



Full wwPDB/EMDataBank EM Map/Model Validation Report ⓘ

Jan 23, 2017 – 08:34 PM EST

PDB ID : 5H1R
EMDB ID: : EMD-9571
Title : C. elegans INX-6 gap junction channel
Authors : Oshima, A.; Tani, K.; Fujiyoshi, Y.
Deposited on : 2016-10-11
Resolution : 3.60 Å(reported)

This is a Full wwPDB/EMDataBank EM Map/Model Validation Report
for a publicly released PDB/EMDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
<http://wwpdb.org/validation/2016/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

MolProbity : 4.02b-467
Mogul : unknown
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : rb-20028442

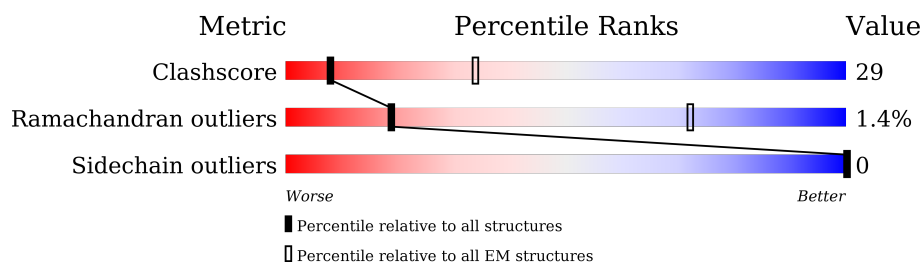
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.60 Å.

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




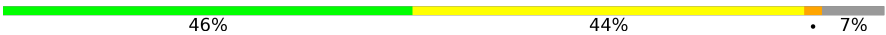



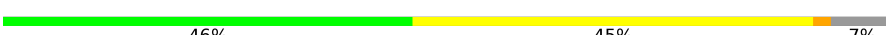
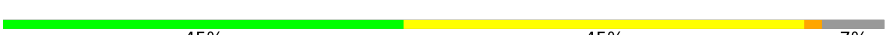
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	114402	924
Ramachandran outliers	111179	726
Sidechain outliers	111093	686

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

Mol	Chain	Length	Quality of chain
1	A	389	46% 44% • 7%
1	B	389	45% 45% • 7%
1	C	389	46% 44% • 7%
1	D	389	45% 45% • 7%
1	E	389	46% 44% • 7%
1	F	389	45% 45% • 7%
1	G	389	46% 45% • 7%
1	H	389	46% 45% • 7%
1	I	389	45% 45% • 7%

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Mol	Chain	Length	Quality of chain
1	J	389	 46% 44% • 7%
1	K	389	 46% 44% • 7%
1	L	389	 45% 45% • 7%
1	M	389	 46% 44% • 7%
1	N	389	 45% 45% • 7%
1	O	389	 46% 45% • 7%
1	P	389	 45% 45% • 7%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 47440 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.

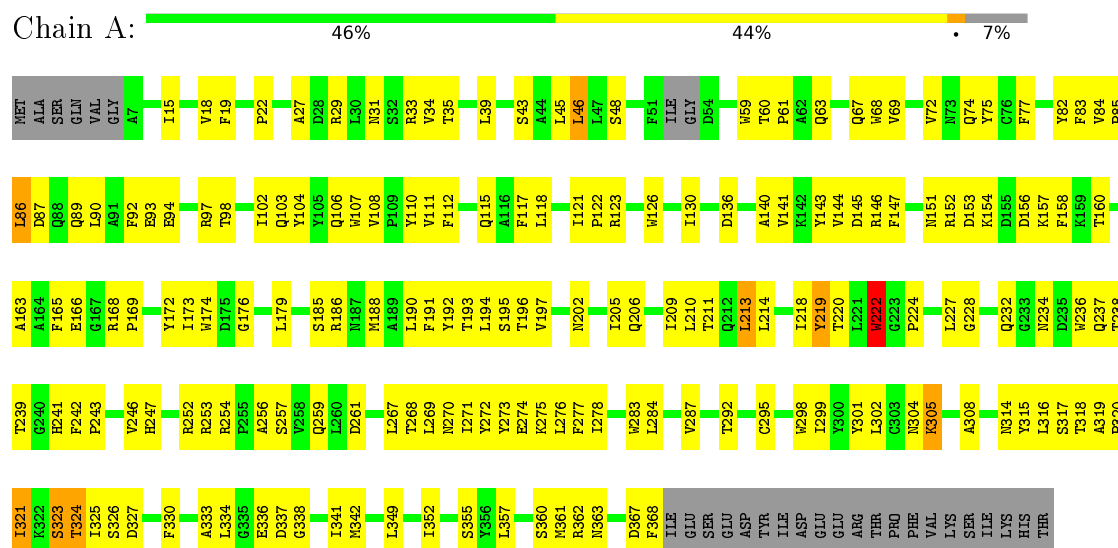
- Molecule 1 is a protein called Innexin-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	B	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	C	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	D	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	E	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	F	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	G	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	H	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	I	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	J	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	K	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	L	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	M	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	N	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	O	360	Total 2965	C 1950	N 487	O 516	S 12	0	0
1	P	360	Total 2965	C 1950	N 487	O 516	S 12	0	0

