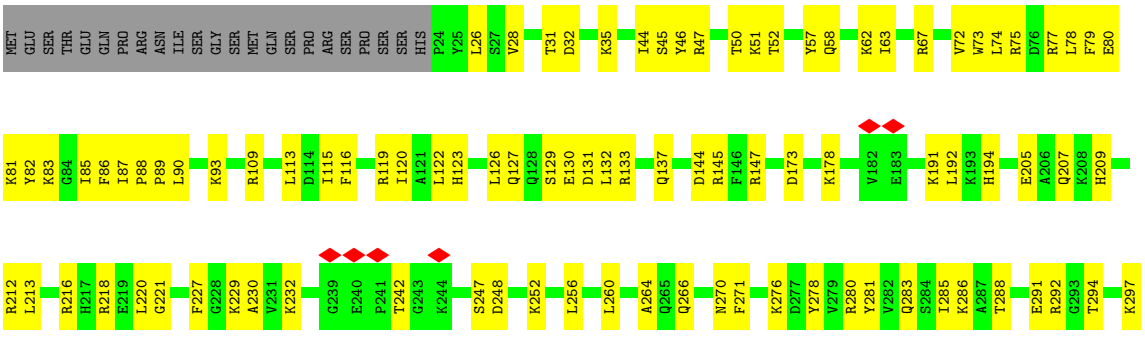
• Molecule 1: Sorting nexin 1

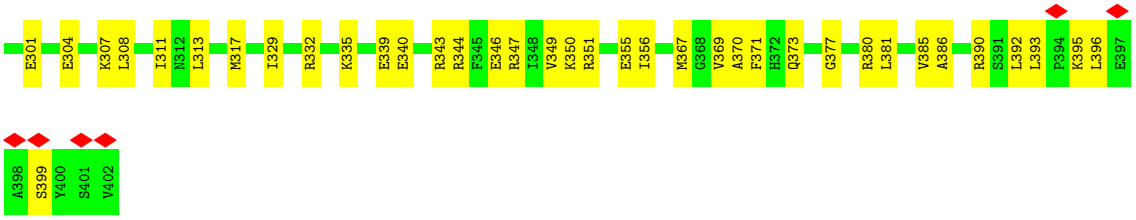
Chain X:



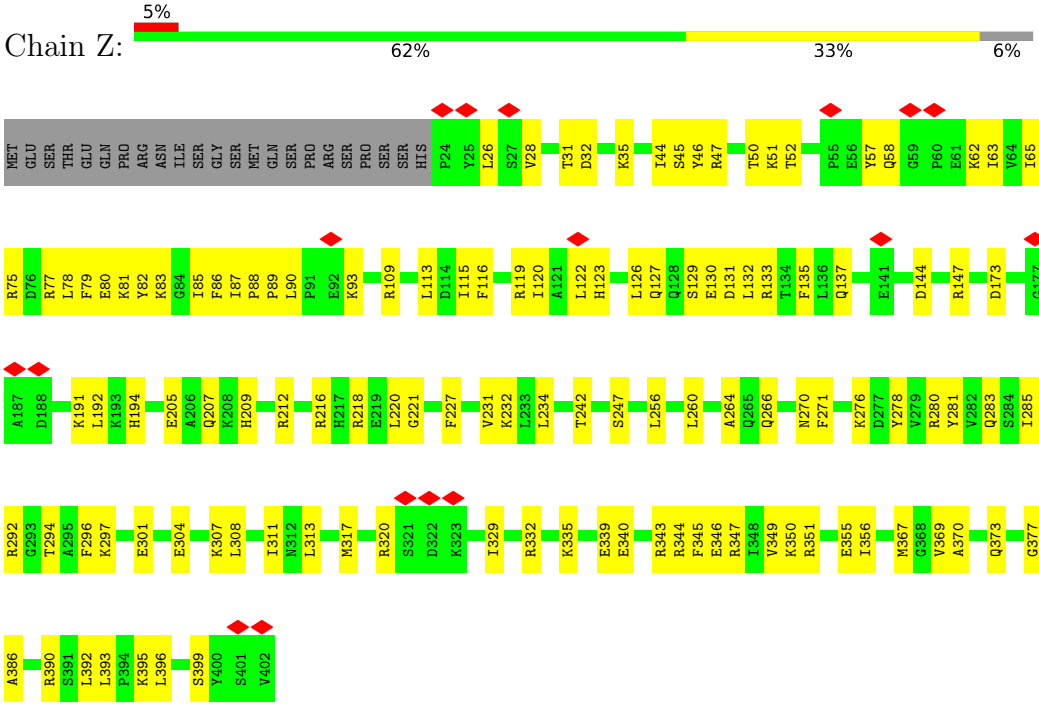
• Molecule 1: Sorting nexin 1

Chain Y:





• Molecule 1: Sorting nexin 1



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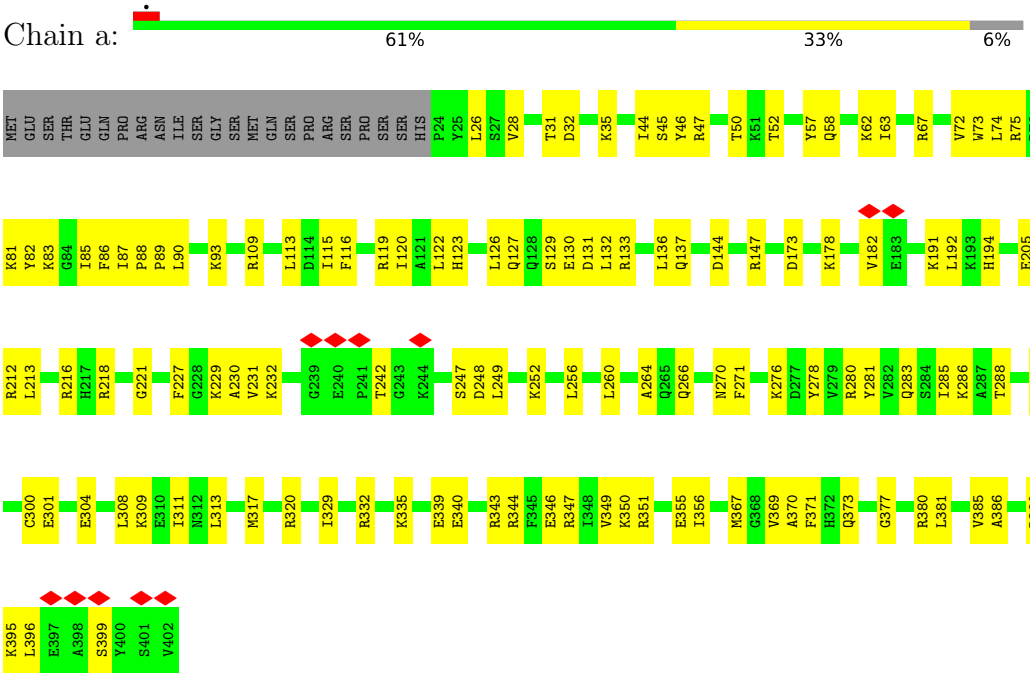
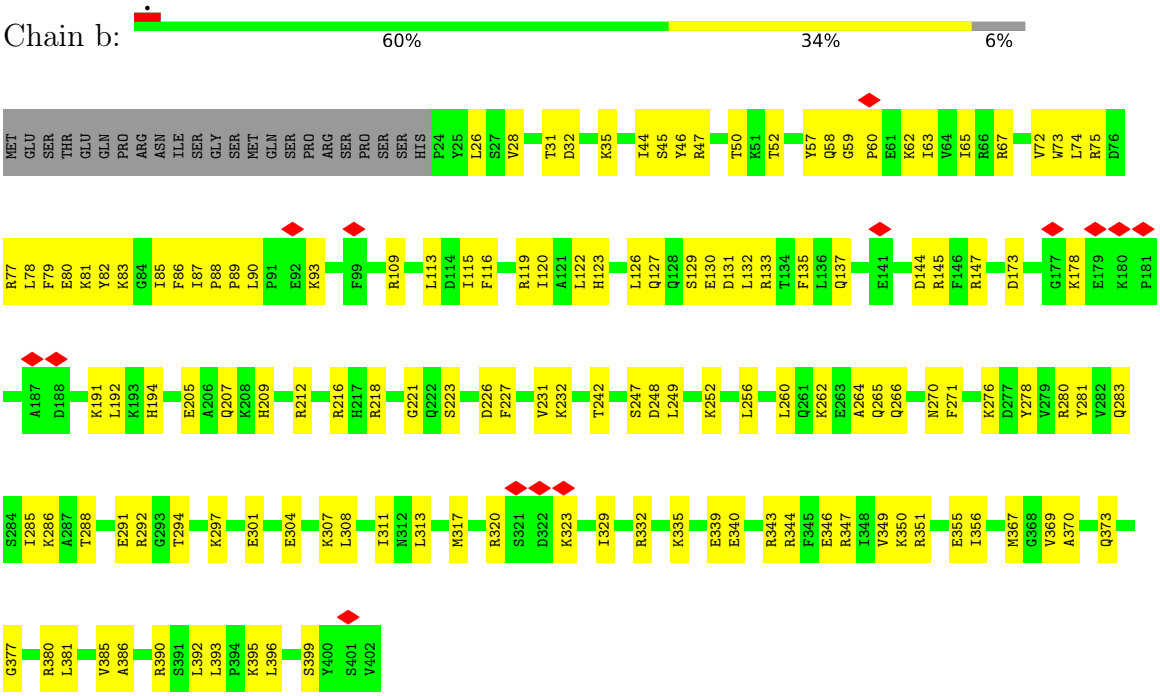


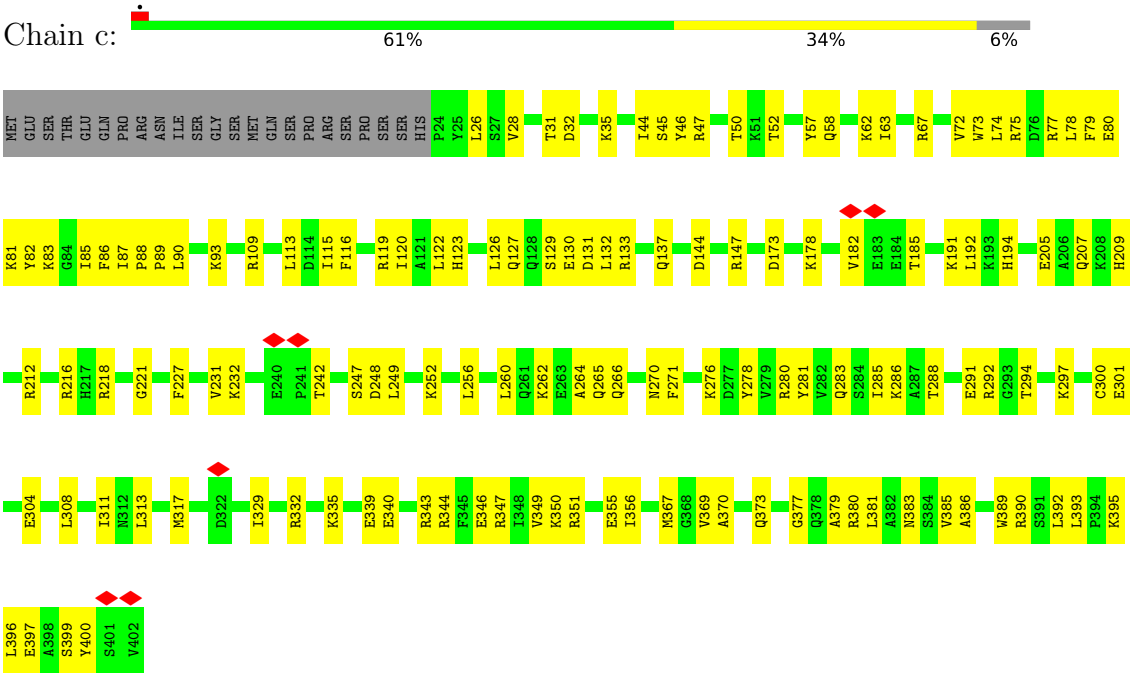
• Molecule 1: Sorting nexin 1

Chain b:



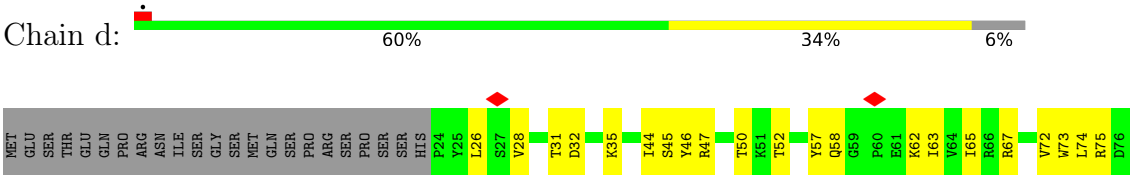
• Molecule 1: Sorting nexin 1

Chain c:



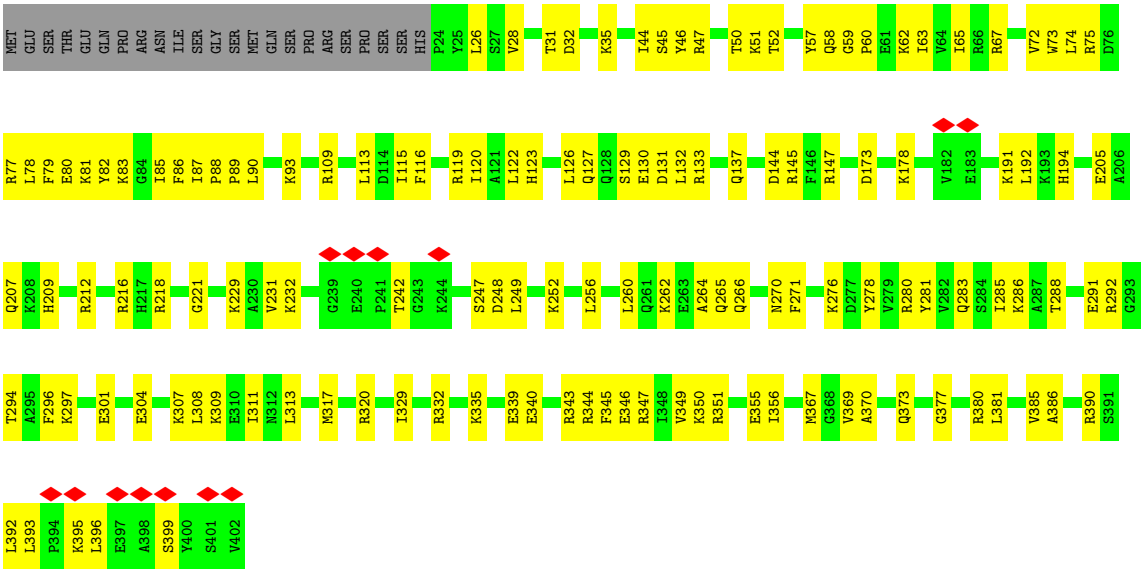
• Molecule 1: Sorting nexin 1

Chain d:



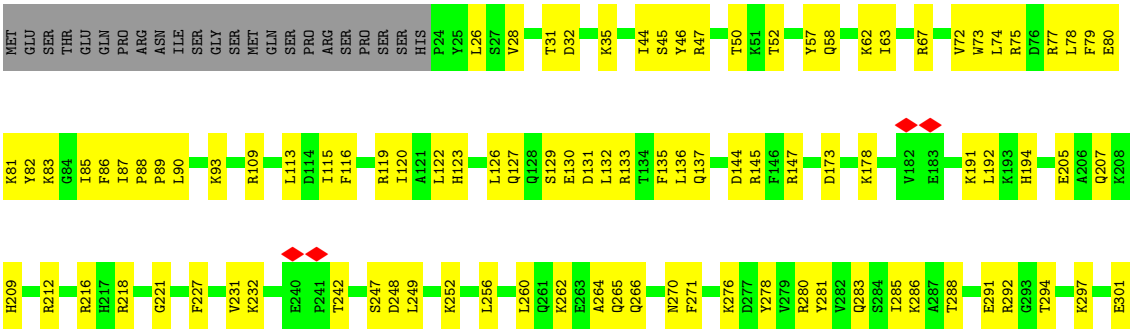
• Molecule 1: Sorting nexin 1

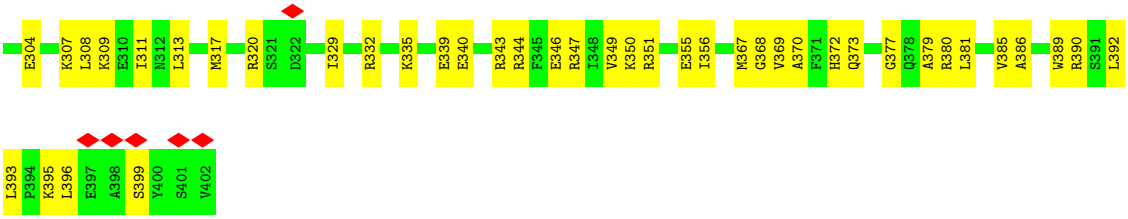
Chain e:



• Molecule 1: Sorting nexin 1

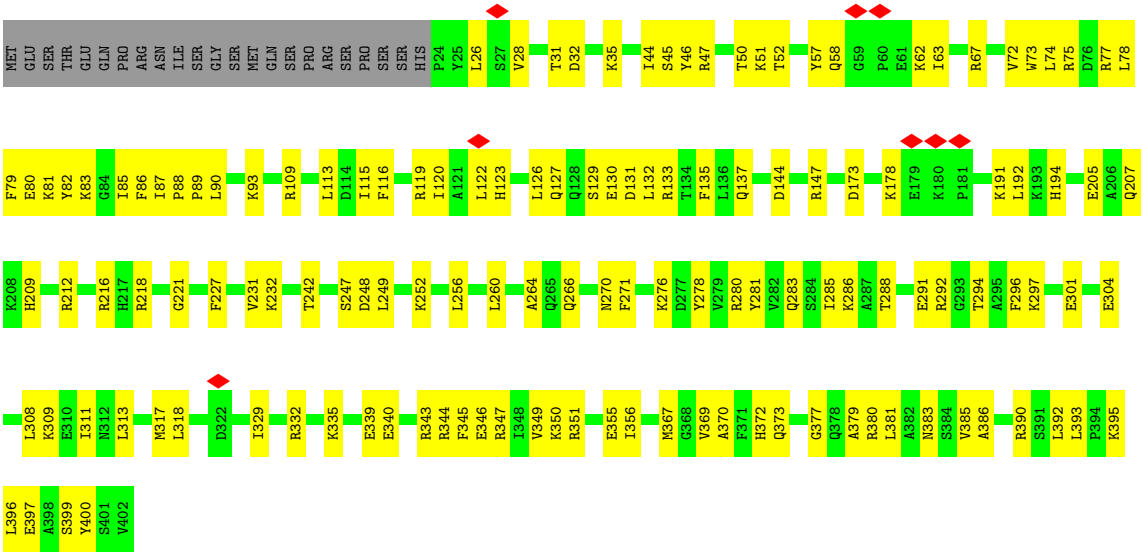
Chain f:





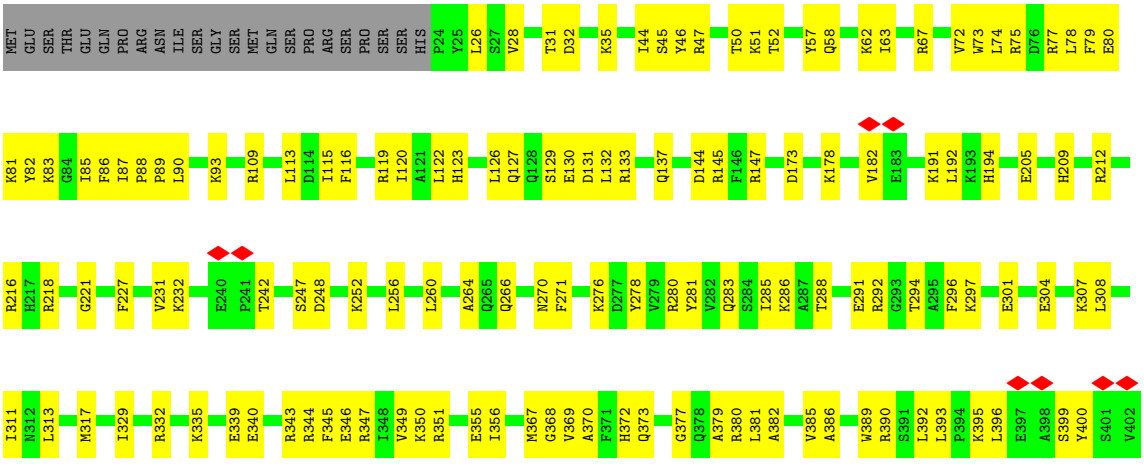
• Molecule 1: Sorting nexin 1

Chain g:



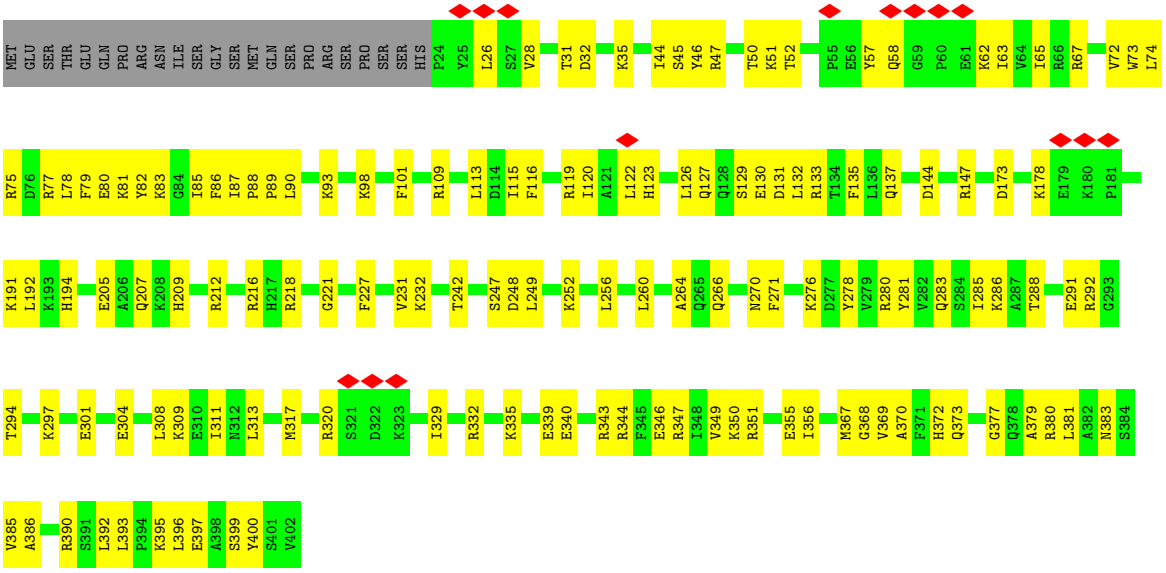
• Molecule 1: Sorting nexin 1

Chain h:



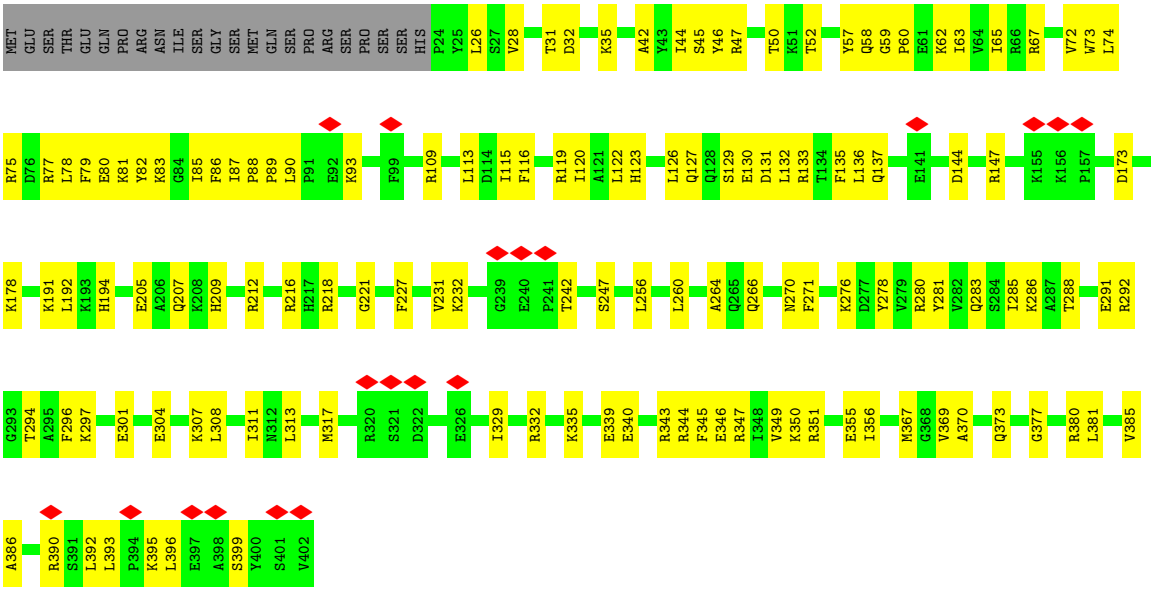
• Molecule 1: Sorting nexin 1

Chain i:



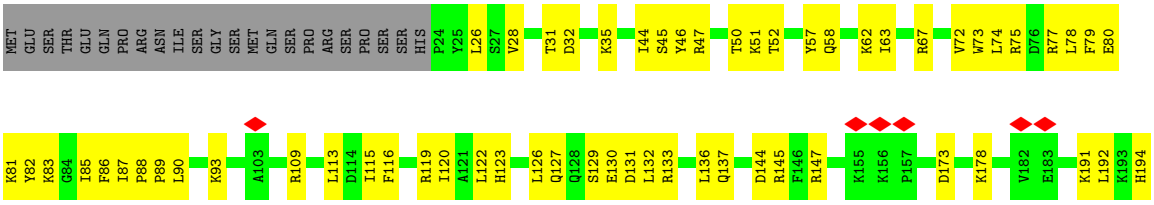
• Molecule 1: Sorting nexin 1

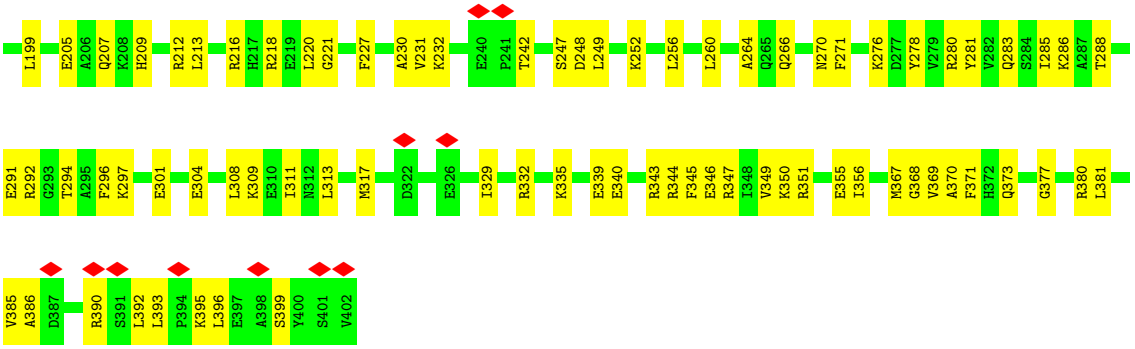
Chain j:



• Molecule 1: Sorting nexin 1

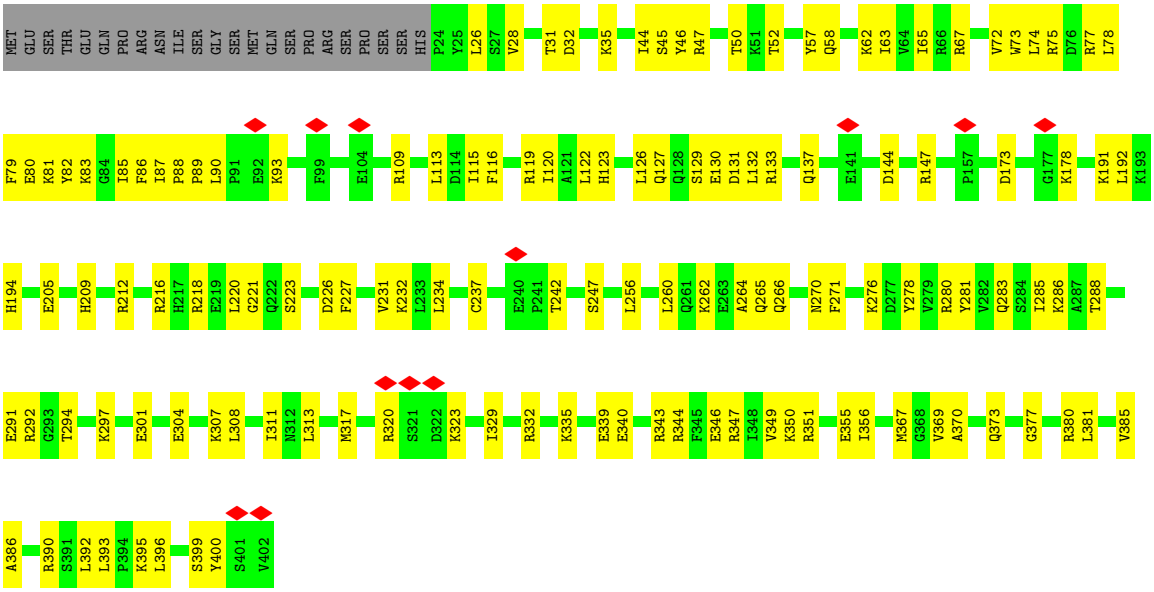
Chain k:





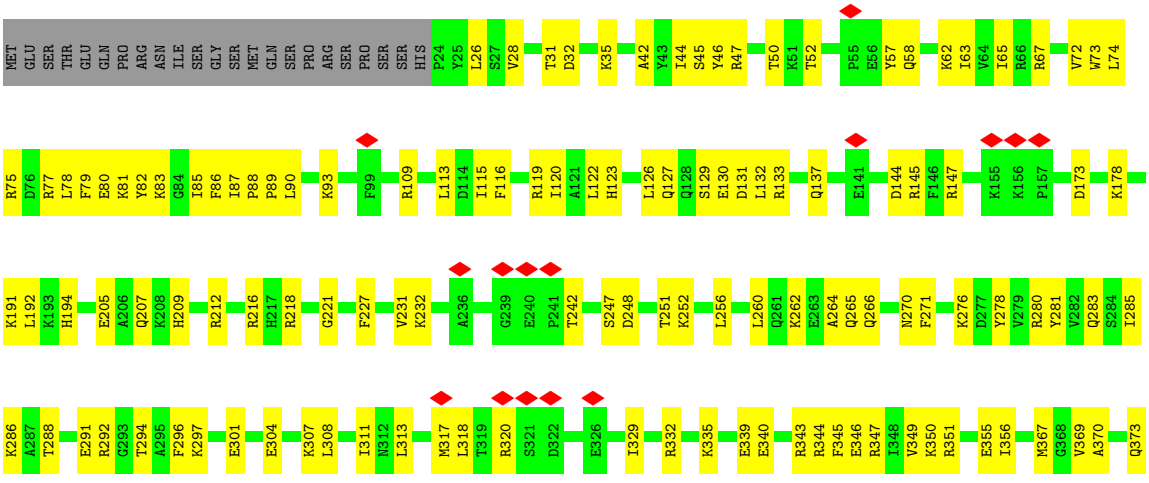
• Molecule 1: Sorting nexin 1

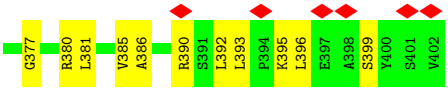
Chain l:



• Molecule 1: Sorting nexin 1

Chain m:





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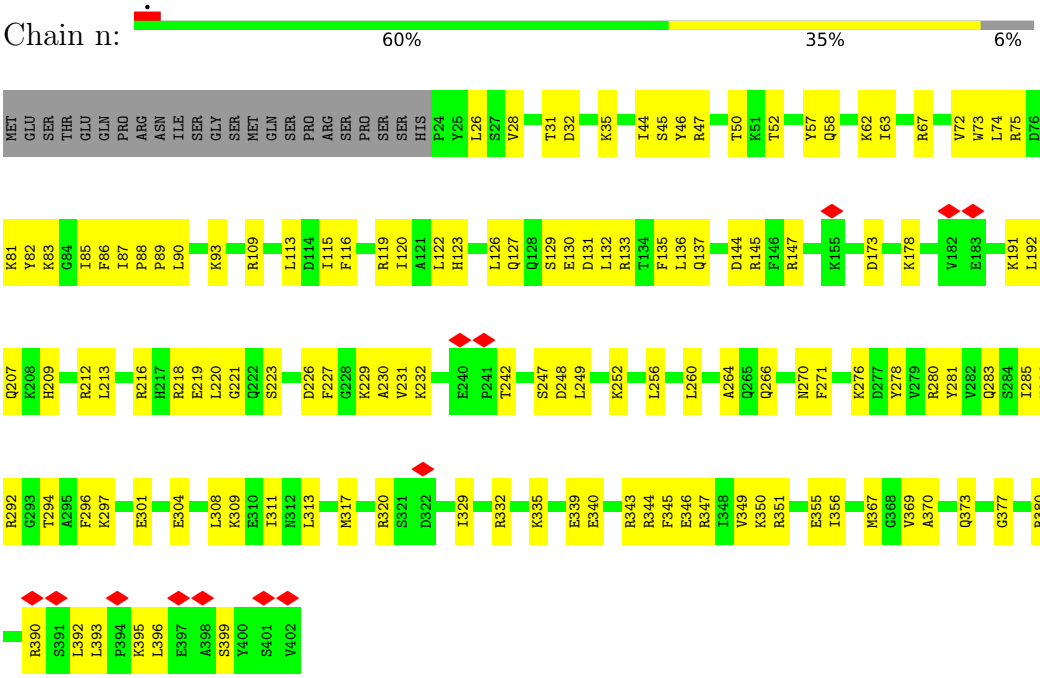

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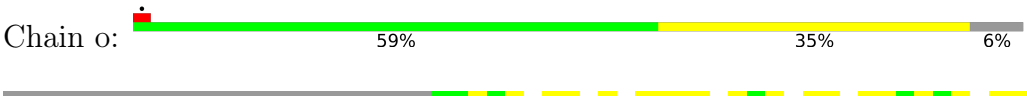

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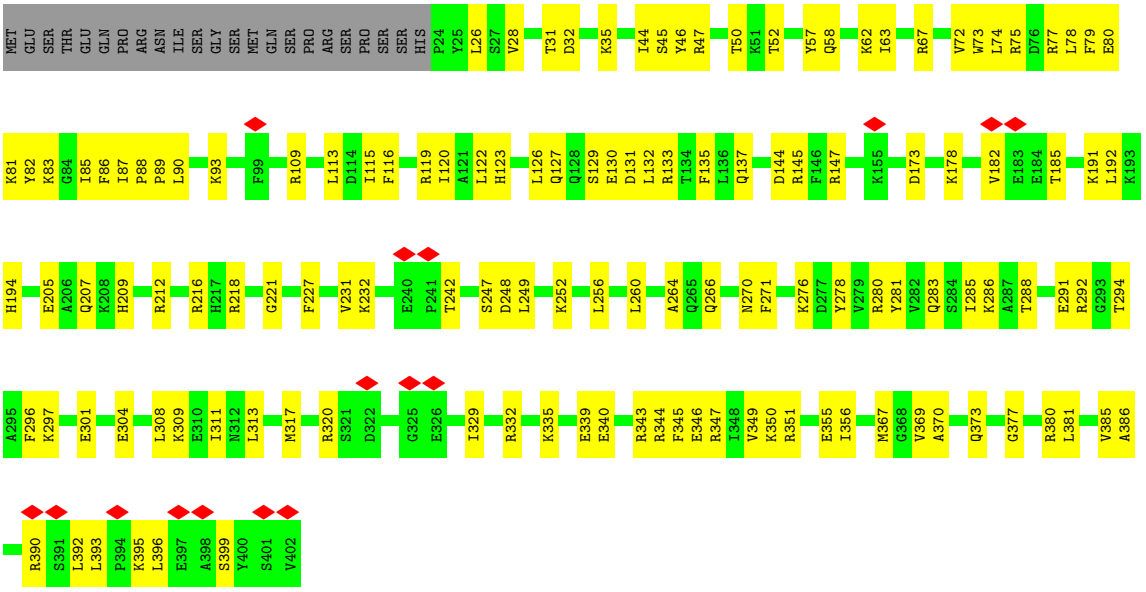

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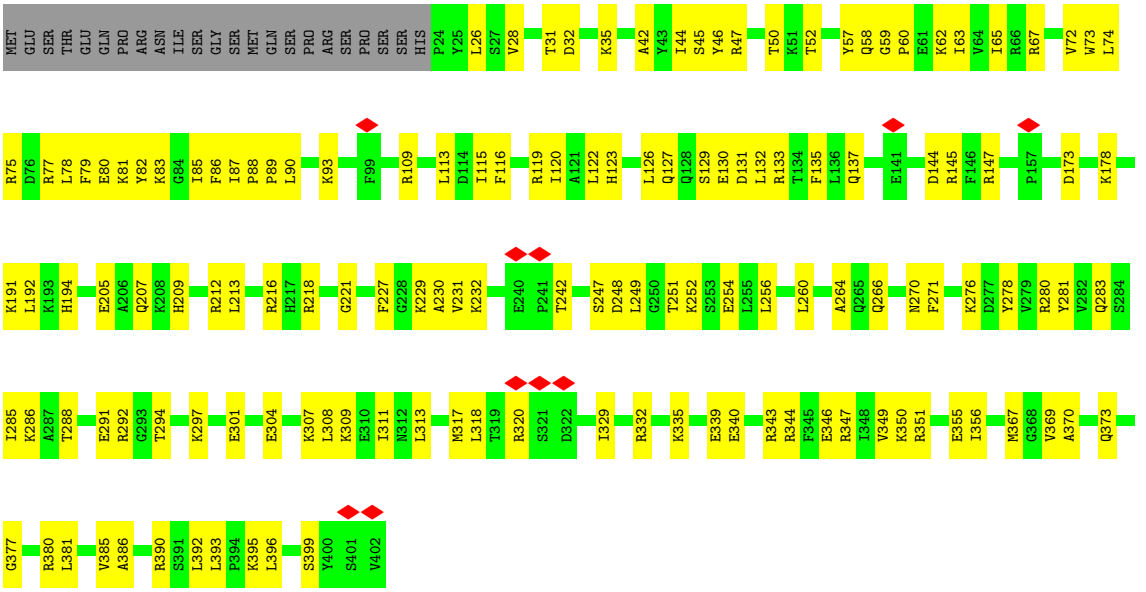
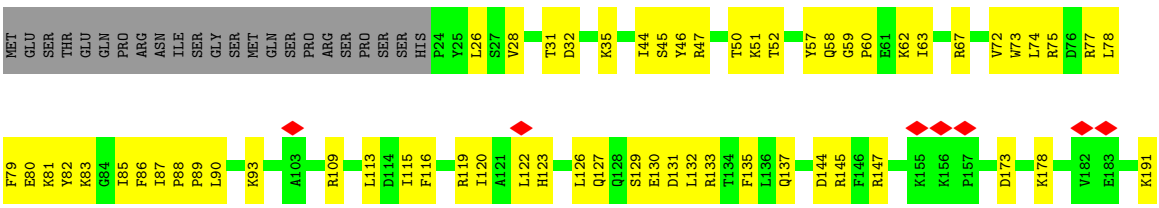
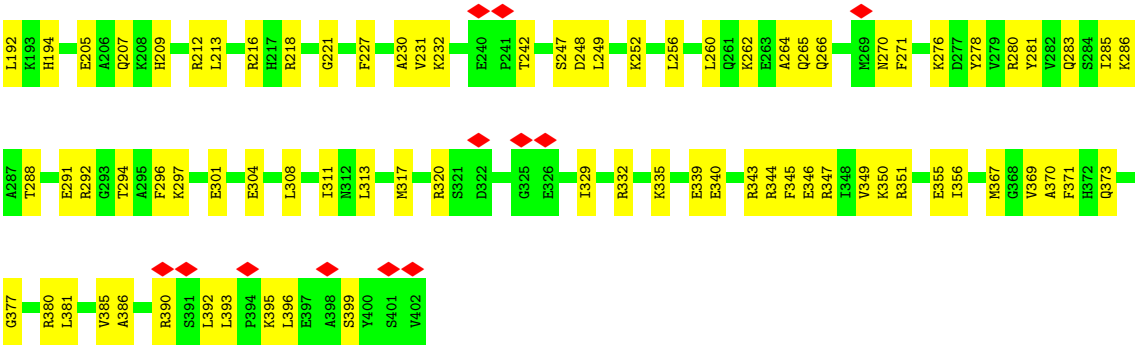


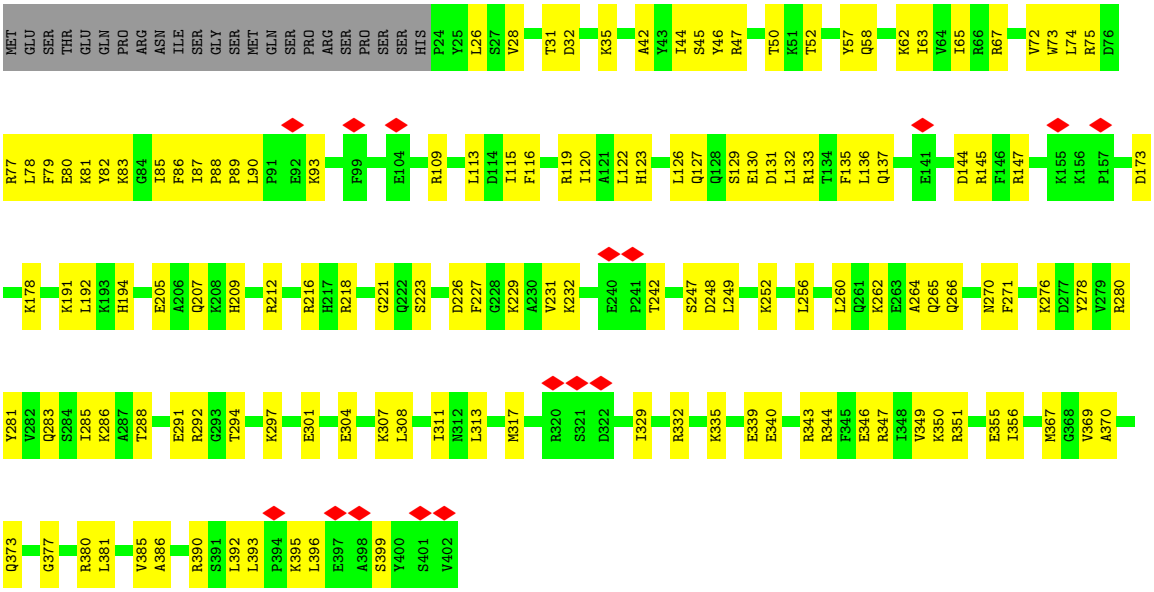
• Molecule 1: Sorting nexin 1





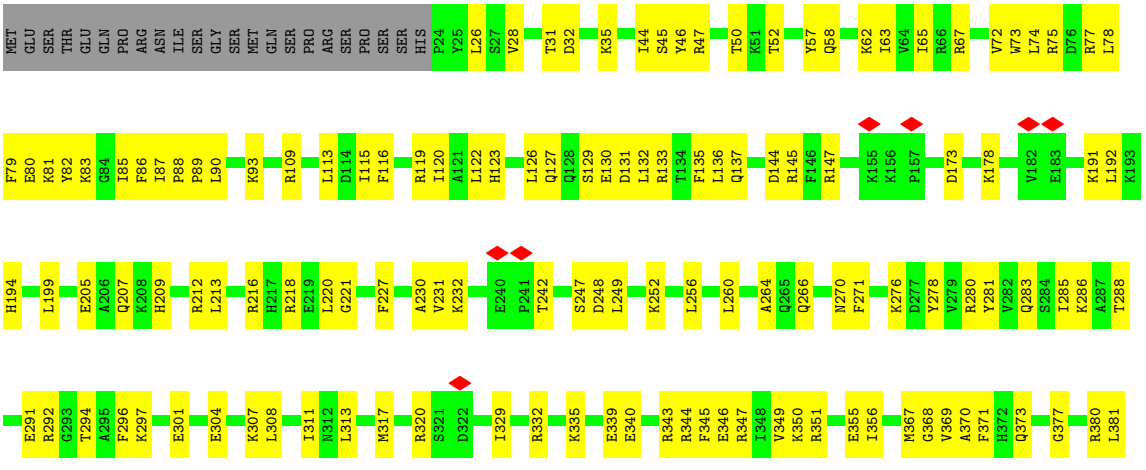
• Molecule 1: Sorting nexin 1

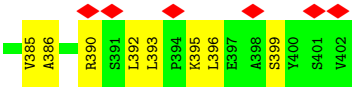
Chain s:



• Molecule 1: Sorting nexin 1

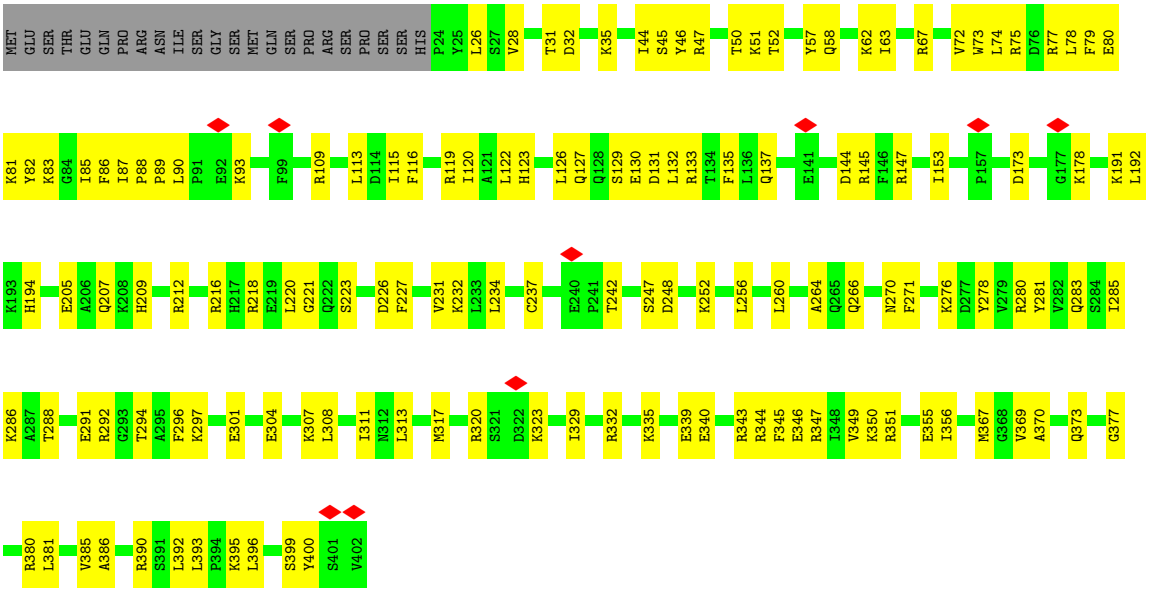
Chain t:





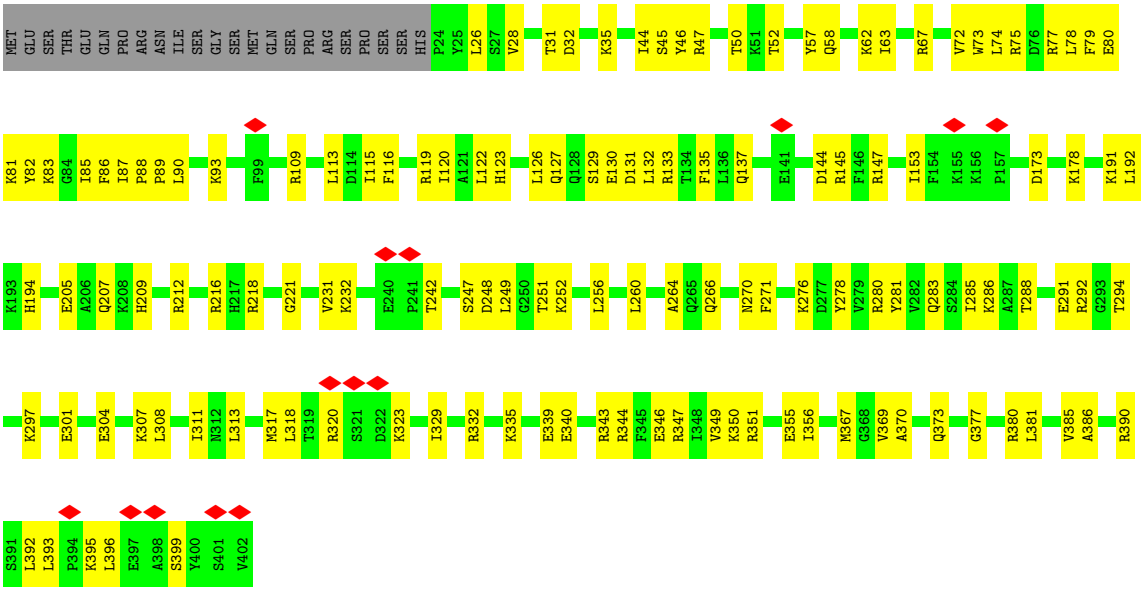
• Molecule 1: Sorting nexin 1

Chain u:



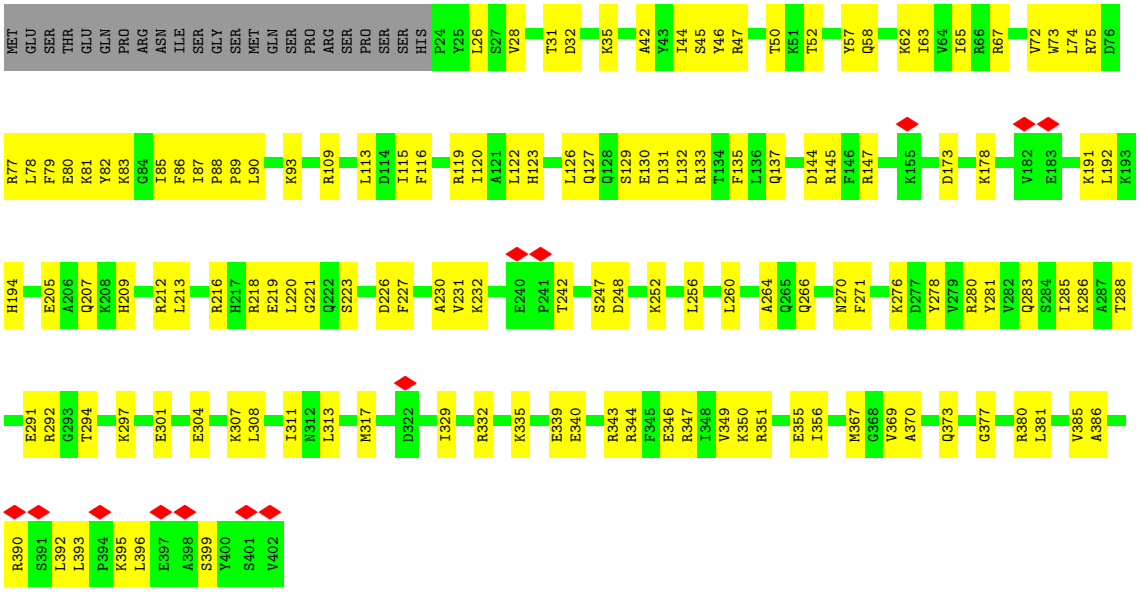
• Molecule 1: Sorting nexin 1

Chain v:



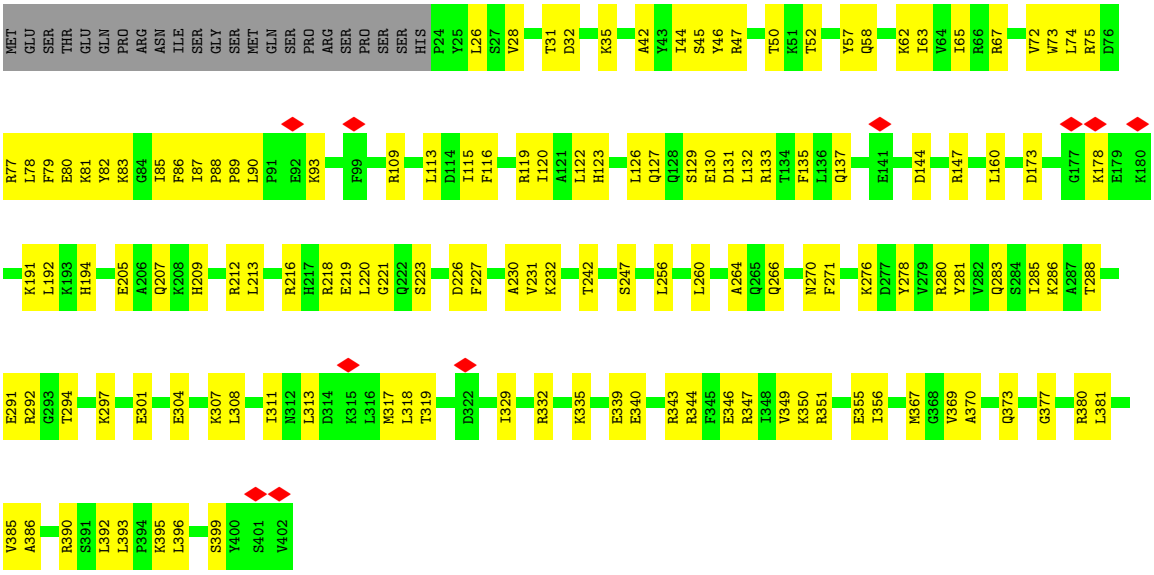
• Molecule 1: Sorting nexin 1

Chain w:



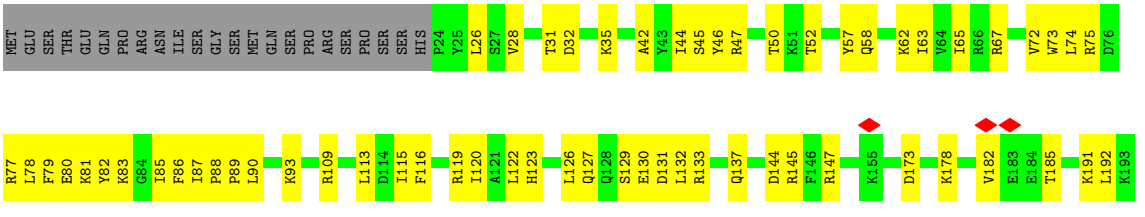
• Molecule 1: Sorting nexin 1

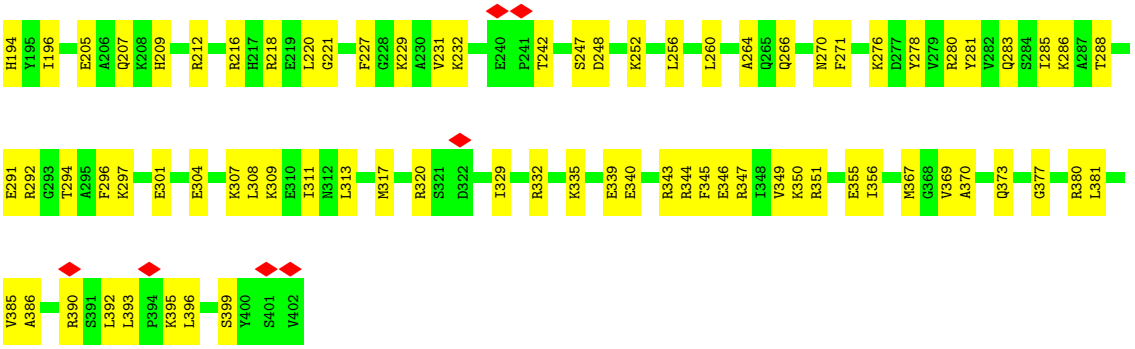
Chain x:



• Molecule 1: Sorting nexin 1

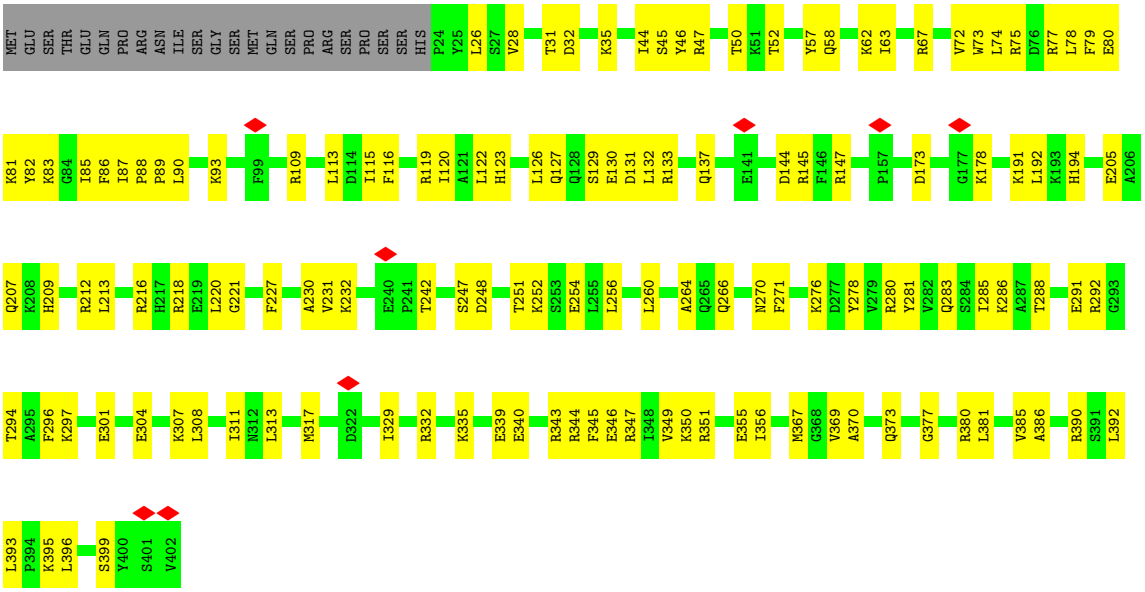
Chain y:





• Molecule 1: Sorting nexin 1

Chain z:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=-60.3°, rise=9.55 Å, axial sym=C1	Depositor
Number of segments used	20728	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
Maximum map value	0.254	Depositor
Minimum map value	-0.100	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.024	Depositor
Recommended contour level	0.07	Depositor
Map size (Å)	736.0, 736.0, 736.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.84, 1.84, 1.84	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	0.11	0/3159	0.29	0/4242
1	1	0.11	0/3159	0.29	0/4242
1	2	0.11	0/3159	0.29	0/4242
1	3	0.11	0/3159	0.29	0/4242
1	4	0.11	0/3159	0.29	0/4242
1	5	0.11	0/3159	0.29	0/4242
1	6	0.11	0/3159	0.29	0/4242
1	7	0.11	0/3159	0.29	0/4242
1	8	0.11	0/3159	0.29	0/4242
1	9	0.11	0/3159	0.29	0/4242
1	A	0.11	0/3159	0.29	0/4242
1	AA	0.11	0/3159	0.29	0/4242
1	AB	0.11	0/3159	0.29	0/4242
1	B	0.11	0/3159	0.29	0/4242
1	C	0.11	0/3159	0.29	0/4242
1	D	0.11	0/3159	0.29	0/4242
1	E	0.11	0/3159	0.29	0/4242
1	F	0.11	0/3159	0.29	0/4242
1	G	0.11	0/3159	0.29	0/4242
1	H	0.11	0/3159	0.29	0/4242
1	I	0.11	0/3159	0.29	0/4242
1	J	0.11	0/3159	0.29	0/4242
1	K	0.11	0/3159	0.29	0/4242
1	L	0.11	0/3159	0.29	0/4242
1	M	0.11	0/3159	0.29	0/4242
1	N	0.11	0/3159	0.29	0/4242
1	O	0.11	0/3159	0.29	0/4242
1	P	0.11	0/3159	0.29	0/4242
1	Q	0.11	0/3159	0.29	0/4242
1	R	0.11	0/3159	0.29	0/4242
1	S	0.11	0/3159	0.29	0/4242
1	T	0.11	0/3159	0.29	0/4242
1	U	0.11	0/3159	0.29	0/4242
1	V	0.11	0/3159	0.29	0/4242

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	W	0.11	0/3159	0.29	0/4242
1	X	0.11	0/3159	0.29	0/4242
1	Y	0.11	0/3159	0.29	0/4242
1	Z	0.11	0/3159	0.29	0/4242
1	a	0.11	0/3159	0.29	0/4242
1	b	0.11	0/3159	0.29	0/4242
1	c	0.11	0/3159	0.29	0/4242
1	d	0.11	0/3159	0.29	0/4242
1	e	0.11	0/3159	0.29	0/4242
1	f	0.11	0/3159	0.29	0/4242
1	g	0.11	0/3159	0.29	0/4242
1	h	0.11	0/3159	0.29	0/4242
1	i	0.11	0/3159	0.29	0/4242
1	j	0.11	0/3159	0.29	0/4242
1	k	0.11	0/3159	0.29	0/4242
1	l	0.11	0/3159	0.29	0/4242
1	m	0.11	0/3159	0.29	0/4242
1	n	0.11	0/3159	0.29	0/4242
1	o	0.11	0/3159	0.29	0/4242
1	p	0.11	0/3159	0.29	0/4242
1	q	0.11	0/3159	0.29	0/4242
1	r	0.11	0/3159	0.29	0/4242
1	s	0.11	0/3159	0.29	0/4242
1	t	0.11	0/3159	0.29	0/4242
1	u	0.11	0/3159	0.29	0/4242
1	v	0.11	0/3159	0.29	0/4242
1	w	0.11	0/3159	0.29	0/4242
1	x	0.11	0/3159	0.29	0/4242
1	y	0.11	0/3159	0.29	0/4242
1	z	0.11	0/3159	0.29	0/4242
All	All	0.11	0/202176	0.29	0/271488

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	101	0
1	1	3102	0	3129	98	0
1	2	3102	0	3129	100	0
1	3	3102	0	3129	106	0
1	4	3102	0	3129	98	0
1	5	3102	0	3129	106	0
1	6	3102	0	3129	109	0
1	7	3102	0	3129	91	0
1	8	3102	0	3129	100	0
1	9	3102	0	3129	89	0
1	A	3102	0	3129	106	0
1	AA	3102	0	3129	108	0
1	AB	3102	0	3129	98	0
1	B	3102	0	3129	107	0
1	C	3102	0	3129	99	0
1	D	3102	0	3129	96	0
1	E	3102	0	3129	102	0
1	F	3102	0	3129	98	0
1	G	3102	0	3129	96	0
1	H	3102	0	3129	100	0
1	I	3102	0	3129	109	0
1	J	3102	0	3129	109	0
1	K	3102	0	3129	95	0
1	L	3102	0	3129	93	0
1	M	3102	0	3129	96	0
1	N	3102	0	3129	101	0
1	O	3102	0	3129	97	0
1	P	3102	0	3129	97	0
1	Q	3102	0	3129	106	0
1	R	3102	0	3129	108	0
1	S	3102	0	3129	90	0
1	T	3102	0	3129	99	0
1	U	3102	0	3129	114	0
1	V	3102	0	3129	115	0
1	W	3102	0	3129	103	0
1	X	3102	0	3129	105	0
1	Y	3102	0	3129	93	0
1	Z	3102	0	3129	97	0
1	a	3102	0	3129	101	0
1	b	3102	0	3129	105	0
1	c	3102	0	3129	113	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	d	3102	0	3129	108	0
1	e	3102	0	3129	96	0
1	f	3102	0	3129	104	0
1	g	3102	0	3129	100	0
1	h	3102	0	3129	111	0
1	i	3102	0	3129	118	0
1	j	3102	0	3129	91	0
1	k	3102	0	3129	107	0
1	l	3102	0	3129	106	0
1	m	3102	0	3129	98	0
1	n	3102	0	3129	118	0
1	o	3102	0	3129	121	0
1	p	3102	0	3129	100	0
1	q	3102	0	3129	101	0
1	r	3102	0	3129	102	0
1	s	3102	0	3129	98	0
1	t	3102	0	3129	109	0
1	u	3102	0	3129	107	0
1	v	3102	0	3129	96	0
1	w	3102	0	3129	111	0
1	x	3102	0	3129	118	0
1	y	3102	0	3129	103	0
1	z	3102	0	3129	95	0
All	All	198528	0	200256	6191	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 16.