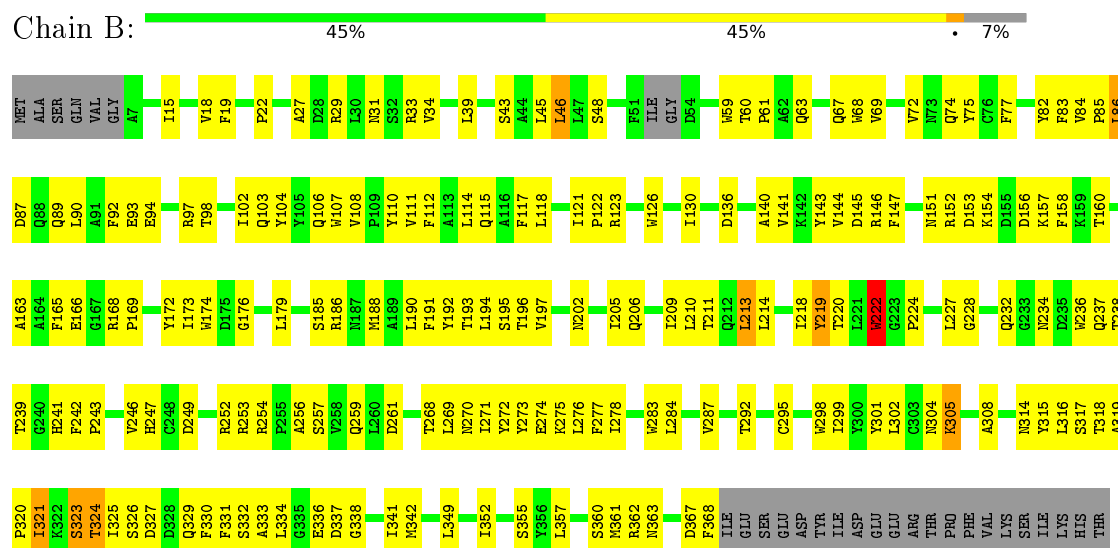
3 Residue-property plots

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

• Molecule 1: Innexin-6

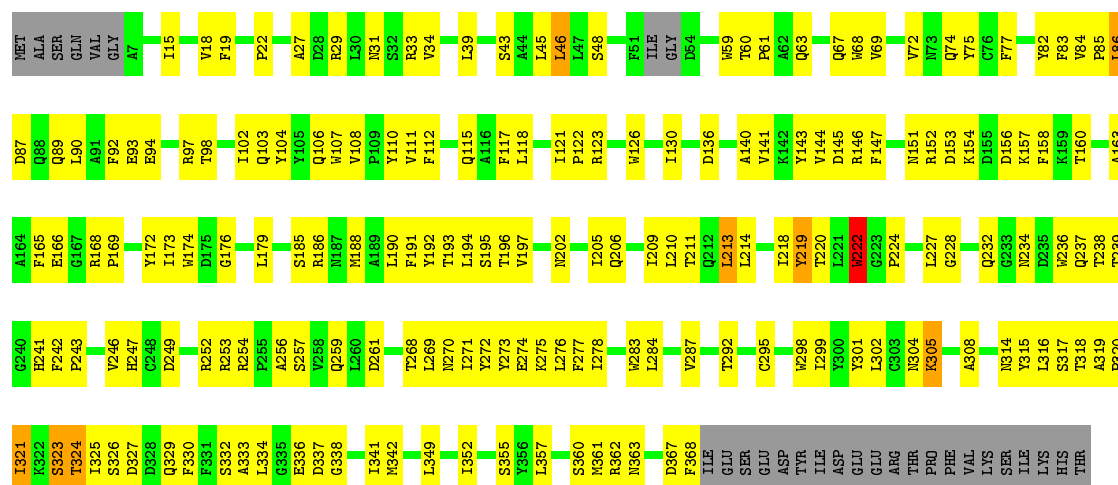


• Molecule 1: Innexin-6



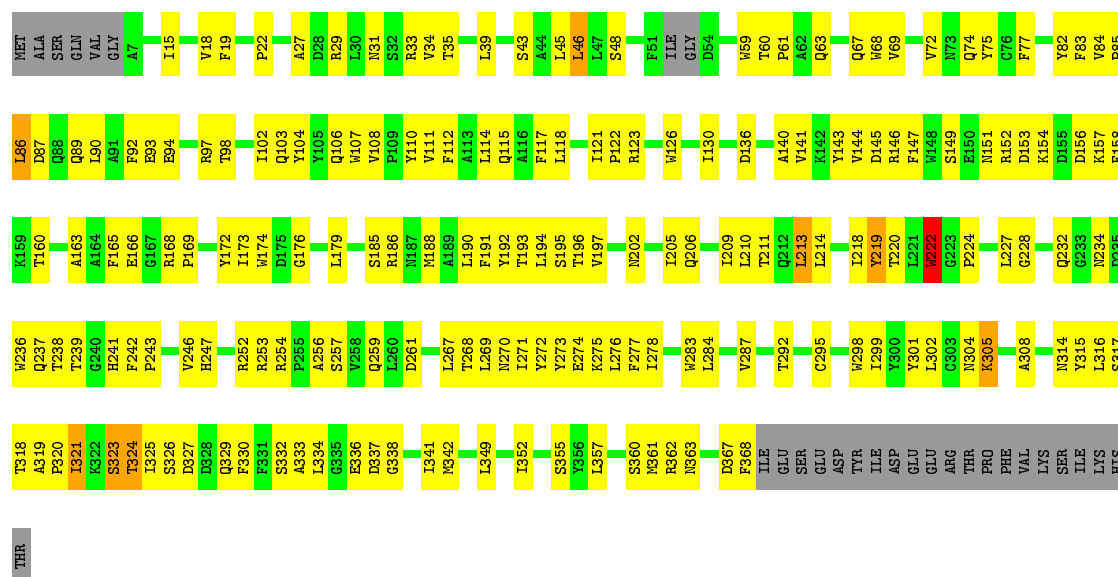
• Molecule 1: Innexin-6





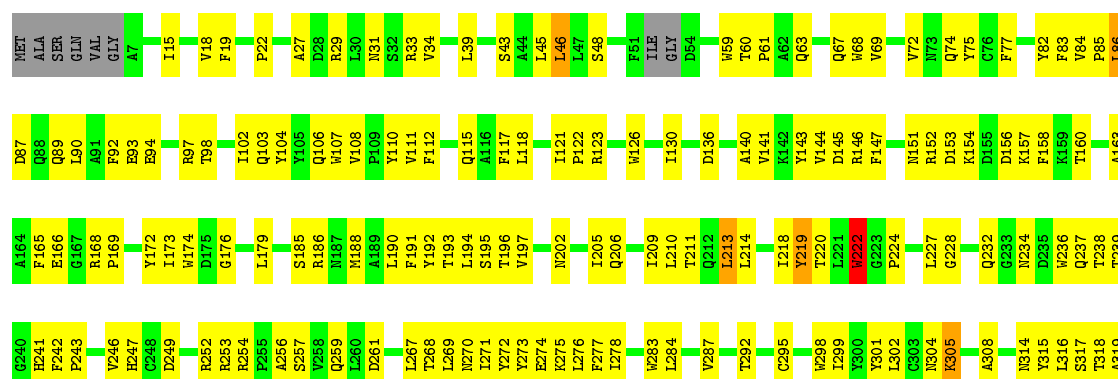
• Molecule 1: Innexin-6

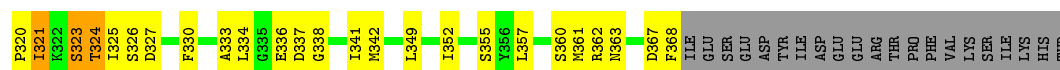
Chain D: 45% 45% 7%



• Molecule 1: Innexin-6

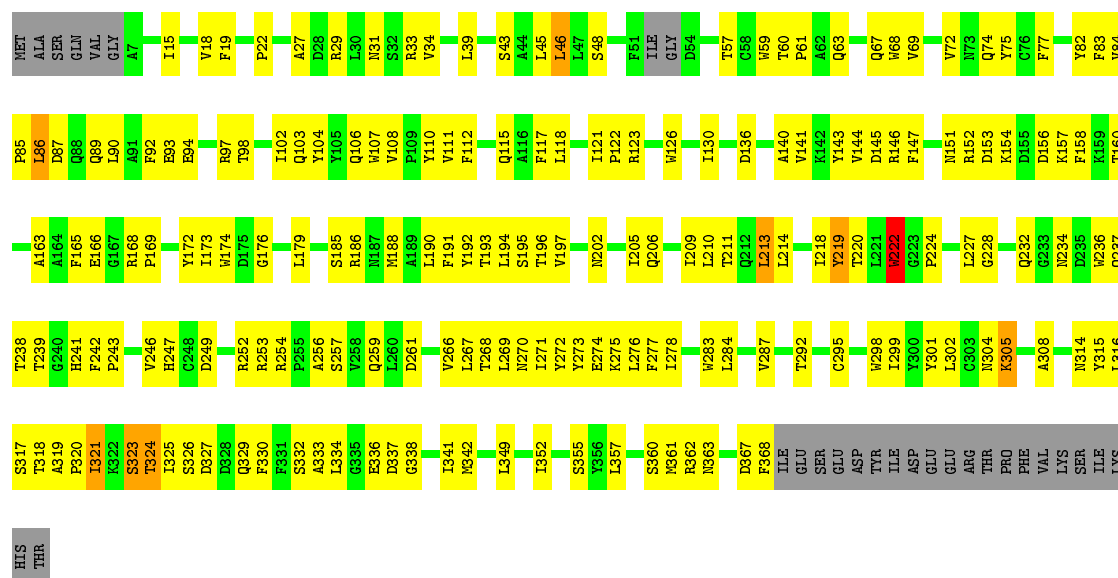
Chain E: 46% 44% 7%





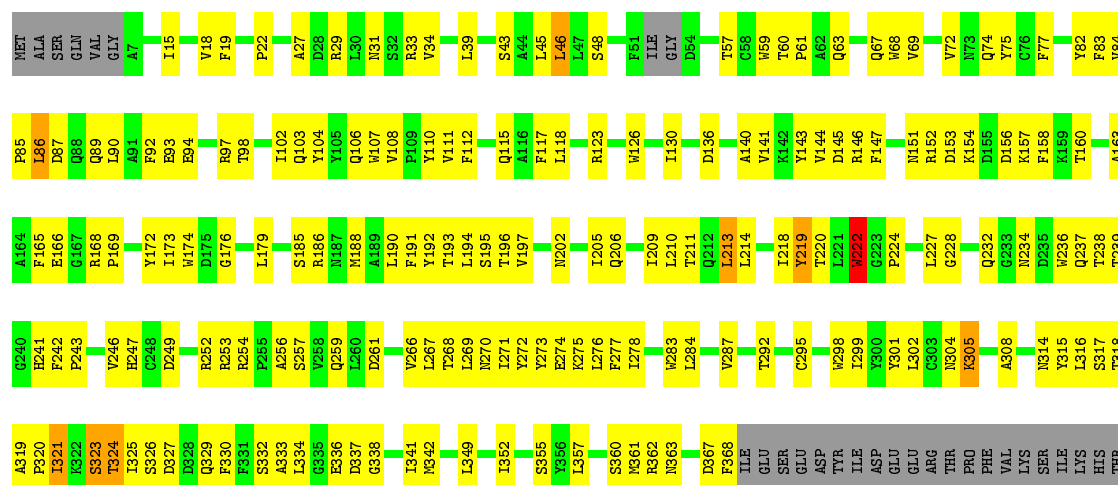
• Molecule 1: Innexin-6

Chain F: 45% 45% 7%



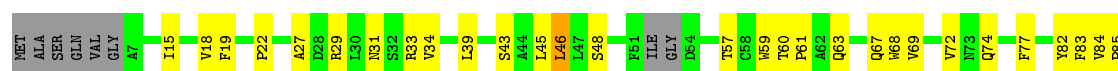
• Molecule 1: Innexin-6

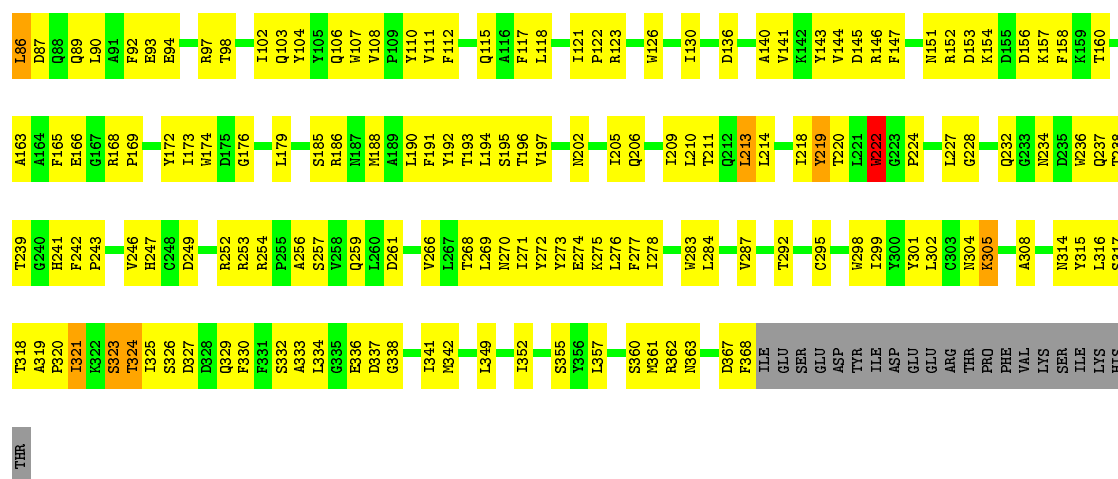
Chain G: 46% 45% 7%



• Molecule 1: Innexin-6

Chain H: 46% 45% 7%

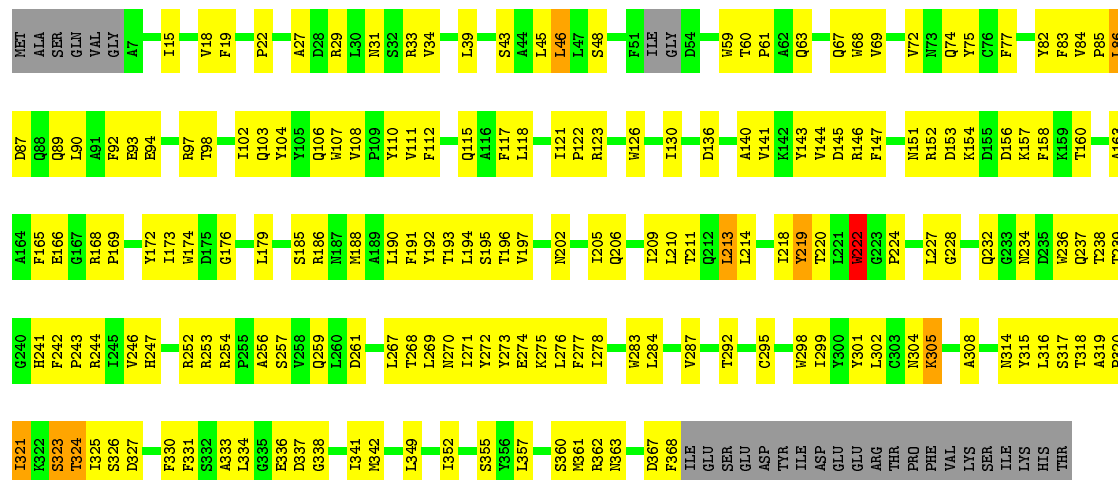






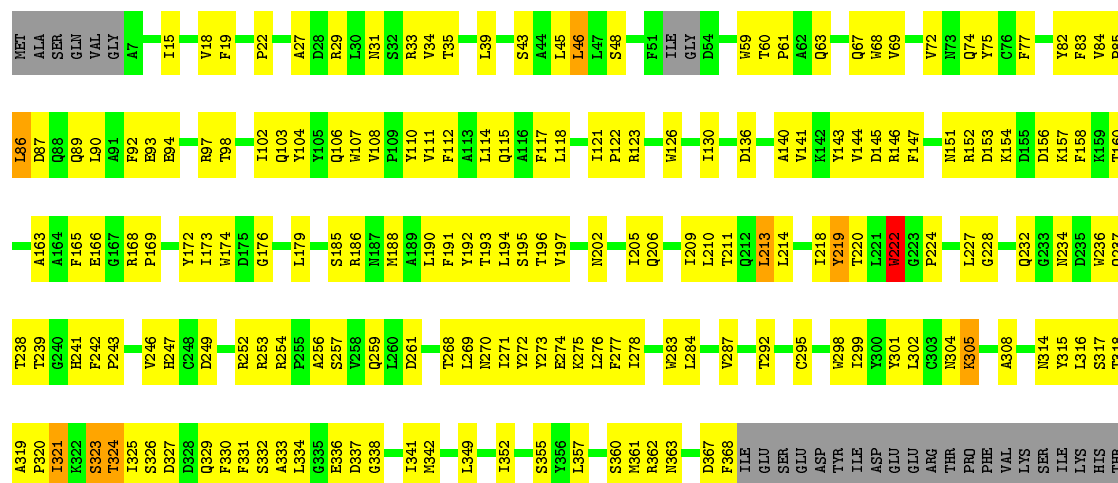
• Molecule 1: Innexin-6

Chain K: 46% 44% 7%



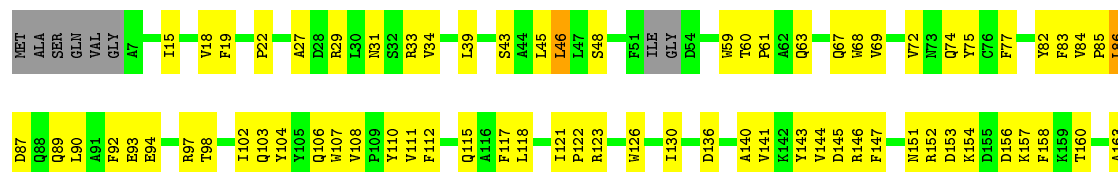
• Molecule 1: Innexin-6

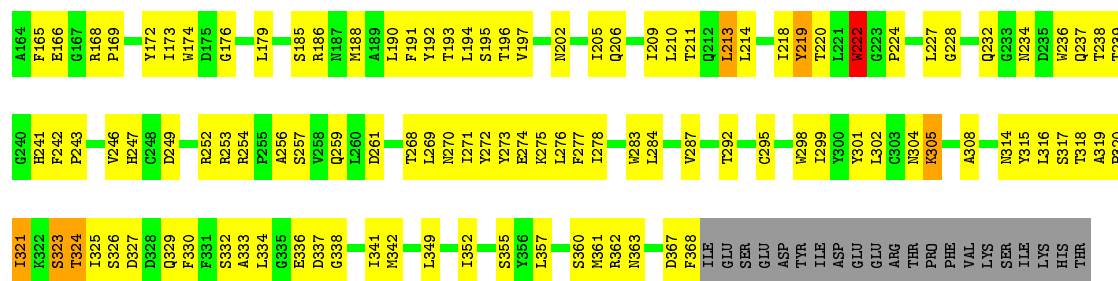
Chain L: 45% 45% 7%



• Molecule 1: Innexin-6

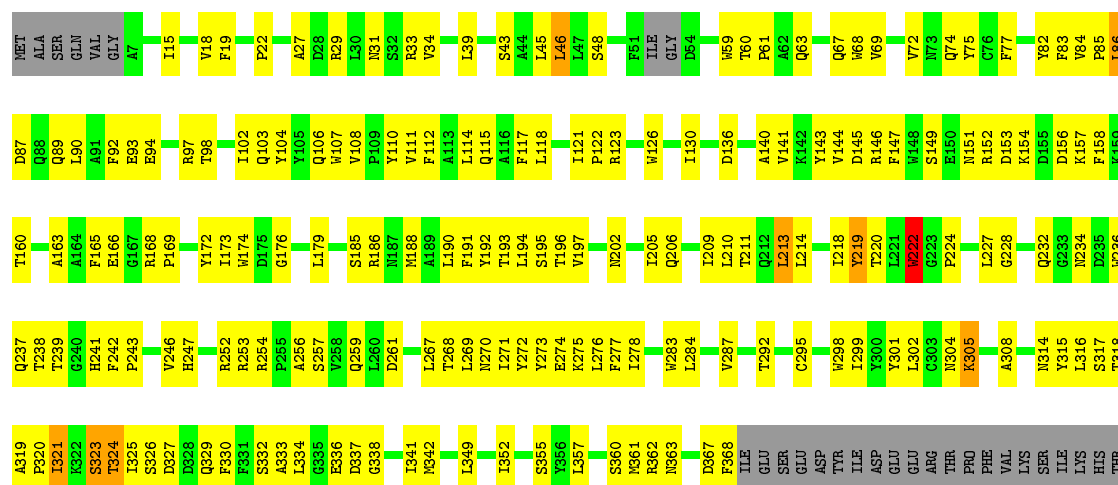
Chain M: 46% 44% 7%





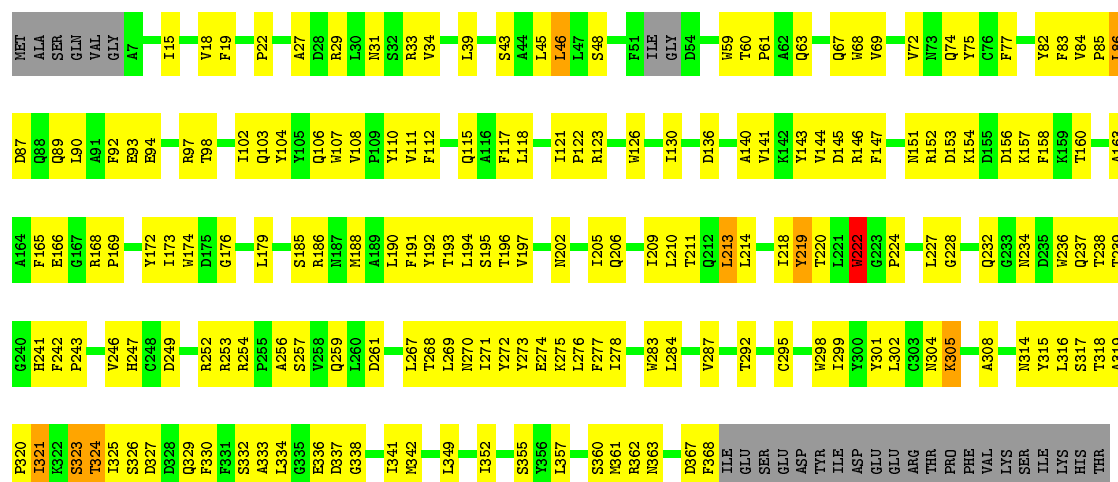
• Molecule 1: Innexin-6

Chain N: 45% 45% 7%



• Molecule 1: Innexin-6

Chain O: 46% 45% 7%



• Molecule 1: Innexin-6

Chain P: 45% 45% 7%




4 Experimental information

Property	Value	Source
Reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	35608	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Not provided	Depositor
Microscope	JEOL 3000SFF	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	Not provided	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 > 2$	RMSZ	# $ Z > 2$
1	A	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	B	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	C	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	D	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	E	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	F	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	G	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	H	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	I	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	J	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	K	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	L	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	M	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	N	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	O	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
1	P	0.74	1/3051 (0.0%)	0.71	1/4155 (0.0%)
All	All	0.74	16/48816 (0.0%)	0.71	16/66480 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	8
1	B	0	8
1	C	0	8
1	D	0	8
1	E	0	8
1	F	0	8
1	G	0	8
1	H	0	8
1	I	0	8

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	J	0	8
1	K	0	8
1	L	0	8
1	M	0	8
1	N	0	8
1	O	0	8
1	P	0	8
All	All	0	128

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	222	TRP	CB-CG	-5.08	1.41	1.50
1	D	222	TRP	CB-CG	-5.08	1.41	1.50
1	K	222	TRP	CB-CG	-5.06	1.41	1.50
1	F	222	TRP	CB-CG	-5.05	1.41	1.50
1	H	222	TRP	CB-CG	-5.05	1.41	1.50
1	J	222	TRP	CB-CG	-5.05	1.41	1.50
1	L	222	TRP	CB-CG	-5.05	1.41	1.50
1	N	222	TRP	CB-CG	-5.05	1.41	1.50
1	P	222	TRP	CB-CG	-5.05	1.41	1.50
1	A	222	TRP	CB-CG	-5.05	1.41	1.50
1	C	222	TRP	CB-CG	-5.05	1.41	1.50
1	I	222	TRP	CB-CG	-5.05	1.41	1.50
1	E	222	TRP	CB-CG	-5.04	1.41	1.50
1	G	222	TRP	CB-CG	-5.04	1.41	1.50
1	M	222	TRP	CB-CG	-5.04	1.41	1.50
1	O	222	TRP	CB-CG	-5.04	1.41	1.50

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	46	LEU	CA-CB-CG	-6.89	99.45	115.30
1	N	46	LEU	CA-CB-CG	-6.89	99.45	115.30
1	G	46	LEU	CA-CB-CG	-6.89	99.46	115.30
1	A	46	LEU	CA-CB-CG	-6.88	99.47	115.30
1	O	46	LEU	CA-CB-CG	-6.88	99.47	115.30
1	C	46	LEU	CA-CB-CG	-6.88	99.48	115.30
1	E	46	LEU	CA-CB-CG	-6.88	99.48	115.30
1	P	46	LEU	CA-CB-CG	-6.88	99.48	115.30
1	K	46	LEU	CA-CB-CG	-6.88	99.48	115.30
1	B	46	LEU	CA-CB-CG	-6.87	99.49	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	46	LEU	CA-CB-CG	-6.87	99.49	115.30
1	H	46	LEU	CA-CB-CG	-6.87	99.49	115.30
1	L	46	LEU	CA-CB-CG	-6.87	99.49	115.30
1	M	46	LEU	CA-CB-CG	-6.87	99.49	115.30
1	D	46	LEU	CA-CB-CG	-6.87	99.51	115.30
1	I	46	LEU	CA-CB-CG	-6.87	99.51	115.30

There are no chirality outliers.

All (128) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	185	SER	Peptide
1	A	213	LEU	Peptide
1	A	222	TRP	Peptide
1	A	256	ALA	Peptide
1	A	324	THR	Peptide
1	A	334	LEU	Peptide
1	A	61	PRO	Peptide
1	A	86	LEU	Peptide
1	B	185	SER	Peptide
1	B	213	LEU	Peptide
1	B	222	TRP	Peptide
1	B	256	ALA	Peptide
1	B	324	THR	Peptide
1	B	334	LEU	Peptide
1	B	61	PRO	Peptide
1	B	86	LEU	Peptide
1	C	185	SER	Peptide
1	C	213	LEU	Peptide
1	C	222	TRP	Peptide
1	C	256	ALA	Peptide
1	C	324	THR	Peptide
1	C	334	LEU	Peptide
1	C	61	PRO	Peptide
1	C	86	LEU	Peptide
1	D	185	SER	Peptide
1	D	213	LEU	Peptide
1	D	222	TRP	Peptide
1	D	256	ALA	Peptide
1	D	324	THR	Peptide
1	D	334	LEU	Peptide
1	D	61	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	D	86	LEU	Peptide
1	E	185	SER	Peptide
1	E	213	LEU	Peptide
1	E	222	TRP	Peptide
1	E	256	ALA	Peptide
1	E	324	THR	Peptide
1	E	334	LEU	Peptide
1	E	61	PRO	Peptide
1	E	86	LEU	Peptide
1	F	185	SER	Peptide
1	F	213	LEU	Peptide
1	F	222	TRP	Peptide
1	F	256	ALA	Peptide
1	F	324	THR	Peptide
1	F	334	LEU	Peptide
1	F	61	PRO	Peptide
1	F	86	LEU	Peptide
1	G	185	SER	Peptide
1	G	213	LEU	Peptide
1	G	222	TRP	Peptide
1	G	256	ALA	Peptide
1	G	324	THR	Peptide
1	G	334	LEU	Peptide
1	G	61	PRO	Peptide
1	G	86	LEU	Peptide
1	H	185	SER	Peptide
1	H	213	LEU	Peptide
1	H	222	TRP	Peptide
1	H	256	ALA	Peptide
1	H	324	THR	Peptide
1	H	334	LEU	Peptide
1	H	61	PRO	Peptide
1	H	86	LEU	Peptide
1	I	185	SER	Peptide
1	I	213	LEU	Peptide
1	I	222	TRP	Peptide
1	I	256	ALA	Peptide
1	I	324	THR	Peptide
1	I	334	LEU	Peptide
1	I	61	PRO	Peptide
1	I	86	LEU	Peptide
1	J	185	SER	Peptide

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Mol	Chain	Res	Type	Group
1	J	213	LEU	Peptide
1	J	222	TRP	Peptide
1	J	256	ALA	Peptide
1	J	324	THR	Peptide
1	J	334	LEU	Peptide
1	J	61	PRO	Peptide
1	J	86	LEU	Peptide
1	K	185	SER	Peptide
1	K	213	LEU	Peptide
1	K	222	TRP	Peptide
1	K	256	ALA	Peptide
1	K	324	THR	Peptide
1	K	334	LEU	Peptide
1	K	61	PRO	Peptide
1	K	86	LEU	Peptide
1	L	185	SER	Peptide
1	L	213	LEU	Peptide
1	L	222	TRP	Peptide
1	L	256	ALA	Peptide
1	L	324	THR	Peptide
1	L	334	LEU	Peptide
1	L	61	PRO	Peptide
1	L	86	LEU	Peptide
1	M	185	SER	Peptide
1	M	213	LEU	Peptide
1	M	222	TRP	Peptide
1	M	256	ALA	Peptide
1	M	324	THR	Peptide
1	M	334	LEU	Peptide
1	M	61	PRO	Peptide
1	M	86	LEU	Peptide
1	N	185	SER	Peptide
1	N	213	LEU	Peptide
1	N	222	TRP	Peptide
1	N	256	ALA	Peptide
1	N	324	THR	Peptide
1	N	334	LEU	Peptide
1	N	61	PRO	Peptide
1	N	86	LEU	Peptide
1	O	185	SER	Peptide
1	O	213	LEU	Peptide
1	O	222	TRP	Peptide

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Mol	Chain	Res	Type	Group
1	O	256	ALA	Peptide
1	O	324	THR	Peptide
1	O	334	LEU	Peptide
1	O	61	PRO	Peptide
1	O	86	LEU	Peptide
1	P	185	SER	Peptide
1	P	213	LEU	Peptide
1	P	222	TRP	Peptide
1	P	256	ALA	Peptide
1	P	324	THR	Peptide
1	P	334	LEU	Peptide
1	P	61	PRO	Peptide
1	P	86	LEU	Peptide

5.2 Too-close contacts ⓘ

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2965	0	2928	188	0
1	B	2965	0	2928	186	0
1	C	2965	0	2928	190	0
1	D	2965	0	2928	193	0
1	E	2965	0	2928	191	0
1	F	2965	0	2928	193	0
1	G	2965	0	2928	191	0
1	H	2965	0	2928	185	0
1	I	2965	0	2928	192	0
1	J	2965	0	2928	185	0
1	K	2965	0	2928	189	0
1	L	2965	0	2928	189	0
1	M	2965	0	2928	191	0
1	N	2965	0	2928	190	0
1	O	2965	0	2928	190	0
1	P	2965	0	2928	193	0
All	All	47440	0	46848	2728	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 29.