All (6191) 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:h:379:ALA:HB1	1:i:390:ARG:HH11	0.94	1.10
1:3:300:CYS:HB3	1:x:318:LEU:HD21	1.31	1.04
1:E:379:ALA:HB1	1:F:390:ARG:HH11	1.17	1.02
1:f:379:ALA:HB1	1:g:390:ARG:HH11	1.20	1.02
1:A:379:ALA:HB1	1:B:390:ARG:HH11	1.23	1.02
1:c:390:ARG:HH11	1:d:379:ALA:HB1	1.26	0.97
1:h:379:ALA:HB1	1:i:390:ARG:NH1	1.78	0.96
1:c:185:THR:OG1	1:o:320:ARG:HG3	1.66	0.96
1:A:185:THR:OG1	1:X:320:ARG:HG3	1.69	0.91
1:V:318:LEU:HD21	1:a:300:CYS:HB3	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:318:LEU:HD21	1:AB:300:CYS:HB3	1.54	0.88
1:v:318:LEU:HG	1:y:182:VAL:HG21	1.58	0.85
1:H:318:LEU:HG	1:K:182:VAL:HG21	1.58	0.85
1:T:318:LEU:HG	1:W:182:VAL:HG21	1.58	0.84
1:m:318:LEU:HG	1:p:182:VAL:HG21	1.59	0.84
1:I:101:PHE:CD2	1:i:98:LYS:HG3	2.14	0.82
1:0:182:VAL:HG21	1:8:318:LEU:HG	1.59	0.82
1:3:300:CYS:SG	1:x:318:LEU:HD11	2.20	0.81
1:L:339:GLU:HB3	1:L:343:ARG:HH12	1.46	0.81
1:M:339:GLU:HB3	1:M:343:ARG:HH12	1.46	0.81
1:O:339:GLU:HB3	1:O:343:ARG:HH12	1.46	0.81
1:AB:339:GLU:HB3	1:AB:343:ARG:HH12	1.46	0.81
1:h:339:GLU:HB3	1:h:343:ARG:HH12	1.46	0.81
1:F:339:GLU:HB3	1:F:343:ARG:HH12	1.46	0.81
1:W:339:GLU:HB3	1:W:343:ARG:HH12	1.46	0.81
1:b:339:GLU:HB3	1:b:343:ARG:HH12	1.46	0.81
1:0:339:GLU:HB3	1:0:343:ARG:HH12	1.46	0.81
1:4:339:GLU:HB3	1:4:343:ARG:HH12	1.46	0.81
1:J:339:GLU:HB3	1:J:343:ARG:HH12	1.46	0.81
1:U:339:GLU:HB3	1:U:343:ARG:HH12	1.46	0.81
1:r:339:GLU:HB3	1:r:343:ARG:HH12	1.46	0.81
1:x:339:GLU:HB3	1:x:343:ARG:HH12	1.46	0.81
1:y:339:GLU:HB3	1:y:343:ARG:HH12	1.46	0.81
1:5:339:GLU:HB3	1:5:343:ARG:HH12	1.46	0.81
1:9:339:GLU:HB3	1:9:343:ARG:HH12	1.46	0.81
1:AA:339:GLU:HB3	1:AA:343:ARG:HH12	1.46	0.81
1:H:339:GLU:HB3	1:H:343:ARG:HH12	1.46	0.81
1:Z:339:GLU:HB3	1:Z:343:ARG:HH12	1.46	0.81
1:I:339:GLU:HB3	1:I:343:ARG:HH12	1.46	0.81
1:p:339:GLU:HB3	1:p:343:ARG:HH12	1.46	0.81
1:a:339:GLU:HB3	1:a:343:ARG:HH12	1.46	0.81
1:e:339:GLU:HB3	1:e:343:ARG:HH12	1.46	0.81
1:2:339:GLU:HB3	1:2:343:ARG:HH12	1.46	0.80
1:3:339:GLU:HB3	1:3:343:ARG:HH12	1.46	0.80
1:z:339:GLU:HB3	1:z:343:ARG:HH12	1.46	0.80
1:8:339:GLU:HB3	1:8:343:ARG:HH12	1.46	0.80
1:C:339:GLU:HB3	1:C:343:ARG:HH12	1.46	0.80
1:E:339:GLU:HB3	1:E:343:ARG:HH12	1.46	0.80
1:I:390:ARG:HH11	1:J:379:ALA:HB1	1.46	0.80
1:N:339:GLU:HB3	1:N:343:ARG:HH12	1.46	0.80
1:k:339:GLU:HB3	1:k:343:ARG:HH12	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:339:GLU:HB3	1:w:343:ARG:HH12	1.46	0.80
1:X:339:GLU:HB3	1:X:343:ARG:HH12	1.46	0.80
1:t:339:GLU:HB3	1:t:343:ARG:HH12	1.46	0.80
1:u:339:GLU:HB3	1:u:343:ARG:HH12	1.46	0.80
1:V:339:GLU:HB3	1:V:343:ARG:HH12	1.46	0.80
1:n:339:GLU:HB3	1:n:343:ARG:HH12	1.46	0.80
1:Y:339:GLU:HB3	1:Y:343:ARG:HH12	1.46	0.80
1:B:339:GLU:HB3	1:B:343:ARG:HH12	1.46	0.80
1:P:339:GLU:HB3	1:P:343:ARG:HH12	1.46	0.80
1:R:339:GLU:HB3	1:R:343:ARG:HH12	1.46	0.80
1:c:339:GLU:HB3	1:c:343:ARG:HH12	1.46	0.80
1:6:339:GLU:HB3	1:6:343:ARG:HH12	1.46	0.80
1:A:339:GLU:HB3	1:A:343:ARG:HH12	1.46	0.80
1:g:339:GLU:HB3	1:g:343:ARG:HH12	1.46	0.80
1:7:339:GLU:HB3	1:7:343:ARG:HH12	1.46	0.79
1:D:339:GLU:HB3	1:D:343:ARG:HH12	1.46	0.79
1:S:339:GLU:HB3	1:S:343:ARG:HH12	1.46	0.79
1:T:339:GLU:HB3	1:T:343:ARG:HH12	1.46	0.79
1:G:339:GLU:HB3	1:G:343:ARG:HH12	1.46	0.79
1:i:339:GLU:HB3	1:i:343:ARG:HH12	1.46	0.79
1:K:339:GLU:HB3	1:K:343:ARG:HH12	1.46	0.79
1:1:339:GLU:HB3	1:1:343:ARG:HH12	1.46	0.79
1:f:339:GLU:HB3	1:f:343:ARG:HH12	1.46	0.79
1:o:339:GLU:HB3	1:o:343:ARG:HH12	1.46	0.79
1:d:339:GLU:HB3	1:d:343:ARG:HH12	1.46	0.79
1:l:339:GLU:HB3	1:l:343:ARG:HH12	1.46	0.79
1:j:339:GLU:HB3	1:j:343:ARG:HH12	1.46	0.79
1:s:339:GLU:HB3	1:s:343:ARG:HH12	1.46	0.79
1:v:339:GLU:HB3	1:v:343:ARG:HH12	1.46	0.79
1:Q:339:GLU:HB3	1:Q:343:ARG:HH12	1.46	0.79
1:I:379:ALA:HB1	1:J:390:ARG:HH11	1.48	0.78
1:n:220:LEU:HD22	1:o:220:LEU:HD22	1.66	0.78
1:q:339:GLU:HB3	1:q:343:ARG:HH12	1.46	0.78
1:U:220:LEU:HD22	1:V:220:LEU:HD22	1.66	0.78
1:m:339:GLU:HB3	1:m:343:ARG:HH12	1.46	0.78
1:w:220:LEU:HD22	1:x:220:LEU:HD22	1.66	0.77
1:h:368:GLY:HA2	1:i:400:TYR:CD2	2.19	0.77
1:c:300:CYS:HB3	1:o:318:LEU:HD21	1.65	0.77
1:h:379:ALA:CB	1:i:390:ARG:HH11	1.87	0.76
1:5:213:LEU:HD11	1:6:227:PHE:CG	2.20	0.76
1:5:230:ALA:HB2	1:6:209:HIS:CE1	2.22	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:213:LEU:HD11	1:u:227:PHE:CG	2.21	0.75
1:Q:230:ALA:HB2	1:R:209:HIS:CE1	2.22	0.75
1:k:213:LEU:HD11	1:l:227:PHE:CG	2.21	0.75
1:c:379:ALA:HB1	1:d:390:ARG:HH11	1.51	0.75
1:Q:213:LEU:HD11	1:R:227:PHE:CG	2.21	0.75
1:E:379:ALA:HB1	1:F:390:ARG:NH1	1.99	0.75
1:k:230:ALA:HB2	1:l:209:HIS:CE1	2.22	0.74
1:t:230:ALA:HB2	1:u:209:HIS:CE1	2.22	0.74
1:n:63:ILE:HD13	1:q:251:THR:HG23	1.69	0.74
1:U:63:ILE:HD13	1:X:251:THR:HG23	1.70	0.73
1:9:63:ILE:HD13	1:AA:251:THR:HG23	1.69	0.73
1:c:300:CYS:SG	1:o:318:LEU:HD11	2.29	0.73
1:w:63:ILE:HD13	1:z:251:THR:HG23	1.69	0.73
1:U:216:ARG:HD2	1:V:219:GLU:HB3	1.71	0.73
1:n:216:ARG:HD2	1:o:219:GLU:HB3	1.71	0.72
1:w:227:PHE:CG	1:x:213:LEU:HD11	2.26	0.71
1:0:339:GLU:HB3	1:0:343:ARG:NH1	2.06	0.71
1:9:339:GLU:HB3	1:9:343:ARG:NH1	2.06	0.71
1:A:339:GLU:HB3	1:A:343:ARG:NH1	2.06	0.71
1:AA:318:LEU:HD11	1:AB:300:CYS:SG	2.30	0.71
1:B:339:GLU:HB3	1:B:343:ARG:NH1	2.06	0.71
1:H:339:GLU:HB3	1:H:343:ARG:NH1	2.06	0.71
1:O:339:GLU:HB3	1:O:343:ARG:NH1	2.06	0.71
1:c:339:GLU:HB3	1:c:343:ARG:NH1	2.06	0.71
1:z:339:GLU:HB3	1:z:343:ARG:NH1	2.06	0.71
1:5:339:GLU:HB3	1:5:343:ARG:NH1	2.06	0.71
1:F:339:GLU:HB3	1:F:343:ARG:NH1	2.06	0.71
1:k:339:GLU:HB3	1:k:343:ARG:NH1	2.06	0.71
1:u:339:GLU:HB3	1:u:343:ARG:NH1	2.06	0.71
1:a:339:GLU:HB3	1:a:343:ARG:NH1	2.06	0.71
1:f:339:GLU:HB3	1:f:343:ARG:NH1	2.06	0.71
1:w:339:GLU:HB3	1:w:343:ARG:NH1	2.06	0.71
1:M:339:GLU:HB3	1:M:343:ARG:NH1	2.06	0.70
1:U:339:GLU:HB3	1:U:343:ARG:NH1	2.06	0.70
1:w:213:LEU:HD11	1:x:227:PHE:CG	2.26	0.70
1:y:339:GLU:HB3	1:y:343:ARG:NH1	2.06	0.70
1:K:339:GLU:HB3	1:K:343:ARG:NH1	2.06	0.70
1:L:339:GLU:HB3	1:L:343:ARG:NH1	2.06	0.70
1:g:339:GLU:HB3	1:g:343:ARG:NH1	2.06	0.70
1:v:318:LEU:HG	1:y:182:VAL:CG2	2.21	0.70
1:AB:339:GLU:HB3	1:AB:343:ARG:NH1	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:339:GLU:HB3	1:E:343:ARG:NH1	2.06	0.70
1:G:339:GLU:HB3	1:G:343:ARG:NH1	2.06	0.70
1:Y:339:GLU:HB3	1:Y:343:ARG:NH1	2.06	0.70
1:C:339:GLU:HB3	1:C:343:ARG:NH1	2.06	0.70
1:P:339:GLU:HB3	1:P:343:ARG:NH1	2.06	0.70
1:U:227:PHE:CG	1:V:213:LEU:HD11	2.26	0.70
1:v:339:GLU:HB3	1:v:343:ARG:NH1	2.06	0.70
1:7:339:GLU:HB3	1:7:343:ARG:NH1	2.06	0.70
1:S:339:GLU:HB3	1:S:343:ARG:NH1	2.06	0.70
1:W:339:GLU:HB3	1:W:343:ARG:NH1	2.06	0.70
1:p:339:GLU:HB3	1:p:343:ARG:NH1	2.06	0.70
1:w:219:GLU:HB3	1:x:216:ARG:HD2	1.72	0.70
1:x:339:GLU:HB3	1:x:343:ARG:NH1	2.06	0.70
1:H:318:LEU:HG	1:K:182:VAL:CG2	2.22	0.70
1:J:339:GLU:HB3	1:J:343:ARG:NH1	2.06	0.70
1:d:339:GLU:HB3	1:d:343:ARG:NH1	2.06	0.70
1:h:390:ARG:HH11	1:i:379:ALA:HB1	1.57	0.70
1:i:339:GLU:HB3	1:i:343:ARG:NH1	2.06	0.70
1:j:339:GLU:HB3	1:j:343:ARG:NH1	2.06	0.70
1:t:339:GLU:HB3	1:t:343:ARG:NH1	2.06	0.70
1:w:216:ARG:HD2	1:x:219:GLU:HB3	1.71	0.70
1:3:339:GLU:HB3	1:3:343:ARG:NH1	2.06	0.70
1:V:339:GLU:HB3	1:V:343:ARG:NH1	2.06	0.70
1:Z:339:GLU:HB3	1:Z:343:ARG:NH1	2.06	0.70
1:h:339:GLU:HB3	1:h:343:ARG:NH1	2.06	0.70
1:U:213:LEU:HD11	1:V:227:PHE:CG	2.27	0.70
1:b:339:GLU:HB3	1:b:343:ARG:NH1	2.06	0.70
1:n:213:LEU:HD11	1:o:227:PHE:CG	2.26	0.70
1:1:339:GLU:HB3	1:1:343:ARG:NH1	2.06	0.70
1:D:339:GLU:HB3	1:D:343:ARG:NH1	2.06	0.70
1:r:339:GLU:HB3	1:r:343:ARG:NH1	2.06	0.70
1:AA:339:GLU:HB3	1:AA:343:ARG:NH1	2.06	0.69
1:e:339:GLU:HB3	1:e:343:ARG:NH1	2.06	0.69
1:l:339:GLU:HB3	1:l:343:ARG:NH1	2.06	0.69
1:2:339:GLU:HB3	1:2:343:ARG:NH1	2.06	0.69
1:I:339:GLU:HB3	1:I:343:ARG:NH1	2.06	0.69
1:m:339:GLU:HB3	1:m:343:ARG:NH1	2.06	0.69
1:Q:339:GLU:HB3	1:Q:343:ARG:NH1	2.06	0.69
1:T:339:GLU:HB3	1:T:343:ARG:NH1	2.06	0.69
1:n:227:PHE:CG	1:o:213:LEU:HD11	2.26	0.69
1:U:219:GLU:HB3	1:V:216:ARG:HD2	1.72	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:339:GLU:HB3	1:n:343:ARG:NH1	2.06	0.69
1:4:339:GLU:HB3	1:4:343:ARG:NH1	2.06	0.69
1:6:339:GLU:HB3	1:6:343:ARG:NH1	2.06	0.69
1:N:339:GLU:HB3	1:N:343:ARG:NH1	2.06	0.69
1:X:339:GLU:HB3	1:X:343:ARG:NH1	2.06	0.69
1:8:339:GLU:HB3	1:8:343:ARG:NH1	2.06	0.69
1:s:339:GLU:HB3	1:s:343:ARG:NH1	2.06	0.69
1:9:123:HIS:HB3	1:9:126:LEU:HB2	1.75	0.69
1:D:123:HIS:HB3	1:D:126:LEU:HB2	1.75	0.69
1:G:123:HIS:HB3	1:G:126:LEU:HB2	1.75	0.69
1:J:123:HIS:HB3	1:J:126:LEU:HB2	1.75	0.69
1:O:123:HIS:HB3	1:O:126:LEU:HB2	1.75	0.69
1:R:339:GLU:HB3	1:R:343:ARG:NH1	2.06	0.69
1:Y:123:HIS:HB3	1:Y:126:LEU:HB2	1.75	0.69
1:h:123:HIS:HB3	1:h:126:LEU:HB2	1.75	0.69
1:n:219:GLU:HB3	1:o:216:ARG:HD2	1.72	0.69
1:u:123:HIS:HB3	1:u:126:LEU:HB2	1.75	0.69
1:0:123:HIS:HB3	1:0:126:LEU:HB2	1.75	0.69
1:0:182:VAL:CG2	1:8:318:LEU:HG	2.22	0.69
1:1:123:HIS:HB3	1:1:126:LEU:HB2	1.75	0.69
1:H:123:HIS:HB3	1:H:126:LEU:HB2	1.75	0.69
1:L:123:HIS:HB3	1:L:126:LEU:HB2	1.75	0.69
1:M:123:HIS:HB3	1:M:126:LEU:HB2	1.75	0.69
1:U:123:HIS:HB3	1:U:126:LEU:HB2	1.75	0.69
1:X:123:HIS:HB3	1:X:126:LEU:HB2	1.75	0.69
1:a:123:HIS:HB3	1:a:126:LEU:HB2	1.75	0.69
1:o:339:GLU:HB3	1:o:343:ARG:NH1	2.06	0.69
1:q:123:HIS:HB3	1:q:126:LEU:HB2	1.75	0.69
1:q:339:GLU:HB3	1:q:343:ARG:NH1	2.06	0.69
1:s:123:HIS:HB3	1:s:126:LEU:HB2	1.75	0.69
1:t:123:HIS:HB3	1:t:126:LEU:HB2	1.75	0.69
1:v:123:HIS:HB3	1:v:126:LEU:HB2	1.75	0.69
1:5:123:HIS:HB3	1:5:126:LEU:HB2	1.75	0.69
1:AB:123:HIS:HB3	1:AB:126:LEU:HB2	1.75	0.69
1:I:123:HIS:HB3	1:I:126:LEU:HB2	1.75	0.69
1:f:123:HIS:HB3	1:f:126:LEU:HB2	1.75	0.69
1:z:123:HIS:HB3	1:z:126:LEU:HB2	1.75	0.69
1:Q:31:THR:HG22	1:Q:32:ASP:H	1.59	0.68
1:b:123:HIS:HB3	1:b:126:LEU:HB2	1.75	0.68
1:n:123:HIS:HB3	1:n:126:LEU:HB2	1.75	0.68
1:p:123:HIS:HB3	1:p:126:LEU:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:123:HIS:HB3	1:r:126:LEU:HB2	1.75	0.68
1:3:123:HIS:HB3	1:3:126:LEU:HB2	1.75	0.68
1:7:123:HIS:HB3	1:7:126:LEU:HB2	1.75	0.68
1:C:123:HIS:HB3	1:C:126:LEU:HB2	1.75	0.68
1:K:209:HIS:CE1	1:L:230:ALA:HB2	2.28	0.68
1:T:318:LEU:HG	1:W:182:VAL:CG2	2.22	0.68
1:k:123:HIS:HB3	1:k:126:LEU:HB2	1.75	0.68
1:t:209:HIS:CD2	1:u:226:ASP:OD2	2.46	0.68
1:0:209:HIS:CE1	1:AA:230:ALA:HB2	2.29	0.68
1:A:123:HIS:HB3	1:A:126:LEU:HB2	1.75	0.68
1:E:123:HIS:HB3	1:E:126:LEU:HB2	1.75	0.68
1:K:123:HIS:HB3	1:K:126:LEU:HB2	1.75	0.68
1:M:31:THR:HG22	1:M:32:ASP:H	1.59	0.68
1:O:31:THR:HG22	1:O:32:ASP:H	1.59	0.68
1:Q:209:HIS:CD2	1:R:226:ASP:OD2	2.46	0.68
1:p:209:HIS:CE1	1:q:230:ALA:HB2	2.28	0.68
1:0:31:THR:HG22	1:0:32:ASP:H	1.59	0.68
1:7:31:THR:HG22	1:7:32:ASP:H	1.59	0.68
1:A:31:THR:HG22	1:A:32:ASP:H	1.59	0.68
1:AA:123:HIS:HB3	1:AA:126:LEU:HB2	1.75	0.68
1:Q:123:HIS:HB3	1:Q:126:LEU:HB2	1.75	0.68
1:S:123:HIS:HB3	1:S:126:LEU:HB2	1.75	0.68
1:W:123:HIS:HB3	1:W:126:LEU:HB2	1.75	0.68
1:c:31:THR:HG22	1:c:32:ASP:H	1.59	0.68
1:e:123:HIS:HB3	1:e:126:LEU:HB2	1.75	0.68
1:m:318:LEU:HG	1:p:182:VAL:CG2	2.22	0.68
1:9:31:THR:HG22	1:9:32:ASP:H	1.59	0.68
1:AB:31:THR:HG22	1:AB:32:ASP:H	1.59	0.68
1:c:123:HIS:HB3	1:c:126:LEU:HB2	1.75	0.68
1:3:31:THR:HG22	1:3:32:ASP:H	1.59	0.68
1:5:31:THR:HG22	1:5:32:ASP:H	1.59	0.68
1:H:31:THR:HG22	1:H:32:ASP:H	1.59	0.68
1:k:209:HIS:CD2	1:l:226:ASP:OD2	2.46	0.68
1:B:31:THR:HG22	1:B:32:ASP:H	1.59	0.68
1:U:31:THR:HG22	1:U:32:ASP:H	1.59	0.68
1:v:31:THR:HG22	1:v:32:ASP:H	1.59	0.68
1:z:31:THR:HG22	1:z:32:ASP:H	1.59	0.68
1:4:123:HIS:HB3	1:4:126:LEU:HB2	1.75	0.68
1:S:31:THR:HG22	1:S:32:ASP:H	1.59	0.68
1:a:31:THR:HG22	1:a:32:ASP:H	1.59	0.68
1:x:123:HIS:HB3	1:x:126:LEU:HB2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:123:HIS:HB3	1:y:126:LEU:HB2	1.75	0.68
1:F:31:THR:HG22	1:F:32:ASP:H	1.59	0.68
1:P:123:HIS:HB3	1:P:126:LEU:HB2	1.75	0.68
1:W:209:HIS:CE1	1:X:230:ALA:HB2	2.28	0.68
1:m:123:HIS:HB3	1:m:126:LEU:HB2	1.75	0.68
1:w:123:HIS:HB3	1:w:126:LEU:HB2	1.75	0.68
1:8:123:HIS:HB3	1:8:126:LEU:HB2	1.75	0.68
1:Y:31:THR:HG22	1:Y:32:ASP:H	1.59	0.68
1:i:123:HIS:HB3	1:i:126:LEU:HB2	1.75	0.68
1:5:199:LEU:HD13	1:6:237:CYS:SG	2.35	0.67
1:Z:123:HIS:HB3	1:Z:126:LEU:HB2	1.75	0.67
1:f:31:THR:HG22	1:f:32:ASP:H	1.59	0.67
1:k:31:THR:HG22	1:k:32:ASP:H	1.59	0.67
1:L:31:THR:HG22	1:L:32:ASP:H	1.59	0.67
1:W:31:THR:HG22	1:W:32:ASP:H	1.59	0.67
1:i:31:THR:HG22	1:i:32:ASP:H	1.59	0.67
1:o:123:HIS:HB3	1:o:126:LEU:HB2	1.75	0.67
1:t:199:LEU:HD13	1:u:237:CYS:SG	2.34	0.67
1:1:31:THR:HG22	1:1:32:ASP:H	1.59	0.67
1:C:31:THR:HG22	1:C:32:ASP:H	1.59	0.67
1:F:123:HIS:HB3	1:F:126:LEU:HB2	1.75	0.67
1:V:31:THR:HG22	1:V:32:ASP:H	1.59	0.67
1:g:31:THR:HG22	1:g:32:ASP:H	1.59	0.67
1:k:199:LEU:HD13	1:l:237:CYS:SG	2.35	0.67
1:u:31:THR:HG22	1:u:32:ASP:H	1.59	0.67
1:y:31:THR:HG22	1:y:32:ASP:H	1.59	0.67
1:y:209:HIS:CE1	1:z:230:ALA:HB2	2.28	0.67
1:B:123:HIS:HB3	1:B:126:LEU:HB2	1.75	0.67
1:Q:199:LEU:HD13	1:R:237:CYS:SG	2.35	0.67
1:V:318:LEU:HD11	1:a:300:CYS:SG	2.35	0.67
1:N:123:HIS:HB3	1:N:126:LEU:HB2	1.75	0.67
1:T:123:HIS:HB3	1:T:126:LEU:HB2	1.75	0.67
1:V:123:HIS:HB3	1:V:126:LEU:HB2	1.75	0.67
1:G:31:THR:HG22	1:G:32:ASP:H	1.59	0.67
1:t:371:PHE:CE1	1:u:231:VAL:HG22	2.30	0.67
1:2:123:HIS:HB3	1:2:126:LEU:HB2	1.75	0.67
1:5:209:HIS:CD2	1:6:226:ASP:OD2	2.47	0.67
1:6:31:THR:HG22	1:6:32:ASP:H	1.59	0.67
1:6:123:HIS:HB3	1:6:126:LEU:HB2	1.75	0.67
1:M:85:ILE:HA	1:M:355:GLU:HG3	1.77	0.67
1:O:85:ILE:HA	1:O:355:GLU:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:31:THR:HG22	1:R:32:ASP:H	1.59	0.67
1:l:123:HIS:HB3	1:l:126:LEU:HB2	1.75	0.67
1:8:31:THR:HG22	1:8:32:ASP:H	1.59	0.67
1:9:85:ILE:HA	1:9:355:GLU:HG3	1.77	0.67
1:A:85:ILE:HA	1:A:355:GLU:HG3	1.77	0.67
1:E:31:THR:HG22	1:E:32:ASP:H	1.59	0.67
1:F:85:ILE:HA	1:F:355:GLU:HG3	1.77	0.67
1:I:85:ILE:HA	1:I:355:GLU:HG3	1.77	0.67
1:c:85:ILE:HA	1:c:355:GLU:HG3	1.77	0.67
1:h:85:ILE:HA	1:h:355:GLU:HG3	1.77	0.67
1:r:31:THR:HG22	1:r:32:ASP:H	1.59	0.67
1:3:344:ARG:HD3	1:3:347:ARG:HH21	1.60	0.67
1:5:344:ARG:HD3	1:5:347:ARG:HH21	1.60	0.67
1:R:123:HIS:HB3	1:R:126:LEU:HB2	1.75	0.67
1:g:123:HIS:HB3	1:g:126:LEU:HB2	1.75	0.67
1:k:85:ILE:HA	1:k:355:GLU:HG3	1.77	0.67
1:y:344:ARG:HD3	1:y:347:ARG:HH21	1.60	0.67
1:0:85:ILE:HA	1:0:355:GLU:HG3	1.77	0.67
1:4:31:THR:HG22	1:4:32:ASP:H	1.59	0.67
1:F:344:ARG:HD3	1:F:347:ARG:HH21	1.60	0.67
1:N:31:THR:HG22	1:N:32:ASP:H	1.59	0.67
1:d:31:THR:HG22	1:d:32:ASP:H	1.59	0.67
1:j:123:HIS:HB3	1:j:126:LEU:HB2	1.75	0.67
1:p:31:THR:HG22	1:p:32:ASP:H	1.59	0.67
1:w:31:THR:HG22	1:w:32:ASP:H	1.59	0.67
1:1:344:ARG:HD3	1:1:347:ARG:HH21	1.60	0.66
1:3:85:ILE:HA	1:3:355:GLU:HG3	1.77	0.66
1:B:344:ARG:HD3	1:B:347:ARG:HH21	1.60	0.66
1:I:31:THR:HG22	1:I:32:ASP:H	1.59	0.66
1:L:85:ILE:HA	1:L:355:GLU:HG3	1.77	0.66
1:M:344:ARG:HD3	1:M:347:ARG:HH21	1.60	0.66
1:d:123:HIS:HB3	1:d:126:LEU:HB2	1.75	0.66
1:e:31:THR:HG22	1:e:32:ASP:H	1.59	0.66
1:i:344:ARG:HD3	1:i:347:ARG:HH21	1.60	0.66
1:n:31:THR:HG22	1:n:32:ASP:H	1.59	0.66
1:t:31:THR:HG22	1:t:32:ASP:H	1.59	0.66
1:4:344:ARG:HD3	1:4:347:ARG:HH21	1.60	0.66
1:7:344:ARG:HD3	1:7:347:ARG:HH21	1.60	0.66
1:K:31:THR:HG22	1:K:32:ASP:H	1.59	0.66
1:a:85:ILE:HA	1:a:355:GLU:HG3	1.77	0.66
1:g:85:ILE:HA	1:g:355:GLU:HG3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:371:PHE:CE1	1:l:231:VAL:HG22	2.30	0.66
1:z:85:ILE:HA	1:z:355:GLU:HG3	1.77	0.66
1:z:344:ARG:HD3	1:z:347:ARG:HH21	1.60	0.66
1:9:344:ARG:HD3	1:9:347:ARG:HH21	1.60	0.66
1:AA:31:THR:HG22	1:AA:32:ASP:H	1.59	0.66
1:N:344:ARG:HD3	1:N:347:ARG:HH21	1.60	0.66
1:S:85:ILE:HA	1:S:355:GLU:HG3	1.77	0.66
1:b:31:THR:HG22	1:b:32:ASP:H	1.59	0.66
1:w:344:ARG:HD3	1:w:347:ARG:HH21	1.60	0.66
1:x:31:THR:HG22	1:x:32:ASP:H	1.59	0.66
1:O:344:ARG:HD3	1:O:347:ARG:HH21	1.60	0.66
1:T:31:THR:HG22	1:T:32:ASP:H	1.59	0.66
1:U:85:ILE:HA	1:U:355:GLU:HG3	1.77	0.66
1:d:344:ARG:HD3	1:d:347:ARG:HH21	1.60	0.66
1:i:85:ILE:HA	1:i:355:GLU:HG3	1.77	0.66
1:j:31:THR:HG22	1:j:32:ASP:H	1.59	0.66
1:m:31:THR:HG22	1:m:32:ASP:H	1.59	0.66
1:o:31:THR:HG22	1:o:32:ASP:H	1.59	0.66
1:o:85:ILE:HA	1:o:355:GLU:HG3	1.77	0.66
1:1:85:ILE:HA	1:1:355:GLU:HG3	1.77	0.66
1:AB:85:ILE:HA	1:AB:355:GLU:HG3	1.77	0.66
1:C:85:ILE:HA	1:C:355:GLU:HG3	1.77	0.66
1:D:31:THR:HG22	1:D:32:ASP:H	1.59	0.66
1:J:31:THR:HG22	1:J:32:ASP:H	1.59	0.66
1:P:31:THR:HG22	1:P:32:ASP:H	1.59	0.66
1:V:85:ILE:HA	1:V:355:GLU:HG3	1.77	0.66
1:l:31:THR:HG22	1:l:32:ASP:H	1.59	0.66
1:B:85:ILE:HA	1:B:355:GLU:HG3	1.77	0.66
1:J:85:ILE:HA	1:J:355:GLU:HG3	1.77	0.66
1:Q:371:PHE:CE1	1:R:231:VAL:HG22	2.30	0.66
1:s:31:THR:HG22	1:s:32:ASP:H	1.59	0.66
1:x:344:ARG:HD3	1:x:347:ARG:HH21	1.60	0.66
1:AA:344:ARG:HD3	1:AA:347:ARG:HH21	1.60	0.66
1:H:85:ILE:HA	1:H:355:GLU:HG3	1.77	0.66
1:P:344:ARG:HD3	1:P:347:ARG:HH21	1.60	0.66
1:Y:344:ARG:HD3	1:Y:347:ARG:HH21	1.60	0.66
1:v:344:ARG:HD3	1:v:347:ARG:HH21	1.60	0.66
1:2:344:ARG:HD3	1:2:347:ARG:HH21	1.60	0.66
1:K:344:ARG:HD3	1:K:347:ARG:HH21	1.60	0.66
1:Q:344:ARG:HD3	1:Q:347:ARG:HH21	1.60	0.66
1:R:85:ILE:HA	1:R:355:GLU:HG3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:31:THR:HG22	1:Z:32:ASP:H	1.59	0.66
1:h:31:THR:HG22	1:h:32:ASP:H	1.59	0.66
1:2:31:THR:HG22	1:2:32:ASP:H	1.59	0.66
1:5:85:ILE:HA	1:5:355:GLU:HG3	1.77	0.66
1:I:344:ARG:HD3	1:I:347:ARG:HH21	1.60	0.66
1:K:85:ILE:HA	1:K:355:GLU:HG3	1.77	0.66
1:Q:85:ILE:HA	1:Q:355:GLU:HG3	1.77	0.66
1:X:31:THR:HG22	1:X:32:ASP:H	1.59	0.66
1:g:344:ARG:HD3	1:g:347:ARG:HH21	1.60	0.66
1:m:344:ARG:HD3	1:m:347:ARG:HH21	1.60	0.66
1:p:344:ARG:HD3	1:p:347:ARG:HH21	1.60	0.66
1:0:344:ARG:HD3	1:0:347:ARG:HH21	1.60	0.66
1:W:85:ILE:HA	1:W:355:GLU:HG3	1.77	0.66
1:r:85:ILE:HA	1:r:355:GLU:HG3	1.77	0.66
1:r:344:ARG:HD3	1:r:347:ARG:HH21	1.60	0.66
1:x:85:ILE:HA	1:x:355:GLU:HG3	1.77	0.66
1:6:85:ILE:HA	1:6:355:GLU:HG3	1.77	0.65
1:J:344:ARG:HD3	1:J:347:ARG:HH21	1.60	0.65
1:T:85:ILE:HA	1:T:355:GLU:HG3	1.77	0.65
1:V:344:ARG:HD3	1:V:347:ARG:HH21	1.60	0.65
1:Y:85:ILE:HA	1:Y:355:GLU:HG3	1.77	0.65
1:b:344:ARG:HD3	1:b:347:ARG:HH21	1.60	0.65
1:e:344:ARG:HD3	1:e:347:ARG:HH21	1.60	0.65
1:L:344:ARG:HD3	1:L:347:ARG:HH21	1.60	0.65
1:h:344:ARG:HD3	1:h:347:ARG:HH21	1.60	0.65
1:l:85:ILE:HA	1:l:355:GLU:HG3	1.77	0.65
1:w:85:ILE:HA	1:w:355:GLU:HG3	1.77	0.65
1:5:371:PHE:CE1	1:6:231:VAL:HG22	2.31	0.65
1:P:85:ILE:HA	1:P:355:GLU:HG3	1.77	0.65
1:l:344:ARG:HD3	1:l:347:ARG:HH21	1.60	0.65
1:p:85:ILE:HA	1:p:355:GLU:HG3	1.77	0.65
1:t:344:ARG:HD3	1:t:347:ARG:HH21	1.60	0.65
1:8:85:ILE:HA	1:8:355:GLU:HG3	1.77	0.65
1:AB:344:ARG:HD3	1:AB:347:ARG:HH21	1.60	0.65
1:Z:344:ARG:HD3	1:Z:347:ARG:HH21	1.60	0.65
1:y:85:ILE:HA	1:y:355:GLU:HG3	1.77	0.65
1:8:344:ARG:HD3	1:8:347:ARG:HH21	1.60	0.65
1:G:344:ARG:HD3	1:G:347:ARG:HH21	1.60	0.65
1:U:344:ARG:HD3	1:U:347:ARG:HH21	1.60	0.65
1:c:344:ARG:HD3	1:c:347:ARG:HH21	1.60	0.65
1:d:85:ILE:HA	1:d:355:GLU:HG3	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:344:ARG:HD3	1:j:347:ARG:HH21	1.60	0.65
1:m:392:LEU:HA	1:m:395:LYS:HZ3	1.61	0.65
1:o:344:ARG:HD3	1:o:347:ARG:HH21	1.60	0.65
1:q:344:ARG:HD3	1:q:347:ARG:HH21	1.60	0.65
1:u:344:ARG:HD3	1:u:347:ARG:HH21	1.60	0.65
1:7:85:ILE:HA	1:7:355:GLU:HG3	1.77	0.65
1:N:85:ILE:HA	1:N:355:GLU:HG3	1.77	0.65
1:R:344:ARG:HD3	1:R:347:ARG:HH21	1.60	0.65
1:a:344:ARG:HD3	1:a:347:ARG:HH21	1.60	0.65
1:m:85:ILE:HA	1:m:355:GLU:HG3	1.77	0.65
1:t:85:ILE:HA	1:t:355:GLU:HG3	1.77	0.65
1:u:85:ILE:HA	1:u:355:GLU:HG3	1.77	0.65
1:6:344:ARG:HD3	1:6:347:ARG:HH21	1.60	0.65
1:AA:85:ILE:HA	1:AA:355:GLU:HG3	1.77	0.65
1:C:344:ARG:HD3	1:C:347:ARG:HH21	1.60	0.65
1:j:85:ILE:HA	1:j:355:GLU:HG3	1.77	0.65
1:n:85:ILE:HA	1:n:355:GLU:HG3	1.77	0.65
1:s:85:ILE:HA	1:s:355:GLU:HG3	1.77	0.65
1:2:85:ILE:HA	1:2:355:GLU:HG3	1.77	0.65
1:K:209:HIS:NE2	1:L:230:ALA:HB2	2.12	0.65
1:q:85:ILE:HA	1:q:355:GLU:HG3	1.77	0.65
1:4:85:ILE:HA	1:4:355:GLU:HG3	1.77	0.65
1:D:85:ILE:HA	1:D:355:GLU:HG3	1.77	0.65
1:G:85:ILE:HA	1:G:355:GLU:HG3	1.77	0.65
1:M:209:HIS:CD2	1:N:226:ASP:OD2	2.50	0.65
1:X:85:ILE:HA	1:X:355:GLU:HG3	1.77	0.65
1:X:344:ARG:HD3	1:X:347:ARG:HH21	1.60	0.65
1:f:85:ILE:HA	1:f:355:GLU:HG3	1.77	0.65
1:n:344:ARG:HD3	1:n:347:ARG:HH21	1.60	0.65
1:S:344:ARG:HD3	1:S:347:ARG:HH21	1.60	0.65
1:T:344:ARG:HD3	1:T:347:ARG:HH21	1.60	0.65
1:W:344:ARG:HD3	1:W:347:ARG:HH21	1.60	0.65
1:o:283:GLN:HA	1:o:286:LYS:HE2	1.79	0.65
1:q:31:THR:HG22	1:q:32:ASP:H	1.59	0.65
1:s:344:ARG:HD3	1:s:347:ARG:HH21	1.60	0.65
1:v:85:ILE:HA	1:v:355:GLU:HG3	1.77	0.65
1:E:85:ILE:HA	1:E:355:GLU:HG3	1.77	0.64
1:E:344:ARG:HD3	1:E:347:ARG:HH21	1.60	0.64
1:e:85:ILE:HA	1:e:355:GLU:HG3	1.77	0.64
1:f:344:ARG:HD3	1:f:347:ARG:HH21	1.60	0.64
1:h:368:GLY:CA	1:i:400:TYR:CD2	2.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:p:209:HIS:NE2	1:q:230:ALA:HB2	2.12	0.64
1:0:209:HIS:NE2	1:AA:230:ALA:HB2	2.12	0.64
1:X:283:GLN:HA	1:X:286:LYS:HE2	1.80	0.64
1:b:85:ILE:HA	1:b:355:GLU:HG3	1.77	0.64
1:1:209:HIS:CD2	1:2:226:ASP:OD2	2.50	0.64
1:8:283:GLN:HA	1:8:286:LYS:HE2	1.80	0.64
1:N:392:LEU:HA	1:N:395:LYS:HZ3	1.63	0.64
1:i:283:GLN:HA	1:i:286:LYS:HE2	1.80	0.64
1:k:344:ARG:HD3	1:k:347:ARG:HH21	1.60	0.64
1:y:209:HIS:NE2	1:z:230:ALA:HB2	2.12	0.64
1:AA:283:GLN:HA	1:AA:286:LYS:HE2	1.79	0.64
1:Z:85:ILE:HA	1:Z:355:GLU:HG3	1.77	0.64
1:AB:247:SER:HB2	1:b:58:GLN:OE1	1.98	0.64
1:R:283:GLN:HA	1:R:286:LYS:HE2	1.80	0.64
1:q:283:GLN:HA	1:q:286:LYS:HE2	1.80	0.64
1:s:283:GLN:HA	1:s:286:LYS:HE2	1.80	0.64
1:6:283:GLN:HA	1:6:286:LYS:HE2	1.80	0.64
1:A:344:ARG:HD3	1:A:347:ARG:HH21	1.60	0.64
1:E:390:ARG:HH11	1:F:379:ALA:HB1	1.63	0.64
1:V:283:GLN:HA	1:V:286:LYS:HE2	1.80	0.64
1:a:209:HIS:CD2	1:b:226:ASP:OD2	2.50	0.64
1:g:283:GLN:HA	1:g:286:LYS:HE2	1.80	0.64
1:D:283:GLN:HA	1:D:286:LYS:HE2	1.80	0.64
1:O:283:GLN:HA	1:O:286:LYS:HE2	1.80	0.64
1:r:209:HIS:CD2	1:s:226:ASP:OD2	2.50	0.64
1:C:300:CYS:HB3	1:q:318:LEU:HD21	1.80	0.64
1:W:209:HIS:NE2	1:X:230:ALA:HB2	2.12	0.64
1:Y:283:GLN:HA	1:Y:286:LYS:HE2	1.80	0.64
1:c:300:CYS:CB	1:o:318:LEU:HD21	2.28	0.64
1:r:283:GLN:HA	1:r:286:LYS:HE2	1.80	0.64
1:1:283:GLN:HA	1:1:286:LYS:HE2	1.79	0.64
1:D:344:ARG:HD3	1:D:347:ARG:HH21	1.60	0.64
1:H:344:ARG:HD3	1:H:347:ARG:HH21	1.60	0.64
1:M:283:GLN:HA	1:M:286:LYS:HE2	1.80	0.64
1:C:283:GLN:HA	1:C:286:LYS:HE2	1.80	0.63
1:S:283:GLN:HA	1:S:286:LYS:HE2	1.80	0.63
1:T:283:GLN:HA	1:T:286:LYS:HE2	1.80	0.63
1:Q:283:GLN:HA	1:Q:286:LYS:HE2	1.80	0.63
1:R:392:LEU:HA	1:R:395:LYS:HZ3	1.62	0.63
1:e:283:GLN:HA	1:e:286:LYS:HE2	1.80	0.63
1:s:392:LEU:HA	1:s:395:LYS:HZ3	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:ARG:HH11	1:B:379:ALA:HB1	1.63	0.63
1:R:83:LYS:HB2	1:R:347:ARG:HH12	1.64	0.63
1:Z:83:LYS:HB2	1:Z:347:ARG:HH12	1.64	0.63
1:z:392:LEU:HA	1:z:395:LYS:HZ3	1.63	0.63
1:2:392:LEU:HA	1:2:395:LYS:HZ3	1.63	0.63
1:3:283:GLN:HA	1:3:286:LYS:HE2	1.80	0.63
1:3:392:LEU:HA	1:3:395:LYS:HZ3	1.64	0.63
1:5:283:GLN:HA	1:5:286:LYS:HE2	1.80	0.63
1:8:83:LYS:HB2	1:8:347:ARG:HH12	1.64	0.63
1:J:283:GLN:HA	1:J:286:LYS:HE2	1.80	0.63
1:j:83:LYS:HB2	1:j:347:ARG:HH12	1.64	0.63
1:k:283:GLN:HA	1:k:286:LYS:HE2	1.80	0.63
1:l:283:GLN:HA	1:l:286:LYS:HE2	1.80	0.63
1:2:83:LYS:HB2	1:2:347:ARG:HH12	1.64	0.63
1:7:283:GLN:HA	1:7:286:LYS:HE2	1.80	0.63
1:F:283:GLN:HA	1:F:286:LYS:HE2	1.80	0.63
1:T:83:LYS:HB2	1:T:347:ARG:HH12	1.64	0.63
1:l:83:LYS:HB2	1:l:347:ARG:HH12	1.64	0.63
1:o:83:LYS:HB2	1:o:347:ARG:HH12	1.64	0.63
1:t:220:LEU:HD22	1:u:220:LEU:HD22	1.79	0.63
1:t:283:GLN:HA	1:t:286:LYS:HE2	1.80	0.63
1:I:283:GLN:HA	1:I:286:LYS:HE2	1.80	0.63
1:h:283:GLN:HA	1:h:286:LYS:HE2	1.80	0.63
1:5:220:LEU:HD22	1:6:220:LEU:HD22	1.79	0.63
1:U:283:GLN:HA	1:U:286:LYS:HE2	1.80	0.63
1:W:283:GLN:HA	1:W:286:LYS:HE2	1.79	0.63
1:d:283:GLN:HA	1:d:286:LYS:HE2	1.80	0.63
1:E:283:GLN:HA	1:E:286:LYS:HE2	1.80	0.63
1:K:83:LYS:HB2	1:K:347:ARG:HH12	1.64	0.63
1:Q:220:LEU:HD22	1:R:220:LEU:HD22	1.79	0.63
1:k:220:LEU:HD22	1:l:220:LEU:HD22	1.79	0.63
1:m:83:LYS:HB2	1:m:347:ARG:HH12	1.64	0.63
1:z:283:GLN:HA	1:z:286:LYS:HE2	1.80	0.63
1:0:283:GLN:HA	1:0:286:LYS:HE2	1.80	0.63
1:N:83:LYS:HB2	1:N:347:ARG:HH12	1.64	0.63
1:P:83:LYS:HB2	1:P:347:ARG:HH12	1.64	0.63
1:j:283:GLN:HA	1:j:286:LYS:HE2	1.80	0.63
1:x:283:GLN:HA	1:x:286:LYS:HE2	1.80	0.63
1:2:283:GLN:HA	1:2:286:LYS:HE2	1.80	0.62
1:3:311:ILE:CD1	1:x:311:ILE:HD11	2.28	0.62
1:AB:283:GLN:HA	1:AB:286:LYS:HE2	1.79	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:83:LYS:HB2	1:w:347:ARG:HH12	1.64	0.62
1:7:83:LYS:HB2	1:7:347:ARG:HH12	1.64	0.62
1:AB:83:LYS:HB2	1:AB:347:ARG:HH12	1.64	0.62
1:b:83:LYS:HB2	1:b:347:ARG:HH12	1.64	0.62
1:b:283:GLN:HA	1:b:286:LYS:HE2	1.80	0.62
1:i:83:LYS:HB2	1:i:347:ARG:HH12	1.64	0.62
1:n:283:GLN:HA	1:n:286:LYS:HE2	1.80	0.62
1:q:83:LYS:HB2	1:q:347:ARG:HH12	1.64	0.62
1:x:392:LEU:HA	1:x:395:LYS:HZ3	1.64	0.62
1:4:83:LYS:HB2	1:4:347:ARG:HH12	1.64	0.62
1:6:83:LYS:HB2	1:6:347:ARG:HH12	1.64	0.62
1:9:283:GLN:HA	1:9:286:LYS:HE2	1.80	0.62
1:B:283:GLN:HA	1:B:286:LYS:HE2	1.80	0.62
1:F:83:LYS:HB2	1:F:347:ARG:HH12	1.64	0.62
1:L:283:GLN:HA	1:L:286:LYS:HE2	1.80	0.62
1:P:283:GLN:HA	1:P:286:LYS:HE2	1.80	0.62
1:d:83:LYS:HB2	1:d:347:ARG:HH12	1.64	0.62
1:e:83:LYS:HB2	1:e:347:ARG:HH12	1.64	0.62
1:w:230:ALA:HB2	1:x:209:HIS:CG	2.34	0.62
1:y:283:GLN:HA	1:y:286:LYS:HE2	1.80	0.62
1:0:83:LYS:HB2	1:0:347:ARG:HH12	1.64	0.62
1:5:83:LYS:HB2	1:5:347:ARG:HH12	1.64	0.62
1:G:283:GLN:HA	1:G:286:LYS:HE2	1.80	0.62
1:Q:83:LYS:HB2	1:Q:347:ARG:HH12	1.64	0.62
1:Z:283:GLN:HA	1:Z:286:LYS:HE2	1.80	0.62
1:f:283:GLN:HA	1:f:286:LYS:HE2	1.80	0.62
1:h:389:TRP:CB	1:i:379:ALA:HB2	2.28	0.62
1:m:283:GLN:HA	1:m:286:LYS:HE2	1.80	0.62
1:v:283:GLN:HA	1:v:286:LYS:HE2	1.80	0.62
1:H:28:VAL:HG22	1:H:50:THR:HA	1.82	0.62
1:a:83:LYS:HB2	1:a:347:ARG:HH12	1.64	0.62
1:p:283:GLN:HA	1:p:286:LYS:HE2	1.80	0.62
1:u:28:VAL:HG22	1:u:50:THR:HA	1.82	0.62
1:w:283:GLN:HA	1:w:286:LYS:HE2	1.80	0.62
1:x:83:LYS:HB2	1:x:347:ARG:HH12	1.64	0.62
1:z:83:LYS:HB2	1:z:347:ARG:HH12	1.64	0.62
1:9:83:LYS:HB2	1:9:347:ARG:HH12	1.64	0.62
1:A:83:LYS:HB2	1:A:347:ARG:HH12	1.64	0.62
1:K:283:GLN:HA	1:K:286:LYS:HE2	1.80	0.62
1:n:28:VAL:HG22	1:n:50:THR:HA	1.82	0.62
1:n:230:ALA:HB2	1:o:209:HIS:CG	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:283:GLN:HA	1:u:286:LYS:HE2	1.80	0.62
1:x:28:VAL:HG22	1:x:50:THR:HA	1.82	0.62
1:2:28:VAL:HG22	1:2:50:THR:HA	1.82	0.62
1:3:300:CYS:CB	1:x:318:LEU:HD21	2.19	0.62
1:D:93:LYS:HA	1:D:109:ARG:HH22	1.65	0.62
1:E:28:VAL:HG22	1:E:50:THR:HA	1.82	0.62
1:G:93:LYS:HA	1:G:109:ARG:HH22	1.65	0.62
1:P:28:VAL:HG22	1:P:50:THR:HA	1.82	0.62
1:Q:28:VAL:HG22	1:Q:50:THR:HA	1.82	0.62
1:S:83:LYS:HB2	1:S:347:ARG:HH12	1.64	0.62
1:U:28:VAL:HG22	1:U:50:THR:HA	1.82	0.62
1:W:28:VAL:HG22	1:W:50:THR:HA	1.82	0.62
1:X:93:LYS:HA	1:X:109:ARG:HH22	1.65	0.62
1:c:283:GLN:HA	1:c:286:LYS:HE2	1.79	0.62
1:j:28:VAL:HG22	1:j:50:THR:HA	1.82	0.62
1:p:28:VAL:HG22	1:p:50:THR:HA	1.82	0.62
1:u:83:LYS:HB2	1:u:347:ARG:HH12	1.64	0.62
1:u:93:LYS:HA	1:u:109:ARG:HH22	1.65	0.62
1:v:93:LYS:HA	1:v:109:ARG:HH22	1.65	0.62
1:6:28:VAL:HG22	1:6:50:THR:HA	1.82	0.62
1:7:28:VAL:HG22	1:7:50:THR:HA	1.82	0.62
1:A:28:VAL:HG22	1:A:50:THR:HA	1.82	0.62
1:B:28:VAL:HG22	1:B:50:THR:HA	1.82	0.62
1:J:28:VAL:HG22	1:J:50:THR:HA	1.82	0.62
1:K:28:VAL:HG22	1:K:50:THR:HA	1.82	0.62
1:K:93:LYS:HA	1:K:109:ARG:HH22	1.65	0.62
1:R:28:VAL:HG22	1:R:50:THR:HA	1.82	0.62
1:U:230:ALA:HB2	1:V:209:HIS:CG	2.35	0.62
1:c:28:VAL:HG22	1:c:50:THR:HA	1.82	0.62
1:c:390:ARG:NH1	1:d:379:ALA:HB1	2.08	0.62
1:d:28:VAL:HG22	1:d:50:THR:HA	1.82	0.62
1:h:28:VAL:HG22	1:h:50:THR:HA	1.82	0.62
1:m:93:LYS:HA	1:m:109:ARG:HH22	1.65	0.62
1:q:93:LYS:HA	1:q:109:ARG:HH22	1.65	0.62
1:4:28:VAL:HG22	1:4:50:THR:HA	1.82	0.62
1:5:28:VAL:HG22	1:5:50:THR:HA	1.82	0.62
1:9:28:VAL:HG22	1:9:50:THR:HA	1.82	0.62
1:B:83:LYS:HB2	1:B:347:ARG:HH12	1.64	0.62
1:E:93:LYS:HA	1:E:109:ARG:HH22	1.65	0.62
1:F:28:VAL:HG22	1:F:50:THR:HA	1.82	0.62
1:M:83:LYS:HB2	1:M:347:ARG:HH12	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:28:VAL:HG22	1:S:50:THR:HA	1.82	0.62
1:V:83:LYS:HB2	1:V:347:ARG:HH12	1.64	0.62
1:X:83:LYS:HB2	1:X:347:ARG:HH12	1.64	0.62
1:Z:28:VAL:HG22	1:Z:50:THR:HA	1.82	0.62
1:b:93:LYS:HA	1:b:109:ARG:HH22	1.65	0.62
1:e:28:VAL:HG22	1:e:50:THR:HA	1.82	0.62
1:e:93:LYS:HA	1:e:109:ARG:HH22	1.65	0.62
1:f:28:VAL:HG22	1:f:50:THR:HA	1.82	0.62
1:f:93:LYS:HA	1:f:109:ARG:HH22	1.65	0.62
1:g:83:LYS:HB2	1:g:347:ARG:HH12	1.64	0.62
1:s:83:LYS:HB2	1:s:347:ARG:HH12	1.64	0.62
1:t:93:LYS:HA	1:t:109:ARG:HH22	1.65	0.62
1:v:28:VAL:HG22	1:v:50:THR:HA	1.82	0.62
1:y:28:VAL:HG22	1:y:50:THR:HA	1.82	0.62
1:y:83:LYS:HB2	1:y:347:ARG:HH12	1.64	0.62
1:0:28:VAL:HG22	1:0:50:THR:HA	1.82	0.62
1:AB:28:VAL:HG22	1:AB:50:THR:HA	1.82	0.62
1:C:93:LYS:HA	1:C:109:ARG:HH22	1.65	0.62
1:H:283:GLN:HA	1:H:286:LYS:HE2	1.80	0.62
1:I:83:LYS:HB2	1:I:347:ARG:HH12	1.64	0.62
1:J:93:LYS:HA	1:J:109:ARG:HH22	1.65	0.62
1:N:28:VAL:HG22	1:N:50:THR:HA	1.82	0.62
1:O:28:VAL:HG22	1:O:50:THR:HA	1.82	0.62
1:U:83:LYS:HB2	1:U:347:ARG:HH12	1.64	0.62
1:a:28:VAL:HG22	1:a:50:THR:HA	1.82	0.62
1:a:283:GLN:HA	1:a:286:LYS:HE2	1.80	0.62
1:c:83:LYS:HB2	1:c:347:ARG:HH12	1.64	0.62
1:h:83:LYS:HB2	1:h:347:ARG:HH12	1.64	0.62
1:h:93:LYS:HA	1:h:109:ARG:HH22	1.65	0.62
1:h:372:HIS:NE2	1:i:397:GLU:OE2	2.32	0.62
1:o:93:LYS:HA	1:o:109:ARG:HH22	1.65	0.62
1:t:83:LYS:HB2	1:t:347:ARG:HH12	1.64	0.62
1:w:28:VAL:HG22	1:w:50:THR:HA	1.82	0.62
1:z:28:VAL:HG22	1:z:50:THR:HA	1.82	0.62
1:3:83:LYS:HB2	1:3:347:ARG:HH12	1.64	0.61
1:8:28:VAL:HG22	1:8:50:THR:HA	1.82	0.61
1:H:83:LYS:HB2	1:H:347:ARG:HH12	1.64	0.61
1:L:28:VAL:HG22	1:L:50:THR:HA	1.82	0.61
1:Y:28:VAL:HG22	1:Y:50:THR:HA	1.82	0.61
1:Z:93:LYS:HA	1:Z:109:ARG:HH22	1.65	0.61
1:k:28:VAL:HG22	1:k:50:THR:HA	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:28:VAL:HG22	1:m:50:THR:HA	1.82	0.61
1:r:28:VAL:HG22	1:r:50:THR:HA	1.82	0.61
1:s:93:LYS:HA	1:s:109:ARG:HH22	1.65	0.61
1:t:28:VAL:HG22	1:t:50:THR:HA	1.82	0.61
1:4:283:GLN:HA	1:4:286:LYS:HE2	1.80	0.61
1:A:283:GLN:HA	1:A:286:LYS:HE2	1.80	0.61
1:AA:93:LYS:HA	1:AA:109:ARG:HH22	1.65	0.61
1:G:28:VAL:HG22	1:G:50:THR:HA	1.82	0.61
1:G:83:LYS:HB2	1:G:347:ARG:HH12	1.64	0.61
1:H:93:LYS:HA	1:H:109:ARG:HH22	1.65	0.61
1:I:28:VAL:HG22	1:I:50:THR:HA	1.82	0.61
1:I:93:LYS:HA	1:I:109:ARG:HH22	1.65	0.61
1:J:83:LYS:HB2	1:J:347:ARG:HH12	1.64	0.61
1:O:83:LYS:HB2	1:O:347:ARG:HH12	1.64	0.61
1:P:93:LYS:HA	1:P:109:ARG:HH22	1.65	0.61
1:T:93:LYS:HA	1:T:109:ARG:HH22	1.65	0.61
1:W:83:LYS:HB2	1:W:347:ARG:HH12	1.64	0.61
1:l:93:LYS:HA	1:l:109:ARG:HH22	1.65	0.61
1:p:93:LYS:HA	1:p:109:ARG:HH22	1.65	0.61
1:w:93:LYS:HA	1:w:109:ARG:HH22	1.65	0.61
1:z:93:LYS:HA	1:z:109:ARG:HH22	1.65	0.61
1:1:28:VAL:HG22	1:1:50:THR:HA	1.82	0.61
1:1:83:LYS:HB2	1:1:347:ARG:HH12	1.64	0.61
1:AB:93:LYS:HA	1:AB:109:ARG:HH22	1.65	0.61
1:C:28:VAL:HG22	1:C:50:THR:HA	1.82	0.61
1:L:93:LYS:HA	1:L:109:ARG:HH22	1.65	0.61
1:M:28:VAL:HG22	1:M:50:THR:HA	1.82	0.61
1:Y:93:LYS:HA	1:Y:109:ARG:HH22	1.65	0.61
1:a:93:LYS:HA	1:a:109:ARG:HH22	1.65	0.61
1:b:28:VAL:HG22	1:b:50:THR:HA	1.82	0.61
1:g:28:VAL:HG22	1:g:50:THR:HA	1.82	0.61
1:l:28:VAL:HG22	1:l:50:THR:HA	1.82	0.61
1:n:93:LYS:HA	1:n:109:ARG:HH22	1.65	0.61
1:r:93:LYS:HA	1:r:109:ARG:HH22	1.65	0.61
1:s:28:VAL:HG22	1:s:50:THR:HA	1.82	0.61
1:v:83:LYS:HB2	1:v:347:ARG:HH12	1.64	0.61
1:3:28:VAL:HG22	1:3:50:THR:HA	1.82	0.61
1:8:93:LYS:HA	1:8:109:ARG:HH22	1.65	0.61
1:D:28:VAL:HG22	1:D:50:THR:HA	1.82	0.61
1:M:93:LYS:HA	1:M:109:ARG:HH22	1.65	0.61
1:O:93:LYS:HA	1:O:109:ARG:HH22	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:93:LYS:HA	1:j:109:ARG:HH22	1.65	0.61
1:r:83:LYS:HB2	1:r:347:ARG:HH12	1.64	0.61
1:9:93:LYS:HA	1:9:109:ARG:HH22	1.65	0.61
1:N:283:GLN:HA	1:N:286:LYS:HE2	1.80	0.61
1:T:28:VAL:HG22	1:T:50:THR:HA	1.82	0.61
1:i:28:VAL:HG22	1:i:50:THR:HA	1.82	0.61
1:k:83:LYS:HB2	1:k:347:ARG:HH12	1.64	0.61
1:1:93:LYS:HA	1:1:109:ARG:HH22	1.65	0.61
1:3:93:LYS:HA	1:3:109:ARG:HH22	1.65	0.61
1:AA:28:VAL:HG22	1:AA:50:THR:HA	1.82	0.61
1:I:368:GLY:HA2	1:J:400:TYR:CE2	2.36	0.61
1:k:392:LEU:HA	1:k:395:LYS:HZ3	1.66	0.61
1:q:28:VAL:HG22	1:q:50:THR:HA	1.82	0.61
1:q:392:LEU:HA	1:q:395:LYS:HZ3	1.66	0.61
1:x:93:LYS:HA	1:x:109:ARG:HH22	1.65	0.61
1:2:93:LYS:HA	1:2:109:ARG:HH22	1.65	0.61
1:V:93:LYS:HA	1:V:109:ARG:HH22	1.65	0.61
1:f:83:LYS:HB2	1:f:347:ARG:HH12	1.64	0.61
1:k:93:LYS:HA	1:k:109:ARG:HH22	1.65	0.61
1:y:93:LYS:HA	1:y:109:ARG:HH22	1.65	0.61
1:X:28:VAL:HG22	1:X:50:THR:HA	1.82	0.61
1:6:93:LYS:HA	1:6:109:ARG:HH22	1.65	0.61
1:D:83:LYS:HB2	1:D:347:ARG:HH12	1.64	0.61
1:Y:83:LYS:HB2	1:Y:347:ARG:HH12	1.64	0.61
1:o:28:VAL:HG22	1:o:50:THR:HA	1.82	0.61
1:6:392:LEU:HA	1:6:395:LYS:HZ3	1.66	0.61
1:C:83:LYS:HB2	1:C:347:ARG:HH12	1.64	0.61
1:E:83:LYS:HB2	1:E:347:ARG:HH12	1.64	0.61
1:g:93:LYS:HA	1:g:109:ARG:HH22	1.65	0.61
1:w:223:SER:HB2	1:x:216:ARG:HG3	1.83	0.61
1:AA:83:LYS:HB2	1:AA:347:ARG:HH12	1.64	0.60
1:V:28:VAL:HG22	1:V:50:THR:HA	1.82	0.60
1:W:93:LYS:HA	1:W:109:ARG:HH22	1.65	0.60
1:p:83:LYS:HB2	1:p:347:ARG:HH12	1.64	0.60
1:z:390:ARG:HA	1:z:393:LEU:HD12	1.83	0.60
1:3:390:ARG:HA	1:3:393:LEU:HD12	1.83	0.60
1:4:390:ARG:HA	1:4:393:LEU:HD12	1.83	0.60
1:5:93:LYS:HA	1:5:109:ARG:HH22	1.65	0.60
1:J:390:ARG:HA	1:J:393:LEU:HD12	1.83	0.60
1:K:390:ARG:HA	1:K:393:LEU:HD12	1.83	0.60
1:L:390:ARG:HA	1:L:393:LEU:HD12	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:93:LYS:HA	1:R:109:ARG:HH22	1.65	0.60
1:S:93:LYS:HA	1:S:109:ARG:HH22	1.65	0.60
1:c:93:LYS:HA	1:c:109:ARG:HH22	1.65	0.60
1:h:368:GLY:CA	1:i:400:TYR:CG	2.84	0.60
1:w:216:ARG:HG3	1:x:223:SER:HB2	1.83	0.60
1:w:390:ARG:HA	1:w:393:LEU:HD12	1.83	0.60
1:y:390:ARG:HA	1:y:393:LEU:HD12	1.83	0.60
1:I:390:ARG:HA	1:I:393:LEU:HD12	1.83	0.60
1:L:83:LYS:HB2	1:L:347:ARG:HH12	1.64	0.60
1:d:93:LYS:HA	1:d:109:ARG:HH22	1.65	0.60
1:n:83:LYS:HB2	1:n:347:ARG:HH12	1.64	0.60
1:x:390:ARG:HA	1:x:393:LEU:HD12	1.83	0.60
1:A:93:LYS:HA	1:A:109:ARG:HH22	1.65	0.60
1:P:390:ARG:HA	1:P:393:LEU:HD12	1.83	0.60
1:Z:390:ARG:HA	1:Z:393:LEU:HD12	1.83	0.60
1:h:390:ARG:HA	1:h:393:LEU:HD12	1.83	0.60
1:u:390:ARG:HA	1:u:393:LEU:HD12	1.83	0.60
1:0:93:LYS:HA	1:0:109:ARG:HH22	1.65	0.60
1:1:390:ARG:HA	1:1:393:LEU:HD12	1.83	0.60
1:4:93:LYS:HA	1:4:109:ARG:HH22	1.65	0.60
1:O:390:ARG:HA	1:O:393:LEU:HD12	1.83	0.60
1:Q:93:LYS:HA	1:Q:109:ARG:HH22	1.65	0.60
1:Y:390:ARG:HA	1:Y:393:LEU:HD12	1.83	0.60
1:H:390:ARG:HA	1:H:393:LEU:HD12	1.83	0.60
1:M:390:ARG:HA	1:M:393:LEU:HD12	1.83	0.60
1:N:93:LYS:HA	1:N:109:ARG:HH22	1.65	0.60
1:U:93:LYS:HA	1:U:109:ARG:HH22	1.65	0.60
1:g:390:ARG:HA	1:g:393:LEU:HD12	1.83	0.60
1:B:93:LYS:HA	1:B:109:ARG:HH22	1.65	0.60
1:F:93:LYS:HA	1:F:109:ARG:HH22	1.65	0.60
1:U:223:SER:HB2	1:V:216:ARG:HG3	1.83	0.60
1:v:390:ARG:HA	1:v:393:LEU:HD12	1.83	0.60
1:2:390:ARG:HA	1:2:393:LEU:HD12	1.83	0.60
1:5:390:ARG:HA	1:5:393:LEU:HD12	1.83	0.60
1:E:368:GLY:HA2	1:F:400:TYR:CD2	2.37	0.60
1:N:390:ARG:HA	1:N:393:LEU:HD12	1.83	0.60
1:d:390:ARG:HA	1:d:393:LEU:HD12	1.83	0.60
1:i:93:LYS:HA	1:i:109:ARG:HH22	1.65	0.60
1:j:390:ARG:HA	1:j:393:LEU:HD12	1.83	0.60
1:t:390:ARG:HA	1:t:393:LEU:HD12	1.83	0.60
1:5:230:ALA:HB2	1:6:209:HIS:NE2	2.17	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:390:ARG:HA	1:Q:393:LEU:HD12	1.83	0.60
1:c:390:ARG:HA	1:c:393:LEU:HD12	1.83	0.60
1:k:390:ARG:HA	1:k:393:LEU:HD12	1.83	0.60
1:7:93:LYS:HA	1:7:109:ARG:HH22	1.65	0.59
1:A:390:ARG:HA	1:A:393:LEU:HD12	1.83	0.59
1:G:390:ARG:HA	1:G:393:LEU:HD12	1.83	0.59
1:U:390:ARG:HA	1:U:393:LEU:HD12	1.83	0.59
1:f:390:ARG:HA	1:f:393:LEU:HD12	1.83	0.59
1:n:223:SER:HB2	1:o:216:ARG:HG3	1.83	0.59
1:7:390:ARG:HA	1:7:393:LEU:HD12	1.83	0.59
1:E:390:ARG:HA	1:E:393:LEU:HD12	1.83	0.59
1:F:390:ARG:HA	1:F:393:LEU:HD12	1.83	0.59
1:Q:230:ALA:HB2	1:R:209:HIS:NE2	2.17	0.59
1:S:390:ARG:HA	1:S:393:LEU:HD12	1.83	0.59
1:h:396:LEU:HD13	1:i:372:HIS:HA	1.84	0.59
1:n:209:HIS:CG	1:o:230:ALA:HB2	2.38	0.59
1:n:390:ARG:HA	1:n:393:LEU:HD12	1.83	0.59
1:r:230:ALA:HB2	1:s:209:HIS:CE1	2.38	0.59
1:1:392:LEU:HD23	1:1:395:LYS:HZ1	1.66	0.59
1:9:390:ARG:HA	1:9:393:LEU:HD12	1.83	0.59
1:e:390:ARG:HA	1:e:393:LEU:HD12	1.83	0.59
1:i:392:LEU:HA	1:i:395:LYS:HZ3	1.67	0.59
1:3:182:VAL:HB	1:x:319:THR:HG22	1.84	0.59
1:B:390:ARG:HA	1:B:393:LEU:HD12	1.83	0.59
1:R:390:ARG:HA	1:R:393:LEU:HD12	1.83	0.59
1:o:390:ARG:HA	1:o:393:LEU:HD12	1.83	0.59
1:w:209:HIS:CG	1:x:230:ALA:HB2	2.38	0.59
1:0:390:ARG:HA	1:0:393:LEU:HD12	1.83	0.59
1:6:390:ARG:HA	1:6:393:LEU:HD12	1.83	0.59
1:8:390:ARG:HA	1:8:393:LEU:HD12	1.83	0.59
1:AB:390:ARG:HA	1:AB:393:LEU:HD12	1.83	0.59
1:T:390:ARG:HA	1:T:393:LEU:HD12	1.83	0.59
1:V:390:ARG:HA	1:V:393:LEU:HD12	1.83	0.59
1:l:390:ARG:HA	1:l:393:LEU:HD12	1.83	0.59
1:m:390:ARG:HA	1:m:393:LEU:HD12	1.83	0.59
1:p:390:ARG:HA	1:p:393:LEU:HD12	1.83	0.59
1:r:390:ARG:HA	1:r:393:LEU:HD12	1.83	0.59
1:s:390:ARG:HA	1:s:393:LEU:HD12	1.83	0.59
1:D:390:ARG:HA	1:D:393:LEU:HD12	1.83	0.59
1:U:216:ARG:HG3	1:V:223:SER:HB2	1.83	0.59
1:b:390:ARG:HA	1:b:393:LEU:HD12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:311:ILE:HD11	1:x:311:ILE:HD11	1.84	0.59
1:AA:390:ARG:HA	1:AA:393:LEU:HD12	1.83	0.59
1:C:390:ARG:HA	1:C:393:LEU:HD12	1.83	0.59
1:W:390:ARG:HA	1:W:393:LEU:HD12	1.83	0.59
1:X:390:ARG:HA	1:X:393:LEU:HD12	1.83	0.59
1:a:390:ARG:HA	1:a:393:LEU:HD12	1.83	0.59
1:i:390:ARG:HA	1:i:393:LEU:HD12	1.83	0.59
1:k:230:ALA:HB2	1:l:209:HIS:NE2	2.18	0.59
1:U:209:HIS:CG	1:V:230:ALA:HB2	2.38	0.59
1:n:216:ARG:HG3	1:o:223:SER:HB2	1.83	0.59
1:M:230:ALA:HB2	1:N:209:HIS:CE1	2.38	0.59
1:f:390:ARG:HH11	1:g:379:ALA:HB1	1.66	0.59
1:q:390:ARG:HA	1:q:393:LEU:HD12	1.83	0.59
1:1:230:ALA:HB2	1:2:209:HIS:CE1	2.38	0.59
1:AB:393:LEU:HD23	1:AB:396:LEU:HD12	1.85	0.59
1:C:393:LEU:HD23	1:C:396:LEU:HD12	1.85	0.59
1:a:393:LEU:HD23	1:a:396:LEU:HD12	1.85	0.59
1:1:393:LEU:HD23	1:1:396:LEU:HD12	1.85	0.58
1:7:393:LEU:HD23	1:7:396:LEU:HD12	1.85	0.58
1:C:392:LEU:HA	1:C:395:LYS:HZ3	1.68	0.58
1:E:393:LEU:HD23	1:E:396:LEU:HD12	1.85	0.58
1:M:393:LEU:HD23	1:M:396:LEU:HD12	1.85	0.58
1:O:393:LEU:HD23	1:O:396:LEU:HD12	1.85	0.58
1:Q:393:LEU:HD23	1:Q:396:LEU:HD12	1.85	0.58
1:W:393:LEU:HD23	1:W:396:LEU:HD12	1.86	0.58
1:Y:393:LEU:HD23	1:Y:396:LEU:HD12	1.85	0.58
1:f:393:LEU:HD23	1:f:396:LEU:HD12	1.85	0.58
1:k:227:PHE:HD1	1:l:209:HIS:HB3	1.67	0.58
1:k:393:LEU:HD23	1:k:396:LEU:HD12	1.85	0.58
1:9:393:LEU:HD23	1:9:396:LEU:HD12	1.85	0.58
1:D:393:LEU:HD23	1:D:396:LEU:HD12	1.85	0.58
1:H:393:LEU:HD23	1:H:396:LEU:HD12	1.85	0.58
1:I:393:LEU:HD23	1:I:396:LEU:HD12	1.85	0.58
1:U:393:LEU:HD23	1:U:396:LEU:HD12	1.85	0.58
1:h:368:GLY:HA2	1:i:400:TYR:CE2	2.38	0.58
1:i:393:LEU:HD23	1:i:396:LEU:HD12	1.85	0.58
1:r:393:LEU:HD23	1:r:396:LEU:HD12	1.86	0.58
1:5:393:LEU:HD23	1:5:396:LEU:HD12	1.85	0.58
1:n:393:LEU:HD23	1:n:396:LEU:HD12	1.86	0.58
1:t:227:PHE:HD1	1:u:209:HIS:HB3	1.67	0.58
1:v:393:LEU:HD23	1:v:396:LEU:HD12	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:393:LEU:HD23	1:X:396:LEU:HD12	1.85	0.58
1:a:230:ALA:HB2	1:b:209:HIS:CE1	2.38	0.58
1:p:393:LEU:HD23	1:p:396:LEU:HD12	1.86	0.58
1:q:393:LEU:HD23	1:q:396:LEU:HD12	1.85	0.58
1:u:393:LEU:HD23	1:u:396:LEU:HD12	1.85	0.58
1:C:90:LEU:HD22	1:C:113:LEU:HD22	1.86	0.58
1:L:393:LEU:HD23	1:L:396:LEU:HD12	1.85	0.58
1:S:393:LEU:HD23	1:S:396:LEU:HD12	1.85	0.58
1:h:393:LEU:HD23	1:h:396:LEU:HD12	1.85	0.58
1:0:393:LEU:HD23	1:0:396:LEU:HD12	1.85	0.58
1:3:393:LEU:HD23	1:3:396:LEU:HD12	1.86	0.58
1:A:393:LEU:HD23	1:A:396:LEU:HD12	1.85	0.58
1:AB:90:LEU:HD22	1:AB:113:LEU:HD22	1.86	0.58
1:B:90:LEU:HD22	1:B:113:LEU:HD22	1.86	0.58
1:F:393:LEU:HD23	1:F:396:LEU:HD12	1.85	0.58
1:J:393:LEU:HD23	1:J:396:LEU:HD12	1.85	0.58
1:U:230:ALA:HB2	1:V:209:HIS:CE1	2.38	0.58
1:q:90:LEU:HD22	1:q:113:LEU:HD22	1.86	0.58
1:t:230:ALA:HB2	1:u:209:HIS:NE2	2.17	0.58
1:t:393:LEU:HD23	1:t:396:LEU:HD12	1.85	0.58
1:z:393:LEU:HD23	1:z:396:LEU:HD12	1.85	0.58
1:AA:393:LEU:HD23	1:AA:396:LEU:HD12	1.85	0.58
1:c:393:LEU:HD23	1:c:396:LEU:HD12	1.85	0.58
1:e:393:LEU:HD23	1:e:396:LEU:HD12	1.85	0.58
1:h:390:ARG:NH1	1:i:383:ASN:HD21	2.01	0.58
1:r:90:LEU:HD22	1:r:113:LEU:HD22	1.86	0.58
1:AA:90:LEU:HD22	1:AA:113:LEU:HD22	1.86	0.58
1:B:393:LEU:HD23	1:B:396:LEU:HD12	1.85	0.58
1:D:90:LEU:HD22	1:D:113:LEU:HD22	1.86	0.58
1:Q:227:PHE:HD1	1:R:209:HIS:HB3	1.67	0.58
1:X:90:LEU:HD22	1:X:113:LEU:HD22	1.86	0.58
1:b:393:LEU:HD23	1:b:396:LEU:HD12	1.85	0.58
1:c:90:LEU:HD22	1:c:113:LEU:HD22	1.86	0.58
1:s:393:LEU:HD23	1:s:396:LEU:HD12	1.85	0.58
1:V:90:LEU:HD22	1:V:113:LEU:HD22	1.86	0.58
1:a:90:LEU:HD22	1:a:113:LEU:HD22	1.86	0.58
1:o:90:LEU:HD22	1:o:113:LEU:HD22	1.86	0.58
1:o:392:LEU:HA	1:o:395:LYS:HZ3	1.69	0.58
1:G:393:LEU:HD23	1:G:396:LEU:HD12	1.86	0.58
1:b:90:LEU:HD22	1:b:113:LEU:HD22	1.86	0.58
1:d:90:LEU:HD22	1:d:113:LEU:HD22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:90:LEU:HD22	1:f:113:LEU:HD22	1.86	0.58
1:g:393:LEU:HD23	1:g:396:LEU:HD12	1.85	0.58
1:h:389:TRP:HB3	1:i:379:ALA:HB2	1.86	0.58
1:p:90:LEU:HD22	1:p:113:LEU:HD22	1.86	0.58
1:s:90:LEU:HD22	1:s:113:LEU:HD22	1.86	0.58
1:0:90:LEU:HD22	1:0:113:LEU:HD22	1.86	0.57
1:5:227:PHE:HD1	1:6:209:HIS:HB3	1.67	0.57
1:8:392:LEU:HA	1:8:395:LYS:HZ3	1.69	0.57
1:9:90:LEU:HD22	1:9:113:LEU:HD22	1.86	0.57
1:A:90:LEU:HD22	1:A:113:LEU:HD22	1.86	0.57
1:E:90:LEU:HD22	1:E:113:LEU:HD22	1.86	0.57
1:K:393:LEU:HD23	1:K:396:LEU:HD12	1.85	0.57
1:w:230:ALA:HB2	1:x:209:HIS:CE1	2.39	0.57
1:4:392:LEU:HA	1:4:395:LYS:HZ3	1.69	0.57
1:n:90:LEU:HD22	1:n:113:LEU:HD22	1.86	0.57
1:2:90:LEU:HD22	1:2:113:LEU:HD22	1.86	0.57
1:F:90:LEU:HD22	1:F:113:LEU:HD22	1.86	0.57
1:N:393:LEU:HD23	1:N:396:LEU:HD12	1.85	0.57
1:e:90:LEU:HD22	1:e:113:LEU:HD22	1.86	0.57
1:j:393:LEU:HD23	1:j:396:LEU:HD12	1.85	0.57
1:n:230:ALA:HB2	1:o:209:HIS:CE1	2.39	0.57
1:t:90:LEU:HD22	1:t:113:LEU:HD22	1.86	0.57
1:6:393:LEU:HD23	1:6:396:LEU:HD12	1.85	0.57
1:G:90:LEU:HD22	1:G:113:LEU:HD22	1.86	0.57
1:L:392:LEU:HA	1:L:395:LYS:HZ3	1.70	0.57
1:T:90:LEU:HD22	1:T:113:LEU:HD22	1.86	0.57
1:U:90:LEU:HD22	1:U:113:LEU:HD22	1.86	0.57
1:d:393:LEU:HD23	1:d:396:LEU:HD12	1.85	0.57
1:y:393:LEU:HD23	1:y:396:LEU:HD12	1.85	0.57
1:Z:90:LEU:HD22	1:Z:113:LEU:HD22	1.86	0.57
1:4:393:LEU:HD23	1:4:396:LEU:HD12	1.85	0.57
1:A:368:GLY:HA2	1:B:400:TYR:CD2	2.39	0.57
1:O:90:LEU:HD22	1:O:113:LEU:HD22	1.86	0.57
1:T:393:LEU:HD23	1:T:396:LEU:HD12	1.85	0.57
1:V:393:LEU:HD23	1:V:396:LEU:HD12	1.85	0.57
1:W:90:LEU:HD22	1:W:113:LEU:HD22	1.86	0.57
1:g:90:LEU:HD22	1:g:113:LEU:HD22	1.86	0.57
1:l:393:LEU:HD23	1:l:396:LEU:HD12	1.86	0.57
1:w:393:LEU:HD23	1:w:396:LEU:HD12	1.85	0.57
1:H:90:LEU:HD22	1:H:113:LEU:HD22	1.86	0.57
1:I:101:PHE:CE2	1:i:98:LYS:HG3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:32:ASP:HB2	1:Z:47:ARG:HB3	1.87	0.57
1:m:90:LEU:HD22	1:m:113:LEU:HD22	1.86	0.57
1:n:230:ALA:HB2	1:o:209:HIS:ND1	2.20	0.57
1:2:32:ASP:HB2	1:2:47:ARG:HB3	1.87	0.57
1:2:393:LEU:HD23	1:2:396:LEU:HD12	1.85	0.57
1:8:393:LEU:HD23	1:8:396:LEU:HD12	1.85	0.57
1:R:32:ASP:HB2	1:R:47:ARG:HB3	1.87	0.57
1:h:368:GLY:HA3	1:i:400:TYR:CG	2.40	0.57
1:v:90:LEU:HD22	1:v:113:LEU:HD22	1.86	0.57
1:5:62:LYS:HE2	1:5:137:GLN:HA	1.87	0.57
1:7:90:LEU:HD22	1:7:113:LEU:HD22	1.86	0.57
1:K:90:LEU:HD22	1:K:113:LEU:HD22	1.86	0.57
1:M:90:LEU:HD22	1:M:113:LEU:HD22	1.86	0.57
1:Q:90:LEU:HD22	1:Q:113:LEU:HD22	1.86	0.57
1:R:393:LEU:HD23	1:R:396:LEU:HD12	1.85	0.57
1:S:90:LEU:HD22	1:S:113:LEU:HD22	1.86	0.57
1:U:230:ALA:HB2	1:V:209:HIS:ND1	2.20	0.57
1:Z:393:LEU:HD23	1:Z:396:LEU:HD12	1.85	0.57
1:i:90:LEU:HD22	1:i:113:LEU:HD22	1.86	0.57
1:o:393:LEU:HD23	1:o:396:LEU:HD12	1.85	0.57
1:x:393:LEU:HD23	1:x:396:LEU:HD12	1.85	0.57
1:3:32:ASP:HB2	1:3:47:ARG:HB3	1.87	0.56
1:F:62:LYS:HE2	1:F:137:GLN:HA	1.87	0.56
1:M:32:ASP:HB2	1:M:47:ARG:HB3	1.87	0.56
1:M:62:LYS:HE2	1:M:137:GLN:HA	1.87	0.56
1:N:90:LEU:HD22	1:N:113:LEU:HD22	1.86	0.56
1:Y:392:LEU:HA	1:Y:395:LYS:HZ3	1.70	0.56
1:d:62:LYS:HE2	1:d:137:GLN:HA	1.87	0.56
1:k:62:LYS:HE2	1:k:137:GLN:HA	1.87	0.56
1:l:90:LEU:HD22	1:l:113:LEU:HD22	1.86	0.56
1:w:230:ALA:HB2	1:x:209:HIS:ND1	2.20	0.56
1:z:90:LEU:HD22	1:z:113:LEU:HD22	1.86	0.56
1:4:90:LEU:HD22	1:4:113:LEU:HD22	1.86	0.56
1:7:62:LYS:HE2	1:7:137:GLN:HA	1.87	0.56
1:8:90:LEU:HD22	1:8:113:LEU:HD22	1.86	0.56
1:I:32:ASP:HB2	1:I:47:ARG:HB3	1.87	0.56
1:J:32:ASP:HB2	1:J:47:ARG:HB3	1.87	0.56
1:K:32:ASP:HB2	1:K:47:ARG:HB3	1.87	0.56
1:O:32:ASP:HB2	1:O:47:ARG:HB3	1.87	0.56
1:R:90:LEU:HD22	1:R:113:LEU:HD22	1.86	0.56
1:S:62:LYS:HE2	1:S:137:GLN:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:62:LYS:HE2	1:Y:137:GLN:HA	1.88	0.56
1:m:393:LEU:HD23	1:m:396:LEU:HD12	1.86	0.56
1:v:62:LYS:HE2	1:v:137:GLN:HA	1.87	0.56
1:0:62:LYS:HE2	1:0:137:GLN:HA	1.87	0.56
1:1:32:ASP:HB2	1:1:47:ARG:HB3	1.87	0.56
1:1:62:LYS:HE2	1:1:137:GLN:HA	1.88	0.56
1:1:209:HIS:NE2	1:2:226:ASP:OD2	2.39	0.56
1:3:62:LYS:HE2	1:3:137:GLN:HA	1.88	0.56
1:6:90:LEU:HD22	1:6:113:LEU:HD22	1.86	0.56
1:8:32:ASP:HB2	1:8:47:ARG:HB3	1.87	0.56
1:B:62:LYS:HE2	1:B:137:GLN:HA	1.87	0.56
1:I:62:LYS:HE2	1:I:137:GLN:HA	1.88	0.56
1:J:62:LYS:HE2	1:J:137:GLN:HA	1.88	0.56
1:K:62:LYS:HE2	1:K:137:GLN:HA	1.88	0.56
1:L:62:LYS:HE2	1:L:137:GLN:HA	1.88	0.56
1:N:191:LYS:HA	1:N:194:HIS:CD2	2.41	0.56
1:O:62:LYS:HE2	1:O:137:GLN:HA	1.88	0.56
1:P:393:LEU:HD23	1:P:396:LEU:HD12	1.85	0.56
1:T:32:ASP:HB2	1:T:47:ARG:HB3	1.87	0.56
1:U:62:LYS:HE2	1:U:137:GLN:HA	1.87	0.56
1:W:62:LYS:HE2	1:W:137:GLN:HA	1.87	0.56
1:c:62:LYS:HE2	1:c:137:GLN:HA	1.87	0.56
1:e:144:ASP:HA	1:e:147:ARG:HE	1.71	0.56
1:h:32:ASP:HB2	1:h:47:ARG:HB3	1.87	0.56
1:h:62:LYS:HE2	1:h:137:GLN:HA	1.88	0.56
1:h:90:LEU:HD22	1:h:113:LEU:HD22	1.86	0.56
1:i:191:LYS:HA	1:i:194:HIS:CD2	2.41	0.56
1:k:90:LEU:HD22	1:k:113:LEU:HD22	1.86	0.56
1:p:62:LYS:HE2	1:p:137:GLN:HA	1.87	0.56
1:r:209:HIS:NE2	1:s:226:ASP:OD2	2.38	0.56
1:u:32:ASP:HB2	1:u:47:ARG:HB3	1.87	0.56
1:u:62:LYS:HE2	1:u:137:GLN:HA	1.87	0.56
1:w:90:LEU:HD22	1:w:113:LEU:HD22	1.86	0.56
1:y:392:LEU:HA	1:y:395:LYS:HZ3	1.69	0.56
1:z:32:ASP:HB2	1:z:47:ARG:HB3	1.87	0.56
1:3:90:LEU:HD22	1:3:113:LEU:HD22	1.86	0.56
1:4:32:ASP:HB2	1:4:47:ARG:HB3	1.87	0.56
1:4:62:LYS:HE2	1:4:137:GLN:HA	1.87	0.56
1:4:144:ASP:HA	1:4:147:ARG:HE	1.71	0.56
1:5:90:LEU:HD22	1:5:113:LEU:HD22	1.86	0.56
1:6:32:ASP:HB2	1:6:47:ARG:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:191:LYS:HA	1:6:194:HIS:CD2	2.41	0.56
1:A:191:LYS:HA	1:A:194:HIS:CD2	2.41	0.56
1:E:62:LYS:HE2	1:E:137:GLN:HA	1.88	0.56
1:G:144:ASP:HA	1:G:147:ARG:HE	1.71	0.56
1:I:90:LEU:HD22	1:I:113:LEU:HD22	1.86	0.56
1:L:144:ASP:HA	1:L:147:ARG:HE	1.71	0.56
1:P:144:ASP:HA	1:P:147:ARG:HE	1.71	0.56
1:P:191:LYS:HA	1:P:194:HIS:CD2	2.41	0.56
1:Q:62:LYS:HE2	1:Q:137:GLN:HA	1.87	0.56
1:V:191:LYS:HA	1:V:194:HIS:CD2	2.41	0.56
1:Y:90:LEU:HD22	1:Y:113:LEU:HD22	1.86	0.56
1:f:144:ASP:HA	1:f:147:ARG:HE	1.71	0.56
1:h:368:GLY:HA2	1:i:400:TYR:CG	2.40	0.56
1:i:62:LYS:HE2	1:i:137:GLN:HA	1.87	0.56
1:l:32:ASP:HB2	1:l:47:ARG:HB3	1.87	0.56
1:m:191:LYS:HA	1:m:194:HIS:CD2	2.41	0.56
1:t:144:ASP:HA	1:t:147:ARG:HE	1.71	0.56
1:x:62:LYS:HE2	1:x:137:GLN:HA	1.87	0.56
1:x:144:ASP:HA	1:x:147:ARG:HE	1.71	0.56
1:z:144:ASP:HA	1:z:147:ARG:HE	1.71	0.56
1:5:191:LYS:HA	1:5:194:HIS:CD2	2.41	0.56
1:9:62:LYS:HE2	1:9:137:GLN:HA	1.88	0.56
1:AB:62:LYS:HE2	1:AB:137:GLN:HA	1.87	0.56
1:B:191:LYS:HA	1:B:194:HIS:CD2	2.41	0.56
1:F:191:LYS:HA	1:F:194:HIS:CD2	2.41	0.56
1:H:32:ASP:HB2	1:H:47:ARG:HB3	1.87	0.56
1:H:62:LYS:HE2	1:H:137:GLN:HA	1.87	0.56
1:J:144:ASP:HA	1:J:147:ARG:HE	1.71	0.56
1:Z:62:LYS:HE2	1:Z:137:GLN:HA	1.88	0.56
1:c:191:LYS:HA	1:c:194:HIS:CD2	2.41	0.56
1:g:191:LYS:HA	1:g:194:HIS:CD2	2.41	0.56
1:j:144:ASP:HA	1:j:147:ARG:HE	1.71	0.56
1:u:90:LEU:HD22	1:u:113:LEU:HD22	1.86	0.56
1:u:144:ASP:HA	1:u:147:ARG:HE	1.71	0.56
1:x:90:LEU:HD22	1:x:113:LEU:HD22	1.86	0.56
1:y:144:ASP:HA	1:y:147:ARG:HE	1.71	0.56
1:z:62:LYS:HE2	1:z:137:GLN:HA	1.87	0.56
1:2:191:LYS:HA	1:2:194:HIS:CD2	2.41	0.56
1:AB:191:LYS:HA	1:AB:194:HIS:CD2	2.41	0.56
1:N:144:ASP:HA	1:N:147:ARG:HE	1.71	0.56
1:W:191:LYS:HA	1:W:194:HIS:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:144:ASP:HA	1:Z:147:ARG:HE	1.71	0.56
1:g:62:LYS:HE2	1:g:137:GLN:HA	1.87	0.56
1:j:32:ASP:HB2	1:j:47:ARG:HB3	1.87	0.56
1:k:32:ASP:HB2	1:k:47:ARG:HB3	1.87	0.56
1:w:32:ASP:HB2	1:w:47:ARG:HB3	1.87	0.56
1:w:62:LYS:HE2	1:w:137:GLN:HA	1.88	0.56
1:w:144:ASP:HA	1:w:147:ARG:HE	1.71	0.56
1:w:392:LEU:HA	1:w:395:LYS:HZ3	1.70	0.56
1:x:32:ASP:HB2	1:x:47:ARG:HB3	1.87	0.56
1:y:62:LYS:HE2	1:y:137:GLN:HA	1.88	0.56
1:0:191:LYS:HA	1:0:194:HIS:CD2	2.41	0.56
1:2:144:ASP:HA	1:2:147:ARG:HE	1.71	0.56
1:7:191:LYS:HA	1:7:194:HIS:CD2	2.41	0.56
1:9:191:LYS:HA	1:9:194:HIS:CD2	2.41	0.56
1:A:62:LYS:HE2	1:A:137:GLN:HA	1.87	0.56
1:C:62:LYS:HE2	1:C:137:GLN:HA	1.88	0.56
1:E:144:ASP:HA	1:E:147:ARG:HE	1.71	0.56
1:J:90:LEU:HD22	1:J:113:LEU:HD22	1.86	0.56
1:K:392:LEU:HA	1:K:395:LYS:HZ3	1.71	0.56
1:N:62:LYS:HE2	1:N:137:GLN:HA	1.88	0.56
1:P:62:LYS:HE2	1:P:137:GLN:HA	1.87	0.56
1:a:62:LYS:HE2	1:a:137:GLN:HA	1.88	0.56
1:a:209:HIS:NE2	1:b:226:ASP:OD2	2.39	0.56
1:c:397:GLU:OE2	1:d:372:HIS:NE2	2.38	0.56
1:j:90:LEU:HD22	1:j:113:LEU:HD22	1.86	0.56
1:l:191:LYS:HA	1:l:194:HIS:CD2	2.41	0.56
1:n:62:LYS:HE2	1:n:137:GLN:HA	1.88	0.56
1:n:144:ASP:HA	1:n:147:ARG:HE	1.71	0.56
1:v:144:ASP:HA	1:v:147:ARG:HE	1.71	0.56
1:1:191:LYS:HA	1:1:194:HIS:CD2	2.41	0.56
1:C:191:LYS:HA	1:C:194:HIS:CD2	2.41	0.56
1:L:90:LEU:HD22	1:L:113:LEU:HD22	1.86	0.56
1:Q:191:LYS:HA	1:Q:194:HIS:CD2	2.41	0.56
1:R:191:LYS:HA	1:R:194:HIS:CD2	2.41	0.56
1:S:191:LYS:HA	1:S:194:HIS:CD2	2.41	0.56
1:U:144:ASP:HA	1:U:147:ARG:HE	1.71	0.56
1:Y:32:ASP:HB2	1:Y:47:ARG:HB3	1.87	0.56
1:a:191:LYS:HA	1:a:194:HIS:CD2	2.41	0.56
1:b:32:ASP:HB2	1:b:47:ARG:HB3	1.87	0.56
1:d:32:ASP:HB2	1:d:47:ARG:HB3	1.87	0.56
1:f:62:LYS:HE2	1:f:137:GLN:HA	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:j:191:LYS:HA	1:j:194:HIS:CD2	2.41	0.56
1:l:144:ASP:HA	1:l:147:ARG:HE	1.71	0.56
1:m:144:ASP:HA	1:m:147:ARG:HE	1.71	0.56
1:o:191:LYS:HA	1:o:194:HIS:CD2	2.41	0.56
1:r:62:LYS:HE2	1:r:137:GLN:HA	1.87	0.56
1:r:191:LYS:HA	1:r:194:HIS:CD2	2.41	0.56
1:v:32:ASP:HB2	1:v:47:ARG:HB3	1.87	0.56
1:y:90:LEU:HD22	1:y:113:LEU:HD22	1.86	0.56
1:2:62:LYS:HE2	1:2:137:GLN:HA	1.88	0.56
1:4:191:LYS:HA	1:4:194:HIS:CD2	2.41	0.56
1:9:32:ASP:HB2	1:9:47:ARG:HB3	1.87	0.56
1:9:144:ASP:HA	1:9:147:ARG:HE	1.71	0.56
1:AA:191:LYS:HA	1:AA:194:HIS:CD2	2.41	0.56
1:AB:144:ASP:HA	1:AB:147:ARG:HE	1.71	0.56
1:B:32:ASP:HB2	1:B:47:ARG:HB3	1.87	0.56
1:D:62:LYS:HE2	1:D:137:GLN:HA	1.88	0.56
1:H:144:ASP:HA	1:H:147:ARG:HE	1.71	0.56
1:K:144:ASP:HA	1:K:147:ARG:HE	1.71	0.56
1:N:32:ASP:HB2	1:N:47:ARG:HB3	1.87	0.56
1:P:90:LEU:HD22	1:P:113:LEU:HD22	1.86	0.56
1:S:32:ASP:HB2	1:S:47:ARG:HB3	1.87	0.56
1:T:144:ASP:HA	1:T:147:ARG:HE	1.71	0.56
1:Z:191:LYS:HA	1:Z:194:HIS:CD2	2.41	0.56
1:o:32:ASP:HB2	1:o:47:ARG:HB3	1.87	0.56
1:y:191:LYS:HA	1:y:194:HIS:CD2	2.41	0.56
1:C:144:ASP:HA	1:C:147:ARG:HE	1.71	0.56
1:G:88:PRO:HB2	1:G:116:PHE:HD1	1.71	0.56
1:W:144:ASP:HA	1:W:147:ARG:HE	1.71	0.56
1:Y:191:LYS:HA	1:Y:194:HIS:CD2	2.41	0.56
1:a:144:ASP:HA	1:a:147:ARG:HE	1.71	0.56
1:a:392:LEU:HA	1:a:395:LYS:HZ3	1.71	0.56
1:c:88:PRO:HB2	1:c:116:PHE:HD1	1.72	0.56
1:e:62:LYS:HE2	1:e:137:GLN:HA	1.88	0.56
1:e:88:PRO:HB2	1:e:116:PHE:HD1	1.71	0.56
1:f:88:PRO:HB2	1:f:116:PHE:HD1	1.72	0.56
1:n:88:PRO:HB2	1:n:116:PHE:HD1	1.71	0.56
1:p:191:LYS:HA	1:p:194:HIS:CD2	2.41	0.56
1:s:144:ASP:HA	1:s:147:ARG:HE	1.71	0.56
1:t:32:ASP:HB2	1:t:47:ARG:HB3	1.87	0.56
1:t:62:LYS:HE2	1:t:137:GLN:HA	1.88	0.56
1:x:191:LYS:HA	1:x:194:HIS:CD2	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:90:LEU:HD22	1:1:113:LEU:HD22	1.86	0.55
1:3:191:LYS:HA	1:3:194:HIS:CD2	2.41	0.55
1:8:144:ASP:HA	1:8:147:ARG:HE	1.71	0.55
1:8:191:LYS:HA	1:8:194:HIS:CD2	2.41	0.55
1:A:88:PRO:HB2	1:A:116:PHE:HD1	1.72	0.55
1:G:62:LYS:HE2	1:G:137:GLN:HA	1.87	0.55
1:M:209:HIS:NE2	1:N:226:ASP:OD2	2.39	0.55
1:R:144:ASP:HA	1:R:147:ARG:HE	1.71	0.55
1:T:320:ARG:HG3	1:W:185:THR:OG1	2.07	0.55
1:U:88:PRO:HB2	1:U:116:PHE:HD1	1.71	0.55
1:U:191:LYS:HA	1:U:194:HIS:CD2	2.41	0.55
1:W:88:PRO:HB2	1:W:116:PHE:HD1	1.71	0.55
1:d:144:ASP:HA	1:d:147:ARG:HE	1.71	0.55
1:e:32:ASP:HB2	1:e:47:ARG:HB3	1.87	0.55
1:f:368:GLY:HA2	1:g:400:TYR:CD2	2.40	0.55
1:g:144:ASP:HA	1:g:147:ARG:HE	1.71	0.55
1:h:191:LYS:HA	1:h:194:HIS:CD2	2.41	0.55
1:k:88:PRO:HB2	1:k:116:PHE:HD1	1.71	0.55
1:p:88:PRO:HB2	1:p:116:PHE:HD1	1.71	0.55
1:p:144:ASP:HA	1:p:147:ARG:HE	1.71	0.55
1:0:144:ASP:HA	1:0:147:ARG:HE	1.71	0.55
1:0:185:THR:OG1	1:8:320:ARG:HG3	2.06	0.55
1:A:32:ASP:HB2	1:A:47:ARG:HB3	1.87	0.55
1:AA:88:PRO:HB2	1:AA:116:PHE:HD1	1.72	0.55
1:C:88:PRO:HB2	1:C:116:PHE:HD1	1.72	0.55
1:E:88:PRO:HB2	1:E:116:PHE:HD1	1.71	0.55
1:E:191:LYS:HA	1:E:194:HIS:CD2	2.41	0.55
1:H:320:ARG:HG3	1:K:185:THR:OG1	2.07	0.55
1:J:191:LYS:HA	1:J:194:HIS:CD2	2.41	0.55
1:M:191:LYS:HA	1:M:194:HIS:CD2	2.41	0.55
1:P:32:ASP:HB2	1:P:47:ARG:HB3	1.87	0.55
1:Q:32:ASP:HB2	1:Q:47:ARG:HB3	1.87	0.55
1:T:191:LYS:HA	1:T:194:HIS:CD2	2.41	0.55
1:V:62:LYS:HE2	1:V:137:GLN:HA	1.88	0.55
1:Y:386:ALA:HB1	1:Y:390:ARG:HH12	1.72	0.55
1:a:88:PRO:HB2	1:a:116:PHE:HD1	1.72	0.55
1:b:191:LYS:HA	1:b:194:HIS:CD2	2.41	0.55
1:h:144:ASP:HA	1:h:147:ARG:HE	1.71	0.55
1:n:191:LYS:HA	1:n:194:HIS:CD2	2.41	0.55
1:o:62:LYS:HE2	1:o:137:GLN:HA	1.87	0.55
1:r:32:ASP:HB2	1:r:47:ARG:HB3	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:144:ASP:HA	1:r:147:ARG:HE	1.71	0.55
1:v:191:LYS:HA	1:v:194:HIS:CD2	2.41	0.55
1:0:32:ASP:HB2	1:0:47:ARG:HB3	1.87	0.55
1:1:386:ALA:HB1	1:1:390:ARG:HH12	1.72	0.55
1:3:386:ALA:HB1	1:3:390:ARG:HH12	1.72	0.55
1:6:144:ASP:HA	1:6:147:ARG:HE	1.71	0.55
1:AB:32:ASP:HB2	1:AB:47:ARG:HB3	1.87	0.55
1:I:386:ALA:HB1	1:I:390:ARG:HH12	1.72	0.55
1:L:332:ARG:HA	1:L:335:LYS:HE2	1.89	0.55
1:M:386:ALA:HB1	1:M:390:ARG:HH12	1.72	0.55
1:M:392:LEU:HA	1:M:395:LYS:HZ3	1.72	0.55
1:O:88:PRO:HB2	1:O:116:PHE:HD1	1.72	0.55
1:U:32:ASP:HB2	1:U:47:ARG:HB3	1.87	0.55
1:a:32:ASP:HB2	1:a:47:ARG:HB3	1.87	0.55
1:c:32:ASP:HB2	1:c:47:ARG:HB3	1.87	0.55
1:d:191:LYS:HA	1:d:194:HIS:CD2	2.41	0.55
1:j:62:LYS:HE2	1:j:137:GLN:HA	1.88	0.55
1:k:191:LYS:HA	1:k:194:HIS:CD2	2.41	0.55
1:r:88:PRO:HB2	1:r:116:PHE:HD1	1.71	0.55
1:s:62:LYS:HE2	1:s:137:GLN:HA	1.87	0.55
1:t:88:PRO:HB2	1:t:116:PHE:HD1	1.72	0.55
1:5:32:ASP:HB2	1:5:47:ARG:HB3	1.87	0.55
1:5:386:ALA:HB1	1:5:390:ARG:HH12	1.72	0.55
1:D:144:ASP:HA	1:D:147:ARG:HE	1.71	0.55
1:I:144:ASP:HA	1:I:147:ARG:HE	1.71	0.55
1:I:191:LYS:HA	1:I:194:HIS:CD2	2.41	0.55
1:O:144:ASP:HA	1:O:147:ARG:HE	1.71	0.55
1:O:386:ALA:HB1	1:O:390:ARG:HH12	1.72	0.55
1:S:88:PRO:HB2	1:S:116:PHE:HD1	1.72	0.55
1:X:88:PRO:HB2	1:X:116:PHE:HD1	1.71	0.55
1:X:191:LYS:HA	1:X:194:HIS:CD2	2.41	0.55
1:b:62:LYS:HE2	1:b:137:GLN:HA	1.88	0.55
1:k:144:ASP:HA	1:k:147:ARG:HE	1.71	0.55
1:m:32:ASP:HB2	1:m:47:ARG:HB3	1.87	0.55
1:u:332:ARG:HA	1:u:335:LYS:HE2	1.89	0.55
1:u:392:LEU:HA	1:u:395:LYS:HZ3	1.71	0.55
1:v:320:ARG:HG3	1:y:185:THR:OG1	2.07	0.55
1:y:332:ARG:HA	1:y:335:LYS:HE2	1.89	0.55
1:0:88:PRO:HB2	1:0:116:PHE:HD1	1.72	0.55
1:7:386:ALA:HB1	1:7:390:ARG:HH12	1.72	0.55
1:8:62:LYS:HE2	1:8:137:GLN:HA	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:88:PRO:HB2	1:AB:116:PHE:HD1	1.72	0.55
1:G:191:LYS:HA	1:G:194:HIS:CD2	2.41	0.55
1:H:332:ARG:HA	1:H:335:LYS:HE2	1.89	0.55
1:I:332:ARG:HA	1:I:335:LYS:HE2	1.89	0.55
1:K:88:PRO:HB2	1:K:116:PHE:HD1	1.71	0.55
1:M:88:PRO:HB2	1:M:116:PHE:HD1	1.72	0.55
1:V:392:LEU:HA	1:V:395:LYS:HZ3	1.71	0.55
1:a:332:ARG:HA	1:a:335:LYS:HE2	1.89	0.55
1:b:88:PRO:HB2	1:b:116:PHE:HD1	1.72	0.55
1:b:294:THR:HA	1:b:297:LYS:HE3	1.89	0.55
1:c:182:VAL:HG21	1:o:318:LEU:HG	1.88	0.55
1:f:191:LYS:HA	1:f:194:HIS:CD2	2.41	0.55
1:h:386:ALA:HB1	1:h:390:ARG:HH12	1.72	0.55
1:i:32:ASP:HB2	1:i:47:ARG:HB3	1.87	0.55
1:i:88:PRO:HB2	1:i:116:PHE:HD1	1.71	0.55
1:r:332:ARG:HA	1:r:335:LYS:HE2	1.89	0.55
1:s:332:ARG:HA	1:s:335:LYS:HE2	1.89	0.55
1:t:191:LYS:HA	1:t:194:HIS:CD2	2.41	0.55
1:w:191:LYS:HA	1:w:194:HIS:CD2	2.41	0.55
1:w:209:HIS:CD2	1:x:226:ASP:OD2	2.60	0.55
1:y:88:PRO:HB2	1:y:116:PHE:HD1	1.72	0.55
1:y:294:THR:HA	1:y:297:LYS:HE3	1.89	0.55
1:3:88:PRO:HB2	1:3:116:PHE:HD1	1.71	0.55
1:6:62:LYS:HE2	1:6:137:GLN:HA	1.88	0.55
1:9:88:PRO:HB2	1:9:116:PHE:HD1	1.72	0.55
1:A:144:ASP:HA	1:A:147:ARG:HE	1.71	0.55
1:AB:332:ARG:HA	1:AB:335:LYS:HE2	1.89	0.55
1:B:144:ASP:HA	1:B:147:ARG:HE	1.71	0.55
1:C:32:ASP:HB2	1:C:47:ARG:HB3	1.87	0.55
1:D:294:THR:HA	1:D:297:LYS:HE3	1.89	0.55
1:E:332:ARG:HA	1:E:335:LYS:HE2	1.89	0.55
1:G:32:ASP:HB2	1:G:47:ARG:HB3	1.87	0.55
1:K:294:THR:HA	1:K:297:LYS:HE3	1.89	0.55
1:M:144:ASP:HA	1:M:147:ARG:HE	1.71	0.55
1:Q:88:PRO:HB2	1:Q:116:PHE:HD1	1.72	0.55
1:Q:144:ASP:HA	1:Q:147:ARG:HE	1.71	0.55
1:R:88:PRO:HB2	1:R:116:PHE:HD1	1.71	0.55
1:T:62:LYS:HE2	1:T:137:GLN:HA	1.87	0.55
1:U:332:ARG:HA	1:U:335:LYS:HE2	1.89	0.55
1:X:45:SER:HA	1:X:67:ARG:HA	1.89	0.55
1:X:294:THR:HA	1:X:297:LYS:HE3	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:332:ARG:HA	1:Z:335:LYS:HE2	1.89	0.55
1:b:332:ARG:HA	1:b:335:LYS:HE2	1.89	0.55
1:e:294:THR:HA	1:e:297:LYS:HE3	1.89	0.55
1:e:332:ARG:HA	1:e:335:LYS:HE2	1.89	0.55
1:g:88:PRO:HB2	1:g:116:PHE:HD1	1.71	0.55
1:l:62:LYS:HE2	1:l:137:GLN:HA	1.88	0.55
1:q:32:ASP:HB2	1:q:47:ARG:HB3	1.87	0.55
1:q:144:ASP:HA	1:q:147:ARG:HE	1.71	0.55
1:t:294:THR:HA	1:t:297:LYS:HE3	1.89	0.55
1:t:332:ARG:HA	1:t:335:LYS:HE2	1.89	0.55
1:w:332:ARG:HA	1:w:335:LYS:HE2	1.89	0.55
1:x:294:THR:HA	1:x:297:LYS:HE3	1.89	0.55
1:y:32:ASP:HB2	1:y:47:ARG:HB3	1.87	0.55
1:z:332:ARG:HA	1:z:335:LYS:HE2	1.89	0.55
1:3:144:ASP:HA	1:3:147:ARG:HE	1.71	0.55
1:6:88:PRO:HB2	1:6:116:PHE:HD1	1.72	0.55
1:8:294:THR:HA	1:8:297:LYS:HE3	1.89	0.55
1:9:332:ARG:HA	1:9:335:LYS:HE2	1.89	0.55
1:AA:32:ASP:HB2	1:AA:47:ARG:HB3	1.87	0.55
1:AA:386:ALA:HB1	1:AA:390:ARG:HH12	1.72	0.55
1:D:332:ARG:HA	1:D:335:LYS:HE2	1.89	0.55
1:G:294:THR:HA	1:G:297:LYS:HE3	1.89	0.55
1:G:332:ARG:HA	1:G:335:LYS:HE2	1.89	0.55
1:L:294:THR:HA	1:L:297:LYS:HE3	1.89	0.55
1:P:294:THR:HA	1:P:297:LYS:HE3	1.89	0.55
1:P:332:ARG:HA	1:P:335:LYS:HE2	1.89	0.55
1:Q:386:ALA:HB1	1:Q:390:ARG:HH12	1.72	0.55
1:V:88:PRO:HB2	1:V:116:PHE:HD1	1.72	0.55
1:W:332:ARG:HA	1:W:335:LYS:HE2	1.89	0.55
1:X:332:ARG:HA	1:X:335:LYS:HE2	1.89	0.55
1:Z:294:THR:HA	1:Z:297:LYS:HE3	1.89	0.55
1:b:144:ASP:HA	1:b:147:ARG:HE	1.71	0.55
1:h:88:PRO:HB2	1:h:116:PHE:HD1	1.72	0.55
1:n:332:ARG:HA	1:n:335:LYS:HE2	1.89	0.55
1:o:45:SER:HA	1:o:67:ARG:HA	1.89	0.55
1:s:294:THR:HA	1:s:297:LYS:HE3	1.89	0.55
1:u:191:LYS:HA	1:u:194:HIS:CD2	2.41	0.55
1:v:332:ARG:HA	1:v:335:LYS:HE2	1.89	0.55
1:w:88:PRO:HB2	1:w:116:PHE:HD1	1.72	0.55
1:3:332:ARG:HA	1:3:335:LYS:HE2	1.89	0.55
1:5:144:ASP:HA	1:5:147:ARG:HE	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:332:ARG:HA	1:C:335:LYS:HE2	1.89	0.55
1:F:144:ASP:HA	1:F:147:ARG:HE	1.71	0.55
1:J:332:ARG:HA	1:J:335:LYS:HE2	1.89	0.55
1:K:332:ARG:HA	1:K:335:LYS:HE2	1.89	0.55
1:L:32:ASP:HB2	1:L:47:ARG:HB3	1.87	0.55
1:L:191:LYS:HA	1:L:194:HIS:CD2	2.41	0.55
1:R:62:LYS:HE2	1:R:137:GLN:HA	1.88	0.55
1:S:144:ASP:HA	1:S:147:ARG:HE	1.71	0.55
1:X:62:LYS:HE2	1:X:137:GLN:HA	1.87	0.55
1:e:191:LYS:HA	1:e:194:HIS:CD2	2.41	0.55
1:g:32:ASP:HB2	1:g:47:ARG:HB3	1.87	0.55
1:o:144:ASP:HA	1:o:147:ARG:HE	1.71	0.55
1:q:294:THR:HA	1:q:297:LYS:HE3	1.89	0.55
1:v:294:THR:HA	1:v:297:LYS:HE3	1.89	0.55
1:w:294:THR:HA	1:w:297:LYS:HE3	1.89	0.55
1:x:332:ARG:HA	1:x:335:LYS:HE2	1.89	0.55
1:z:191:LYS:HA	1:z:194:HIS:CD2	2.41	0.55
1:1:144:ASP:HA	1:1:147:ARG:HE	1.71	0.55
1:2:294:THR:HA	1:2:297:LYS:HE3	1.89	0.55
1:5:218:ARG:HH12	1:5:260:LEU:HB3	1.72	0.55
1:6:308:LEU:HA	1:6:311:ILE:HD12	1.89	0.55
1:7:88:PRO:HB2	1:7:116:PHE:HD1	1.72	0.55
1:7:144:ASP:HA	1:7:147:ARG:HE	1.71	0.55
1:7:386:ALA:HB1	1:7:390:ARG:NH1	2.22	0.55
1:9:386:ALA:HB1	1:9:390:ARG:HH12	1.72	0.55
1:E:294:THR:HA	1:E:297:LYS:HE3	1.89	0.55
1:I:88:PRO:HB2	1:I:116:PHE:HD1	1.71	0.55
1:I:386:ALA:HB1	1:I:390:ARG:NH1	2.22	0.55
1:K:191:LYS:HA	1:K:194:HIS:CD2	2.41	0.55
1:K:386:ALA:HB1	1:K:390:ARG:HH12	1.72	0.55
1:L:386:ALA:HB1	1:L:390:ARG:NH1	2.22	0.55
1:M:332:ARG:HA	1:M:335:LYS:HE2	1.89	0.55
1:O:191:LYS:HA	1:O:194:HIS:CD2	2.41	0.55
1:S:386:ALA:HB1	1:S:390:ARG:HH12	1.72	0.55
1:T:218:ARG:HH12	1:T:260:LEU:HB3	1.72	0.55
1:X:144:ASP:HA	1:X:147:ARG:HE	1.71	0.55
1:Y:144:ASP:HA	1:Y:147:ARG:HE	1.71	0.55
1:f:332:ARG:HA	1:f:335:LYS:HE2	1.89	0.55
1:h:294:THR:HA	1:h:297:LYS:HE3	1.89	0.55
1:h:332:ARG:HA	1:h:335:LYS:HE2	1.89	0.55
1:k:386:ALA:HB1	1:k:390:ARG:HH12	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:218:ARG:HH12	1:l:260:LEU:HB3	1.72	0.55
1:m:62:LYS:HE2	1:m:137:GLN:HA	1.88	0.55
1:m:294:THR:HA	1:m:297:LYS:HE3	1.89	0.55
1:m:320:ARG:HG3	1:p:185:THR:OG1	2.07	0.55
1:p:392:LEU:HA	1:p:395:LYS:HZ3	1.72	0.55
1:q:62:LYS:HE2	1:q:137:GLN:HA	1.88	0.55
1:q:218:ARG:HH12	1:q:260:LEU:HB3	1.72	0.55
1:s:191:LYS:HA	1:s:194:HIS:CD2	2.41	0.55
1:x:308:LEU:HA	1:x:311:ILE:HD12	1.89	0.55
1:y:386:ALA:HB1	1:y:390:ARG:HH12	1.72	0.55
1:z:294:THR:HA	1:z:297:LYS:HE3	1.89	0.55
1:0:332:ARG:HA	1:0:335:LYS:HE2	1.89	0.55
1:1:332:ARG:HA	1:1:335:LYS:HE2	1.89	0.55
1:1:386:ALA:HB1	1:1:390:ARG:NH1	2.22	0.55
1:2:386:ALA:HB1	1:2:390:ARG:NH1	2.22	0.55
1:4:332:ARG:HA	1:4:335:LYS:HE2	1.89	0.55
1:4:386:ALA:HB1	1:4:390:ARG:NH1	2.22	0.55
1:5:88:PRO:HB2	1:5:116:PHE:HD1	1.71	0.55
1:5:332:ARG:HA	1:5:335:LYS:HE2	1.89	0.55
1:A:332:ARG:HA	1:A:335:LYS:HE2	1.89	0.55
1:AA:294:THR:HA	1:AA:297:LYS:HE3	1.89	0.55
1:AB:45:SER:HA	1:AB:67:ARG:HA	1.89	0.55
1:C:294:THR:HA	1:C:297:LYS:HE3	1.89	0.55
1:D:191:LYS:HA	1:D:194:HIS:CD2	2.41	0.55
1:E:32:ASP:HB2	1:E:47:ARG:HB3	1.87	0.55
1:F:32:ASP:HB2	1:F:47:ARG:HB3	1.87	0.55
1:F:218:ARG:HH12	1:F:260:LEU:HB3	1.72	0.55
1:J:294:THR:HA	1:J:297:LYS:HE3	1.89	0.55
1:N:218:ARG:HH12	1:N:260:LEU:HB3	1.72	0.55
1:N:294:THR:HA	1:N:297:LYS:HE3	1.89	0.55
1:O:332:ARG:HA	1:O:335:LYS:HE2	1.89	0.55
1:P:308:LEU:HA	1:P:311:ILE:HD12	1.89	0.55
1:Q:386:ALA:HB1	1:Q:390:ARG:NH1	2.22	0.55
1:R:218:ARG:HH12	1:R:260:LEU:HB3	1.72	0.55
1:U:209:HIS:CD2	1:V:226:ASP:OD2	2.60	0.55
1:U:294:THR:HA	1:U:297:LYS:HE3	1.89	0.55
1:d:386:ALA:HB1	1:d:390:ARG:NH1	2.22	0.55
1:m:218:ARG:HH12	1:m:260:LEU:HB3	1.72	0.55
1:o:218:ARG:HH12	1:o:260:LEU:HB3	1.72	0.55
1:p:332:ARG:HA	1:p:335:LYS:HE2	1.89	0.55
1:p:386:ALA:HB1	1:p:390:ARG:NH1	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:88:PRO:HB2	1:q:116:PHE:HD1	1.71	0.55
1:s:45:SER:HA	1:s:67:ARG:HA	1.89	0.55
1:s:218:ARG:HH12	1:s:260:LEU:HB3	1.72	0.55
1:v:88:PRO:HB2	1:v:116:PHE:HD1	1.71	0.55
1:1:88:PRO:HB2	1:1:116:PHE:HD1	1.72	0.54
1:2:88:PRO:HB2	1:2:116:PHE:HD1	1.72	0.54
1:3:218:ARG:HH12	1:3:260:LEU:HB3	1.72	0.54
1:3:386:ALA:HB1	1:3:390:ARG:NH1	2.22	0.54
1:4:294:THR:HA	1:4:297:LYS:HE3	1.89	0.54
1:5:386:ALA:HB1	1:5:390:ARG:NH1	2.23	0.54
1:7:32:ASP:HB2	1:7:47:ARG:HB3	1.87	0.54
1:8:308:LEU:HA	1:8:311:ILE:HD12	1.89	0.54
1:AA:332:ARG:HA	1:AA:335:LYS:HE2	1.89	0.54
1:E:386:ALA:HB1	1:E:390:ARG:NH1	2.23	0.54
1:G:218:ARG:HH12	1:G:260:LEU:HB3	1.72	0.54
1:H:191:LYS:HA	1:H:194:HIS:CD2	2.41	0.54
1:H:386:ALA:HB1	1:H:390:ARG:NH1	2.23	0.54
1:K:308:LEU:HA	1:K:311:ILE:HD12	1.89	0.54
1:K:386:ALA:HB1	1:K:390:ARG:NH1	2.22	0.54
1:M:218:ARG:HH12	1:M:260:LEU:HB3	1.72	0.54
1:N:332:ARG:HA	1:N:335:LYS:HE2	1.89	0.54
1:R:294:THR:HA	1:R:297:LYS:HE3	1.89	0.54
1:R:308:LEU:HA	1:R:311:ILE:HD12	1.89	0.54
1:S:332:ARG:HA	1:S:335:LYS:HE2	1.89	0.54
1:T:294:THR:HA	1:T:297:LYS:HE3	1.89	0.54
1:U:386:ALA:HB1	1:U:390:ARG:HH12	1.72	0.54
1:V:218:ARG:HH12	1:V:260:LEU:HB3	1.72	0.54
1:W:32:ASP:HB2	1:W:47:ARG:HB3	1.87	0.54
1:Y:332:ARG:HA	1:Y:335:LYS:HE2	1.89	0.54
1:Y:386:ALA:HB1	1:Y:390:ARG:NH1	2.23	0.54
1:Z:386:ALA:HB1	1:Z:390:ARG:NH1	2.22	0.54
1:b:386:ALA:HB1	1:b:390:ARG:HH12	1.72	0.54
1:c:144:ASP:HA	1:c:147:ARG:HE	1.71	0.54
1:f:386:ALA:HB1	1:f:390:ARG:NH1	2.22	0.54
1:h:386:ALA:HB1	1:h:390:ARG:NH1	2.22	0.54
1:i:144:ASP:HA	1:i:147:ARG:HE	1.71	0.54
1:j:218:ARG:HH12	1:j:260:LEU:HB3	1.72	0.54
1:j:294:THR:HA	1:j:297:LYS:HE3	1.89	0.54
1:k:332:ARG:HA	1:k:335:LYS:HE2	1.89	0.54
1:l:386:ALA:HB1	1:l:390:ARG:HH12	1.72	0.54
1:m:386:ALA:HB1	1:m:390:ARG:HH12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:294:THR:HA	1:n:297:LYS:HE3	1.89	0.54
1:o:88:PRO:HB2	1:o:116:PHE:HD1	1.72	0.54
1:q:45:SER:HA	1:q:67:ARG:HA	1.89	0.54
1:q:332:ARG:HA	1:q:335:LYS:HE2	1.89	0.54
1:u:294:THR:HA	1:u:297:LYS:HE3	1.89	0.54
1:w:386:ALA:HB1	1:w:390:ARG:HH12	1.72	0.54
1:w:386:ALA:HB1	1:w:390:ARG:NH1	2.23	0.54
1:y:386:ALA:HB1	1:y:390:ARG:NH1	2.23	0.54
1:0:386:ALA:HB1	1:0:390:ARG:HH12	1.72	0.54
1:1:218:ARG:HH12	1:1:260:LEU:HB3	1.72	0.54
1:2:332:ARG:HA	1:2:335:LYS:HE2	1.89	0.54
1:7:218:ARG:HH12	1:7:260:LEU:HB3	1.72	0.54
1:8:45:SER:HA	1:8:67:ARG:HA	1.89	0.54
1:8:88:PRO:HB2	1:8:116:PHE:HD1	1.72	0.54
1:AA:144:ASP:HA	1:AA:147:ARG:HE	1.71	0.54
1:AB:294:THR:HA	1:AB:297:LYS:HE3	1.89	0.54
1:B:218:ARG:HH12	1:B:260:LEU:HB3	1.72	0.54
1:D:45:SER:HA	1:D:67:ARG:HA	1.89	0.54
1:F:386:ALA:HB1	1:F:390:ARG:NH1	2.22	0.54
1:J:386:ALA:HB1	1:J:390:ARG:NH1	2.22	0.54
1:M:386:ALA:HB1	1:M:390:ARG:NH1	2.22	0.54
1:O:392:LEU:HA	1:O:395:LYS:HZ3	1.73	0.54
1:P:218:ARG:HH12	1:P:260:LEU:HB3	1.72	0.54
1:S:386:ALA:HB1	1:S:390:ARG:NH1	2.23	0.54
1:T:332:ARG:HA	1:T:335:LYS:HE2	1.89	0.54
1:V:45:SER:HA	1:V:67:ARG:HA	1.89	0.54
1:V:144:ASP:HA	1:V:147:ARG:HE	1.71	0.54
1:X:32:ASP:HB2	1:X:47:ARG:HB3	1.87	0.54
1:X:386:ALA:HB1	1:X:390:ARG:HH12	1.72	0.54
1:X:392:LEU:HA	1:X:395:LYS:HZ3	1.72	0.54
1:a:45:SER:HA	1:a:67:ARG:HA	1.89	0.54
1:d:45:SER:HA	1:d:67:ARG:HA	1.89	0.54
1:g:386:ALA:HB1	1:g:390:ARG:NH1	2.22	0.54
1:j:308:LEU:HA	1:j:311:ILE:HD12	1.90	0.54
1:l:88:PRO:HB2	1:l:116:PHE:HD1	1.72	0.54
1:l:294:THR:HA	1:l:297:LYS:HE3	1.89	0.54
1:n:386:ALA:HB1	1:n:390:ARG:NH1	2.22	0.54
1:r:45:SER:HA	1:r:67:ARG:HA	1.89	0.54
1:r:294:THR:HA	1:r:297:LYS:HE3	1.89	0.54
1:z:386:ALA:HB1	1:z:390:ARG:HH12	1.72	0.54
1:7:332:ARG:HA	1:7:335:LYS:HE2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:386:ALA:HB1	1:B:390:ARG:NH1	2.23	0.54
1:D:218:ARG:HH12	1:D:260:LEU:HB3	1.72	0.54
1:E:45:SER:HA	1:E:67:ARG:HA	1.89	0.54
1:E:386:ALA:HB1	1:E:390:ARG:HH12	1.72	0.54
1:G:386:ALA:HB1	1:G:390:ARG:NH1	2.22	0.54
1:H:294:THR:HA	1:H:297:LYS:HE3	1.89	0.54
1:I:294:THR:HA	1:I:297:LYS:HE3	1.89	0.54
1:J:308:LEU:HA	1:J:311:ILE:HD12	1.90	0.54
1:L:308:LEU:HA	1:L:311:ILE:HD12	1.90	0.54
1:P:386:ALA:HB1	1:P:390:ARG:HH12	1.72	0.54
1:R:386:ALA:HB1	1:R:390:ARG:NH1	2.23	0.54
1:V:32:ASP:HB2	1:V:47:ARG:HB3	1.87	0.54
1:W:386:ALA:HB1	1:W:390:ARG:NH1	2.22	0.54
1:Y:294:THR:HA	1:Y:297:LYS:HE3	1.89	0.54
1:c:332:ARG:HA	1:c:335:LYS:HE2	1.89	0.54
1:e:45:SER:HA	1:e:67:ARG:HA	1.89	0.54
1:e:386:ALA:HB1	1:e:390:ARG:HH12	1.72	0.54
1:f:218:ARG:HH12	1:f:260:LEU:HB3	1.72	0.54
1:f:294:THR:HA	1:f:297:LYS:HE3	1.89	0.54
1:f:386:ALA:HB1	1:f:390:ARG:HH12	1.72	0.54
1:g:386:ALA:HB1	1:g:390:ARG:HH12	1.72	0.54
1:h:382:ALA:HB3	1:i:386:ALA:HB2	1.89	0.54
1:k:386:ALA:HB1	1:k:390:ARG:NH1	2.22	0.54
1:n:386:ALA:HB1	1:n:390:ARG:HH12	1.72	0.54
1:o:294:THR:HA	1:o:297:LYS:HE3	1.89	0.54
1:p:32:ASP:HB2	1:p:47:ARG:HB3	1.87	0.54
1:q:191:LYS:HA	1:q:194:HIS:CD2	2.41	0.54
1:s:32:ASP:HB2	1:s:47:ARG:HB3	1.87	0.54
1:t:218:ARG:HH12	1:t:260:LEU:HB3	1.72	0.54
1:t:386:ALA:HB1	1:t:390:ARG:HH12	1.72	0.54
1:w:218:ARG:HH12	1:w:260:LEU:HB3	1.72	0.54
1:x:386:ALA:HB1	1:x:390:ARG:HH12	1.72	0.54
1:z:88:PRO:HB2	1:z:116:PHE:HD1	1.71	0.54
1:z:386:ALA:HB1	1:z:390:ARG:NH1	2.22	0.54
1:0:294:THR:HA	1:0:297:LYS:HE3	1.89	0.54
1:3:294:THR:HA	1:3:297:LYS:HE3	1.89	0.54
1:4:386:ALA:HB1	1:4:390:ARG:HH12	1.72	0.54
1:6:294:THR:HA	1:6:297:LYS:HE3	1.89	0.54
1:AA:45:SER:HA	1:AA:67:ARG:HA	1.89	0.54
1:AA:62:LYS:HE2	1:AA:137:GLN:HA	1.88	0.54
1:D:32:ASP:HB2	1:D:47:ARG:HB3	1.87	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:88:PRO:HB2	1:D:116:PHE:HD1	1.71	0.54
1:G:386:ALA:HB1	1:G:390:ARG:HH12	1.72	0.54
1:N:386:ALA:HB1	1:N:390:ARG:NH1	2.22	0.54
1:O:45:SER:HA	1:O:67:ARG:HA	1.89	0.54
1:Q:332:ARG:HA	1:Q:335:LYS:HE2	1.89	0.54
1:T:386:ALA:HB1	1:T:390:ARG:NH1	2.22	0.54
1:V:294:THR:HA	1:V:297:LYS:HE3	1.89	0.54
1:W:294:THR:HA	1:W:297:LYS:HE3	1.89	0.54
1:W:386:ALA:HB1	1:W:390:ARG:HH12	1.72	0.54
1:Y:88:PRO:HB2	1:Y:116:PHE:HD1	1.71	0.54
1:a:294:THR:HA	1:a:297:LYS:HE3	1.89	0.54
1:d:88:PRO:HB2	1:d:116:PHE:HD1	1.72	0.54
1:d:218:ARG:HH12	1:d:260:LEU:HB3	1.72	0.54
1:d:294:THR:HA	1:d:297:LYS:HE3	1.89	0.54
1:f:45:SER:HA	1:f:67:ARG:HA	1.89	0.54
1:g:294:THR:HA	1:g:297:LYS:HE3	1.89	0.54
1:i:386:ALA:HB1	1:i:390:ARG:HH12	1.72	0.54
1:j:332:ARG:HA	1:j:335:LYS:HE2	1.89	0.54
1:p:294:THR:HA	1:p:297:LYS:HE3	1.89	0.54
1:x:218:ARG:HH12	1:x:260:LEU:HB3	1.72	0.54
1:x:386:ALA:HB1	1:x:390:ARG:NH1	2.22	0.54
1:3:45:SER:HA	1:3:67:ARG:HA	1.89	0.54
1:4:218:ARG:HH12	1:4:260:LEU:HB3	1.72	0.54
1:6:45:SER:HA	1:6:67:ARG:HA	1.89	0.54
1:8:218:ARG:HH12	1:8:260:LEU:HB3	1.72	0.54
1:8:332:ARG:HA	1:8:335:LYS:HE2	1.89	0.54
1:K:218:ARG:HH12	1:K:260:LEU:HB3	1.72	0.54
1:M:294:THR:HA	1:M:297:LYS:HE3	1.89	0.54