All (2728) 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:B:243:PRO:O	1:B:270:ASN:ND2	1.97	0.98
1:G:243:PRO:O	1:G:270:ASN:ND2	1.97	0.98
1:J:243:PRO:O	1:J:270:ASN:ND2	1.97	0.98
1:L:243:PRO:O	1:L:270:ASN:ND2	1.97	0.98
1:I:243:PRO:O	1:I:270:ASN:ND2	1.97	0.98
1:H:243:PRO:O	1:H:270:ASN:ND2	1.97	0.98
1:M:243:PRO:O	1:M:270:ASN:ND2	1.97	0.98
1:C:243:PRO:O	1:C:270:ASN:ND2	1.97	0.97
1:F:243:PRO:O	1:F:270:ASN:ND2	1.97	0.97
1:P:243:PRO:O	1:P:270:ASN:ND2	1.97	0.97
1:E:243:PRO:O	1:E:270:ASN:ND2	1.97	0.96
1:N:243:PRO:O	1:N:270:ASN:ND2	1.97	0.96
1:D:243:PRO:O	1:D:270:ASN:ND2	1.97	0.96
1:O:243:PRO:O	1:O:270:ASN:ND2	1.97	0.96
1:A:243:PRO:O	1:A:270:ASN:ND2	1.97	0.96
1:K:243:PRO:O	1:K:270:ASN:ND2	1.97	0.95
1:D:252:ARG:HH11	1:D:254:ARG:HH12	1.14	0.94
1:I:252:ARG:HH11	1:I:254:ARG:HH12	1.14	0.94
1:E:252:ARG:HH11	1:E:254:ARG:HH12	1.14	0.94
1:N:252:ARG:HH11	1:N:254:ARG:HH12	1.14	0.94
1:O:252:ARG:HH11	1:O:254:ARG:HH12	1.14	0.94
1:P:252:ARG:HH11	1:P:254:ARG:HH12	1.14	0.94
1:G:252:ARG:HH11	1:G:254:ARG:HH12	1.14	0.94
1:F:252:ARG:HH11	1:F:254:ARG:HH12	1.14	0.93
1:H:252:ARG:HH11	1:H:254:ARG:HH12	1.14	0.92
1:J:252:ARG:HH11	1:J:254:ARG:HH12	1.14	0.92
1:M:252:ARG:HH11	1:M:254:ARG:HH12	1.14	0.92
1:C:252:ARG:HH11	1:C:254:ARG:HH12	1.14	0.92
1:A:252:ARG:HH11	1:A:254:ARG:HH12	1.14	0.90
1:L:252:ARG:HH11	1:L:254:ARG:HH12	1.14	0.90
1:B:252:ARG:HH11	1:B:254:ARG:HH12	1.14	0.89
1:K:252:ARG:HH11	1:K:254:ARG:HH12	1.14	0.89
1:A:89:GLN:HG3	1:A:90:LEU:H	1.44	0.83
1:K:89:GLN:HG3	1:K:90:LEU:H	1.44	0.83
1:F:89:GLN:HG3	1:F:90:LEU:H	1.44	0.83
1:I:89:GLN:HG3	1:I:90:LEU:H	1.44	0.83
1:G:89:GLN:HG3	1:G:90:LEU:H	1.44	0.83
1:P:89:GLN:HG3	1:P:90:LEU:H	1.44	0.83
1:L:89:GLN:HG3	1:L:90:LEU:H	1.44	0.82
1:B:89:GLN:HG3	1:B:90:LEU:H	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:89:GLN:HG3	1:E:90:LEU:H	1.44	0.81
1:P:314:ASN:O	1:P:317:SER:OG	1.99	0.81
1:F:314:ASN:O	1:F:317:SER:OG	1.99	0.81
1:E:314:ASN:O	1:E:317:SER:OG	1.99	0.81
1:O:89:GLN:HG3	1:O:90:LEU:H	1.44	0.81
1:O:314:ASN:O	1:O:317:SER:OG	1.99	0.81
1:K:314:ASN:O	1:K:317:SER:OG	1.99	0.81
1:M:89:GLN:HG3	1:M:90:LEU:H	1.44	0.81
1:L:314:ASN:O	1:L:317:SER:OG	1.99	0.81
1:A:314:ASN:O	1:A:317:SER:OG	1.99	0.81
1:C:89:GLN:HG3	1:C:90:LEU:H	1.44	0.81
1:G:314:ASN:O	1:G:317:SER:OG	1.99	0.81
1:I:314:ASN:O	1:I:317:SER:OG	1.99	0.81
1:B:314:ASN:O	1:B:317:SER:OG	1.99	0.81
1:H:314:ASN:O	1:H:317:SER:OG	1.99	0.81
1:J:314:ASN:O	1:J:317:SER:OG	1.99	0.81
1:J:110:TYR:HD2	1:K:275:LYS:HZ2	1.28	0.81
1:O:252:ARG:HH11	1:O:254:ARG:NH1	1.79	0.81
1:D:252:ARG:HH11	1:D:254:ARG:NH1	1.79	0.80
1:D:89:GLN:HG3	1:D:90:LEU:H	1.44	0.80
1:M:252:ARG:HH11	1:M:254:ARG:NH1	1.79	0.80
1:N:252:ARG:HH11	1:N:254:ARG:NH1	1.80	0.80
1:C:252:ARG:HH11	1:C:254:ARG:NH1	1.80	0.80
1:E:252:ARG:HH11	1:E:254:ARG:NH1	1.80	0.80
1:H:89:GLN:HG3	1:H:90:LEU:H	1.44	0.80
1:I:252:ARG:HH11	1:I:254:ARG:NH1	1.79	0.80
1:N:89:GLN:HG3	1:N:90:LEU:H	1.44	0.80
1:P:252:ARG:HH11	1:P:254:ARG:NH1	1.80	0.80
1:B:110:TYR:HD2	1:C:275:LYS:HZ2	1.30	0.80
1:F:252:ARG:HH11	1:F:254:ARG:NH1	1.80	0.80
1:L:252:ARG:HH11	1:L:254:ARG:NH1	1.79	0.80
1:B:252:ARG:HH11	1:B:254:ARG:NH1	1.79	0.80
1:D:314:ASN:O	1:D:317:SER:OG	1.99	0.80
1:N:314:ASN:O	1:N:317:SER:OG	1.99	0.80
1:G:252:ARG:HH11	1:G:254:ARG:NH1	1.80	0.80
1:J:89:GLN:HG3	1:J:90:LEU:H	1.44	0.80
1:J:252:ARG:HH11	1:J:254:ARG:NH1	1.80	0.80
1:H:252:ARG:HH11	1:H:254:ARG:NH1	1.79	0.80
1:A:252:ARG:HH11	1:A:254:ARG:NH1	1.79	0.80
1:K:252:ARG:HH11	1:K:254:ARG:NH1	1.80	0.80
1:L:110:TYR:HD2	1:M:275:LYS:HZ2	1.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:314:ASN:O	1:M:317:SER:OG	1.99	0.79
1:C:314:ASN:O	1:C:317:SER:OG	1.99	0.79
1:A:275:LYS:HZ2	1:H:110:TYR:HD2	1.30	0.79
1:A:110:TYR:HD2	1:B:275:LYS:HZ2	1.31	0.79
1:C:110:TYR:HD2	1:D:275:LYS:HZ2	1.31	0.79
1:N:110:TYR:HD2	1:O:275:LYS:HZ2	1.31	0.79
1:L:239:THR:HB	1:L:241:HIS:CE1	2.19	0.78
1:B:239:THR:HB	1:B:241:HIS:CE1	2.19	0.78
1:H:239:THR:HB	1:H:241:HIS:CE1	2.19	0.78
1:J:239:THR:HB	1:J:241:HIS:CE1	2.19	0.78
1:M:110:TYR:HD2	1:N:275:LYS:HZ2	1.31	0.78
1:E:110:TYR:HD2	1:F:275:LYS:HZ2	1.31	0.78
1:F:239:THR:HB	1:F:241:HIS:CE1	2.19	0.78
1:P:239:THR:HB	1:P:241:HIS:CE1	2.19	0.78
1:F:110:TYR:HD2	1:G:275:LYS:HZ2	1.30	0.78
1:O:110:TYR:HD2	1:P:275:LYS:HZ2	1.31	0.78
1:G:110:TYR:HD2	1:H:275:LYS:HZ2	1.31	0.78
1:K:239:THR:HB	1:K:241:HIS:CE1	2.19	0.78
1:A:239:THR:HB	1:A:241:HIS:CE1	2.19	0.77
1:I:110:TYR:HD2	1:J:275:LYS:HZ2	1.31	0.77
1:O:239:THR:HB	1:O:241:HIS:CE1	2.19	0.77
1:E:239:THR:HB	1:E:241:HIS:CE1	2.19	0.77
1:G:239:THR:HB	1:G:241:HIS:CE1	2.19	0.77
1:I:239:THR:HB	1:I:241:HIS:CE1	2.19	0.77
1:D:239:THR:HB	1:D:241:HIS:CE1	2.19	0.77
1:N:239:THR:HB	1:N:241:HIS:CE1	2.19	0.77
1:C:239:THR:HB	1:C:241:HIS:CE1	2.19	0.76
1:M:239:THR:HB	1:M:241:HIS:CE1	2.19	0.76
1:G:257:SER:HB2	1:K:92:PHE:HE1	1.50	0.76
1:F:18:VAL:O	1:F:33:ARG:NH1	2.20	0.75
1:B:18:VAL:O	1:B:33:ARG:NH1	2.20	0.75
1:H:18:VAL:O	1:H:33:ARG:NH1	2.20	0.75
1:K:46:LEU:HD13	1:K:273:TYR:HE1	1.52	0.75
1:L:18:VAL:O	1:L:33:ARG:NH1	2.20	0.75
1:M:46:LEU:HD13	1:M:273:TYR:HE1	1.52	0.75
1:O:18:VAL:O	1:O:33:ARG:NH1	2.20	0.75
1:P:18:VAL:O	1:P:33:ARG:NH1	2.20	0.75
1:C:46:LEU:HD13	1:C:273:TYR:HE1	1.52	0.74
1:E:18:VAL:O	1:E:33:ARG:NH1	2.20	0.74
1:J:18:VAL:O	1:J:33:ARG:NH1	2.20	0.74
1:D:18:VAL:O	1:D:33:ARG:NH1	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:92:PHE:HE1	1:L:257:SER:HB2	1.52	0.74
1:N:18:VAL:O	1:N:33:ARG:NH1	2.20	0.74
1:A:46:LEU:HD13	1:A:273:TYR:HE1	1.52	0.74
1:B:257:SER:HB2	1:P:92:PHE:HE1	1.52	0.74
1:E:92:PHE:HE1	1:M:257:SER:HB2	1.53	0.74
1:D:92:PHE:HE1	1:N:257:SER:HB2	1.52	0.74
1:C:257:SER:HB2	1:O:92:PHE:HE1	1.53	0.74
1:D:257:SER:HB2	1:N:92:PHE:HE1	1.53	0.74
1:G:18:VAL:O	1:G:33:ARG:NH1	2.20	0.74
1:M:18:VAL:O	1:M:33:ARG:NH1	2.20	0.74
1:C:18:VAL:O	1:C:33:ARG:NH1	2.20	0.74
1:E:46:LEU:HD13	1:E:273:TYR:HE1	1.52	0.74
1:K:18:VAL:O	1:K:33:ARG:NH1	2.20	0.74
1:C:92:PHE:HE1	1:O:257:SER:HB2	1.53	0.74
1:I:18:VAL:O	1:I:33:ARG:NH1	2.20	0.74
1:O:46:LEU:HD13	1:O:273:TYR:HE1	1.52	0.74
1:A:18:VAL:O	1:A:33:ARG:NH1	2.20	0.74
1:G:46:LEU:HD13	1:G:273:TYR:HE1	1.52	0.74
1:E:257:SER:HB2	1:M:92:PHE:HE1	1.53	0.74
1:I:46:LEU:HD13	1:I:273:TYR:HE1	1.52	0.74
1:L:236:TRP:O	1:L:239:THR:OG1	2.05	0.74
1:F:236:TRP:O	1:F:239:THR:OG1	2.05	0.73
1:F:257:SER:HB2	1:L:92:PHE:HE1	1.53	0.73
1:P:236:TRP:O	1:P:239:THR:OG1	2.05	0.73
1:B:92:PHE:HE1	1:P:257:SER:HB2	1.52	0.73
1:N:46:LEU:HD13	1:N:273:TYR:HE1	1.52	0.73
1:A:272:TYR:O	1:A:275:LYS:N	2.22	0.73
1:D:46:LEU:HD13	1:D:273:TYR:HE1	1.52	0.73
1:H:257:SER:HB2	1:J:92:PHE:HE1	1.52	0.73
1:K:272:TYR:O	1:K:275:LYS:N	2.22	0.73
1:M:237:GLN:N	1:M:237:GLN:OE1	2.21	0.73
1:C:237:GLN:N	1:C:237:GLN:OE1	2.21	0.73
1:L:237:GLN:OE1	1:L:237:GLN:N	2.21	0.73
1:B:237:GLN:N	1:B:237:GLN:OE1	2.21	0.73
1:E:272:TYR:O	1:E:275:LYS:N	2.22	0.73
1:J:272:TYR:O	1:J:275:LYS:N	2.22	0.73
1:B:93:GLU:HG3	1:B:94:GLU:H	1.54	0.73
1:E:93:GLU:HG3	1:E:94:GLU:H	1.54	0.73
1:H:236:TRP:O	1:H:239:THR:OG1	2.05	0.73
1:H:272:TYR:O	1:H:275:LYS:N	2.22	0.73
1:H:46:LEU:HD13	1:H:273:TYR:HE1	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:92:PHE:HE1	1:J:257:SER:HB2	1.53	0.73
1:L:93:GLU:HG3	1:L:94:GLU:H	1.54	0.73
1:O:272:TYR:O	1:O:275:LYS:N	2.22	0.73
1:D:93:GLU:HG3	1:D:94:GLU:H	1.54	0.73
1:G:118:LEU:O	1:G:202:ASN:ND2	2.22	0.73
1:N:272:TYR:O	1:N:275:LYS:N	2.22	0.73
1:B:46:LEU:HD13	1:B:273:TYR:HE1	1.52	0.73
1:D:237:GLN:OE1	1:D:237:GLN:N	2.21	0.73
1:D:272:TYR:O	1:D:275:LYS:N	2.22	0.73
1:F:93:GLU:HG3	1:F:94:GLU:H	1.54	0.73
1:I:118:LEU:O	1:I:202:ASN:ND2	2.22	0.73
1:A:92:PHE:HE1	1:I:257:SER:HB2	1.53	0.73
1:J:46:LEU:HD13	1:J:273:TYR:HE1	1.52	0.73
1:N:237:GLN:N	1:N:237:GLN:OE1	2.21	0.73
1:N:93:GLU:HG3	1:N:94:GLU:H	1.54	0.73
1:O:93:GLU:HG3	1:O:94:GLU:H	1.54	0.73
1:P:118:LEU:O	1:P:202:ASN:ND2	2.22	0.73
1:A:257:SER:HB2	1:I:92:PHE:HE1	1.53	0.72
1:B:272:TYR:O	1:B:275:LYS:N	2.22	0.72
1:F:118:LEU:O	1:F:202:ASN:ND2	2.22	0.72
1:P:93:GLU:HG3	1:P:94:GLU:H	1.54	0.72
1:F:272:TYR:O	1:F:275:LYS:N	2.22	0.72
1:G:93:GLU:HG3	1:G:94:GLU:H	1.54	0.72
1:L:46:LEU:HD13	1:L:273:TYR:HE1	1.52	0.72
1:L:272:TYR:O	1:L:275:LYS:N	2.22	0.72
1:G:237:GLN:N	1:G:237:GLN:OE1	2.21	0.72
1:I:272:TYR:O	1:I:275:LYS:N	2.22	0.72
1:I:93:GLU:HG3	1:I:94:GLU:H	1.54	0.72
1:P:272:TYR:O	1:P:275:LYS:N	2.22	0.72
1:A:93:GLU:HG3	1:A:94:GLU:H	1.54	0.72
1:E:237:GLN:OE1	1:E:237:GLN:N	2.21	0.72
1:G:272:TYR:O	1:G:275:LYS:N	2.22	0.72
1:H:237:GLN:N	1:H:237:GLN:OE1	2.21	0.72
1:O:237:GLN:N	1:O:237:GLN:OE1	2.21	0.72
1:F:237:GLN:N	1:F:237:GLN:OE1	2.21	0.72
1:I:237:GLN:OE1	1:I:237:GLN:N	2.21	0.72
1:J:237:GLN:N	1:J:237:GLN:OE1	2.21	0.72
1:M:93:GLU:HG3	1:M:94:GLU:H	1.54	0.72
1:C:93:GLU:HG3	1:C:94:GLU:H	1.54	0.72
1:K:93:GLU:HG3	1:K:94:GLU:H	1.54	0.72
1:P:237:GLN:OE1	1:P:237:GLN:N	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:118:LEU:O	1:H:202:ASN:ND2	2.22	0.72
1:M:272:TYR:O	1:M:275:LYS:N	2.22	0.72
1:A:237:GLN:N	1:A:237:GLN:OE1	2.21	0.72
1:C:118:LEU:O	1:C:202:ASN:ND2	2.22	0.72
1:J:118:LEU:O	1:J:202:ASN:ND2	2.22	0.72
1:M:118:LEU:O	1:M:202:ASN:ND2	2.22	0.72
1:P:46:LEU:HD13	1:P:273:TYR:HE1	1.52	0.72
1:C:272:TYR:O	1:C:275:LYS:N	2.22	0.72
1:K:236:TRP:O	1:K:239:THR:OG1	2.05	0.72
1:J:93:GLU:HG3	1:J:94:GLU:H	1.54	0.71
1:K:237:GLN:N	1:K:237:GLN:OE1	2.21	0.71
1:H:93:GLU:HG3	1:H:94:GLU:H	1.54	0.71
1:A:236:TRP:O	1:A:239:THR:OG1	2.05	0.71
1:O:118:LEU:O	1:O:202:ASN:ND2	2.22	0.71
1:E:318:THR:HG23	1:E:319:ALA:H	1.56	0.71
1:F:46:LEU:HD13	1:F:273:TYR:HE1	1.52	0.71
1:K:118:LEU:O	1:K:202:ASN:ND2	2.22	0.71
1:L:118:LEU:O	1:L:202:ASN:ND2	2.22	0.71
1:N:318:THR:HG23	1:N:319:ALA:H	1.56	0.71
1:B:118:LEU:O	1:B:202:ASN:ND2	2.22	0.71
1:D:318:THR:HG23	1:D:319:ALA:H	1.56	0.71
1:E:118:LEU:O	1:E:202:ASN:ND2	2.22	0.71
1:O:318:THR:HG23	1:O:319:ALA:H	1.56	0.71
1:A:118:LEU:O	1:A:202:ASN:ND2	2.22	0.71
1:C:318:THR:HG23	1:C:319:ALA:H	1.56	0.71
1:I:236:TRP:O	1:I:239:THR:OG1	2.05	0.71
1:M:318:THR:HG23	1:M:319:ALA:H	1.56	0.71
1:D:118:LEU:O	1:D:202:ASN:ND2	2.22	0.71
1:G:236:TRP:O	1:G:239:THR:OG1	2.05	0.71
1:N:118:LEU:O	1:N:202:ASN:ND2	2.22	0.70
1:F:318:THR:HG23	1:F:319:ALA:H	1.56	0.70
1:B:318:THR:HG23	1:B:319:ALA:H	1.56	0.70
1:K:318:THR:HG23	1:K:319:ALA:H	1.56	0.70
1:L:318:THR:HG23	1:L:319:ALA:H	1.56	0.70
1:P:318:THR:HG23	1:P:319:ALA:H	1.56	0.70
1:A:318:THR:HG23	1:A:319:ALA:H	1.56	0.70
1:J:318:THR:HG23	1:J:319:ALA:H	1.56	0.70
1:H:318:THR:HG23	1:H:319:ALA:H	1.56	0.70
1:B:236:TRP:O	1:B:239:THR:OG1	2.05	0.70
1:N:236:TRP:O	1:N:239:THR:OG1	2.05	0.69
1:O:236:TRP:O	1:O:239:THR:OG1	2.05	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:236:TRP:O	1:M:239:THR:OG1	2.05	0.69
1:D:236:TRP:O	1:D:239:THR:OG1	2.05	0.69
1:E:236:TRP:O	1:E:239:THR:OG1	2.05	0.69
1:I:318:THR:HG23	1:I:319:ALA:H	1.56	0.69
1:C:236:TRP:O	1:C:239:THR:OG1	2.05	0.69
1:G:318:THR:HG23	1:G:319:ALA:H	1.56	0.69
1:G:92:PHE:HE1	1:K:257:SER:HB2	1.57	0.69
1:G:257:SER:HB2	1:K:92:PHE:CE1	2.29	0.68
1:J:236:TRP:O	1:J:239:THR:OG1	2.05	0.68
1:B:236:TRP:HB2	1:B:242:PHE:O	1.95	0.67
1:J:179:LEU:HD22	1:K:352:ILE:HA	1.76	0.67
1:L:236:TRP:HB2	1:L:242:PHE:O	1.95	0.67
1:O:236:TRP:HB2	1:O:242:PHE:O	1.95	0.67
1:P:236:TRP:HB2	1:P:242:PHE:O	1.95	0.67
1:F:236:TRP:HB2	1:F:242:PHE:O	1.95	0.67
1:G:236:TRP:HB2	1:G:242:PHE:O	1.95	0.67
1:E:236:TRP:HB2	1:E:242:PHE:O	1.95	0.67
1:I:236:TRP:HB2	1:I:242:PHE:O	1.95	0.67
1:C:236:TRP:HB2	1:C:242:PHE:O	1.95	0.67
1:M:236:TRP:HB2	1:M:242:PHE:O	1.95	0.67
1:J:236:TRP:HB2	1:J:242:PHE:O	1.95	0.67
1:H:236:TRP:HB2	1:H:242:PHE:O	1.95	0.67
1:D:236:TRP:HB2	1:D:242:PHE:O	1.95	0.66
1:A:39:LEU:HD23	1:A:115:GLN:HB3	1.77	0.66
1:N:236:TRP:HB2	1:N:242:PHE:O	1.95	0.66
1:A:179:LEU:HD22	1:B:352:ILE:HA	1.78	0.66
1:K:236:TRP:HB2	1:K:242:PHE:O	1.95	0.66
1:C:39:LEU:HD23	1:C:115:GLN:HB3	1.77	0.66
1:G:39:LEU:HD23	1:G:115:GLN:HB3	1.78	0.66
1:I:39:LEU:HD23	1:I:115:GLN:HB3	1.78	0.66
1:K:39:LEU:HD23	1:K:115:GLN:HB3	1.78	0.66
1:A:236:TRP:HB2	1:A:242:PHE:O	1.95	0.66
1:E:179:LEU:HD22	1:F:352:ILE:HA	1.78	0.66
1:F:31:ASN:HA	1:F:34:VAL:HG12	1.78	0.66
1:I:352:ILE:HA	1:P:179:LEU:HD22	1.77	0.66
1:P:31:ASN:HA	1:P:34:VAL:HG12	1.78	0.66
1:O:179:LEU:HD22	1:P:352:ILE:HA	1.78	0.66
1:D:228:GLY:O	1:D:232:GLN:HG2	1.96	0.66
1:F:141:VAL:O	1:F:145:ASP:HB2	1.96	0.66
1:L:39:LEU:HD23	1:L:115:GLN:HB3	1.78	0.66
1:M:39:LEU:HD23	1:M:115:GLN:HB3	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:141:VAL:O	1:P:145:ASP:HB2	1.96	0.66
1:N:228:GLY:O	1:N:232:GLN:HG2	1.96	0.66
1:B:39:LEU:HD23	1:B:115:GLN:HB3	1.78	0.66
1:D:179:LEU:HD22	1:E:352:ILE:HA	1.78	0.66
1:G:31:ASN:HA	1:G:34:VAL:HG12	1.78	0.66
1:M:179:LEU:HD22	1:N:352:ILE:HA	1.78	0.66
1:N:141:VAL:O	1:N:145:ASP:HB2	1.96	0.66
1:F:228:GLY:O	1:F:232:GLN:HG2	1.96	0.66
1:I:31:ASN:HA	1:I:34:VAL:HG12	1.78	0.66
1:O:141:VAL:O	1:O:145:ASP:HB2	1.96	0.66
1:P:228:GLY:O	1:P:232:GLN:HG2	1.96	0.66
1:D:141:VAL:O	1:D:145:ASP:HB2	1.96	0.66
1:C:179:LEU:HD22	1:D:352:ILE:HA	1.78	0.65
1:B:179:LEU:HD22	1:C:352:ILE:HA	1.78	0.65
1:E:141:VAL:O	1:E:145:ASP:HB2	1.96	0.65
1:E:31:ASN:HA	1:E:34:VAL:HG12	1.78	0.65
1:G:179:LEU:HD22	1:H:352:ILE:HA	1.78	0.65
1:J:39:LEU:HD23	1:J:115:GLN:HB3	1.78	0.65
1:O:31:ASN:HA	1:O:34:VAL:HG12	1.78	0.65
1:F:179:LEU:HD22	1:G:352:ILE:HA	1.78	0.65
1:K:141:VAL:O	1:K:145:ASP:HB2	1.96	0.65
1:N:39:LEU:HD23	1:N:115:GLN:HB3	1.78	0.65
1:A:141:VAL:O	1:A:145:ASP:HB2	1.96	0.65
1:D:39:LEU:HD23	1:D:115:GLN:HB3	1.78	0.65
1:E:39:LEU:HD23	1:E:115:GLN:HB3	1.78	0.65
1:H:39:LEU:HD23	1:H:115:GLN:HB3	1.78	0.65
1:J:31:ASN:HA	1:J:34:VAL:HG12	1.78	0.65
1:A:228:GLY:O	1:A:232:GLN:HG2	1.96	0.65
1:A:352:ILE:HA	1:H:179:LEU:HD22	1.79	0.65
1:H:228:GLY:O	1:H:232:GLN:HG2	1.96	0.65
1:H:31:ASN:HA	1:H:34:VAL:HG12	1.78	0.65
1:J:228:GLY:O	1:J:232:GLN:HG2	1.96	0.65
1:K:228:GLY:O	1:K:232:GLN:HG2	1.96	0.65
1:O:39:LEU:HD23	1:O:115:GLN:HB3	1.78	0.65
1:N:179:LEU:HD22	1:O:352:ILE:HA	1.79	0.65
1:C:141:VAL:O	1:C:145:ASP:HB2	1.96	0.65
1:L:179:LEU:HD22	1:M:352:ILE:HA	1.79	0.65
1:B:228:GLY:O	1:B:232:GLN:HG2	1.96	0.65
1:D:31:ASN:HA	1:D:34:VAL:HG12	1.78	0.65
1:L:228:GLY:O	1:L:232:GLN:HG2	1.96	0.65
1:M:141:VAL:O	1:M:145:ASP:HB2	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:31:ASN:HA	1:N:34:VAL:HG12	1.78	0.65
1:P:39:LEU:HD23	1:P:115:GLN:HB3	1.77	0.65
1:G:141:VAL:O	1:G:145:ASP:HB2	1.96	0.65
1:A:31:ASN:HA	1:A:34:VAL:HG12	1.78	0.65
1:B:141:VAL:O	1:B:145:ASP:HB2	1.96	0.65
1:E:236:TRP:HD1	1:E:243:PRO:HA	1.62	0.65
1:I:141:VAL:O	1:I:145:ASP:HB2	1.96	0.65
1:I:179:LEU:HD22	1:J:352:ILE:HA	1.78	0.65
1:M:228:GLY:O	1:M:232:GLN:HG2	1.96	0.65
1:O:236:TRP:HD1	1:O:243:PRO:HA	1.62	0.65
1:C:228:GLY:O	1:C:232:GLN:HG2	1.96	0.65
1:F:39:LEU:HD23	1:F:115:GLN:HB3	1.78	0.65
1:I:228:GLY:O	1:I:232:GLN:HG2	1.96	0.65
1:J:252:ARG:NH1	1:J:254:ARG:HH12	1.93	0.65
1:L:141:VAL:O	1:L:145:ASP:HB2	1.96	0.65
1:D:236:TRP:HD1	1:D:243:PRO:HA	1.62	0.64
1:G:228:GLY:O	1:G:232:GLN:HG2	1.96	0.64
1:K:31:ASN:HA	1:K:34:VAL:HG12	1.78	0.64
1:N:236:TRP:HD1	1:N:243:PRO:HA	1.62	0.64
1:O:228:GLY:O	1:O:232:GLN:HG2	1.96	0.64
1:H:252:ARG:NH1	1:H:254:ARG:HH12	1.93	0.64
1:L:222:TRP:CZ3	1:L:224:PRO:HG2	2.33	0.64
1:B:222:TRP:CZ3	1:B:224:PRO:HG2	2.33	0.64
1:E:228:GLY:O	1:E:232:GLN:HG2	1.96	0.64
1:C:31:ASN:HA	1:C:34:VAL:HG12	1.78	0.64
1:F:236:TRP:HD1	1:F:243:PRO:HA	1.62	0.64
1:H:141:VAL:O	1:H:145:ASP:HB2	1.96	0.64
1:H:222:TRP:CZ3	1:H:224:PRO:HG2	2.33	0.64
1:J:222:TRP:CZ3	1:J:224:PRO:HG2	2.33	0.64
1:L:31:ASN:HA	1:L:34:VAL:HG12	1.78	0.64
1:M:31:ASN:HA	1:M:34:VAL:HG12	1.78	0.64
1:J:141:VAL:O	1:J:145:ASP:HB2	1.96	0.64
1:P:236:TRP:HD1	1:P:243:PRO:HA	1.62	0.64
1:G:222:TRP:CZ3	1:G:224:PRO:HG2	2.33	0.64
1:I:222:TRP:CZ3	1:I:224:PRO:HG2	2.33	0.64
1:B:31:ASN:HA	1:B:34:VAL:HG12	1.78	0.64
1:D:92:PHE:CE1	1:N:257:SER:HB2	2.33	0.64
1:P:222:TRP:CZ3	1:P:224:PRO:HG2	2.33	0.64
1:F:222:TRP:CZ3	1:F:224:PRO:HG2	2.33	0.64
1:M:236:TRP:HD1	1:M:243:PRO:HA	1.62	0.64
1:C:236:TRP:HD1	1:C:243:PRO:HA	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:222:TRP:CZ3	1:D:224:PRO:HG2	2.33	0.64
1:N:222:TRP:CZ3	1:N:224:PRO:HG2	2.33	0.64
1:C:92:PHE:CE1	1:O:257:SER:HB2	2.33	0.64
1:I:252:ARG:NH1	1:I:254:ARG:HH12	1.93	0.64
1:D:257:SER:HB2	1:N:92:PHE:CE1	2.33	0.64
1:O:222:TRP:CZ3	1:O:224:PRO:HG2	2.33	0.64
1:B:236:TRP:HD1	1:B:243:PRO:HA	1.62	0.63
1:G:236:TRP:HD1	1:G:243:PRO:HA	1.62	0.63
1:I:236:TRP:HD1	1:I:243:PRO:HA	1.62	0.63
1:L:236:TRP:HD1	1:L:243:PRO:HA	1.62	0.63
1:E:222:TRP:CZ3	1:E:224:PRO:HG2	2.33	0.63
1:M:222:TRP:CZ3	1:M:224:PRO:HG2	2.33	0.63
1:C:222:TRP:CZ3	1:C:224:PRO:HG2	2.33	0.63
1:G:252:ARG:NH1	1:G:254:ARG:HH12	1.93	0.63
1:K:222:TRP:CZ3	1:K:224:PRO:HG2	2.33	0.63
1:B:257:SER:HB2	1:P:92:PHE:CE1	2.33	0.63
1:F:92:PHE:CE1	1:L:257:SER:HB2	2.33	0.63
1:K:179:LEU:HD22	1:L:352:ILE:HA	1.81	0.63
1:A:222:TRP:CZ3	1:A:224:PRO:HG2	2.33	0.63
1:F:357:LEU:O	1:F:360:SER:OG	2.11	0.63
1:F:257:SER:HB2	1:L:92:PHE:CE1	2.33	0.63
1:H:257:SER:HB2	1:J:92:PHE:CE1	2.33	0.63
1:N:84:VAL:HG12	1:N:247:HIS:CD2	2.34	0.63
1:B:92:PHE:CE1	1:P:257:SER:HB2	2.33	0.63
1:P:357:LEU:O	1:P:360:SER:OG	2.11	0.63
1:B:84:VAL:HG12	1:B:247:HIS:CD2	2.34	0.63
1:D:84:VAL:HG12	1:D:247:HIS:CD2	2.34	0.63
1:L:84:VAL:HG12	1:L:247:HIS:CD2	2.34	0.63
1:A:92:PHE:CE1	1:I:257:SER:HB2	2.34	0.63
1:C:84:VAL:HG12	1:C:247:HIS:CD2	2.34	0.63
1:J:84:VAL:HG12	1:J:247:HIS:CD2	2.34	0.63
1:M:84:VAL:HG12	1:M:247:HIS:CD2	2.34	0.63
1:A:84:VAL:HG12	1:A:247:HIS:CD2	2.34	0.62
1:E:84:VAL:HG12	1:E:247:HIS:CD2	2.34	0.62
1:G:357:LEU:O	1:G:360:SER:OG	2.11	0.62