1:N:386:ALA:HB1	1:N:390:ARG:HH12	1.72	0.54
1:O:218:ARG:HH12	1:O:260:LEU:HB3	1.72	0.54
1:O:386:ALA:HB1	1:O:390:ARG:NH1	2.22	0.54
1:P:386:ALA:HB1	1:P:390:ARG:NH1	2.22	0.54
1:R:332:ARG:HA	1:R:335:LYS:HE2	1.89	0.54
1:U:386:ALA:HB1	1:U:390:ARG:NH1	2.22	0.54
1:X:218:ARG:HH12	1:X:260:LEU:HB3	1.72	0.54
1:e:386:ALA:HB1	1:e:390:ARG:NH1	2.23	0.54
1:j:386:ALA:HB1	1:j:390:ARG:HH12	1.72	0.54
1:n:32:ASP:HB2	1:n:47:ARG:HB3	1.87	0.54
1:n:45:SER:HA	1:n:67:ARG:HA	1.89	0.54
1:n:209:HIS:CD2	1:o:226:ASP:OD2	2.60	0.54
1:p:45:SER:HA	1:p:67:ARG:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:308:LEU:HA	1:w:311:ILE:HD12	1.90	0.54
1:1:45:SER:HA	1:1:67:ARG:HA	1.89	0.54
1:9:294:THR:HA	1:9:297:LYS:HE3	1.89	0.54
1:AB:386:ALA:HB1	1:AB:390:ARG:HH12	1.72	0.54
1:AB:386:ALA:HB1	1:AB:390:ARG:NH1	2.22	0.54
1:B:332:ARG:HA	1:B:335:LYS:HE2	1.89	0.54
1:C:218:ARG:HH12	1:C:260:LEU:HB3	1.72	0.54
1:J:88:PRO:HB2	1:J:116:PHE:HD1	1.72	0.54
1:L:386:ALA:HB1	1:L:390:ARG:HH12	1.72	0.54
1:O:308:LEU:HA	1:O:311:ILE:HD12	1.89	0.54
1:T:88:PRO:HB2	1:T:116:PHE:HD1	1.72	0.54
1:W:45:SER:HA	1:W:67:ARG:HA	1.89	0.54
1:Y:45:SER:HA	1:Y:67:ARG:HA	1.89	0.54
1:Y:218:ARG:HH12	1:Y:260:LEU:HB3	1.72	0.54
1:Z:386:ALA:HB1	1:Z:390:ARG:HH12	1.72	0.54
1:a:218:ARG:HH12	1:a:260:LEU:HB3	1.72	0.54
1:b:386:ALA:HB1	1:b:390:ARG:NH1	2.22	0.54
1:e:218:ARG:HH12	1:e:260:LEU:HB3	1.72	0.54
1:f:32:ASP:HB2	1:f:47:ARG:HB3	1.87	0.54
1:g:218:ARG:HH12	1:g:260:LEU:HB3	1.72	0.54
1:i:386:ALA:HB1	1:i:390:ARG:NH1	2.22	0.54
1:l:386:ALA:HB1	1:l:390:ARG:NH1	2.22	0.54
1:o:308:LEU:HA	1:o:311:ILE:HD12	1.90	0.54
1:p:386:ALA:HB1	1:p:390:ARG:HH12	1.72	0.54
1:s:88:PRO:HB2	1:s:116:PHE:HD1	1.72	0.54
1:u:88:PRO:HB2	1:u:116:PHE:HD1	1.72	0.54
1:u:386:ALA:HB1	1:u:390:ARG:HH12	1.72	0.54
1:y:218:ARG:HH12	1:y:260:LEU:HB3	1.72	0.54
1:z:308:LEU:HA	1:z:311:ILE:HD12	1.89	0.54
1:0:386:ALA:HB1	1:0:390:ARG:NH1	2.23	0.54
1:2:218:ARG:HH12	1:2:260:LEU:HB3	1.72	0.54
1:2:386:ALA:HB1	1:2:390:ARG:HH12	1.72	0.54
1:6:332:ARG:HA	1:6:335:LYS:HE2	1.89	0.54
1:6:386:ALA:HB1	1:6:390:ARG:NH1	2.23	0.54
1:8:386:ALA:HB1	1:8:390:ARG:NH1	2.23	0.54
1:B:45:SER:HA	1:B:67:ARG:HA	1.89	0.54
1:D:386:ALA:HB1	1:D:390:ARG:HH12	1.72	0.54
1:G:45:SER:HA	1:G:67:ARG:HA	1.89	0.54
1:R:45:SER:HA	1:R:67:ARG:HA	1.89	0.54
1:R:386:ALA:HB1	1:R:390:ARG:HH12	1.72	0.54
1:S:392:LEU:HA	1:S:395:LYS:HZ3	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:308:LEU:HA	1:T:311:ILE:HD12	1.90	0.54
1:a:386:ALA:HB1	1:a:390:ARG:HH12	1.72	0.54
1:c:386:ALA:HB1	1:c:390:ARG:NH1	2.22	0.54
1:h:308:LEU:HA	1:h:311:ILE:HD12	1.90	0.54
1:i:45:SER:HA	1:i:67:ARG:HA	1.89	0.54
1:i:294:THR:HA	1:i:297:LYS:HE3	1.89	0.54
1:l:332:ARG:HA	1:l:335:LYS:HE2	1.89	0.54
1:m:332:ARG:HA	1:m:335:LYS:HE2	1.89	0.54
1:r:386:ALA:HB1	1:r:390:ARG:NH1	2.22	0.54
1:t:386:ALA:HB1	1:t:390:ARG:NH1	2.23	0.54
1:u:386:ALA:HB1	1:u:390:ARG:NH1	2.23	0.54
1:y:308:LEU:HA	1:y:311:ILE:HD12	1.89	0.54
1:1:294:THR:HA	1:1:297:LYS:HE3	1.89	0.54
1:5:308:LEU:HA	1:5:311:ILE:HD12	1.89	0.54
1:6:218:ARG:HH12	1:6:260:LEU:HB3	1.72	0.54
1:A:45:SER:HA	1:A:67:ARG:HA	1.89	0.54
1:A:294:THR:HA	1:A:297:LYS:HE3	1.89	0.54
1:E:218:ARG:HH12	1:E:260:LEU:HB3	1.72	0.54
1:F:88:PRO:HB2	1:F:116:PHE:HD1	1.72	0.54
1:Z:88:PRO:HB2	1:Z:116:PHE:HD1	1.72	0.54
1:b:45:SER:HA	1:b:67:ARG:HA	1.89	0.54
1:m:386:ALA:HB1	1:m:390:ARG:NH1	2.22	0.54
1:o:332:ARG:HA	1:o:335:LYS:HE2	1.89	0.54
1:q:386:ALA:HB1	1:q:390:ARG:HH12	1.72	0.54
1:v:218:ARG:HH12	1:v:260:LEU:HB3	1.72	0.54
1:v:386:ALA:HB1	1:v:390:ARG:HH12	1.72	0.54
1:1:86:PHE:CG	1:1:285:ILE:HG12	2.43	0.54
1:2:86:PHE:CG	1:2:285:ILE:HG12	2.43	0.54
1:3:86:PHE:CG	1:3:285:ILE:HG12	2.43	0.54
1:4:86:PHE:CG	1:4:285:ILE:HG12	2.43	0.54
1:5:294:THR:HA	1:5:297:LYS:HE3	1.89	0.54
1:9:218:ARG:HH12	1:9:260:LEU:HB3	1.72	0.54
1:9:386:ALA:HB1	1:9:390:ARG:NH1	2.23	0.54
1:A:218:ARG:HH12	1:A:260:LEU:HB3	1.72	0.54
1:A:386:ALA:HB1	1:A:390:ARG:HH12	1.72	0.54
1:AA:86:PHE:CG	1:AA:285:ILE:HG12	2.43	0.54
1:AA:392:LEU:HA	1:AA:395:LYS:HZ3	1.73	0.54
1:AB:218:ARG:HH12	1:AB:260:LEU:HB3	1.72	0.54
1:C:386:ALA:HB1	1:C:390:ARG:NH1	2.22	0.54
1:F:294:THR:HA	1:F:297:LYS:HE3	1.89	0.54
1:F:386:ALA:HB1	1:F:390:ARG:HH12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:88:PRO:HB2	1:H:116:PHE:HD1	1.71	0.54
1:I:45:SER:HA	1:I:67:ARG:HA	1.89	0.54
1:I:308:LEU:HA	1:I:311:ILE:HD12	1.90	0.54
1:J:45:SER:HA	1:J:67:ARG:HA	1.89	0.54
1:J:386:ALA:HB1	1:J:390:ARG:HH12	1.72	0.54
1:M:45:SER:HA	1:M:67:ARG:HA	1.89	0.54
1:N:308:LEU:HA	1:N:311:ILE:HD12	1.89	0.54
1:O:294:THR:HA	1:O:297:LYS:HE3	1.89	0.54
1:Q:45:SER:HA	1:Q:67:ARG:HA	1.89	0.54
1:Q:218:ARG:HH12	1:Q:260:LEU:HB3	1.72	0.54
1:R:86:PHE:CG	1:R:285:ILE:HG12	2.43	0.54
1:T:386:ALA:HB1	1:T:390:ARG:HH12	1.72	0.54
1:U:218:ARG:HH12	1:U:260:LEU:HB3	1.72	0.54
1:X:86:PHE:CG	1:X:285:ILE:HG12	2.43	0.54
1:Y:308:LEU:HA	1:Y:311:ILE:HD12	1.90	0.54
1:a:86:PHE:CG	1:a:285:ILE:HG12	2.43	0.54
1:a:386:ALA:HB1	1:a:390:ARG:NH1	2.22	0.54
1:c:294:THR:HA	1:c:297:LYS:HE3	1.89	0.54
1:g:332:ARG:HA	1:g:335:LYS:HE2	1.89	0.54
1:k:294:THR:HA	1:k:297:LYS:HE3	1.89	0.54
1:l:308:LEU:HA	1:l:311:ILE:HD12	1.90	0.54
1:o:386:ALA:HB1	1:o:390:ARG:HH12	1.72	0.54
1:s:86:PHE:CG	1:s:285:ILE:HG12	2.43	0.54
1:u:218:ARG:HH12	1:u:260:LEU:HB3	1.72	0.54
1:v:386:ALA:HB1	1:v:390:ARG:NH1	2.22	0.54
1:z:86:PHE:CG	1:z:285:ILE:HG12	2.43	0.54
1:4:308:LEU:HA	1:4:311:ILE:HD12	1.90	0.54
1:8:86:PHE:CG	1:8:285:ILE:HG12	2.43	0.54
1:9:86:PHE:CG	1:9:285:ILE:HG12	2.43	0.54
1:B:308:LEU:HA	1:B:311:ILE:HD12	1.90	0.54
1:C:45:SER:HA	1:C:67:ARG:HA	1.89	0.54
1:C:86:PHE:CG	1:C:285:ILE:HG12	2.43	0.54
1:C:386:ALA:HB1	1:C:390:ARG:HH12	1.72	0.54
1:I:86:PHE:CG	1:I:285:ILE:HG12	2.43	0.54
1:Q:294:THR:HA	1:Q:297:LYS:HE3	1.89	0.54
1:S:86:PHE:CG	1:S:285:ILE:HG12	2.43	0.54
1:U:45:SER:HA	1:U:67:ARG:HA	1.89	0.54
1:V:332:ARG:HA	1:V:335:LYS:HE2	1.89	0.54
1:V:386:ALA:HB1	1:V:390:ARG:HH12	1.72	0.54
1:W:218:ARG:HH12	1:W:260:LEU:HB3	1.72	0.54
1:Y:86:PHE:CG	1:Y:285:ILE:HG12	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:308:LEU:HA	1:c:311:ILE:HD12	1.89	0.54
1:i:86:PHE:CG	1:i:285:ILE:HG12	2.43	0.54
1:j:88:PRO:HB2	1:j:116:PHE:HD1	1.71	0.54
1:k:86:PHE:CG	1:k:285:ILE:HG12	2.43	0.54
1:m:45:SER:HA	1:m:67:ARG:HA	1.89	0.54
1:n:218:ARG:HH12	1:n:260:LEU:HB3	1.72	0.54
1:z:218:ARG:HH12	1:z:260:LEU:HB3	1.72	0.54
1:0:86:PHE:CG	1:0:285:ILE:HG12	2.43	0.53
1:0:218:ARG:HH12	1:0:260:LEU:HB3	1.72	0.53
1:4:45:SER:HA	1:4:67:ARG:HA	1.89	0.53
1:6:86:PHE:CG	1:6:285:ILE:HG12	2.43	0.53
1:7:308:LEU:HA	1:7:311:ILE:HD12	1.90	0.53
1:A:86:PHE:CG	1:A:285:ILE:HG12	2.43	0.53
1:A:386:ALA:HB1	1:A:390:ARG:NH1	2.23	0.53
1:C:185:THR:OG1	1:q:320:ARG:HG3	2.08	0.53
1:D:86:PHE:CG	1:D:285:ILE:HG12	2.43	0.53
1:F:332:ARG:HA	1:F:335:LYS:HE2	1.89	0.53
1:I:368:GLY:HA2	1:J:400:TYR:CD2	2.42	0.53
1:J:218:ARG:HH12	1:J:260:LEU:HB3	1.72	0.53
1:M:86:PHE:CG	1:M:285:ILE:HG12	2.43	0.53
1:N:86:PHE:CG	1:N:285:ILE:HG12	2.43	0.53
1:Q:308:LEU:HA	1:Q:311:ILE:HD12	1.89	0.53
1:S:294:THR:HA	1:S:297:LYS:HE3	1.89	0.53
1:T:45:SER:HA	1:T:67:ARG:HA	1.89	0.53
1:U:308:LEU:HA	1:U:311:ILE:HD12	1.89	0.53
1:c:218:ARG:HH12	1:c:260:LEU:HB3	1.72	0.53
1:d:308:LEU:HA	1:d:311:ILE:HD12	1.89	0.53
1:g:45:SER:HA	1:g:67:ARG:HA	1.89	0.53
1:h:86:PHE:CG	1:h:285:ILE:HG12	2.43	0.53
1:j:386:ALA:HB1	1:j:390:ARG:NH1	2.22	0.53
1:n:209:HIS:CE1	1:o:230:ALA:HB2	2.43	0.53
1:r:86:PHE:CG	1:r:285:ILE:HG12	2.43	0.53
1:s:308:LEU:HA	1:s:311:ILE:HD12	1.90	0.53
1:t:308:LEU:HA	1:t:311:ILE:HD12	1.89	0.53
1:7:45:SER:HA	1:7:67:ARG:HA	1.89	0.53
1:7:294:THR:HA	1:7:297:LYS:HE3	1.89	0.53
1:A:26:LEU:HD12	1:A:127:GLN:HB2	1.91	0.53
1:AB:86:PHE:CG	1:AB:285:ILE:HG12	2.43	0.53
1:H:86:PHE:CG	1:H:285:ILE:HG12	2.43	0.53
1:H:218:ARG:HH12	1:H:260:LEU:HB3	1.72	0.53
1:K:45:SER:HA	1:K:67:ARG:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:86:PHE:CG	1:L:285:ILE:HG12	2.43	0.53
1:L:88:PRO:HB2	1:L:116:PHE:HD1	1.72	0.53
1:N:88:PRO:HB2	1:N:116:PHE:HD1	1.72	0.53
1:S:45:SER:HA	1:S:67:ARG:HA	1.89	0.53
1:U:86:PHE:CG	1:U:285:ILE:HG12	2.43	0.53
1:V:86:PHE:CG	1:V:285:ILE:HG12	2.43	0.53
1:W:86:PHE:CG	1:W:285:ILE:HG12	2.43	0.53
1:X:308:LEU:HA	1:X:311:ILE:HD12	1.89	0.53
1:c:386:ALA:HB1	1:c:390:ARG:HH12	1.72	0.53
1:d:26:LEU:HD12	1:d:127:GLN:HB2	1.91	0.53
1:d:386:ALA:HB1	1:d:390:ARG:HH12	1.72	0.53
1:e:86:PHE:CG	1:e:285:ILE:HG12	2.43	0.53
1:i:332:ARG:HA	1:i:335:LYS:HE2	1.89	0.53
1:m:88:PRO:HB2	1:m:116:PHE:HD1	1.72	0.53
1:r:26:LEU:HD12	1:r:127:GLN:HB2	1.91	0.53
1:r:386:ALA:HB1	1:r:390:ARG:HH12	1.72	0.53
1:v:308:LEU:HA	1:v:311:ILE:HD12	1.90	0.53
1:w:45:SER:HA	1:w:67:ARG:HA	1.89	0.53
1:A:300:CYS:SG	1:X:318:LEU:HD11	2.49	0.53
1:AA:26:LEU:HD12	1:AA:127:GLN:HB2	1.90	0.53
1:AA:218:ARG:HH12	1:AA:260:LEU:HB3	1.72	0.53
1:F:86:PHE:CG	1:F:285:ILE:HG12	2.43	0.53
1:H:386:ALA:HB1	1:H:390:ARG:HH12	1.72	0.53
1:M:308:LEU:HA	1:M:311:ILE:HD12	1.90	0.53
1:N:45:SER:HA	1:N:67:ARG:HA	1.89	0.53
1:O:86:PHE:CG	1:O:285:ILE:HG12	2.43	0.53
1:Z:86:PHE:CG	1:Z:285:ILE:HG12	2.43	0.53
1:Z:308:LEU:HA	1:Z:311:ILE:HD12	1.89	0.53
1:a:26:LEU:HD12	1:a:127:GLN:HB2	1.91	0.53
1:c:45:SER:HA	1:c:67:ARG:HA	1.89	0.53
1:e:308:LEU:HA	1:e:311:ILE:HD12	1.90	0.53
1:i:218:ARG:HH12	1:i:260:LEU:HB3	1.72	0.53
1:p:218:ARG:HH12	1:p:260:LEU:HB3	1.72	0.53
1:q:308:LEU:HA	1:q:311:ILE:HD12	1.89	0.53
1:r:218:ARG:HH12	1:r:260:LEU:HB3	1.72	0.53
1:s:386:ALA:HB1	1:s:390:ARG:HH12	1.72	0.53
1:x:88:PRO:HB2	1:x:116:PHE:HD1	1.72	0.53
1:z:45:SER:HA	1:z:67:ARG:HA	1.89	0.53
1:3:230:ALA:HB2	1:4:209:HIS:CE1	2.44	0.53
1:4:88:PRO:HB2	1:4:116:PHE:HD1	1.72	0.53
1:6:386:ALA:HB1	1:6:390:ARG:HH12	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:308:LEU:HA	1:A:311:ILE:HD12	1.90	0.53
1:A:389:TRP:HB3	1:B:379:ALA:HB2	1.89	0.53
1:AB:26:LEU:HD12	1:AB:127:GLN:HB2	1.91	0.53
1:B:88:PRO:HB2	1:B:116:PHE:HD1	1.72	0.53
1:B:294:THR:HA	1:B:297:LYS:HE3	1.89	0.53
1:L:45:SER:HA	1:L:67:ARG:HA	1.89	0.53
1:Q:86:PHE:CG	1:Q:285:ILE:HG12	2.44	0.53
1:T:392:LEU:HA	1:T:395:LYS:HZ3	1.73	0.53
1:U:209:HIS:CE1	1:V:230:ALA:HB2	2.43	0.53
1:Z:45:SER:HA	1:Z:67:ARG:HA	1.89	0.53
1:Z:218:ARG:HH12	1:Z:260:LEU:HB3	1.72	0.53
1:h:45:SER:HA	1:h:67:ARG:HA	1.89	0.53
1:h:218:ARG:HH12	1:h:260:LEU:HB3	1.72	0.53
1:k:45:SER:HA	1:k:67:ARG:HA	1.89	0.53
1:n:86:PHE:CG	1:n:285:ILE:HG12	2.43	0.53
1:u:86:PHE:CG	1:u:285:ILE:HG12	2.43	0.53
1:x:45:SER:HA	1:x:67:ARG:HA	1.89	0.53
1:x:86:PHE:CG	1:x:285:ILE:HG12	2.43	0.53
1:1:308:LEU:HA	1:1:311:ILE:HD12	1.89	0.53
1:2:45:SER:HA	1:2:67:ARG:HA	1.89	0.53
1:2:308:LEU:HA	1:2:311:ILE:HD12	1.90	0.53
1:5:213:LEU:HD11	1:6:227:PHE:CD1	2.43	0.53
1:B:26:LEU:HD12	1:B:127:GLN:HB2	1.91	0.53
1:B:86:PHE:CG	1:B:285:ILE:HG12	2.43	0.53
1:C:26:LEU:HD12	1:C:127:GLN:HB2	1.91	0.53
1:D:308:LEU:HA	1:D:311:ILE:HD12	1.89	0.53
1:O:230:ALA:HB2	1:P:209:HIS:CE1	2.44	0.53
1:P:88:PRO:HB2	1:P:116:PHE:HD1	1.71	0.53
1:V:308:LEU:HA	1:V:311:ILE:HD12	1.90	0.53
1:c:26:LEU:HD12	1:c:127:GLN:HB2	1.91	0.53
1:c:86:PHE:CG	1:c:285:ILE:HG12	2.43	0.53
1:j:45:SER:HA	1:j:67:ARG:HA	1.89	0.53
1:n:308:LEU:HA	1:n:311:ILE:HD12	1.90	0.53
1:q:26:LEU:HD12	1:q:127:GLN:HB2	1.91	0.53
1:q:86:PHE:CG	1:q:285:ILE:HG12	2.43	0.53
1:t:45:SER:HA	1:t:67:ARG:HA	1.89	0.53
1:t:213:LEU:HD11	1:u:227:PHE:CD1	2.44	0.53
1:u:45:SER:HA	1:u:67:ARG:HA	1.89	0.53
1:u:308:LEU:HA	1:u:311:ILE:HD12	1.89	0.53
1:3:308:LEU:HA	1:3:311:ILE:HD12	1.89	0.53
1:5:45:SER:HA	1:5:67:ARG:HA	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:308:LEU:HA	1:9:311:ILE:HD12	1.89	0.53
1:D:386:ALA:HB1	1:D:390:ARG:NH1	2.23	0.53
1:E:308:LEU:HA	1:E:311:ILE:HD12	1.90	0.53
1:F:45:SER:HA	1:F:67:ARG:HA	1.89	0.53
1:K:86:PHE:CG	1:K:285:ILE:HG12	2.43	0.53
1:L:218:ARG:HH12	1:L:260:LEU:HB3	1.72	0.53
1:P:45:SER:HA	1:P:67:ARG:HA	1.89	0.53
1:T:86:PHE:CG	1:T:285:ILE:HG12	2.43	0.53
1:W:308:LEU:HA	1:W:311:ILE:HD12	1.90	0.53
1:X:26:LEU:HD12	1:X:127:GLN:HB2	1.91	0.53
1:g:26:LEU:HD12	1:g:127:GLN:HB2	1.91	0.53
1:g:86:PHE:CG	1:g:285:ILE:HG12	2.43	0.53
1:m:86:PHE:CG	1:m:285:ILE:HG12	2.43	0.53
1:o:86:PHE:CG	1:o:285:ILE:HG12	2.43	0.53
1:o:386:ALA:HB1	1:o:390:ARG:NH1	2.22	0.53
1:p:86:PHE:CG	1:p:285:ILE:HG12	2.43	0.53
1:q:386:ALA:HB1	1:q:390:ARG:NH1	2.23	0.53
1:t:86:PHE:CG	1:t:285:ILE:HG12	2.43	0.53
1:y:45:SER:HA	1:y:67:ARG:HA	1.89	0.53
1:0:45:SER:HA	1:0:67:ARG:HA	1.89	0.53
1:0:308:LEU:HA	1:0:311:ILE:HD12	1.90	0.53
1:7:86:PHE:CG	1:7:285:ILE:HG12	2.43	0.53
1:8:386:ALA:HB1	1:8:390:ARG:HH12	1.72	0.53
1:AA:386:ALA:HB1	1:AA:390:ARG:NH1	2.22	0.53
1:B:386:ALA:HB1	1:B:390:ARG:HH12	1.72	0.53
1:C:308:LEU:HA	1:C:311:ILE:HD12	1.89	0.53
1:D:392:LEU:HD23	1:D:395:LYS:HZ1	1.74	0.53
1:E:86:PHE:CG	1:E:285:ILE:HG12	2.43	0.53
1:P:86:PHE:CG	1:P:285:ILE:HG12	2.43	0.53
1:S:308:LEU:HA	1:S:311:ILE:HD12	1.90	0.53
1:W:26:LEU:HD12	1:W:127:GLN:HB2	1.91	0.53
1:b:308:LEU:HA	1:b:311:ILE:HD12	1.90	0.53
1:d:332:ARG:HA	1:d:335:LYS:HE2	1.89	0.53
1:g:308:LEU:HA	1:g:311:ILE:HD12	1.90	0.53
1:k:218:ARG:HH12	1:k:260:LEU:HB3	1.72	0.53
1:s:386:ALA:HB1	1:s:390:ARG:NH1	2.23	0.53
1:v:45:SER:HA	1:v:67:ARG:HA	1.89	0.53
1:5:86:PHE:CG	1:5:285:ILE:HG12	2.43	0.53
1:5:392:LEU:HA	1:5:395:LYS:HZ3	1.72	0.53
1:7:392:LEU:HA	1:7:395:LYS:HZ3	1.72	0.53
1:A:192:LEU:HD21	1:A:356:ILE:HG21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:218:ARG:HH12	1:S:260:LEU:HB3	1.72	0.53
1:U:26:LEU:HD12	1:U:127:GLN:HB2	1.91	0.53
1:a:308:LEU:HA	1:a:311:ILE:HD12	1.89	0.53
1:b:218:ARG:HH12	1:b:260:LEU:HB3	1.72	0.53
1:g:35:LYS:HG3	1:g:44:ILE:HG13	1.91	0.53
1:i:308:LEU:HA	1:i:311:ILE:HD12	1.89	0.53
1:l:86:PHE:CG	1:l:285:ILE:HG12	2.43	0.53
1:v:192:LEU:HD21	1:v:356:ILE:HG21	1.91	0.53
1:y:86:PHE:CG	1:y:285:ILE:HG12	2.43	0.53
1:z:192:LEU:HD21	1:z:356:ILE:HG21	1.91	0.53
1:0:26:LEU:HD12	1:0:127:GLN:HB2	1.91	0.53
1:2:26:LEU:HD12	1:2:127:GLN:HB2	1.91	0.53
1:B:35:LYS:HG3	1:B:44:ILE:HG13	1.91	0.53
1:G:26:LEU:HD12	1:G:127:GLN:HB2	1.91	0.53
1:J:192:LEU:HD21	1:J:356:ILE:HG21	1.91	0.53
1:W:192:LEU:HD21	1:W:356:ILE:HG21	1.91	0.53
1:c:182:VAL:HB	1:o:319:THR:HG22	1.91	0.53
1:e:392:LEU:HA	1:e:395:LYS:HZ3	1.74	0.53
1:f:26:LEU:HD12	1:f:127:GLN:HB2	1.91	0.53
1:h:192:LEU:HD21	1:h:356:ILE:HG21	1.91	0.53
1:m:308:LEU:HA	1:m:311:ILE:HD12	1.90	0.53
1:p:26:LEU:HD12	1:p:127:GLN:HB2	1.91	0.53
1:p:35:LYS:HG3	1:p:44:ILE:HG13	1.91	0.53
1:r:308:LEU:HA	1:r:311:ILE:HD12	1.90	0.53
1:AA:308:LEU:HA	1:AA:311:ILE:HD12	1.90	0.53
1:AB:392:LEU:HA	1:AB:395:LYS:HZ3	1.74	0.53
1:D:26:LEU:HD12	1:D:127:GLN:HB2	1.91	0.53
1:F:308:LEU:HA	1:F:311:ILE:HD12	1.90	0.53
1:G:86:PHE:CG	1:G:285:ILE:HG12	2.44	0.53
1:G:308:LEU:HA	1:G:311:ILE:HD12	1.90	0.53
1:H:45:SER:HA	1:H:67:ARG:HA	1.89	0.53
1:J:392:LEU:HA	1:J:395:LYS:HZ3	1.74	0.53
1:O:192:LEU:HD21	1:O:356:ILE:HG21	1.91	0.53
1:Q:192:LEU:HD21	1:Q:356:ILE:HG21	1.91	0.53
1:Q:392:LEU:HA	1:Q:395:LYS:HZ3	1.73	0.53
1:S:35:LYS:HG3	1:S:44:ILE:HG13	1.91	0.53
1:S:192:LEU:HD21	1:S:356:ILE:HG21	1.91	0.53
1:U:192:LEU:HD21	1:U:356:ILE:HG21	1.91	0.53
1:V:26:LEU:HD12	1:V:127:GLN:HB2	1.91	0.53
1:Y:192:LEU:HD21	1:Y:356:ILE:HG21	1.91	0.53
1:Z:26:LEU:HD12	1:Z:127:GLN:HB2	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:192:LEU:HD21	1:c:356:ILE:HG21	1.91	0.53
1:f:308:LEU:HA	1:f:311:ILE:HD12	1.89	0.53
1:j:86:PHE:CG	1:j:285:ILE:HG12	2.43	0.53
1:l:45:SER:HA	1:l:67:ARG:HA	1.89	0.53
1:p:308:LEU:HA	1:p:311:ILE:HD12	1.89	0.53
1:r:192:LEU:HD21	1:r:356:ILE:HG21	1.91	0.53
1:y:192:LEU:HD21	1:y:356:ILE:HG21	1.91	0.53
1:0:192:LEU:HD21	1:0:356:ILE:HG21	1.91	0.52
1:2:35:LYS:HG3	1:2:44:ILE:HG13	1.91	0.52
1:7:35:LYS:HG3	1:7:44:ILE:HG13	1.91	0.52
1:A:368:GLY:CA	1:B:400:TYR:CG	2.92	0.52
1:AB:35:LYS:HG3	1:AB:44:ILE:HG13	1.91	0.52
1:AB:308:LEU:HA	1:AB:311:ILE:HD12	1.89	0.52
1:F:26:LEU:HD12	1:F:127:GLN:HB2	1.91	0.52
1:I:192:LEU:HD21	1:I:356:ILE:HG21	1.91	0.52
1:I:218:ARG:HH12	1:I:260:LEU:HB3	1.72	0.52
1:I:392:LEU:HA	1:I:395:LYS:HZ3	1.74	0.52
1:M:192:LEU:HD21	1:M:356:ILE:HG21	1.91	0.52
1:Q:35:LYS:HG3	1:Q:44:ILE:HG13	1.91	0.52
1:Q:213:LEU:HD11	1:R:227:PHE:CD1	2.44	0.52
1:a:192:LEU:HD21	1:a:356:ILE:HG21	1.91	0.52
1:c:400:TYR:CG	1:d:368:GLY:HA3	2.44	0.52
1:f:86:PHE:CG	1:f:285:ILE:HG12	2.43	0.52
1:j:35:LYS:HG3	1:j:44:ILE:HG13	1.91	0.52
1:n:35:LYS:HG3	1:n:44:ILE:HG13	1.91	0.52
1:u:192:LEU:HD21	1:u:356:ILE:HG21	1.91	0.52
1:v:86:PHE:CG	1:v:285:ILE:HG12	2.43	0.52
1:w:86:PHE:CG	1:w:285:ILE:HG12	2.43	0.52
1:w:209:HIS:CE1	1:x:230:ALA:HB2	2.43	0.52
1:1:192:LEU:HD21	1:1:356:ILE:HG21	1.91	0.52
1:AB:192:LEU:HD21	1:AB:356:ILE:HG21	1.91	0.52
1:D:35:LYS:HG3	1:D:44:ILE:HG13	1.91	0.52
1:E:35:LYS:HG3	1:E:44:ILE:HG13	1.91	0.52
1:E:192:LEU:HD21	1:E:356:ILE:HG21	1.91	0.52
1:F:35:LYS:HG3	1:F:44:ILE:HG13	1.91	0.52
1:J:86:PHE:CG	1:J:285:ILE:HG12	2.43	0.52
1:S:26:LEU:HD12	1:S:127:GLN:HB2	1.91	0.52
1:U:226:ASP:OD2	1:V:209:HIS:CD2	2.63	0.52
1:V:386:ALA:HB1	1:V:390:ARG:NH1	2.22	0.52
1:W:35:LYS:HG3	1:W:44:ILE:HG13	1.91	0.52
1:X:386:ALA:HB1	1:X:390:ARG:NH1	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:26:LEU:HD12	1:b:127:GLN:HB2	1.91	0.52
1:b:86:PHE:CG	1:b:285:ILE:HG12	2.43	0.52
1:d:192:LEU:HD21	1:d:356:ILE:HG21	1.91	0.52
1:p:192:LEU:HD21	1:p:356:ILE:HG21	1.91	0.52
1:r:35:LYS:HG3	1:r:44:ILE:HG13	1.91	0.52
1:3:192:LEU:HD21	1:3:356:ILE:HG21	1.91	0.52
1:5:192:LEU:HD21	1:5:356:ILE:HG21	1.91	0.52
1:7:192:LEU:HD21	1:7:356:ILE:HG21	1.91	0.52
1:9:26:LEU:HD12	1:9:127:GLN:HB2	1.91	0.52
1:9:45:SER:HA	1:9:67:ARG:HA	1.89	0.52
1:9:192:LEU:HD21	1:9:356:ILE:HG21	1.91	0.52
1:C:192:LEU:HD21	1:C:356:ILE:HG21	1.91	0.52
1:C:230:ALA:HB2	1:D:209:HIS:CE1	2.44	0.52
1:E:26:LEU:HD12	1:E:127:GLN:HB2	1.91	0.52
1:G:192:LEU:HD21	1:G:356:ILE:HG21	1.91	0.52
1:H:192:LEU:HD21	1:H:356:ILE:HG21	1.91	0.52
1:K:26:LEU:HD12	1:K:127:GLN:HB2	1.91	0.52
1:N:35:LYS:HG3	1:N:44:ILE:HG13	1.91	0.52
1:Y:230:ALA:HB2	1:Z:209:HIS:CE1	2.44	0.52
1:a:35:LYS:HG3	1:a:44:ILE:HG13	1.91	0.52
1:c:266:GLN:O	1:c:270:ASN:HB2	2.10	0.52
1:e:26:LEU:HD12	1:e:127:GLN:HB2	1.91	0.52
1:f:35:LYS:HG3	1:f:44:ILE:HG13	1.91	0.52
1:f:192:LEU:HD21	1:f:356:ILE:HG21	1.91	0.52
1:k:192:LEU:HD21	1:k:356:ILE:HG21	1.91	0.52
1:n:226:ASP:OD2	1:o:209:HIS:CD2	2.63	0.52
1:o:26:LEU:HD12	1:o:127:GLN:HB2	1.91	0.52
1:v:26:LEU:HD12	1:v:127:GLN:HB2	1.91	0.52
1:w:192:LEU:HD21	1:w:356:ILE:HG21	1.91	0.52
1:w:226:ASP:OD2	1:x:209:HIS:CD2	2.63	0.52
1:5:26:LEU:HD12	1:5:127:GLN:HB2	1.90	0.52
1:6:35:LYS:HG3	1:6:44:ILE:HG13	1.91	0.52
1:B:192:LEU:HD21	1:B:356:ILE:HG21	1.91	0.52
1:F:192:LEU:HD21	1:F:356:ILE:HG21	1.91	0.52
1:H:308:LEU:HA	1:H:311:ILE:HD12	1.90	0.52
1:K:192:LEU:HD21	1:K:356:ILE:HG21	1.91	0.52
1:P:192:LEU:HD21	1:P:356:ILE:HG21	1.91	0.52
1:k:26:LEU:HD12	1:k:127:GLN:HB2	1.91	0.52
1:n:26:LEU:HD12	1:n:127:GLN:HB2	1.91	0.52
1:n:209:HIS:ND1	1:o:230:ALA:HB2	2.24	0.52
1:s:26:LEU:HD12	1:s:127:GLN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:26:LEU:HD12	1:t:127:GLN:HB2	1.91	0.52
1:w:26:LEU:HD12	1:w:127:GLN:HB2	1.91	0.52
1:x:266:GLN:O	1:x:270:ASN:HB2	2.10	0.52
1:4:192:LEU:HD21	1:4:356:ILE:HG21	1.91	0.52
1:5:35:LYS:HG3	1:5:44:ILE:HG13	1.91	0.52
1:A:266:GLN:O	1:A:270:ASN:HB2	2.10	0.52
1:AA:35:LYS:HG3	1:AA:44:ILE:HG13	1.91	0.52
1:I:390:ARG:NH1	1:J:379:ALA:HB1	2.20	0.52
1:L:192:LEU:HD21	1:L:356:ILE:HG21	1.91	0.52
1:Q:26:LEU:HD12	1:Q:127:GLN:HB2	1.91	0.52
1:R:26:LEU:HD12	1:R:127:GLN:HB2	1.91	0.52
1:R:82:TYR:HB3	1:R:85:ILE:HD12	1.92	0.52
1:Z:192:LEU:HD21	1:Z:356:ILE:HG21	1.91	0.52
1:g:266:GLN:O	1:g:270:ASN:HB2	2.10	0.52
1:j:26:LEU:HD12	1:j:127:GLN:HB2	1.91	0.52
1:j:266:GLN:O	1:j:270:ASN:HB2	2.10	0.52
1:k:308:LEU:HA	1:k:311:ILE:HD12	1.90	0.52
1:l:35:LYS:HG3	1:l:44:ILE:HG13	1.91	0.52
1:n:192:LEU:HD21	1:n:356:ILE:HG21	1.91	0.52
1:v:35:LYS:HG3	1:v:44:ILE:HG13	1.91	0.52
1:w:209:HIS:ND1	1:x:230:ALA:HB2	2.24	0.52
1:x:26:LEU:HD12	1:x:127:GLN:HB2	1.91	0.52
1:A:35:LYS:HG3	1:A:44:ILE:HG13	1.91	0.52
1:C:266:GLN:O	1:C:270:ASN:HB2	2.10	0.52
1:E:392:LEU:HA	1:E:395:LYS:HZ3	1.75	0.52
1:H:26:LEU:HD12	1:H:127:GLN:HB2	1.91	0.52
1:K:266:GLN:O	1:K:270:ASN:HB2	2.10	0.52
1:O:26:LEU:HD12	1:O:127:GLN:HB2	1.91	0.52
1:P:266:GLN:O	1:P:270:ASN:HB2	2.10	0.52
1:T:82:TYR:HB3	1:T:85:ILE:HD12	1.92	0.52
1:V:82:TYR:HB3	1:V:85:ILE:HD12	1.92	0.52
1:W:266:GLN:O	1:W:270:ASN:HB2	2.10	0.52
1:Z:35:LYS:HG3	1:Z:44:ILE:HG13	1.91	0.52
1:d:35:LYS:HG3	1:d:44:ILE:HG13	1.91	0.52
1:d:86:PHE:CG	1:d:285:ILE:HG12	2.43	0.52
1:d:266:GLN:O	1:d:270:ASN:HB2	2.10	0.52
1:i:26:LEU:HD12	1:i:127:GLN:HB2	1.91	0.52
1:i:82:TYR:HB3	1:i:85:ILE:HD12	1.92	0.52
1:k:35:LYS:HG3	1:k:44:ILE:HG13	1.91	0.52
1:o:82:TYR:HB3	1:o:85:ILE:HD12	1.92	0.52
1:t:192:LEU:HD21	1:t:356:ILE:HG21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:266:GLN:O	1:w:270:ASN:HB2	2.10	0.52
1:x:35:LYS:HG3	1:x:44:ILE:HG13	1.91	0.52
1:6:82:TYR:HB3	1:6:85:ILE:HD12	1.92	0.52
1:6:266:GLN:O	1:6:270:ASN:HB2	2.10	0.52
1:7:26:LEU:HD12	1:7:127:GLN:HB2	1.91	0.52
1:AA:266:GLN:O	1:AA:270:ASN:HB2	2.10	0.52
1:D:192:LEU:HD21	1:D:356:ILE:HG21	1.91	0.52
1:E:266:GLN:O	1:E:270:ASN:HB2	2.10	0.52
1:F:82:TYR:HB3	1:F:85:ILE:HD12	1.92	0.52
1:N:82:TYR:HB3	1:N:85:ILE:HD12	1.92	0.52
1:N:192:LEU:HD21	1:N:356:ILE:HG21	1.91	0.52
1:P:35:LYS:HG3	1:P:44:ILE:HG13	1.91	0.52
1:R:35:LYS:HG3	1:R:44:ILE:HG13	1.91	0.52
1:U:35:LYS:HG3	1:U:44:ILE:HG13	1.91	0.52
1:X:35:LYS:HG3	1:X:44:ILE:HG13	1.91	0.52
1:e:35:LYS:HG3	1:e:44:ILE:HG13	1.91	0.52
1:m:26:LEU:HD12	1:m:127:GLN:HB2	1.91	0.52
1:n:266:GLN:O	1:n:270:ASN:HB2	2.10	0.52
1:p:266:GLN:O	1:p:270:ASN:HB2	2.10	0.52
1:s:35:LYS:HG3	1:s:44:ILE:HG13	1.91	0.52
1:w:35:LYS:HG3	1:w:44:ILE:HG13	1.91	0.52
1:x:192:LEU:HD21	1:x:356:ILE:HG21	1.91	0.52
1:y:266:GLN:O	1:y:270:ASN:HB2	2.10	0.52
1:z:26:LEU:HD12	1:z:127:GLN:HB2	1.91	0.52
1:4:35:LYS:HG3	1:4:44:ILE:HG13	1.91	0.52
1:8:266:GLN:O	1:8:270:ASN:HB2	2.10	0.52
1:H:35:LYS:HG3	1:H:44:ILE:HG13	1.91	0.52
1:Q:213:LEU:HD23	1:R:223:SER:OG	2.10	0.52
1:R:266:GLN:O	1:R:270:ASN:HB2	2.10	0.52
1:X:266:GLN:O	1:X:270:ASN:HB2	2.10	0.52
1:Y:266:GLN:O	1:Y:270:ASN:HB2	2.10	0.52
1:e:192:LEU:HD21	1:e:356:ILE:HG21	1.91	0.52
1:g:82:TYR:HB3	1:g:85:ILE:HD12	1.92	0.52
1:h:392:LEU:HA	1:h:395:LYS:HZ3	1.75	0.52
1:l:82:TYR:HB3	1:l:85:ILE:HD12	1.92	0.52
1:n:63:ILE:HB	1:q:254:GLU:OE1	2.10	0.52
1:2:82:TYR:HB3	1:2:85:ILE:HD12	1.92	0.52
1:2:192:LEU:HD21	1:2:356:ILE:HG21	1.91	0.52
1:2:266:GLN:O	1:2:270:ASN:HB2	2.10	0.52
1:5:213:LEU:HD23	1:6:223:SER:OG	2.10	0.52
1:8:26:LEU:HD12	1:8:127:GLN:HB2	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:392:LEU:HA	1:A:395:LYS:HZ3	1.75	0.52
1:C:35:LYS:HG3	1:C:44:ILE:HG13	1.91	0.52
1:N:26:LEU:HD12	1:N:127:GLN:HB2	1.91	0.52
1:P:26:LEU:HD12	1:P:127:GLN:HB2	1.90	0.52
1:Y:26:LEU:HD12	1:Y:127:GLN:HB2	1.91	0.52
1:Z:266:GLN:O	1:Z:270:ASN:HB2	2.10	0.52
1:b:192:LEU:HD21	1:b:356:ILE:HG21	1.91	0.52
1:c:392:LEU:HA	1:c:395:LYS:HZ3	1.75	0.52
1:f:266:GLN:O	1:f:270:ASN:HB2	2.10	0.52
1:g:192:LEU:HD21	1:g:356:ILE:HG21	1.91	0.52
1:j:82:TYR:HB3	1:j:85:ILE:HD12	1.92	0.52
1:j:192:LEU:HD21	1:j:356:ILE:HG21	1.91	0.52
1:l:26:LEU:HD12	1:l:127:GLN:HB2	1.91	0.52
1:s:192:LEU:HD21	1:s:356:ILE:HG21	1.91	0.52
1:u:26:LEU:HD12	1:u:127:GLN:HB2	1.91	0.52
1:1:35:LYS:HG3	1:1:44:ILE:HG13	1.91	0.52
1:4:26:LEU:HD12	1:4:127:GLN:HB2	1.91	0.52
1:8:35:LYS:HG3	1:8:44:ILE:HG13	1.91	0.52
1:8:82:TYR:HB3	1:8:85:ILE:HD12	1.92	0.52
1:K:35:LYS:HG3	1:K:44:ILE:HG13	1.91	0.52
1:L:266:GLN:O	1:L:270:ASN:HB2	2.10	0.52
1:P:82:TYR:HB3	1:P:85:ILE:HD12	1.92	0.52
1:T:26:LEU:HD12	1:T:127:GLN:HB2	1.91	0.52
1:U:63:ILE:HB	1:X:254:GLU:OE1	2.10	0.52
1:X:82:TYR:HB3	1:X:85:ILE:HD12	1.92	0.52
1:Z:82:TYR:HB3	1:Z:85:ILE:HD12	1.92	0.52
1:a:266:GLN:O	1:a:270:ASN:HB2	2.10	0.52
1:b:266:GLN:O	1:b:270:ASN:HB2	2.10	0.52
1:c:35:LYS:HG3	1:c:44:ILE:HG13	1.91	0.52
1:h:26:LEU:HD12	1:h:127:GLN:HB2	1.91	0.52
1:i:192:LEU:HD21	1:i:356:ILE:HG21	1.91	0.52
1:i:266:GLN:O	1:i:270:ASN:HB2	2.10	0.52
1:m:82:TYR:HB3	1:m:85:ILE:HD12	1.92	0.52
1:t:213:LEU:HD23	1:u:223:SER:OG	2.10	0.52
1:w:63:ILE:HB	1:z:254:GLU:OE1	2.10	0.52
1:y:26:LEU:HD12	1:y:127:GLN:HB2	1.91	0.52
1:4:82:TYR:HB3	1:4:85:ILE:HD12	1.92	0.51
1:9:63:ILE:HB	1:AA:254:GLU:OE1	2.10	0.51
1:X:192:LEU:HD21	1:X:356:ILE:HG21	1.91	0.51
1:Y:35:LYS:HG3	1:Y:44:ILE:HG13	1.91	0.51
1:c:383:ASN:HD21	1:d:390:ARG:NH1	2.07	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:266:GLN:O	1:e:270:ASN:HB2	2.10	0.51
1:k:213:LEU:HD11	1:l:227:PHE:CD1	2.44	0.51
1:k:266:GLN:O	1:k:270:ASN:HB2	2.10	0.51
1:u:35:LYS:HG3	1:u:44:ILE:HG13	1.91	0.51
1:w:82:TYR:HB3	1:w:85:ILE:HD12	1.92	0.51
1:z:266:GLN:O	1:z:270:ASN:HB2	2.10	0.51
1:1:266:GLN:O	1:1:270:ASN:HB2	2.10	0.51
1:6:26:LEU:HD12	1:6:127:GLN:HB2	1.91	0.51
1:AA:82:TYR:HB3	1:AA:85:ILE:HD12	1.92	0.51
1:AB:266:GLN:O	1:AB:270:ASN:HB2	2.10	0.51
1:C:232:LYS:HG2	1:C:247:SER:HA	1.93	0.51
1:G:35:LYS:HG3	1:G:44:ILE:HG13	1.91	0.51
1:I:234:LEU:HD13	1:J:202:HIS:HB3	1.92	0.51
1:J:35:LYS:HG3	1:J:44:ILE:HG13	1.91	0.51
1:L:26:LEU:HD12	1:L:127:GLN:HB2	1.91	0.51
1:T:35:LYS:HG3	1:T:44:ILE:HG13	1.91	0.51
1:b:82:TYR:HB3	1:b:85:ILE:HD12	1.92	0.51
1:k:213:LEU:HD23	1:l:223:SER:OG	2.10	0.51
1:l:232:LYS:HG2	1:l:247:SER:HA	1.93	0.51
1:l:392:LEU:HA	1:l:395:LYS:HZ3	1.75	0.51
1:m:192:LEU:HD21	1:m:356:ILE:HG21	1.91	0.51
1:r:266:GLN:O	1:r:270:ASN:HB2	2.10	0.51
1:s:82:TYR:HB3	1:s:85:ILE:HD12	1.92	0.51
1:t:82:TYR:HB3	1:t:85:ILE:HD12	1.92	0.51
1:v:266:GLN:O	1:v:270:ASN:HB2	2.10	0.51
1:0:35:LYS:HG3	1:0:44:ILE:HG13	1.91	0.51
1:A:82:TYR:HB3	1:A:85:ILE:HD12	1.92	0.51
1:AA:192:LEU:HD21	1:AA:356:ILE:HG21	1.91	0.51
1:M:26:LEU:HD12	1:M:127:GLN:HB2	1.91	0.51
1:M:82:TYR:HB3	1:M:85:ILE:HD12	1.92	0.51
1:U:266:GLN:O	1:U:270:ASN:HB2	2.10	0.51
1:V:35:LYS:HG3	1:V:44:ILE:HG13	1.91	0.51
1:V:192:LEU:HD21	1:V:356:ILE:HG21	1.91	0.51
1:b:232:LYS:HG2	1:b:247:SER:HA	1.93	0.51
1:c:82:TYR:HB3	1:c:85:ILE:HD12	1.92	0.51
1:e:82:TYR:HB3	1:e:85:ILE:HD12	1.92	0.51
1:f:389:TRP:HB3	1:g:379:ALA:HB2	1.91	0.51
1:k:82:TYR:HB3	1:k:85:ILE:HD12	1.92	0.51
1:m:35:LYS:HG3	1:m:44:ILE:HG13	1.91	0.51
1:x:82:TYR:HB3	1:x:85:ILE:HD12	1.92	0.51
1:1:26:LEU:HD12	1:1:127:GLN:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:57:TYR:HA	1:1:137:GLN:HE22	1.76	0.51
1:8:192:LEU:HD21	1:8:356:ILE:HG21	1.92	0.51
1:D:266:GLN:O	1:D:270:ASN:HB2	2.10	0.51
1:N:266:GLN:O	1:N:270:ASN:HB2	2.10	0.51
1:O:82:TYR:HB3	1:O:85:ILE:HD12	1.92	0.51
1:R:232:LYS:HG2	1:R:247:SER:HA	1.93	0.51
1:S:266:GLN:O	1:S:270:ASN:HB2	2.10	0.51
1:T:232:LYS:HG2	1:T:247:SER:HA	1.93	0.51
1:T:266:GLN:O	1:T:270:ASN:HB2	2.10	0.51
1:V:266:GLN:O	1:V:270:ASN:HB2	2.10	0.51
1:b:35:LYS:HG3	1:b:44:ILE:HG13	1.91	0.51
1:i:35:LYS:HG3	1:i:44:ILE:HG13	1.91	0.51
1:o:266:GLN:O	1:o:270:ASN:HB2	2.10	0.51
1:q:82:TYR:HB3	1:q:85:ILE:HD12	1.92	0.51
1:q:192:LEU:HD21	1:q:356:ILE:HG21	1.91	0.51
1:r:232:LYS:HG2	1:r:247:SER:HA	1.93	0.51
1:s:266:GLN:O	1:s:270:ASN:HB2	2.10	0.51
1:y:35:LYS:HG3	1:y:44:ILE:HG13	1.91	0.51
1:y:82:TYR:HB3	1:y:85:ILE:HD12	1.92	0.51
1:2:232:LYS:HG2	1:2:247:SER:HA	1.93	0.51
1:3:26:LEU:HD12	1:3:127:GLN:HB2	1.91	0.51
1:3:35:LYS:HG3	1:3:44:ILE:HG13	1.91	0.51
1:3:82:TYR:HB3	1:3:85:ILE:HD12	1.92	0.51
1:AB:57:TYR:HA	1:AB:137:GLN:HE22	1.76	0.51
1:F:57:TYR:HA	1:F:137:GLN:HE22	1.76	0.51
1:F:266:GLN:O	1:F:270:ASN:HB2	2.10	0.51
1:G:82:TYR:HB3	1:G:85:ILE:HD12	1.92	0.51
1:H:276:LYS:HG3	1:H:280:ARG:HH11	1.76	0.51
1:J:26:LEU:HD12	1:J:127:GLN:HB2	1.91	0.51
1:L:276:LYS:HG3	1:L:280:ARG:HH11	1.76	0.51
1:Q:57:TYR:HA	1:Q:137:GLN:HE22	1.76	0.51
1:R:192:LEU:HD21	1:R:356:ILE:HG21	1.91	0.51
1:S:82:TYR:HB3	1:S:85:ILE:HD12	1.92	0.51
1:U:209:HIS:ND1	1:V:230:ALA:HB2	2.24	0.51
1:Y:57:TYR:HA	1:Y:137:GLN:HE22	1.76	0.51
1:Z:232:LYS:HG2	1:Z:247:SER:HA	1.93	0.51
1:n:57:TYR:HA	1:n:137:GLN:HE22	1.76	0.51
1:n:226:ASP:O	1:o:209:HIS:CD2	2.64	0.51
1:p:57:TYR:HA	1:p:137:GLN:HE22	1.76	0.51
1:q:232:LYS:HG2	1:q:247:SER:HA	1.93	0.51
1:u:276:LYS:HG3	1:u:280:ARG:HH11	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:82:TYR:HB3	1:0:85:ILE:HD12	1.92	0.51
1:0:232:LYS:HG2	1:0:247:SER:HA	1.93	0.51
1:0:266:GLN:O	1:0:270:ASN:HB2	2.10	0.51
1:AA:58:GLN:HB2	1:AA:62:LYS:HD3	1.93	0.51
1:AB:276:LYS:HG3	1:AB:280:ARG:HH11	1.76	0.51
1:B:266:GLN:O	1:B:270:ASN:HB2	2.10	0.51
1:D:57:TYR:HA	1:D:137:GLN:HE22	1.76	0.51
1:E:57:TYR:HA	1:E:137:GLN:HE22	1.76	0.51
1:G:58:GLN:HB2	1:G:62:LYS:HD3	1.93	0.51
1:H:266:GLN:O	1:H:270:ASN:HB2	2.10	0.51
1:J:266:GLN:O	1:J:270:ASN:HB2	2.10	0.51
1:K:82:TYR:HB3	1:K:85:ILE:HD12	1.92	0.51
1:O:266:GLN:O	1:O:270:ASN:HB2	2.10	0.51
1:U:226:ASP:O	1:V:209:HIS:CD2	2.64	0.51
1:a:57:TYR:HA	1:a:137:GLN:HE22	1.76	0.51
1:b:392:LEU:HA	1:b:395:LYS:HZ3	1.75	0.51
1:c:396:LEU:HD13	1:d:372:HIS:HA	1.91	0.51
1:e:276:LYS:HG3	1:e:280:ARG:HH11	1.76	0.51
1:f:57:TYR:HA	1:f:137:GLN:HE22	1.76	0.51
1:h:266:GLN:O	1:h:270:ASN:HB2	2.10	0.51
1:l:192:LEU:HD21	1:l:356:ILE:HG21	1.91	0.51
1:o:35:LYS:HG3	1:o:44:ILE:HG13	1.91	0.51
1:q:35:LYS:HG3	1:q:44:ILE:HG13	1.91	0.51
1:t:232:LYS:HG2	1:t:247:SER:HA	1.93	0.51
1:z:276:LYS:HG3	1:z:280:ARG:HH11	1.76	0.51
1:3:266:GLN:O	1:3:270:ASN:HB2	2.10	0.51
1:5:266:GLN:O	1:5:270:ASN:HB2	2.10	0.51
1:6:81:LYS:HE3	1:6:131:ASP:H	1.76	0.51
1:7:57:TYR:HA	1:7:137:GLN:HE22	1.76	0.51
1:7:266:GLN:O	1:7:270:ASN:HB2	2.10	0.51
1:9:82:TYR:HB3	1:9:85:ILE:HD12	1.92	0.51
1:B:276:LYS:HG3	1:B:280:ARG:HH11	1.76	0.51
1:G:266:GLN:O	1:G:270:ASN:HB2	2.10	0.51
1:H:232:LYS:HG2	1:H:247:SER:HA	1.93	0.51
1:I:26:LEU:HD12	1:I:127:GLN:HB2	1.91	0.51
1:I:82:TYR:HB3	1:I:85:ILE:HD12	1.92	0.51
1:I:266:GLN:O	1:I:270:ASN:HB2	2.10	0.51
1:Q:266:GLN:O	1:Q:270:ASN:HB2	2.10	0.51
1:T:192:LEU:HD21	1:T:356:ILE:HG21	1.91	0.51
1:U:232:LYS:HG2	1:U:247:SER:HA	1.93	0.51
1:b:276:LYS:HG3	1:b:280:ARG:HH11	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:276:LYS:HG3	1:d:280:ARG:HH11	1.76	0.51
1:d:392:LEU:HA	1:d:395:LYS:HZ3	1.76	0.51
1:e:232:LYS:HG2	1:e:247:SER:HA	1.93	0.51
1:l:266:GLN:O	1:l:270:ASN:HB2	2.10	0.51
1:v:276:LYS:HG3	1:v:280:ARG:HH11	1.76	0.51
1:y:58:GLN:HB2	1:y:62:LYS:HD3	1.93	0.51
1:4:232:LYS:HG2	1:4:247:SER:HA	1.93	0.51
1:4:266:GLN:O	1:4:270:ASN:HB2	2.10	0.51
1:6:192:LEU:HD21	1:6:356:ILE:HG21	1.91	0.51
1:8:232:LYS:HG2	1:8:247:SER:HA	1.93	0.51
1:B:57:TYR:HA	1:B:137:GLN:HE22	1.76	0.51
1:B:82:TYR:HB3	1:B:85:ILE:HD12	1.92	0.51
1:J:57:TYR:HA	1:J:137:GLN:HE22	1.76	0.51
1:L:57:TYR:HA	1:L:137:GLN:HE22	1.76	0.51
1:L:58:GLN:HB2	1:L:62:LYS:HD3	1.93	0.51
1:P:58:GLN:HB2	1:P:62:LYS:HD3	1.93	0.51
1:S:57:TYR:HA	1:S:137:GLN:HE22	1.76	0.51
1:W:57:TYR:HA	1:W:137:GLN:HE22	1.76	0.51
1:a:276:LYS:HG3	1:a:280:ARG:HH11	1.76	0.51
1:s:58:GLN:HB2	1:s:62:LYS:HD3	1.93	0.51
1:1:82:TYR:HB3	1:1:85:ILE:HD12	1.92	0.51
1:2:58:GLN:OE1	1:Y:247:SER:HB2	2.11	0.51
1:3:57:TYR:HA	1:3:137:GLN:HE22	1.76	0.51
1:9:35:LYS:HG3	1:9:44:ILE:HG13	1.91	0.51
1:9:57:TYR:HA	1:9:137:GLN:HE22	1.76	0.51
1:9:232:LYS:HG2	1:9:247:SER:HA	1.93	0.51
1:9:266:GLN:O	1:9:270:ASN:HB2	2.10	0.51
1:AA:276:LYS:HG3	1:AA:280:ARG:HH11	1.76	0.51
1:G:57:TYR:HA	1:G:137:GLN:HE22	1.76	0.51
1:I:368:GLY:CA	1:J:400:TYR:CD2	2.94	0.51
1:M:35:LYS:HG3	1:M:44:ILE:HG13	1.91	0.51
1:N:232:LYS:HG2	1:N:247:SER:HA	1.93	0.51
1:X:57:TYR:HA	1:X:137:GLN:HE22	1.76	0.51
1:Y:81:LYS:HE3	1:Y:131:ASP:H	1.76	0.51
1:c:232:LYS:HG2	1:c:247:SER:HA	1.93	0.51
1:f:58:GLN:HB2	1:f:62:LYS:HD3	1.93	0.51
1:i:57:TYR:HA	1:i:137:GLN:HE22	1.76	0.51
1:j:81:LYS:HE3	1:j:131:ASP:H	1.76	0.51
1:m:232:LYS:HG2	1:m:247:SER:HA	1.93	0.51
1:s:57:TYR:HA	1:s:137:GLN:HE22	1.76	0.51
1:t:35:LYS:HG3	1:t:44:ILE:HG13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:58:GLN:HB2	1:t:62:LYS:HD3	1.93	0.51
1:t:392:LEU:HA	1:t:395:LYS:HZ3	1.75	0.51
1:u:81:LYS:HE3	1:u:131:ASP:H	1.76	0.51
1:u:232:LYS:HG2	1:u:247:SER:HA	1.93	0.51
1:u:266:GLN:O	1:u:270:ASN:HB2	2.10	0.51
1:v:57:TYR:HA	1:v:137:GLN:HE22	1.76	0.51
1:w:81:LYS:HE3	1:w:131:ASP:H	1.76	0.51
1:w:226:ASP:O	1:x:209:HIS:CD2	2.64	0.51
1:x:58:GLN:HB2	1:x:62:LYS:HD3	1.93	0.51
1:4:81:LYS:HE3	1:4:131:ASP:H	1.76	0.51
1:5:57:TYR:HA	1:5:137:GLN:HE22	1.76	0.51
1:5:82:TYR:HB3	1:5:85:ILE:HD12	1.92	0.51
1:9:46:TYR:HE2	1:9:109:ARG:HG2	1.76	0.51
1:A:379:ALA:HB1	1:B:390:ARG:NH1	2.08	0.51
1:B:81:LYS:HE3	1:B:131:ASP:H	1.76	0.51
1:D:46:TYR:HE2	1:D:109:ARG:HG2	1.76	0.51
1:D:58:GLN:HB2	1:D:62:LYS:HD3	1.93	0.51
1:D:276:LYS:HG3	1:D:280:ARG:HH11	1.76	0.51
1:E:232:LYS:HG2	1:E:247:SER:HA	1.93	0.51
1:E:276:LYS:HG3	1:E:280:ARG:HH11	1.76	0.51
1:G:46:TYR:HE2	1:G:109:ARG:HG2	1.76	0.51
1:K:81:LYS:HE3	1:K:131:ASP:H	1.76	0.51
1:P:81:LYS:HE3	1:P:131:ASP:H	1.76	0.51
1:W:232:LYS:HG2	1:W:247:SER:HA	1.93	0.51
1:X:58:GLN:HB2	1:X:62:LYS:HD3	1.93	0.51
1:a:82:TYR:HB3	1:a:85:ILE:HD12	1.92	0.51
1:b:74:LEU:HD11	1:b:132:LEU:HA	1.94	0.51
1:d:46:TYR:HE2	1:d:109:ARG:HG2	1.76	0.51
1:h:82:TYR:HB3	1:h:85:ILE:HD12	1.92	0.51
1:k:81:LYS:HE3	1:k:131:ASP:H	1.76	0.51
1:m:266:GLN:O	1:m:270:ASN:HB2	2.10	0.51
1:t:46:TYR:HE2	1:t:109:ARG:HG2	1.76	0.51
1:w:58:GLN:HB2	1:w:62:LYS:HD3	1.93	0.51
1:8:81:LYS:HE3	1:8:131:ASP:H	1.76	0.50
1:9:276:LYS:HG3	1:9:280:ARG:HH11	1.76	0.50
1:AB:82:TYR:HB3	1:AB:85:ILE:HD12	1.92	0.50
1:C:46:TYR:HE2	1:C:109:ARG:HG2	1.77	0.50
1:D:82:TYR:HB3	1:D:85:ILE:HD12	1.92	0.50
1:F:276:LYS:HG3	1:F:280:ARG:HH11	1.76	0.50
1:H:81:LYS:HE3	1:H:131:ASP:H	1.76	0.50
1:L:35:LYS:HG3	1:L:44:ILE:HG13	1.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:57:TYR:HA	1:N:137:GLN:HE22	1.76	0.50
1:S:81:LYS:HE3	1:S:131:ASP:H	1.76	0.50
1:f:379:ALA:HB1	1:g:390:ARG:NH1	2.05	0.50
1:h:232:LYS:HG2	1:h:247:SER:HA	1.93	0.50
1:m:46:TYR:HE2	1:m:109:ARG:HG2	1.76	0.50
1:m:58:GLN:HB2	1:m:62:LYS:HD3	1.93	0.50
1:n:58:GLN:HB2	1:n:62:LYS:HD3	1.93	0.50
1:r:57:TYR:HA	1:r:137:GLN:HE22	1.76	0.50
1:s:46:TYR:HE2	1:s:109:ARG:HG2	1.76	0.50
1:v:46:TYR:HE2	1:v:109:ARG:HG2	1.76	0.50
1:w:46:TYR:HE2	1:w:109:ARG:HG2	1.76	0.50
1:w:74:LEU:HD11	1:w:132:LEU:HA	1.94	0.50
1:y:46:TYR:HE2	1:y:109:ARG:HG2	1.76	0.50
1:z:35:LYS:HG3	1:z:44:ILE:HG13	1.91	0.50
1:0:392:LEU:HA	1:0:395:LYS:HZ3	1.76	0.50
1:1:81:LYS:HE3	1:1:131:ASP:H	1.76	0.50
1:AA:232:LYS:HG2	1:AA:247:SER:HA	1.93	0.50
1:G:74:LEU:HD11	1:G:132:LEU:HA	1.94	0.50
1:G:276:LYS:HG3	1:G:280:ARG:HH11	1.76	0.50
1:I:57:TYR:HA	1:I:137:GLN:HE22	1.76	0.50
1:J:46:TYR:HE2	1:J:109:ARG:HG2	1.76	0.50
1:K:46:TYR:HE2	1:K:109:ARG:HG2	1.76	0.50
1:K:74:LEU:HD11	1:K:132:LEU:HA	1.93	0.50
1:N:81:LYS:HE3	1:N:131:ASP:H	1.76	0.50
1:Q:81:LYS:HE3	1:Q:131:ASP:H	1.76	0.50
1:Q:82:TYR:HB3	1:Q:85:ILE:HD12	1.92	0.50
1:R:57:TYR:HA	1:R:137:GLN:HE22	1.76	0.50
1:V:58:GLN:HB2	1:V:62:LYS:HD3	1.93	0.50
1:X:276:LYS:HG3	1:X:280:ARG:HH11	1.76	0.50
1:Y:58:GLN:HB2	1:Y:62:LYS:HD3	1.93	0.50
1:c:300:CYS:HB3	1:o:318:LEU:CD2	2.38	0.50
1:f:276:LYS:HG3	1:f:280:ARG:HH11	1.76	0.50
1:g:276:LYS:HG3	1:g:280:ARG:HH11	1.76	0.50
1:h:35:LYS:HG3	1:h:44:ILE:HG13	1.91	0.50
1:i:46:TYR:HE2	1:i:109:ARG:HG2	1.77	0.50
1:k:57:TYR:HA	1:k:137:GLN:HE22	1.76	0.50
1:u:82:TYR:HB3	1:u:85:ILE:HD12	1.92	0.50
1:v:58:GLN:HB2	1:v:62:LYS:HD3	1.93	0.50
1:y:74:LEU:HD11	1:y:132:LEU:HA	1.94	0.50
1:y:81:LYS:HE3	1:y:131:ASP:H	1.76	0.50
1:z:232:LYS:HG2	1:z:247:SER:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:46:TYR:HE2	1:0:109:ARG:HG2	1.77	0.50
1:0:57:TYR:HA	1:0:137:GLN:HE22	1.76	0.50
1:4:74:LEU:HD11	1:4:132:LEU:HA	1.94	0.50
1:9:81:LYS:HE3	1:9:131:ASP:H	1.76	0.50
1:A:232:LYS:HG2	1:A:247:SER:HA	1.93	0.50
1:AA:46:TYR:HE2	1:AA:109:ARG:HG2	1.77	0.50
1:F:81:LYS:HE3	1:F:131:ASP:H	1.76	0.50
1:G:232:LYS:HG2	1:G:247:SER:HA	1.93	0.50
1:I:35:LYS:HG3	1:I:44:ILE:HG13	1.91	0.50
1:I:232:LYS:HG2	1:I:247:SER:HA	1.93	0.50
1:I:379:ALA:HB1	1:J:390:ARG:NH1	2.23	0.50
1:J:81:LYS:HE3	1:J:131:ASP:H	1.76	0.50
1:J:276:LYS:HG3	1:J:280:ARG:HH11	1.76	0.50
1:K:58:GLN:HB2	1:K:62:LYS:HD3	1.93	0.50
1:K:232:LYS:HG2	1:K:247:SER:HA	1.93	0.50
1:L:82:TYR:HB3	1:L:85:ILE:HD12	1.92	0.50
1:O:35:LYS:HG3	1:O:44:ILE:HG13	1.91	0.50
1:P:74:LEU:HD11	1:P:132:LEU:HA	1.94	0.50
1:Q:73:TRP:O	1:Q:77:ARG:HG2	2.12	0.50
1:R:81:LYS:HE3	1:R:131:ASP:H	1.76	0.50
1:X:46:TYR:HE2	1:X:109:ARG:HG2	1.76	0.50
1:Z:46:TYR:HE2	1:Z:109:ARG:HG2	1.77	0.50
1:Z:276:LYS:HG3	1:Z:280:ARG:HH11	1.76	0.50
1:Z:392:LEU:HA	1:Z:395:LYS:HZ3	1.76	0.50
1:c:400:TYR:CG	1:d:368:GLY:CA	2.94	0.50
1:d:81:LYS:HE3	1:d:131:ASP:H	1.76	0.50
1:d:82:TYR:HB3	1:d:85:ILE:HD12	1.92	0.50
1:f:46:TYR:HE2	1:f:109:ARG:HG2	1.77	0.50
1:f:74:LEU:HD11	1:f:132:LEU:HA	1.94	0.50
1:f:396:LEU:HD13	1:g:372:HIS:HA	1.92	0.50
1:h:393:LEU:HD22	1:i:372:HIS:NE2	2.27	0.50
1:j:58:GLN:HB2	1:j:62:LYS:HD3	1.93	0.50
1:m:74:LEU:HD11	1:m:132:LEU:HA	1.93	0.50
1:q:74:LEU:HD11	1:q:132:LEU:HA	1.94	0.50
1:q:266:GLN:O	1:q:270:ASN:HB2	2.10	0.50
1:r:46:TYR:HE2	1:r:109:ARG:HG2	1.77	0.50
1:r:81:LYS:HE3	1:r:131:ASP:H	1.76	0.50
1:v:73:TRP:O	1:v:77:ARG:HG2	2.12	0.50
1:v:232:LYS:HG2	1:v:247:SER:HA	1.93	0.50
1:2:278:TYR:CD2	1:2:367:MET:HE3	2.47	0.50
1:4:58:GLN:HB2	1:4:62:LYS:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:276:LYS:HG3	1:4:280:ARG:HH11	1.76	0.50
1:4:278:TYR:CD2	1:4:367:MET:HE3	2.47	0.50
1:5:278:TYR:CD2	1:5:367:MET:HE3	2.47	0.50
1:8:276:LYS:HG3	1:8:280:ARG:HH11	1.76	0.50
1:9:73:TRP:O	1:9:77:ARG:HG2	2.12	0.50
1:A:57:TYR:HA	1:A:137:GLN:HE22	1.76	0.50
1:A:300:CYS:HB3	1:X:318:LEU:HD21	1.92	0.50
1:AA:57:TYR:HA	1:AA:137:GLN:HE22	1.76	0.50
1:AB:58:GLN:HB2	1:AB:62:LYS:HD3	1.93	0.50
1:B:46:TYR:HE2	1:B:109:ARG:HG2	1.77	0.50
1:C:82:TYR:HB3	1:C:85:ILE:HD12	1.92	0.50
1:E:58:GLN:HB2	1:E:62:LYS:HD3	1.93	0.50
1:H:278:TYR:CD2	1:H:367:MET:HE3	2.47	0.50
1:L:278:TYR:CD2	1:L:367:MET:HE3	2.47	0.50
1:M:266:GLN:O	1:M:270:ASN:HB2	2.10	0.50
1:N:74:LEU:HD11	1:N:132:LEU:HA	1.94	0.50
1:O:276:LYS:HG3	1:O:280:ARG:HH11	1.76	0.50
1:S:73:TRP:O	1:S:77:ARG:HG2	2.12	0.50
1:T:74:LEU:HD11	1:T:132:LEU:HA	1.94	0.50
1:U:46:TYR:HE2	1:U:109:ARG:HG2	1.77	0.50
1:U:82:TYR:HB3	1:U:85:ILE:HD12	1.92	0.50
1:V:232:LYS:HG2	1:V:247:SER:HA	1.93	0.50
1:X:81:LYS:HE3	1:X:131:ASP:H	1.76	0.50
1:a:46:TYR:HE2	1:a:109:ARG:HG2	1.76	0.50
1:a:58:GLN:HB2	1:a:62:LYS:HD3	1.93	0.50
1:b:81:LYS:HE3	1:b:131:ASP:H	1.76	0.50
1:e:57:TYR:HA	1:e:137:GLN:HE22	1.76	0.50
1:e:74:LEU:HD11	1:e:132:LEU:HA	1.93	0.50
1:g:57:TYR:HA	1:g:137:GLN:HE22	1.76	0.50
1:j:46:TYR:HE2	1:j:109:ARG:HG2	1.77	0.50
1:l:46:TYR:HE2	1:l:109:ARG:HG2	1.76	0.50
1:m:73:TRP:O	1:m:77:ARG:HG2	2.12	0.50
1:o:192:LEU:HD21	1:o:356:ILE:HG21	1.91	0.50
1:p:58:GLN:HB2	1:p:62:LYS:HD3	1.93	0.50
1:s:276:LYS:HG3	1:s:280:ARG:HH11	1.76	0.50
1:t:74:LEU:HD11	1:t:132:LEU:HA	1.94	0.50
1:t:276:LYS:HG3	1:t:280:ARG:HH11	1.76	0.50
1:u:73:TRP:O	1:u:77:ARG:HG2	2.12	0.50
1:u:74:LEU:HD11	1:u:132:LEU:HA	1.94	0.50
1:x:276:LYS:HG3	1:x:280:ARG:HH11	1.76	0.50
1:y:57:TYR:HA	1:y:137:GLN:HE22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:82:TYR:HB3	1:z:85:ILE:HD12	1.92	0.50
1:z:278:TYR:CD2	1:z:367:MET:HE3	2.47	0.50
1:0:276:LYS:HG3	1:0:280:ARG:HH11	1.76	0.50
1:1:58:GLN:HB2	1:1:62:LYS:HD3	1.93	0.50
1:3:278:TYR:CD2	1:3:367:MET:HE3	2.47	0.50
1:6:57:TYR:HA	1:6:137:GLN:HE22	1.76	0.50
1:6:58:GLN:HB2	1:6:62:LYS:HD3	1.93	0.50
1:7:73:TRP:O	1:7:77:ARG:HG2	2.12	0.50
1:7:278:TYR:CD2	1:7:367:MET:HE3	2.47	0.50
1:A:276:LYS:HG3	1:A:280:ARG:HH11	1.76	0.50
1:AB:232:LYS:HG2	1:AB:247:SER:HA	1.93	0.50
1:C:81:LYS:HE3	1:C:131:ASP:H	1.76	0.50
1:E:73:TRP:O	1:E:77:ARG:HG2	2.12	0.50
1:E:82:TYR:HB3	1:E:85:ILE:HD12	1.92	0.50
1:F:232:LYS:HG2	1:F:247:SER:HA	1.93	0.50
1:H:82:TYR:HB3	1:H:85:ILE:HD12	1.92	0.50
1:J:58:GLN:HB2	1:J:62:LYS:HD3	1.93	0.50
1:J:74:LEU:HD11	1:J:132:LEU:HA	1.94	0.50
1:J:82:TYR:HB3	1:J:85:ILE:HD12	1.92	0.50
1:M:278:TYR:CD2	1:M:367:MET:HE3	2.47	0.50
1:N:58:GLN:HB2	1:N:62:LYS:HD3	1.93	0.50
1:N:278:TYR:CD2	1:N:367:MET:HE3	2.47	0.50
1:O:46:TYR:HE2	1:O:109:ARG:HG2	1.77	0.50
1:Q:115:ILE:HG22	1:Q:119:ARG:NE	2.27	0.50
1:Q:278:TYR:CD2	1:Q:367:MET:HE3	2.47	0.50
1:R:278:TYR:CD2	1:R:367:MET:HE3	2.47	0.50
1:T:46:TYR:HE2	1:T:109:ARG:HG2	1.76	0.50
1:T:278:TYR:CD2	1:T:367:MET:HE3	2.47	0.50
1:U:276:LYS:HG3	1:U:280:ARG:HH11	1.76	0.50
1:U:278:TYR:CD2	1:U:367:MET:HE3	2.47	0.50
1:V:57:TYR:HA	1:V:137:GLN:HE22	1.76	0.50
1:V:73:TRP:O	1:V:77:ARG:HG2	2.12	0.50
1:W:278:TYR:CD2	1:W:367:MET:HE3	2.47	0.50
1:X:232:LYS:HG2	1:X:247:SER:HA	1.93	0.50
1:Y:73:TRP:O	1:Y:77:ARG:HG2	2.12	0.50
1:Y:278:TYR:CD2	1:Y:367:MET:HE3	2.47	0.50
1:Z:74:LEU:HD11	1:Z:132:LEU:HA	1.94	0.50
1:Z:278:TYR:CD2	1:Z:367:MET:HE3	2.47	0.50
1:c:46:TYR:HE2	1:c:109:ARG:HG2	1.77	0.50
1:e:73:TRP:O	1:e:77:ARG:HG2	2.12	0.50
1:h:57:TYR:HA	1:h:137:GLN:HE22	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:73:TRP:O	1:i:77:ARG:HG2	2.12	0.50
1:i:276:LYS:HG3	1:i:280:ARG:HH11	1.76	0.50
1:j:57:TYR:HA	1:j:137:GLN:HE22	1.76	0.50
1:k:276:LYS:HG3	1:k:280:ARG:HH11	1.76	0.50
1:n:278:TYR:CD2	1:n:367:MET:HE3	2.47	0.50
1:o:81:LYS:HE3	1:o:131:ASP:H	1.76	0.50
1:v:74:LEU:HD11	1:v:132:LEU:HA	1.94	0.50
1:v:81:LYS:HE3	1:v:131:ASP:H	1.76	0.50
1:y:73:TRP:O	1:y:77:ARG:HG2	2.12	0.50
1:z:58:GLN:HB2	1:z:62:LYS:HD3	1.93	0.50
1:0:81:LYS:HE3	1:0:131:ASP:H	1.76	0.50
1:0:115:ILE:HG22	1:0:119:ARG:NE	2.27	0.50
1:1:278:TYR:CD2	1:1:367:MET:HE3	2.47	0.50
1:2:46:TYR:HE2	1:2:109:ARG:HG2	1.76	0.50
1:2:115:ILE:HG22	1:2:119:ARG:NE	2.27	0.50
1:3:81:LYS:HE3	1:3:131:ASP:H	1.76	0.50
1:3:115:ILE:HG22	1:3:119:ARG:NE	2.27	0.50
1:4:46:TYR:HE2	1:4:109:ARG:HG2	1.77	0.50
1:6:276:LYS:HG3	1:6:280:ARG:HH11	1.76	0.50
1:8:57:TYR:HA	1:8:137:GLN:HE22	1.76	0.50
1:8:115:ILE:HG22	1:8:119:ARG:NE	2.27	0.50
1:A:46:TYR:HE2	1:A:109:ARG:HG2	1.77	0.50
1:B:278:TYR:CD2	1:B:367:MET:HE3	2.47	0.50
1:C:276:LYS:HG3	1:C:280:ARG:HH11	1.76	0.50
1:E:46:TYR:HE2	1:E:109:ARG:HG2	1.77	0.50
1:E:74:LEU:HD11	1:E:132:LEU:HA	1.94	0.50
1:F:26:LEU:HD23	1:F:52:THR:HB	1.94	0.50
1:G:205:GLU:HG3	1:G:209:HIS:CE1	2.47	0.50
1:H:46:TYR:HE2	1:H:109:ARG:HG2	1.76	0.50
1:H:57:TYR:HA	1:H:137:GLN:HE22	1.76	0.50
1:H:73:TRP:O	1:H:77:ARG:HG2	2.12	0.50
1:I:115:ILE:HG22	1:I:119:ARG:NE	2.27	0.50
1:I:276:LYS:HG3	1:I:280:ARG:HH11	1.76	0.50
1:I:278:TYR:CD2	1:I:367:MET:HE3	2.47	0.50
1:J:115:ILE:HG22	1:J:119:ARG:NE	2.27	0.50
1:J:232:LYS:HG2	1:J:247:SER:HA	1.93	0.50
1:K:73:TRP:O	1:K:77:ARG:HG2	2.12	0.50
1:K:276:LYS:HG3	1:K:280:ARG:HH11	1.76	0.50
1:K:278:TYR:CD2	1:K:367:MET:HE3	2.47	0.50
1:L:73:TRP:O	1:L:77:ARG:HG2	2.12	0.50
1:N:73:TRP:O	1:N:77:ARG:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:278:TYR:CD2	1:O:367:MET:HE3	2.47	0.50
1:P:46:TYR:HE2	1:P:109:ARG:HG2	1.77	0.50
1:P:73:TRP:O	1:P:77:ARG:HG2	2.12	0.50
1:P:276:LYS:HG3	1:P:280:ARG:HH11	1.76	0.50
1:P:278:TYR:CD2	1:P:367:MET:HE3	2.47	0.50
1:R:115:ILE:HG22	1:R:119:ARG:NE	2.27	0.50
1:S:115:ILE:HG22	1:S:119:ARG:NE	2.27	0.50
1:T:205:GLU:HG3	1:T:209:HIS:CE1	2.47	0.50
1:U:115:ILE:HG22	1:U:119:ARG:NE	2.27	0.50
1:U:205:GLU:HG3	1:U:209:HIS:CE1	2.47	0.50
1:W:46:TYR:HE2	1:W:109:ARG:HG2	1.76	0.50
1:Y:82:TYR:HB3	1:Y:85:ILE:HD12	1.92	0.50
1:b:73:TRP:O	1:b:77:ARG:HG2	2.12	0.50
1:d:73:TRP:O	1:d:77:ARG:HG2	2.12	0.50
1:e:58:GLN:HB2	1:e:62:LYS:HD3	1.93	0.50
1:e:115:ILE:HG22	1:e:119:ARG:NE	2.27	0.50
1:f:82:TYR:HB3	1:f:85:ILE:HD12	1.92	0.50
1:f:205:GLU:HG3	1:f:209:HIS:CE1	2.47	0.50
1:g:115:ILE:HG22	1:g:119:ARG:NE	2.27	0.50
1:h:81:LYS:HE3	1:h:131:ASP:H	1.76	0.50
1:h:115:ILE:HG22	1:h:119:ARG:NE	2.27	0.50
1:i:232:LYS:HG2	1:i:247:SER:HA	1.93	0.50
1:j:205:GLU:HG3	1:j:209:HIS:CE1	2.47	0.50
1:k:232:LYS:HG2	1:k:247:SER:HA	1.93	0.50
1:l:58:GLN:HB2	1:l:62:LYS:HD3	1.93	0.50
1:l:74:LEU:HD11	1:l:132:LEU:HA	1.94	0.50
1:l:205:GLU:HG3	1:l:209:HIS:CE1	2.47	0.50
1:l:278:TYR:CD2	1:l:367:MET:HE3	2.47	0.50
1:m:115:ILE:HG22	1:m:119:ARG:NE	2.27	0.50
1:n:205:GLU:HG3	1:n:209:HIS:CE1	2.47	0.50
1:n:232:LYS:HG2	1:n:247:SER:HA	1.93	0.50
1:p:82:TYR:HB3	1:p:85:ILE:HD12	1.92	0.50
1:p:205:GLU:HG3	1:p:209:HIS:CE1	2.47	0.50
1:p:278:TYR:CD2	1:p:367:MET:HE3	2.47	0.50
1:q:81:LYS:HE3	1:q:131:ASP:H	1.76	0.50
1:r:392:LEU:HA	1:r:395:LYS:HZ3	1.76	0.50
1:t:266:GLN:O	1:t:270:ASN:HB2	2.10	0.50
1:u:46:TYR:HE2	1:u:109:ARG:HG2	1.77	0.50
1:u:278:TYR:CD2	1:u:367:MET:HE3	2.47	0.50
1:w:73:TRP:O	1:w:77:ARG:HG2	2.12	0.50
1:x:278:TYR:CD2	1:x:367:MET:HE3	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:278:TYR:CD2	1:y:367:MET:HE3	2.47	0.50
1:0:209:HIS:HB3	1:AA:227:PHE:HD1	1.77	0.50
1:0:278:TYR:CD2	1:0:367:MET:HE3	2.47	0.50
1:1:115:ILE:HG22	1:1:119:ARG:NE	2.27	0.50
1:2:74:LEU:HD11	1:2:132:LEU:HA	1.94	0.50
1:4:57:TYR:HA	1:4:137:GLN:HE22	1.76	0.50
1:4:73:TRP:O	1:4:77:ARG:HG2	2.12	0.50
1:5:46:TYR:CE2	1:5:109:ARG:HG2	2.47	0.50
1:5:232:LYS:HG2	1:5:247:SER:HA	1.93	0.50
1:6:278:TYR:CD2	1:6:367:MET:HE3	2.47	0.50
1:7:46:TYR:CE2	1:7:109:ARG:HG2	2.47	0.50
1:7:81:LYS:HE3	1:7:131:ASP:H	1.76	0.50
1:7:82:TYR:HB3	1:7:85:ILE:HD12	1.92	0.50
1:7:115:ILE:HG22	1:7:119:ARG:NE	2.27	0.50
1:8:278:TYR:CD2	1:8:367:MET:HE3	2.47	0.50
1:AB:46:TYR:HE2	1:AB:109:ARG:HG2	1.76	0.50
1:B:73:TRP:O	1:B:77:ARG:HG2	2.12	0.50
1:B:232:LYS:HG2	1:B:247:SER:HA	1.93	0.50
1:C:50:THR:HB	1:C:62:LYS:H	1.77	0.50
1:C:205:GLU:HG3	1:C:209:HIS:CE1	2.47	0.50
1:E:50:THR:HB	1:E:62:LYS:H	1.77	0.50
1:E:205:GLU:HG3	1:E:209:HIS:CE1	2.47	0.50
1:F:205:GLU:HG3	1:F:209:HIS:CE1	2.47	0.50
1:H:74:LEU:HD11	1:H:132:LEU:HA	1.94	0.50
1:H:115:ILE:HG22	1:H:119:ARG:NE	2.27	0.50
1:H:205:GLU:HG3	1:H:209:HIS:CE1	2.47	0.50
1:J:46:TYR:CE2	1:J:109:ARG:HG2	2.47	0.50
1:J:73:TRP:O	1:J:77:ARG:HG2	2.12	0.50
1:K:205:GLU:HG3	1:K:209:HIS:CE1	2.47	0.50
1:M:46:TYR:HE2	1:M:109:ARG:HG2	1.76	0.50
1:M:57:TYR:HA	1:M:137:GLN:HE22	1.76	0.50
1:M:232:LYS:HG2	1:M:247:SER:HA	1.93	0.50
1:N:205:GLU:HG3	1:N:209:HIS:CE1	2.47	0.50
1:P:205:GLU:HG3	1:P:209:HIS:CE1	2.47	0.50
1:Q:58:GLN:HB2	1:Q:62:LYS:HD3	1.93	0.50
1:R:205:GLU:HG3	1:R:209:HIS:CE1	2.47	0.50
1:S:46:TYR:CE2	1:S:109:ARG:HG2	2.47	0.50
1:S:276:LYS:HG3	1:S:280:ARG:HH11	1.76	0.50
1:U:57:TYR:HA	1:U:137:GLN:HE22	1.76	0.50
1:V:276:LYS:HG3	1:V:280:ARG:HH11	1.76	0.50
1:W:81:LYS:HE3	1:W:131:ASP:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:205:GLU:HG3	1:W:209:HIS:CE1	2.47	0.50
1:Z:115:ILE:HG22	1:Z:119:ARG:NE	2.27	0.50
1:b:46:TYR:HE2	1:b:109:ARG:HG2	1.77	0.50
1:c:205:GLU:HG3	1:c:209:HIS:CE1	2.47	0.50
1:d:58:GLN:HB2	1:d:62:LYS:HD3	1.93	0.50
1:d:205:GLU:HG3	1:d:209:HIS:CE1	2.47	0.50
1:d:278:TYR:CD2	1:d:367:MET:HE3	2.47	0.50
1:e:81:LYS:HE3	1:e:131:ASP:H	1.76	0.50
1:f:50:THR:HB	1:f:62:LYS:H	1.77	0.50
1:g:74:LEU:HD11	1:g:132:LEU:HA	1.94	0.50
1:g:205:GLU:HG3	1:g:209:HIS:CE1	2.47	0.50
1:h:205:GLU:HG3	1:h:209:HIS:CE1	2.47	0.50
1:k:46:TYR:CE2	1:k:109:ARG:HG2	2.47	0.50
1:k:50:THR:HB	1:k:62:LYS:H	1.77	0.50
1:k:73:TRP:O	1:k:77:ARG:HG2	2.12	0.50
1:k:205:GLU:HG3	1:k:209:HIS:CE1	2.47	0.50
1:l:73:TRP:O	1:l:77:ARG:HG2	2.12	0.50
1:m:278:TYR:CD2	1:m:367:MET:HE3	2.47	0.50
1:n:50:THR:HB	1:n:62:LYS:H	1.77	0.50
1:n:115:ILE:HG22	1:n:119:ARG:NE	2.27	0.50
1:o:73:TRP:O	1:o:77:ARG:HG2	2.12	0.50
1:o:232:LYS:HG2	1:o:247:SER:HA	1.93	0.50
1:p:50:THR:HB	1:p:62:LYS:H	1.77	0.50
1:r:82:TYR:HB3	1:r:85:ILE:HD12	1.92	0.50
1:s:232:LYS:HG2	1:s:247:SER:HA	1.93	0.50
1:u:57:TYR:HA	1:u:137:GLN:HE22	1.76	0.50
1:u:58:GLN:HB2	1:u:62:LYS:HD3	1.93	0.50
1:v:82:TYR:HB3	1:v:85:ILE:HD12	1.92	0.50
1:v:115:ILE:HG22	1:v:119:ARG:NE	2.27	0.50
1:w:278:TYR:CD2	1:w:367:MET:HE3	2.47	0.50
1:x:46:TYR:HE2	1:x:109:ARG:HG2	1.77	0.50
1:x:74:LEU:HD11	1:x:132:LEU:HA	1.94	0.50
1:0:73:TRP:O	1:0:77:ARG:HG2	2.12	0.50
1:1:46:TYR:CE2	1:1:109:ARG:HG2	2.47	0.50
1:1:73:TRP:O	1:1:77:ARG:HG2	2.12	0.50
1:2:57:TYR:HA	1:2:137:GLN:HE22	1.76	0.50
1:2:73:TRP:O	1:2:77:ARG:HG2	2.12	0.50
1:4:115:ILE:HG22	1:4:119:ARG:NE	2.27	0.50
1:5:58:GLN:HB2	1:5:62:LYS:HD3	1.93	0.50
1:6:115:ILE:HG22	1:6:119:ARG:NE	2.27	0.50
1:7:58:GLN:HB2	1:7:62:LYS:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:46:TYR:HE2	1:8:109:ARG:HG2	1.77	0.50
1:A:50:THR:HB	1:A:62:LYS:H	1.77	0.50
1:A:205:GLU:HG3	1:A:209:HIS:CE1	2.47	0.50
1:B:46:TYR:CE2	1:B:109:ARG:HG2	2.47	0.50
1:B:392:LEU:HA	1:B:395:LYS:HZ3	1.77	0.50
1:C:57:TYR:HA	1:C:137:GLN:HE22	1.76	0.50
1:C:278:TYR:CD2	1:C:367:MET:HE3	2.47	0.50
1:D:81:LYS:HE3	1:D:131:ASP:H	1.76	0.50
1:D:115:ILE:HG22	1:D:119:ARG:NE	2.27	0.50
1:D:205:GLU:HG3	1:D:209:HIS:CE1	2.47	0.50
1:E:81:LYS:HE3	1:E:131:ASP:H	1.76	0.50
1:I:46:TYR:CE2	1:I:109:ARG:HG2	2.47	0.50
1:I:205:GLU:HG3	1:I:209:HIS:CE1	2.47	0.50
1:J:205:GLU:HG3	1:J:209:HIS:CE1	2.47	0.50
1:L:115:ILE:HG22	1:L:119:ARG:NE	2.27	0.50
1:M:115:ILE:HG22	1:M:119:ARG:NE	2.27	0.50
1:M:276:LYS:HG3	1:M:280:ARG:HH11	1.76	0.50
1:N:46:TYR:HE2	1:N:109:ARG:HG2	1.77	0.50
1:O:73:TRP:O	1:O:77:ARG:HG2	2.12	0.50
1:O:232:LYS:HG2	1:O:247:SER:HA	1.93	0.50
1:P:57:TYR:HA	1:P:137:GLN:HE22	1.76	0.50
1:Q:46:TYR:CE2	1:Q:109:ARG:HG2	2.47	0.50
1:Q:205:GLU:HG3	1:Q:209:HIS:CE1	2.47	0.50
1:R:46:TYR:CE2	1:R:109:ARG:HG2	2.47	0.50
1:S:50:THR:HB	1:S:62:LYS:H	1.77	0.50
1:T:57:TYR:HA	1:T:137:GLN:HE22	1.76	0.50
1:T:115:ILE:HG22	1:T:119:ARG:NE	2.27	0.50
1:T:276:LYS:HG3	1:T:280:ARG:HH11	1.76	0.50
1:U:50:THR:HB	1:U:62:LYS:H	1.77	0.50
1:V:46:TYR:CE2	1:V:109:ARG:HG2	2.47	0.50
1:W:50:THR:HB	1:W:62:LYS:H	1.77	0.50
1:W:82:TYR:HB3	1:W:85:ILE:HD12	1.92	0.50
1:X:73:TRP:O	1:X:77:ARG:HG2	2.12	0.50
1:Y:46:TYR:CE2	1:Y:109:ARG:HG2	2.47	0.50
1:Y:205:GLU:HG3	1:Y:209:HIS:CE1	2.47	0.50
1:a:50:THR:HB	1:a:62:LYS:H	1.77	0.50
1:a:232:LYS:HG2	1:a:247:SER:HA	1.93	0.50
1:b:57:TYR:HA	1:b:137:GLN:HE22	1.76	0.50
1:c:26:LEU:HD23	1:c:52:THR:HB	1.94	0.50
1:c:46:TYR:CE2	1:c:109:ARG:HG2	2.47	0.50
1:c:50:THR:HB	1:c:62:LYS:H	1.77	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:276:LYS:HG3	1:c:280:ARG:HH11	1.76	0.50
1:c:278:TYR:CD2	1:c:367:MET:HE3	2.47	0.50
1:d:46:TYR:CE2	1:d:109:ARG:HG2	2.47	0.50
1:d:57:TYR:HA	1:d:137:GLN:HE22	1.76	0.50
1:f:73:TRP:O	1:f:77:ARG:HG2	2.12	0.50
1:g:58:GLN:HB2	1:g:62:LYS:HD3	1.93	0.50
1:h:276:LYS:HG3	1:h:280:ARG:HH11	1.76	0.50
1:h:278:TYR:CD2	1:h:367:MET:HE3	2.47	0.50
1:i:46:TYR:CE2	1:i:109:ARG:HG2	2.47	0.50
1:i:115:ILE:HG22	1:i:119:ARG:NE	2.27	0.50
1:j:73:TRP:O	1:j:77:ARG:HG2	2.12	0.50
1:j:74:LEU:HD11	1:j:132:LEU:HA	1.94	0.50
1:j:392:LEU:HA	1:j:395:LYS:HZ3	1.77	0.50
1:k:26:LEU:HD23	1:k:52:THR:HB	1.94	0.50
1:k:115:ILE:HG22	1:k:119:ARG:NE	2.27	0.50
1:l:57:TYR:HA	1:l:137:GLN:HE22	1.76	0.50
1:l:115:ILE:HG22	1:l:119:ARG:NE	2.27	0.50
1:n:74:LEU:HD11	1:n:132:LEU:HA	1.94	0.50
1:o:46:TYR:HE2	1:o:109:ARG:HG2	1.77	0.50
1:q:57:TYR:HA	1:q:137:GLN:HE22	1.76	0.50
1:q:276:LYS:HG3	1:q:280:ARG:HH11	1.76	0.50
1:r:50:THR:HB	1:r:62:LYS:H	1.77	0.50
1:r:73:TRP:O	1:r:77:ARG:HG2	2.12	0.50
1:r:278:TYR:CD2	1:r:367:MET:HE3	2.47	0.50
1:s:115:ILE:HG22	1:s:119:ARG:NE	2.27	0.50
1:t:57:TYR:HA	1:t:137:GLN:HE22	1.76	0.50
1:t:115:ILE:HG22	1:t:119:ARG:NE	2.27	0.50
1:t:205:GLU:HG3	1:t:209:HIS:CE1	2.47	0.50
1:w:205:GLU:HG3	1:w:209:HIS:CE1	2.47	0.50
1:0:46:TYR:CE2	1:0:109:ARG:HG2	2.47	0.50
1:0:50:THR:HB	1:0:62:LYS:H	1.77	0.50
1:1:26:LEU:HD23	1:1:52:THR:HB	1.94	0.50
1:3:46:TYR:CE2	1:3:109:ARG:HG2	2.47	0.50
1:3:46:TYR:HE2	1:3:109:ARG:HG2	1.76	0.50
1:5:73:TRP:O	1:5:77:ARG:HG2	2.12	0.50
1:6:46:TYR:CE2	1:6:109:ARG:HG2	2.47	0.50
1:6:73:TRP:O	1:6:77:ARG:HG2	2.12	0.50
1:8:46:TYR:CE2	1:8:109:ARG:HG2	2.47	0.50
1:9:50:THR:HB	1:9:62:LYS:H	1.77	0.50
1:9:278:TYR:CD2	1:9:367:MET:HE3	2.47	0.50
1:A:368:GLY:HA2	1:B:400:TYR:CG	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:50:THR:HB	1:AA:62:LYS:H	1.77	0.50
1:AB:50:THR:HB	1:AB:62:LYS:H	1.77	0.50
1:AB:74:LEU:HD11	1:AB:132:LEU:HA	1.94	0.50
1:C:73:TRP:O	1:C:77:ARG:HG2	2.12	0.50
1:E:115:ILE:HG22	1:E:119:ARG:NE	2.27	0.50
1:F:46:TYR:CE2	1:F:109:ARG:HG2	2.47	0.50
1:F:278:TYR:CD2	1:F:367:MET:HE3	2.47	0.50
1:G:50:THR:HB	1:G:62:LYS:H	1.77	0.50
1:L:74:LEU:HD11	1:L:132:LEU:HA	1.94	0.50
1:M:73:TRP:O	1:M:77:ARG:HG2	2.12	0.50
1:O:58:GLN:HB2	1:O:62:LYS:HD3	1.93	0.50
1:P:232:LYS:HG2	1:P:247:SER:HA	1.93	0.50
1:R:46:TYR:HE2	1:R:109:ARG:HG2	1.76	0.50
1:R:50:THR:HB	1:R:62:LYS:H	1.77	0.50
1:R:276:LYS:HG3	1:R:280:ARG:HH11	1.76	0.50
1:S:26:LEU:HD23	1:S:52:THR:HB	1.94	0.50
1:S:278:TYR:CD2	1:S:367:MET:HE3	2.47	0.50
1:T:58:GLN:HB2	1:T:62:LYS:HD3	1.93	0.50
1:T:81:LYS:HE3	1:T:131:ASP:H	1.76	0.50
1:U:73:TRP:O	1:U:77:ARG:HG2	2.12	0.50
1:U:81:LYS:HE3	1:U:131:ASP:H	1.76	0.50
1:W:46:TYR:CE2	1:W:109:ARG:HG2	2.47	0.50
1:W:58:GLN:HB2	1:W:62:LYS:HD3	1.93	0.50
1:W:115:ILE:HG22	1:W:119:ARG:NE	2.27	0.50
1:W:276:LYS:HG3	1:W:280:ARG:HH11	1.76	0.50
1:Z:81:LYS:HE3	1:Z:131:ASP:H	1.76	0.50
1:a:74:LEU:HD11	1:a:132:LEU:HA	1.94	0.50
1:a:115:ILE:HG22	1:a:119:ARG:NE	2.27	0.50
1:b:58:GLN:HB2	1:b:62:LYS:HD3	1.93	0.50
1:c:73:TRP:O	1:c:77:ARG:HG2	2.12	0.50
1:e:50:THR:HB	1:e:62:LYS:H	1.77	0.50
1:e:278:TYR:CD2	1:e:367:MET:HE3	2.47	0.50
1:f:232:LYS:HG2	1:f:247:SER:HA	1.93	0.50
1:g:81:LYS:HE3	1:g:131:ASP:H	1.76	0.50
1:g:278:TYR:CD2	1:g:367:MET:HE3	2.47	0.50
1:h:46:TYR:HE2	1:h:109:ARG:HG2	1.77	0.50
1:i:81:LYS:HE3	1:i:131:ASP:H	1.76	0.50
1:i:205:GLU:HG3	1:i:209:HIS:CE1	2.47	0.50
1:i:278:TYR:CD2	1:i:367:MET:HE3	2.47	0.50
1:m:205:GLU:HG3	1:m:209:HIS:CE1	2.47	0.50
1:o:58:GLN:HB2	1:o:62:LYS:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:o:115:ILE:HG22	1:o:119:ARG:NE	2.27	0.50
1:p:74:LEU:HD11	1:p:132:LEU:HA	1.94	0.50
1:p:115:ILE:HG22	1:p:119:ARG:NE	2.27	0.50
1:q:46:TYR:HE2	1:q:109:ARG:HG2	1.76	0.50
1:r:205:GLU:HG3	1:r:209:HIS:CE1	2.47	0.50
1:r:276:LYS:HG3	1:r:280:ARG:HH11	1.76	0.50
1:t:81:LYS:HE3	1:t:131:ASP:H	1.76	0.50
1:v:278:TYR:CD2	1:v:367:MET:HE3	2.47	0.50
1:x:73:TRP:O	1:x:77:ARG:HG2	2.12	0.50
1:z:57:TYR:HA	1:z:137:GLN:HE22	1.76	0.50
1:z:81:LYS:HE3	1:z:131:ASP:H	1.76	0.50
1:0:205:GLU:HG3	1:0:209:HIS:CE1	2.47	0.49
1:1:205:GLU:HG3	1:1:209:HIS:CE1	2.47	0.49
1:2:81:LYS:HE3	1:2:131:ASP:H	1.76	0.49
1:2:276:LYS:HG3	1:2:280:ARG:HH11	1.76	0.49
1:3:58:GLN:HB2	1:3:62:LYS:HD3	1.93	0.49
1:3:73:TRP:O	1:3:77:ARG:HG2	2.12	0.49
1:3:232:LYS:HG2	1:3:247:SER:HA	1.93	0.49
1:6:46:TYR:HE2	1:6:109:ARG:HG2	1.76	0.49
1:6:232:LYS:HG2	1:6:247:SER:HA	1.93	0.49
1:8:58:GLN:HB2	1:8:62:LYS:HD3	1.93	0.49
1:8:205:GLU:HG3	1:8:209:HIS:CE1	2.47	0.49
1:9:58:GLN:HB2	1:9:62:LYS:HD3	1.93	0.49
1:AA:74:LEU:HD11	1:AA:132:LEU:HA	1.94	0.49
1:B:205:GLU:HG3	1:B:209:HIS:CE1	2.47	0.49
1:F:46:TYR:HE2	1:F:109:ARG:HG2	1.77	0.49
1:F:115:ILE:HG22	1:F:119:ARG:NE	2.27	0.49
1:G:73:TRP:O	1:G:77:ARG:HG2	2.12	0.49
1:I:58:GLN:HB2	1:I:62:LYS:HD3	1.93	0.49
1:K:115:ILE:HG22	1:K:119:ARG:NE	2.27	0.49
1:M:46:TYR:CE2	1:M:109:ARG:HG2	2.47	0.49
1:M:81:LYS:HE3	1:M:131:ASP:H	1.76	0.49
1:O:50:THR:HB	1:O:62:LYS:H	1.77	0.49
1:O:57:TYR:HA	1:O:137:GLN:HE22	1.76	0.49
1:S:205:GLU:HG3	1:S:209:HIS:CE1	2.47	0.49
1:U:46:TYR:CE2	1:U:109:ARG:HG2	2.47	0.49
1:Y:26:LEU:HD23	1:Y:52:THR:HB	1.94	0.49
1:b:205:GLU:HG3	1:b:209:HIS:CE1	2.47	0.49
1:b:278:TYR:CD2	1:b:367:MET:HE3	2.47	0.49
1:d:74:LEU:HD11	1:d:132:LEU:HA	1.94	0.49
1:d:115:ILE:HG22	1:d:119:ARG:NE	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:d:232:LYS:HG2	1:d:247:SER:HA	1.93	0.49
1:e:46:TYR:HE2	1:e:109:ARG:HG2	1.77	0.49
1:h:46:TYR:CE2	1:h:109:ARG:HG2	2.47	0.49
1:i:74:LEU:HD11	1:i:132:LEU:HA	1.94	0.49
1:j:278:TYR:CD2	1:j:367:MET:HE3	2.47	0.49
1:l:26:LEU:HD23	1:l:52:THR:HB	1.94	0.49
1:n:46:TYR:HE2	1:n:109:ARG:HG2	1.76	0.49
1:o:26:LEU:HD23	1:o:52:THR:HB	1.94	0.49
1:o:46:TYR:CE2	1:o:109:ARG:HG2	2.47	0.49
1:o:57:TYR:HA	1:o:137:GLN:HE22	1.76	0.49
1:q:115:ILE:HG22	1:q:119:ARG:NE	2.27	0.49
1:q:205:GLU:HG3	1:q:209:HIS:CE1	2.47	0.49
1:s:81:LYS:HE3	1:s:131:ASP:H	1.76	0.49
1:u:115:ILE:HG22	1:u:119:ARG:NE	2.27	0.49
1:w:232:LYS:HG2	1:w:247:SER:HA	1.93	0.49
1:w:276:LYS:HG3	1:w:280:ARG:HH11	1.76	0.49
1:x:81:LYS:HE3	1:x:131:ASP:H	1.76	0.49
1:x:232:LYS:HG2	1:x:247:SER:HA	1.93	0.49
1:y:115:ILE:HG22	1:y:119:ARG:NE	2.27	0.49
1:2:50:THR:HB	1:2:62:LYS:H	1.77	0.49
1:3:26:LEU:HD23	1:3:52:THR:HB	1.94	0.49
1:5:276:LYS:HG3	1:5:280:ARG:HH11	1.76	0.49
1:6:50:THR:HB	1:6:62:LYS:H	1.77	0.49
1:7:205:GLU:HG3	1:7:209:HIS:CE1	2.47	0.49
1:8:50:THR:HB	1:8:62:LYS:H	1.77	0.49
1:8:74:LEU:HD11	1:8:132:LEU:HA	1.94	0.49
1:9:46:TYR:CE2	1:9:109:ARG:HG2	2.47	0.49
1:9:115:ILE:HG22	1:9:119:ARG:NE	2.27	0.49
1:A:26:LEU:HD23	1:A:52:THR:HB	1.94	0.49
1:A:278:TYR:CD2	1:A:367:MET:HE3	2.47	0.49
1:B:58:GLN:HB2	1:B:62:LYS:HD3	1.93	0.49
1:D:74:LEU:HD11	1:D:132:LEU:HA	1.94	0.49
1:D:232:LYS:HG2	1:D:247:SER:HA	1.93	0.49
1:I:46:TYR:HE2	1:I:109:ARG:HG2	1.76	0.49
1:I:73:TRP:O	1:I:77:ARG:HG2	2.12	0.49
1:I:81:LYS:HE3	1:I:131:ASP:H	1.76	0.49
1:J:278:TYR:CD2	1:J:367:MET:HE3	2.47	0.49
1:K:209:HIS:HB3	1:L:227:PHE:HD1	1.76	0.49
1:L:46:TYR:HE2	1:L:109:ARG:HG2	1.77	0.49
1:L:205:GLU:HG3	1:L:209:HIS:CE1	2.47	0.49
1:M:50:THR:HB	1:M:62:LYS:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:50:THR:HB	1:Q:62:LYS:H	1.77	0.49
1:T:26:LEU:HD23	1:T:52:THR:HB	1.94	0.49
1:T:46:TYR:CE2	1:T:109:ARG:HG2	2.47	0.49
1:X:205:GLU:HG3	1:X:209:HIS:CE1	2.47	0.49
1:Y:115:ILE:HG22	1:Y:119:ARG:NE	2.27	0.49
1:a:205:GLU:HG3	1:a:209:HIS:CE1	2.47	0.49
1:d:26:LEU:HD23	1:d:52:THR:HB	1.94	0.49
1:g:26:LEU:HD23	1:g:52:THR:HB	1.94	0.49
1:k:278:TYR:CD2	1:k:367:MET:HE3	2.47	0.49
1:l:46:TYR:CE2	1:l:109:ARG:HG2	2.47	0.49
1:n:82:TYR:HB3	1:n:85:ILE:HD12	1.92	0.49
1:o:205:GLU:HG3	1:o:209:HIS:CE1	2.47	0.49
1:q:73:TRP:O	1:q:77:ARG:HG2	2.12	0.49
1:r:115:ILE:HG22	1:r:119:ARG:NE	2.27	0.49
1:t:50:THR:HB	1:t:62:LYS:H	1.77	0.49
1:0:26:LEU:HD23	1:0:52:THR:HB	1.94	0.49
1:4:205:GLU:HG3	1:4:209:HIS:CE1	2.47	0.49
1:5:46:TYR:HE2	1:5:109:ARG:HG2	1.76	0.49
1:5:81:LYS:HE3	1:5:131:ASP:H	1.76	0.49
1:7:50:THR:HB	1:7:62:LYS:H	1.77	0.49
1:9:26:LEU:HD23	1:9:52:THR:HB	1.94	0.49
1:A:46:TYR:CE2	1:A:109:ARG:HG2	2.47	0.49
1:AB:115:ILE:HG22	1:AB:119:ARG:NE	2.27	0.49
1:I:368:GLY:HA3	1:J:400:TYR:CG	2.47	0.49
1:L:81:LYS:HE3	1:L:131:ASP:H	1.76	0.49
1:M:26:LEU:HD23	1:M:52:THR:HB	1.94	0.49
1:N:115:ILE:HG22	1:N:119:ARG:NE	2.27	0.49
1:N:276:LYS:HG3	1:N:280:ARG:HH11	1.76	0.49
1:O:115:ILE:HG22	1:O:119:ARG:NE	2.27	0.49
1:Q:276:LYS:HG3	1:Q:280:ARG:HH11	1.76	0.49
1:R:74:LEU:HD11	1:R:132:LEU:HA	1.94	0.49
1:S:58:GLN:HB2	1:S:62:LYS:HD3	1.93	0.49
1:T:50:THR:HB	1:T:62:LYS:H	1.77	0.49
1:U:58:GLN:HB2	1:U:62:LYS:HD3	1.93	0.49
1:V:46:TYR:HE2	1:V:109:ARG:HG2	1.77	0.49
1:V:205:GLU:HG3	1:V:209:HIS:CE1	2.47	0.49
1:X:50:THR:HB	1:X:62:LYS:H	1.77	0.49
1:Y:276:LYS:HG3	1:Y:280:ARG:HH11	1.76	0.49
1:b:50:THR:HB	1:b:62:LYS:H	1.77	0.49
1:g:73:TRP:O	1:g:77:ARG:HG2	2.12	0.49
1:g:232:LYS:HG2	1:g:247:SER:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:73:TRP:O	1:h:77:ARG:HG2	2.12	0.49
1:j:232:LYS:HG2	1:j:247:SER:HA	1.93	0.49
1:p:46:TYR:CE2	1:p:109:ARG:HG2	2.47	0.49
1:p:73:TRP:O	1:p:77:ARG:HG2	2.12	0.49
1:p:276:LYS:HG3	1:p:280:ARG:HH11	1.76	0.49
1:s:74:LEU:HD11	1:s:132:LEU:HA	1.94	0.49
1:u:205:GLU:HG3	1:u:209:HIS:CE1	2.47	0.49
1:w:57:TYR:HA	1:w:137:GLN:HE22	1.76	0.49
1:x:57:TYR:HA	1:x:137:GLN:HE22	1.76	0.49
1:y:205:GLU:HG3	1:y:209:HIS:CE1	2.47	0.49
1:y:232:LYS:HG2	1:y:247:SER:HA	1.93	0.49
1:3:276:LYS:HG3	1:3:280:ARG:HH11	1.76	0.49
1:5:115:ILE:HG22	1:5:119:ARG:NE	2.27	0.49
1:6:26:LEU:HD23	1:6:52:THR:HB	1.94	0.49
1:8:73:TRP:O	1:8:77:ARG:HG2	2.12	0.49
1:A:73:TRP:O	1:A:77:ARG:HG2	2.12	0.49
1:A:115:ILE:HG22	1:A:119:ARG:NE	2.27	0.49
1:AA:73:TRP:O	1:AA:77:ARG:HG2	2.12	0.49
1:B:74:LEU:HD11	1:B:132:LEU:HA	1.94	0.49
1:B:115:ILE:HG22	1:B:119:ARG:NE	2.27	0.49
1:C:26:LEU:HD23	1:C:52:THR:HB	1.94	0.49
1:N:26:LEU:HD23	1:N:52:THR:HB	1.94	0.49
1:Q:26:LEU:HD23	1:Q:52:THR:HB	1.94	0.49
1:R:26:LEU:HD23	1:R:52:THR:HB	1.94	0.49
1:T:73:TRP:O	1:T:77:ARG:HG2	2.12	0.49
1:V:115:ILE:HG22	1:V:119:ARG:NE	2.27	0.49
1:X:74:LEU:HD11	1:X:132:LEU:HA	1.94	0.49
1:X:115:ILE:HG22	1:X:119:ARG:NE	2.27	0.49
1:Y:74:LEU:HD11	1:Y:132:LEU:HA	1.94	0.49
1:c:57:TYR:HA	1:c:137:GLN:HE22	1.76	0.49
1:e:205:GLU:HG3	1:e:209:HIS:CE1	2.47	0.49
1:i:50:THR:HB	1:i:62:LYS:H	1.77	0.49
1:i:58:GLN:HB2	1:i:62:LYS:HD3	1.93	0.49
1:j:115:ILE:HG22	1:j:119:ARG:NE	2.27	0.49
1:k:46:TYR:HE2	1:k:109:ARG:HG2	1.76	0.49
1:l:50:THR:HB	1:l:62:LYS:H	1.77	0.49
1:m:81:LYS:HE3	1:m:131:ASP:H	1.76	0.49
1:n:276:LYS:HG3	1:n:280:ARG:HH11	1.76	0.49
1:o:74:LEU:HD11	1:o:132:LEU:HA	1.93	0.49
1:o:278:TYR:CD2	1:o:367:MET:HE3	2.47	0.49
1:p:232:LYS:HG2	1:p:247:SER:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:s:205:GLU:HG3	1:s:209:HIS:CE1	2.47	0.49
1:v:205:GLU:HG3	1:v:209:HIS:CE1	2.47	0.49
1:z:46:TYR:CE2	1:z:109:ARG:HG2	2.47	0.49
1:z:73:TRP:O	1:z:77:ARG:HG2	2.12	0.49
1:3:50:THR:HB	1:3:62:LYS:H	1.77	0.49
1:6:205:GLU:HG3	1:6:209:HIS:CE1	2.47	0.49
1:7:26:LEU:HD23	1:7:52:THR:HB	1.94	0.49
1:7:232:LYS:HG2	1:7:247:SER:HA	1.93	0.49
1:8:26:LEU:HD23	1:8:52:THR:HB	1.94	0.49
1:A:58:GLN:HB2	1:A:62:LYS:HD3	1.93	0.49
1:AA:46:TYR:CE2	1:AA:109:ARG:HG2	2.47	0.49
1:AB:46:TYR:CE2	1:AB:109:ARG:HG2	2.47	0.49
1:E:278:TYR:CD2	1:E:367:MET:HE3	2.47	0.49
1:F:58:GLN:HB2	1:F:62:LYS:HD3	1.93	0.49
1:F:73:TRP:O	1:F:77:ARG:HG2	2.12	0.49
1:F:74:LEU:HD11	1:F:132:LEU:HA	1.94	0.49
1:H:46:TYR:CE2	1:H:109:ARG:HG2	2.47	0.49
1:H:392:LEU:HA	1:H:395:LYS:HZ3	1.76	0.49
1:K:57:TYR:HA	1:K:137:GLN:HE22	1.76	0.49
1:L:46:TYR:CE2	1:L:109:ARG:HG2	2.47	0.49
1:L:232:LYS:HG2	1:L:247:SER:HA	1.93	0.49
1:N:46:TYR:CE2	1:N:109:ARG:HG2	2.47	0.49
1:O:46:TYR:CE2	1:O:109:ARG:HG2	2.47	0.49
1:O:205:GLU:HG3	1:O:209:HIS:CE1	2.47	0.49
1:Q:74:LEU:HD11	1:Q:132:LEU:HA	1.94	0.49
1:S:232:LYS:HG2	1:S:247:SER:HA	1.93	0.49
1:V:26:LEU:HD23	1:V:52:THR:HB	1.94	0.49
1:W:74:LEU:HD11	1:W:132:LEU:HA	1.94	0.49
1:Z:73:TRP:O	1:Z:77:ARG:HG2	2.12	0.49
1:Z:205:GLU:HG3	1:Z:209:HIS:CE1	2.47	0.49
1:c:81:LYS:HE3	1:c:131:ASP:H	1.76	0.49
1:f:115:ILE:HG22	1:f:119:ARG:NE	2.27	0.49
1:h:50:THR:HB	1:h:62:LYS:H	1.77	0.49
1:j:26:LEU:HD23	1:j:52:THR:HB	1.94	0.49
1:k:58:GLN:HB2	1:k:62:LYS:HD3	1.93	0.49
1:l:81:LYS:HE3	1:l:131:ASP:H	1.76	0.49
1:n:46:TYR:CE2	1:n:109:ARG:HG2	2.47	0.49
1:p:46:TYR:HE2	1:p:109:ARG:HG2	1.76	0.49
1:p:81:LYS:HE3	1:p:131:ASP:H	1.76	0.49
1:q:278:TYR:CD2	1:q:367:MET:HE3	2.47	0.49
1:s:73:TRP:O	1:s:77:ARG:HG2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:73:TRP:O	1:t:77:ARG:HG2	2.12	0.49
1:w:115:ILE:HG22	1:w:119:ARG:NE	2.27	0.49
1:y:276:LYS:HG3	1:y:280:ARG:HH11	1.76	0.49
1:z:205:GLU:HG3	1:z:209:HIS:CE1	2.47	0.49
1:1:46:TYR:HE2	1:1:109:ARG:HG2	1.77	0.49
1:1:50:THR:HB	1:1:62:LYS:H	1.77	0.49
1:1:232:LYS:HG2	1:1:247:SER:HA	1.93	0.49
1:5:50:THR:HB	1:5:62:LYS:H	1.77	0.49
1:5:74:LEU:HD11	1:5:132:LEU:HA	1.94	0.49
1:5:205:GLU:HG3	1:5:209:HIS:CE1	2.47	0.49
1:7:276:LYS:HG3	1:7:280:ARG:HH11	1.76	0.49
1:A:74:LEU:HD11	1:A:132:LEU:HA	1.93	0.49
1:A:81:LYS:HE3	1:A:131:ASP:H	1.76	0.49
1:AA:81:LYS:HE3	1:AA:131:ASP:H	1.77	0.49
1:C:46:TYR:CE2	1:C:109:ARG:HG2	2.47	0.49
1:C:115:ILE:HG22	1:C:119:ARG:NE	2.27	0.49
1:E:46:TYR:CE2	1:E:109:ARG:HG2	2.47	0.49
1:I:26:LEU:HD23	1:I:52:THR:HB	1.94	0.49
1:O:74:LEU:HD11	1:O:132:LEU:HA	1.94	0.49
1:P:115:ILE:HG22	1:P:119:ARG:NE	2.27	0.49
1:Z:50:THR:HB	1:Z:62:LYS:H	1.77	0.49
1:Z:57:TYR:HA	1:Z:137:GLN:HE22	1.76	0.49
1:a:46:TYR:CE2	1:a:109:ARG:HG2	2.47	0.49
1:a:81:LYS:HE3	1:a:131:ASP:H	1.76	0.49
1:f:81:LYS:HE3	1:f:131:ASP:H	1.76	0.49
1:f:389:TRP:CB	1:g:379:ALA:HB2	2.43	0.49
1:g:46:TYR:CE2	1:g:109:ARG:HG2	2.47	0.49
1:g:50:THR:HB	1:g:62:LYS:H	1.77	0.49
1:h:74:LEU:HD11	1:h:132:LEU:HA	1.94	0.49
1:j:46:TYR:CE2	1:j:109:ARG:HG2	2.47	0.49
1:m:46:TYR:CE2	1:m:109:ARG:HG2	2.47	0.49
1:m:57:TYR:HA	1:m:137:GLN:HE22	1.76	0.49
1:n:81:LYS:HE3	1:n:131:ASP:H	1.77	0.49
1:o:329:ILE:HD12	1:o:332:ARG:HH12	1.78	0.49
1:q:58:GLN:HB2	1:q:62:LYS:HD3	1.93	0.49
1:r:26:LEU:HD23	1:r:52:THR:HB	1.94	0.49
1:r:58:GLN:HB2	1:r:62:LYS:HD3	1.93	0.49
1:t:278:TYR:CD2	1:t:367:MET:HE3	2.47	0.49
1:u:46:TYR:CE2	1:u:109:ARG:HG2	2.47	0.49
1:v:46:TYR:CE2	1:v:109:ARG:HG2	2.47	0.49
1:x:115:ILE:HG22	1:x:119:ARG:NE	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:205:GLU:HG3	1:x:209:HIS:CE1	2.47	0.49
1:1:276:LYS:HG3	1:1:280:ARG:HH11	1.76	0.49
1:3:205:GLU:HG3	1:3:209:HIS:CE1	2.47	0.49
1:7:74:LEU:HD11	1:7:132:LEU:HA	1.94	0.49
1:8:329:ILE:HD12	1:8:332:ARG:HH12	1.78	0.49
1:9:205:GLU:HG3	1:9:209:HIS:CE1	2.47	0.49
1:AA:278:TYR:CD2	1:AA:367:MET:HE3	2.47	0.49
1:AB:81:LYS:HE3	1:AB:131:ASP:H	1.76	0.49
1:AB:205:GLU:HG3	1:AB:209:HIS:CE1	2.47	0.49
1:D:278:TYR:CD2	1:D:367:MET:HE3	2.47	0.49
1:G:81:LYS:HE3	1:G:131:ASP:H	1.76	0.49
1:H:58:GLN:HB2	1:H:62:LYS:HD3	1.93	0.49
1:I:50:THR:HB	1:I:62:LYS:H	1.77	0.49
1:M:205:GLU:HG3	1:M:209:HIS:CE1	2.47	0.49
1:R:329:ILE:HD12	1:R:332:ARG:HH12	1.78	0.49
1:U:74:LEU:HD11	1:U:132:LEU:HA	1.94	0.49
1:Z:58:GLN:HB2	1:Z:62:LYS:HD3	1.93	0.49
1:a:278:TYR:CD2	1:a:367:MET:HE3	2.47	0.49
1:b:46:TYR:CE2	1:b:109:ARG:HG2	2.47	0.49
1:i:329:ILE:HD12	1:i:332:ARG:HH12	1.78	0.49
1:m:26:LEU:HD23	1:m:52:THR:HB	1.94	0.49
1:m:329:ILE:HD12	1:m:332:ARG:HH12	1.78	0.49
1:p:209:HIS:HB3	1:q:227:PHE:HD1	1.77	0.49
1:v:392:LEU:HA	1:v:395:LYS:HZ3	1.77	0.49
1:w:50:THR:HB	1:w:62:LYS:H	1.77	0.49
1:y:50:THR:HB	1:y:62:LYS:H	1.77	0.49
1:z:115:ILE:HG22	1:z:119:ARG:NE	2.27	0.49
1:2:26:LEU:HD23	1:2:52:THR:HB	1.94	0.49
1:2:46:TYR:CE2	1:2:109:ARG:HG2	2.47	0.49
1:2:58:GLN:HB2	1:2:62:LYS:HD3	1.93	0.49
1:2:205:GLU:HG3	1:2:209:HIS:CE1	2.47	0.49
1:2:329:ILE:HD12	1:2:332:ARG:HH12	1.78	0.49
1:7:46:TYR:HE2	1:7:109:ARG:HG2	1.76	0.49
1:9:369:VAL:HG13	1:9:373:GLN:NE2	2.28	0.49
1:A:389:TRP:CB	1:B:379:ALA:HB2	2.41	0.49
1:AA:205:GLU:HG3	1:AA:209:HIS:CE1	2.47	0.49
1:AB:278:TYR:CD2	1:AB:367:MET:HE3	2.47	0.49
1:B:26:LEU:HD23	1:B:52:THR:HB	1.94	0.49
1:C:58:GLN:HB2	1:C:62:LYS:HD3	1.93	0.49
1:G:115:ILE:HG22	1:G:119:ARG:NE	2.27	0.49
1:G:278:TYR:CD2	1:G:367:MET:HE3	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:26:LEU:HD23	1:H:52:THR:HB	1.94	0.49
1:O:81:LYS:HE3	1:O:131:ASP:H	1.76	0.49
1:R:369:VAL:HG13	1:R:373:GLN:NE2	2.28	0.49
1:U:392:LEU:HA	1:U:395:LYS:HZ3	1.77	0.49
1:V:50:THR:HB	1:V:62:LYS:H	1.77	0.49
1:c:379:ALA:HB2	1:d:389:TRP:HB3	1.95	0.49
1:c:389:TRP:HB3	1:d:379:ALA:HB2	1.94	0.49
1:e:46:TYR:CE2	1:e:109:ARG:HG2	2.47	0.49
1:f:278:TYR:CD2	1:f:367:MET:HE3	2.47	0.49
1:f:392:LEU:HA	1:f:395:LYS:HZ3	1.78	0.49
1:h:26:LEU:HD23	1:h:52:THR:HB	1.94	0.49
1:h:58:GLN:HB2	1:h:62:LYS:HD3	1.93	0.49
1:i:26:LEU:HD23	1:i:52:THR:HB	1.94	0.49
1:l:276:LYS:HG3	1:l:280:ARG:HH11	1.76	0.49
1:m:276:LYS:HG3	1:m:280:ARG:HH11	1.76	0.49
1:o:50:THR:HB	1:o:62:LYS:H	1.77	0.49
1:o:276:LYS:HG3	1:o:280:ARG:HH11	1.76	0.49
1:q:50:THR:HB	1:q:62:LYS:H	1.77	0.49
1:r:46:TYR:CE2	1:r:109:ARG:HG2	2.47	0.49
1:z:26:LEU:HD23	1:z:52:THR:HB	1.94	0.49
1:4:26:LEU:HD23	1:4:52:THR:HB	1.94	0.49
1:4:46:TYR:CE2	1:4:109:ARG:HG2	2.47	0.49
1:4:81:LYS:HZ1	1:4:129:SER:HB3	1.78	0.49
1:6:329:ILE:HD12	1:6:332:ARG:HH12	1.78	0.49
1:AA:115:ILE:HG22	1:AA:119:ARG:NE	2.27	0.49
1:C:74:LEU:HD11	1:C:132:LEU:HA	1.94	0.49
1:K:50:THR:HB	1:K:62:LYS:H	1.77	0.49
1:O:26:LEU:HD23	1:O:52:THR:HB	1.94	0.49
1:P:46:TYR:CE2	1:P:109:ARG:HG2	2.47	0.49
1:T:369:VAL:HG13	1:T:373:GLN:NE2	2.28	0.49
1:U:26:LEU:HD23	1:U:52:THR:HB	1.94	0.49
1:V:74:LEU:HD11	1:V:132:LEU:HA	1.94	0.49
1:V:81:LYS:HE3	1:V:131:ASP:H	1.77	0.49
1:V:278:TYR:CD2	1:V:367:MET:HE3	2.47	0.49
1:V:369:VAL:HG13	1:V:373:GLN:NE2	2.28	0.49
1:W:26:LEU:HD23	1:W:52:THR:HB	1.94	0.49
1:W:73:TRP:O	1:W:77:ARG:HG2	2.12	0.49
1:X:46:TYR:CE2	1:X:109:ARG:HG2	2.47	0.49
1:Y:232:LYS:HG2	1:Y:247:SER:HA	1.93	0.49
1:b:369:VAL:HG13	1:b:373:GLN:NE2	2.28	0.49
1:d:329:ILE:HD12	1:d:332:ARG:HH12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:46:TYR:CE2	1:f:109:ARG:HG2	2.47	0.49
1:g:46:TYR:HE2	1:g:109:ARG:HG2	1.77	0.49
1:j:276:LYS:HG3	1:j:280:ARG:HH11	1.76	0.49
1:t:46:TYR:CE2	1:t:109:ARG:HG2	2.47	0.49
1:u:26:LEU:HD23	1:u:52:THR:HB	1.94	0.49
1:y:209:HIS:HB3	1:z:227:PHE:HD1	1.76	0.49
1:z:46:TYR:HE2	1:z:109:ARG:HG2	1.77	0.49
1:0:58:GLN:HB2	1:0:62:LYS:HD3	1.93	0.49
1:1:74:LEU:HD11	1:1:132:LEU:HA	1.94	0.49
1:AA:369:VAL:HG13	1:AA:373:GLN:NE2	2.28	0.49
1:D:50:THR:HB	1:D:62:LYS:H	1.77	0.49
1:D:73:TRP:O	1:D:77:ARG:HG2	2.12	0.49
1:I:237:CYS:SG	1:J:198:GLU:OE1	2.67	0.49
1:J:26:LEU:HD23	1:J:52:THR:HB	1.94	0.49
1:M:58:GLN:HB2	1:M:62:LYS:HD3	1.93	0.49
1:N:369:VAL:HG13	1:N:373:GLN:NE2	2.28	0.49
1:P:392:LEU:HA	1:P:395:LYS:HZ3	1.78	0.49
1:R:58:GLN:HB2	1:R:62:LYS:HD3	1.93	0.49
1:S:46:TYR:HE2	1:S:109:ARG:HG2	1.77	0.49
1:W:209:HIS:HB3	1:X:227:PHE:HD1	1.77	0.49
1:X:26:LEU:HD23	1:X:52:THR:HB	1.94	0.49
1:X:369:VAL:HG13	1:X:373:GLN:NE2	2.28	0.49
1:Y:46:TYR:HE2	1:Y:109:ARG:HG2	1.76	0.49
1:Z:46:TYR:CE2	1:Z:109:ARG:HG2	2.47	0.49
1:Z:329:ILE:HD12	1:Z:332:ARG:HH12	1.78	0.49
1:a:26:LEU:HD23	1:a:52:THR:HB	1.94	0.49
1:c:115:ILE:HG22	1:c:119:ARG:NE	2.27	0.49
1:l:329:ILE:HD12	1:l:332:ARG:HH12	1.78	0.49
1:m:50:THR:HB	1:m:62:LYS:H	1.77	0.49
1:q:329:ILE:HD12	1:q:332:ARG:HH12	1.78	0.49
1:s:278:TYR:CD2	1:s:367:MET:HE3	2.47	0.49
1:x:46:TYR:CE2	1:x:109:ARG:HG2	2.47	0.49
1:z:74:LEU:HD11	1:z:132:LEU:HA	1.93	0.49
1:5:26:LEU:HD23	1:5:52:THR:HB	1.94	0.48
1:7:329:ILE:HD12	1:7:332:ARG:HH12	1.78	0.48
1:A:372:HIS:NE2	1:B:397:GLU:OE2	2.43	0.48
1:AB:73:TRP:O	1:AB:77:ARG:HG2	2.12	0.48
1:G:46:TYR:CE2	1:G:109:ARG:HG2	2.47	0.48
1:I:74:LEU:HD11	1:I:132:LEU:HA	1.94	0.48
1:P:26:LEU:HD23	1:P:52:THR:HB	1.94	0.48
1:P:369:VAL:HG13	1:P:373:GLN:NE2	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:73:TRP:O	1:R:77:ARG:HG2	2.12	0.48