1:H:84:VAL:HG12	1:H:247:HIS:CD2	2.34	0.62
1:N:261:ASP:N	1:N:261:ASP:OD1	2.32	0.62
1:O:84:VAL:HG12	1:O:247:HIS:CD2	2.34	0.62
1:A:357:LEU:O	1:A:360:SER:OG	2.11	0.62
1:D:261:ASP:N	1:D:261:ASP:OD1	2.32	0.62
1:K:84:VAL:HG12	1:K:247:HIS:CD2	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:357:LEU:O	1:I:360:SER:OG	2.11	0.62
1:H:92:PHE:CE1	1:J:257:SER:HB2	2.33	0.62
1:K:357:LEU:O	1:K:360:SER:OG	2.11	0.62
1:P:252:ARG:NH1	1:P:254:ARG:HH12	1.93	0.62
1:M:261:ASP:N	1:M:261:ASP:OD1	2.32	0.62
1:C:261:ASP:OD1	1:C:261:ASP:N	2.32	0.62
1:E:284:LEU:O	1:E:287:VAL:N	2.33	0.62
1:A:284:LEU:O	1:A:287:VAL:N	2.33	0.62
1:N:284:LEU:O	1:N:287:VAL:N	2.33	0.62
1:O:284:LEU:O	1:O:287:VAL:N	2.33	0.62
1:A:236:TRP:HD1	1:A:243:PRO:HA	1.62	0.62
1:D:284:LEU:O	1:D:287:VAL:N	2.33	0.62
1:F:252:ARG:NH1	1:F:254:ARG:HH12	1.93	0.62
1:F:284:LEU:O	1:F:287:VAL:N	2.33	0.62
1:K:284:LEU:O	1:K:287:VAL:N	2.33	0.62
1:P:284:LEU:O	1:P:287:VAL:N	2.33	0.62
1:K:236:TRP:HD1	1:K:243:PRO:HA	1.62	0.62
1:H:236:TRP:HD1	1:H:243:PRO:HA	1.62	0.62
1:M:284:LEU:O	1:M:287:VAL:N	2.33	0.62
1:C:284:LEU:O	1:C:287:VAL:N	2.33	0.61
1:E:357:LEU:O	1:E:360:SER:OG	2.11	0.61
1:G:84:VAL:HG12	1:G:247:HIS:CD2	2.34	0.61
1:I:84:VAL:HG12	1:I:247:HIS:CD2	2.34	0.61
1:J:236:TRP:HD1	1:J:243:PRO:HA	1.62	0.61
1:O:357:LEU:O	1:O:360:SER:OG	2.11	0.61
1:P:84:VAL:HG12	1:P:247:HIS:CD2	2.34	0.61
1:F:84:VAL:HG12	1:F:247:HIS:CD2	2.34	0.61
1:H:284:LEU:O	1:H:287:VAL:N	2.33	0.61
1:J:284:LEU:O	1:J:287:VAL:N	2.33	0.61
1:E:92:PHE:CE1	1:M:257:SER:HB2	2.33	0.61
1:G:284:LEU:O	1:G:287:VAL:N	2.33	0.61
1:H:261:ASP:OD1	1:H:261:ASP:N	2.32	0.61
1:L:261:ASP:OD1	1:L:261:ASP:N	2.32	0.61
1:I:284:LEU:O	1:I:287:VAL:N	2.33	0.61
1:C:257:SER:HB2	1:O:92:PHE:CE1	2.33	0.61
1:B:261:ASP:N	1:B:261:ASP:OD1	2.32	0.61
1:G:111:VAL:O	1:G:115:GLN:HG2	2.01	0.61
1:I:111:VAL:O	1:I:115:GLN:HG2	2.01	0.61
1:J:261:ASP:OD1	1:J:261:ASP:N	2.32	0.61
1:A:257:SER:HB2	1:I:92:PHE:CE1	2.34	0.61
1:K:111:VAL:O	1:K:115:GLN:HG2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:252:ARG:NH1	1:O:254:ARG:HH12	1.93	0.61
1:A:111:VAL:O	1:A:115:GLN:HG2	2.01	0.61
1:O:168:ARG:NH2	1:P:153:ASP:O	2.28	0.61
1:B:111:VAL:O	1:B:115:GLN:HG2	2.01	0.61
1:C:59:TRP:O	1:C:59:TRP:CG	2.54	0.61
1:E:261:ASP:N	1:E:261:ASP:OD1	2.32	0.61
1:E:168:ARG:NH2	1:F:153:ASP:O	2.29	0.61
1:M:59:TRP:CG	1:M:59:TRP:O	2.54	0.61
1:O:261:ASP:OD1	1:O:261:ASP:N	2.32	0.61
1:B:59:TRP:O	1:B:59:TRP:CG	2.54	0.61
1:D:327:ASP:O	1:D:330:PHE:N	2.34	0.61
1:L:284:LEU:O	1:L:287:VAL:N	2.33	0.61
1:L:59:TRP:O	1:L:59:TRP:CG	2.54	0.61
1:N:111:VAL:O	1:N:115:GLN:HG2	2.01	0.61
1:N:327:ASP:O	1:N:330:PHE:N	2.34	0.61
1:B:284:LEU:O	1:B:287:VAL:N	2.33	0.60
1:D:111:VAL:O	1:D:115:GLN:HG2	2.01	0.60
1:E:111:VAL:O	1:E:115:GLN:HG2	2.01	0.60
1:E:252:ARG:NH1	1:E:254:ARG:HH12	1.93	0.60
1:F:102:ILE:HD11	1:F:104:TYR:HE2	1.66	0.60
1:F:136:ASP:OD1	1:F:136:ASP:N	2.31	0.60
1:H:111:VAL:O	1:H:115:GLN:HG2	2.01	0.60
1:J:111:VAL:O	1:J:115:GLN:HG2	2.01	0.60
1:L:111:VAL:O	1:L:115:GLN:HG2	2.01	0.60
1:O:111:VAL:O	1:O:115:GLN:HG2	2.01	0.60
1:P:136:ASP:N	1:P:136:ASP:OD1	2.31	0.60
1:E:102:ILE:HD11	1:E:104:TYR:HE2	1.66	0.60
1:E:327:ASP:O	1:E:330:PHE:N	2.34	0.60
1:G:147:PHE:HD1	1:G:168:ARG:HH11	1.49	0.60
1:I:147:PHE:HD1	1:I:168:ARG:HH11	1.49	0.60
1:O:102:ILE:HD11	1:O:104:TYR:HE2	1.66	0.60
1:O:327:ASP:O	1:O:330:PHE:N	2.34	0.60
1:D:59:TRP:O	1:D:59:TRP:CG	2.54	0.60
1:F:261:ASP:N	1:F:261:ASP:OD1	2.32	0.60
1:G:102:ILE:HD11	1:G:104:TYR:HE2	1.66	0.60
1:H:102:ILE:HD11	1:H:104:TYR:HE2	1.66	0.60
1:H:147:PHE:HD1	1:H:168:ARG:HH11	1.49	0.60
1:H:357:LEU:O	1:H:360:SER:OG	2.11	0.60
1:I:102:ILE:HD11	1:I:104:TYR:HE2	1.66	0.60
1:J:102:ILE:HD11	1:J:104:TYR:HE2	1.66	0.60
1:J:147:PHE:HD1	1:J:168:ARG:HH11	1.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:338:GLY:O	1:D:342:MET:HG2	2.02	0.60
1:I:338:GLY:O	1:I:342:MET:HG2	2.02	0.60
1:J:74:GLN:O	1:J:77:PHE:N	2.35	0.60
1:K:102:ILE:HD11	1:K:104:TYR:HE2	1.66	0.60
1:M:111:VAL:O	1:M:115:GLN:HG2	2.01	0.60
1:N:338:GLY:O	1:N:342:MET:HG2	2.02	0.60
1:N:59:TRP:CG	1:N:59:TRP:O	2.54	0.60
1:P:102:ILE:HD11	1:P:104:TYR:HE2	1.66	0.60
1:A:102:ILE:HD11	1:A:104:TYR:HE2	1.66	0.60
1:A:327:ASP:O	1:A:330:PHE:N	2.34	0.60
1:C:111:VAL:O	1:C:115:GLN:HG2	2.01	0.60
1:C:327:ASP:O	1:C:330:PHE:N	2.34	0.60
1:F:327:ASP:O	1:F:330:PHE:N	2.34	0.60
1:H:74:GLN:O	1:H:77:PHE:N	2.35	0.60
1:P:261:ASP:N	1:P:261:ASP:OD1	2.32	0.60
1:G:338:GLY:O	1:G:342:MET:HG2	2.02	0.60
1:I:327:ASP:O	1:I:330:PHE:N	2.34	0.60
1:J:357:LEU:O	1:J:360:SER:OG	2.11	0.60
1:K:327:ASP:O	1:K:330:PHE:N	2.34	0.60
1:P:327:ASP:O	1:P:330:PHE:N	2.34	0.60
1:B:327:ASP:O	1:B:330:PHE:N	2.34	0.60
1:D:147:PHE:HD1	1:D:168:ARG:HH11	1.49	0.60
1:F:74:GLN:O	1:F:77:PHE:N	2.35	0.60
1:G:327:ASP:O	1:G:330:PHE:N	2.34	0.60
1:G:74:GLN:O	1:G:77:PHE:N	2.35	0.60
1:K:261:ASP:N	1:K:261:ASP:OD1	2.32	0.60
1:M:327:ASP:O	1:M:330:PHE:N	2.34	0.60
1:P:74:GLN:O	1:P:77:PHE:N	2.35	0.60
1:A:144:VAL:O	1:A:147:PHE:HB3	2.02	0.60
1:H:327:ASP:O	1:H:330:PHE:N	2.34	0.60
1:I:74:GLN:O	1:I:77:PHE:N	2.35	0.60
1:J:327:ASP:O	1:J:330:PHE:N	2.34	0.60
1:K:144:VAL:O	1:K:147:PHE:HB3	2.02	0.60
1:K:147:PHE:HD1	1:K:168:ARG:HH11	1.49	0.60
1:L:327:ASP:O	1:L:330:PHE:N	2.34	0.60
1:M:147:PHE:HD1	1:M:168:ARG:HH11	1.49	0.60
1:E:257:SER:HB2	1:M:92:PHE:CE1	2.33	0.60
1:N:147:PHE:HD1	1:N:168:ARG:HH11	1.49	0.60
1:O:144:VAL:O	1:O:147:PHE:HB3	2.02	0.60
1:A:147:PHE:HD1	1:A:168:ARG:HH11	1.49	0.60
1:A:261:ASP:OD1	1:A:261:ASP:N	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:VAL:O	1:B:147:PHE:HB3	2.02	0.60
1:C:147:PHE:HD1	1:C:168:ARG:HH11	1.49	0.60
1:K:59:TRP:O	1:K:59:TRP:CG	2.54	0.60
1:P:59:TRP:CG	1:P:59:TRP:O	2.54	0.60
1:D:102:ILE:HD11	1:D:104:TYR:HE2	1.66	0.60
1:E:144:VAL:O	1:E:147:PHE:HB3	2.02	0.60
1:E:338:GLY:O	1:E:342:MET:HG2	2.02	0.60
1:F:111:VAL:O	1:F:115:GLN:HG2	2.01	0.60
1:F:140:ALA:O	1:F:144:VAL:HG12	2.02	0.60
1:F:59:TRP:O	1:F:59:TRP:CG	2.54	0.60
1:M:252:ARG:NH1	1:M:254:ARG:HH12	1.93	0.60
1:N:102:ILE:HD11	1:N:104:TYR:HE2	1.66	0.60
1:N:252:ARG:NH1	1:N:254:ARG:HH12	1.93	0.60
1:P:140:ALA:O	1:P:144:VAL:HG12	2.02	0.60
1:P:144:VAL:O	1:P:147:PHE:HB3	2.02	0.60
1:A:59:TRP:O	1:A:59:TRP:CG	2.54	0.59
1:F:144:VAL:O	1:F:147:PHE:HB3	2.02	0.59
1:G:59:TRP:CG	1:G:59:TRP:O	2.54	0.59
1:I:140:ALA:O	1:I:144:VAL:HG12	2.02	0.59
1:I:59:TRP:CG	1:I:59:TRP:O	2.54	0.59
1:J:144:VAL:O	1:J:147:PHE:HB3	2.02	0.59
1:K:74:GLN:O	1:K:77:PHE:N	2.35	0.59
1:L:144:VAL:O	1:L:147:PHE:HB3	2.02	0.59
1:M:357:LEU:O	1:M:360:SER:OG	2.11	0.59
1:P:111:VAL:O	1:P:115:GLN:HG2	2.01	0.59
1:A:140:ALA:O	1:A:144:VAL:HG12	2.02	0.59
1:A:74:GLN:O	1:A:77:PHE:N	2.35	0.59
1:B:102:ILE:HD11	1:B:104:TYR:HE2	1.66	0.59
1:B:338:GLY:O	1:B:342:MET:HG2	2.02	0.59
1:C:252:ARG:NH1	1:C:254:ARG:HH12	1.93	0.59
1:E:59:TRP:O	1:E:59:TRP:CG	2.54	0.59
1:G:140:ALA:O	1:G:144:VAL:HG12	2.02	0.59
1:H:144:VAL:O	1:H:147:PHE:HB3	2.02	0.59
1:L:338:GLY:O	1:L:342:MET:HG2	2.02	0.59
1:M:338:GLY:O	1:M:342:MET:HG2	2.02	0.59
1:O:59:TRP:O	1:O:59:TRP:CG	2.54	0.59
1:A:168:ARG:NH2	1:B:153:ASP:O	2.28	0.59
1:B:74:GLN:O	1:B:77:PHE:N	2.35	0.59
1:C:144:VAL:O	1:C:147:PHE:HB3	2.02	0.59
1:C:338:GLY:O	1:C:342:MET:HG2	2.02	0.59
1:F:147:PHE:HD1	1:F:168:ARG:HH11	1.49	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:352:ILE:O	1:F:355:SER:OG	2.17	0.59
1:G:144:VAL:O	1:G:147:PHE:HB3	2.02	0.59
1:H:338:GLY:O	1:H:342:MET:HG2	2.02	0.59
1:I:144:VAL:O	1:I:147:PHE:HB3	2.02	0.59
1:I:261:ASP:N	1:I:261:ASP:OD1	2.32	0.59
1:J:140:ALA:O	1:J:144:VAL:HG12	2.02	0.59
1:J:338:GLY:O	1:J:342:MET:HG2	2.02	0.59
1:K:140:ALA:O	1:K:144:VAL:HG12	2.02	0.59
1:L:102:ILE:HD11	1:L:104:TYR:HE2	1.66	0.59
1:L:74:GLN:O	1:L:77:PHE:N	2.35	0.59
1:N:144:VAL:O	1:N:147:PHE:HB3	2.02	0.59
1:N:357:LEU:O	1:N:360:SER:OG	2.11	0.59
1:O:338:GLY:O	1:O:342:MET:HG2	2.02	0.59
1:P:352:ILE:O	1:P:355:SER:OG	2.17	0.59
1:D:144:VAL:O	1:D:147:PHE:HB3	2.02	0.59
1:C:168:ARG:NH2	1:D:153:ASP:O	2.28	0.59
1:D:252:ARG:NH1	1:D:254:ARG:HH12	1.93	0.59
1:E:136:ASP:N	1:E:136:ASP:OD1	2.31	0.59
1:E:140:ALA:O	1:E:144:VAL:HG12	2.02	0.59
1:H:140:ALA:O	1:H:144:VAL:HG12	2.02	0.59
1:H:59:TRP:CG	1:H:59:TRP:O	2.54	0.59
1:J:59:TRP:O	1:J:59:TRP:CG	2.54	0.59
1:K:338:GLY:O	1:K:342:MET:HG2	2.02	0.59
1:J:253:ARG:HH22	1:K:89:GLN:HA	1.67	0.59
1:M:144:VAL:O	1:M:147:PHE:HB3	2.02	0.59
1:O:147:PHE:HD1	1:O:168:ARG:HH11	1.49	0.59
1:O:74:GLN:O	1:O:77:PHE:N	2.35	0.59
1:A:338:GLY:O	1:A:342:MET:HG2	2.02	0.59
1:E:74:GLN:O	1:E:77:PHE:N	2.35	0.59
1:L:147:PHE:HD1	1:L:168:ARG:HH11	1.49	0.59
1:O:136:ASP:N	1:O:136:ASP:OD1	2.31	0.59
1:O:140:ALA:O	1:O:144:VAL:HG12	2.02	0.59
1:P:147:PHE:HD1	1:P:168:ARG:HH11	1.49	0.59
1:B:147:PHE:HD1	1:B:168:ARG:HH11	1.49	0.59
1:G:261:ASP:N	1:G:261:ASP:OD1	2.32	0.59