1:R:74:LEU:O	1:R:78:LEU:HG	2.14	0.48
1:S:74:LEU:HD11	1:S:132:LEU:HA	1.94	0.48
1:b:115:ILE:HG22	1:b:119:ARG:NE	2.27	0.48
1:c:58:GLN:HB2	1:c:62:LYS:HD3	1.93	0.48
1:d:369:VAL:HG13	1:d:373:GLN:NE2	2.28	0.48
1:n:73:TRP:O	1:n:77:ARG:HG2	2.12	0.48
1:q:26:LEU:HD23	1:q:52:THR:HB	1.94	0.48
1:r:369:VAL:HG13	1:r:373:GLN:NE2	2.28	0.48
1:t:369:VAL:HG13	1:t:373:GLN:NE2	2.28	0.48
1:y:46:TYR:CE2	1:y:109:ARG:HG2	2.47	0.48
1:y:369:VAL:HG13	1:y:373:GLN:NE2	2.28	0.48
1:0:369:VAL:HG13	1:0:373:GLN:NE2	2.28	0.48
1:5:74:LEU:O	1:5:78:LEU:HG	2.13	0.48
1:6:74:LEU:HD11	1:6:132:LEU:HA	1.94	0.48
1:8:369:VAL:HG13	1:8:373:GLN:NE2	2.28	0.48
1:9:74:LEU:HD11	1:9:132:LEU:HA	1.94	0.48
1:AB:369:VAL:HG13	1:AB:373:GLN:NE2	2.28	0.48
1:C:369:VAL:HG13	1:C:373:GLN:NE2	2.28	0.48
1:F:329:ILE:HD12	1:F:332:ARG:HH12	1.78	0.48
1:J:119:ARG:HA	1:J:122:LEU:HD12	1.96	0.48
1:N:50:THR:HB	1:N:62:LYS:H	1.77	0.48
1:Q:232:LYS:HG2	1:Q:247:SER:HA	1.93	0.48
1:V:329:ILE:HD12	1:V:332:ARG:HH12	1.78	0.48
1:W:119:ARG:HA	1:W:122:LEU:HD12	1.96	0.48
1:X:278:TYR:CD2	1:X:367:MET:HE3	2.47	0.48
1:Y:50:THR:HB	1:Y:62:LYS:H	1.77	0.48
1:Z:74:LEU:O	1:Z:78:LEU:HG	2.13	0.48
1:c:74:LEU:HD11	1:c:132:LEU:HA	1.94	0.48
1:c:74:LEU:O	1:c:78:LEU:HG	2.14	0.48
1:c:369:VAL:HG13	1:c:373:GLN:NE2	2.28	0.48
1:d:50:THR:HB	1:d:62:LYS:H	1.77	0.48
1:d:271:PHE:HA	1:d:370:ALA:HB1	1.96	0.48
1:e:369:VAL:HG13	1:e:373:GLN:NE2	2.28	0.48
1:j:329:ILE:HD12	1:j:332:ARG:HH12	1.78	0.48
1:k:74:LEU:HD11	1:k:132:LEU:HA	1.94	0.48
1:p:74:LEU:O	1:p:78:LEU:HG	2.13	0.48
1:p:369:VAL:HG13	1:p:373:GLN:NE2	2.28	0.48
1:v:26:LEU:HD23	1:v:52:THR:HB	1.94	0.48
1:v:50:THR:HB	1:v:62:LYS:H	1.77	0.48
1:x:26:LEU:HD23	1:x:52:THR:HB	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:50:THR:HB	1:4:62:LYS:H	1.77	0.48
1:AA:26:LEU:HD23	1:AA:52:THR:HB	1.94	0.48
1:B:369:VAL:HG13	1:B:373:GLN:NE2	2.28	0.48
1:D:369:VAL:HG13	1:D:373:GLN:NE2	2.28	0.48
1:G:329:ILE:HD12	1:G:332:ARG:HH12	1.78	0.48
1:G:369:VAL:HG13	1:G:373:GLN:NE2	2.28	0.48
1:G:392:LEU:HA	1:G:395:LYS:HZ3	1.78	0.48
1:J:50:THR:HB	1:J:62:LYS:H	1.77	0.48
1:K:329:ILE:HD12	1:K:332:ARG:HH12	1.78	0.48
1:N:271:PHE:HA	1:N:370:ALA:HB1	1.96	0.48
1:Q:329:ILE:HD12	1:Q:332:ARG:HH12	1.78	0.48
1:T:74:LEU:O	1:T:78:LEU:HG	2.14	0.48
1:T:329:ILE:HD12	1:T:332:ARG:HH12	1.78	0.48
1:a:73:TRP:O	1:a:77:ARG:HG2	2.12	0.48
1:b:26:LEU:HD23	1:b:52:THR:HB	1.94	0.48
1:i:74:LEU:O	1:i:78:LEU:HG	2.14	0.48
1:j:369:VAL:HG13	1:j:373:GLN:NE2	2.28	0.48
1:l:369:VAL:HG13	1:l:373:GLN:NE2	2.28	0.48
1:q:46:TYR:CE2	1:q:109:ARG:HG2	2.47	0.48
1:s:50:THR:HB	1:s:62:LYS:H	1.77	0.48
1:s:329:ILE:HD12	1:s:332:ARG:HH12	1.78	0.48
1:0:119:ARG:HA	1:0:122:LEU:HD12	1.96	0.48
1:1:74:LEU:O	1:1:78:LEU:HG	2.14	0.48
1:2:74:LEU:O	1:2:78:LEU:HG	2.14	0.48
1:2:271:PHE:HA	1:2:370:ALA:HB1	1.96	0.48
1:5:119:ARG:HA	1:5:122:LEU:HD12	1.96	0.48
1:5:369:VAL:HG13	1:5:373:GLN:NE2	2.28	0.48
1:6:369:VAL:HG13	1:6:373:GLN:NE2	2.28	0.48
1:7:119:ARG:HA	1:7:122:LEU:HD12	1.96	0.48
1:8:74:LEU:O	1:8:78:LEU:HG	2.13	0.48
1:A:185:THR:HG1	1:X:320:ARG:HG3	1.76	0.48
1:C:74:LEU:O	1:C:78:LEU:HG	2.13	0.48
1:F:50:THR:HB	1:F:62:LYS:H	1.77	0.48
1:H:369:VAL:HG13	1:H:373:GLN:NE2	2.28	0.48
1:M:74:LEU:HD11	1:M:132:LEU:HA	1.94	0.48
1:P:329:ILE:HD12	1:P:332:ARG:HH12	1.78	0.48
1:Q:46:TYR:HE2	1:Q:109:ARG:HG2	1.77	0.48
1:V:74:LEU:O	1:V:78:LEU:HG	2.14	0.48
1:X:329:ILE:HD12	1:X:332:ARG:HH12	1.78	0.48
1:Z:26:LEU:HD23	1:Z:52:THR:HB	1.94	0.48
1:c:300:CYS:SG	1:o:318:LEU:HD21	2.53	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:329:ILE:HD12	1:e:332:ARG:HH12	1.78	0.48
1:g:369:VAL:HG13	1:g:373:GLN:NE2	2.28	0.48
1:n:74:LEU:O	1:n:78:LEU:HG	2.13	0.48
1:n:392:LEU:HA	1:n:395:LYS:HZ3	1.77	0.48
1:4:271:PHE:HA	1:4:370:ALA:HB1	1.96	0.48
1:6:271:PHE:HA	1:6:370:ALA:HB1	1.96	0.48
1:7:369:VAL:HG13	1:7:373:GLN:NE2	2.28	0.48
1:A:390:ARG:NH1	1:B:383:ASN:HD21	2.11	0.48
1:AB:271:PHE:HA	1:AB:370:ALA:HB1	1.96	0.48
1:C:119:ARG:HA	1:C:122:LEU:HD12	1.96	0.48
1:D:46:TYR:CE2	1:D:109:ARG:HG2	2.47	0.48
1:D:329:ILE:HD12	1:D:332:ARG:HH12	1.78	0.48
1:E:119:ARG:HA	1:E:122:LEU:HD12	1.96	0.48
1:F:251:THR:HG23	1:e:63:ILE:HD13	1.95	0.48
1:K:74:LEU:O	1:K:78:LEU:HG	2.13	0.48
1:U:119:ARG:HA	1:U:122:LEU:HD12	1.96	0.48
1:U:369:VAL:HG13	1:U:373:GLN:NE2	2.28	0.48
1:b:74:LEU:O	1:b:78:LEU:HG	2.13	0.48
1:i:271:PHE:HA	1:i:370:ALA:HB1	1.95	0.48
1:j:50:THR:HB	1:j:62:LYS:H	1.77	0.48
1:j:74:LEU:O	1:j:78:LEU:HG	2.13	0.48
1:k:74:LEU:O	1:k:78:LEU:HG	2.13	0.48
1:l:74:LEU:O	1:l:78:LEU:HG	2.14	0.48
1:l:271:PHE:HA	1:l:370:ALA:HB1	1.96	0.48
1:n:119:ARG:HA	1:n:122:LEU:HD12	1.96	0.48
1:o:369:VAL:HG13	1:o:373:GLN:NE2	2.28	0.48
1:p:26:LEU:HD23	1:p:52:THR:HB	1.94	0.48
1:r:74:LEU:HD11	1:r:132:LEU:HA	1.94	0.48
1:r:119:ARG:HA	1:r:122:LEU:HD12	1.96	0.48
1:s:46:TYR:CE2	1:s:109:ARG:HG2	2.47	0.48
1:w:46:TYR:CE2	1:w:109:ARG:HG2	2.47	0.48
1:x:329:ILE:HD12	1:x:332:ARG:HH12	1.78	0.48
1:z:50:THR:HB	1:z:62:LYS:H	1.77	0.48
1:3:74:LEU:HD11	1:3:132:LEU:HA	1.94	0.48
1:3:74:LEU:O	1:3:78:LEU:HG	2.14	0.48
1:4:369:VAL:HG13	1:4:373:GLN:NE2	2.28	0.48
1:5:329:ILE:HD12	1:5:332:ARG:HH12	1.78	0.48
1:7:74:LEU:O	1:7:78:LEU:HG	2.13	0.48
1:8:271:PHE:HA	1:8:370:ALA:HB1	1.96	0.48
1:A:74:LEU:O	1:A:78:LEU:HG	2.14	0.48
1:AB:26:LEU:HD23	1:AB:52:THR:HB	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:50:THR:HB	1:B:62:LYS:H	1.77	0.48
1:D:26:LEU:HD23	1:D:52:THR:HB	1.94	0.48
1:F:369:VAL:HG13	1:F:373:GLN:NE2	2.28	0.48
1:H:50:THR:HB	1:H:62:LYS:H	1.77	0.48
1:L:26:LEU:HD23	1:L:52:THR:HB	1.94	0.48
1:Q:119:ARG:HA	1:Q:122:LEU:HD12	1.96	0.48
1:S:329:ILE:HD12	1:S:332:ARG:HH12	1.78	0.48
1:Y:74:LEU:O	1:Y:78:LEU:HG	2.13	0.48
1:Y:119:ARG:HA	1:Y:122:LEU:HD12	1.96	0.48
1:Z:271:PHE:HA	1:Z:370:ALA:HB1	1.96	0.48
1:a:369:VAL:HG13	1:a:373:GLN:NE2	2.28	0.48
1:f:329:ILE:HD12	1:f:332:ARG:HH12	1.78	0.48
1:f:369:VAL:HG13	1:f:373:GLN:NE2	2.28	0.48
1:k:371:PHE:HE1	1:l:231:VAL:HG22	1.78	0.48
1:q:369:VAL:HG13	1:q:373:GLN:NE2	2.28	0.48
1:r:74:LEU:O	1:r:78:LEU:HG	2.13	0.48
1:s:26:LEU:HD23	1:s:52:THR:HB	1.94	0.48
1:t:329:ILE:HD12	1:t:332:ARG:HH12	1.78	0.48
1:u:50:THR:HB	1:u:62:LYS:H	1.77	0.48
1:v:119:ARG:HA	1:v:122:LEU:HD12	1.96	0.48
1:x:74:LEU:O	1:x:78:LEU:HG	2.13	0.48
1:x:271:PHE:HA	1:x:370:ALA:HB1	1.96	0.48
1:7:230:ALA:HB2	1:8:209:HIS:CE1	2.49	0.48
1:AA:318:LEU:HD21	1:AB:300:CYS:CB	2.35	0.48
1:B:271:PHE:HA	1:B:370:ALA:HB1	1.96	0.48
1:C:81:LYS:NZ	1:C:129:SER:HB3	2.29	0.48
1:D:119:ARG:HA	1:D:122:LEU:HD12	1.96	0.48
1:H:74:LEU:O	1:H:78:LEU:HG	2.14	0.48
1:J:369:VAL:HG13	1:J:373:GLN:NE2	2.28	0.48
1:R:271:PHE:HA	1:R:370:ALA:HB1	1.96	0.48
1:c:119:ARG:HA	1:c:122:LEU:HD12	1.96	0.48
1:e:26:LEU:HD23	1:e:52:THR:HB	1.94	0.48
1:f:26:LEU:HD23	1:f:52:THR:HB	1.94	0.48
1:g:74:LEU:O	1:g:78:LEU:HG	2.14	0.48
1:h:74:LEU:O	1:h:78:LEU:HG	2.13	0.48
1:j:271:PHE:HA	1:j:370:ALA:HB1	1.96	0.48
1:w:26:LEU:HD23	1:w:52:THR:HB	1.94	0.48
1:w:74:LEU:O	1:w:78:LEU:HG	2.14	0.48
1:w:329:ILE:HD12	1:w:332:ARG:HH12	1.78	0.48
1:w:369:VAL:HG13	1:w:373:GLN:NE2	2.28	0.48
1:x:50:THR:HB	1:x:62:LYS:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:26:LEU:HD23	1:y:52:THR:HB	1.94	0.48
1:4:74:LEU:O	1:4:78:LEU:HG	2.13	0.48
1:7:271:PHE:HA	1:7:370:ALA:HB1	1.96	0.48
1:A:369:VAL:HG13	1:A:373:GLN:NE2	2.28	0.48
1:AA:74:LEU:O	1:AA:78:LEU:HG	2.13	0.48
1:B:329:ILE:HD12	1:B:332:ARG:HH12	1.78	0.48
1:E:329:ILE:HD12	1:E:332:ARG:HH12	1.78	0.48
1:F:74:LEU:O	1:F:78:LEU:HG	2.13	0.48
1:K:26:LEU:HD23	1:K:52:THR:HB	1.94	0.48
1:K:46:TYR:CE2	1:K:109:ARG:HG2	2.47	0.48
1:K:271:PHE:HA	1:K:370:ALA:HB1	1.96	0.48
1:L:50:THR:HB	1:L:62:LYS:H	1.77	0.48
1:P:271:PHE:HA	1:P:370:ALA:HB1	1.96	0.48
1:S:74:LEU:O	1:S:78:LEU:HG	2.13	0.48
1:U:209:HIS:CD2	1:V:226:ASP:O	2.67	0.48
1:W:74:LEU:O	1:W:78:LEU:HG	2.14	0.48
1:W:292:ARG:NH1	1:W:349:VAL:HG22	2.29	0.48
1:Y:329:ILE:HD12	1:Y:332:ARG:HH12	1.78	0.48
1:a:271:PHE:HA	1:a:370:ALA:HB1	1.96	0.48
1:c:389:TRP:CB	1:d:379:ALA:HB2	2.44	0.48
1:d:74:LEU:O	1:d:78:LEU:HG	2.14	0.48
1:f:74:LEU:O	1:f:78:LEU:HG	2.13	0.48
1:j:81:LYS:HZ1	1:j:129:SER:HB3	1.78	0.48
1:p:119:ARG:HA	1:p:122:LEU:HD12	1.96	0.48
1:p:271:PHE:HA	1:p:370:ALA:HB1	1.96	0.48
1:p:329:ILE:HD12	1:p:332:ARG:HH12	1.78	0.48
1:q:74:LEU:O	1:q:78:LEU:HG	2.14	0.48
1:r:213:LEU:HD23	1:s:223:SER:OG	2.14	0.48
1:t:74:LEU:O	1:t:78:LEU:HG	2.13	0.48
1:w:271:PHE:HA	1:w:370:ALA:HB1	1.96	0.48
1:0:74:LEU:HD11	1:0:132:LEU:HA	1.94	0.48
1:1:119:ARG:HA	1:1:122:LEU:HD12	1.96	0.48
1:3:292:ARG:NH1	1:3:349:VAL:HG22	2.29	0.48
1:3:369:VAL:HG13	1:3:373:GLN:NE2	2.28	0.48
1:4:81:LYS:NZ	1:4:129:SER:HB3	2.29	0.48
1:4:329:ILE:HD12	1:4:332:ARG:HH12	1.78	0.48
1:6:74:LEU:O	1:6:78:LEU:HG	2.14	0.48
1:9:74:LEU:O	1:9:78:LEU:HG	2.14	0.48
1:AB:329:ILE:HD12	1:AB:332:ARG:HH12	1.78	0.48
1:D:292:ARG:NH1	1:D:349:VAL:HG22	2.29	0.48
1:F:271:PHE:HA	1:F:370:ALA:HB1	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:329:ILE:HD12	1:H:332:ARG:HH12	1.78	0.48
1:I:329:ILE:HD12	1:I:332:ARG:HH12	1.78	0.48
1:J:292:ARG:NH1	1:J:349:VAL:HG22	2.29	0.48
1:J:329:ILE:HD12	1:J:332:ARG:HH12	1.78	0.48
1:L:119:ARG:HA	1:L:122:LEU:HD12	1.96	0.48
1:L:329:ILE:HD12	1:L:332:ARG:HH12	1.78	0.48
1:P:81:LYS:NZ	1:P:129:SER:HB3	2.29	0.48
1:Q:74:LEU:O	1:Q:78:LEU:HG	2.13	0.48
1:Q:369:VAL:HG13	1:Q:373:GLN:NE2	2.28	0.48
1:T:271:PHE:HA	1:T:370:ALA:HB1	1.96	0.48
1:W:271:PHE:HA	1:W:370:ALA:HB1	1.96	0.48
1:W:329:ILE:HD12	1:W:332:ARG:HH12	1.78	0.48
1:b:329:ILE:HD12	1:b:332:ARG:HH12	1.78	0.48
1:e:74:LEU:O	1:e:78:LEU:HG	2.13	0.48
1:e:81:LYS:NZ	1:e:129:SER:HB3	2.29	0.48
1:f:292:ARG:NH1	1:f:349:VAL:HG22	2.29	0.48
1:g:329:ILE:HD12	1:g:332:ARG:HH12	1.78	0.48
1:h:329:ILE:HD12	1:h:332:ARG:HH12	1.78	0.48
1:i:292:ARG:NH1	1:i:349:VAL:HG22	2.29	0.48
1:j:81:LYS:NZ	1:j:129:SER:HB3	2.29	0.48
1:m:74:LEU:O	1:m:78:LEU:HG	2.14	0.48
1:m:271:PHE:HA	1:m:370:ALA:HB1	1.96	0.48
1:m:369:VAL:HG13	1:m:373:GLN:NE2	2.28	0.48
1:n:292:ARG:NH1	1:n:349:VAL:HG22	2.29	0.48
1:n:369:VAL:HG13	1:n:373:GLN:NE2	2.28	0.48
1:o:74:LEU:O	1:o:78:LEU:HG	2.14	0.48
1:o:271:PHE:HA	1:o:370:ALA:HB1	1.96	0.48
1:o:292:ARG:NH1	1:o:349:VAL:HG22	2.29	0.48
1:q:292:ARG:NH1	1:q:349:VAL:HG22	2.29	0.48
1:t:26:LEU:HD23	1:t:52:THR:HB	1.94	0.48
1:u:119:ARG:HA	1:u:122:LEU:HD12	1.96	0.48
1:0:74:LEU:O	1:0:78:LEU:HG	2.13	0.48
1:1:329:ILE:HD12	1:1:332:ARG:HH12	1.78	0.48
1:5:292:ARG:NH1	1:5:349:VAL:HG22	2.29	0.48
1:8:292:ARG:NH1	1:8:349:VAL:HG22	2.29	0.48
1:9:392:LEU:HA	1:9:395:LYS:HZ3	1.79	0.48
1:A:271:PHE:HA	1:A:370:ALA:HB1	1.96	0.48
1:A:292:ARG:NH1	1:A:349:VAL:HG22	2.29	0.48
1:B:119:ARG:HA	1:B:122:LEU:HD12	1.96	0.48
1:C:230:ALA:HB2	1:D:209:HIS:NE2	2.29	0.48
1:C:292:ARG:NH1	1:C:349:VAL:HG22	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:26:LEU:HD23	1:E:52:THR:HB	1.94	0.48
1:E:74:LEU:O	1:E:78:LEU:HG	2.14	0.48
1:E:292:ARG:NH1	1:E:349:VAL:HG22	2.29	0.48
1:G:26:LEU:HD23	1:G:52:THR:HB	1.94	0.48
1:H:292:ARG:NH1	1:H:349:VAL:HG22	2.29	0.48
1:L:74:LEU:O	1:L:78:LEU:HG	2.14	0.48
1:L:369:VAL:HG13	1:L:373:GLN:NE2	2.28	0.48
1:M:74:LEU:O	1:M:78:LEU:HG	2.14	0.48
1:M:213:LEU:HD23	1:N:223:SER:OG	2.14	0.48
1:M:292:ARG:NH1	1:M:349:VAL:HG22	2.29	0.48
1:M:369:VAL:HG13	1:M:373:GLN:NE2	2.28	0.48
1:N:81:LYS:NZ	1:N:129:SER:HB3	2.29	0.48
1:O:369:VAL:HG13	1:O:373:GLN:NE2	2.28	0.48
1:Q:271:PHE:HA	1:Q:370:ALA:HB1	1.96	0.48
1:R:292:ARG:NH1	1:R:349:VAL:HG22	2.29	0.48
1:S:119:ARG:HA	1:S:122:LEU:HD12	1.96	0.48
1:V:271:PHE:HA	1:V:370:ALA:HB1	1.96	0.48
1:a:213:LEU:HD23	1:b:223:SER:OG	2.14	0.48
1:c:292:ARG:NH1	1:c:349:VAL:HG22	2.29	0.48
1:d:119:ARG:HA	1:d:122:LEU:HD12	1.96	0.48
1:e:119:ARG:HA	1:e:122:LEU:HD12	1.96	0.48
1:g:81:LYS:NZ	1:g:129:SER:HB3	2.29	0.48
1:h:119:ARG:HA	1:h:122:LEU:HD12	1.96	0.48
1:i:81:LYS:NZ	1:i:129:SER:HB3	2.29	0.48
1:k:292:ARG:NH1	1:k:349:VAL:HG22	2.29	0.48
1:l:81:LYS:NZ	1:l:129:SER:HB3	2.29	0.48
1:n:26:LEU:HD23	1:n:52:THR:HB	1.94	0.48
1:n:271:PHE:HA	1:n:370:ALA:HB1	1.96	0.48
1:q:81:LYS:NZ	1:q:129:SER:HB3	2.29	0.48
1:r:81:LYS:NZ	1:r:129:SER:HB3	2.29	0.48
1:s:81:LYS:NZ	1:s:129:SER:HB3	2.29	0.48
1:u:329:ILE:HD12	1:u:332:ARG:HH12	1.78	0.48
1:y:292:ARG:NH1	1:y:349:VAL:HG22	2.29	0.48
1:1:292:ARG:NH1	1:1:349:VAL:HG22	2.29	0.47
1:1:369:VAL:HG13	1:1:373:GLN:NE2	2.28	0.47
1:2:81:LYS:NZ	1:2:129:SER:HB3	2.29	0.47
1:7:292:ARG:NH1	1:7:349:VAL:HG22	2.29	0.47
1:9:119:ARG:HA	1:9:122:LEU:HD12	1.96	0.47
1:A:119:ARG:HA	1:A:122:LEU:HD12	1.96	0.47
1:A:256:LEU:HD22	1:A:385:VAL:HG12	1.96	0.47
1:D:74:LEU:O	1:D:78:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:369:VAL:HG13	1:E:373:GLN:NE2	2.28	0.47
1:G:292:ARG:NH1	1:G:349:VAL:HG22	2.29	0.47
1:I:74:LEU:O	1:I:78:LEU:HG	2.13	0.47
1:K:369:VAL:HG13	1:K:373:GLN:NE2	2.28	0.47
1:L:81:LYS:NZ	1:L:129:SER:HB3	2.29	0.47
1:N:329:ILE:HD12	1:N:332:ARG:HH12	1.78	0.47
1:P:50:THR:HB	1:P:62:LYS:H	1.77	0.47
1:S:271:PHE:HA	1:S:370:ALA:HB1	1.96	0.47
1:S:292:ARG:NH1	1:S:349:VAL:HG22	2.29	0.47
1:T:81:LYS:NZ	1:T:129:SER:HB3	2.29	0.47
1:T:292:ARG:NH1	1:T:349:VAL:HG22	2.29	0.47
1:U:81:LYS:NZ	1:U:129:SER:HB3	2.29	0.47
1:V:292:ARG:NH1	1:V:349:VAL:HG22	2.29	0.47
1:W:81:LYS:NZ	1:W:129:SER:HB3	2.29	0.47
1:W:392:LEU:HA	1:W:395:LYS:HZ3	1.78	0.47
1:X:81:LYS:NZ	1:X:129:SER:HB3	2.29	0.47
1:X:292:ARG:NH1	1:X:349:VAL:HG22	2.29	0.47
1:Z:81:LYS:NZ	1:Z:129:SER:HB3	2.29	0.47
1:b:81:LYS:NZ	1:b:129:SER:HB3	2.29	0.47
1:b:256:LEU:HD22	1:b:385:VAL:HG12	1.96	0.47
1:c:256:LEU:HD22	1:c:385:VAL:HG12	1.96	0.47
1:f:119:ARG:HA	1:f:122:LEU:HD12	1.96	0.47
1:i:369:VAL:HG13	1:i:373:GLN:NE2	2.28	0.47
1:n:81:LYS:NZ	1:n:129:SER:HB3	2.29	0.47
1:n:329:ILE:HD12	1:n:332:ARG:HH12	1.78	0.47
1:p:292:ARG:NH1	1:p:349:VAL:HG22	2.29	0.47
1:r:271:PHE:HA	1:r:370:ALA:HB1	1.96	0.47
1:s:119:ARG:HA	1:s:122:LEU:HD12	1.96	0.47
1:s:292:ARG:NH1	1:s:349:VAL:HG22	2.29	0.47
1:s:369:VAL:HG13	1:s:373:GLN:NE2	2.28	0.47
1:t:81:LYS:NZ	1:t:129:SER:HB3	2.29	0.47
1:u:74:LEU:O	1:u:78:LEU:HG	2.13	0.47
1:v:74:LEU:O	1:v:78:LEU:HG	2.14	0.47
1:z:74:LEU:O	1:z:78:LEU:HG	2.14	0.47
1:2:369:VAL:HG13	1:2:373:GLN:NE2	2.28	0.47
1:5:271:PHE:HA	1:5:370:ALA:HB1	1.96	0.47
1:C:329:ILE:HD12	1:C:332:ARG:HH12	1.78	0.47
1:E:271:PHE:HA	1:E:370:ALA:HB1	1.96	0.47
1:G:230:ALA:HB2	1:H:209:HIS:CE1	2.49	0.47
1:G:256:LEU:HD22	1:G:385:VAL:HG12	1.97	0.47
1:O:119:ARG:HA	1:O:122:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:74:LEU:O	1:P:78:LEU:HG	2.14	0.47
1:P:292:ARG:NH1	1:P:349:VAL:HG22	2.29	0.47
1:U:292:ARG:NH1	1:U:349:VAL:HG22	2.29	0.47
1:a:256:LEU:HD22	1:a:385:VAL:HG12	1.97	0.47
1:a:292:ARG:NH1	1:a:349:VAL:HG22	2.29	0.47
1:b:292:ARG:NH1	1:b:349:VAL:HG22	2.29	0.47
1:e:292:ARG:NH1	1:e:349:VAL:HG22	2.29	0.47
1:g:292:ARG:NH1	1:g:349:VAL:HG22	2.29	0.47
1:m:81:LYS:NZ	1:m:129:SER:HB3	2.29	0.47
1:m:292:ARG:NH1	1:m:349:VAL:HG22	2.29	0.47
1:n:209:HIS:CD2	1:o:226:ASP:O	2.67	0.47
1:o:119:ARG:HA	1:o:122:LEU:HD12	1.96	0.47
1:t:230:ALA:HB2	1:u:209:HIS:CD2	2.49	0.47
1:t:256:LEU:HD22	1:t:385:VAL:HG12	1.96	0.47
1:x:81:LYS:NZ	1:x:129:SER:HB3	2.29	0.47
1:x:369:VAL:HG13	1:x:373:GLN:NE2	2.28	0.47
1:y:119:ARG:HA	1:y:122:LEU:HD12	1.96	0.47
1:9:292:ARG:NH1	1:9:349:VAL:HG22	2.29	0.47
1:A:329:ILE:HD12	1:A:332:ARG:HH12	1.78	0.47
1:AB:74:LEU:O	1:AB:78:LEU:HG	2.14	0.47
1:D:81:LYS:NZ	1:D:129:SER:HB3	2.29	0.47
1:F:392:LEU:HD23	1:F:395:LYS:HZ1	1.80	0.47
1:H:256:LEU:HD22	1:H:385:VAL:HG12	1.97	0.47
1:I:81:LYS:NZ	1:I:129:SER:HB3	2.29	0.47
1:K:119:ARG:HA	1:K:122:LEU:HD12	1.96	0.47
1:N:74:LEU:O	1:N:78:LEU:HG	2.14	0.47
1:Q:292:ARG:NH1	1:Q:349:VAL:HG22	2.29	0.47
1:R:81:LYS:NZ	1:R:129:SER:HB3	2.29	0.47
1:S:230:ALA:HB2	1:T:209:HIS:CE1	2.49	0.47
1:W:369:VAL:HG13	1:W:373:GLN:NE2	2.28	0.47
1:Z:369:VAL:HG13	1:Z:373:GLN:NE2	2.28	0.47
1:a:74:LEU:O	1:a:78:LEU:HG	2.14	0.47
1:a:329:ILE:HD12	1:a:332:ARG:HH12	1.78	0.47
1:c:81:LYS:NZ	1:c:129:SER:HB3	2.29	0.47
1:d:292:ARG:NH1	1:d:349:VAL:HG22	2.29	0.47
1:f:256:LEU:HD22	1:f:385:VAL:HG12	1.96	0.47
1:h:369:VAL:HG13	1:h:373:GLN:NE2	2.28	0.47
1:i:119:ARG:HA	1:i:122:LEU:HD12	1.96	0.47
1:k:369:VAL:HG13	1:k:373:GLN:NE2	2.28	0.47
1:l:119:ARG:HA	1:l:122:LEU:HD12	1.96	0.47
1:m:256:LEU:HD22	1:m:385:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:292:ARG:NH1	1:r:349:VAL:HG22	2.29	0.47
1:u:369:VAL:HG13	1:u:373:GLN:NE2	2.28	0.47
1:y:81:LYS:NZ	1:y:129:SER:HB3	2.29	0.47
1:y:271:PHE:HA	1:y:370:ALA:HB1	1.96	0.47
1:z:369:VAL:HG13	1:z:373:GLN:NE2	2.28	0.47
1:3:119:ARG:HA	1:3:122:LEU:HD12	1.96	0.47
1:5:230:ALA:HB2	1:6:209:HIS:CD2	2.49	0.47
1:6:119:ARG:HA	1:6:122:LEU:HD12	1.96	0.47
1:6:292:ARG:NH1	1:6:349:VAL:HG22	2.29	0.47
1:9:256:LEU:HD22	1:9:385:VAL:HG12	1.97	0.47
1:AA:329:ILE:HD12	1:AA:332:ARG:HH12	1.78	0.47
1:AB:256:LEU:HD22	1:AB:385:VAL:HG12	1.97	0.47
1:B:74:LEU:O	1:B:78:LEU:HG	2.14	0.47
1:D:271:PHE:HA	1:D:370:ALA:HB1	1.96	0.47
1:E:81:LYS:NZ	1:E:129:SER:HB3	2.29	0.47
1:F:256:LEU:HD22	1:F:385:VAL:HG12	1.97	0.47
1:G:81:LYS:NZ	1:G:129:SER:HB3	2.29	0.47
1:H:119:ARG:HA	1:H:122:LEU:HD12	1.96	0.47
1:I:119:ARG:HA	1:I:122:LEU:HD12	1.96	0.47
1:I:292:ARG:NH1	1:I:349:VAL:HG22	2.29	0.47
1:I:369:VAL:HG13	1:I:373:GLN:NE2	2.28	0.47
1:J:74:LEU:O	1:J:78:LEU:HG	2.14	0.47
1:K:221:GLY:HA2	1:K:260:LEU:HD13	1.97	0.47
1:L:292:ARG:NH1	1:L:349:VAL:HG22	2.29	0.47
1:N:292:ARG:NH1	1:N:349:VAL:HG22	2.29	0.47
1:O:74:LEU:O	1:O:78:LEU:HG	2.13	0.47
1:V:256:LEU:HD22	1:V:385:VAL:HG12	1.97	0.47
1:Y:230:ALA:HB2	1:Z:209:HIS:NE2	2.29	0.47
1:Y:369:VAL:HG13	1:Y:373:GLN:NE2	2.28	0.47
1:a:81:LYS:NZ	1:a:129:SER:HB3	2.29	0.47
1:b:221:GLY:HA2	1:b:260:LEU:HD13	1.97	0.47
1:d:256:LEU:HD22	1:d:385:VAL:HG12	1.96	0.47
1:f:271:PHE:HA	1:f:370:ALA:HB1	1.96	0.47
1:h:292:ARG:NH1	1:h:349:VAL:HG22	2.29	0.47
1:m:318:LEU:CG	1:p:182:VAL:HG21	2.39	0.47
1:r:329:ILE:HD12	1:r:332:ARG:HH12	1.78	0.47
1:t:292:ARG:NH1	1:t:349:VAL:HG22	2.29	0.47
1:u:292:ARG:NH1	1:u:349:VAL:HG22	2.29	0.47
1:v:369:VAL:HG13	1:v:373:GLN:NE2	2.28	0.47
1:w:209:HIS:CD2	1:x:226:ASP:O	2.67	0.47
1:0:256:LEU:HD22	1:0:385:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:0:292:ARG:NH1	1:0:349:VAL:HG22	2.29	0.47
1:4:221:GLY:HA2	1:4:260:LEU:HD13	1.97	0.47
1:6:81:LYS:NZ	1:6:129:SER:HB3	2.29	0.47
1:AA:119:ARG:HA	1:AA:122:LEU:HD12	1.96	0.47
1:AB:292:ARG:NH1	1:AB:349:VAL:HG22	2.29	0.47
1:G:74:LEU:O	1:G:78:LEU:HG	2.14	0.47
1:J:81:LYS:HZ1	1:J:129:SER:HB3	1.79	0.47
1:J:81:LYS:NZ	1:J:129:SER:HB3	2.29	0.47
1:O:292:ARG:NH1	1:O:349:VAL:HG22	2.29	0.47
1:R:119:ARG:HA	1:R:122:LEU:HD12	1.96	0.47
1:T:221:GLY:HA2	1:T:260:LEU:HD13	1.97	0.47
1:T:256:LEU:HD22	1:T:385:VAL:HG12	1.96	0.47
1:V:119:ARG:HA	1:V:122:LEU:HD12	1.96	0.47
1:X:119:ARG:HA	1:X:122:LEU:HD12	1.96	0.47
1:Y:81:LYS:NZ	1:Y:129:SER:HB3	2.29	0.47
1:e:221:GLY:HA2	1:e:260:LEU:HD13	1.97	0.47
1:h:81:LYS:NZ	1:h:129:SER:HB3	2.29	0.47
1:j:292:ARG:NH1	1:j:349:VAL:HG22	2.29	0.47
1:k:329:ILE:HD12	1:k:332:ARG:HH12	1.78	0.47
1:l:292:ARG:NH1	1:l:349:VAL:HG22	2.29	0.47
1:o:81:LYS:NZ	1:o:129:SER:HB3	2.29	0.47
1:q:256:LEU:HD22	1:q:385:VAL:HG12	1.96	0.47
1:s:221:GLY:HA2	1:s:260:LEU:HD13	1.97	0.47
1:t:221:GLY:HA2	1:t:260:LEU:HD13	1.97	0.47
1:u:256:LEU:HD22	1:u:385:VAL:HG12	1.96	0.47
1:v:292:ARG:NH1	1:v:349:VAL:HG22	2.29	0.47
1:w:119:ARG:HA	1:w:122:LEU:HD12	1.96	0.47
1:y:74:LEU:O	1:y:78:LEU:HG	2.14	0.47
1:0:81:LYS:NZ	1:0:129:SER:HB3	2.29	0.47
1:1:81:LYS:NZ	1:1:129:SER:HB3	2.29	0.47
1:4:292:ARG:NH1	1:4:349:VAL:HG22	2.29	0.47
1:7:81:LYS:NZ	1:7:129:SER:HB3	2.29	0.47
1:8:81:LYS:NZ	1:8:129:SER:HB3	2.29	0.47
1:9:392:LEU:HD23	1:9:395:LYS:HZ1	1.79	0.47
1:A:81:LYS:NZ	1:A:129:SER:HB3	2.29	0.47
1:AA:221:GLY:HA2	1:AA:260:LEU:HD13	1.97	0.47
1:F:119:ARG:HA	1:F:122:LEU:HD12	1.96	0.47
1:F:292:ARG:NH1	1:F:349:VAL:HG22	2.29	0.47
1:L:260:LEU:HD23	1:L:381:LEU:HD21	1.97	0.47
1:S:369:VAL:HG13	1:S:373:GLN:NE2	2.28	0.47
1:U:271:PHE:HA	1:U:370:ALA:HB1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:X:221:GLY:HA2	1:X:260:LEU:HD13	1.97	0.47
1:g:392:LEU:HA	1:g:395:LYS:HZ3	1.79	0.47
1:j:119:ARG:HA	1:j:122:LEU:HD12	1.96	0.47
1:k:230:ALA:HB2	1:l:209:HIS:CD2	2.49	0.47
1:k:256:LEU:HD22	1:k:385:VAL:HG12	1.97	0.47
1:l:256:LEU:HD22	1:l:385:VAL:HG12	1.97	0.47
1:s:260:LEU:HD23	1:s:381:LEU:HD21	1.97	0.47
1:v:81:LYS:NZ	1:v:129:SER:HB3	2.29	0.47
1:w:292:ARG:NH1	1:w:349:VAL:HG22	2.29	0.47
1:x:221:GLY:HA2	1:x:260:LEU:HD13	1.97	0.47
1:y:221:GLY:HA2	1:y:260:LEU:HD13	1.97	0.47
1:y:329:ILE:HD12	1:y:332:ARG:HH12	1.78	0.47
1:0:329:ILE:HD12	1:0:332:ARG:HH12	1.78	0.47
1:1:213:LEU:HD23	1:2:223:SER:OG	2.14	0.47
1:1:260:LEU:HD23	1:1:381:LEU:HD21	1.97	0.47
1:2:119:ARG:HA	1:2:122:LEU:HD12	1.96	0.47
1:2:221:GLY:HA2	1:2:260:LEU:HD13	1.97	0.47
1:3:81:LYS:NZ	1:3:129:SER:HB3	2.29	0.47
1:3:329:ILE:HD12	1:3:332:ARG:HH12	1.78	0.47
1:4:119:ARG:HA	1:4:122:LEU:HD12	1.96	0.47
1:5:81:LYS:NZ	1:5:129:SER:HB3	2.29	0.47
1:6:221:GLY:HA2	1:6:260:LEU:HD13	1.97	0.47
1:8:221:GLY:HA2	1:8:260:LEU:HD13	1.97	0.47
1:9:329:ILE:HD12	1:9:332:ARG:HH12	1.78	0.47
1:A:368:GLY:HA3	1:B:400:TYR:CG	2.50	0.47
1:AA:256:LEU:HD22	1:AA:385:VAL:HG12	1.97	0.47
1:AB:81:LYS:NZ	1:AB:129:SER:HB3	2.29	0.47
1:AB:119:ARG:HA	1:AB:122:LEU:HD12	1.96	0.47
1:B:81:LYS:HZ1	1:B:129:SER:HB3	1.79	0.47
1:B:292:ARG:NH1	1:B:349:VAL:HG22	2.29	0.47
1:C:256:LEU:HD22	1:C:385:VAL:HG12	1.97	0.47
1:C:271:PHE:HA	1:C:370:ALA:HB1	1.96	0.47
1:G:221:GLY:HA2	1:G:260:LEU:HD13	1.97	0.47
1:H:81:LYS:NZ	1:H:129:SER:HB3	2.29	0.47
1:K:81:LYS:NZ	1:K:129:SER:HB3	2.29	0.47
1:L:271:PHE:HA	1:L:370:ALA:HB1	1.96	0.47
1:M:119:ARG:HA	1:M:122:LEU:HD12	1.96	0.47
1:N:119:ARG:HA	1:N:122:LEU:HD12	1.96	0.47
1:N:221:GLY:HA2	1:N:260:LEU:HD13	1.97	0.47
1:P:221:GLY:HA2	1:P:260:LEU:HD13	1.97	0.47
1:Q:81:LYS:NZ	1:Q:129:SER:HB3	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:371:PHE:HE1	1:R:231:VAL:HG22	1.78	0.47
1:S:256:LEU:HD22	1:S:385:VAL:HG12	1.96	0.47
1:T:119:ARG:HA	1:T:122:LEU:HD12	1.96	0.47
1:U:74:LEU:O	1:U:78:LEU:HG	2.14	0.47
1:U:329:ILE:HD12	1:U:332:ARG:HH12	1.78	0.47
1:V:221:GLY:HA2	1:V:260:LEU:HD13	1.97	0.47
1:W:209:HIS:CD2	1:X:230:ALA:HB2	2.50	0.47
1:X:260:LEU:HD23	1:X:381:LEU:HD21	1.97	0.47
1:X:271:PHE:HA	1:X:370:ALA:HB1	1.96	0.47
1:Y:260:LEU:HD23	1:Y:381:LEU:HD21	1.97	0.47
1:Y:292:ARG:NH1	1:Y:349:VAL:HG22	2.29	0.47
1:Z:221:GLY:HA2	1:Z:260:LEU:HD13	1.97	0.47
1:a:119:ARG:HA	1:a:122:LEU:HD12	1.96	0.47
1:c:271:PHE:HA	1:c:370:ALA:HB1	1.96	0.47
1:d:81:LYS:NZ	1:d:129:SER:HB3	2.29	0.47
1:f:81:LYS:NZ	1:f:129:SER:HB3	2.29	0.47
1:f:260:LEU:HD23	1:f:381:LEU:HD21	1.97	0.47
1:g:392:LEU:HD23	1:g:395:LYS:HZ1	1.79	0.47
1:j:221:GLY:HA2	1:j:260:LEU:HD13	1.97	0.47
1:k:119:ARG:HA	1:k:122:LEU:HD12	1.96	0.47
1:k:271:PHE:HA	1:k:370:ALA:HB1	1.96	0.47
1:l:221:GLY:HA2	1:l:260:LEU:HD13	1.97	0.47
1:m:119:ARG:HA	1:m:122:LEU:HD12	1.96	0.47
1:o:221:GLY:HA2	1:o:260:LEU:HD13	1.97	0.47
1:o:260:LEU:HD23	1:o:381:LEU:HD21	1.97	0.47
1:p:81:LYS:NZ	1:p:129:SER:HB3	2.29	0.47
1:p:256:LEU:HD22	1:p:385:VAL:HG12	1.97	0.47
1:q:221:GLY:HA2	1:q:260:LEU:HD13	1.97	0.47
1:s:74:LEU:O	1:s:78:LEU:HG	2.14	0.47
1:s:271:PHE:HA	1:s:370:ALA:HB1	1.96	0.47
1:t:271:PHE:HA	1:t:370:ALA:HB1	1.96	0.47
1:u:221:GLY:HA2	1:u:260:LEU:HD13	1.97	0.47
1:u:271:PHE:HA	1:u:370:ALA:HB1	1.96	0.47
1:w:81:LYS:NZ	1:w:129:SER:HB3	2.29	0.47
1:w:221:GLY:HA2	1:w:260:LEU:HD13	1.97	0.47
1:z:221:GLY:HA2	1:z:260:LEU:HD13	1.97	0.47
1:z:271:PHE:HA	1:z:370:ALA:HB1	1.96	0.47
1:z:292:ARG:NH1	1:z:349:VAL:HG22	2.29	0.47
1:3:230:ALA:HB2	1:4:209:HIS:NE2	2.29	0.47
1:8:119:ARG:HA	1:8:122:LEU:HD12	1.96	0.47
1:8:260:LEU:HD23	1:8:381:LEU:HD21	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:292:ARG:NH1	1:AA:349:VAL:HG22	2.29	0.47
1:E:202:HIS:HB3	1:F:234:LEU:HD13	1.96	0.47
1:E:256:LEU:HD22	1:E:385:VAL:HG12	1.96	0.47
1:F:81:LYS:NZ	1:F:129:SER:HB3	2.29	0.47
1:G:119:ARG:HA	1:G:122:LEU:HD12	1.96	0.47
1:K:292:ARG:NH1	1:K:349:VAL:HG22	2.29	0.47
1:M:81:LYS:NZ	1:M:129:SER:HB3	2.29	0.47
1:Q:260:LEU:HD23	1:Q:381:LEU:HD21	1.97	0.47
1:S:260:LEU:HD23	1:S:381:LEU:HD21	1.97	0.47
1:X:74:LEU:O	1:X:78:LEU:HG	2.14	0.47
1:e:256:LEU:HD22	1:e:385:VAL:HG12	1.97	0.47
1:m:81:LYS:HZ1	1:m:129:SER:HB3	1.79	0.47
1:m:221:GLY:HA2	1:m:260:LEU:HD13	1.97	0.47
1:n:260:LEU:HD23	1:n:381:LEU:HD21	1.97	0.47
1:q:119:ARG:HA	1:q:122:LEU:HD12	1.96	0.47
1:v:221:GLY:HA2	1:v:260:LEU:HD13	1.97	0.47
1:v:256:LEU:HD22	1:v:385:VAL:HG12	1.97	0.47
1:v:260:LEU:HD23	1:v:381:LEU:HD21	1.97	0.47
1:v:271:PHE:HA	1:v:370:ALA:HB1	1.95	0.47
1:y:209:HIS:CD2	1:z:230:ALA:HB2	2.50	0.47
1:z:81:LYS:NZ	1:z:129:SER:HB3	2.29	0.47
1:1:256:LEU:HD22	1:1:385:VAL:HG12	1.96	0.47
1:1:271:PHE:HA	1:1:370:ALA:HB1	1.96	0.47
1:7:260:LEU:HD23	1:7:381:LEU:HD21	1.97	0.47
1:9:81:LYS:NZ	1:9:129:SER:HB3	2.29	0.47
1:A:396:LEU:HD13	1:B:372:HIS:HA	1.96	0.47
1:AA:81:LYS:NZ	1:AA:129:SER:HB3	2.29	0.47
1:D:260:LEU:HD23	1:D:381:LEU:HD21	1.97	0.47
1:E:260:LEU:HD23	1:E:381:LEU:HD21	1.97	0.47
1:G:260:LEU:HD23	1:G:381:LEU:HD21	1.97	0.47
1:I:256:LEU:HD22	1:I:385:VAL:HG12	1.96	0.47
1:J:221:GLY:HA2	1:J:260:LEU:HD13	1.97	0.47
1:L:221:GLY:HA2	1:L:260:LEU:HD13	1.97	0.47
1:P:119:ARG:HA	1:P:122:LEU:HD12	1.96	0.47
1:P:260:LEU:HD23	1:P:381:LEU:HD21	1.97	0.47
1:Q:256:LEU:HD22	1:Q:385:VAL:HG12	1.97	0.47
1:R:221:GLY:HA2	1:R:260:LEU:HD13	1.97	0.47
1:V:260:LEU:HD23	1:V:381:LEU:HD21	1.97	0.47
1:Y:271:PHE:HA	1:Y:370:ALA:HB1	1.96	0.47
1:Z:119:ARG:HA	1:Z:122:LEU:HD12	1.96	0.47
1:b:271:PHE:HA	1:b:370:ALA:HB1	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:271:PHE:HA	1:e:370:ALA:HB1	1.96	0.47
1:g:221:GLY:HA2	1:g:260:LEU:HD13	1.97	0.47
1:g:256:LEU:HD22	1:g:385:VAL:HG12	1.96	0.47
1:g:271:PHE:HA	1:g:370:ALA:HB1	1.96	0.47
1:i:256:LEU:HD22	1:i:385:VAL:HG12	1.97	0.47
1:i:260:LEU:HD23	1:i:381:LEU:HD21	1.97	0.47
1:r:256:LEU:HD22	1:r:385:VAL:HG12	1.96	0.47
1:v:329:ILE:HD12	1:v:332:ARG:HH12	1.78	0.47
1:y:260:LEU:HD23	1:y:381:LEU:HD21	1.97	0.47
1:6:260:LEU:HD23	1:6:381:LEU:HD21	1.97	0.47
1:A:368:GLY:CA	1:B:400:TYR:CD2	2.98	0.47
1:D:221:GLY:HA2	1:D:260:LEU:HD13	1.97	0.47
1:H:221:GLY:HA2	1:H:260:LEU:HD13	1.97	0.47
1:I:271:PHE:HA	1:I:370:ALA:HB1	1.96	0.47
1:J:260:LEU:HD23	1:J:381:LEU:HD21	1.97	0.47
1:J:271:PHE:HA	1:J:370:ALA:HB1	1.96	0.47
1:M:256:LEU:HD22	1:M:385:VAL:HG12	1.97	0.47
1:O:271:PHE:HA	1:O:370:ALA:HB1	1.96	0.47
1:Y:221:GLY:HA2	1:Y:260:LEU:HD13	1.97	0.47
1:Z:256:LEU:HD22	1:Z:385:VAL:HG12	1.97	0.47
1:Z:292:ARG:NH1	1:Z:349:VAL:HG22	2.29	0.47
1:c:329:ILE:HD12	1:c:332:ARG:HH12	1.78	0.47
1:e:260:LEU:HD23	1:e:381:LEU:HD21	1.97	0.47
1:h:221:GLY:HA2	1:h:260:LEU:HD13	1.97	0.47
1:h:400:TYR:CZ	1:i:368:GLY:HA2	2.50	0.47
1:n:256:LEU:HD22	1:n:385:VAL:HG12	1.96	0.47
1:p:209:HIS:CD2	1:q:230:ALA:HB2	2.50	0.47
1:q:271:PHE:HA	1:q:370:ALA:HB1	1.96	0.47
1:w:260:LEU:HD23	1:w:381:LEU:HD21	1.97	0.47
1:x:260:LEU:HD23	1:x:381:LEU:HD21	1.97	0.47
1:z:256:LEU:HD22	1:z:385:VAL:HG12	1.97	0.47
1:z:329:ILE:HD12	1:z:332:ARG:HH12	1.78	0.47
1:0:182:VAL:HG21	1:8:318:LEU:CG	2.39	0.46
1:0:209:HIS:CD2	1:AA:230:ALA:HB2	2.50	0.46
1:0:271:PHE:HA	1:0:370:ALA:HB1	1.96	0.46
1:3:256:LEU:HD22	1:3:385:VAL:HG12	1.97	0.46
1:3:260:LEU:HD23	1:3:381:LEU:HD21	1.97	0.46
1:4:256:LEU:HD22	1:4:385:VAL:HG12	1.97	0.46
1:9:271:PHE:HA	1:9:370:ALA:HB1	1.96	0.46
1:D:256:LEU:HD22	1:D:385:VAL:HG12	1.96	0.46
1:E:221:GLY:HA2	1:E:260:LEU:HD13	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:271:PHE:HA	1:G:370:ALA:HB1	1.96	0.46
1:I:221:GLY:HA2	1:I:260:LEU:HD13	1.97	0.46
1:O:329:ILE:HD12	1:O:332:ARG:HH12	1.78	0.46
1:R:256:LEU:HD22	1:R:385:VAL:HG12	1.96	0.46
1:S:81:LYS:NZ	1:S:129:SER:HB3	2.29	0.46
1:T:318:LEU:CG	1:W:182:VAL:HG21	2.39	0.46
1:U:221:GLY:HA2	1:U:260:LEU:HD13	1.97	0.46
1:U:256:LEU:HD22	1:U:385:VAL:HG12	1.96	0.46
1:Y:256:LEU:HD22	1:Y:385:VAL:HG12	1.96	0.46
1:d:221:GLY:HA2	1:d:260:LEU:HD13	1.97	0.46
1:f:221:GLY:HA2	1:f:260:LEU:HD13	1.97	0.46
1:h:256:LEU:HD22	1:h:385:VAL:HG12	1.97	0.46
1:m:260:LEU:HD23	1:m:381:LEU:HD21	1.97	0.46
1:p:260:LEU:HD23	1:p:381:LEU:HD21	1.97	0.46
1:w:377:GLY:O	1:w:380:ARG:HG3	2.16	0.46
1:y:256:LEU:HD22	1:y:385:VAL:HG12	1.97	0.46
1:z:119:ARG:HA	1:z:122:LEU:HD12	1.96	0.46
1:1:221:GLY:HA2	1:1:260:LEU:HD13	1.97	0.46
1:1:377:GLY:O	1:1:380:ARG:HG3	2.16	0.46
1:5:260:LEU:HD23	1:5:381:LEU:HD21	1.97	0.46
1:8:256:LEU:HD22	1:8:385:VAL:HG12	1.97	0.46
1:AA:271:PHE:HA	1:AA:370:ALA:HB1	1.96	0.46
1:AA:311:ILE:HD11	1:AB:311:ILE:CD1	2.46	0.46
1:AB:260:LEU:HD23	1:AB:381:LEU:HD21	1.97	0.46
1:B:81:LYS:NZ	1:B:129:SER:HB3	2.29	0.46
1:B:377:GLY:O	1:B:380:ARG:HG3	2.16	0.46
1:F:392:LEU:HA	1:F:395:LYS:HZ3	1.79	0.46
1:K:260:LEU:HD23	1:K:381:LEU:HD21	1.97	0.46
1:M:271:PHE:HA	1:M:370:ALA:HB1	1.96	0.46
1:O:221:GLY:HA2	1:O:260:LEU:HD13	1.97	0.46
1:P:377:GLY:O	1:P:380:ARG:HG3	2.16	0.46
1:W:260:LEU:HD23	1:W:381:LEU:HD21	1.97	0.46
1:b:119:ARG:HA	1:b:122:LEU:HD12	1.96	0.46
1:g:119:ARG:HA	1:g:122:LEU:HD12	1.96	0.46
1:j:260:LEU:HD23	1:j:381:LEU:HD21	1.97	0.46
1:q:260:LEU:HD23	1:q:381:LEU:HD21	1.97	0.46
1:x:292:ARG:NH1	1:x:349:VAL:HG22	2.29	0.46
1:z:260:LEU:HD23	1:z:381:LEU:HD21	1.97	0.46
1:1:300:CYS:HB3	1:L:318:LEU:HD21	1.97	0.46
1:2:256:LEU:HD22	1:2:385:VAL:HG12	1.97	0.46
1:5:377:GLY:O	1:5:380:ARG:HG3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:260:LEU:HD23	1:AA:381:LEU:HD21	1.97	0.46
1:K:209:HIS:CD2	1:L:230:ALA:HB2	2.50	0.46
1:K:377:GLY:O	1:K:380:ARG:HG3	2.16	0.46
1:M:221:GLY:HA2	1:M:260:LEU:HD13	1.97	0.46
1:M:329:ILE:HD12	1:M:332:ARG:HH12	1.78	0.46
1:N:256:LEU:HD22	1:N:385:VAL:HG12	1.97	0.46
1:O:230:ALA:HB2	1:P:209:HIS:NE2	2.29	0.46
1:Y:377:GLY:O	1:Y:380:ARG:HG3	2.16	0.46
1:h:271:PHE:HA	1:h:370:ALA:HB1	1.96	0.46
1:k:81:LYS:NZ	1:k:129:SER:HB3	2.29	0.46
1:o:256:LEU:HD22	1:o:385:VAL:HG12	1.97	0.46
1:s:256:LEU:HD22	1:s:385:VAL:HG12	1.97	0.46
1:u:81:LYS:NZ	1:u:129:SER:HB3	2.29	0.46
1:0:377:GLY:O	1:0:380:ARG:HG3	2.16	0.46
1:3:221:GLY:HA2	1:3:260:LEU:HD13	1.97	0.46
1:3:271:PHE:HA	1:3:370:ALA:HB1	1.96	0.46
1:9:377:GLY:O	1:9:380:ARG:HG3	2.16	0.46
1:AB:377:GLY:O	1:AB:380:ARG:HG3	2.16	0.46
1:F:221:GLY:HA2	1:F:260:LEU:HD13	1.97	0.46
1:F:377:GLY:O	1:F:380:ARG:HG3	2.16	0.46
1:I:98:LYS:HG3	1:i:101:PHE:CD2	2.51	0.46
1:I:260:LEU:HD23	1:I:381:LEU:HD21	1.97	0.46
1:I:368:GLY:HA2	1:J:400:TYR:CZ	2.51	0.46
1:P:392:LEU:HD23	1:P:395:LYS:HZ1	1.81	0.46
1:U:260:LEU:HD23	1:U:381:LEU:HD21	1.97	0.46
1:W:392:LEU:HD23	1:W:395:LYS:HZ1	1.81	0.46
1:a:377:GLY:O	1:a:380:ARG:HG3	2.16	0.46
1:b:377:GLY:O	1:b:380:ARG:HG3	2.16	0.46
1:j:377:GLY:O	1:j:380:ARG:HG3	2.16	0.46
1:k:260:LEU:HD23	1:k:381:LEU:HD21	1.97	0.46
1:o:31:THR:HG22	1:o:32:ASP:N	2.30	0.46
1:r:221:GLY:HA2	1:r:260:LEU:HD13	1.97	0.46
1:t:260:LEU:HD23	1:t:381:LEU:HD21	1.97	0.46
1:t:377:GLY:O	1:t:380:ARG:HG3	2.16	0.46
1:w:256:LEU:HD22	1:w:385:VAL:HG12	1.96	0.46
1:2:292:ARG:NH1	1:2:349:VAL:HG22	2.29	0.46
1:3:311:ILE:CD1	1:x:311:ILE:CD1	2.93	0.46
1:3:377:GLY:O	1:3:380:ARG:HG3	2.16	0.46
1:7:256:LEU:HD22	1:7:385:VAL:HG12	1.96	0.46
1:9:221:GLY:HA2	1:9:260:LEU:HD13	1.97	0.46
1:B:256:LEU:HD22	1:B:385:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:377:GLY:O	1:L:380:ARG:HG3	2.16	0.46
1:O:81:LYS:NZ	1:O:129:SER:HB3	2.29	0.46
1:O:227:PHE:HD1	1:P:209:HIS:HB3	1.81	0.46
1:O:256:LEU:HD22	1:O:385:VAL:HG12	1.97	0.46
1:Q:230:ALA:HB2	1:R:209:HIS:CD2	2.50	0.46
1:R:31:THR:HG22	1:R:32:ASP:N	2.30	0.46
1:W:221:GLY:HA2	1:W:260:LEU:HD13	1.97	0.46
1:W:256:LEU:HD22	1:W:385:VAL:HG12	1.96	0.46
1:X:242:THR:HA	1:X:399:SER:HB2	1.98	0.46
1:X:278:TYR:HD2	1:X:367:MET:HE3	1.81	0.46
1:a:221:GLY:HA2	1:a:260:LEU:HD13	1.97	0.46
1:a:260:LEU:HD23	1:a:381:LEU:HD21	1.97	0.46
1:b:242:THR:HA	1:b:399:SER:HB2	1.98	0.46
1:e:242:THR:HA	1:e:399:SER:HB2	1.98	0.46
1:h:377:GLY:O	1:h:380:ARG:HG3	2.16	0.46
1:n:221:GLY:HA2	1:n:260:LEU:HD13	1.97	0.46
1:s:242:THR:HA	1:s:399:SER:HB2	1.98	0.46
1:t:119:ARG:HA	1:t:122:LEU:HD12	1.96	0.46
1:u:260:LEU:HD23	1:u:381:LEU:HD21	1.97	0.46
1:x:119:ARG:HA	1:x:122:LEU:HD12	1.96	0.46
1:y:377:GLY:O	1:y:380:ARG:HG3	2.16	0.46
1:2:31:THR:HG22	1:2:32:ASP:N	2.30	0.46
1:4:260:LEU:HD23	1:4:381:LEU:HD21	1.97	0.46
1:7:377:GLY:O	1:7:380:ARG:HG3	2.16	0.46
1:AA:377:GLY:O	1:AA:380:ARG:HG3	2.16	0.46
1:C:221:GLY:HA2	1:C:260:LEU:HD13	1.97	0.46
1:D:242:THR:HA	1:D:399:SER:HB2	1.98	0.46
1:E:368:GLY:HA2	1:F:400:TYR:CE2	2.50	0.46
1:H:271:PHE:HA	1:H:370:ALA:HB1	1.96	0.46
1:H:278:TYR:HD2	1:H:367:MET:HE3	1.81	0.46
1:H:377:GLY:O	1:H:380:ARG:HG3	2.16	0.46
1:I:242:THR:HA	1:I:399:SER:HB2	1.98	0.46
1:O:31:THR:HG22	1:O:32:ASP:N	2.30	0.46
1:O:242:THR:HA	1:O:399:SER:HB2	1.98	0.46
1:R:260:LEU:HD23	1:R:381:LEU:HD21	1.97	0.46
1:T:377:GLY:O	1:T:380:ARG:HG3	2.16	0.46
1:V:81:LYS:NZ	1:V:129:SER:HB3	2.29	0.46
1:Y:227:PHE:HD1	1:Z:209:HIS:HB3	1.81	0.46
1:Y:242:THR:HA	1:Y:399:SER:HB2	1.98	0.46
1:c:278:TYR:HD2	1:c:367:MET:HE3	1.81	0.46
1:f:242:THR:HA	1:f:399:SER:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:242:THR:HA	1:h:399:SER:HB2	1.98	0.46
1:l:377:GLY:O	1:l:380:ARG:HG3	2.16	0.46
1:s:347:ARG:HD3	1:s:351:ARG:CZ	2.46	0.46
1:t:242:THR:HA	1:t:399:SER:HB2	1.98	0.46
1:u:377:GLY:O	1:u:380:ARG:HG3	2.16	0.46
1:v:377:GLY:O	1:v:380:ARG:HG3	2.16	0.46
1:y:242:THR:HA	1:y:399:SER:HB2	1.98	0.46
1:z:242:THR:HA	1:z:399:SER:HB2	1.98	0.46
1:0:221:GLY:HA2	1:0:260:LEU:HD13	1.97	0.46
1:8:347:ARG:HD3	1:8:351:ARG:CZ	2.46	0.46
1:9:242:THR:HA	1:9:399:SER:HB2	1.98	0.46
1:C:278:TYR:HD2	1:C:367:MET:HE3	1.81	0.46
1:C:347:ARG:HD3	1:C:351:ARG:CZ	2.46	0.46
1:E:242:THR:HA	1:E:399:SER:HB2	1.98	0.46
1:H:242:THR:HA	1:H:399:SER:HB2	1.98	0.46
1:J:242:THR:HA	1:J:399:SER:HB2	1.98	0.46
1:M:242:THR:HA	1:M:399:SER:HB2	1.98	0.46
1:N:260:LEU:HD23	1:N:381:LEU:HD21	1.97	0.46
1:P:256:LEU:HD22	1:P:385:VAL:HG12	1.96	0.46
1:Q:221:GLY:HA2	1:Q:260:LEU:HD13	1.97	0.46
1:U:377:GLY:O	1:U:380:ARG:HG3	2.16	0.46
1:V:307:LYS:HD2	1:V:307:LYS:HA	1.80	0.46
1:V:377:GLY:O	1:V:380:ARG:HG3	2.16	0.46
1:X:256:LEU:HD22	1:X:385:VAL:HG12	1.97	0.46
1:b:260:LEU:HD23	1:b:381:LEU:HD21	1.97	0.46
1:d:377:GLY:O	1:d:380:ARG:HG3	2.16	0.46
1:f:392:LEU:HD23	1:f:395:LYS:HZ1	1.81	0.46
1:m:278:TYR:HD2	1:m:367:MET:HE3	1.81	0.46
1:n:242:THR:HA	1:n:399:SER:HB2	1.98	0.46
1:p:377:GLY:O	1:p:380:ARG:HG3	2.16	0.46
1:r:260:LEU:HD23	1:r:381:LEU:HD21	1.97	0.46
1:v:242:THR:HA	1:v:399:SER:HB2	1.98	0.46
1:z:81:LYS:HZ1	1:z:129:SER:HB3	1.81	0.46
1:z:377:GLY:O	1:z:380:ARG:HG3	2.16	0.46
1:1:227:PHE:HD1	1:2:209:HIS:HB3	1.81	0.46
1:1:242:THR:HA	1:1:399:SER:HB2	1.98	0.46
1:5:371:PHE:HE1	1:6:231:VAL:HG22	1.79	0.46
1:9:260:LEU:HD23	1:9:381:LEU:HD21	1.97	0.46
1:A:278:TYR:HD2	1:A:367:MET:HE3	1.81	0.46
1:A:377:GLY:O	1:A:380:ARG:HG3	2.16	0.46
1:AA:242:THR:HA	1:AA:399:SER:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AB:221:GLY:HA2	1:AB:260:LEU:HD13	1.97	0.46
1:D:347:ARG:HD3	1:D:351:ARG:CZ	2.46	0.46
1:E:368:GLY:CA	1:F:400:TYR:CD2	2.98	0.46
1:G:377:GLY:O	1:G:380:ARG:HG3	2.16	0.46
1:L:256:LEU:HD22	1:L:385:VAL:HG12	1.97	0.46
1:R:347:ARG:HD3	1:R:351:ARG:CZ	2.46	0.46
1:X:72:VAL:HA	1:X:75:ARG:HE	1.81	0.46
1:X:377:GLY:O	1:X:380:ARG:HG3	2.16	0.46
1:d:347:ARG:HD3	1:d:351:ARG:CZ	2.46	0.46
1:e:278:TYR:HD2	1:e:367:MET:HE3	1.81	0.46
1:e:347:ARG:HD3	1:e:351:ARG:CZ	2.46	0.46
1:l:278:TYR:HD2	1:l:367:MET:HE3	1.81	0.46
1:p:221:GLY:HA2	1:p:260:LEU:HD13	1.97	0.46
1:q:72:VAL:HA	1:q:75:ARG:HE	1.81	0.46
1:q:242:THR:HA	1:q:399:SER:HB2	1.98	0.46
1:t:347:ARG:HD3	1:t:351:ARG:CZ	2.46	0.46
1:0:347:ARG:HD3	1:0:351:ARG:CZ	2.46	0.46
1:3:242:THR:HA	1:3:399:SER:HB2	1.98	0.46
1:4:377:GLY:O	1:4:380:ARG:HG3	2.16	0.46
1:8:377:GLY:O	1:8:380:ARG:HG3	2.16	0.46
1:9:278:TYR:HD2	1:9:367:MET:HE3	1.81	0.46
1:AA:72:VAL:HA	1:AA:75:ARG:HE	1.81	0.46
1:G:242:THR:HA	1:G:399:SER:HB2	1.98	0.46
1:I:377:GLY:O	1:I:380:ARG:HG3	2.16	0.46
1:K:81:LYS:HZ1	1:K:129:SER:HB3	1.81	0.46
1:K:256:LEU:HD22	1:K:385:VAL:HG12	1.97	0.46
1:M:260:LEU:HD23	1:M:381:LEU:HD21	1.97	0.46
1:M:347:ARG:HD3	1:M:351:ARG:CZ	2.46	0.46
1:M:377:GLY:O	1:M:380:ARG:HG3	2.16	0.46
1:N:377:GLY:O	1:N:380:ARG:HG3	2.16	0.46
1:O:260:LEU:HD23	1:O:381:LEU:HD21	1.97	0.46
1:R:377:GLY:O	1:R:380:ARG:HG3	2.16	0.46
1:S:221:GLY:HA2	1:S:260:LEU:HD13	1.97	0.46
1:U:347:ARG:HD3	1:U:351:ARG:CZ	2.46	0.46
1:V:278:TYR:HD2	1:V:367:MET:HE3	1.81	0.46
1:a:278:TYR:HD2	1:a:367:MET:HE3	1.81	0.46
1:b:72:VAL:HA	1:b:75:ARG:HE	1.81	0.46
1:c:390:ARG:NH1	1:d:383:ASN:HD21	2.14	0.46
1:g:377:GLY:O	1:g:380:ARG:HG3	2.16	0.46
1:i:377:GLY:O	1:i:380:ARG:HG3	2.16	0.46
1:j:256:LEU:HD22	1:j:385:VAL:HG12	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:377:GLY:O	1:r:380:ARG:HG3	2.16	0.46
1:s:72:VAL:HA	1:s:75:ARG:HE	1.81	0.46
1:t:72:VAL:HA	1:t:75:ARG:HE	1.81	0.46
1:u:242:THR:HA	1:u:399:SER:HB2	1.98	0.46
1:3:227:PHE:HD1	1:4:209:HIS:HB3	1.80	0.46
1:A:221:GLY:HA2	1:A:260:LEU:HD13	1.97	0.46
1:AA:278:TYR:HD2	1:AA:367:MET:HE3	1.81	0.46
1:E:335:LYS:HE2	1:E:335:LYS:HB3	1.81	0.46
1:E:347:ARG:HD3	1:E:351:ARG:CZ	2.46	0.46
1:F:260:LEU:HD23	1:F:381:LEU:HD21	1.97	0.46
1:J:256:LEU:HD22	1:J:385:VAL:HG12	1.97	0.46
1:K:242:THR:HA	1:K:399:SER:HB2	1.98	0.46
1:L:242:THR:HA	1:L:399:SER:HB2	1.98	0.46
1:M:31:THR:HG22	1:M:32:ASP:N	2.30	0.46
1:O:347:ARG:HD3	1:O:351:ARG:CZ	2.46	0.46
1:Q:242:THR:HA	1:Q:399:SER:HB2	1.98	0.46
1:Q:377:GLY:O	1:Q:380:ARG:HG3	2.16	0.46
1:T:242:THR:HA	1:T:399:SER:HB2	1.98	0.46
1:T:278:TYR:HD2	1:T:367:MET:HE3	1.81	0.46
1:U:223:SER:CB	1:V:216:ARG:HG3	2.46	0.46
1:V:347:ARG:HD3	1:V:351:ARG:CZ	2.46	0.46
1:W:335:LYS:HE2	1:W:335:LYS:HB3	1.81	0.46
1:W:377:GLY:O	1:W:380:ARG:HG3	2.16	0.46
1:X:347:ARG:HD3	1:X:351:ARG:CZ	2.46	0.46
1:c:347:ARG:HD3	1:c:351:ARG:CZ	2.46	0.46
1:i:221:GLY:HA2	1:i:260:LEU:HD13	1.97	0.46
1:k:221:GLY:HA2	1:k:260:LEU:HD13	1.97	0.46
1:m:347:ARG:HD3	1:m:351:ARG:CZ	2.46	0.46
1:o:347:ARG:HD3	1:o:351:ARG:CZ	2.46	0.46
1:p:242:THR:HA	1:p:399:SER:HB2	1.98	0.46
1:r:278:TYR:HD2	1:r:367:MET:HE3	1.81	0.46
1:v:278:TYR:HD2	1:v:367:MET:HE3	1.81	0.46
1:0:242:THR:HA	1:0:399:SER:HB2	1.98	0.45
1:3:347:ARG:HD3	1:3:351:ARG:CZ	2.46	0.45
1:4:242:THR:HA	1:4:399:SER:HB2	1.98	0.45
1:5:221:GLY:HA2	1:5:260:LEU:HD13	1.97	0.45
1:5:256:LEU:HD22	1:5:385:VAL:HG12	1.96	0.45
1:6:256:LEU:HD22	1:6:385:VAL:HG12	1.97	0.45
1:7:221:GLY:HA2	1:7:260:LEU:HD13	1.97	0.45
1:7:242:THR:HA	1:7:399:SER:HB2	1.98	0.45
1:8:72:VAL:HA	1:8:75:ARG:HE	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:260:LEU:HD23	1:A:381:LEU:HD21	1.97	0.45
1:AA:347:ARG:HD3	1:AA:351:ARG:CZ	2.46	0.45
1:B:278:TYR:HD2	1:B:367:MET:HE3	1.81	0.45
1:J:377:GLY:O	1:J:380:ARG:HG3	2.16	0.45
1:M:230:ALA:HB2	1:N:209:HIS:NE2	2.31	0.45
1:P:81:LYS:HZ1	1:P:129:SER:HB3	1.81	0.45
1:T:260:LEU:HD23	1:T:381:LEU:HD21	1.97	0.45
1:U:242:THR:HA	1:U:399:SER:HB2	1.98	0.45
1:V:72:VAL:HA	1:V:75:ARG:HE	1.81	0.45
1:V:242:THR:HA	1:V:399:SER:HB2	1.98	0.45
1:W:242:THR:HA	1:W:399:SER:HB2	1.98	0.45
1:a:230:ALA:HB2	1:b:209:HIS:NE2	2.31	0.45
1:b:347:ARG:HD3	1:b:351:ARG:CZ	2.46	0.45
1:e:72:VAL:HA	1:e:75:ARG:HE	1.81	0.45
1:j:347:ARG:HD3	1:j:351:ARG:CZ	2.46	0.45
1:k:377:GLY:O	1:k:380:ARG:HG3	2.16	0.45
1:m:72:VAL:HA	1:m:75:ARG:HE	1.81	0.45
1:m:242:THR:HA	1:m:399:SER:HB2	1.98	0.45
1:m:377:GLY:O	1:m:380:ARG:HG3	2.16	0.45
1:n:223:SER:CB	1:o:216:ARG:HG3	2.46	0.45
1:n:377:GLY:O	1:n:380:ARG:HG3	2.16	0.45
1:o:72:VAL:HA	1:o:75:ARG:HE	1.81	0.45
1:p:278:TYR:HD2	1:p:367:MET:HE3	1.81	0.45
1:q:31:THR:HG22	1:q:32:ASP:N	2.30	0.45
1:q:278:TYR:HD2	1:q:367:MET:HE3	1.81	0.45
1:r:347:ARG:HD3	1:r:351:ARG:CZ	2.46	0.45
1:v:81:LYS:HZ1	1:v:129:SER:HB3	1.81	0.45
1:x:377:GLY:O	1:x:380:ARG:HG3	2.16	0.45
1:5:242:THR:HA	1:5:399:SER:HB2	1.98	0.45
1:6:347:ARG:HD3	1:6:351:ARG:CZ	2.46	0.45
1:8:242:THR:HA	1:8:399:SER:HB2	1.98	0.45
1:AB:278:TYR:HD2	1:AB:367:MET:HE3	1.81	0.45
1:C:242:THR:HA	1:C:399:SER:HB2	1.98	0.45
1:C:260:LEU:HD23	1:C:381:LEU:HD21	1.97	0.45
1:C:377:GLY:O	1:C:380:ARG:HG3	2.16	0.45
1:D:72:VAL:HA	1:D:75:ARG:HE	1.81	0.45
1:E:278:TYR:HD2	1:E:367:MET:HE3	1.81	0.45
1:G:72:VAL:HA	1:G:75:ARG:HE	1.81	0.45
1:G:347:ARG:HD3	1:G:351:ARG:CZ	2.46	0.45
1:H:260:LEU:HD23	1:H:381:LEU:HD21	1.97	0.45
1:J:347:ARG:HD3	1:J:351:ARG:CZ	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:377:GLY:O	1:O:380:ARG:HG3	2.16	0.45
1:P:242:THR:HA	1:P:399:SER:HB2	1.98	0.45
1:P:347:ARG:HD3	1:P:351:ARG:CZ	2.46	0.45
1:S:242:THR:HA	1:S:399:SER:HB2	1.98	0.45
1:T:72:VAL:HA	1:T:75:ARG:HE	1.81	0.45
1:W:347:ARG:HD3	1:W:351:ARG:CZ	2.46	0.45
1:Y:278:TYR:HD2	1:Y:367:MET:HE3	1.81	0.45
1:Z:242:THR:HA	1:Z:399:SER:HB2	1.98	0.45
1:Z:260:LEU:HD23	1:Z:381:LEU:HD21	1.97	0.45
1:c:377:GLY:O	1:c:380:ARG:HG3	2.16	0.45
1:e:377:GLY:O	1:e:380:ARG:HG3	2.16	0.45
1:f:72:VAL:HA	1:f:75:ARG:HE	1.81	0.45
1:h:260:LEU:HD23	1:h:381:LEU:HD21	1.97	0.45
1:h:382:ALA:CB	1:i:386:ALA:HB2	2.46	0.45
1:i:72:VAL:HA	1:i:75:ARG:HE	1.81	0.45
1:l:260:LEU:HD23	1:l:381:LEU:HD21	1.97	0.45
1:o:242:THR:HA	1:o:399:SER:HB2	1.98	0.45
1:o:278:TYR:HD2	1:o:367:MET:HE3	1.81	0.45
1:s:278:TYR:HD2	1:s:367:MET:HE3	1.81	0.45
1:w:242:THR:HA	1:w:399:SER:HB2	1.98	0.45
1:AB:242:THR:HA	1:AB:399:SER:HB2	1.98	0.45
1:AB:254:GLU:OE1	1:b:63:ILE:HD13	2.16	0.45
1:AB:347:ARG:HD3	1:AB:351:ARG:CZ	2.46	0.45
1:B:260:LEU:HD23	1:B:381:LEU:HD21	1.97	0.45
1:B:347:ARG:HD3	1:B:351:ARG:CZ	2.46	0.45
1:D:377:GLY:O	1:D:380:ARG:HG3	2.16	0.45
1:M:227:PHE:HD1	1:N:209:HIS:HB3	1.81	0.45
1:S:347:ARG:HD3	1:S:351:ARG:CZ	2.46	0.45
1:Z:377:GLY:O	1:Z:380:ARG:HG3	2.16	0.45
1:d:260:LEU:HD23	1:d:381:LEU:HD21	1.97	0.45
1:f:377:GLY:O	1:f:380:ARG:HG3	2.16	0.45
1:g:347:ARG:HD3	1:g:351:ARG:CZ	2.46	0.45
1:k:242:THR:HA	1:k:399:SER:HB2	1.98	0.45
1:k:347:ARG:HD3	1:k:351:ARG:CZ	2.46	0.45
1:r:242:THR:HA	1:r:399:SER:HB2	1.98	0.45
1:v:347:ARG:HD3	1:v:351:ARG:CZ	2.46	0.45
1:0:31:THR:HG22	1:0:32:ASP:N	2.30	0.45
1:1:278:TYR:HD2	1:1:367:MET:HE3	1.81	0.45
1:2:347:ARG:HD3	1:2:351:ARG:CZ	2.46	0.45
1:E:72:VAL:HA	1:E:75:ARG:HE	1.81	0.45
1:E:377:GLY:O	1:E:380:ARG:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:347:ARG:HD3	1:F:351:ARG:CZ	2.46	0.45
1:H:35:LYS:HA	1:H:44:ILE:HA	1.99	0.45
1:K:347:ARG:HD3	1:K:351:ARG:CZ	2.46	0.45
1:S:377:GLY:O	1:S:380:ARG:HG3	2.16	0.45
1:U:31:THR:HG22	1:U:32:ASP:N	2.30	0.45
1:Z:347:ARG:HD3	1:Z:351:ARG:CZ	2.46	0.45
1:d:278:TYR:HD2	1:d:367:MET:HE3	1.81	0.45
1:h:347:ARG:HD3	1:h:351:ARG:CZ	2.46	0.45
1:j:392:LEU:HD23	1:j:395:LYS:HZ1	1.82	0.45
1:k:31:THR:HG22	1:k:32:ASP:N	2.30	0.45
1:o:377:GLY:O	1:o:380:ARG:HG3	2.16	0.45
1:r:31:THR:HG22	1:r:32:ASP:N	2.30	0.45
1:x:347:ARG:HD3	1:x:351:ARG:CZ	2.46	0.45
1:0:260:LEU:HD23	1:0:381:LEU:HD21	1.97	0.45
1:1:230:ALA:HB2	1:2:209:HIS:NE2	2.31	0.45
1:1:347:ARG:HD3	1:1:351:ARG:CZ	2.46	0.45
1:8:335:LYS:HE2	1:8:335:LYS:HB3	1.81	0.45
1:B:392:LEU:HD23	1:B:395:LYS:HZ1	1.82	0.45
1:D:35:LYS:HA	1:D:44:ILE:HA	1.99	0.45
1:H:72:VAL:HA	1:H:75:ARG:HE	1.81	0.45
1:I:347:ARG:HD3	1:I:351:ARG:CZ	2.46	0.45
1:I:400:TYR:CD2	1:J:368:GLY:HA2	2.51	0.45
1:R:72:VAL:HA	1:R:75:ARG:HE	1.81	0.45
1:R:242:THR:HA	1:R:399:SER:HB2	1.98	0.45
1:W:35:LYS:HA	1:W:44:ILE:HA	1.99	0.45
1:a:242:THR:HA	1:a:399:SER:HB2	1.98	0.45
1:a:347:ARG:HD3	1:a:351:ARG:CZ	2.46	0.45
1:b:278:TYR:HD2	1:b:367:MET:HE3	1.81	0.45
1:c:31:THR:HG22	1:c:32:ASP:N	2.30	0.45
1:c:400:TYR:CD2	1:d:368:GLY:HA2	2.51	0.45
1:h:31:THR:HG22	1:h:32:ASP:N	2.30	0.45
1:k:35:LYS:HA	1:k:44:ILE:HA	1.99	0.45
1:l:72:VAL:HA	1:l:75:ARG:HE	1.81	0.45
1:s:377:GLY:O	1:s:380:ARG:HG3	2.16	0.45
1:t:35:LYS:HA	1:t:44:ILE:HA	1.99	0.45
1:u:347:ARG:HD3	1:u:351:ARG:CZ	2.46	0.45
1:z:31:THR:HG22	1:z:32:ASP:N	2.30	0.45
1:3:278:TYR:HD2	1:3:367:MET:HE3	1.81	0.45
1:7:35:LYS:HA	1:7:44:ILE:HA	1.99	0.45
1:9:35:LYS:HA	1:9:44:ILE:HA	1.99	0.45
1:9:347:ARG:HD3	1:9:351:ARG:CZ	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:THR:HA	1:A:399:SER:HB2	1.98	0.45
1:A:347:ARG:HD3	1:A:351:ARG:CZ	2.46	0.45
1:AB:72:VAL:HA	1:AB:75:ARG:HE	1.81	0.45
1:B:31:THR:HG22	1:B:32:ASP:N	2.30	0.45
1:B:221:GLY:HA2	1:B:260:LEU:HD13	1.97	0.45
1:C:72:VAL:HA	1:C:75:ARG:HE	1.82	0.45
1:F:242:THR:HA	1:F:399:SER:HB2	1.98	0.45
1:G:35:LYS:HA	1:G:44:ILE:HA	1.99	0.45
1:K:72:VAL:HA	1:K:75:ARG:HE	1.81	0.45
1:L:347:ARG:HD3	1:L:351:ARG:CZ	2.46	0.45
1:P:72:VAL:HA	1:P:75:ARG:HE	1.81	0.45
1:Q:347:ARG:HD3	1:Q:351:ARG:CZ	2.46	0.45
1:R:278:TYR:HD2	1:R:367:MET:HE3	1.81	0.45
1:T:31:THR:HG22	1:T:32:ASP:N	2.30	0.45
1:T:347:ARG:HD3	1:T:351:ARG:CZ	2.46	0.45
1:U:35:LYS:HA	1:U:44:ILE:HA	1.99	0.45
1:U:72:VAL:HA	1:U:75:ARG:HE	1.81	0.45
1:V:309:LYS:HB3	1:V:309:LYS:HE3	1.85	0.45
1:X:35:LYS:HA	1:X:44:ILE:HA	1.99	0.45
1:a:72:VAL:HA	1:a:75:ARG:HE	1.81	0.45
1:a:227:PHE:HD1	1:b:209:HIS:HB3	1.81	0.45
1:c:221:GLY:HA2	1:c:260:LEU:HD13	1.97	0.45
1:e:35:LYS:HA	1:e:44:ILE:HA	1.99	0.45
1:f:278:TYR:HD2	1:f:367:MET:HE3	1.81	0.45
1:n:35:LYS:HA	1:n:44:ILE:HA	1.99	0.45
1:n:72:VAL:HA	1:n:75:ARG:HE	1.81	0.45
1:n:392:LEU:HD23	1:n:395:LYS:HZ1	1.82	0.45
1:o:35:LYS:HA	1:o:44:ILE:HA	1.99	0.45
1:p:347:ARG:HD3	1:p:351:ARG:CZ	2.46	0.45
1:r:35:LYS:HA	1:r:44:ILE:HA	1.99	0.45
1:r:72:VAL:HA	1:r:75:ARG:HE	1.81	0.45
1:s:35:LYS:HA	1:s:44:ILE:HA	1.99	0.45
1:u:35:LYS:HA	1:u:44:ILE:HA	1.99	0.45
1:u:72:VAL:HA	1:u:75:ARG:HE	1.81	0.45
1:w:347:ARG:HD3	1:w:351:ARG:CZ	2.46	0.45
1:x:242:THR:HA	1:x:399:SER:HB2	1.98	0.45
1:x:256:LEU:HD22	1:x:385:VAL:HG12	1.96	0.45
1:2:377:GLY:O	1:2:380:ARG:HG3	2.16	0.45
1:5:35:LYS:HA	1:5:44:ILE:HA	1.99	0.45
1:6:72:VAL:HA	1:6:75:ARG:HE	1.82	0.45
1:A:35:LYS:HA	1:A:44:ILE:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:35:LYS:HA	1:AA:44:ILE:HA	1.99	0.45
1:C:227:PHE:HD1	1:D:209:HIS:HB3	1.81	0.45
1:E:35:LYS:HA	1:E:44:ILE:HA	1.99	0.45
1:G:392:LEU:HD23	1:G:395:LYS:HZ1	1.81	0.45
1:N:242:THR:HA	1:N:399:SER:HB2	1.98	0.45
1:S:35:LYS:HA	1:S:44:ILE:HA	1.99	0.45
1:V:35:LYS:HA	1:V:44:ILE:HA	1.99	0.45
1:X:81:LYS:HZ1	1:X:129:SER:HB3	1.82	0.45
1:Z:72:VAL:HA	1:Z:75:ARG:HE	1.81	0.45
1:Z:81:LYS:HZ1	1:Z:129:SER:HB3	1.82	0.45
1:a:35:LYS:HA	1:a:44:ILE:HA	1.99	0.45
1:b:35:LYS:HA	1:b:44:ILE:HA	1.99	0.45
1:c:35:LYS:HA	1:c:44:ILE:HA	1.99	0.45
1:c:379:ALA:HB2	1:d:389:TRP:CB	2.46	0.45
1:d:242:THR:HA	1:d:399:SER:HB2	1.98	0.45
1:g:35:LYS:HA	1:g:44:ILE:HA	1.99	0.45
1:g:260:LEU:HD23	1:g:381:LEU:HD21	1.97	0.45
1:g:318:LEU:HD21	1:h:182:VAL:HG21	1.99	0.45
1:l:242:THR:HA	1:l:399:SER:HB2	1.98	0.45
1:n:278:TYR:HD2	1:n:367:MET:HE3	1.81	0.45
1:q:35:LYS:HA	1:q:44:ILE:HA	1.99	0.45
1:q:347:ARG:HD3	1:q:351:ARG:CZ	2.46	0.45
1:v:72:VAL:HA	1:v:75:ARG:HE	1.81	0.45
1:x:72:VAL:HA	1:x:75:ARG:HE	1.81	0.45
1:y:72:VAL:HA	1:y:75:ARG:HE	1.81	0.45
1:z:307:LYS:HA	1:z:307:LYS:HD2	1.80	0.45
1:z:347:ARG:HD3	1:z:351:ARG:CZ	2.46	0.45
1:0:35:LYS:HA	1:0:44:ILE:HA	1.99	0.45
1:2:242:THR:HA	1:2:399:SER:HB2	1.98	0.45
1:3:31:THR:HG22	1:3:32:ASP:N	2.30	0.45
1:4:72:VAL:HA	1:4:75:ARG:HE	1.81	0.45
1:4:347:ARG:HD3	1:4:351:ARG:CZ	2.46	0.45
1:5:347:ARG:HD3	1:5:351:ARG:CZ	2.46	0.45
1:6:377:GLY:O	1:6:380:ARG:HG3	2.16	0.45
1:9:72:VAL:HA	1:9:75:ARG:HE	1.81	0.45
1:C:35:LYS:HA	1:C:44:ILE:HA	1.99	0.45
1:F:35:LYS:HA	1:F:44:ILE:HA	1.99	0.45
1:L:35:LYS:HA	1:L:44:ILE:HA	1.99	0.45
1:L:72:VAL:HA	1:L:75:ARG:HE	1.81	0.45
1:O:220:LEU:HD22	1:P:220:LEU:HD22	1.99	0.45
1:Q:278:TYR:HD2	1:Q:367:MET:HE3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:307:LYS:HA	1:R:307:LYS:HD2	1.80	0.45
1:W:72:VAL:HA	1:W:75:ARG:HE	1.81	0.45
1:Y:220:LEU:HD22	1:Z:220:LEU:HD22	1.99	0.45
1:c:242:THR:HA	1:c:399:SER:HB2	1.98	0.45
1:c:260:LEU:HD23	1:c:381:LEU:HD21	1.97	0.45
1:f:35:LYS:HA	1:f:44:ILE:HA	1.99	0.45
1:g:72:VAL:HA	1:g:75:ARG:HE	1.81	0.45
1:i:242:THR:HA	1:i:399:SER:HB2	1.98	0.45
1:i:335:LYS:HE2	1:i:335:LYS:HB3	1.81	0.45
1:j:242:THR:HA	1:j:399:SER:HB2	1.98	0.45
1:n:335:LYS:HE2	1:n:335:LYS:HB3	1.81	0.45
1:o:307:LYS:HA	1:o:307:LYS:HD2	1.80	0.45
1:p:35:LYS:HA	1:p:44:ILE:HA	1.99	0.45
1:p:72:VAL:HA	1:p:75:ARG:HE	1.81	0.45
1:q:377:GLY:O	1:q:380:ARG:HG3	2.16	0.45
1:r:230:ALA:HB2	1:s:209:HIS:NE2	2.31	0.45
1:w:72:VAL:HA	1:w:75:ARG:HE	1.81	0.45
1:1:35:LYS:HA	1:1:44:ILE:HA	1.99	0.45
1:3:35:LYS:HA	1:3:44:ILE:HA	1.99	0.45
1:4:31:THR:HG22	1:4:32:ASP:N	2.30	0.45
1:6:242:THR:HA	1:6:399:SER:HB2	1.98	0.45
1:6:335:LYS:HE2	1:6:335:LYS:HB3	1.81	0.45
1:8:35:LYS:HA	1:8:44:ILE:HA	1.99	0.45
1:B:35:LYS:HA	1:B:44:ILE:HA	1.99	0.45
1:D:278:TYR:HD2	1:D:367:MET:HE3	1.81	0.45
1:I:31:THR:HG22	1:I:32:ASP:N	2.30	0.45
1:I:35:LYS:HA	1:I:44:ILE:HA	1.99	0.45
1:Y:347:ARG:HD3	1:Y:351:ARG:CZ	2.46	0.45
1:c:400:TYR:CD2	1:d:368:GLY:CA	3.00	0.45
1:h:72:VAL:HA	1:h:75:ARG:HE	1.81	0.45
1:i:35:LYS:HA	1:i:44:ILE:HA	1.99	0.45
1:j:72:VAL:HA	1:j:75:ARG:HE	1.81	0.45
1:j:307:LYS:HA	1:j:307:LYS:HD2	1.80	0.45
1:k:368:GLY:HA2	1:l:400:TYR:CE1	2.52	0.45
1:s:145:ARG:HD3	1:s:145:ARG:HA	1.84	0.45
1:v:35:LYS:HA	1:v:44:ILE:HA	1.99	0.45
1:y:307:LYS:HA	1:y:307:LYS:HD2	1.80	0.45
1:z:72:VAL:HA	1:z:75:ARG:HE	1.81	0.45
1:0:72:VAL:HA	1:0:75:ARG:HE	1.81	0.45
1:2:260:LEU:HD23	1:2:381:LEU:HD21	1.97	0.45
1:6:278:TYR:HD2	1:6:367:MET:HE3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:278:TYR:HD2	1:7:367:MET:HE3	1.81	0.45
1:7:347:ARG:HD3	1:7:351:ARG:CZ	2.46	0.45
1:C:31:THR:HG22	1:C:32:ASP:N	2.30	0.45
1:G:278:TYR:HD2	1:G:367:MET:HE3	1.81	0.45
1:H:31:THR:HG22	1:H:32:ASP:N	2.30	0.45
1:H:347:ARG:HD3	1:H:351:ARG:CZ	2.46	0.45
1:I:368:GLY:CA	1:J:400:TYR:CG	3.00	0.45
1:J:116:PHE:O	1:J:120:ILE:HG12	2.17	0.45
1:L:288:THR:O	1:L:291:GLU:HG3	2.18	0.45
1:N:72:VAL:HA	1:N:75:ARG:HE	1.81	0.45
1:N:307:LYS:HD2	1:N:307:LYS:HA	1.80	0.45
1:N:347:ARG:HD3	1:N:351:ARG:CZ	2.46	0.45
1:Q:35:LYS:HA	1:Q:44:ILE:HA	1.99	0.45
1:T:35:LYS:HA	1:T:44:ILE:HA	1.99	0.45
1:U:392:LEU:HD23	1:U:395:LYS:HZ1	1.82	0.45
1:d:35:LYS:HA	1:d:44:ILE:HA	1.99	0.45
1:f:347:ARG:HD3	1:f:351:ARG:CZ	2.46	0.45
1:h:35:LYS:HA	1:h:44:ILE:HA	1.99	0.45
1:i:116:PHE:O	1:i:120:ILE:HG12	2.17	0.45
1:m:35:LYS:HA	1:m:44:ILE:HA	1.99	0.45
1:z:278:TYR:HD2	1:z:367:MET:HE3	1.81	0.45
1:2:72:VAL:HA	1:2:75:ARG:HE	1.81	0.44
1:8:278:TYR:HD2	1:8:367:MET:HE3	1.81	0.44
1:9:31:THR:HG22	1:9:32:ASP:N	2.30	0.44
1:A:72:VAL:HA	1:A:75:ARG:HE	1.81	0.44
1:AA:81:LYS:HZ1	1:AA:129:SER:HB3	1.82	0.44
1:AA:288:THR:O	1:AA:291:GLU:HG3	2.18	0.44
1:AB:35:LYS:HA	1:AB:44:ILE:HA	1.99	0.44
1:E:309:LYS:HB3	1:E:309:LYS:HE3	1.85	0.44
1:F:72:VAL:HA	1:F:75:ARG:HE	1.81	0.44
1:I:288:THR:O	1:I:291:GLU:HG3	2.18	0.44
1:K:35:LYS:HA	1:K:44:ILE:HA	1.99	0.44
1:M:35:LYS:HA	1:M:44:ILE:HA	1.99	0.44
1:S:116:PHE:O	1:S:120:ILE:HG12	2.18	0.44
1:S:278:TYR:HD2	1:S:367:MET:HE3	1.81	0.44
1:W:278:TYR:HD2	1:W:367:MET:HE3	1.81	0.44
1:X:116:PHE:O	1:X:120:ILE:HG12	2.17	0.44
1:Y:116:PHE:O	1:Y:120:ILE:HG12	2.18	0.44
1:b:288:THR:O	1:b:291:GLU:HG3	2.18	0.44
1:f:372:HIS:NE2	1:g:397:GLU:OE2	2.51	0.44
1:l:35:LYS:HA	1:l:44:ILE:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:347:ARG:HD3	1:l:351:ARG:CZ	2.46	0.44
1:r:288:THR:O	1:r:291:GLU:HG3	2.17	0.44
1:x:278:TYR:HD2	1:x:367:MET:HE3	1.81	0.44
1:y:347:ARG:HD3	1:y:351:ARG:CZ	2.46	0.44
1:1:72:VAL:HA	1:1:75:ARG:HE	1.81	0.44
1:4:116:PHE:O	1:4:120:ILE:HG12	2.18	0.44
1:6:35:LYS:HA	1:6:44:ILE:HA	1.99	0.44
1:C:116:PHE:O	1:C:120:ILE:HG12	2.17	0.44
1:I:72:VAL:HA	1:I:75:ARG:HE	1.81	0.44
1:I:98:LYS:HG3	1:i:101:PHE:CE2	2.53	0.44
1:J:35:LYS:HA	1:J:44:ILE:HA	1.99	0.44
1:J:288:THR:O	1:J:291:GLU:HG3	2.18	0.44
1:L:307:LYS:HA	1:L:307:LYS:HD2	1.80	0.44
1:M:278:TYR:HD2	1:M:367:MET:HE3	1.81	0.44
1:O:288:THR:O	1:O:291:GLU:HG3	2.18	0.44
1:S:31:THR:HG22	1:S:32:ASP:N	2.30	0.44
1:V:116:PHE:O	1:V:120:ILE:HG12	2.18	0.44
1:b:335:LYS:HE2	1:b:335:LYS:HB3	1.81	0.44
1:h:288:THR:O	1:h:291:GLU:HG3	2.18	0.44
1:i:347:ARG:HD3	1:i:351:ARG:CZ	2.46	0.44
1:n:288:THR:O	1:n:291:GLU:HG3	2.17	0.44
1:n:347:ARG:HD3	1:n:351:ARG:CZ	2.46	0.44
1:o:116:PHE:O	1:o:120:ILE:HG12	2.18	0.44
1:p:288:THR:O	1:p:291:GLU:HG3	2.18	0.44
1:u:116:PHE:O	1:u:120:ILE:HG12	2.18	0.44
1:v:392:LEU:HD23	1:v:395:LYS:HZ1	1.82	0.44
1:w:81:LYS:HZ1	1:w:129:SER:HB3	1.82	0.44
1:y:116:PHE:O	1:y:120:ILE:HG12	2.18	0.44
1:z:288:THR:O	1:z:291:GLU:HG3	2.18	0.44
1:0:278:TYR:HD2	1:0:367:MET:HE3	1.81	0.44
1:1:116:PHE:O	1:1:120:ILE:HG12	2.18	0.44
1:2:116:PHE:O	1:2:120:ILE:HG12	2.18	0.44
1:2:288:THR:O	1:2:291:GLU:HG3	2.18	0.44
1:3:72:VAL:HA	1:3:75:ARG:HE	1.81	0.44
1:3:288:THR:O	1:3:291:GLU:HG3	2.18	0.44
1:5:278:TYR:HD2	1:5:367:MET:HE3	1.81	0.44
1:8:307:LYS:HA	1:8:307:LYS:HD2	1.80	0.44
1:B:242:THR:HA	1:B:399:SER:HB2	1.98	0.44
1:C:220:LEU:HD22	1:D:220:LEU:HD22	1.99	0.44
1:C:288:THR:O	1:C:291:GLU:HG3	2.18	0.44
1:F:77:ARG:HE	1:F:80:GLU:CD	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:77:ARG:HE	1:H:80:GLU:CD	2.26	0.44
1:H:288:THR:O	1:H:291:GLU:HG3	2.18	0.44
1:I:278:TYR:HD2	1:I:367:MET:HE3	1.81	0.44
1:J:72:VAL:HA	1:J:75:ARG:HE	1.81	0.44
1:K:77:ARG:HE	1:K:80:GLU:CD	2.26	0.44
1:M:72:VAL:HA	1:M:75:ARG:HE	1.81	0.44
1:Q:116:PHE:O	1:Q:120:ILE:HG12	2.18	0.44
1:S:77:ARG:HE	1:S:80:GLU:CD	2.26	0.44
1:S:230:ALA:HB2	1:T:209:HIS:NE2	2.32	0.44
1:W:81:LYS:HZ1	1:W:129:SER:HB3	1.82	0.44
1:Y:35:LYS:HA	1:Y:44:ILE:HA	1.99	0.44
1:c:72:VAL:HA	1:c:75:ARG:HE	1.81	0.44
1:i:278:TYR:HD2	1:i:367:MET:HE3	1.81	0.44
1:j:335:LYS:HE2	1:j:335:LYS:HB3	1.81	0.44
1:k:77:ARG:HE	1:k:80:GLU:CD	2.26	0.44
1:k:116:PHE:O	1:k:120:ILE:HG12	2.17	0.44
1:k:278:TYR:HD2	1:k:367:MET:HE3	1.81	0.44
1:l:288:THR:O	1:l:291:GLU:HG3	2.18	0.44
1:p:77:ARG:HE	1:p:80:GLU:CD	2.26	0.44
1:q:116:PHE:O	1:q:120:ILE:HG12	2.18	0.44
1:r:227:PHE:HD1	1:s:209:HIS:HB3	1.81	0.44
1:t:77:ARG:HE	1:t:80:GLU:CD	2.26	0.44
1:t:278:TYR:HD2	1:t:367:MET:HE3	1.81	0.44
1:v:335:LYS:HE2	1:v:335:LYS:HB3	1.81	0.44
1:x:288:THR:O	1:x:291:GLU:HG3	2.18	0.44
1:3:307:LYS:HD2	1:3:307:LYS:HA	1.80	0.44
1:3:371:PHE:CE2	1:4:234:LEU:HD23	2.53	0.44
1:4:35:LYS:HA	1:4:44:ILE:HA	1.99	0.44
1:6:77:ARG:HE	1:6:80:GLU:CD	2.26	0.44
1:7:116:PHE:O	1:7:120:ILE:HG12	2.18	0.44
1:8:77:ARG:HE	1:8:80:GLU:CD	2.26	0.44
1:9:77:ARG:HE	1:9:80:GLU:CD	2.26	0.44
1:A:31:THR:HG22	1:A:32:ASP:N	2.30	0.44
1:A:116:PHE:O	1:A:120:ILE:HG12	2.18	0.44
1:C:77:ARG:HE	1:C:80:GLU:CD	2.26	0.44
1:D:116:PHE:O	1:D:120:ILE:HG12	2.18	0.44
1:G:230:ALA:HB2	1:H:209:HIS:NE2	2.32	0.44
1:K:31:THR:HG22	1:K:32:ASP:N	2.30	0.44
1:M:288:THR:O	1:M:291:GLU:HG3	2.18	0.44
1:N:116:PHE:O	1:N:120:ILE:HG12	2.18	0.44
1:N:335:LYS:HE2	1:N:335:LYS:HB3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:35:LYS:HA	1:O:44:ILE:HA	1.99	0.44
1:O:72:VAL:HA	1:O:75:ARG:HE	1.82	0.44
1:O:81:LYS:HZ1	1:O:129:SER:HB3	1.82	0.44
1:P:77:ARG:HE	1:P:80:GLU:CD	2.26	0.44
1:P:288:THR:O	1:P:291:GLU:HG3	2.18	0.44
1:R:35:LYS:HA	1:R:44:ILE:HA	1.99	0.44
1:T:116:PHE:O	1:T:120:ILE:HG12	2.18	0.44
1:X:77:ARG:HE	1:X:80:GLU:CD	2.26	0.44
1:Y:77:ARG:HE	1:Y:80:GLU:CD	2.26	0.44
1:b:77:ARG:HE	1:b:80:GLU:CD	2.26	0.44
1:b:116:PHE:O	1:b:120:ILE:HG12	2.18	0.44
1:c:116:PHE:O	1:c:120:ILE:HG12	2.18	0.44
1:d:116:PHE:O	1:d:120:ILE:HG12	2.17	0.44
1:f:116:PHE:O	1:f:120:ILE:HG12	2.17	0.44
1:o:77:ARG:HE	1:o:80:GLU:CD	2.26	0.44
1:q:77:ARG:HE	1:q:80:GLU:CD	2.26	0.44
1:q:309:LYS:HB3	1:q:309:LYS:HE3	1.85	0.44
1:r:116:PHE:O	1:r:120:ILE:HG12	2.18	0.44
1:t:116:PHE:O	1:t:120:ILE:HG12	2.17	0.44
1:t:335:LYS:HE2	1:t:335:LYS:HB3	1.81	0.44
1:t:368:GLY:HA2	1:u:400:TYR:CE1	2.52	0.44
1:u:77:ARG:HE	1:u:80:GLU:CD	2.26	0.44
1:u:145:ARG:HA	1:u:145:ARG:HD3	1.84	0.44
1:w:35:LYS:HA	1:w:44:ILE:HA	1.99	0.44
1:x:35:LYS:HA	1:x:44:ILE:HA	1.99	0.44
1:z:35:LYS:HA	1:z:44:ILE:HA	1.99	0.44
1:1:77:ARG:HE	1:1:80:GLU:CD	2.26	0.44
1:1:288:THR:O	1:1:291:GLU:HG3	2.18	0.44
1:3:116:PHE:O	1:3:120:ILE:HG12	2.18	0.44
1:4:288:THR:O	1:4:291:GLU:HG3	2.18	0.44
1:7:230:ALA:HB2	1:8:209:HIS:NE2	2.32	0.44
1:D:288:THR:O	1:D:291:GLU:HG3	2.18	0.44
1:G:77:ARG:HE	1:G:80:GLU:CD	2.26	0.44
1:G:116:PHE:O	1:G:120:ILE:HG12	2.18	0.44
1:J:278:TYR:HD2	1:J:367:MET:HE3	1.81	0.44
1:K:288:THR:O	1:K:291:GLU:HG3	2.18	0.44
1:N:31:THR:HG22	1:N:32:ASP:N	2.30	0.44
1:Q:77:ARG:HE	1:Q:80:GLU:CD	2.26	0.44
1:R:77:ARG:HE	1:R:80:GLU:CD	2.26	0.44
1:R:288:THR:O	1:R:291:GLU:HG3	2.18	0.44
1:U:278:TYR:HD2	1:U:367:MET:HE3	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:288:THR:O	1:U:291:GLU:HG3	2.18	0.44
1:V:81:LYS:HZ1	1:V:129:SER:HB3	1.82	0.44
1:W:31:THR:HG22	1:W:32:ASP:N	2.30	0.44
1:W:288:THR:O	1:W:291:GLU:HG3	2.18	0.44
1:X:288:THR:O	1:X:291:GLU:HG3	2.18	0.44
1:Y:72:VAL:HA	1:Y:75:ARG:HE	1.82	0.44
1:c:288:THR:O	1:c:291:GLU:HG3	2.18	0.44
1:d:72:VAL:HA	1:d:75:ARG:HE	1.81	0.44
1:e:81:LYS:HZ1	1:e:129:SER:HB3	1.82	0.44
1:f:390:ARG:NH1	1:g:383:ASN:HD21	2.16	0.44
1:i:77:ARG:HE	1:i:80:GLU:CD	2.26	0.44
1:j:77:ARG:HE	1:j:80:GLU:CD	2.26	0.44
1:l:31:THR:HG22	1:l:32:ASP:N	2.30	0.44
1:m:307:LYS:HA	1:m:307:LYS:HD2	1.80	0.44
1:n:77:ARG:HE	1:n:80:GLU:CD	2.26	0.44
1:p:116:PHE:O	1:p:120:ILE:HG12	2.17	0.44
1:r:392:LEU:HD23	1:r:395:LYS:HZ1	1.83	0.44
1:v:77:ARG:HE	1:v:80:GLU:CD	2.26	0.44
1:v:116:PHE:O	1:v:120:ILE:HG12	2.18	0.44
1:w:77:ARG:HE	1:w:80:GLU:CD	2.26	0.44
1:0:77:ARG:HE	1:0:80:GLU:CD	2.26	0.44
1:4:77:ARG:HE	1:4:80:GLU:CD	2.26	0.44
1:5:72:VAL:HA	1:5:75:ARG:HE	1.81	0.44
1:5:288:THR:O	1:5:291:GLU:HG3	2.17	0.44
1:6:307:LYS:HD2	1:6:307:LYS:HA	1.80	0.44
1:9:116:PHE:O	1:9:120:ILE:HG12	2.18	0.44
1:A:182:VAL:HG21	1:X:318:LEU:HG	1.99	0.44
1:AA:311:ILE:HD11	1:AB:311:ILE:HD11	1.99	0.44
1:E:77:ARG:HE	1:E:80:GLU:CD	2.26	0.44
1:H:116:PHE:O	1:H:120:ILE:HG12	2.17	0.44
1:J:31:THR:HG22	1:J:32:ASP:N	2.30	0.44
1:J:77:ARG:HE	1:J:80:GLU:CD	2.26	0.44
1:L:116:PHE:O	1:L:120:ILE:HG12	2.18	0.44
1:N:77:ARG:HE	1:N:80:GLU:CD	2.26	0.44
1:P:35:LYS:HA	1:P:44:ILE:HA	1.99	0.44
1:P:116:PHE:O	1:P:120:ILE:HG12	2.18	0.44
1:Q:72:VAL:HA	1:Q:75:ARG:HE	1.81	0.44
1:Q:309:LYS:HB3	1:Q:309:LYS:HE3	1.85	0.44
1:Q:368:GLY:HA2	1:R:400:TYR:CE1	2.53	0.44
1:R:116:PHE:O	1:R:120:ILE:HG12	2.18	0.44
1:S:288:THR:O	1:S:291:GLU:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:288:THR:O	1:Y:291:GLU:HG3	2.18	0.44
1:Y:307:LYS:HA	1:Y:307:LYS:HD2	1.80	0.44
1:Z:35:LYS:HA	1:Z:44:ILE:HA	1.99	0.44
1:d:31:THR:HG22	1:d:32:ASP:N	2.30	0.44
1:e:77:ARG:HE	1:e:80:GLU:CD	2.26	0.44
1:f:335:LYS:HE2	1:f:335:LYS:HB3	1.81	0.44
1:g:77:ARG:HE	1:g:80:GLU:CD	2.26	0.44
1:k:72:VAL:HA	1:k:75:ARG:HE	1.81	0.44
1:k:288:THR:O	1:k:291:GLU:HG3	2.18	0.44
1:l:116:PHE:O	1:l:120:ILE:HG12	2.18	0.44
1:q:229:LYS:HE3	1:q:229:LYS:HB3	1.86	0.44
1:s:77:ARG:HE	1:s:80:GLU:CD	2.26	0.44
1:u:288:THR:O	1:u:291:GLU:HG3	2.18	0.44
1:y:35:LYS:HA	1:y:44:ILE:HA	1.99	0.44
1:1:31:THR:HG22	1:1:32:ASP:N	2.30	0.44
1:2:307:LYS:HD2	1:2:307:LYS:HA	1.80	0.44
1:5:368:GLY:HA2	1:6:400:TYR:CE1	2.53	0.44
1:A:288:THR:O	1:A:291:GLU:HG3	2.17	0.44
1:D:77:ARG:HE	1:D:80:GLU:CD	2.26	0.44
1:E:229:LYS:HE3	1:E:229:LYS:HB3	1.86	0.44
1:M:81:LYS:HZ1	1:M:129:SER:HB3	1.82	0.44
1:N:288:THR:O	1:N:291:GLU:HG3	2.18	0.44
1:O:278:TYR:HD2	1:O:367:MET:HE3	1.81	0.44
1:Q:145:ARG:HD3	1:Q:145:ARG:HA	1.84	0.44
1:Q:288:THR:O	1:Q:291:GLU:HG3	2.18	0.44
1:R:256:LEU:HD23	1:R:256:LEU:HA	1.87	0.44
1:T:288:THR:O	1:T:291:GLU:HG3	2.18	0.44
1:Z:116:PHE:O	1:Z:120:ILE:HG12	2.17	0.44
1:c:185:THR:HG1	1:o:320:ARG:HG3	1.77	0.44
1:m:77:ARG:HE	1:m:80:GLU:CD	2.26	0.44
1:m:288:THR:O	1:m:291:GLU:HG3	2.17	0.44
1:n:116:PHE:O	1:n:120:ILE:HG12	2.18	0.44
1:r:77:ARG:HE	1:r:80:GLU:CD	2.26	0.44
1:s:288:THR:O	1:s:291:GLU:HG3	2.18	0.44
1:t:288:THR:O	1:t:291:GLU:HG3	2.18	0.44
1:u:31:THR:HG22	1:u:32:ASP:N	2.30	0.44
1:w:31:THR:HG22	1:w:32:ASP:N	2.30	0.44
1:w:116:PHE:O	1:w:120:ILE:HG12	2.18	0.44
1:y:77:ARG:HE	1:y:80:GLU:CD	2.26	0.44
1:0:256:LEU:HD23	1:0:256:LEU:HA	1.87	0.44
1:1:340:GLU:O	1:1:344:ARG:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:220:LEU:HD22	1:4:220:LEU:HD22	1.99	0.44
1:5:335:LYS:HE2	1:5:335:LYS:HB3	1.81	0.44
1:7:72:VAL:HA	1:7:75:ARG:HE	1.81	0.44
1:7:77:ARG:HE	1:7:80:GLU:CD	2.26	0.44
1:8:116:PHE:O	1:8:120:ILE:HG12	2.18	0.44
1:AA:116:PHE:O	1:AA:120:ILE:HG12	2.18	0.44
1:B:116:PHE:O	1:B:120:ILE:HG12	2.18	0.44
1:C:371:PHE:CE2	1:D:234:LEU:HD23	2.53	0.44
1:E:116:PHE:O	1:E:120:ILE:HG12	2.18	0.44
1:H:392:LEU:HD23	1:H:395:LYS:HZ1	1.83	0.44
1:I:340:GLU:O	1:I:344:ARG:HG2	2.18	0.44
1:S:72:VAL:HA	1:S:75:ARG:HE	1.81	0.44
1:S:145:ARG:HD3	1:S:145:ARG:HA	1.84	0.44
1:U:77:ARG:HE	1:U:80:GLU:CD	2.26	0.44
1:V:288:THR:O	1:V:291:GLU:HG3	2.18	0.44
1:W:116:PHE:O	1:W:120:ILE:HG12	2.18	0.44
1:X:145:ARG:HD3	1:X:145:ARG:HA	1.84	0.44
1:Y:371:PHE:CE2	1:Z:234:LEU:HD23	2.53	0.44
1:g:242:THR:HA	1:g:399:SER:HB2	1.98	0.44
1:h:77:ARG:HE	1:h:80:GLU:CD	2.26	0.44
1:h:396:LEU:CD1	1:i:372:HIS:HA	2.46	0.44
1:i:288:THR:O	1:i:291:GLU:HG3	2.17	0.44
1:m:116:PHE:O	1:m:120:ILE:HG12	2.18	0.44
1:v:288:THR:O	1:v:291:GLU:HG3	2.18	0.44
1:w:212:ARG:O	1:w:216:ARG:HG2	2.18	0.44
1:0:116:PHE:O	1:0:120:ILE:HG12	2.18	0.44
1:0:212:ARG:O	1:0:216:ARG:HG2	2.18	0.44
1:0:288:THR:O	1:0:291:GLU:HG3	2.18	0.44
1:1:256:LEU:HD23	1:1:256:LEU:HA	1.87	0.44
1:3:77:ARG:HE	1:3:80:GLU:CD	2.26	0.44
1:4:340:GLU:O	1:4:344:ARG:HG2	2.18	0.44
1:7:288:THR:O	1:7:291:GLU:HG3	2.17	0.44
1:A:77:ARG:HE	1:A:80:GLU:CD	2.26	0.44
1:A:212:ARG:O	1:A:216:ARG:HG2	2.18	0.44
1:AB:89:PRO:HG3	1:AB:281:TYR:N	2.33	0.44
1:AB:212:ARG:O	1:AB:216:ARG:HG2	2.18	0.44
1:B:77:ARG:HE	1:B:80:GLU:CD	2.26	0.44
1:B:288:THR:O	1:B:291:GLU:HG3	2.17	0.44
1:C:212:ARG:O	1:C:216:ARG:HG2	2.18	0.44
1:G:288:THR:O	1:G:291:GLU:HG3	2.18	0.44
1:K:212:ARG:O	1:K:216:ARG:HG2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:340:GLU:O	1:K:344:ARG:HG2	2.18	0.44
1:L:340:GLU:O	1:L:344:ARG:HG2	2.18	0.44
1:N:340:GLU:O	1:N:344:ARG:HG2	2.18	0.44
1:O:371:PHE:CE2	1:P:234:LEU:HD23	2.53	0.44
1:T:256:LEU:HD23	1:T:256:LEU:HA	1.87	0.44
1:V:89:PRO:HG3	1:V:281:TYR:N	2.33	0.44
1:W:145:ARG:HD3	1:W:145:ARG:HA	1.84	0.44
1:Y:340:GLU:O	1:Y:344:ARG:HG2	2.18	0.44
1:Z:288:THR:O	1:Z:291:GLU:HG3	2.18	0.44
1:a:77:ARG:HE	1:a:80:GLU:CD	2.26	0.44
1:a:116:PHE:O	1:a:120:ILE:HG12	2.18	0.44
1:a:212:ARG:O	1:a:216:ARG:HG2	2.18	0.44
1:c:77:ARG:HE	1:c:80:GLU:CD	2.26	0.44
1:d:77:ARG:HE	1:d:80:GLU:CD	2.26	0.44
1:g:278:TYR:HD2	1:g:367:MET:HE3	1.81	0.44
1:j:35:LYS:HA	1:j:44:ILE:HA	1.99	0.44
1:j:288:THR:O	1:j:291:GLU:HG3	2.18	0.44
1:w:288:THR:O	1:w:291:GLU:HG3	2.18	0.44
1:y:212:ARG:O	1:y:216:ARG:HG2	2.18	0.44
1:z:145:ARG:HD3	1:z:145:ARG:HA	1.84	0.44
1:2:35:LYS:HA	1:2:44:ILE:HA	1.99	0.43
1:2:340:GLU:O	1:2:344:ARG:HG2	2.18	0.43
1:3:256:LEU:HD23	1:3:256:LEU:HA	1.87	0.43
1:3:340:GLU:O	1:3:344:ARG:HG2	2.18	0.43
1:7:340:GLU:O	1:7:344:ARG:HG2	2.18	0.43
1:B:72:VAL:HA	1:B:75:ARG:HE	1.81	0.43
1:I:307:LYS:HA	1:I:307:LYS:HD2	1.80	0.43
1:J:212:ARG:O	1:J:216:ARG:HG2	2.18	0.43
1:J:340:GLU:O	1:J:344:ARG:HG2	2.18	0.43
1:O:309:LYS:HB3	1:O:309:LYS:HE3	1.85	0.43
1:O:340:GLU:O	1:O:344:ARG:HG2	2.18	0.43
1:Y:89:PRO:HG3	1:Y:281:TYR:N	2.33	0.43
1:Y:212:ARG:O	1:Y:216:ARG:HG2	2.18	0.43
1:Z:392:LEU:HD23	1:Z:395:LYS:HZ1	1.83	0.43
1:a:371:PHE:CE1	1:b:231:VAL:HG22	2.53	0.43
1:d:392:LEU:HD23	1:d:395:LYS:HZ1	1.83	0.43
1:e:31:THR:HG22	1:e:32:ASP:N	2.30	0.43
1:e:288:THR:O	1:e:291:GLU:HG3	2.17	0.43
1:l:340:GLU:O	1:l:344:ARG:HG2	2.18	0.43
1:s:116:PHE:O	1:s:120:ILE:HG12	2.18	0.43
1:t:31:THR:HG22	1:t:32:ASP:N	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:u:307:LYS:HA	1:u:307:LYS:HD2	1.80	0.43
1:w:340:GLU:O	1:w:344:ARG:HG2	2.18	0.43
1:x:31:THR:HG22	1:x:32:ASP:N	2.30	0.43
1:x:340:GLU:O	1:x:344:ARG:HG2	2.18	0.43
1:z:77:ARG:HE	1:z:80:GLU:CD	2.26	0.43
1:0:392:LEU:HD23	1:0:395:LYS:HZ1	1.83	0.43
1:1:89:PRO:HG3	1:1:281:TYR:N	2.33	0.43
1:3:89:PRO:HG3	1:3:281:TYR:N	2.33	0.43
1:5:77:ARG:HE	1:5:80:GLU:CD	2.26	0.43
1:5:116:PHE:O	1:5:120:ILE:HG12	2.18	0.43
1:7:309:LYS:HB3	1:7:309:LYS:HE3	1.85	0.43
1:A:89:PRO:HG3	1:A:281:TYR:N	2.33	0.43
1:AA:212:ARG:O	1:AA:216:ARG:HG2	2.18	0.43
1:B:89:PRO:HG3	1:B:281:TYR:N	2.33	0.43
1:F:278:TYR:HD2	1:F:367:MET:HE3	1.81	0.43
1:I:212:ARG:O	1:I:216:ARG:HG2	2.18	0.43
1:K:116:PHE:O	1:K:120:ILE:HG12	2.17	0.43
1:M:116:PHE:O	1:M:120:ILE:HG12	2.18	0.43
1:N:35:LYS:HA	1:N:44:ILE:HA	1.99	0.43
1:O:307:LYS:HA	1:O:307:LYS:HD2	1.80	0.43
1:Q:340:GLU:O	1:Q:344:ARG:HG2	2.18	0.43
1:T:340:GLU:O	1:T:344:ARG:HG2	2.18	0.43
1:U:116:PHE:O	1:U:120:ILE:HG12	2.18	0.43
1:U:145:ARG:HD3	1:U:145:ARG:HA	1.84	0.43
1:W:309:LYS:HB3	1:W:309:LYS:HE3	1.85	0.43
1:a:89:PRO:HG3	1:a:281:TYR:N	2.33	0.43
1:a:371:PHE:HE1	1:b:227:PHE:CZ	2.37	0.43
1:c:212:ARG:O	1:c:216:ARG:HG2	2.18	0.43
1:f:368:GLY:HA2	1:g:400:TYR:CG	2.53	0.43
1:h:212:ARG:O	1:h:216:ARG:HG2	2.18	0.43
1:h:340:GLU:O	1:h:344:ARG:HG2	2.18	0.43
1:i:340:GLU:O	1:i:344:ARG:HG2	2.18	0.43
1:j:212:ARG:O	1:j:216:ARG:HG2	2.18	0.43
1:q:288:THR:O	1:q:291:GLU:HG3	2.18	0.43
1:r:81:LYS:HZ1	1:r:129:SER:HB3	1.84	0.43
1:r:212:ARG:O	1:r:216:ARG:HG2	2.18	0.43
1:u:340:GLU:O	1:u:344:ARG:HG2	2.18	0.43
1:x:335:LYS:HE2	1:x:335:LYS:HB3	1.81	0.43
1:y:288:THR:O	1:y:291:GLU:HG3	2.17	0.43
1:1:212:ARG:O	1:1:216:ARG:HG2	2.18	0.43
1:5:340:GLU:O	1:5:344:ARG:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:212:ARG:O	1:9:216:ARG:HG2	2.18	0.43
1:9:288:THR:O	1:9:291:GLU:HG3	2.18	0.43
1:AA:89:PRO:HG3	1:AA:281:TYR:N	2.33	0.43
1:C:300:CYS:SG	1:q:318:LEU:HD11	2.58	0.43
1:E:145:ARG:HD3	1:E:145:ARG:HA	1.84	0.43
1:E:212:ARG:O	1:E:216:ARG:HG2	2.18	0.43
1:E:288:THR:O	1:E:291:GLU:HG3	2.18	0.43
1:F:288:THR:O	1:F:291:GLU:HG3	2.18	0.43
1:I:77:ARG:HE	1:I:80:GLU:CD	2.26	0.43
1:L:77:ARG:HE	1:L:80:GLU:CD	2.26	0.43
1:M:77:ARG:HE	1:M:80:GLU:CD	2.26	0.43
1:M:307:LYS:HD2	1:M:307:LYS:HA	1.80	0.43
1:Q:31:THR:HG22	1:Q:32:ASP:N	2.30	0.43
1:S:340:GLU:O	1:S:344:ARG:HG2	2.18	0.43
1:T:77:ARG:HE	1:T:80:GLU:CD	2.26	0.43
1:U:212:ARG:O	1:U:216:ARG:HG2	2.18	0.43
1:W:212:ARG:O	1:W:216:ARG:HG2	2.18	0.43
1:Z:77:ARG:HE	1:Z:80:GLU:CD	2.26	0.43
1:Z:335:LYS:HE2	1:Z:335:LYS:HB3	1.81	0.43
1:Z:340:GLU:O	1:Z:344:ARG:HG2	2.18	0.43
1:b:212:ARG:O	1:b:216:ARG:HG2	2.18	0.43
1:c:78:LEU:O	1:c:82:TYR:HB2	2.19	0.43
1:c:89:PRO:HG3	1:c:281:TYR:N	2.33	0.43
1:d:78:LEU:O	1:d:82:TYR:HB2	2.19	0.43
1:d:212:ARG:O	1:d:216:ARG:HG2	2.18	0.43
1:e:116:PHE:O	1:e:120:ILE:HG12	2.18	0.43
1:f:212:ARG:O	1:f:216:ARG:HG2	2.18	0.43
1:i:89:PRO:HG3	1:i:281:TYR:N	2.33	0.43
1:j:116:PHE:O	1:j:120:ILE:HG12	2.18	0.43
1:o:89:PRO:HG3	1:o:281:TYR:N	2.33	0.43
1:t:81:LYS:HZ1	1:t:129:SER:HB3	1.84	0.43
1:u:278:TYR:HD2	1:u:367:MET:HE3	1.81	0.43
1:x:77:ARG:HE	1:x:80:GLU:CD	2.26	0.43
1:y:81:LYS:HZ1	1:y:129:SER:HB3	1.83	0.43
1:2:77:ARG:HE	1:2:80:GLU:CD	2.26	0.43
1:2:278:TYR:HD2	1:2:367:MET:HE3	1.81	0.43
1:4:278:TYR:HD2	1:4:367:MET:HE3	1.81	0.43
1:6:116:PHE:O	1:6:120:ILE:HG12	2.18	0.43
1:6:218:ARG:CZ	1:6:264:ALA:HB2	2.49	0.43
1:6:288:THR:O	1:6:291:GLU:HG3	2.18	0.43
1:7:78:LEU:O	1:7:82:TYR:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:288:THR:O	1:8:291:GLU:HG3	2.18	0.43
1:A:78:LEU:O	1:A:82:TYR:HB2	2.19	0.43
1:AA:77:ARG:HE	1:AA:80:GLU:CD	2.26	0.43
1:AB:116:PHE:O	1:AB:120:ILE:HG12	2.17	0.43
1:D:81:LYS:HZ1	1:D:129:SER:HB3	1.84	0.43
1:D:212:ARG:O	1:D:216:ARG:HG2	2.18	0.43
1:F:78:LEU:O	1:F:82:TYR:HB2	2.19	0.43
1:F:116:PHE:O	1:F:120:ILE:HG12	2.18	0.43
1:K:278:TYR:HD2	1:K:367:MET:HE3	1.81	0.43
1:L:31:THR:HG22	1:L:32:ASP:N	2.30	0.43
1:L:278:TYR:HD2	1:L:367:MET:HE3	1.81	0.43
1:M:89:PRO:HG3	1:M:281:TYR:N	2.33	0.43
1:N:51:LYS:HA	1:N:51:LYS:HD3	1.89	0.43
1:N:78:LEU:O	1:N:82:TYR:HB2	2.19	0.43
1:P:340:GLU:O	1:P:344:ARG:HG2	2.18	0.43
1:Q:209:HIS:NE2	1:R:226:ASP:OD2	2.51	0.43
1:R:340:GLU:O	1:R:344:ARG:HG2	2.18	0.43
1:V:77:ARG:HE	1:V:80:GLU:CD	2.26	0.43
1:W:77:ARG:HE	1:W:80:GLU:CD	2.26	0.43
1:Y:256:LEU:HD23	1:Y:256:LEU:HA	1.87	0.43
1:a:288:THR:O	1:a:291:GLU:HG3	2.18	0.43
1:d:346:GLU:O	1:d:350:LYS:HG2	2.19	0.43
1:f:77:ARG:HE	1:f:80:GLU:CD	2.26	0.43
1:h:116:PHE:O	1:h:120:ILE:HG12	2.17	0.43
1:h:278:TYR:HD2	1:h:367:MET:HE3	1.81	0.43
1:i:31:THR:HG22	1:i:32:ASP:N	2.30	0.43
1:k:346:GLU:O	1:k:350:LYS:HG2	2.19	0.43
1:l:78:LEU:O	1:l:82:TYR:HB2	2.19	0.43
1:o:288:THR:O	1:o:291:GLU:HG3	2.18	0.43
1:p:78:LEU:O	1:p:82:TYR:HB2	2.19	0.43
1:q:173:ASP:HA	1:q:178:LYS:HB2	2.01	0.43
1:r:256:LEU:HD23	1:r:256:LEU:HA	1.87	0.43
1:v:31:THR:HG22	1:v:32:ASP:N	2.30	0.43
1:x:81:LYS:HZ1	1:x:129:SER:HB3	1.84	0.43
1:y:340:GLU:O	1:y:344:ARG:HG2	2.18	0.43
1:z:89:PRO:HG3	1:z:281:TYR:N	2.33	0.43
1:z:340:GLU:O	1:z:344:ARG:HG2	2.18	0.43
1:0:51:LYS:HA	1:0:51:LYS:HD3	1.90	0.43
1:0:89:PRO:HG3	1:0:281:TYR:N	2.33	0.43
1:1:371:PHE:CE1	1:2:231:VAL:HG22	2.53	0.43
1:2:89:PRO:HG3	1:2:281:TYR:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:218:ARG:CZ	1:2:264:ALA:HB2	2.49	0.43
1:3:212:ARG:O	1:3:216:ARG:HG2	2.18	0.43
1:3:346:GLU:O	1:3:350:LYS:HG2	2.19	0.43
1:8:89:PRO:HG3	1:8:281:TYR:N	2.33	0.43
1:AB:77:ARG:HE	1:AB:80:GLU:CD	2.26	0.43
1:B:78:LEU:O	1:B:82:TYR:HB2	2.19	0.43
1:B:212:ARG:O	1:B:216:ARG:HG2	2.18	0.43
1:B:346:GLU:O	1:B:350:LYS:HG2	2.19	0.43
1:C:173:ASP:HA	1:C:178:LYS:HB2	2.01	0.43
1:G:212:ARG:O	1:G:216:ARG:HG2	2.18	0.43
1:G:335:LYS:HE2	1:G:335:LYS:HB3	1.81	0.43
1:H:212:ARG:O	1:H:216:ARG:HG2	2.18	0.43
1:J:307:LYS:HD2	1:J:307:LYS:HA	1.80	0.43
1:L:145:ARG:HD3	1:L:145:ARG:HA	1.84	0.43
1:L:212:ARG:O	1:L:216:ARG:HG2	2.18	0.43
1:M:340:GLU:O	1:M:344:ARG:HG2	2.18	0.43
1:M:346:GLU:O	1:M:350:LYS:HG2	2.19	0.43
1:N:218:ARG:CZ	1:N:264:ALA:HB2	2.49	0.43
1:O:116:PHE:O	1:O:120:ILE:HG12	2.17	0.43
1:Q:78:LEU:O	1:Q:82:TYR:HB2	2.19	0.43
1:Q:89:PRO:HG3	1:Q:281:TYR:N	2.33	0.43
1:Q:346:GLU:O	1:Q:350:LYS:HG2	2.19	0.43
1:S:78:LEU:O	1:S:82:TYR:HB2	2.19	0.43
1:S:89:PRO:HG3	1:S:281:TYR:N	2.34	0.43
1:W:173:ASP:HA	1:W:178:LYS:HB2	2.01	0.43
1:W:340:GLU:O	1:W:344:ARG:HG2	2.18	0.43
1:X:212:ARG:O	1:X:216:ARG:HG2	2.18	0.43
1:b:31:THR:HG22	1:b:32:ASP:N	2.30	0.43
1:b:89:PRO:HG3	1:b:281:TYR:N	2.33	0.43
1:c:400:TYR:CE2	1:d:368:GLY:HA2	2.53	0.43
1:f:288:THR:O	1:f:291:GLU:HG3	2.18	0.43
1:g:116:PHE:O	1:g:120:ILE:HG12	2.18	0.43
1:i:346:GLU:O	1:i:350:LYS:HG2	2.19	0.43
1:k:89:PRO:HG3	1:k:281:TYR:N	2.33	0.43
1:l:77:ARG:HE	1:l:80:GLU:CD	2.26	0.43
1:l:81:LYS:HZ1	1:l:129:SER:HB3	1.83	0.43
1:l:212:ARG:O	1:l:216:ARG:HG2	2.18	0.43
1:l:218:ARG:CZ	1:l:264:ALA:HB2	2.49	0.43
1:l:346:GLU:O	1:l:350:LYS:HG2	2.19	0.43
1:m:212:ARG:O	1:m:216:ARG:HG2	2.18	0.43
1:m:218:ARG:CZ	1:m:264:ALA:HB2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:212:ARG:O	1:n:216:ARG:HG2	2.18	0.43
1:n:309:LYS:HB3	1:n:309:LYS:HE3	1.85	0.43
1:n:340:GLU:O	1:n:344:ARG:HG2	2.18	0.43
1:r:371:PHE:CE1	1:s:231:VAL:HG22	2.53	0.43
1:x:218:ARG:CZ	1:x:264:ALA:HB2	2.49	0.43
1:1:371:PHE:HE1	1:2:227:PHE:CZ	2.36	0.43
1:4:78:LEU:O	1:4:82:TYR:HB2	2.19	0.43
1:4:218:ARG:CZ	1:4:264:ALA:HB2	2.49	0.43
1:5:212:ARG:O	1:5:216:ARG:HG2	2.18	0.43
1:7:89:PRO:HG3	1:7:281:TYR:N	2.33	0.43
1:7:346:GLU:O	1:7:350:LYS:HG2	2.19	0.43
1:9:78:LEU:O	1:9:82:TYR:HB2	2.19	0.43
1:AB:173:ASP:HA	1:AB:178:LYS:HB2	2.01	0.43
1:AB:288:THR:O	1:AB:291:GLU:HG3	2.18	0.43
1:B:173:ASP:HA	1:B:178:LYS:HB2	2.01	0.43
1:E:173:ASP:HA	1:E:178:LYS:HB2	2.01	0.43
1:F:173:ASP:HA	1:F:178:LYS:HB2	2.01	0.43
1:I:89:PRO:HG3	1:I:281:TYR:N	2.33	0.43
1:I:116:PHE:O	1:I:120:ILE:HG12	2.18	0.43
1:L:89:PRO:HG3	1:L:281:TYR:N	2.33	0.43
1:M:212:ARG:O	1:M:216:ARG:HG2	2.18	0.43
1:M:371:PHE:CE1	1:N:231:VAL:HG22	2.53	0.43
1:O:77:ARG:HE	1:O:80:GLU:CD	2.26	0.43
1:O:89:PRO:HG3	1:O:281:TYR:N	2.33	0.43
1:P:218:ARG:CZ	1:P:264:ALA:HB2	2.49	0.43
1:P:335:LYS:HE2	1:P:335:LYS:HB3	1.81	0.43
1:R:78:LEU:O	1:R:82:TYR:HB2	2.19	0.43
1:T:78:LEU:O	1:T:82:TYR:HB2	2.19	0.43
1:U:340:GLU:O	1:U:344:ARG:HG2	2.18	0.43
1:V:173:ASP:HA	1:V:178:LYS:HB2	2.01	0.43
1:Z:89:PRO:HG3	1:Z:281:TYR:N	2.33	0.43
1:Z:278:TYR:HD2	1:Z:367:MET:HE3	1.81	0.43
1:a:173:ASP:HA	1:a:178:LYS:HB2	2.01	0.43
1:d:89:PRO:HG3	1:d:281:TYR:N	2.33	0.43
1:f:173:ASP:HA	1:f:178:LYS:HB2	2.01	0.43
1:g:288:THR:O	1:g:291:GLU:HG3	2.18	0.43
1:m:340:GLU:O	1:m:344:ARG:HG2	2.18	0.43
1:n:216:ARG:HG3	1:o:223:SER:CB	2.48	0.43
1:n:256:LEU:HD23	1:n:256:LEU:HA	1.87	0.43
1:p:173:ASP:HA	1:p:178:LYS:HB2	2.01	0.43
1:s:81:LYS:HZ1	1:s:129:SER:HB3	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:t:89:PRO:HG3	1:t:281:TYR:N	2.33	0.43
1:t:212:ARG:O	1:t:216:ARG:HG2	2.18	0.43
1:u:89:PRO:HG3	1:u:281:TYR:N	2.33	0.43
1:w:223:SER:CB	1:x:216:ARG:HG3	2.46	0.43
1:y:89:PRO:HG3	1:y:281:TYR:N	2.33	0.43
1:0:346:GLU:O	1:0:350:LYS:HG2	2.19	0.43
1:1:307:LYS:HA	1:1:307:LYS:HD2	1.80	0.43
1:1:346:GLU:O	1:1:350:LYS:HG2	2.19	0.43
1:2:78:LEU:O	1:2:82:TYR:HB2	2.19	0.43
1:3:218:ARG:CZ	1:3:264:ALA:HB2	2.49	0.43
1:5:89:PRO:HG3	1:5:281:TYR:N	2.33	0.43
1:5:173:ASP:HA	1:5:178:LYS:HB2	2.01	0.43
1:7:173:ASP:HA	1:7:178:LYS:HB2	2.01	0.43
1:8:218:ARG:CZ	1:8:264:ALA:HB2	2.49	0.43
1:9:89:PRO:HG3	1:9:281:TYR:N	2.33	0.43
1:9:173:ASP:HA	1:9:178:LYS:HB2	2.01	0.43
1:AA:173:ASP:HA	1:AA:178:LYS:HB2	2.01	0.43
1:AB:78:LEU:O	1:AB:82:TYR:HB2	2.19	0.43
1:H:89:PRO:HG3	1:H:281:TYR:N	2.33	0.43
1:H:173:ASP:HA	1:H:178:LYS:HB2	2.01	0.43
1:H:340:GLU:O	1:H:344:ARG:HG2	2.18	0.43
1:J:218:ARG:CZ	1:J:264:ALA:HB2	2.49	0.43
1:N:346:GLU:O	1:N:350:LYS:HG2	2.19	0.43
1:O:212:ARG:O	1:O:216:ARG:HG2	2.18	0.43
1:Q:136:LEU:HD23	1:Q:136:LEU:HA	1.89	0.43
1:R:89:PRO:HG3	1:R:281:TYR:N	2.33	0.43
1:R:218:ARG:CZ	1:R:264:ALA:HB2	2.49	0.43
1:R:346:GLU:O	1:R:350:LYS:HG2	2.19	0.43
1:S:346:GLU:O	1:S:350:LYS:HG2	2.19	0.43
1:T:218:ARG:CZ	1:T:264:ALA:HB2	2.49	0.43
1:T:346:GLU:O	1:T:350:LYS:HG2	2.19	0.43
1:U:173:ASP:HA	1:U:178:LYS:HB2	2.01	0.43
1:U:256:LEU:HD23	1:U:256:LEU:HA	1.87	0.43
1:U:346:GLU:O	1:U:350:LYS:HG2	2.19	0.43
1:Z:31:THR:HG22	1:Z:32:ASP:N	2.30	0.43
1:Z:212:ARG:O	1:Z:216:ARG:HG2	2.18	0.43
1:Z:218:ARG:CZ	1:Z:264:ALA:HB2	2.49	0.43
1:Z:256:LEU:HD23	1:Z:256:LEU:HA	1.87	0.43
1:a:78:LEU:O	1:a:82:TYR:HB2	2.19	0.43
1:f:368:GLY:CA	1:g:400:TYR:CG	3.02	0.43
1:g:340:GLU:O	1:g:344:ARG:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:307:LYS:HD2	1:h:307:LYS:HA	1.80	0.43
1:m:346:GLU:O	1:m:350:LYS:HG2	2.19	0.43
1:o:218:ARG:CZ	1:o:264:ALA:HB2	2.49	0.43
1:r:51:LYS:HA	1:r:51:LYS:HD3	1.90	0.43
1:r:173:ASP:HA	1:r:178:LYS:HB2	2.01	0.43
1:t:307:LYS:HA	1:t:307:LYS:HD2	1.80	0.43
1:t:340:GLU:O	1:t:344:ARG:HG2	2.18	0.43
1:v:340:GLU:O	1:v:344:ARG:HG2	2.18	0.43
1:w:89:PRO:HG3	1:w:281:TYR:N	2.34	0.43
1:y:218:ARG:CZ	1:y:264:ALA:HB2	2.49	0.43
1:z:116:PHE:O	1:z:120:ILE:HG12	2.18	0.43
1:0:78:LEU:O	1:0:82:TYR:HB2	2.19	0.43
1:1:145:ARG:HD3	1:1:145:ARG:HA	1.84	0.43
1:6:78:LEU:O	1:6:82:TYR:HB2	2.19	0.43
1:6:89:PRO:HG3	1:6:281:TYR:N	2.33	0.43
1:7:212:ARG:O	1:7:216:ARG:HG2	2.18	0.43
1:A:218:ARG:CZ	1:A:264:ALA:HB2	2.49	0.43
1:C:78:LEU:O	1:C:82:TYR:HB2	2.19	0.43
1:D:89:PRO:HG3	1:D:281:TYR:N	2.33	0.43
1:D:173:ASP:HA	1:D:178:LYS:HB2	2.01	0.43
1:D:335:LYS:HE2	1:D:335:LYS:HB3	1.81	0.43
1:F:340:GLU:O	1:F:344:ARG:HG2	2.18	0.43
1:F:346:GLU:O	1:F:350:LYS:HG2	2.19	0.43
1:I:346:GLU:O	1:I:350:LYS:HG2	2.19	0.43
1:M:218:ARG:CZ	1:M:264:ALA:HB2	2.49	0.43
1:M:309:LYS:HB3	1:M:309:LYS:HE3	1.85	0.43
1:M:371:PHE:HE1	1:N:227:PHE:CZ	2.37	0.43
1:N:212:ARG:O	1:N:216:ARG:HG2	2.18	0.43
1:P:212:ARG:O	1:P:216:ARG:HG2	2.18	0.43
1:S:51:LYS:HA	1:S:51:LYS:HD3	1.90	0.43
1:W:346:GLU:O	1:W:350:LYS:HG2	2.19	0.43
1:X:173:ASP:HA	1:X:178:LYS:HB2	2.01	0.43
1:Y:31:THR:HG22	1:Y:32:ASP:N	2.30	0.43
1:Y:346:GLU:O	1:Y:350:LYS:HG2	2.19	0.43
1:d:173:ASP:HA	1:d:178:LYS:HB2	2.01	0.43
1:g:218:ARG:CZ	1:g:264:ALA:HB2	2.49	0.43
1:h:89:PRO:HG3	1:h:281:TYR:N	2.33	0.43
1:i:78:LEU:O	1:i:82:TYR:HB2	2.19	0.43
1:i:173:ASP:HA	1:i:178:LYS:HB2	2.01	0.43
1:j:218:ARG:CZ	1:j:264:ALA:HB2	2.49	0.43
1:j:340:GLU:O	1:j:344:ARG:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:173:ASP:HA	1:k:178:LYS:HB2	2.01	0.43
1:n:78:LEU:O	1:n:82:TYR:HB2	2.19	0.43
1:n:173:ASP:HA	1:n:178:LYS:HB2	2.01	0.43
1:o:173:ASP:HA	1:o:178:LYS:HB2	2.01	0.43
1:r:346:GLU:O	1:r:350:LYS:HG2	2.19	0.43
1:s:173:ASP:HA	1:s:178:LYS:HB2	2.01	0.43
1:u:335:LYS:HE2	1:u:335:LYS:HB3	1.81	0.43
1:v:173:ASP:HA	1:v:178:LYS:HB2	2.01	0.43
1:v:212:ARG:O	1:v:216:ARG:HG2	2.18	0.43
1:x:116:PHE:O	1:x:120:ILE:HG12	2.18	0.43
1:1:218:ARG:CZ	1:1:264:ALA:HB2	2.49	0.43
1:4:51:LYS:HA	1:4:51:LYS:HD3	1.89	0.43
1:5:346:GLU:O	1:5:350:LYS:HG2	2.19	0.43
1:7:31:THR:HG22	1:7:32:ASP:N	2.30	0.43
1:8:340:GLU:O	1:8:344:ARG:HG2	2.18	0.43
1:C:256:LEU:HD23	1:C:256:LEU:HA	1.87	0.43
1:C:309:LYS:HB3	1:C:309:LYS:HE3	1.85	0.43
1:D:78:LEU:O	1:D:82:TYR:HB2	2.19	0.43
1:E:89:PRO:HG3	1:E:281:TYR:N	2.33	0.43
1:G:173:ASP:HA	1:G:178:LYS:HB2	2.01	0.43
1:L:346:GLU:O	1:L:350:LYS:HG2	2.19	0.43
1:N:89:PRO:HG3	1:N:281:TYR:N	2.33	0.43
1:N:278:TYR:HD2	1:N:367:MET:HE3	1.81	0.43
1:O:218:ARG:CZ	1:O:264:ALA:HB2	2.49	0.43
1:R:212:ARG:O	1:R:216:ARG:HG2	2.18	0.43
1:S:173:ASP:HA	1:S:178:LYS:HB2	2.01	0.43
1:T:89:PRO:HG3	1:T:281:TYR:N	2.33	0.43
1:V:218:ARG:CZ	1:V:264:ALA:HB2	2.49	0.43
1:X:89:PRO:HG3	1:X:281:TYR:N	2.33	0.43
1:a:31:THR:HG22	1:a:32:ASP:N	2.30	0.43
1:d:288:THR:O	1:d:291:GLU:HG3	2.18	0.43
1:g:173:ASP:HA	1:g:178:LYS:HB2	2.01	0.43
1:g:212:ARG:O	1:g:216:ARG:HG2	2.18	0.43
1:i:212:ARG:O	1:i:216:ARG:HG2	2.18	0.43
1:k:340:GLU:O	1:k:344:ARG:HG2	2.18	0.43
1:p:212:ARG:O	1:p:216:ARG:HG2	2.18	0.43
1:p:340:GLU:O	1:p:344:ARG:HG2	2.18	0.43
1:r:371:PHE:HE1	1:s:227:PHE:CZ	2.37	0.43
1:s:340:GLU:O	1:s:344:ARG:HG2	2.18	0.43
1:t:173:ASP:HA	1:t:178:LYS:HB2	2.01	0.43
1:u:218:ARG:CZ	1:u:264:ALA:HB2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:v:346:GLU:O	1:v:350:LYS:HG2	2.19	0.43
1:x:78:LEU:O	1:x:82:TYR:HB2	2.19	0.43
1:z:218:ARG:CZ	1:z:264:ALA:HB2	2.49	0.43
1:0:173:ASP:HA	1:0:178:LYS:HB2	2.01	0.43
1:A:173:ASP:HA	1:A:178:LYS:HB2	2.01	0.43
1:AB:346:GLU:O	1:AB:350:LYS:HG2	2.19	0.43
1:C:89:PRO:HG3	1:C:281:TYR:N	2.33	0.43
1:E:340:GLU:O	1:E:344:ARG:HG2	2.18	0.43
1:E:346:GLU:O	1:E:350:LYS:HG2	2.19	0.43
1:F:89:PRO:HG3	1:F:281:TYR:N	2.33	0.43
1:G:340:GLU:O	1:G:344:ARG:HG2	2.18	0.43
1:J:89:PRO:HG3	1:J:281:TYR:N	2.33	0.43
1:J:145:ARG:HD3	1:J:145:ARG:HA	1.84	0.43
1:L:218:ARG:CZ	1:L:264:ALA:HB2	2.49	0.43
1:O:47:ARG:HH21	1:O:63:ILE:HG12	1.84	0.43
1:O:346:GLU:O	1:O:350:LYS:HG2	2.19	0.43
1:Q:173:ASP:HA	1:Q:178:LYS:HB2	2.01	0.43
1:T:59:GLY:HA3	1:T:60:PRO:HD3	1.92	0.43
1:T:212:ARG:O	1:T:216:ARG:HG2	2.18	0.43
1:V:78:LEU:O	1:V:82:TYR:HB2	2.19	0.43
1:Y:218:ARG:CZ	1:Y:264:ALA:HB2	2.49	0.43
1:Z:78:LEU:O	1:Z:82:TYR:HB2	2.19	0.43
1:b:173:ASP:HA	1:b:178:LYS:HB2	2.01	0.43
1:c:173:ASP:HA	1:c:178:LYS:HB2	2.01	0.43
1:c:218:ARG:CZ	1:c:264:ALA:HB2	2.49	0.43
1:c:346:GLU:O	1:c:350:LYS:HG2	2.19	0.43
1:e:212:ARG:O	1:e:216:ARG:HG2	2.18	0.43
1:e:340:GLU:O	1:e:344:ARG:HG2	2.18	0.43
1:h:145:ARG:HD3	1:h:145:ARG:HA	1.84	0.43
1:n:89:PRO:HG3	1:n:281:TYR:N	2.33	0.43
1:o:78:LEU:O	1:o:82:TYR:HB2	2.19	0.43
1:p:346:GLU:O	1:p:350:LYS:HG2	2.19	0.43
1:r:89:PRO:HG3	1:r:281:TYR:N	2.33	0.43
1:u:173:ASP:HA	1:u:178:LYS:HB2	2.01	0.43
1:v:89:PRO:HG3	1:v:281:TYR:N	2.33	0.43
1:w:278:TYR:HD2	1:w:367:MET:HE3	1.81	0.43
1:y:278:TYR:HD2	1:y:367:MET:HE3	1.81	0.43
1:2:346:GLU:O	1:2:350:LYS:HG2	2.19	0.42
1:4:346:GLU:O	1:4:350:LYS:HG2	2.19	0.42
1:B:218:ARG:CZ	1:B:264:ALA:HB2	2.49	0.42
1:C:340:GLU:O	1:C:344:ARG:HG2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:346:GLU:O	1:C:350:LYS:HG2	2.19	0.42
1:E:78:LEU:O	1:E:82:TYR:HB2	2.19	0.42
1:G:89:PRO:HG3	1:G:281:TYR:N	2.33	0.42
1:O:145:ARG:HD3	1:O:145:ARG:HA	1.84	0.42
1:P:78:LEU:O	1:P:82:TYR:HB2	2.19	0.42
1:P:309:LYS:HB3	1:P:309:LYS:HE3	1.85	0.42
1:Q:212:ARG:O	1:Q:216:ARG:HG2	2.18	0.42
1:R:335:LYS:HE2	1:R:335:LYS:HB3	1.81	0.42
1:Y:78:LEU:O	1:Y:82:TYR:HB2	2.19	0.42
1:Y:145:ARG:HD3	1:Y:145:ARG:HA	1.84	0.42
1:b:307:LYS:HA	1:b:307:LYS:HD2	1.80	0.42
1:b:340:GLU:O	1:b:344:ARG:HG2	2.18	0.42
1:e:173:ASP:HA	1:e:178:LYS:HB2	2.01	0.42
1:e:307:LYS:HA	1:e:307:LYS:HD2	1.80	0.42
1:f:346:GLU:O	1:f:350:LYS:HG2	2.19	0.42
1:j:346:GLU:O	1:j:350:LYS:HG2	2.19	0.42
1:k:78:LEU:O	1:k:82:TYR:HB2	2.19	0.42
1:l:89:PRO:HG3	1:l:281:TYR:N	2.33	0.42
1:m:31:THR:HG22	1:m:32:ASP:N	2.30	0.42
1:m:78:LEU:O	1:m:82:TYR:HB2	2.19	0.42
1:o:212:ARG:O	1:o:216:ARG:HG2	2.18	0.42
1:o:340:GLU:O	1:o:344:ARG:HG2	2.18	0.42
1:p:31:THR:HG22	1:p:32:ASP:N	2.30	0.42
1:p:89:PRO:HG3	1:p:281:TYR:N	2.33	0.42
1:q:340:GLU:O	1:q:344:ARG:HG2	2.18	0.42
1:r:340:GLU:O	1:r:344:ARG:HG2	2.18	0.42
1:t:145:ARG:HA	1:t:145:ARG:HD3	1.84	0.42
1:t:209:HIS:NE2	1:u:226:ASP:OD2	2.52	0.42
1:u:346:GLU:O	1:u:350:LYS:HG2	2.19	0.42
1:w:47:ARG:HH21	1:w:63:ILE:HG12	1.84	0.42
1:x:346:GLU:O	1:x:350:LYS:HG2	2.19	0.42
1:z:212:ARG:O	1:z:216:ARG:HG2	2.18	0.42
1:1:78:LEU:O	1:1:82:TYR:HB2	2.19	0.42
1:4:89:PRO:HG3	1:4:281:TYR:N	2.33	0.42
1:5:78:LEU:O	1:5:82:TYR:HB2	2.19	0.42
1:9:81:LYS:HZ1	1:9:129:SER:HB3	1.83	0.42
1:9:346:GLU:O	1:9:350:LYS:HG2	2.19	0.42
1:A:340:GLU:O	1:A:344:ARG:HG2	2.18	0.42
1:AA:335:LYS:HE2	1:AA:335:LYS:HB3	1.81	0.42
1:H:78:LEU:O	1:H:82:TYR:HB2	2.19	0.42
1:I:173:ASP:HA	1:I:178:LYS:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:256:LEU:HD23	1:I:256:LEU:HA	1.87	0.42
1:J:346:GLU:O	1:J:350:LYS:HG2	2.19	0.42
1:K:47:ARG:HH21	1:K:63:ILE:HG12	1.84	0.42
1:K:89:PRO:HG3	1:K:281:TYR:N	2.33	0.42
1:P:346:GLU:O	1:P:350:LYS:HG2	2.19	0.42
1:Q:371:PHE:CE2	1:R:234:LEU:HD23	2.54	0.42
1:S:81:LYS:HZ1	1:S:129:SER:HB3	1.84	0.42
1:T:173:ASP:HA	1:T:178:LYS:HB2	2.01	0.42
1:U:89:PRO:HG3	1:U:281:TYR:N	2.33	0.42
1:V:346:GLU:O	1:V:350:LYS:HG2	2.19	0.42
1:W:78:LEU:O	1:W:82:TYR:HB2	2.19	0.42
1:W:89:PRO:HG3	1:W:281:TYR:N	2.33	0.42
1:b:218:ARG:CZ	1:b:264:ALA:HB2	2.49	0.42
1:b:346:GLU:O	1:b:350:LYS:HG2	2.19	0.42
1:d:307:LYS:HD2	1:d:307:LYS:HA	1.80	0.42
1:g:78:LEU:O	1:g:82:TYR:HB2	2.19	0.42
1:j:78:LEU:O	1:j:82:TYR:HB2	2.19	0.42
1:k:209:HIS:NE2	1:l:226:ASP:OD2	2.52	0.42
1:l:335:LYS:HE2	1:l:335:LYS:HB3	1.81	0.42
1:m:173:ASP:HA	1:m:178:LYS:HB2	2.01	0.42
1:n:346:GLU:O	1:n:350:LYS:HG2	2.19	0.42
1:o:346:GLU:O	1:o:350:LYS:HG2	2.19	0.42
1:q:89:PRO:HG3	1:q:281:TYR:N	2.33	0.42
1:s:89:PRO:HG3	1:s:281:TYR:N	2.33	0.42
1:s:212:ARG:O	1:s:216:ARG:HG2	2.18	0.42
1:w:218:ARG:CZ	1:w:264:ALA:HB2	2.49	0.42
1:x:89:PRO:HG3	1:x:281:TYR:N	2.33	0.42
1:z:47:ARG:HH21	1:z:63:ILE:HG12	1.84	0.42
1:0:340:GLU:O	1:0:344:ARG:HG2	2.18	0.42
1:2:130:GLU:HA	1:2:133:ARG:HE	1.85	0.42
1:5:47:ARG:HH21	1:5:63:ILE:HG12	1.84	0.42
1:6:340:GLU:O	1:6:344:ARG:HG2	2.18	0.42
1:8:78:LEU:O	1:8:82:TYR:HB2	2.19	0.42
1:8:173:ASP:HA	1:8:178:LYS:HB2	2.01	0.42
1:9:256:LEU:HD23	1:9:256:LEU:HA	1.87	0.42
1:AB:218:ARG:CZ	1:AB:264:ALA:HB2	2.49	0.42
1:C:145:ARG:HD3	1:C:145:ARG:HA	1.84	0.42
1:D:340:GLU:O	1:D:344:ARG:HG2	2.18	0.42
1:F:212:ARG:O	1:F:216:ARG:HG2	2.18	0.42
1:F:218:ARG:CZ	1:F:264:ALA:HB2	2.49	0.42
1:G:145:ARG:HA	1:G:145:ARG:HD3	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:218:ARG:CZ	1:H:264:ALA:HB2	2.49	0.42
1:I:145:ARG:HD3	1:I:145:ARG:HA	1.84	0.42
1:K:218:ARG:CZ	1:K:264:ALA:HB2	2.49	0.42
1:K:307:LYS:HA	1:K:307:LYS:HD2	1.80	0.42
1:L:173:ASP:HA	1:L:178:LYS:HB2	2.01	0.42
1:M:145:ARG:HD3	1:M:145:ARG:HA	1.84	0.42
1:M:173:ASP:HA	1:M:178:LYS:HB2	2.01	0.42
1:O:78:LEU:O	1:O:82:TYR:HB2	2.19	0.42
1:O:173:ASP:HA	1:O:178:LYS:HB2	2.01	0.42
1:O:213:LEU:HD11	1:P:227:PHE:CD1	2.55	0.42
1:O:323:LYS:HE2	1:O:323:LYS:HB2	1.93	0.42
1:P:89:PRO:HG3	1:P:281:TYR:N	2.33	0.42
1:T:335:LYS:HE2	1:T:335:LYS:HB3	1.81	0.42
1:U:81:LYS:HZ1	1:U:129:SER:HB3	1.83	0.42
1:V:311:ILE:HD11	1:a:311:ILE:CD1	2.49	0.42
1:Y:173:ASP:HA	1:Y:178:LYS:HB2	2.01	0.42
1:a:218:ARG:CZ	1:a:264:ALA:HB2	2.49	0.42
1:a:256:LEU:HD23	1:a:256:LEU:HA	1.87	0.42
1:a:340:GLU:O	1:a:344:ARG:HG2	2.18	0.42
1:a:346:GLU:O	1:a:350:LYS:HG2	2.19	0.42
1:b:392:LEU:HD23	1:b:395:LYS:HZ1	1.84	0.42
1:c:392:LEU:HD23	1:c:395:LYS:HZ1	1.84	0.42
1:e:89:PRO:HG3	1:e:281:TYR:N	2.33	0.42
1:g:89:PRO:HG3	1:g:281:TYR:N	2.33	0.42
1:h:78:LEU:O	1:h:82:TYR:HB2	2.19	0.42
1:h:173:ASP:HA	1:h:178:LYS:HB2	2.01	0.42
1:h:346:GLU:O	1:h:350:LYS:HG2	2.19	0.42
1:h:392:LEU:HD23	1:h:395:LYS:HZ1	1.84	0.42
1:j:31:THR:HG22	1:j:32:ASP:N	2.30	0.42
1:j:47:ARG:HH21	1:j:63:ILE:HG12	1.84	0.42
1:k:145:ARG:HD3	1:k:145:ARG:HA	1.84	0.42
1:l:173:ASP:HA	1:l:178:LYS:HB2	2.01	0.42
1:q:212:ARG:O	1:q:216:ARG:HG2	2.18	0.42
1:s:78:LEU:O	1:s:82:TYR:HB2	2.19	0.42
1:u:51:LYS:HA	1:u:51:LYS:HD3	1.90	0.42
1:u:212:ARG:O	1:u:216:ARG:HG2	2.18	0.42
1:v:218:ARG:CZ	1:v:264:ALA:HB2	2.49	0.42
1:x:47:ARG:HH21	1:x:63:ILE:HG12	1.84	0.42
1:1:173:ASP:HA	1:1:178:LYS:HB2	2.01	0.42
1:2:212:ARG:O	1:2:216:ARG:HG2	2.18	0.42
1:6:212:ARG:O	1:6:216:ARG:HG2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:346:GLU:O	1:8:350:LYS:HG2	2.19	0.42
1:A:346:GLU:O	1:A:350:LYS:HG2	2.19	0.42
1:AA:145:ARG:HD3	1:AA:145:ARG:HA	1.84	0.42
1:AA:346:GLU:O	1:AA:350:LYS:HG2	2.19	0.42
1:AB:340:GLU:O	1:AB:344:ARG:HG2	2.18	0.42
1:E:392:LEU:HD23	1:E:395:LYS:HZ1	1.84	0.42
1:H:51:LYS:HA	1:H:51:LYS:HD3	1.90	0.42
1:M:47:ARG:HH21	1:M:63:ILE:HG12	1.84	0.42
1:P:130:GLU:HA	1:P:133:ARG:HE	1.85	0.42
1:P:278:TYR:HD2	1:P:367:MET:HE3	1.81	0.42
1:R:59:GLY:HA3	1:R:60:PRO:HD3	1.92	0.42
1:X:78:LEU:O	1:X:82:TYR:HB2	2.19	0.42
1:Z:307:LYS:HA	1:Z:307:LYS:HD2	1.80	0.42
1:a:136:LEU:HD23	1:a:136:LEU:HA	1.89	0.42
1:d:81:LYS:HZ1	1:d:129:SER:HB3	1.83	0.42
1:d:218:ARG:CZ	1:d:264:ALA:HB2	2.49	0.42
1:f:78:LEU:O	1:f:82:TYR:HB2	2.19	0.42
1:f:340:GLU:O	1:f:344:ARG:HG2	2.18	0.42
1:g:47:ARG:HH21	1:g:63:ILE:HG12	1.84	0.42
1:h:47:ARG:HH21	1:h:63:ILE:HG12	1.84	0.42
1:j:59:GLY:HA3	1:j:60:PRO:HD3	1.92	0.42
1:j:89:PRO:HG3	1:j:281:TYR:N	2.33	0.42
1:k:51:LYS:HA	1:k:51:LYS:HD3	1.89	0.42
1:q:346:GLU:O	1:q:350:LYS:HG2	2.19	0.42
1:t:346:GLU:O	1:t:350:LYS:HG2	2.19	0.42
1:x:212:ARG:O	1:x:216:ARG:HG2	2.18	0.42
1:z:78:LEU:O	1:z:82:TYR:HB2	2.19	0.42
1:z:173:ASP:HA	1:z:178:LYS:HB2	2.01	0.42
1:2:79:PHE:HB2	1:2:87:ILE:HG13	2.02	0.42
1:4:212:ARG:O	1:4:216:ARG:HG2	2.18	0.42
1:5:371:PHE:CE2	1:6:234:LEU:HD23	2.55	0.42
1:6:173:ASP:HA	1:6:178:LYS:HB2	2.01	0.42
1:8:212:ARG:O	1:8:216:ARG:HG2	2.18	0.42
1:9:130:GLU:HA	1:9:133:ARG:HE	1.85	0.42
1:C:218:ARG:CZ	1:C:264:ALA:HB2	2.49	0.42
1:D:256:LEU:HD23	1:D:256:LEU:HA	1.87	0.42
1:G:31:THR:HG22	1:G:32:ASP:N	2.30	0.42
1:H:346:GLU:O	1:H:350:LYS:HG2	2.19	0.42
1:L:81:LYS:HZ1	1:L:129:SER:HB3	1.85	0.42
1:R:81:LYS:HZ1	1:R:129:SER:HB3	1.85	0.42
1:V:229:LYS:HE3	1:V:229:LYS:HB3	1.86	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:130:GLU:HA	1:W:133:ARG:HE	1.85	0.42
1:W:227:PHE:CG	1:X:213:LEU:HD11	2.55	0.42
1:X:340:GLU:O	1:X:344:ARG:HG2	2.18	0.42
1:Z:79:PHE:HB2	1:Z:87:ILE:HG13	2.02	0.42
1:b:59:GLY:HA3	1:b:60:PRO:HD3	1.92	0.42
1:b:81:LYS:HZ1	1:b:129:SER:HB3	1.85	0.42
1:b:145:ARG:HA	1:b:145:ARG:HD3	1.84	0.42
1:d:340:GLU:O	1:d:344:ARG:HG2	2.18	0.42
1:e:218:ARG:CZ	1:e:264:ALA:HB2	2.49	0.42
1:h:218:ARG:CZ	1:h:264:ALA:HB2	2.49	0.42
1:h:256:LEU:HD23	1:h:256:LEU:HA	1.87	0.42
1:n:130:GLU:HA	1:n:133:ARG:HE	1.85	0.42
1:o:309:LYS:HB3	1:o:309:LYS:HE3	1.85	0.42
1:r:78:LEU:O	1:r:82:TYR:HB2	2.19	0.42
1:r:130:GLU:HA	1:r:133:ARG:HE	1.85	0.42
1:s:218:ARG:CZ	1:s:264:ALA:HB2	2.49	0.42
1:t:371:PHE:HE2	1:u:234:LEU:HD23	1.84	0.42
1:t:371:PHE:CE2	1:u:234:LEU:HD23	2.55	0.42
1:v:78:LEU:O	1:v:82:TYR:HB2	2.19	0.42
1:w:130:GLU:HA	1:w:133:ARG:HE	1.85	0.42
1:y:130:GLU:HA	1:y:133:ARG:HE	1.85	0.42
1:y:227:PHE:CG	1:z:213:LEU:HD11	2.55	0.42
1:4:130:GLU:HA	1:4:133:ARG:HE	1.85	0.42
1:5:209:HIS:NE2	1:6:226:ASP:OD2	2.52	0.42
1:AA:78:LEU:O	1:AA:82:TYR:HB2	2.19	0.42
1:AA:218:ARG:CZ	1:AA:264:ALA:HB2	2.49	0.42
1:C:130:GLU:HA	1:C:133:ARG:HE	1.85	0.42
1:D:392:LEU:HA	1:D:395:LYS:HZ3	1.85	0.42
1:H:81:LYS:HZ1	1:H:129:SER:HB3	1.85	0.42
1:I:209:HIS:HB3	1:J:227:PHE:HD1	1.84	0.42
1:K:130:GLU:HA	1:K:133:ARG:HE	1.85	0.42
1:K:173:ASP:HA	1:K:178:LYS:HB2	2.01	0.42
1:P:31:THR:HG22	1:P:32:ASP:N	2.30	0.42
1:P:47:ARG:HH21	1:P:63:ILE:HG12	1.84	0.42
1:Q:218:ARG:CZ	1:Q:264:ALA:HB2	2.49	0.42
1:R:173:ASP:HA	1:R:178:LYS:HB2	2.01	0.42
1:S:212:ARG:O	1:S:216:ARG:HG2	2.18	0.42
1:T:79:PHE:HB2	1:T:87:ILE:HG13	2.02	0.42
1:b:79:PHE:HB2	1:b:87:ILE:HG13	2.02	0.42
1:c:396:LEU:CD1	1:d:372:HIS:HA	2.50	0.42
1:e:78:LEU:O	1:e:82:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:89:PRO:HG3	1:f:281:TYR:N	2.33	0.42
1:g:309:LYS:HB3	1:g:309:LYS:HE3	1.85	0.42
1:k:212:ARG:O	1:k:216:ARG:HG2	2.18	0.42
1:r:218:ARG:CZ	1:r:264:ALA:HB2	2.49	0.42
1:t:78:LEU:O	1:t:82:TYR:HB2	2.19	0.42
1:t:130:GLU:HA	1:t:133:ARG:HE	1.85	0.42
1:v:323:LYS:HE2	1:v:323:LYS:HB2	1.93	0.42
1:w:307:LYS:HA	1:w:307:LYS:HD2	1.80	0.42
1:y:47:ARG:HH21	1:y:63:ILE:HG12	1.84	0.42
1:y:78:LEU:O	1:y:82:TYR:HB2	2.19	0.42
1:0:130:GLU:HA	1:0:133:ARG:HE	1.85	0.42
1:3:173:ASP:HA	1:3:178:LYS:HB2	2.01	0.42
1:3:311:ILE:HD11	1:x:311:ILE:CD1	2.50	0.42
1:5:130:GLU:HA	1:5:133:ARG:HE	1.85	0.42
1:5:371:PHE:HE2	1:6:234:LEU:HD23	1.84	0.42
1:A:392:LEU:HD23	1:A:395:LYS:HZ1	1.84	0.42
1:E:59:GLY:HA3	1:E:60:PRO:HD3	1.92	0.42
1:F:47:ARG:HH21	1:F:63:ILE:HG12	1.84	0.42
1:G:301:GLU:O	1:G:304:GLU:HG3	2.20	0.42
1:G:346:GLU:O	1:G:350:LYS:HG2	2.19	0.42
1:H:79:PHE:HB2	1:H:87:ILE:HG13	2.02	0.42
1:I:218:ARG:CZ	1:I:264:ALA:HB2	2.49	0.42
1:J:78:LEU:O	1:J:82:TYR:HB2	2.19	0.42
1:J:173:ASP:HA	1:J:178:LYS:HB2	2.01	0.42
1:K:78:LEU:O	1:K:82:TYR:HB2	2.19	0.42
1:K:227:PHE:CG	1:L:213:LEU:HD11	2.55	0.42
1:N:130:GLU:HA	1:N:133:ARG:HE	1.85	0.42
1:T:309:LYS:HB3	1:T:309:LYS:HE3	1.85	0.42
1:U:78:LEU:O	1:U:82:TYR:HB2	2.19	0.42
1:V:340:GLU:O	1:V:344:ARG:HG2	2.18	0.42
1:X:218:ARG:CZ	1:X:264:ALA:HB2	2.49	0.42
1:Y:213:LEU:HD11	1:Z:227:PHE:CD1	2.55	0.42
1:Z:47:ARG:HH21	1:Z:63:ILE:HG12	1.84	0.42
1:a:81:LYS:HZ1	1:a:129:SER:HB3	1.83	0.42
1:c:340:GLU:O	1:c:344:ARG:HG2	2.18	0.42
1:e:130:GLU:HA	1:e:133:ARG:HE	1.85	0.42
1:i:47:ARG:HH21	1:i:63:ILE:HG12	1.84	0.42
1:j:130:GLU:HA	1:j:133:ARG:HE	1.85	0.42
1:r:59:GLY:HA3	1:r:60:PRO:HD3	1.92	0.42
1:s:130:GLU:HA	1:s:133:ARG:HE	1.85	0.42
1:t:79:PHE:HB2	1:t:87:ILE:HG13	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:173:ASP:HA	1:w:178:LYS:HB2	2.01	0.42
1:y:309:LYS:HB3	1:y:309:LYS:HE3	1.85	0.42
1:y:346:GLU:O	1:y:350:LYS:HG2	2.19	0.42
1:0:218:ARG:CZ	1:0:264:ALA:HB2	2.49	0.42
1:4:173:ASP:HA	1:4:178:LYS:HB2	2.01	0.42
1:6:47:ARG:HH21	1:6:63:ILE:HG12	1.84	0.42
1:6:346:GLU:O	1:6:350:LYS:HG2	2.19	0.42
1:7:130:GLU:HA	1:7:133:ARG:HE	1.85	0.42
1:9:79:PHE:HB2	1:9:87:ILE:HG13	2.02	0.42
1:9:340:GLU:O	1:9:344:ARG:HG2	2.18	0.42
1:AA:47:ARG:HH21	1:AA:63:ILE:HG12	1.84	0.42
1:AB:130:GLU:HA	1:AB:133:ARG:HE	1.85	0.42
1:C:79:PHE:HB2	1:C:87:ILE:HG13	2.02	0.42
1:D:218:ARG:CZ	1:D:264:ALA:HB2	2.49	0.42
1:G:307:LYS:HA	1:G:307:LYS:HD2	1.80	0.42
1:H:256:LEU:HD23	1:H:256:LEU:HA	1.87	0.42
1:I:130:GLU:HA	1:I:133:ARG:HE	1.85	0.42
1:K:79:PHE:HB2	1:K:87:ILE:HG13	2.02	0.42
1:L:47:ARG:HH21	1:L:63:ILE:HG12	1.84	0.42
1:L:78:LEU:O	1:L:82:TYR:HB2	2.19	0.42
1:R:79:PHE:HB2	1:R:87:ILE:HG13	2.02	0.42
1:R:130:GLU:HA	1:R:133:ARG:HE	1.85	0.42
1:T:307:LYS:HA	1:T:307:LYS:HD2	1.80	0.42
1:U:47:ARG:HH21	1:U:63:ILE:HG12	1.84	0.42
1:U:216:ARG:HG3	1:V:223:SER:CB	2.48	0.42
1:V:212:ARG:O	1:V:216:ARG:HG2	2.18	0.42
1:Z:130:GLU:HA	1:Z:133:ARG:HE	1.85	0.42
1:Z:346:GLU:O	1:Z:350:LYS:HG2	2.19	0.42
1:b:78:LEU:O	1:b:82:TYR:HB2	2.19	0.42
1:b:130:GLU:HA	1:b:133:ARG:HE	1.85	0.42
1:h:130:GLU:HA	1:h:133:ARG:HE	1.85	0.42
1:j:278:TYR:HD2	1:j:367:MET:HE3	1.81	0.42
1:k:218:ARG:CZ	1:k:264:ALA:HB2	2.49	0.42
1:k:371:PHE:HE2	1:l:234:LEU:HD23	1.84	0.42
1:l:79:PHE:HB2	1:l:87:ILE:HG13	2.02	0.42
1:l:313:LEU:O	1:l:317:MET:HG2	2.20	0.42
1:m:89:PRO:HG3	1:m:281:TYR:N	2.33	0.42
1:n:81:LYS:HZ1	1:n:129:SER:HB3	1.85	0.42
1:n:218:ARG:CZ	1:n:264:ALA:HB2	2.49	0.42
1:o:229:LYS:HE3	1:o:229:LYS:HB3	1.86	0.42
1:p:301:GLU:O	1:p:304:GLU:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:q:78:LEU:O	1:q:82:TYR:HB2	2.19	0.42
1:q:218:ARG:CZ	1:q:264:ALA:HB2	2.49	0.42
1:r:145:ARG:HD3	1:r:145:ARG:HA	1.84	0.42
1:t:218:ARG:CZ	1:t:264:ALA:HB2	2.49	0.42
1:u:79:PHE:HB2	1:u:87:ILE:HG13	2.02	0.42
1:v:130:GLU:HA	1:v:133:ARG:HE	1.85	0.42
1:z:130:GLU:HA	1:z:133:ARG:HE	1.85	0.42
1:0:313:LEU:O	1:0:317:MET:HG2	2.20	0.42
1:2:47:ARG:HH21	1:2:63:ILE:HG12	1.84	0.42
1:2:335:LYS:HE2	1:2:335:LYS:HB3	1.81	0.42
1:3:78:LEU:O	1:3:82:TYR:HB2	2.19	0.42
1:3:130:GLU:HA	1:3:133:ARG:HE	1.85	0.42
1:3:213:LEU:HD11	1:4:227:PHE:CD1	2.55	0.42
1:4:47:ARG:HH21	1:4:63:ILE:HG12	1.84	0.42
1:5:31:THR:HG22	1:5:32:ASP:N	2.30	0.42
1:5:218:ARG:CZ	1:5:264:ALA:HB2	2.49	0.42
1:7:47:ARG:HH21	1:7:63:ILE:HG12	1.84	0.42
1:7:218:ARG:CZ	1:7:264:ALA:HB2	2.49	0.42
1:8:79:PHE:HB2	1:8:87:ILE:HG13	2.02	0.42
1:8:130:GLU:HA	1:8:133:ARG:HE	1.85	0.42
1:8:301:GLU:O	1:8:304:GLU:HG3	2.20	0.42
1:A:79:PHE:HB2	1:A:87:ILE:HG13	2.02	0.42
1:AB:31:THR:HG22	1:AB:32:ASP:N	2.30	0.42
1:AB:256:LEU:HD23	1:AB:256:LEU:HA	1.87	0.42
1:B:130:GLU:HA	1:B:133:ARG:HE	1.85	0.42
1:C:313:LEU:O	1:C:317:MET:HG2	2.20	0.42
1:G:81:LYS:HZ1	1:G:129:SER:HB3	1.85	0.42
1:G:130:GLU:HA	1:G:133:ARG:HE	1.85	0.42
1:H:47:ARG:HH21	1:H:63:ILE:HG12	1.84	0.42
1:H:307:LYS:HA	1:H:307:LYS:HD2	1.80	0.42
1:I:47:ARG:HH21	1:I:63:ILE:HG12	1.85	0.42
1:J:256:LEU:HD23	1:J:256:LEU:HA	1.87	0.42
1:M:130:GLU:HA	1:M:133:ARG:HE	1.85	0.42
1:N:47:ARG:HH21	1:N:63:ILE:HG12	1.84	0.42
1:R:301:GLU:O	1:R:304:GLU:HG3	2.20	0.42
1:S:218:ARG:CZ	1:S:264:ALA:HB2	2.49	0.42
1:T:130:GLU:HA	1:T:133:ARG:HE	1.85	0.42
1:U:130:GLU:HA	1:U:133:ARG:HE	1.85	0.42
1:V:47:ARG:HH21	1:V:63:ILE:HG12	1.84	0.42
1:V:301:GLU:O	1:V:304:GLU:HG3	2.20	0.42
1:Y:51:LYS:HA	1:Y:51:LYS:HD3	1.89	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:79:PHE:HB2	1:a:87:ILE:HG13	2.02	0.42
1:c:313:LEU:O	1:c:317:MET:HG2	2.20	0.42
1:d:301:GLU:O	1:d:304:GLU:HG3	2.20	0.42
1:e:301:GLU:O	1:e:304:GLU:HG3	2.20	0.42
1:f:301:GLU:O	1:f:304:GLU:HG3	2.20	0.42
1:h:368:GLY:HA3	1:i:400:TYR:HB3	2.02	0.42
1:i:218:ARG:CZ	1:i:264:ALA:HB2	2.49	0.42
1:n:301:GLU:O	1:n:304:GLU:HG3	2.20	0.42
1:p:130:GLU:HA	1:p:133:ARG:HE	1.85	0.42
1:p:218:ARG:CZ	1:p:264:ALA:HB2	2.49	0.42
1:p:335:LYS:HE2	1:p:335:LYS:HB3	1.81	0.42
1:q:79:PHE:HB2	1:q:87:ILE:HG13	2.02	0.42
1:q:130:GLU:HA	1:q:133:ARG:HE	1.85	0.42
1:r:301:GLU:O	1:r:304:GLU:HG3	2.20	0.42
1:t:301:GLU:O	1:t:304:GLU:HG3	2.20	0.42
1:t:392:LEU:HD23	1:t:395:LYS:HZ1	1.84	0.42
1:w:346:GLU:O	1:w:350:LYS:HG2	2.19	0.42
1:y:31:THR:HG22	1:y:32:ASP:N	2.30	0.42
1:y:173:ASP:HA	1:y:178:LYS:HB2	2.01	0.42
1:0:309:LYS:HB3	1:0:309:LYS:HE3	1.85	0.42
1:1:130:GLU:HA	1:1:133:ARG:HE	1.85	0.42
1:3:47:ARG:HH21	1:3:63:ILE:HG12	1.84	0.42
1:4:79:PHE:HB2	1:4:87:ILE:HG13	2.02	0.42
1:5:309:LYS:HB3	1:5:309:LYS:HE3	1.85	0.42
1:6:301:GLU:O	1:6:304:GLU:HG3	2.20	0.42
1:8:31:THR:HG22	1:8:32:ASP:N	2.30	0.42
1:AA:79:PHE:HB2	1:AA:87:ILE:HG13	2.02	0.42
1:AA:340:GLU:O	1:AA:344:ARG:HG2	2.18	0.42
1:AB:247:SER:CB	1:b:58:GLN:OE1	2.67	0.42
1:B:301:GLU:O	1:B:304:GLU:HG3	2.20	0.42
1:C:301:GLU:O	1:C:304:GLU:HG3	2.20	0.42
1:D:130:GLU:HA	1:D:133:ARG:HE	1.85	0.42
1:D:346:GLU:O	1:D:350:LYS:HG2	2.19	0.42
1:F:31:THR:HG22	1:F:32:ASP:N	2.30	0.42
1:G:78:LEU:O	1:G:82:TYR:HB2	2.19	0.42
1:G:79:PHE:HB2	1:G:87:ILE:HG13	2.02	0.42
1:I:78:LEU:O	1:I:82:TYR:HB2	2.19	0.42
1:L:130:GLU:HA	1:L:133:ARG:HE	1.85	0.42
1:M:78:LEU:O	1:M:82:TYR:HB2	2.19	0.42
1:P:173:ASP:HA	1:P:178:LYS:HB2	2.01	0.42
1:Z:313:LEU:O	1:Z:317:MET:HG2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c:130:GLU:HA	1:c:133:ARG:HE	1.85	0.42
1:e:59:GLY:HA3	1:e:60:PRO:HD3	1.92	0.42
1:e:79:PHE:HB2	1:e:87:ILE:HG13	2.02	0.42
1:g:313:LEU:O	1:g:317:MET:HG2	2.20	0.42
1:g:346:GLU:O	1:g:350:LYS:HG2	2.19	0.42
1:i:51:LYS:HA	1:i:51:LYS:HD3	1.90	0.42
1:j:313:LEU:O	1:j:317:MET:HG2	2.20	0.42
1:k:47:ARG:HH21	1:k:63:ILE:HG12	1.84	0.42
1:k:81:LYS:HZ1	1:k:129:SER:HB3	1.85	0.42
1:k:313:LEU:O	1:k:317:MET:HG2	2.20	0.42
1:o:145:ARG:HD3	1:o:145:ARG:HA	1.84	0.42
1:o:301:GLU:O	1:o:304:GLU:HG3	2.20	0.42
1:p:145:ARG:HD3	1:p:145:ARG:HA	1.84	0.42
1:p:227:PHE:CG	1:q:213:LEU:HD11	2.55	0.42
1:r:313:LEU:O	1:r:317:MET:HG2	2.20	0.42
1:s:346:GLU:O	1:s:350:LYS:HG2	2.19	0.42
1:w:313:LEU:O	1:w:317:MET:HG2	2.20	0.42
1:z:346:GLU:O	1:z:350:LYS:HG2	2.19	0.42
1:0:47:ARG:HH21	1:0:63:ILE:HG12	1.84	0.41
1:0:79:PHE:HB2	1:0:87:ILE:HG13	2.02	0.41
1:3:145:ARG:HD3	1:3:145:ARG:HA	1.84	0.41
1:4:229:LYS:HE3	1:4:229:LYS:HB3	1.86	0.41
1:6:309:LYS:HB3	1:6:309:LYS:HE3	1.85	0.41
1:7:329:ILE:HD12	1:7:332:ARG:NH1	2.35	0.41
1:8:47:ARG:HH21	1:8:63:ILE:HG12	1.84	0.41
1:9:218:ARG:CZ	1:9:264:ALA:HB2	2.49	0.41
1:9:313:LEU:O	1:9:317:MET:HG2	2.20	0.41
1:A:51:LYS:HD3	1:A:51:LYS:HA	1.90	0.41
1:A:313:LEU:O	1:A:317:MET:HG2	2.20	0.41
1:AA:31:THR:HG22	1:AA:32:ASP:N	2.30	0.41
1:AA:59:GLY:HA3	1:AA:60:PRO:HD3	1.92	0.41
1:AA:130:GLU:HA	1:AA:133:ARG:HE	1.85	0.41
1:AA:256:LEU:HD23	1:AA:256:LEU:HA	1.87	0.41
1:AA:301:GLU:O	1:AA:304:GLU:HG3	2.20	0.41
1:E:130:GLU:HA	1:E:133:ARG:HE	1.85	0.41
1:E:218:ARG:CZ	1:E:264:ALA:HB2	2.49	0.41
1:G:218:ARG:CZ	1:G:264:ALA:HB2	2.49	0.41
1:J:130:GLU:HA	1:J:133:ARG:HE	1.85	0.41
1:P:59:GLY:HA3	1:P:60:PRO:HD3	1.92	0.41
1:Q:47:ARG:HH21	1:Q:63:ILE:HG12	1.84	0.41
1:R:51:LYS:HA	1:R:51:LYS:HD3	1.90	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:47:ARG:HH21	1:S:63:ILE:HG12	1.85	0.41
1:S:136:LEU:HD23	1:S:136:LEU:HA	1.89	0.41
1:T:301:GLU:O	1:T:304:GLU:HG3	2.20	0.41
1:U:301:GLU:O	1:U:304:GLU:HG3	2.20	0.41
1:W:47:ARG:HH21	1:W:63:ILE:HG12	1.84	0.41
1:X:47:ARG:HH21	1:X:63:ILE:HG12	1.84	0.41
1:X:130:GLU:HA	1:X:133:ARG:HE	1.85	0.41
1:Y:130:GLU:HA	1:Y:133:ARG:HE	1.85	0.41
1:Z:173:ASP:HA	1:Z:178:LYS:HB2	2.01	0.41
1:b:301:GLU:O	1:b:304:GLU:HG3	2.20	0.41
1:b:329:ILE:HD12	1:b:332:ARG:NH1	2.35	0.41
1:c:79:PHE:HB2	1:c:87:ILE:HG13	2.02	0.41
1:f:145:ARG:HD3	1:f:145:ARG:HA	1.84	0.41
1:h:79:PHE:HB2	1:h:87:ILE:HG13	2.02	0.41
1:j:173:ASP:HA	1:j:178:LYS:HB2	2.01	0.41
1:n:145:ARG:HD3	1:n:145:ARG:HA	1.84	0.41
1:q:313:LEU:O	1:q:317:MET:HG2	2.20	0.41
1:q:329:ILE:HD12	1:q:332:ARG:NH1	2.35	0.41
1:u:47:ARG:HH21	1:u:63:ILE:HG12	1.84	0.41
1:v:79:PHE:HB2	1:v:87:ILE:HG13	2.02	0.41
1:w:78:LEU:O	1:w:82:TYR:HB2	2.19	0.41
1:z:79:PHE:HB2	1:z:87:ILE:HG13	2.02	0.41
1:2:173:ASP:HA	1:2:178:LYS:HB2	2.01	0.41
1:2:313:LEU:O	1:2:317:MET:HG2	2.20	0.41
1:5:329:ILE:HD12	1:5:332:ARG:NH1	2.35	0.41
1:6:31:THR:HG22	1:6:32:ASP:N	2.30	0.41
1:B:313:LEU:O	1:B:317:MET:HG2	2.20	0.41
1:B:340:GLU:O	1:B:344:ARG:HG2	2.18	0.41
1:D:79:PHE:HB2	1:D:87:ILE:HG13	2.02	0.41
1:E:47:ARG:HH21	1:E:63:ILE:HG12	1.84	0.41
1:E:301:GLU:O	1:E:304:GLU:HG3	2.20	0.41
1:F:130:GLU:HA	1:F:133:ARG:HE	1.85	0.41
1:H:145:ARG:HA	1:H:145:ARG:HD3	1.84	0.41
1:I:79:PHE:HB2	1:I:87:ILE:HG13	2.02	0.41
1:K:301:GLU:O	1:K:304:GLU:HG3	2.20	0.41
1:K:313:LEU:O	1:K:317:MET:HG2	2.20	0.41
1:N:173:ASP:HA	1:N:178:LYS:HB2	2.01	0.41
1:O:130:GLU:HA	1:O:133:ARG:HE	1.85	0.41
1:Q:130:GLU:HA	1:Q:133:ARG:HE	1.85	0.41
1:S:313:LEU:O	1:S:317:MET:HG2	2.20	0.41
1:U:79:PHE:HB2	1:U:87:ILE:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:207:GLN:OE1	1:U:276:LYS:HA	2.21	0.41
1:U:313:LEU:O	1:U:317:MET:HG2	2.20	0.41
1:W:301:GLU:O	1:W:304:GLU:HG3	2.20	0.41
1:X:136:LEU:HD23	1:X:136:LEU:HA	1.89	0.41
1:a:130:GLU:HA	1:a:133:ARG:HE	1.85	0.41
1:a:313:LEU:O	1:a:317:MET:HG2	2.20	0.41
1:e:47:ARG:HH21	1:e:63:ILE:HG12	1.84	0.41
1:e:256:LEU:HD23	1:e:256:LEU:HA	1.87	0.41
1:e:309:LYS:HB3	1:e:309:LYS:HE3	1.85	0.41
1:f:218:ARG:CZ	1:f:264:ALA:HB2	2.49	0.41
1:h:400:TYR:CG	1:i:368:GLY:HA3	2.55	0.41
1:l:301:GLU:O	1:l:304:GLU:HG3	2.20	0.41
1:l:307:LYS:HA	1:l:307:LYS:HD2	1.80	0.41
1:m:335:LYS:HE2	1:m:335:LYS:HB3	1.81	0.41
1:r:329:ILE:HD12	1:r:332:ARG:NH1	2.35	0.41
1:s:136:LEU:HD23	1:s:136:LEU:HA	1.89	0.41
1:x:79:PHE:HB2	1:x:87:ILE:HG13	2.02	0.41
1:x:173:ASP:HA	1:x:178:LYS:HB2	2.01	0.41
1:y:145:ARG:HD3	1:y:145:ARG:HA	1.84	0.41
1:0:207:GLN:OE1	1:0:276:LYS:HA	2.21	0.41
1:2:301:GLU:O	1:2:304:GLU:HG3	2.20	0.41
1:6:130:GLU:HA	1:6:133:ARG:HE	1.85	0.41
1:6:329:ILE:HD12	1:6:332:ARG:NH1	2.35	0.41
1:8:309:LYS:HB3	1:8:309:LYS:HE3	1.85	0.41
1:A:368:GLY:HA2	1:B:400:TYR:CE2	2.55	0.41
1:AA:307:LYS:HA	1:AA:307:LYS:HD2	1.80	0.41
1:AB:79:PHE:HB2	1:AB:87:ILE:HG13	2.02	0.41
1:AB:313:LEU:O	1:AB:317:MET:HG2	2.20	0.41
1:B:329:ILE:HD12	1:B:332:ARG:NH1	2.36	0.41
1:C:213:LEU:HD11	1:D:227:PHE:CD1	2.55	0.41
1:F:309:LYS:HB3	1:F:309:LYS:HE3	1.85	0.41
1:G:136:LEU:HD23	1:G:136:LEU:HA	1.89	0.41
1:H:313:LEU:O	1:H:317:MET:HG2	2.20	0.41
1:I:101:PHE:HD2	1:i:98:LYS:HG3	1.74	0.41
1:I:392:LEU:HD23	1:I:395:LYS:HZ1	1.86	0.41
1:J:51:LYS:HA	1:J:51:LYS:HD3	1.90	0.41
1:L:335:LYS:HE2	1:L:335:LYS:HB3	1.81	0.41
1:M:313:LEU:O	1:M:317:MET:HG2	2.20	0.41
1:M:329:ILE:HD12	1:M:332:ARG:NH1	2.35	0.41
1:N:309:LYS:HB3	1:N:309:LYS:HE3	1.85	0.41
1:R:47:ARG:HH21	1:R:63:ILE:HG12	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:313:LEU:O	1:T:317:MET:HG2	2.20	0.41
1:U:309:LYS:HB3	1:U:309:LYS:HE3	1.85	0.41
1:W:136:LEU:HD23	1:W:136:LEU:HA	1.89	0.41
1:W:207:GLN:OE1	1:W:276:LYS:HA	2.21	0.41
1:Y:47:ARG:HH21	1:Y:63:ILE:HG12	1.84	0.41
1:Z:301:GLU:O	1:Z:304:GLU:HG3	2.20	0.41
1:d:130:GLU:HA	1:d:133:ARG:HE	1.85	0.41
1:e:51:LYS:HA	1:e:51:LYS:HD3	1.89	0.41
1:e:346:GLU:O	1:e:350:LYS:HG2	2.19	0.41
1:g:301:GLU:O	1:g:304:GLU:HG3	2.20	0.41
1:i:79:PHE:HB2	1:i:87:ILE:HG13	2.02	0.41
1:j:79:PHE:HB2	1:j:87:ILE:HG13	2.02	0.41
1:k:301:GLU:O	1:k:304:GLU:HG3	2.20	0.41
1:k:371:PHE:CE2	1:l:234:LEU:HD23	2.55	0.41
1:l:130:GLU:HA	1:l:133:ARG:HE	1.85	0.41
1:m:313:LEU:O	1:m:317:MET:HG2	2.20	0.41
1:n:47:ARG:HH21	1:n:63:ILE:HG12	1.84	0.41
1:q:145:ARG:HA	1:q:145:ARG:HD3	1.84	0.41
1:q:207:GLN:OE1	1:q:276:LYS:HA	2.21	0.41
1:r:207:GLN:OE1	1:r:276:LYS:HA	2.21	0.41
1:s:229:LYS:HE3	1:s:229:LYS:HB3	1.86	0.41
1:s:307:LYS:HA	1:s:307:LYS:HD2	1.80	0.41
1:v:207:GLN:OE1	1:v:276:LYS:HA	2.21	0.41
1:w:79:PHE:HB2	1:w:87:ILE:HG13	2.02	0.41
1:w:329:ILE:HD12	1:w:332:ARG:NH1	2.35	0.41
1:x:130:GLU:HA	1:x:133:ARG:HE	1.85	0.41
1:z:329:ILE:HD12	1:z:332:ARG:NH1	2.35	0.41
1:1:51:LYS:HA	1:1:51:LYS:HD3	1.90	0.41
1:1:301:GLU:O	1:1:304:GLU:HG3	2.20	0.41
1:2:207:GLN:OE1	1:2:276:LYS:HA	2.21	0.41
1:4:335:LYS:HE2	1:4:335:LYS:HB3	1.81	0.41
1:6:79:PHE:HB2	1:6:87:ILE:HG13	2.02	0.41
1:8:59:GLY:HA3	1:8:60:PRO:HD3	1.92	0.41
1:9:329:ILE:HD12	1:9:332:ARG:NH1	2.35	0.41
1:AB:47:ARG:HH21	1:AB:63:ILE:HG12	1.84	0.41
1:AB:307:LYS:HD2	1:AB:307:LYS:HA	1.80	0.41
1:C:207:GLN:OE1	1:C:276:LYS:HA	2.21	0.41
1:F:313:LEU:O	1:F:317:MET:HG2	2.20	0.41
1:H:207:GLN:OE1	1:H:276:LYS:HA	2.21	0.41
1:J:47:ARG:HH21	1:J:63:ILE:HG12	1.84	0.41
1:K:346:GLU:O	1:K:350:LYS:HG2	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:79:PHE:HB2	1:N:87:ILE:HG13	2.02	0.41
1:P:313:LEU:O	1:P:317:MET:HG2	2.20	0.41
1:Q:329:ILE:HD12	1:Q:332:ARG:NH1	2.35	0.41
1:S:130:GLU:HA	1:S:133:ARG:HE	1.85	0.41
1:U:226:ASP:C	1:V:209:HIS:CD2	2.99	0.41
1:U:227:PHE:O	1:U:231:VAL:HG23	2.21	0.41
1:W:218:ARG:CZ	1:W:264:ALA:HB2	2.49	0.41
1:X:59:GLY:HA3	1:X:60:PRO:HD3	1.92	0.41
1:Y:229:LYS:HB3	1:Y:229:LYS:HE3	1.86	0.41
1:b:47:ARG:HH21	1:b:63:ILE:HG12	1.85	0.41
1:d:145:ARG:HD3	1:d:145:ARG:HA	1.84	0.41
1:e:392:LEU:HD23	1:e:395:LYS:HZ1	1.85	0.41
1:f:130:GLU:HA	1:f:133:ARG:HE	1.85	0.41
1:f:309:LYS:HB3	1:f:309:LYS:HE3	1.85	0.41
1:h:313:LEU:O	1:h:317:MET:HG2	2.20	0.41
1:i:301:GLU:O	1:i:304:GLU:HG3	2.20	0.41
1:j:329:ILE:HD12	1:j:332:ARG:NH1	2.35	0.41
1:m:79:PHE:HB2	1:m:87:ILE:HG13	2.02	0.41
1:n:207:GLN:OE1	1:n:276:LYS:HA	2.21	0.41
1:o:81:LYS:HZ1	1:o:129:SER:HB3	1.85	0.41
1:o:313:LEU:O	1:o:317:MET:HG2	2.20	0.41
1:p:207:GLN:OE1	1:p:276:LYS:HA	2.21	0.41
1:r:47:ARG:HH21	1:r:63:ILE:HG12	1.84	0.41
1:r:79:PHE:HB2	1:r:87:ILE:HG13	2.02	0.41
1:x:313:LEU:O	1:x:317:MET:HG2	2.20	0.41
1:y:220:LEU:HD22	1:z:220:LEU:HD22	2.02	0.41
1:y:313:LEU:O	1:y:317:MET:HG2	2.20	0.41
1:3:309:LYS:HB3	1:3:309:LYS:HE3	1.85	0.41
1:3:329:ILE:HD12	1:3:332:ARG:NH1	2.36	0.41
1:5:207:GLN:OE1	1:5:276:LYS:HA	2.21	0.41
1:6:207:GLN:OE1	1:6:276:LYS:HA	2.21	0.41
1:9:47:ARG:HH21	1:9:63:ILE:HG12	1.84	0.41
1:9:207:GLN:OE1	1:9:276:LYS:HA	2.21	0.41
1:AB:323:LYS:HE2	1:AB:323:LYS:HB2	1.92	0.41
1:B:79:PHE:HB2	1:B:87:ILE:HG13	2.02	0.41
1:F:301:GLU:O	1:F:304:GLU:HG3	2.20	0.41
1:I:51:LYS:HA	1:I:51:LYS:HD3	1.89	0.41
1:I:313:LEU:O	1:I:317:MET:HG2	2.20	0.41
1:K:145:ARG:HD3	1:K:145:ARG:HA	1.84	0.41
1:N:301:GLU:O	1:N:304:GLU:HG3	2.20	0.41
1:O:227:PHE:O	1:O:231:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:301:GLU:O	1:O:304:GLU:HG3	2.20	0.41
1:T:227:PHE:O	1:T:231:VAL:HG23	2.21	0.41
1:U:51:LYS:HA	1:U:51:LYS:HD3	1.90	0.41
1:U:218:ARG:CZ	1:U:264:ALA:HB2	2.49	0.41
1:W:227:PHE:O	1:W:231:VAL:HG23	2.21	0.41
1:W:313:LEU:O	1:W:317:MET:HG2	2.20	0.41
1:X:346:GLU:O	1:X:350:LYS:HG2	2.19	0.41
1:Y:301:GLU:O	1:Y:304:GLU:HG3	2.20	0.41
1:Z:207:GLN:OE1	1:Z:276:LYS:HA	2.21	0.41
1:b:313:LEU:O	1:b:317:MET:HG2	2.20	0.41
1:f:329:ILE:HD12	1:f:332:ARG:NH1	2.35	0.41
1:h:301:GLU:O	1:h:304:GLU:HG3	2.20	0.41
1:i:227:PHE:O	1:i:231:VAL:HG23	2.21	0.41
1:i:309:LYS:HE3	1:i:309:LYS:HB3	1.85	0.41
1:i:313:LEU:O	1:i:317:MET:HG2	2.20	0.41
1:l:392:LEU:HD23	1:l:395:LYS:HZ1	1.84	0.41
1:m:301:GLU:O	1:m:304:GLU:HG3	2.20	0.41
1:n:136:LEU:HD23	1:n:136:LEU:HA	1.89	0.41
1:n:226:ASP:C	1:o:209:HIS:CD2	2.99	0.41
1:o:47:ARG:HH21	1:o:63:ILE:HG12	1.84	0.41
1:o:329:ILE:HD12	1:o:332:ARG:NH1	2.35	0.41
1:q:307:LYS:HA	1:q:307:LYS:HD2	1.80	0.41
1:s:207:GLN:OE1	1:s:276:LYS:HA	2.21	0.41
1:u:78:LEU:O	1:u:82:TYR:HB2	2.19	0.41
1:u:130:GLU:HA	1:u:133:ARG:HE	1.85	0.41
1:u:207:GLN:OE1	1:u:276:LYS:HA	2.21	0.41
1:w:226:ASP:C	1:x:209:HIS:CD2	2.99	0.41
1:w:301:GLU:O	1:w:304:GLU:HG3	2.20	0.41
1:y:207:GLN:OE1	1:y:276:LYS:HA	2.21	0.41
1:y:301:GLU:O	1:y:304:GLU:HG3	2.20	0.41
1:z:227:PHE:O	1:z:231:VAL:HG23	2.21	0.41
1:0:227:PHE:O	1:0:231:VAL:HG23	2.21	0.41
1:0:329:ILE:HD12	1:0:332:ARG:NH1	2.35	0.41
1:1:329:ILE:HD12	1:1:332:ARG:NH1	2.36	0.41
1:3:313:LEU:O	1:3:317:MET:HG2	2.20	0.41
1:4:301:GLU:O	1:4:304:GLU:HG3	2.20	0.41
1:4:323:LYS:HE2	1:4:323:LYS:HB2	1.93	0.41
1:7:207:GLN:OE1	1:7:276:LYS:HA	2.21	0.41
1:8:51:LYS:HA	1:8:51:LYS:HD3	1.89	0.41
1:8:329:ILE:HD12	1:8:332:ARG:NH1	2.35	0.41
1:9:248:ASP:O	1:9:252:LYS:HG2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:329:ILE:HD12	1:AA:332:ARG:NH1	2.35	0.41
1:C:329:ILE:HD12	1:C:332:ARG:NH1	2.36	0.41
1:F:81:LYS:HZ1	1:F:129:SER:HB3	1.85	0.41
1:F:329:ILE:HD12	1:F:332:ARG:NH1	2.35	0.41
1:I:227:PHE:O	1:I:231:VAL:HG23	2.21	0.41
1:J:79:PHE:HB2	1:J:87:ILE:HG13	2.02	0.41
1:M:227:PHE:O	1:M:231:VAL:HG23	2.21	0.41
1:N:160:LEU:HD23	1:N:160:LEU:HA	1.95	0.41
1:O:329:ILE:HD12	1:O:332:ARG:NH1	2.36	0.41
1:Q:248:ASP:O	1:Q:252:LYS:HG2	2.21	0.41
1:R:227:PHE:O	1:R:231:VAL:HG23	2.21	0.41
1:S:301:GLU:O	1:S:304:GLU:HG3	2.20	0.41
1:V:130:GLU:HA	1:V:133:ARG:HE	1.85	0.41
1:V:227:PHE:O	1:V:231:VAL:HG23	2.21	0.41
1:X:227:PHE:O	1:X:231:VAL:HG23	2.21	0.41
1:X:301:GLU:O	1:X:304:GLU:HG3	2.20	0.41
1:a:248:ASP:O	1:a:252:LYS:HG2	2.21	0.41
1:a:301:GLU:O	1:a:304:GLU:HG3	2.20	0.41
1:e:145:ARG:HD3	1:e:145:ARG:HA	1.84	0.41
1:e:229:LYS:HE3	1:e:229:LYS:HB3	1.86	0.41
1:e:313:LEU:O	1:e:317:MET:HG2	2.20	0.41
1:e:329:ILE:HD12	1:e:332:ARG:NH1	2.36	0.41
1:f:248:ASP:O	1:f:252:LYS:HG2	2.21	0.41
1:j:136:LEU:HD23	1:j:136:LEU:HA	1.89	0.41
1:k:79:PHE:HB2	1:k:87:ILE:HG13	2.02	0.41
1:k:136:LEU:HD23	1:k:136:LEU:HA	1.89	0.41
1:n:227:PHE:O	1:n:231:VAL:HG23	2.21	0.41
1:p:79:PHE:HB2	1:p:87:ILE:HG13	2.02	0.41
1:p:329:ILE:HD12	1:p:332:ARG:NH1	2.35	0.41
1:t:63:ILE:HD13	1:v:251:THR:HG23	2.02	0.41
1:v:256:LEU:HD23	1:v:256:LEU:HA	1.87	0.41
1:w:207:GLN:OE1	1:w:276:LYS:HA	2.21	0.41
1:0:301:GLU:O	1:0:304:GLU:HG3	2.20	0.41
1:1:47:ARG:HH21	1:1:63:ILE:HG12	1.84	0.41
1:2:51:LYS:HA	1:2:51:LYS:HD3	1.89	0.41
1:3:79:PHE:HB2	1:3:87:ILE:HG13	2.02	0.41
1:3:301:GLU:O	1:3:304:GLU:HG3	2.20	0.41
1:6:313:LEU:O	1:6:317:MET:HG2	2.20	0.41
1:7:248:ASP:O	1:7:252:LYS:HG2	2.21	0.41
1:7:335:LYS:HE2	1:7:335:LYS:HB3	1.81	0.41
1:8:227:PHE:O	1:8:231:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:301:GLU:O	1:9:304:GLU:HG3	2.20	0.41
1:AA:248:ASP:O	1:AA:252:LYS:HG2	2.21	0.41
1:E:313:LEU:O	1:E:317:MET:HG2	2.20	0.41
1:E:323:LYS:HE2	1:E:323:LYS:HB2	1.93	0.41
1:H:160:LEU:HD23	1:H:160:LEU:HA	1.95	0.41
1:H:227:PHE:O	1:H:231:VAL:HG23	2.21	0.41
1:H:248:ASP:O	1:H:252:LYS:HG2	2.21	0.41
1:J:229:LYS:HE3	1:J:229:LYS:HB3	1.86	0.41
1:L:256:LEU:HD23	1:L:256:LEU:HA	1.87	0.41
1:M:79:PHE:HB2	1:M:87:ILE:HG13	2.02	0.41
1:N:227:PHE:O	1:N:231:VAL:HG23	2.21	0.41
1:N:329:ILE:HD12	1:N:332:ARG:NH1	2.35	0.41
1:O:79:PHE:HB2	1:O:87:ILE:HG13	2.02	0.41
1:O:248:ASP:O	1:O:252:LYS:HG2	2.21	0.41
1:O:313:LEU:O	1:O:317:MET:HG2	2.20	0.41
1:Q:301:GLU:O	1:Q:304:GLU:HG3	2.20	0.41
1:R:313:LEU:O	1:R:317:MET:HG2	2.20	0.41
1:R:329:ILE:HD12	1:R:332:ARG:NH1	2.35	0.41
1:c:329:ILE:HD12	1:c:332:ARG:NH1	2.35	0.41
1:e:207:GLN:OE1	1:e:276:LYS:HA	2.21	0.41
1:f:79:PHE:HB2	1:f:87:ILE:HG13	2.02	0.41
1:f:136:LEU:HD23	1:f:136:LEU:HA	1.89	0.41
1:g:207:GLN:OE1	1:g:276:LYS:HA	2.21	0.41
1:h:227:PHE:O	1:h:231:VAL:HG23	2.21	0.41
1:j:301:GLU:O	1:j:304:GLU:HG3	2.20	0.41
1:k:309:LYS:HB3	1:k:309:LYS:HE3	1.85	0.41
1:m:130:GLU:HA	1:m:133:ARG:HE	1.85	0.41
1:n:31:THR:HG22	1:n:32:ASP:N	2.30	0.41
1:n:227:PHE:CD2	1:o:213:LEU:HD11	2.56	0.41
1:n:248:ASP:O	1:n:252:LYS:HG2	2.21	0.41
1:o:130:GLU:HA	1:o:133:ARG:HE	1.85	0.41
1:o:227:PHE:O	1:o:231:VAL:HG23	2.21	0.41
1:p:248:ASP:O	1:p:252:LYS:HG2	2.21	0.41
1:r:227:PHE:O	1:r:231:VAL:HG23	2.21	0.41
1:t:47:ARG:HH21	1:t:63:ILE:HG12	1.84	0.41
1:t:207:GLN:OE1	1:t:276:LYS:HA	2.21	0.41
1:u:313:LEU:O	1:u:317:MET:HG2	2.20	0.41
1:v:47:ARG:HH21	1:v:63:ILE:HG12	1.84	0.41
1:v:307:LYS:HA	1:v:307:LYS:HD2	1.80	0.41
1:v:313:LEU:O	1:v:317:MET:HG2	2.20	0.41
1:x:301:GLU:O	1:x:304:GLU:HG3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:y:229:LYS:HE3	1:y:229:LYS:HB3	1.86	0.41
1:y:256:LEU:HD23	1:y:256:LEU:HA	1.87	0.41
1:1:313:LEU:O	1:1:317:MET:HG2	2.20	0.41
1:3:227:PHE:O	1:3:231:VAL:HG23	2.21	0.41
1:5:227:PHE:O	1:5:231:VAL:HG23	2.21	0.41
1:6:229:LYS:HE3	1:6:229:LYS:HB3	1.86	0.41
1:8:229:LYS:HE3	1:8:229:LYS:HB3	1.86	0.41
1:A:130:GLU:HA	1:A:133:ARG:HE	1.85	0.41
1:A:301:GLU:O	1:A:304:GLU:HG3	2.20	0.41
1:AB:229:LYS:HB3	1:AB:229:LYS:HE3	1.86	0.41
1:B:47:ARG:HH21	1:B:63:ILE:HG12	1.84	0.41
1:B:74:LEU:HD22	1:B:135:PHE:CD2	2.56	0.41
1:B:309:LYS:HB3	1:B:309:LYS:HE3	1.85	0.41
1:C:47:ARG:HH21	1:C:63:ILE:HG12	1.84	0.41
1:C:74:LEU:HD22	1:C:135:PHE:CD2	2.56	0.41
1:D:31:THR:HG22	1:D:32:ASP:N	2.30	0.41
1:D:207:GLN:OE1	1:D:276:LYS:HA	2.21	0.41
1:E:329:ILE:HD12	1:E:332:ARG:NH1	2.35	0.41
1:F:74:LEU:HD22	1:F:135:PHE:CD2	2.56	0.41
1:F:207:GLN:OE1	1:F:276:LYS:HA	2.21	0.41
1:F:227:PHE:O	1:F:231:VAL:HG23	2.21	0.41
1:G:207:GLN:OE1	1:G:276:LYS:HA	2.21	0.41
1:I:230:ALA:HB2	1:J:209:HIS:CE1	2.56	0.41
1:I:301:GLU:O	1:I:304:GLU:HG3	2.20	0.41
1:J:313:LEU:O	1:J:317:MET:HG2	2.20	0.41
1:J:392:LEU:HD23	1:J:395:LYS:HZ1	1.86	0.41
1:K:329:ILE:HD12	1:K:332:ARG:NH1	2.35	0.41
1:L:313:LEU:O	1:L:317:MET:HG2	2.20	0.41
1:M:248:ASP:O	1:M:252:LYS:HG2	2.21	0.41
1:M:301:GLU:O	1:M:304:GLU:HG3	2.20	0.41
1:N:207:GLN:OE1	1:N:276:LYS:HA	2.21	0.41
1:P:79:PHE:HB2	1:P:87:ILE:HG13	2.02	0.41
1:P:329:ILE:HD12	1:P:332:ARG:NH1	2.35	0.41
1:Q:207:GLN:OE1	1:Q:276:LYS:HA	2.21	0.41
1:Q:313:LEU:O	1:Q:317:MET:HG2	2.20	0.41
1:T:47:ARG:HH21	1:T:63:ILE:HG12	1.84	0.41
1:V:313:LEU:O	1:V:317:MET:HG2	2.20	0.41
1:X:207:GLN:OE1	1:X:276:LYS:HA	2.21	0.41
1:X:313:LEU:O	1:X:317:MET:HG2	2.20	0.41
1:Y:329:ILE:HD12	1:Y:332:ARG:NH1	2.35	0.41
1:Z:227:PHE:O	1:Z:231:VAL:HG23	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:47:ARG:HH21	1:a:63:ILE:HG12	1.84	0.41
1:a:309:LYS:HB3	1:a:309:LYS:HE3	1.85	0.41
1:b:227:PHE:O	1:b:231:VAL:HG23	2.21	0.41
1:c:301:GLU:O	1:c:304:GLU:HG3	2.20	0.41
1:d:309:LYS:HB3	1:d:309:LYS:HE3	1.85	0.41
1:f:47:ARG:HH21	1:f:63:ILE:HG12	1.84	0.41
1:f:227:PHE:O	1:f:231:VAL:HG23	2.21	0.41
1:g:79:PHE:HB2	1:g:87:ILE:HG13	2.02	0.41
1:g:227:PHE:O	1:g:231:VAL:HG23	2.21	0.41
1:g:335:LYS:HE2	1:g:335:LYS:HB3	1.81	0.41
1:k:227:PHE:O	1:k:231:VAL:HG23	2.21	0.41
1:k:248:ASP:O	1:k:252:LYS:HG2	2.21	0.41
1:l:256:LEU:HD23	1:l:256:LEU:HA	1.87	0.41
1:m:207:GLN:OE1	1:m:276:LYS:HA	2.21	0.41
1:o:79:PHE:HB2	1:o:87:ILE:HG13	2.02	0.41
1:p:74:LEU:HD22	1:p:135:PHE:CD2	2.56	0.41
1:r:74:LEU:HD22	1:r:135:PHE:CD2	2.56	0.41
1:t:136:LEU:HD23	1:t:136:LEU:HA	1.89	0.41
1:u:153:ILE:HD13	1:u:153:ILE:HA	1.92	0.41
1:u:248:ASP:O	1:u:252:LYS:HG2	2.21	0.41
1:v:145:ARG:HA	1:v:145:ARG:HD3	1.84	0.41
1:v:301:GLU:O	1:v:304:GLU:HG3	2.20	0.41
1:x:329:ILE:HD12	1:x:332:ARG:NH1	2.35	0.41
1:z:207:GLN:OE1	1:z:276:LYS:HA	2.21	0.41
1:0:229:LYS:HB3	1:0:229:LYS:HE3	1.86	0.41
1:0:248:ASP:O	1:0:252:LYS:HG2	2.21	0.41
1:1:248:ASP:O	1:1:252:LYS:HG2	2.21	0.41
1:5:307:LYS:HA	1:5:307:LYS:HD2	1.80	0.41
1:5:313:LEU:O	1:5:317:MET:HG2	2.20	0.41
1:6:145:ARG:HD3	1:6:145:ARG:HA	1.84	0.41
1:6:227:PHE:O	1:6:231:VAL:HG23	2.21	0.41
1:8:317:MET:O	1:8:320:ARG:HD3	2.21	0.41
1:AA:227:PHE:O	1:AA:231:VAL:HG23	2.21	0.41
1:AB:227:PHE:O	1:AB:231:VAL:HG23	2.21	0.41
1:AB:248:ASP:O	1:AB:252:LYS:HG2	2.21	0.41
1:AB:301:GLU:O	1:AB:304:GLU:HG3	2.20	0.41
1:AB:329:ILE:HD12	1:AB:332:ARG:NH1	2.35	0.41
1:B:207:GLN:OE1	1:B:276:LYS:HA	2.21	0.41
1:C:81:LYS:HZ1	1:C:129:SER:HB3	1.86	0.41
1:D:301:GLU:O	1:D:304:GLU:HG3	2.20	0.41
1:E:79:PHE:HB2	1:E:87:ILE:HG13	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:227:PHE:O	1:E:231:VAL:HG23	2.21	0.41
1:E:248:ASP:O	1:E:252:LYS:HG2	2.21	0.41
1:E:307:LYS:HD2	1:E:307:LYS:HA	1.80	0.41
1:E:317:MET:O	1:E:320:ARG:HD3	2.21	0.41
1:G:227:PHE:O	1:G:231:VAL:HG23	2.21	0.41
1:G:248:ASP:O	1:G:252:LYS:HG2	2.21	0.41
1:G:317:MET:O	1:G:320:ARG:HD3	2.21	0.41
1:H:329:ILE:HD12	1:H:332:ARG:NH1	2.36	0.41
1:I:329:ILE:HD12	1:I:332:ARG:NH1	2.35	0.41
1:I:400:TYR:CE2	1:J:368:GLY:HA2	2.55	0.41
1:K:207:GLN:OE1	1:K:276:LYS:HA	2.21	0.41
1:N:313:LEU:O	1:N:317:MET:HG2	2.20	0.41
1:P:45:SER:HB2	1:P:65:ILE:HG13	2.03	0.41
1:R:207:GLN:OE1	1:R:276:LYS:HA	2.21	0.41
1:R:309:LYS:HB3	1:R:309:LYS:HE3	1.85	0.41
1:R:317:MET:O	1:R:320:ARG:HD3	2.21	0.41
1:S:79:PHE:HB2	1:S:87:ILE:HG13	2.02	0.41
1:S:248:ASP:O	1:S:252:LYS:HG2	2.21	0.41
1:S:329:ILE:HD12	1:S:332:ARG:NH1	2.36	0.41
1:T:81:LYS:HZ1	1:T:129:SER:HB3	1.86	0.41
1:T:317:MET:O	1:T:320:ARG:HD3	2.21	0.41
1:V:145:ARG:HD3	1:V:145:ARG:HA	1.84	0.41
1:V:329:ILE:HD12	1:V:332:ARG:NH1	2.35	0.41
1:W:79:PHE:HB2	1:W:87:ILE:HG13	2.02	0.41
1:W:317:MET:O	1:W:320:ARG:HD3	2.21	0.41
1:X:51:LYS:HA	1:X:51:LYS:HD3	1.90	0.41
1:X:74:LEU:HD22	1:X:135:PHE:CD2	2.56	0.41
1:X:229:LYS:HE3	1:X:229:LYS:HB3	1.86	0.41
1:X:248:ASP:O	1:X:252:LYS:HG2	2.21	0.41
1:Y:248:ASP:O	1:Y:252:LYS:HG2	2.21	0.41
1:Y:313:LEU:O	1:Y:317:MET:HG2	2.20	0.41
1:b:207:GLN:OE1	1:b:276:LYS:HA	2.21	0.41
1:b:323:LYS:HE2	1:b:323:LYS:HB2	1.93	0.41
1:c:47:ARG:HH21	1:c:63:ILE:HG12	1.84	0.41
1:c:207:GLN:OE1	1:c:276:LYS:HA	2.21	0.41
1:d:207:GLN:OE1	1:d:276:LYS:HA	2.21	0.41
1:d:296:PHE:HB2	1:d:345:PHE:CE1	2.56	0.41
1:d:313:LEU:O	1:d:317:MET:HG2	2.20	0.41
1:f:31:THR:HG22	1:f:32:ASP:N	2.30	0.41
1:g:51:LYS:HA	1:g:51:LYS:HD3	1.90	0.41
1:g:74:LEU:HD22	1:g:135:PHE:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i:207:GLN:OE1	1:i:276:LYS:HA	2.21	0.41
1:i:329:ILE:HD12	1:i:332:ARG:NH1	2.35	0.41
1:j:45:SER:HB2	1:j:65:ILE:HG13	2.03	0.41
1:j:227:PHE:O	1:j:231:VAL:HG23	2.21	0.41
1:k:130:GLU:HA	1:k:133:ARG:HE	1.85	0.41
1:l:227:PHE:O	1:l:231:VAL:HG23	2.21	0.41
1:m:145:ARG:HD3	1:m:145:ARG:HA	1.84	0.41
1:n:74:LEU:HD22	1:n:135:PHE:CD2	2.56	0.41
1:n:229:LYS:HB3	1:n:229:LYS:HE3	1.86	0.41
1:n:313:LEU:O	1:n:317:MET:HG2	2.20	0.41
1:n:317:MET:O	1:n:320:ARG:HD3	2.21	0.41
1:n:329:ILE:HD12	1:n:332:ARG:NH1	2.35	0.41
1:o:335:LYS:HE2	1:o:335:LYS:HB3	1.81	0.41
1:p:47:ARG:HH21	1:p:63:ILE:HG12	1.85	0.41
1:p:313:LEU:O	1:p:317:MET:HG2	2.20	0.41
1:q:47:ARG:HH21	1:q:63:ILE:HG12	1.84	0.41
1:q:227:PHE:O	1:q:231:VAL:HG23	2.21	0.41
1:s:47:ARG:HH21	1:s:63:ILE:HG12	1.84	0.41
1:s:79:PHE:HB2	1:s:87:ILE:HG13	2.02	0.41
1:s:248:ASP:O	1:s:252:LYS:HG2	2.21	0.41
1:t:227:PHE:O	1:t:231:VAL:HG23	2.21	0.41
1:t:313:LEU:O	1:t:317:MET:HG2	2.20	0.41
1:v:153:ILE:HD13	1:v:153:ILE:HA	1.92	0.41
1:v:248:ASP:O	1:v:252:LYS:HG2	2.21	0.41
1:v:329:ILE:HD12	1:v:332:ARG:NH1	2.35	0.41
1:x:227:PHE:O	1:x:231:VAL:HG23	2.21	0.41
1:y:79:PHE:HB2	1:y:87:ILE:HG13	2.02	0.41
1:z:248:ASP:O	1:z:252:LYS:HG2	2.21	0.41
1:z:256:LEU:HD23	1:z:256:LEU:HA	1.87	0.41
1:2:256:LEU:HD23	1:2:256:LEU:HA	1.87	0.41
1:3:296:PHE:HB2	1:3:345:PHE:CE1	2.56	0.41
1:4:207:GLN:OE1	1:4:276:LYS:HA	2.21	0.41
1:4:313:LEU:O	1:4:317:MET:HG2	2.20	0.41
1:5:216:ARG:HG3	1:6:223:SER:HB2	2.03	0.41
1:5:301:GLU:O	1:5:304:GLU:HG3	2.20	0.41
1:5:317:MET:O	1:5:320:ARG:HD3	2.21	0.41
1:7:301:GLU:O	1:7:304:GLU:HG3	2.20	0.41
1:8:81:LYS:HZ1	1:8:129:SER:HB3	1.86	0.41
1:8:207:GLN:OE1	1:8:276:LYS:HA	2.21	0.41
1:A:248:ASP:O	1:A:252:LYS:HG2	2.21	0.41
1:AA:45:SER:HB2	1:AA:65:ILE:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:207:GLN:OE1	1:AA:276:LYS:HA	2.21	0.41
1:AB:207:GLN:OE1	1:AB:276:LYS:HA	2.21	0.41
1:B:227:PHE:O	1:B:231:VAL:HG23	2.21	0.41
1:D:248:ASP:O	1:D:252:LYS:HG2	2.21	0.41
1:E:256:LEU:HD23	1:E:256:LEU:HA	1.87	0.41
1:E:368:GLY:CA	1:F:400:TYR:CG	3.04	0.41
1:F:248:ASP:O	1:F:252:LYS:HG2	2.21	0.41
1:G:47:ARG:HH21	1:G:63:ILE:HG12	1.84	0.41
1:G:329:ILE:HD12	1:G:332:ARG:NH1	2.35	0.41
1:J:207:GLN:OE1	1:J:276:LYS:HA	2.21	0.41
1:J:227:PHE:O	1:J:231:VAL:HG23	2.21	0.41
1:J:329:ILE:HD12	1:J:332:ARG:NH1	2.35	0.41
1:K:227:PHE:O	1:K:231:VAL:HG23	2.21	0.41
1:N:74:LEU:HD22	1:N:135:PHE:CD2	2.56	0.41
1:O:207:GLN:OE1	1:O:276:LYS:HA	2.21	0.41
1:O:335:LYS:HE2	1:O:335:LYS:HB3	1.81	0.41
1:P:301:GLU:O	1:P:304:GLU:HG3	2.20	0.41
1:Q:371:PHE:HE2	1:R:234:LEU:HD23	1.84	0.41
1:S:207:GLN:OE1	1:S:276:LYS:HA	2.21	0.41
1:U:329:ILE:HD12	1:U:332:ARG:NH1	2.35	0.41
1:V:79:PHE:HB2	1:V:87:ILE:HG13	2.02	0.41
1:W:248:ASP:O	1:W:252:LYS:HG2	2.21	0.41
1:X:307:LYS:HA	1:X:307:LYS:HD2	1.80	0.41
1:Y:207:GLN:OE1	1:Y:276:LYS:HA	2.21	0.41
1:Z:296:PHE:HB2	1:Z:345:PHE:CE1	2.56	0.41
1:b:248:ASP:O	1:b:252:LYS:HG2	2.21	0.41
1:d:74:LEU:HD22	1:d:135:PHE:CD2	2.56	0.41
1:d:329:ILE:HD12	1:d:332:ARG:NH1	2.36	0.41
1:e:296:PHE:HB2	1:e:345:PHE:CE1	2.56	0.41
1:f:317:MET:O	1:f:320:ARG:HD3	2.21	0.41
1:h:51:LYS:HA	1:h:51:LYS:HD3	1.90	0.41
1:h:329:ILE:HD12	1:h:332:ARG:NH1	2.35	0.41
1:i:74:LEU:HD22	1:i:135:PHE:CD2	2.56	0.41
1:l:45:SER:HB2	1:l:65:ILE:HG13	2.03	0.41
1:m:45:SER:HB2	1:m:65:ILE:HG13	2.03	0.41
1:m:262:LYS:HA	1:m:265:GLN:CD	2.46	0.41
1:q:74:LEU:HD22	1:q:135:PHE:CD2	2.56	0.41
1:q:248:ASP:O	1:q:252:LYS:HG2	2.21	0.41
1:u:329:ILE:HD12	1:u:332:ARG:NH1	2.35	0.41
1:v:317:MET:O	1:v:320:ARG:HD3	2.21	0.41
1:x:45:SER:HB2	1:x:65:ILE:HG13	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:x:160:LEU:HD23	1:x:160:LEU:HA	1.95	0.41
1:x:207:GLN:OE1	1:x:276:LYS:HA	2.21	0.41
1:z:313:LEU:O	1:z:317:MET:HG2	2.20	0.41
1:1:79:PHE:HB2	1:1:87:ILE:HG13	2.02	0.40
1:1:227:PHE:O	1:1:231:VAL:HG23	2.21	0.40
1:2:45:SER:HB2	1:2:65:ILE:HG13	2.04	0.40
1:3:248:ASP:O	1:3:252:LYS:HG2	2.21	0.40
1:6:45:SER:HB2	1:6:65:ILE:HG13	2.03	0.40
1:6:59:GLY:HA3	1:6:60:PRO:HD3	1.92	0.40
1:6:296:PHE:HB2	1:6:345:PHE:CE1	2.56	0.40
1:7:313:LEU:O	1:7:317:MET:HG2	2.20	0.40
1:A:207:GLN:OE1	1:A:276:LYS:HA	2.21	0.40
1:A:329:ILE:HD12	1:A:332:ARG:NH1	2.35	0.40
1:AA:296:PHE:HB2	1:AA:345:PHE:CE1	2.56	0.40
1:B:51:LYS:HD3	1:B:51:LYS:HA	1.90	0.40
1:B:296:PHE:HB2	1:B:345:PHE:CE1	2.56	0.40
1:D:74:LEU:HD22	1:D:135:PHE:CD2	2.56	0.40
1:G:74:LEU:HD22	1:G:135:PHE:CD2	2.56	0.40
1:J:248:ASP:O	1:J:252:LYS:HG2	2.21	0.40
1:J:301:GLU:O	1:J:304:GLU:HG3	2.20	0.40
1:K:248:ASP:O	1:K:252:LYS:HG2	2.21	0.40
1:P:227:PHE:O	1:P:231:VAL:HG23	2.21	0.40
1:Q:63:ILE:HD13	1:T:251:THR:HG23	2.02	0.40
1:Q:296:PHE:HB2	1:Q:345:PHE:CE1	2.56	0.40
1:S:81:LYS:HE2	1:S:82:TYR:CE2	2.57	0.40
1:S:296:PHE:HB2	1:S:345:PHE:CE1	2.57	0.40
1:T:45:SER:HB2	1:T:65:ILE:HG13	2.03	0.40
1:U:317:MET:O	1:U:320:ARG:HD3	2.21	0.40
1:V:45:SER:HB2	1:V:65:ILE:HG13	2.03	0.40
1:V:296:PHE:HB2	1:V:345:PHE:CE1	2.56	0.40
1:X:79:PHE:HB2	1:X:87:ILE:HG13	2.02	0.40
1:X:296:PHE:HB2	1:X:345:PHE:CE1	2.56	0.40
1:Z:45:SER:HB2	1:Z:65:ILE:HG13	2.03	0.40
1:Z:317:MET:O	1:Z:320:ARG:HD3	2.21	0.40
1:a:207:GLN:OE1	1:a:276:LYS:HA	2.21	0.40
1:b:317:MET:O	1:b:320:ARG:HD3	2.21	0.40
1:c:227:PHE:O	1:c:231:VAL:HG23	2.21	0.40
1:c:262:LYS:HA	1:c:265:GLN:CD	2.47	0.40
1:d:47:ARG:HH21	1:d:63:ILE:HG12	1.84	0.40
1:f:74:LEU:HD22	1:f:135:PHE:CD2	2.56	0.40
1:f:207:GLN:OE1	1:f:276:LYS:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:307:LYS:HA	1:f:307:LYS:HD2	1.80	0.40
1:j:74:LEU:HD22	1:j:135:PHE:CD2	2.56	0.40
1:k:81:LYS:HE2	1:k:82:TYR:CE2	2.57	0.40
1:l:81:LYS:HE2	1:l:82:TYR:CE2	2.57	0.40
1:l:317:MET:O	1:l:320:ARG:HD3	2.21	0.40
1:m:81:LYS:HE2	1:m:82:TYR:CE2	2.57	0.40
1:m:329:ILE:HD12	1:m:332:ARG:NH1	2.35	0.40
1:n:81:LYS:HE2	1:n:82:TYR:CE2	2.56	0.40
1:o:296:PHE:HB2	1:o:345:PHE:CE1	2.56	0.40
1:p:81:LYS:HE2	1:p:82:TYR:CE2	2.57	0.40
1:p:81:LYS:HZ1	1:p:129:SER:HB3	1.86	0.40
1:p:227:PHE:O	1:p:231:VAL:HG23	2.21	0.40
1:p:317:MET:O	1:p:320:ARG:HD3	2.21	0.40
1:q:45:SER:HB2	1:q:65:ILE:HG13	2.03	0.40
1:q:301:GLU:O	1:q:304:GLU:HG3	2.20	0.40
1:s:262:LYS:HA	1:s:265:GLN:CD	2.46	0.40
1:s:301:GLU:O	1:s:304:GLU:HG3	2.20	0.40
1:s:313:LEU:O	1:s:317:MET:HG2	2.20	0.40
1:u:317:MET:O	1:u:320:ARG:HD3	2.21	0.40
1:y:45:SER:HB2	1:y:65:ILE:HG13	2.03	0.40
1:z:301:GLU:O	1:z:304:GLU:HG3	2.20	0.40
1:0:81:LYS:HZ1	1:0:129:SER:HB3	1.85	0.40
1:0:317:MET:O	1:0:320:ARG:HD3	2.21	0.40
1:2:227:PHE:O	1:2:231:VAL:HG23	2.21	0.40
1:2:317:MET:O	1:2:320:ARG:HD3	2.21	0.40
1:3:51:LYS:HA	1:3:51:LYS:HD3	1.90	0.40
1:3:81:LYS:HZ1	1:3:129:SER:HB3	1.85	0.40
1:5:145:ARG:HA	1:5:145:ARG:HD3	1.84	0.40
1:5:248:ASP:O	1:5:252:LYS:HG2	2.21	0.40
1:6:74:LEU:HD22	1:6:135:PHE:CD2	2.56	0.40
1:6:317:MET:O	1:6:320:ARG:HD3	2.21	0.40
1:8:45:SER:HB2	1:8:65:ILE:HG13	2.03	0.40
1:9:227:PHE:O	1:9:231:VAL:HG23	2.21	0.40
1:A:335:LYS:HE2	1:A:335:LYS:HB3	1.81	0.40
1:AA:74:LEU:HD22	1:AA:135:PHE:CD2	2.56	0.40
1:C:262:LYS:HA	1:C:265:GLN:CD	2.47	0.40
1:D:145:ARG:HA	1:D:145:ARG:HD3	1.84	0.40
1:D:227:PHE:O	1:D:231:VAL:HG23	2.21	0.40
1:D:317:MET:O	1:D:320:ARG:HD3	2.21	0.40
1:D:329:ILE:HD12	1:D:332:ARG:NH1	2.35	0.40
1:E:207:GLN:OE1	1:E:276:LYS:HA	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:262:LYS:HA	1:E:265:GLN:CD	2.47	0.40
1:G:313:LEU:O	1:G:317:MET:HG2	2.20	0.40
1:H:130:GLU:HA	1:H:133:ARG:HE	1.85	0.40
1:I:81:LYS:HE2	1:I:82:TYR:CE2	2.56	0.40
1:K:220:LEU:HD22	1:L:220:LEU:HD22	2.02	0.40
1:M:81:LYS:HE2	1:M:82:TYR:CE2	2.57	0.40
1:M:296:PHE:HB2	1:M:345:PHE:CE1	2.56	0.40
1:M:317:MET:O	1:M:320:ARG:HD3	2.21	0.40
1:N:45:SER:HB2	1:N:65:ILE:HG13	2.03	0.40
1:P:296:PHE:HB2	1:P:345:PHE:CE1	2.56	0.40
1:Q:79:PHE:HB2	1:Q:87:ILE:HG13	2.02	0.40
1:Q:307:LYS:HA	1:Q:307:LYS:HD2	1.80	0.40
1:R:45:SER:HB2	1:R:65:ILE:HG13	2.03	0.40
1:U:248:ASP:O	1:U:252:LYS:HG2	2.21	0.40
1:W:74:LEU:HD22	1:W:135:PHE:CD2	2.56	0.40
1:W:81:LYS:HE2	1:W:82:TYR:CE2	2.57	0.40
1:X:329:ILE:HD12	1:X:332:ARG:NH1	2.35	0.40
1:a:229:LYS:HB3	1:a:229:LYS:HE3	1.86	0.40
1:b:45:SER:HB2	1:b:65:ILE:HG13	2.03	0.40
1:b:74:LEU:HD22	1:b:135:PHE:CD2	2.56	0.40
1:c:335:LYS:HE2	1:c:335:LYS:HB3	1.81	0.40
1:d:317:MET:O	1:d:320:ARG:HD3	2.21	0.40
1:e:45:SER:HB2	1:e:65:ILE:HG13	2.03	0.40
1:e:248:ASP:O	1:e:252:LYS:HG2	2.21	0.40
1:e:262:LYS:HA	1:e:265:GLN:CD	2.47	0.40
1:e:317:MET:O	1:e:320:ARG:HD3	2.21	0.40
1:i:130:GLU:HA	1:i:133:ARG:HE	1.85	0.40
1:i:248:ASP:O	1:i:252:LYS:HG2	2.21	0.40
1:i:256:LEU:HD23	1:i:256:LEU:HA	1.87	0.40
1:i:317:MET:O	1:i:320:ARG:HD3	2.21	0.40
1:j:296:PHE:HB2	1:j:345:PHE:CE1	2.56	0.40
1:k:296:PHE:HB2	1:k:345:PHE:CE1	2.56	0.40
1:m:47:ARG:HH21	1:m:63:ILE:HG12	1.84	0.40
1:m:227:PHE:O	1:m:231:VAL:HG23	2.21	0.40
1:m:256:LEU:HD23	1:m:256:LEU:HA	1.87	0.40
1:m:317:MET:O	1:m:320:ARG:HD3	2.21	0.40
1:n:79:PHE:HB2	1:n:87:ILE:HG13	2.02	0.40
1:n:231:VAL:HG11	1:n:249:LEU:HD22	2.04	0.40
1:o:153:ILE:HD13	1:o:153:ILE:HA	1.92	0.40
1:p:231:VAL:HG11	1:p:249:LEU:HD22	2.04	0.40
1:q:59:GLY:HA3	1:q:60:PRO:HD3	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:r:81:LYS:HE2	1:r:82:TYR:CE2	2.57	0.40
1:r:262:LYS:HA	1:r:265:GLN:CD	2.47	0.40
1:t:45:SER:HB2	1:t:65:ILE:HG13	2.03	0.40
1:t:248:ASP:O	1:t:252:LYS:HG2	2.21	0.40
1:t:296:PHE:HB2	1:t:345:PHE:CE1	2.56	0.40
1:t:317:MET:O	1:t:320:ARG:HD3	2.21	0.40
1:t:329:ILE:HD12	1:t:332:ARG:NH1	2.35	0.40
1:v:74:LEU:HD22	1:v:135:PHE:CD2	2.56	0.40
1:w:45:SER:HB2	1:w:65:ILE:HG13	2.04	0.40
1:y:317:MET:O	1:y:320:ARG:HD3	2.21	0.40
1:y:329:ILE:HD12	1:y:332:ARG:NH1	2.35	0.40
1:0:231:VAL:HG11	1:0:249:LEU:HD22	2.04	0.40
1:1:207:GLN:OE1	1:1:276:LYS:HA	2.21	0.40
1:1:296:PHE:HB2	1:1:345:PHE:CE1	2.56	0.40
1:1:309:LYS:HB3	1:1:309:LYS:HE3	1.85	0.40
1:2:74:LEU:HD22	1:2:135:PHE:CD2	2.56	0.40
1:2:81:LYS:HE2	1:2:82:TYR:CE2	2.57	0.40
1:2:309:LYS:HE3	1:2:309:LYS:HB3	1.85	0.40
1:3:81:LYS:HE2	1:3:82:TYR:CE2	2.57	0.40
1:3:182:VAL:HG23	1:x:319:THR:HA	2.02	0.40
1:4:45:SER:HB2	1:4:65:ILE:HG13	2.04	0.40
1:4:81:LYS:HE2	1:4:82:TYR:CE2	2.57	0.40
1:4:227:PHE:O	1:4:231:VAL:HG23	2.21	0.40
1:4:317:MET:O	1:4:320:ARG:HD3	2.21	0.40
1:4:329:ILE:HD12	1:4:332:ARG:NH1	2.35	0.40
1:5:74:LEU:HD22	1:5:135:PHE:CD2	2.56	0.40
1:7:227:PHE:O	1:7:231:VAL:HG23	2.21	0.40
1:7:231:VAL:HG11	1:7:249:LEU:HD22	2.04	0.40
1:7:317:MET:O	1:7:320:ARG:HD3	2.21	0.40
1:8:262:LYS:HA	1:8:265:GLN:CD	2.47	0.40
1:A:47:ARG:HH21	1:A:63:ILE:HG12	1.84	0.40
1:A:136:LEU:HD23	1:A:136:LEU:HA	1.89	0.40
1:AA:313:LEU:O	1:AA:317:MET:HG2	2.20	0.40
1:AB:231:VAL:HG11	1:AB:249:LEU:HD22	2.04	0.40
1:B:81:LYS:HE2	1:B:82:TYR:CE2	2.57	0.40
1:B:248:ASP:O	1:B:252:LYS:HG2	2.21	0.40
1:B:262:LYS:HA	1:B:265:GLN:CD	2.47	0.40
1:B:307:LYS:HD2	1:B:307:LYS:HA	1.80	0.40
1:B:317:MET:O	1:B:320:ARG:HD3	2.21	0.40
1:C:227:PHE:O	1:C:231:VAL:HG23	2.21	0.40
1:C:231:VAL:HG11	1:C:249:LEU:HD22	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:79:PHE:HB2	1:F:87:ILE:HG13	2.02	0.40
1:F:81:LYS:HE2	1:F:82:TYR:CE2	2.57	0.40
1:F:231:VAL:HG11	1:F:249:LEU:HD22	2.04	0.40
1:H:74:LEU:HD22	1:H:135:PHE:CD2	2.56	0.40
1:H:301:GLU:O	1:H:304:GLU:HG3	2.20	0.40
1:I:248:ASP:O	1:I:252:LYS:HG2	2.21	0.40
1:J:296:PHE:HB2	1:J:345:PHE:CE1	2.56	0.40
1:J:317:MET:O	1:J:320:ARG:HD3	2.21	0.40
1:L:79:PHE:HB2	1:L:87:ILE:HG13	2.02	0.40
1:L:227:PHE:O	1:L:231:VAL:HG23	2.21	0.40
1:L:301:GLU:O	1:L:304:GLU:HG3	2.20	0.40
1:N:81:LYS:HZ1	1:N:129:SER:HB3	1.86	0.40
1:N:262:LYS:HA	1:N:265:GLN:CD	2.47	0.40
1:O:81:LYS:HE2	1:O:82:TYR:CE2	2.57	0.40
1:O:296:PHE:HB2	1:O:345:PHE:CE1	2.56	0.40
1:O:317:MET:O	1:O:320:ARG:HD3	2.21	0.40
1:Q:81:LYS:HE2	1:Q:82:TYR:CE2	2.57	0.40
1:S:227:PHE:O	1:S:231:VAL:HG23	2.21	0.40
1:T:35:LYS:HG2	1:T:42:ALA:HB1	2.04	0.40
1:T:81:LYS:HE2	1:T:82:TYR:CE2	2.57	0.40
1:T:262:LYS:HA	1:T:265:GLN:CD	2.47	0.40
1:U:262:LYS:HA	1:U:265:GLN:CD	2.47	0.40
1:V:59:GLY:HA3	1:V:60:PRO:HD3	1.92	0.40
1:V:81:LYS:HE2	1:V:82:TYR:CE2	2.57	0.40
1:V:231:VAL:HG11	1:V:249:LEU:HD22	2.04	0.40
1:X:231:VAL:HG11	1:X:249:LEU:HD22	2.04	0.40
1:Z:51:LYS:HA	1:Z:51:LYS:HD3	1.90	0.40
1:Z:81:LYS:HE2	1:Z:82:TYR:CE2	2.57	0.40
1:a:227:PHE:O	1:a:231:VAL:HG23	2.21	0.40
1:a:329:ILE:HD12	1:a:332:ARG:NH1	2.36	0.40
1:d:79:PHE:HB2	1:d:87:ILE:HG13	2.02	0.40
1:f:231:VAL:HG11	1:f:249:LEU:HD22	2.04	0.40
1:g:130:GLU:HA	1:g:133:ARG:HE	1.85	0.40
1:g:231:VAL:HG11	1:g:249:LEU:HD22	2.04	0.40
1:h:81:LYS:HE2	1:h:82:TYR:CE2	2.57	0.40
1:h:248:ASP:O	1:h:252:LYS:HG2	2.21	0.40
1:i:45:SER:HB2	1:i:65:ILE:HG13	2.04	0.40
1:j:35:LYS:HG2	1:j:42:ALA:HB1	2.04	0.40
1:k:63:ILE:HD13	1:m:251:THR:HG23	2.02	0.40
1:l:47:ARG:HH21	1:l:63:ILE:HG12	1.85	0.40
1:l:262:LYS:HA	1:l:265:GLN:CD	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:323:LYS:HE2	1:l:323:LYS:HB2	1.92	0.40
1:o:207:GLN:OE1	1:o:276:LYS:HA	2.21	0.40
1:p:296:PHE:HB2	1:p:345:PHE:CE1	2.56	0.40
1:r:231:VAL:HG11	1:r:249:LEU:HD22	2.04	0.40
1:r:317:MET:O	1:r:320:ARG:HD3	2.21	0.40
1:s:227:PHE:O	1:s:231:VAL:HG23	2.21	0.40
1:t:74:LEU:HD22	1:t:135:PHE:CD2	2.56	0.40
1:u:227:PHE:O	1:u:231:VAL:HG23	2.21	0.40
1:u:256:LEU:HD23	1:u:256:LEU:HA	1.87	0.40
1:u:296:PHE:HB2	1:u:345:PHE:CE1	2.56	0.40
1:w:35:LYS:HG2	1:w:42:ALA:HB1	2.04	0.40
1:w:145:ARG:HD3	1:w:145:ARG:HA	1.84	0.40
1:y:248:ASP:O	1:y:252:LYS:HG2	2.21	0.40
1:y:296:PHE:HB2	1:y:345:PHE:CE1	2.56	0.40
1:z:296:PHE:HB2	1:z:345:PHE:CE1	2.56	0.40
1:0:227:PHE:CG	1:AA:213:LEU:HD11	2.56	0.40
1:0:262:LYS:HA	1:0:265:GLN:CD	2.47	0.40
1:1:81:LYS:HE2	1:1:82:TYR:CE2	2.57	0.40
1:2:296:PHE:HB2	1:2:345:PHE:CE1	2.56	0.40
1:3:311:ILE:HD13	1:x:311:ILE:CD1	2.51	0.40
1:4:35:LYS:HG2	1:4:42:ALA:HB1	2.04	0.40
1:4:74:LEU:HD22	1:4:135:PHE:CD2	2.56	0.40
1:5:63:ILE:HD13	1:8:251:THR:HG23	2.02	0.40
1:7:74:LEU:HD22	1:7:135:PHE:CD2	2.56	0.40
1:7:81:LYS:HE2	1:7:82:TYR:CE2	2.57	0.40
1:7:296:PHE:HB2	1:7:345:PHE:CE1	2.56	0.40
1:8:313:LEU:O	1:8:317:MET:HG2	2.20	0.40
1:9:74:LEU:HD22	1:9:135:PHE:CD2	2.56	0.40
1:A:262:LYS:HA	1:A:265:GLN:CD	2.47	0.40
1:AA:35:LYS:HG2	1:AA:42:ALA:HB1	2.04	0.40
1:AA:81:LYS:HE2	1:AA:82:TYR:CE2	2.56	0.40
1:AB:74:LEU:HD22	1:AB:135:PHE:CD2	2.56	0.40
1:AB:317:MET:O	1:AB:320:ARG:HD3	2.21	0.40
1:C:81:LYS:HE2	1:C:82:TYR:CE2	2.57	0.40
1:F:317:MET:O	1:F:320:ARG:HD3	2.21	0.40
1:H:229:LYS:HE3	1:H:229:LYS:HB3	1.86	0.40
1:H:317:MET:O	1:H:320:ARG:HD3	2.21	0.40
1:H:356:ILE:HD12	1:H:356:ILE:HA	1.98	0.40
1:J:81:LYS:HE2	1:J:82:TYR:CE2	2.57	0.40
1:J:309:LYS:HB3	1:J:309:LYS:HE3	1.85	0.40
1:L:248:ASP:O	1:L:252:LYS:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:81:LYS:HE2	1:N:82:TYR:CE2	2.57	0.40
1:N:248:ASP:O	1:N:252:LYS:HG2	2.21	0.40
1:P:35:LYS:HG2	1:P:42:ALA:HB1	2.04	0.40
1:Q:229:LYS:HB3	1:Q:229:LYS:HE3	1.86	0.40
1:R:262:LYS:HA	1:R:265:GLN:CD	2.47	0.40
1:T:196:ILE:HD13	1:T:196:ILE:HA	1.95	0.40
1:U:231:VAL:HG11	1:U:249:LEU:HD22	2.04	0.40
1:U:307:LYS:HA	1:U:307:LYS:HD2	1.80	0.40
1:V:86:PHE:CD2	1:V:355:GLU:HB3	2.57	0.40
1:V:248:ASP:O	1:V:252:LYS:HG2	2.21	0.40
1:V:319:THR:HG22	1:a:182:VAL:HB	2.04	0.40
1:W:51:LYS:HA	1:W:51:LYS:HD3	1.89	0.40
1:W:229:LYS:HB3	1:W:229:LYS:HE3	1.86	0.40
1:W:262:LYS:HA	1:W:265:GLN:CD	2.47	0.40
1:X:45:SER:HB2	1:X:65:ILE:HG13	2.03	0.40
1:X:262:LYS:HA	1:X:265:GLN:CD	2.47	0.40
1:a:231:VAL:HG11	1:a:249:LEU:HD22	2.04	0.40
1:a:317:MET:O	1:a:320:ARG:HD3	2.21	0.40
1:b:262:LYS:HA	1:b:265:GLN:CD	2.47	0.40
1:c:231:VAL:HG11	1:c:249:LEU:HD22	2.04	0.40
1:c:248:ASP:O	1:c:252:LYS:HG2	2.21	0.40
1:d:45:SER:HB2	1:d:65:ILE:HG13	2.03	0.40
1:e:231:VAL:HG11	1:e:249:LEU:HD22	2.04	0.40
1:f:262:LYS:HA	1:f:265:GLN:CD	2.47	0.40
1:f:313:LEU:O	1:f:317:MET:HG2	2.20	0.40
1:h:296:PHE:HB2	1:h:345:PHE:CE1	2.56	0.40
1:i:81:LYS:HE2	1:i:82:TYR:CE2	2.57	0.40
1:k:329:ILE:HD12	1:k:332:ARG:NH1	2.36	0.40
1:m:248:ASP:O	1:m:252:LYS:HG2	2.21	0.40
1:m:296:PHE:HB2	1:m:345:PHE:CE1	2.56	0.40
1:o:45:SER:HB2	1:o:65:ILE:HG13	2.04	0.40
1:q:35:LYS:HG2	1:q:42:ALA:HB1	2.04	0.40
1:q:231:VAL:HG11	1:q:249:LEU:HD22	2.04	0.40
1:r:248:ASP:O	1:r:252:LYS:HG2	2.21	0.40
1:s:45:SER:HB2	1:s:65:ILE:HG13	2.03	0.40
1:s:74:LEU:HD22	1:s:135:PHE:CD2	2.56	0.40
1:s:231:VAL:HG11	1:s:249:LEU:HD22	2.04	0.40
1:t:231:VAL:HG11	1:t:249:LEU:HD22	2.04	0.40
1:u:323:LYS:HE2	1:u:323:LYS:HB2	1.92	0.40
1:v:231:VAL:HG11	1:v:249:LEU:HD22	2.04	0.40
1:w:74:LEU:HD22	1:w:135:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:w:216:ARG:HG3	1:x:223:SER:CB	2.48	0.40
1:w:227:PHE:O	1:w:231:VAL:HG23	2.21	0.40
1:w:248:ASP:O	1:w:252:LYS:HG2	2.21	0.40
1:x:35:LYS:HG2	1:x:42:ALA:HB1	2.04	0.40
1:x:74:LEU:HD22	1:x:135:PHE:CD2	2.56	0.40
1:y:196:ILE:HD13	1:y:196:ILE:HA	1.95	0.40
1:0:74:LEU:HD22	1:0:135:PHE:CD2	2.56	0.40
1:2:35:LYS:HG2	1:2:42:ALA:HB1	2.04	0.40
1:3:317:MET:O	1:3:320:ARG:HD3	2.21	0.40
1:4:262:LYS:HA	1:4:265:GLN:CD	2.47	0.40
1:5:79:PHE:HB2	1:5:87:ILE:HG13	2.02	0.40
1:6:262:LYS:HA	1:6:265:GLN:CD	2.47	0.40
1:7:307:LYS:HA	1:7:307:LYS:HD2	1.80	0.40
1:8:86:PHE:CD2	1:8:355:GLU:HB3	2.57	0.40
1:8:296:PHE:HB2	1:8:345:PHE:CE1	2.56	0.40
1:9:231:VAL:HG11	1:9:249:LEU:HD22	2.04	0.40
1:A:231:VAL:HG11	1:A:249:LEU:HD22	2.04	0.40
1:AA:51:LYS:HD3	1:AA:51:LYS:HA	1.90	0.40
1:AA:262:LYS:HA	1:AA:265:GLN:CD	2.47	0.40
1:AA:317:MET:O	1:AA:320:ARG:HD3	2.21	0.40
1:AB:296:PHE:HB2	1:AB:345:PHE:CE1	2.56	0.40
1:B:45:SER:HB2	1:B:65:ILE:HG13	2.03	0.40
1:C:248:ASP:O	1:C:252:LYS:HG2	2.21	0.40
1:D:47:ARG:HH21	1:D:63:ILE:HG12	1.84	0.40
1:D:313:LEU:O	1:D:317:MET:HG2	2.20	0.40
1:D:323:LYS:HE2	1:D:323:LYS:HB2	1.93	0.40
1:E:231:VAL:HG11	1:E:249:LEU:HD22	2.04	0.40
1:E:296:PHE:HB2	1:E:345:PHE:CE1	2.56	0.40
1:G:35:LYS:HG2	1:G:42:ALA:HB1	2.04	0.40
1:G:45:SER:HB2	1:G:65:ILE:HG13	2.04	0.40
1:G:231:VAL:HG11	1:G:249:LEU:HD22	2.04	0.40
1:G:262:LYS:HA	1:G:265:GLN:CD	2.47	0.40
1:H:81:LYS:HE2	1:H:82:TYR:CE2	2.57	0.40
1:H:296:PHE:HB2	1:H:345:PHE:CE1	2.56	0.40
1:I:296:PHE:HB2	1:I:345:PHE:CE1	2.56	0.40
1:K:45:SER:HB2	1:K:65:ILE:HG13	2.03	0.40
1:L:207:GLN:OE1	1:L:276:LYS:HA	2.21	0.40
1:N:35:LYS:HG2	1:N:42:ALA:HB1	2.04	0.40
1:P:74:LEU:HD22	1:P:135:PHE:CD2	2.56	0.40
1:P:86:PHE:CD2	1:P:355:GLU:HB3	2.57	0.40
1:P:262:LYS:HA	1:P:265:GLN:CD	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:231:VAL:HG11	1:Q:249:LEU:HD22	2.04	0.40
1:R:296:PHE:HB2	1:R:345:PHE:CE1	2.56	0.40
1:T:207:GLN:OE1	1:T:276:LYS:HA	2.21	0.40
1:W:231:VAL:HG11	1:W:249:LEU:HD22	2.04	0.40
1:Y:79:PHE:HB2	1:Y:87:ILE:HG13	2.02	0.40
1:Z:74:LEU:HD22	1:Z:135:PHE:CD2	2.56	0.40
1:b:231:VAL:HG11	1:b:249:LEU:HD22	2.04	0.40
1:c:81:LYS:HE2	1:c:82:TYR:CE2	2.57	0.40
1:d:231:VAL:HG11	1:d:249:LEU:HD22	2.04	0.40
1:d:262:LYS:HA	1:d:265:GLN:CD	2.47	0.40
1:f:368:GLY:CA	1:g:400:TYR:CD2	3.04	0.40
1:g:248:ASP:O	1:g:252:LYS:HG2	2.21	0.40
1:g:296:PHE:HB2	1:g:345:PHE:CE1	2.56	0.40
1:i:231:VAL:HG11	1:i:249:LEU:HD22	2.04	0.40
1:j:207:GLN:OE1	1:j:276:LYS:HA	2.21	0.40
1:k:207:GLN:OE1	1:k:276:LYS:HA	2.21	0.40
1:k:231:VAL:HG11	1:k:249:LEU:HD22	2.04	0.40
1:l:329:ILE:HD12	1:l:332:ARG:NH1	2.36	0.40
1:m:35:LYS:HG2	1:m:42:ALA:HB1	2.04	0.40
1:n:296:PHE:HB2	1:n:345:PHE:CE1	2.56	0.40
1:o:231:VAL:HG11	1:o:249:LEU:HD22	2.04	0.40
1:p:309:LYS:HE3	1:p:309:LYS:HB3	1.85	0.40
1:r:296:PHE:HB2	1:r:345:PHE:CE1	2.56	0.40
1:s:35:LYS:HG2	1:s:42:ALA:HB1	2.04	0.40
1:u:74:LEU:HD22	1:u:135:PHE:CD2	2.56	0.40
1:u:301:GLU:O	1:u:304:GLU:HG3	2.20	0.40
1:w:86:PHE:CD2	1:w:355:GLU:HB3	2.57	0.40
1:x:307:LYS:HA	1:x:307:LYS:HD2	1.80	0.40
1:y:35:LYS:HG2	1:y:42:ALA:HB1	2.04	0.40
1:y:86:PHE:CD2	1:y:355:GLU:HB3	2.57	0.40
1:y:227:PHE:O	1:y:231:VAL:HG23	2.21	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%)	372 (99%)	5 (1%)	0	100	100
1	1	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	2	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	3	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	4	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	5	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	6	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	7	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	8	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	9	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	A	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	AA	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	AB	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	B	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	C	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	D	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	E	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	F	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	G	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	H	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	I	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	J	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	K	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	L	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	M	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	N	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	O	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	P	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	Q	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	R	377/402 (94%)	372 (99%)	5 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	S	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	T	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	U	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	V	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	W	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	X	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	Y	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	Z	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	a	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	b	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	c	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	d	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	e	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	f	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	g	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	h	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	i	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	j	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	k	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	l	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	m	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	n	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	o	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	p	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	q	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	r	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	s	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	t	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	u	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	v	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	w	377/402 (94%)	372 (99%)	5 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	x	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	y	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
1	z	377/402 (94%)	372 (99%)	5 (1%)	0	100	100
All	All	24128/25728 (94%)	23808 (99%)	320 (1%)	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
1	AB	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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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
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