1:C:89:GLN:HG2	1:P:89:GLN:HG2	1.85	0.59
1:C:74:GLN:O	1:C:77:PHE:N	2.35	0.59
1:D:89:GLN:HG2	1:O:89:GLN:HG2	1.84	0.59
1:E:147:PHE:HD1	1:E:168:ARG:HH11	1.49	0.59
1:E:188:MET:HA	1:E:191:PHE:HD2	1.68	0.59
1:F:89:GLN:HG2	1:M:89:GLN:HG2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:352:ILE:O	1:G:355:SER:OG	2.17	0.59
1:I:352:ILE:O	1:I:355:SER:OG	2.17	0.59
1:K:188:MET:HA	1:K:191:PHE:HD2	1.68	0.59
1:L:140:ALA:O	1:L:144:VAL:HG12	2.02	0.59
1:M:74:GLN:O	1:M:77:PHE:N	2.35	0.59
1:B:140:ALA:O	1:B:144:VAL:HG12	2.02	0.59
1:B:357:LEU:O	1:B:360:SER:OG	2.11	0.59
1:O:188:MET:HA	1:O:191:PHE:HD2	1.68	0.59
1:P:188:MET:HA	1:P:191:PHE:HD2	1.68	0.59
1:A:188:MET:HA	1:A:191:PHE:HD2	1.68	0.59
1:C:357:LEU:O	1:C:360:SER:OG	2.11	0.59
1:F:188:MET:HA	1:F:191:PHE:HD2	1.68	0.59
1:P:338:GLY:O	1:P:342:MET:HG2	2.02	0.59
1:F:338:GLY:O	1:F:342:MET:HG2	2.02	0.58
1:L:357:LEU:O	1:L:360:SER:OG	2.11	0.58
1:D:140:ALA:O	1:D:144:VAL:HG12	2.02	0.58
1:D:357:LEU:O	1:D:360:SER:OG	2.11	0.58
1:H:188:MET:HA	1:H:191:PHE:HD2	1.68	0.58
1:J:188:MET:HA	1:J:191:PHE:HD2	1.68	0.58
1:N:140:ALA:O	1:N:144:VAL:HG12	2.02	0.58
1:M:168:ARG:NH2	1:N:153:ASP:O	2.29	0.58
1:D:74:GLN:O	1:D:77:PHE:N	2.35	0.58
1:E:352:ILE:O	1:E:355:SER:OG	2.17	0.58
1:G:168:ARG:NH2	1:H:153:ASP:O	2.29	0.58
1:L:188:MET:HA	1:L:191:PHE:HD2	1.68	0.58
1:B:188:MET:HA	1:B:191:PHE:HD2	1.68	0.58
1:C:188:MET:HA	1:C:191:PHE:HD2	1.68	0.58
1:E:89:GLN:HG2	1:N:89:GLN:HG2	1.85	0.58
1:M:102:ILE:HD11	1:M:104:TYR:HE2	1.66	0.58
1:O:352:ILE:O	1:O:355:SER:OG	2.17	0.58
1:M:188:MET:HA	1:M:191:PHE:HD2	1.68	0.58
1:A:15:ILE:O	1:A:19:PHE:CB	2.52	0.58
1:N:74:GLN:O	1:N:77:PHE:N	2.35	0.58
1:C:15:ILE:O	1:C:19:PHE:CB	2.52	0.58
1:G:136:ASP:N	1:G:136:ASP:OD1	2.31	0.58
1:H:136:ASP:N	1:H:136:ASP:OD1	2.31	0.58
1:H:15:ILE:O	1:H:19:PHE:CB	2.52	0.58
1:I:168:ARG:NH2	1:J:153:ASP:O	2.29	0.58
1:K:15:ILE:O	1:K:19:PHE:CB	2.52	0.58
1:C:102:ILE:HD11	1:C:104:TYR:HE2	1.66	0.58
1:J:136:ASP:N	1:J:136:ASP:OD1	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:15:ILE:O	1:J:19:PHE:CB	2.52	0.58
1:M:15:ILE:O	1:M:19:PHE:CB	2.52	0.58
1:B:15:ILE:O	1:B:19:PHE:CB	2.52	0.58
1:C:140:ALA:O	1:C:144:VAL:HG12	2.02	0.58
1:D:15:ILE:O	1:D:19:PHE:CB	2.52	0.58
1:F:15:ILE:O	1:F:19:PHE:CB	2.52	0.58
1:G:15:ILE:O	1:G:19:PHE:CB	2.52	0.58
1:I:15:ILE:O	1:I:19:PHE:CB	2.52	0.58
1:L:15:ILE:O	1:L:19:PHE:CB	2.52	0.58
1:N:15:ILE:O	1:N:19:PHE:CB	2.52	0.58
1:P:15:ILE:O	1:P:19:PHE:CB	2.52	0.58
1:I:136:ASP:OD1	1:I:136:ASP:N	2.31	0.58
1:L:60:THR:HG21	1:L:69:VAL:HG22	1.86	0.58
1:M:140:ALA:O	1:M:144:VAL:HG12	2.02	0.58
1:O:106:GLN:O	1:P:275:LYS:NZ	2.37	0.58
1:B:252:ARG:NH1	1:B:254:ARG:HH12	1.93	0.57
1:B:60:THR:HG21	1:B:69:VAL:HG22	1.86	0.57
1:E:106:GLN:O	1:F:275:LYS:NZ	2.37	0.57
1:I:355:SER:HB3	1:P:179:LEU:HD21	1.86	0.57
1:L:252:ARG:NH1	1:L:254:ARG:HH12	1.93	0.57
1:A:89:GLN:HG2	1:J:89:GLN:HG2	1.85	0.57
1:C:60:THR:HG21	1:C:69:VAL:HG22	1.86	0.57
1:I:188:MET:HA	1:I:191:PHE:HD2	1.68	0.57
1:M:60:THR:HG21	1:M:69:VAL:HG22	1.86	0.57
1:E:15:ILE:O	1:E:19:PHE:CB	2.52	0.57
1:G:188:MET:HA	1:G:191:PHE:HD2	1.68	0.57
1:H:352:ILE:O	1:H:355:SER:OG	2.17	0.57
1:I:15:ILE:O	1:I:19:PHE:HB3	2.05	0.57
1:J:352:ILE:O	1:J:355:SER:OG	2.17	0.57
1:G:92:PHE:CE1	1:K:257:SER:HB2	2.38	0.57
1:A:60:THR:HG21	1:A:69:VAL:HG22	1.86	0.57
1:D:60:THR:HG21	1:D:69:VAL:HG22	1.86	0.57
1:F:106:GLN:O	1:G:275:LYS:NZ	2.38	0.57
1:G:15:ILE:O	1:G:19:PHE:HB3	2.05	0.57
1:H:67:GLN:N	1:H:67:GLN:OE1	2.38	0.57
1:J:67:GLN:N	1:J:67:GLN:OE1	2.38	0.57
1:K:60:THR:HG21	1:K:69:VAL:HG22	1.86	0.57
1:H:89:GLN:HG2	1:K:89:GLN:HG2	1.85	0.57
1:N:60:THR:HG21	1:N:69:VAL:HG22	1.86	0.57
1:P:15:ILE:O	1:P:19:PHE:HB3	2.05	0.57
1:D:136:ASP:OD1	1:D:136:ASP:N	2.31	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:15:ILE:O	1:F:19:PHE:HB3	2.05	0.57
1:H:15:ILE:O	1:H:19:PHE:HB3	2.05	0.57
1:J:15:ILE:O	1:J:19:PHE:HB3	2.05	0.57
1:O:15:ILE:O	1:O:19:PHE:CB	2.52	0.57
1:A:104:TYR:OH	1:A:270:ASN:OD1	2.23	0.57
1:A:179:LEU:HD21	1:B:355:SER:HB3	1.86	0.57
1:B:104:TYR:OH	1:B:270:ASN:OD1	2.23	0.57
1:C:179:LEU:HD21	1:D:355:SER:HB3	1.87	0.57
1:D:188:MET:HA	1:D:191:PHE:HD2	1.68	0.57
1:E:67:GLN:N	1:E:67:GLN:OE1	2.38	0.57
1:K:104:TYR:OH	1:K:270:ASN:OD1	2.23	0.57
1:N:136:ASP:OD1	1:N:136:ASP:N	2.31	0.57
1:O:67:GLN:N	1:O:67:GLN:OE1	2.38	0.57
1:P:67:GLN:OE1	1:P:67:GLN:N	2.38	0.57
1:C:106:GLN:O	1:D:275:LYS:NZ	2.37	0.57
1:F:67:GLN:OE1	1:F:67:GLN:N	2.38	0.57
1:G:89:GLN:HG2	1:L:89:GLN:HG2	1.85	0.57
1:L:104:TYR:OH	1:L:270:ASN:OD1	2.23	0.57
1:O:60:THR:HG21	1:O:69:VAL:HG22	1.86	0.57
1:P:211:THR:O	1:P:220:THR:OG1	2.20	0.57
1:E:60:THR:HG21	1:E:69:VAL:HG22	1.86	0.57
1:G:106:GLN:O	1:H:275:LYS:NZ	2.38	0.57
1:N:106:GLN:O	1:O:275:LYS:NZ	2.38	0.57
1:N:188:MET:HA	1:N:191:PHE:HD2	1.68	0.57
1:O:15:ILE:O	1:O:19:PHE:HB3	2.05	0.57
1:A:106:GLN:O	1:B:275:LYS:NZ	2.37	0.57
1:C:15:ILE:O	1:C:19:PHE:HB3	2.05	0.57
1:D:15:ILE:O	1:D:19:PHE:HB3	2.05	0.57
1:E:179:LEU:HD21	1:F:355:SER:HB3	1.87	0.57
1:E:15:ILE:O	1:E:19:PHE:HB3	2.05	0.57
1:D:179:LEU:HD21	1:E:355:SER:HB3	1.87	0.57
1:F:104:TYR:OH	1:F:270:ASN:OD1	2.23	0.57
1:F:168:ARG:NH2	1:G:153:ASP:O	2.29	0.57
1:G:67:GLN:OE1	1:G:67:GLN:N	2.38	0.57
1:B:89:GLN:HG2	1:I:89:GLN:HG2	1.85	0.57
1:N:15:ILE:O	1:N:19:PHE:HB3	2.05	0.57
1:N:67:GLN:N	1:N:67:GLN:OE1	2.38	0.57
1:O:179:LEU:HD21	1:P:355:SER:HB3	1.86	0.57
1:P:104:TYR:OH	1:P:270:ASN:OD1	2.23	0.57
1:A:136:ASP:N	1:A:136:ASP:OD1	2.31	0.56
1:C:211:THR:O	1:C:220:THR:OG1	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:211:THR:O	1:G:220:THR:OG1	2.20	0.56
1:I:67:GLN:OE1	1:I:67:GLN:N	2.38	0.56
1:K:136:ASP:OD1	1:K:136:ASP:N	2.31	0.56
1:B:106:GLN:O	1:C:275:LYS:NZ	2.37	0.56
1:B:179:LEU:HD21	1:C:355:SER:HB3	1.87	0.56
1:B:130:ILE:HD11	1:B:188:MET:HE3	1.87	0.56
1:B:15:ILE:O	1:B:19:PHE:HB3	2.05	0.56
1:D:67:GLN:OE1	1:D:67:GLN:N	2.38	0.56
1:F:179:LEU:HD21	1:G:355:SER:HB3	1.87	0.56
1:G:145:ASP:HA	1:G:349:LEU:HD21	1.87	0.56
1:I:145:ASP:HA	1:I:349:LEU:HD21	1.87	0.56
1:K:15:ILE:O	1:K:19:PHE:HB3	2.05	0.56
1:L:130:ILE:HD11	1:L:188:MET:HE3	1.87	0.56
1:K:168:ARG:NH2	1:L:153:ASP:O	2.30	0.56
1:L:67:GLN:OE1	1:L:67:GLN:N	2.38	0.56
1:M:15:ILE:O	1:M:19:PHE:HB3	2.05	0.56
1:L:106:GLN:O	1:M:275:LYS:NZ	2.38	0.56
1:M:179:LEU:HD21	1:N:355:SER:HB3	1.87	0.56
1:O:104:TYR:OH	1:O:270:ASN:OD1	2.23	0.56
1:A:15:ILE:O	1:A:19:PHE:HB3	2.05	0.56
1:A:252:ARG:NH1	1:A:254:ARG:HH12	1.93	0.56
1:A:67:GLN:OE1	1:A:67:GLN:N	2.38	0.56
1:B:67:GLN:OE1	1:B:67:GLN:N	2.38	0.56
1:E:104:TYR:OH	1:E:270:ASN:OD1	2.23	0.56
1:F:211:THR:O	1:F:220:THR:OG1	2.20	0.56
1:H:60:THR:HG21	1:H:69:VAL:HG22	1.86	0.56
1:I:153:ASP:O	1:P:168:ARG:NH2	2.29	0.56
1:K:252:ARG:NH1	1:K:254:ARG:HH12	1.93	0.56
1:K:67:GLN:OE1	1:K:67:GLN:N	2.38	0.56
1:O:130:ILE:HD11	1:O:188:MET:HE3	1.87	0.56
1:P:130:ILE:HD11	1:P:188:MET:HE3	1.87	0.56
1:C:173:ILE:O	1:C:176:GLY:N	2.39	0.56
1:D:352:ILE:O	1:D:355:SER:OG	2.17	0.56
1:G:104:TYR:OH	1:G:270:ASN:OD1	2.23	0.56
1:I:211:THR:O	1:I:220:THR:OG1	2.20	0.56
1:J:104:TYR:OH	1:J:270:ASN:OD1	2.23	0.56
1:J:60:THR:HG21	1:J:69:VAL:HG22	1.86	0.56
1:L:15:ILE:O	1:L:19:PHE:HB3	2.05	0.56
1:M:173:ILE:O	1:M:176:GLY:N	2.39	0.56
1:M:211:THR:O	1:M:220:THR:OG1	2.20	0.56
1:H:104:TYR:OH	1:H:270:ASN:OD1	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:211:THR:O	1:H:220:THR:OG1	2.20	0.56
1:I:106:GLN:O	1:J:275:LYS:NZ	2.38	0.56
1:L:145:ASP:HA	1:L:349:LEU:HD21	1.87	0.56
1:M:130:ILE:HD11	1:M:188:MET:HE3	1.87	0.56
1:N:173:ILE:O	1:N:176:GLY:N	2.39	0.56
1:N:352:ILE:O	1:N:355:SER:OG	2.17	0.56
1:N:179:LEU:HD21	1:O:355:SER:HB3	1.88	0.56
1:A:89:GLN:HA	1:H:253:ARG:HH22	1.71	0.56
1:B:145:ASP:HA	1:B:349:LEU:HD21	1.87	0.56
1:C:130:ILE:HD11	1:C:188:MET:HE3	1.87	0.56
1:C:253:ARG:HH22	1:D:89:GLN:HA	1.71	0.56
1:D:130:ILE:HD11	1:D:188:MET:HE3	1.87	0.56
1:D:173:ILE:O	1:D:176:GLY:N	2.39	0.56
1:G:60:THR:HG21	1:G:69:VAL:HG22	1.86	0.56
1:H:130:ILE:HD11	1:H:188:MET:HE3	1.87	0.56
1:I:104:TYR:OH	1:I:270:ASN:OD1	2.23	0.56
1:J:106:GLN:O	1:K:275:LYS:NZ	2.38	0.56
1:K:179:LEU:HD21	1:L:355:SER:HB3	1.87	0.56
1:M:145:ASP:HA	1:M:349:LEU:HD21	1.87	0.56
1:M:253:ARG:HH22	1:N:89:GLN:HA	1.71	0.56
1:O:173:ILE:O	1:O:176:GLY:N	2.39	0.56
1:N:253:ARG:HH22	1:O:89:GLN:HA	1.71	0.56
1:P:154:LYS:HG2	1:P:156:ASP:H	1.71	0.56
1:C:104:TYR:OH	1:C:270:ASN:OD1	2.23	0.56
1:C:67:GLN:N	1:C:67:GLN:OE1	2.38	0.56
1:E:173:ILE:O	1:E:176:GLY:N	2.39	0.56
1:F:154:LYS:HG2	1:F:156:ASP:H	1.71	0.56
1:F:130:ILE:HD11	1:F:188:MET:HE3	1.87	0.56
1:F:60:THR:HG21	1:F:69:VAL:HG22	1.86	0.56
1:H:89:GLN:HB2	1:K:92:PHE:CZ	2.41	0.56
1:N:130:ILE:HD11	1:N:188:MET:HE3	1.87	0.56
1:P:60:THR:HG21	1:P:69:VAL:HG22	1.86	0.56
1:E:130:ILE:HD11	1:E:188:MET:HE3	1.87	0.56
1:D:253:ARG:HH22	1:E:89:GLN:HA	1.71	0.56