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
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
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	21440/22848 (94%)	21440 (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 (351) such sidechains are listed below:

Mol	Chain	Res	Type
1	0	38	ASN
1	0	162	GLN
1	0	201	ASN
1	0	207	GLN
1	0	261	GLN
1	0	378	GLN
1	1	38	ASN
1	1	162	GLN
1	1	201	ASN
1	1	207	GLN
1	1	261	GLN
1	1	378	GLN
1	2	162	GLN
1	2	201	ASN

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Mol	Chain	Res	Type
1	2	207	GLN
1	2	261	GLN
1	2	378	GLN
1	3	38	ASN
1	3	162	GLN
1	3	207	GLN
1	3	261	GLN
1	3	266	GLN
1	3	378	GLN
1	4	38	ASN
1	4	162	GLN
1	4	201	ASN
1	4	207	GLN
1	4	261	GLN
1	4	378	GLN
1	5	38	ASN
1	5	162	GLN
1	5	201	ASN
1	5	207	GLN
1	5	261	GLN
1	5	378	GLN
1	6	38	ASN
1	6	162	GLN
1	6	201	ASN
1	6	207	GLN
1	6	261	GLN
1	6	378	GLN
1	7	38	ASN
1	7	162	GLN
1	7	201	ASN
1	7	202	HIS
1	7	207	GLN
1	7	261	GLN
1	7	378	GLN
1	8	38	ASN
1	8	162	GLN
1	8	207	GLN
1	8	378	GLN
1	9	38	ASN
1	9	58	GLN
1	9	162	GLN
1	9	201	ASN

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Mol	Chain	Res	Type
1	9	207	GLN
1	9	261	GLN
1	9	378	GLN
1	A	38	ASN
1	A	162	GLN
1	A	207	GLN
1	A	261	GLN
1	A	378	GLN
1	AA	38	ASN
1	AA	162	GLN
1	AA	201	ASN
1	AA	207	GLN
1	AA	261	GLN
1	AA	266	GLN
1	AA	378	GLN
1	AB	38	ASN
1	AB	162	GLN
1	AB	201	ASN
1	AB	207	GLN
1	AB	261	GLN
1	AB	378	GLN
1	B	38	ASN
1	B	162	GLN
1	B	207	GLN
1	B	261	GLN
1	B	378	GLN
1	C	38	ASN
1	C	162	GLN
1	C	207	GLN
1	C	378	GLN
1	D	38	ASN
1	D	162	GLN
1	D	207	GLN
1	D	261	GLN
1	D	266	GLN
1	D	378	GLN
1	E	38	ASN
1	E	162	GLN
1	E	201	ASN
1	E	207	GLN
1	E	261	GLN
1	E	378	GLN

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Mol	Chain	Res	Type
1	F	38	ASN
1	F	162	GLN
1	F	207	GLN
1	F	261	GLN
1	F	378	GLN
1	G	38	ASN
1	G	162	GLN
1	G	201	ASN
1	G	202	HIS
1	G	207	GLN
1	G	261	GLN
1	G	266	GLN
1	G	378	GLN
1	H	38	ASN
1	H	162	GLN
1	H	201	ASN
1	H	207	GLN
1	H	261	GLN
1	H	378	GLN
1	I	38	ASN
1	I	162	GLN
1	I	207	GLN
1	I	378	GLN
1	J	38	ASN
1	J	162	GLN
1	J	207	GLN
1	J	261	GLN
1	J	378	GLN
1	K	38	ASN
1	K	162	GLN
1	K	201	ASN
1	K	207	GLN
1	K	261	GLN
1	K	266	GLN
1	K	378	GLN
1	L	38	ASN
1	L	58	GLN
1	L	162	GLN
1	L	207	GLN
1	L	261	GLN
1	L	378	GLN
1	M	38	ASN

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Mol	Chain	Res	Type
1	M	162	GLN
1	M	207	GLN
1	M	378	GLN
1	N	162	GLN
1	N	201	ASN
1	N	207	GLN
1	N	261	GLN
1	N	378	GLN
1	O	38	ASN
1	O	162	GLN
1	O	207	GLN
1	O	261	GLN
1	O	378	GLN
1	P	38	ASN
1	P	162	GLN
1	P	201	ASN
1	P	207	GLN
1	P	261	GLN
1	P	378	GLN
1	Q	38	ASN
1	Q	162	GLN
1	Q	207	GLN
1	Q	378	GLN
1	R	162	GLN
1	R	207	GLN
1	R	261	GLN
1	R	378	GLN
1	S	38	ASN
1	S	162	GLN
1	S	202	HIS
1	S	207	GLN
1	S	261	GLN
1	S	378	GLN
1	T	38	ASN
1	T	162	GLN
1	T	207	GLN
1	T	261	GLN
1	T	378	GLN
1	U	38	ASN
1	U	58	GLN
1	U	162	GLN
1	U	201	ASN

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Mol	Chain	Res	Type
1	U	207	GLN
1	U	378	GLN
1	V	38	ASN
1	V	58	GLN
1	V	162	GLN
1	V	207	GLN
1	V	378	GLN
1	W	38	ASN
1	W	162	GLN
1	W	207	GLN
1	W	261	GLN
1	W	378	GLN
1	X	38	ASN
1	X	162	GLN
1	X	207	GLN
1	X	261	GLN
1	X	378	GLN
1	Y	38	ASN
1	Y	162	GLN
1	Y	207	GLN
1	Y	261	GLN
1	Y	266	GLN
1	Y	378	GLN
1	Z	38	ASN
1	Z	162	GLN
1	Z	207	GLN
1	Z	261	GLN
1	Z	378	GLN
1	a	38	ASN
1	a	162	GLN
1	a	201	ASN
1	a	207	GLN
1	a	261	GLN
1	a	378	GLN
1	b	162	GLN
1	b	207	GLN
1	b	261	GLN
1	b	378	GLN
1	c	38	ASN
1	c	162	GLN
1	c	207	GLN
1	c	261	GLN

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Mol	Chain	Res	Type
1	c	378	GLN
1	d	38	ASN
1	d	162	GLN
1	d	207	GLN
1	d	261	GLN
1	d	378	GLN
1	e	38	ASN
1	e	162	GLN
1	e	207	GLN
1	e	266	GLN
1	e	378	GLN
1	f	38	ASN
1	f	162	GLN
1	f	201	ASN
1	f	207	GLN
1	f	261	GLN
1	f	378	GLN
1	g	38	ASN
1	g	162	GLN
1	g	207	GLN
1	g	378	GLN
1	h	38	ASN
1	h	162	GLN
1	h	201	ASN
1	h	207	GLN
1	h	266	GLN
1	h	378	GLN
1	i	38	ASN
1	i	162	GLN
1	i	207	GLN
1	i	261	GLN
1	i	378	GLN
1	j	162	GLN
1	j	201	ASN
1	j	207	GLN
1	j	261	GLN
1	j	378	GLN
1	k	38	ASN
1	k	162	GLN
1	k	207	GLN
1	k	261	GLN
1	k	378	GLN

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Mol	Chain	Res	Type
1	l	162	GLN
1	l	201	ASN
1	l	207	GLN
1	l	261	GLN
1	l	378	GLN
1	m	38	ASN
1	m	162	GLN
1	m	201	ASN
1	m	207	GLN
1	m	378	GLN
1	n	38	ASN
1	n	58	GLN
1	n	162	GLN
1	n	207	GLN
1	n	261	GLN
1	n	378	GLN
1	o	38	ASN
1	o	58	GLN
1	o	162	GLN
1	o	207	GLN
1	o	261	GLN
1	o	378	GLN
1	p	38	ASN
1	p	162	GLN
1	p	207	GLN
1	p	261	GLN
1	p	378	GLN
1	q	38	ASN
1	q	162	GLN
1	q	201	ASN
1	q	207	GLN
1	q	378	GLN
1	r	38	ASN
1	r	162	GLN
1	r	201	ASN
1	r	207	GLN
1	r	261	GLN
1	r	378	GLN
1	s	162	GLN
1	s	201	ASN
1	s	207	GLN
1	s	266	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	s	378	GLN
1	t	38	ASN
1	t	162	GLN
1	t	201	ASN
1	t	207	GLN
1	t	266	GLN
1	t	378	GLN
1	u	162	GLN
1	u	207	GLN
1	u	261	GLN
1	u	378	GLN
1	v	38	ASN
1	v	162	GLN
1	v	207	GLN
1	v	378	GLN
1	w	38	ASN
1	w	58	GLN
1	w	162	GLN
1	w	201	ASN
1	w	207	GLN
1	w	261	GLN
1	w	266	GLN
1	w	378	GLN
1	x	38	ASN
1	x	58	GLN
1	x	162	GLN
1	x	201	ASN
1	x	207	GLN
1	x	261	GLN
1	x	378	GLN
1	y	38	ASN
1	y	162	GLN
1	y	201	ASN
1	y	207	GLN
1	y	261	GLN
1	y	266	GLN
1	y	378	GLN
1	z	38	ASN
1	z	162	GLN
1	z	201	ASN
1	z	207	GLN
1	z	261	GLN

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Mol	Chain	Res	Type
1	z	378	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

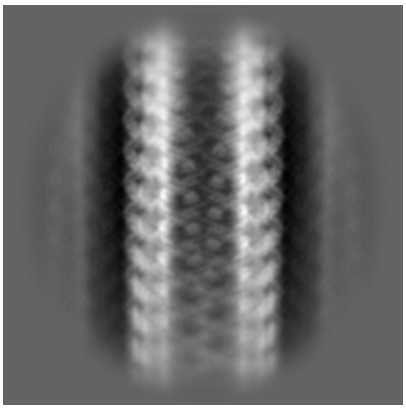
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-68806. These allow visual inspection of the internal detail of the map and identification of artifacts.

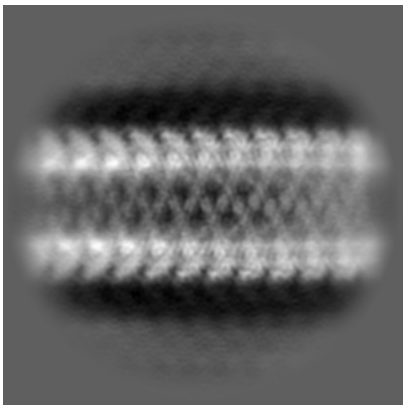
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

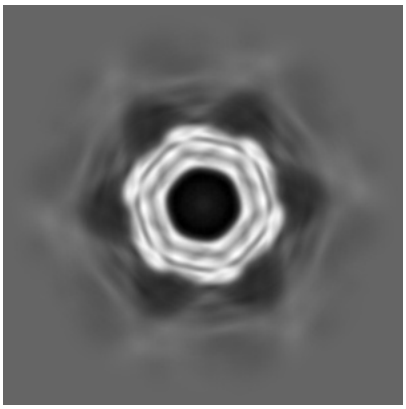
6.1.1 Primary map



X

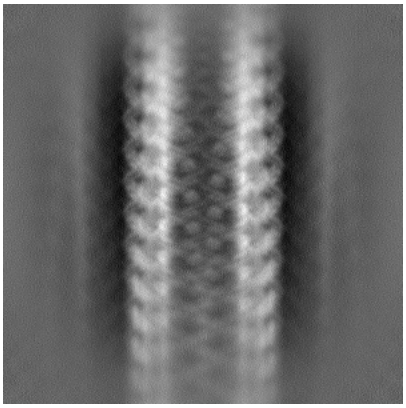


Y

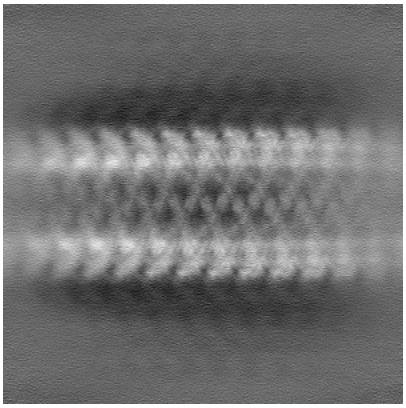


Z

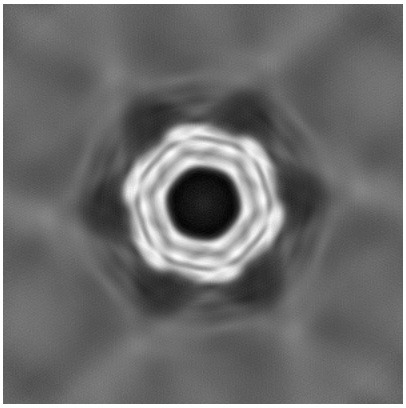
6.1.2 Raw map



X



Y

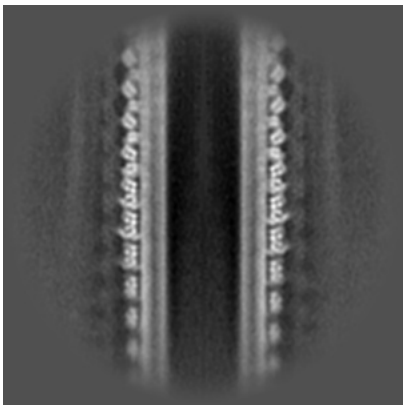


Z

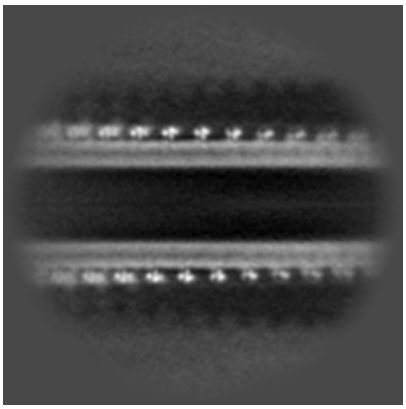
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

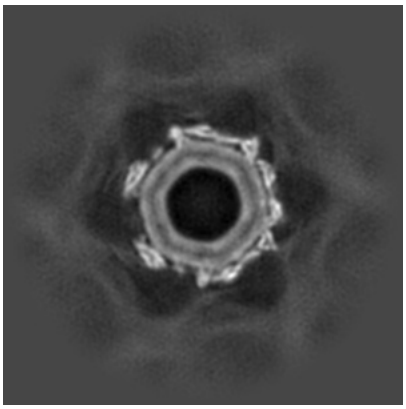
6.2.1 Primary map



X Index: 200

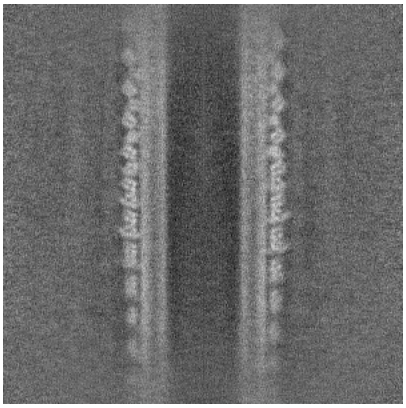


Y Index: 200

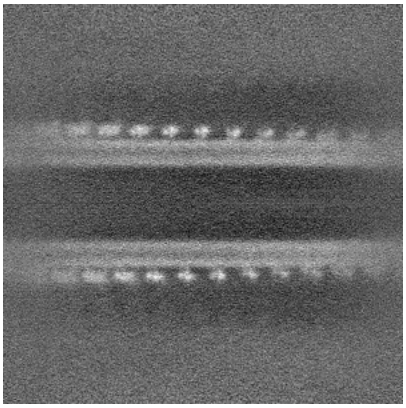


Z Index: 200

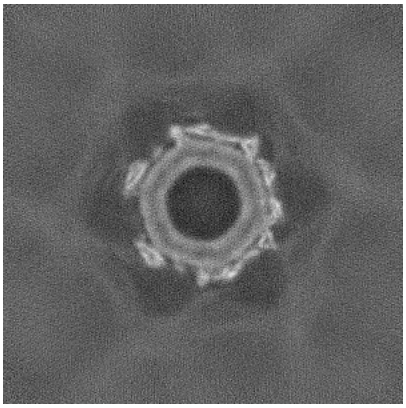
6.2.2 Raw map



X Index: 200



Y Index: 200

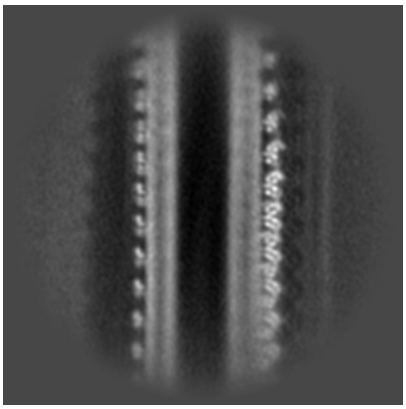


Z Index: 200

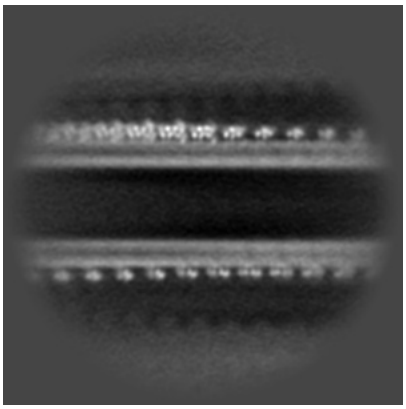
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

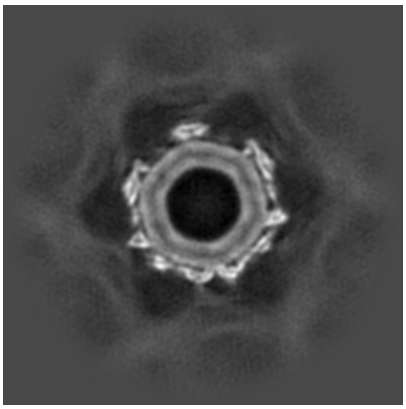
6.3.1 Primary map



X Index: 173

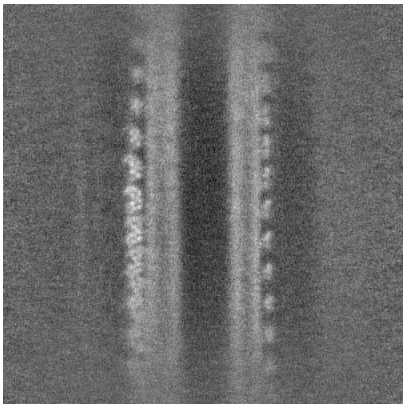


Y Index: 192

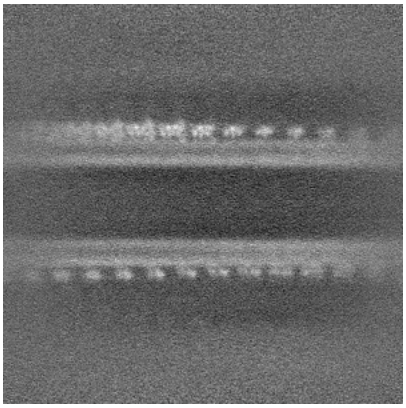


Z Index: 208

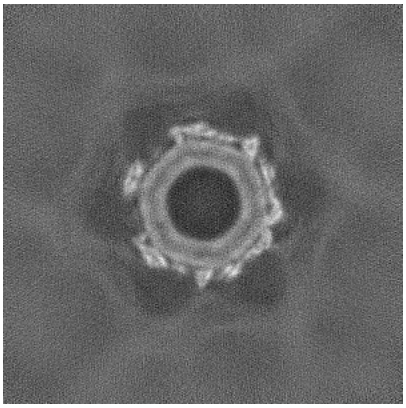
6.3.2 Raw map



X Index: 228



Y Index: 193

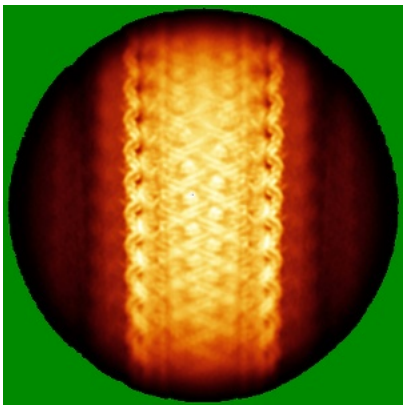


Z Index: 202

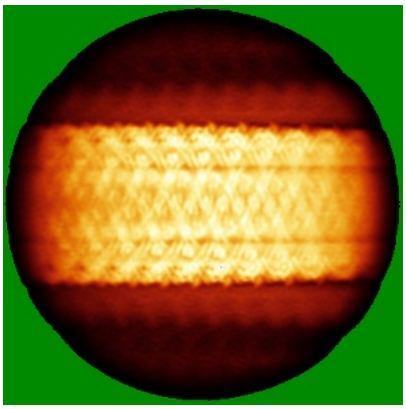
The images above show the largest variance slices of the map in three orthogonal directions.

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

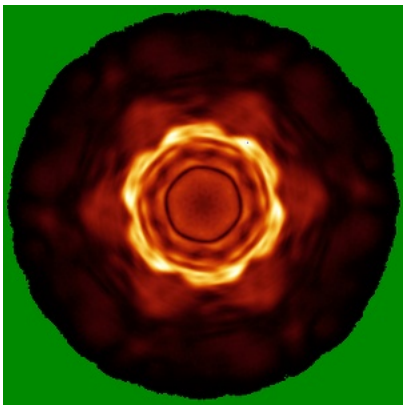
6.4.1 Primary map



X

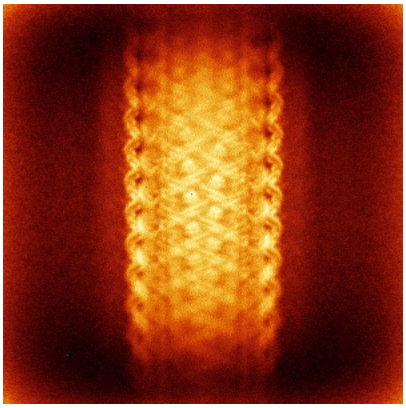


Y

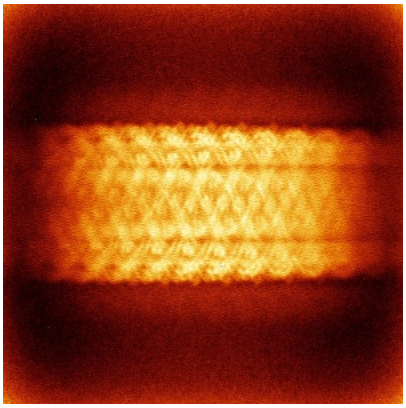


Z

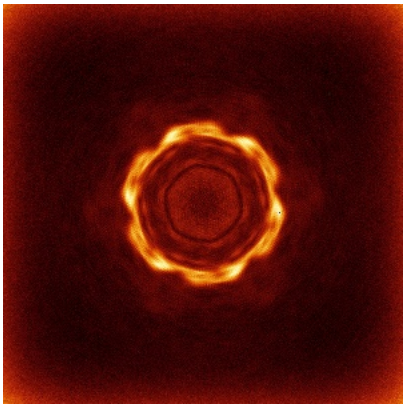
6.4.2 Raw map



X



Y

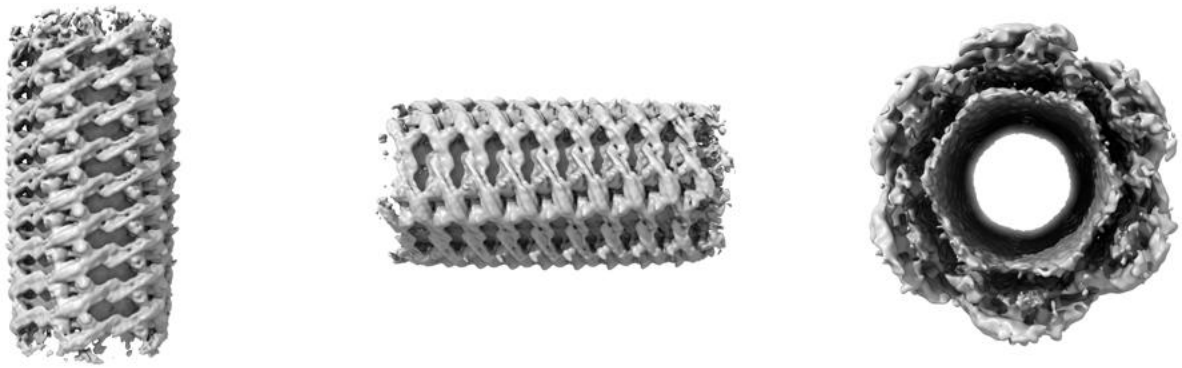


Z

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

6.5 Orthogonal surface views (i)

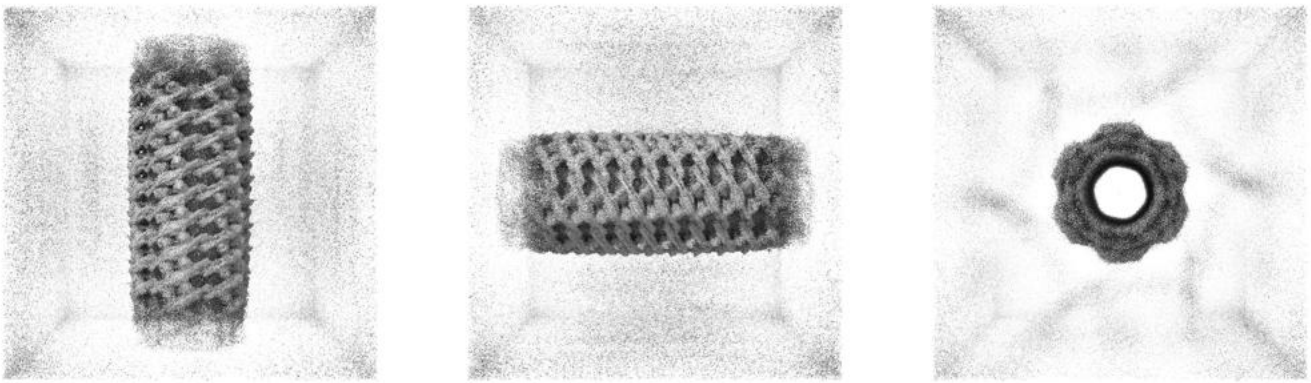
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.07. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

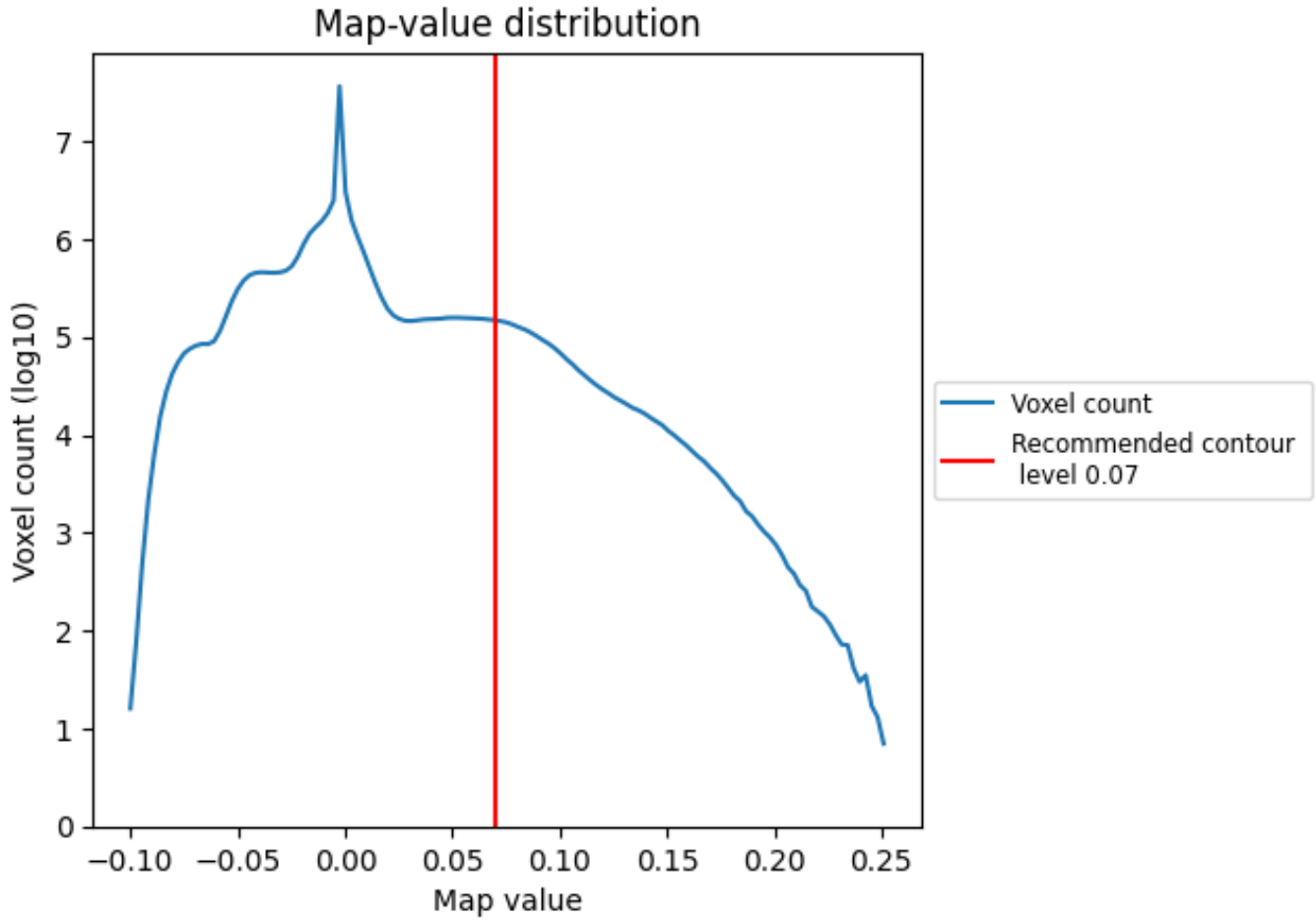
6.6 Mask visualisation (i)

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

7 Map analysis

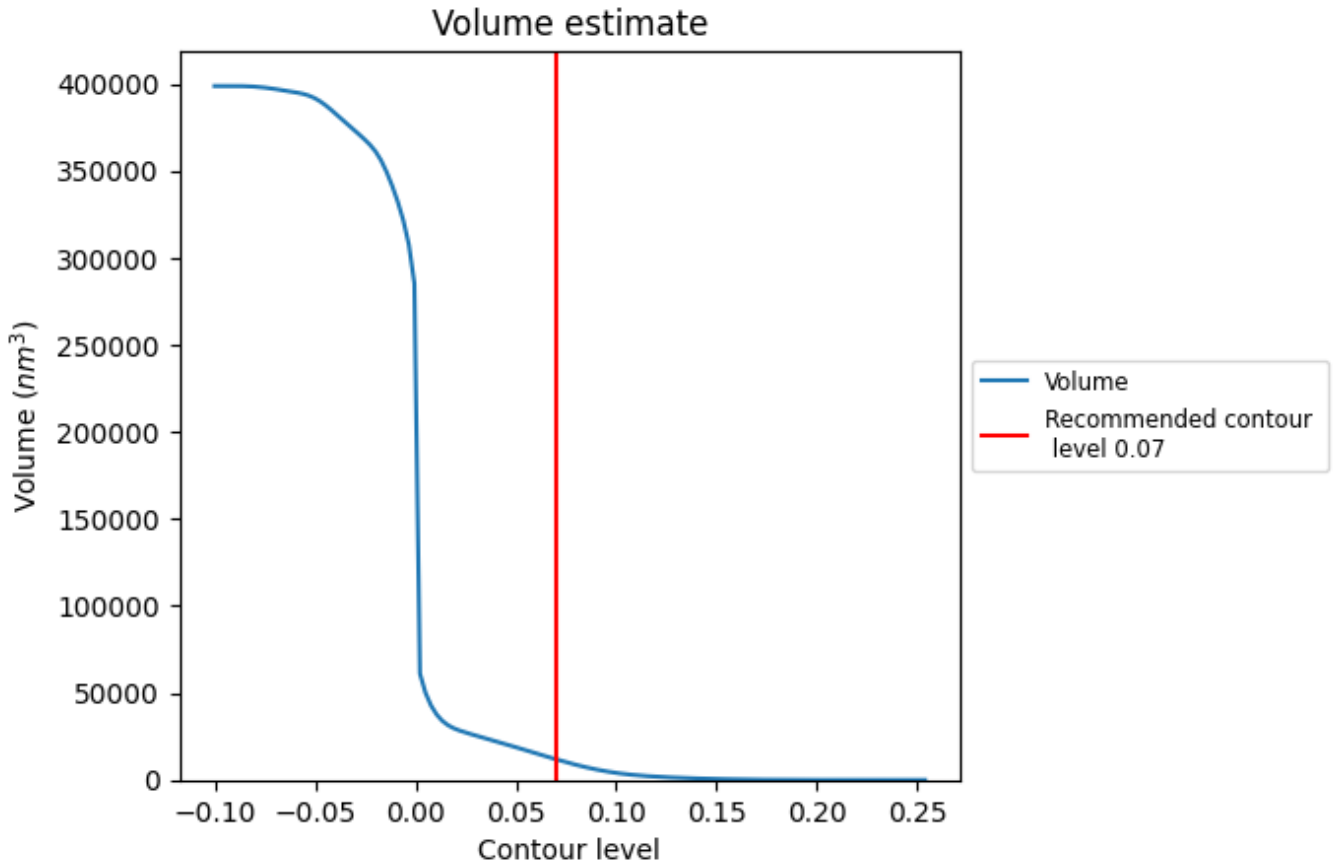
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

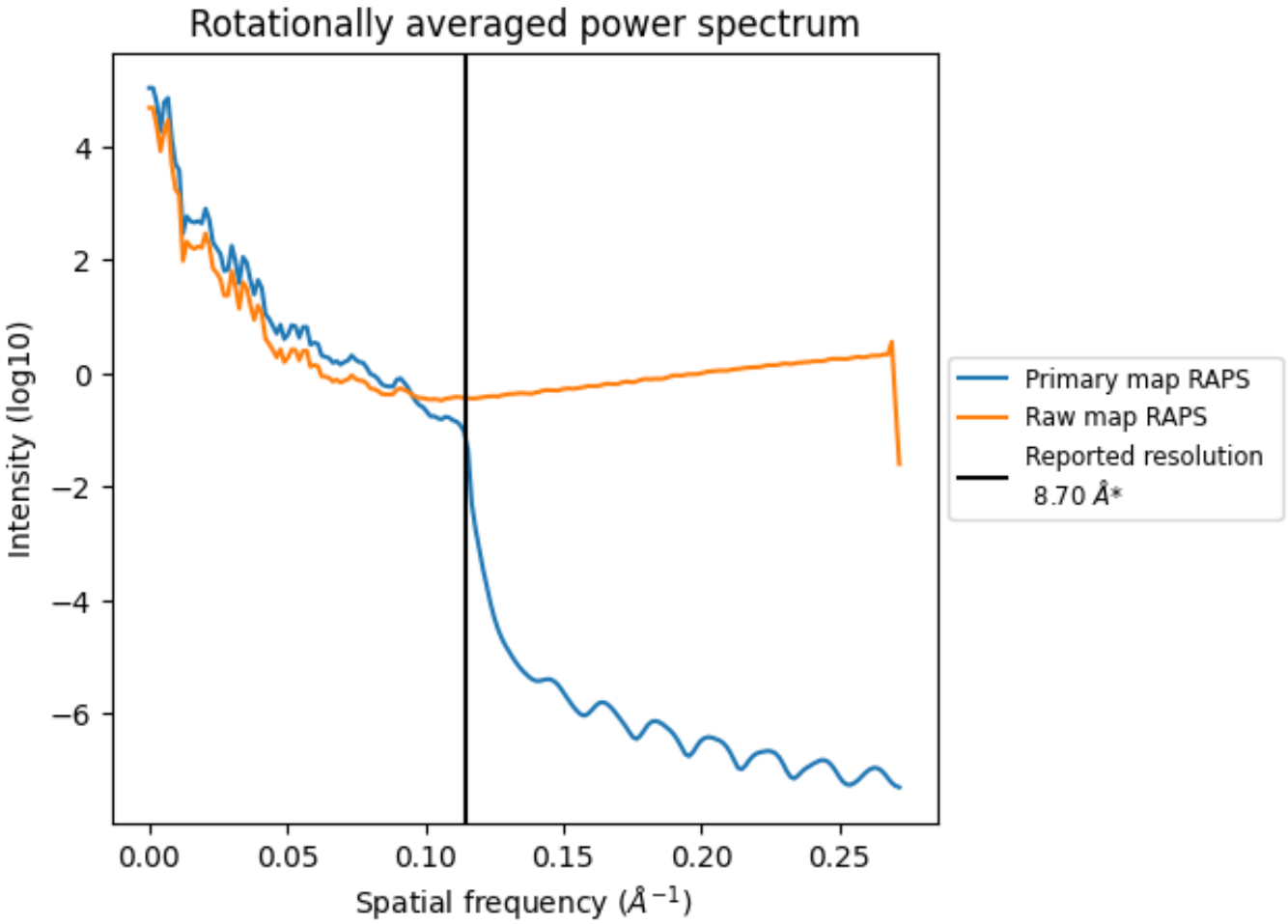
7.2 Volume estimate



The volume at the recommended contour level is 11879 nm^3; this corresponds to an approximate mass of 10731 kDa.

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

7.3 Rotationally averaged power spectrum (i)

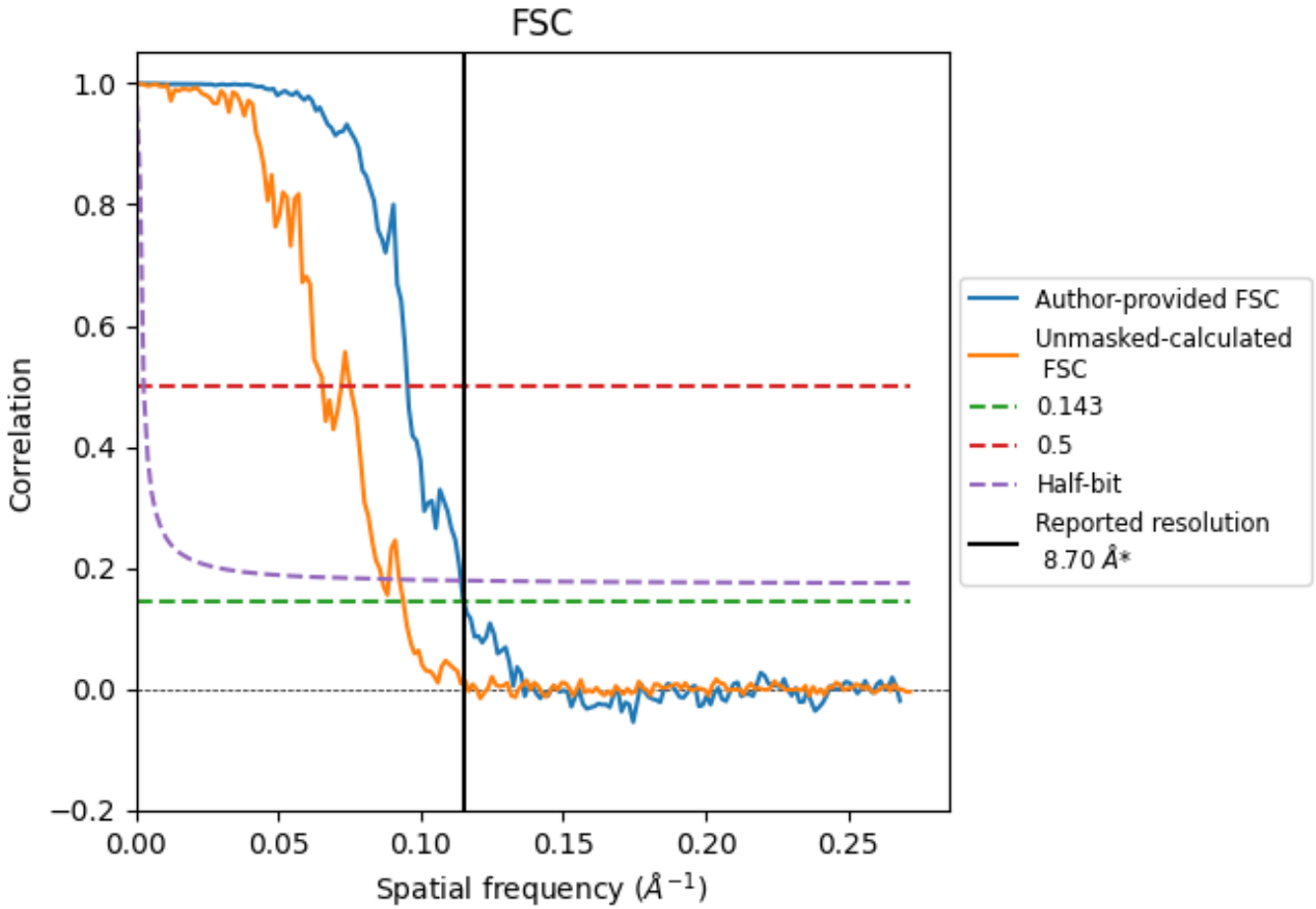


*Reported resolution corresponds to spatial frequency of 0.115 Å^{-1}

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.115 Å^{-1}

8.2 Resolution estimates (i)

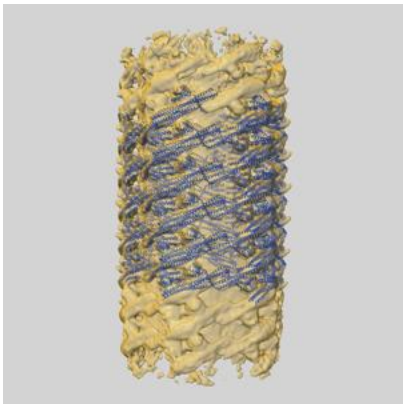
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	8.70	-	-
Author-provided FSC curve	8.69	10.49	8.76
Unmasked-calculated*	10.65	15.27	11.57

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 10.65 differs from the reported value 8.7 by more than 10 %

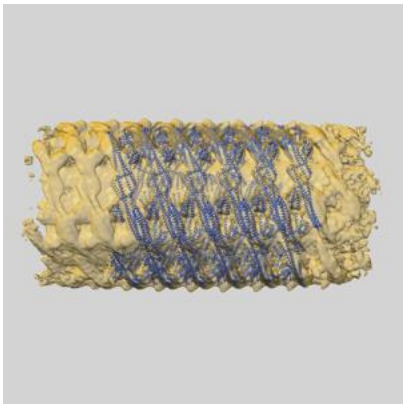
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-68806 and PDB model 23AT. Per-residue inclusion information can be found in section 3 on page 10.

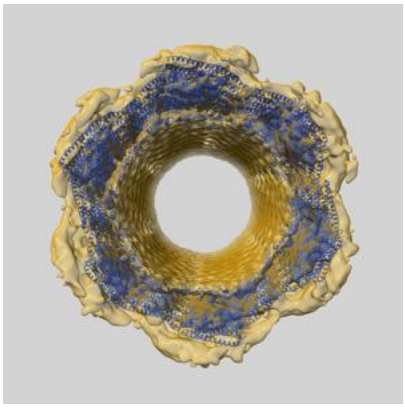
9.1 Map-model overlay



X



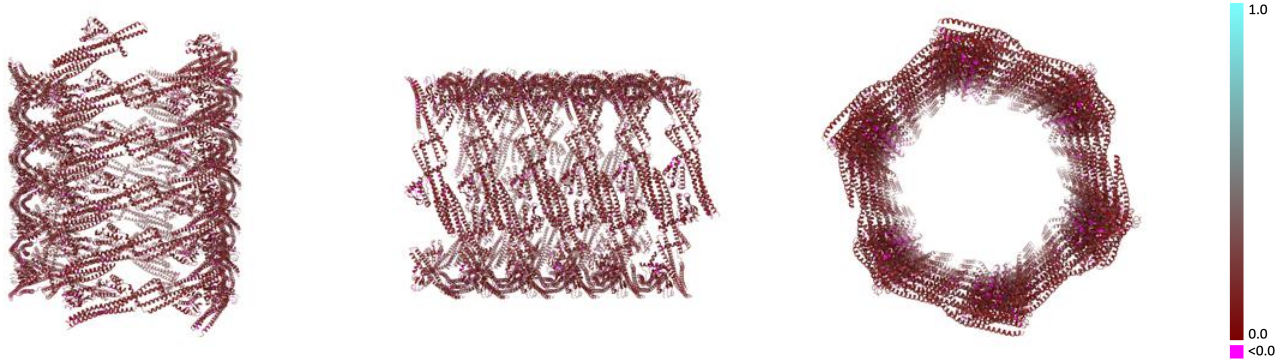
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.07 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

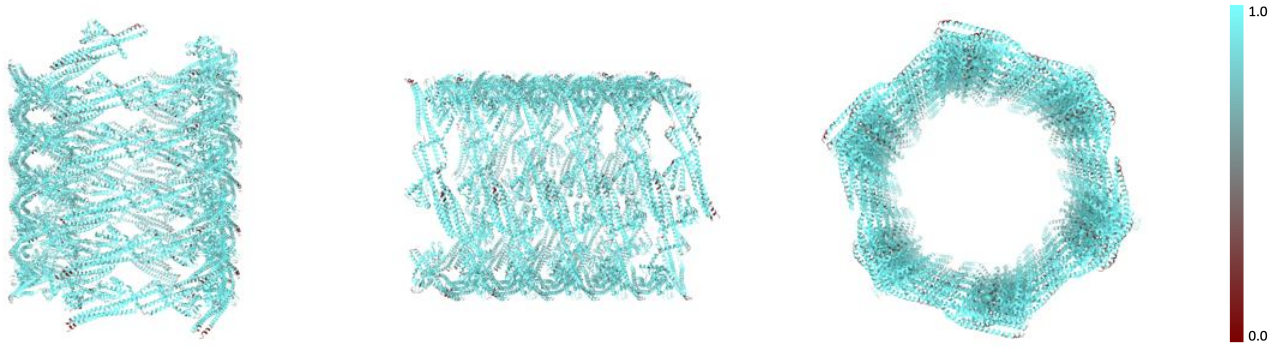
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

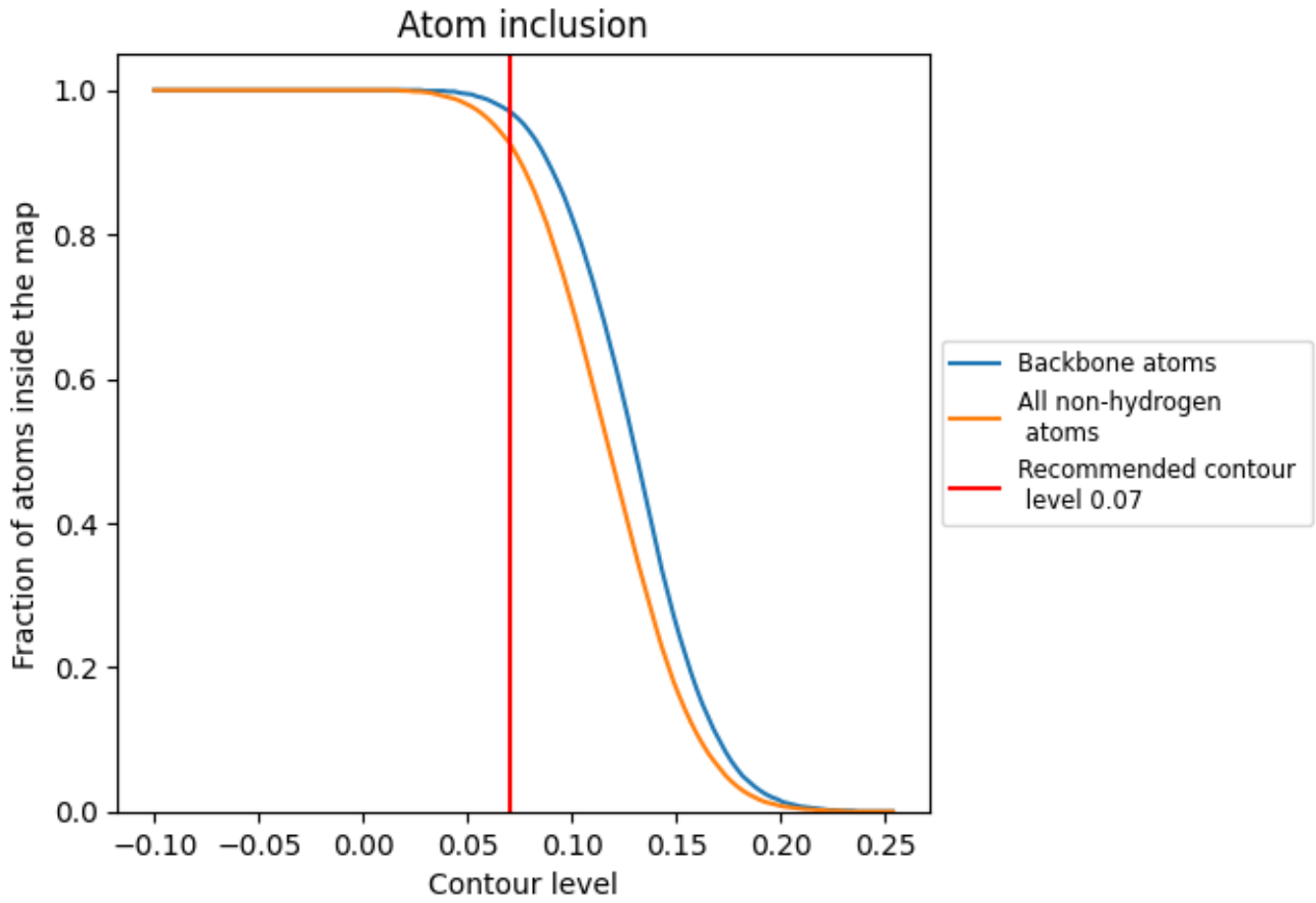
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.07).

9.4 Atom inclusion (i)



At the recommended contour level, 97% of all backbone atoms, 93% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.07) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9270	0.1490
0	0.9540	0.1550
1	0.9440	0.1570
2	0.9280	0.1440
3	0.9460	0.1570
4	0.9320	0.1510
5	0.9500	0.1550
6	0.9140	0.1370
7	0.9480	0.1560
8	0.9240	0.1490
9	0.9410	0.1490
A	0.9480	0.1560
AA	0.9180	0.1380
AB	0.9430	0.1490
B	0.9270	0.1460
C	0.9220	0.1520
D	0.9220	0.1490
E	0.9490	0.1550
F	0.9140	0.1440
G	0.9370	0.1540
H	0.9220	0.1490
I	0.9490	0.1520
J	0.9030	0.1330
K	0.9520	0.1560
L	0.9310	0.1470
M	0.9260	0.1550
N	0.9240	0.1460
O	0.9150	0.1500
P	0.9170	0.1480
Q	0.9410	0.1580
R	0.9270	0.1480
S	0.9240	0.1540
T	0.9220	0.1500
U	0.9510	0.1550
V	0.9240	0.1410

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Chain	Atom inclusion	Q-score
W	0.9490	0.1560
X	0.9320	0.1490
Y	0.9460	0.1550
Z	0.9020	0.1390
a	0.9440	0.1560
b	0.9190	0.1380
c	0.9380	0.1530
d	0.9260	0.1480
e	0.9420	0.1490
f	0.9490	0.1540
g	0.9220	0.1480
h	0.9540	0.1550
i	0.9090	0.1420
j	0.8950	0.1380
k	0.9010	0.1480
l	0.9120	0.1450
m	0.8840	0.1400
n	0.9220	0.1520
o	0.9180	0.1430
p	0.9060	0.1460
q	0.9100	0.1440
r	0.8880	0.1430
s	0.9070	0.1400
t	0.9190	0.1530
u	0.9190	0.1420
v	0.9020	0.1410
w	0.9330	0.1550
x	0.9230	0.1420
y	0.9260	0.1520
z	0.9210	0.1450