1:I:60:THR:HG21	1:I:69:VAL:HG22	1.86	0.56
1:J:211:THR:O	1:J:220:THR:OG1	2.20	0.56
1:I:253:ARG:HH22	1:J:89:GLN:HA	1.71	0.56
1:L:179:LEU:HD21	1:M:355:SER:HB3	1.88	0.56
1:M:67:GLN:OE1	1:M:67:GLN:N	2.38	0.56
1:N:104:TYR:OH	1:N:270:ASN:OD1	2.23	0.56
1:N:154:LYS:HG2	1:N:156:ASP:H	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:130:ILE:HD11	1:A:188:MET:HE3	1.87	0.56
1:B:173:ILE:O	1:B:176:GLY:N	2.39	0.56
1:A:253:ARG:HH22	1:B:89:GLN:HA	1.71	0.56
1:C:145:ASP:HA	1:C:349:LEU:HD21	1.87	0.56
1:B:253:ARG:HH22	1:C:89:GLN:HA	1.71	0.56
1:D:104:TYR:OH	1:D:270:ASN:OD1	2.23	0.56
1:D:154:LYS:HG2	1:D:156:ASP:H	1.71	0.56
1:E:211:THR:O	1:E:220:THR:OG1	2.20	0.56
1:F:173:ILE:O	1:F:176:GLY:N	2.39	0.56
1:F:253:ARG:HH22	1:G:89:GLN:HA	1.71	0.56
1:J:154:LYS:HG2	1:J:156:ASP:H	1.71	0.56
1:L:173:ILE:O	1:L:176:GLY:N	2.39	0.56
1:M:104:TYR:OH	1:M:270:ASN:OD1	2.23	0.56
1:L:253:ARG:HH22	1:M:89:GLN:HA	1.71	0.56
1:N:145:ASP:HA	1:N:349:LEU:HD21	1.87	0.56
1:P:173:ILE:O	1:P:176:GLY:N	2.39	0.56
1:C:154:LYS:HG2	1:C:156:ASP:H	1.71	0.56
1:D:145:ASP:HA	1:D:349:LEU:HD21	1.87	0.56
1:E:145:ASP:HA	1:E:349:LEU:HD21	1.87	0.56
1:E:253:ARG:HH22	1:F:89:GLN:HA	1.71	0.56
1:G:179:LEU:HD21	1:H:355:SER:HB3	1.87	0.56
1:M:154:LYS:HG2	1:M:156:ASP:H	1.71	0.56
1:O:145:ASP:HA	1:O:349:LEU:HD21	1.87	0.56
1:G:253:ARG:HH22	1:H:89:GLN:HA	1.71	0.56
1:H:154:LYS:HG2	1:H:156:ASP:H	1.71	0.56
1:K:130:ILE:HD11	1:K:188:MET:HE3	1.87	0.56
1:O:211:THR:O	1:O:220:THR:OG1	2.21	0.56
1:O:253:ARG:HH22	1:P:89:GLN:HA	1.71	0.56
1:K:219:TYR:CD1	1:K:220:THR:N	2.74	0.55
1:A:219:TYR:CD1	1:A:220:THR:N	2.74	0.55
1:A:145:ASP:HA	1:A:349:LEU:HD21	1.87	0.55
1:B:219:TYR:CD1	1:B:220:THR:N	2.75	0.55
1:C:219:TYR:CD1	1:C:220:THR:N	2.74	0.55
1:D:211:THR:O	1:D:220:THR:OG1	2.21	0.55
1:I:89:GLN:HA	1:P:253:ARG:HH22	1.72	0.55
1:L:219:TYR:CD1	1:L:220:THR:N	2.75	0.55
1:M:219:TYR:CD1	1:M:220:THR:N	2.74	0.55
1:N:211:THR:O	1:N:220:THR:OG1	2.20	0.55
1:A:154:LYS:HG2	1:A:156:ASP:H	1.71	0.55
1:B:136:ASP:OD1	1:B:136:ASP:N	2.31	0.55
1:C:136:ASP:OD1	1:C:136:ASP:N	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:186:ARG:HB3	1:G:336:GLU:HG2	1.89	0.55
1:K:154:LYS:HG2	1:K:156:ASP:H	1.71	0.55
1:K:145:ASP:HA	1:K:349:LEU:HD21	1.87	0.55
1:H:92:PHE:CZ	1:K:89:GLN:HB2	2.42	0.55
1:A:173:ILE:O	1:A:176:GLY:N	2.39	0.55
1:E:154:LYS:HG2	1:E:156:ASP:H	1.71	0.55
1:G:130:ILE:HD11	1:G:188:MET:HE3	1.87	0.55
1:H:173:ILE:O	1:H:176:GLY:N	2.39	0.55
1:I:186:ARG:HB3	1:I:336:GLU:HG2	1.89	0.55
1:J:173:ILE:O	1:J:176:GLY:N	2.39	0.55
1:K:173:ILE:O	1:K:176:GLY:N	2.39	0.55
1:L:136:ASP:OD1	1:L:136:ASP:N	2.31	0.55
1:M:136:ASP:OD1	1:M:136:ASP:N	2.31	0.55
1:A:211:THR:O	1:A:220:THR:OG1	2.20	0.55
1:F:145:ASP:HA	1:F:349:LEU:HD21	1.87	0.55
1:H:186:ARG:HB3	1:H:336:GLU:HG2	1.89	0.55
1:O:154:LYS:HG2	1:O:156:ASP:H	1.71	0.55
1:C:168:ARG:HB3	1:C:169:PRO:HD3	1.89	0.55
1:C:188:MET:HA	1:C:191:PHE:CD2	2.42	0.55
1:F:186:ARG:HB3	1:F:336:GLU:HG2	1.89	0.55
1:F:188:MET:HA	1:F:191:PHE:CD2	2.42	0.55
1:I:130:ILE:HD11	1:I:188:MET:HE3	1.87	0.55
1:M:168:ARG:HB3	1:M:169:PRO:HD3	1.89	0.55
1:N:219:TYR:CD1	1:N:220:THR:N	2.74	0.55
1:P:186:ARG:HB3	1:P:336:GLU:HG2	1.89	0.55
1:F:219:TYR:CD1	1:F:220:THR:N	2.75	0.55
1:G:154:LYS:HG2	1:G:156:ASP:H	1.71	0.55
1:G:173:ILE:O	1:G:176:GLY:N	2.39	0.55
1:I:188:MET:HA	1:I:191:PHE:CD2	2.42	0.55
1:J:186:ARG:HB3	1:J:336:GLU:HG2	1.89	0.55
1:K:211:THR:O	1:K:220:THR:OG1	2.20	0.55
1:K:186:ARG:HB3	1:K:336:GLU:HG2	1.89	0.55
1:L:154:LYS:HG2	1:L:156:ASP:H	1.71	0.55
1:L:168:ARG:HB3	1:L:169:PRO:HD3	1.89	0.55
1:L:186:ARG:HB3	1:L:336:GLU:HG2	1.89	0.55
1:P:188:MET:HA	1:P:191:PHE:CD2	2.42	0.55
1:P:219:TYR:CD1	1:P:220:THR:N	2.75	0.55
1:P:145:ASP:HA	1:P:349:LEU:HD21	1.87	0.55
1:B:186:ARG:HB3	1:B:336:GLU:HG2	1.89	0.55
1:D:219:TYR:CD1	1:D:220:THR:N	2.75	0.55
1:F:63:GLN:OE1	1:F:63:GLN:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:188:MET:HA	1:G:191:PHE:CD2	2.42	0.55
1:I:173:ILE:O	1:I:176:GLY:N	2.39	0.55
1:M:188:MET:HA	1:M:191:PHE:CD2	2.42	0.55
1:N:188:MET:HA	1:N:191:PHE:CD2	2.42	0.55
1:P:63:GLN:OE1	1:P:63:GLN:N	2.38	0.55
1:A:186:ARG:HB3	1:A:336:GLU:HG2	1.89	0.55
1:B:154:LYS:HG2	1:B:156:ASP:H	1.71	0.55
1:B:168:ARG:HB3	1:B:169:PRO:HD3	1.89	0.55
1:D:188:MET:HA	1:D:191:PHE:CD2	2.42	0.55
1:A:355:SER:HB3	1:H:179:LEU:HD21	1.88	0.55
1:H:219:TYR:CD1	1:H:220:THR:N	2.75	0.55
1:I:154:LYS:HG2	1:I:156:ASP:H	1.71	0.55
1:J:130:ILE:HD11	1:J:188:MET:HE3	1.87	0.55
1:J:145:ASP:HA	1:J:349:LEU:HD21	1.87	0.55
1:A:188:MET:HA	1:A:191:PHE:CD2	2.42	0.55
1:B:188:MET:HA	1:B:191:PHE:CD2	2.42	0.55
1:C:268:THR:O	1:C:271:ILE:HG22	2.07	0.55
1:D:168:ARG:HB3	1:D:169:PRO:HD3	1.89	0.55
1:F:268:THR:O	1:F:271:ILE:HG22	2.07	0.55
1:G:22:PRO:HG2	1:G:33:ARG:HH12	1.72	0.55
1:I:219:TYR:CD1	1:I:220:THR:N	2.75	0.55
1:I:22:PRO:HG2	1:I:33:ARG:HH12	1.72	0.55
1:K:188:MET:HA	1:K:191:PHE:CD2	2.42	0.55
1:K:352:ILE:O	1:K:355:SER:OG	2.17	0.55
1:L:188:MET:HA	1:L:191:PHE:CD2	2.42	0.55
1:M:268:THR:O	1:M:271:ILE:HG22	2.07	0.55
1:N:168:ARG:HB3	1:N:169:PRO:HD3	1.89	0.55
1:O:219:TYR:CD1	1:O:220:THR:N	2.74	0.55
1:O:63:GLN:OE1	1:O:63:GLN:N	2.38	0.55
1:A:352:ILE:O	1:A:355:SER:OG	2.17	0.54
1:C:22:PRO:HG2	1:C:33:ARG:HH12	1.72	0.54
1:E:168:ARG:HB3	1:E:169:PRO:HD3	1.89	0.54
1:E:63:GLN:OE1	1:E:63:GLN:N	2.38	0.54
1:G:219:TYR:CD1	1:G:220:THR:N	2.74	0.54
1:G:268:THR:O	1:G:271:ILE:HG22	2.07	0.54
1:H:268:THR:O	1:H:271:ILE:HG22	2.07	0.54
1:I:268:THR:O	1:I:271:ILE:HG22	2.07	0.54
1:J:219:TYR:CD1	1:J:220:THR:N	2.75	0.54
1:J:268:THR:O	1:J:271:ILE:HG22	2.07	0.54
1:L:22:PRO:HG2	1:L:33:ARG:HH12	1.72	0.54
1:M:22:PRO:HG2	1:M:33:ARG:HH12	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:186:ARG:HB3	1:M:336:GLU:HG2	1.89	0.54
1:O:168:ARG:HB3	1:O:169:PRO:HD3	1.89	0.54
1:P:268:THR:O	1:P:271:ILE:HG22	2.07	0.54
1:B:22:PRO:HG2	1:B:33:ARG:HH12	1.72	0.54
1:C:186:ARG:HB3	1:C:336:GLU:HG2	1.89	0.54
1:E:219:TYR:CD1	1:E:220:THR:N	2.75	0.54
1:H:145:ASP:HA	1:H:349:LEU:HD21	1.87	0.54
1:A:22:PRO:HG2	1:A:33:ARG:HH12	1.72	0.54
1:D:22:PRO:HG2	1:D:33:ARG:HH12	1.72	0.54
1:N:186:ARG:HB3	1:N:336:GLU:HG2	1.89	0.54
1:N:22:PRO:HG2	1:N:33:ARG:HH12	1.72	0.54
1:O:186:ARG:HB3	1:O:336:GLU:HG2	1.89	0.54
1:D:186:ARG:HB3	1:D:336:GLU:HG2	1.89	0.54
1:E:186:ARG:HB3	1:E:336:GLU:HG2	1.89	0.54
1:F:84:VAL:HG12	1:F:247:HIS:HD2	1.73	0.54
1:O:22:PRO:HG2	1:O:33:ARG:HH12	1.72	0.54
1:C:352:ILE:O	1:C:355:SER:OG	2.17	0.54
1:E:22:PRO:HG2	1:E:33:ARG:HH12	1.72	0.54
1:H:84:VAL:HG12	1:H:247:HIS:HD2	1.73	0.54
1:I:179:LEU:HD21	1:J:355:SER:HB3	1.88	0.54
1:J:84:VAL:HG12	1:J:247:HIS:HD2	1.73	0.54
1:K:168:ARG:HB3	1:K:169:PRO:HD3	1.89	0.54
1:K:268:THR:O	1:K:271:ILE:HG22	2.07	0.54
1:K:22:PRO:HG2	1:K:33:ARG:HH12	1.72	0.54
1:N:268:THR:O	1:N:271:ILE:HG22	2.07	0.54
1:A:168:ARG:HB3	1:A:169:PRO:HD3	1.89	0.54
1:D:268:THR:O	1:D:271:ILE:HG22	2.07	0.54
1:E:188:MET:HA	1:E:191:PHE:CD2	2.42	0.54
1:F:22:PRO:HG2	1:F:33:ARG:HH12	1.72	0.54
1:J:188:MET:HA	1:J:191:PHE:CD2	2.42	0.54
1:P:84:VAL:HG12	1:P:247:HIS:HD2	1.73	0.54
1:A:268:THR:O	1:A:271:ILE:HG22	2.07	0.54
1:D:193:THR:O	1:D:196:THR:HG22	2.08	0.54
1:G:222:TRP:HZ3	1:G:224:PRO:HG2	1.73	0.54
1:H:188:MET:HA	1:H:191:PHE:CD2	2.42	0.54
1:I:63:GLN:N	1:I:63:GLN:OE1	2.38	0.54
1:M:352:ILE:O	1:M:355:SER:OG	2.17	0.54
1:N:193:THR:O	1:N:196:THR:HG22	2.08	0.54
1:O:188:MET:HA	1:O:191:PHE:CD2	2.42	0.54
1:O:193:THR:O	1:O:196:THR:HG22	2.08	0.54
1:O:222:TRP:HZ3	1:O:224:PRO:HG2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:168:ARG:HB3	1:P:169:PRO:HD3	1.89	0.54
1:E:193:THR:O	1:E:196:THR:HG22	2.08	0.54
1:F:193:THR:O	1:F:196:THR:HG22	2.08	0.54
1:G:63:GLN:OE1	1:G:63:GLN:N	2.38	0.54
1:I:213:LEU:HD23	1:I:214:LEU:H	1.73	0.54
1:I:222:TRP:HZ3	1:I:224:PRO:HG2	1.73	0.54
1:J:22:PRO:HG2	1:J:33:ARG:HH12	1.72	0.54
1:P:22:PRO:HG2	1:P:33:ARG:HH12	1.72	0.54
1:E:222:TRP:HZ3	1:E:224:PRO:HG2	1.73	0.54
1:F:168:ARG:HB3	1:F:169:PRO:HD3	1.89	0.54
1:G:213:LEU:HD23	1:G:214:LEU:H	1.73	0.54
1:K:106:GLN:O	1:L:275:LYS:NZ	2.35	0.54
1:O:268:THR:O	1:O:271:ILE:HG22	2.07	0.54
1:P:193:THR:O	1:P:196:THR:HG22	2.08	0.54
1:H:22:PRO:HG2	1:H:33:ARG:HH12	1.72	0.53
1:I:193:THR:O	1:I:196:THR:HG22	2.08	0.53
1:A:27:ALA:O	1:A:29:ARG:N	2.41	0.53
1:B:213:LEU:HD23	1:B:214:LEU:H	1.73	0.53
1:G:193:THR:O	1:G:196:THR:HG22	2.08	0.53
1:H:168:ARG:HB3	1:H:169:PRO:HD3	1.89	0.53
1:N:84:VAL:HG12	1:N:247:HIS:HD2	1.73	0.53
1:D:222:TRP:HZ3	1:D:224:PRO:HG2	1.73	0.53
1:D:84:VAL:HG12	1:D:247:HIS:HD2	1.73	0.53
1:E:268:THR:O	1:E:271:ILE:HG22	2.07	0.53
1:F:27:ALA:O	1:F:29:ARG:N	2.41	0.53
1:K:27:ALA:O	1:K:29:ARG:N	2.41	0.53
1:K:27:ALA:C	1:K:29:ARG:H	2.12	0.53
1:L:268:THR:O	1:L:271:ILE:HG22	2.07	0.53
1:L:84:VAL:HG12	1:L:247:HIS:HD2	1.73	0.53
1:O:213:LEU:HD23	1:O:214:LEU:H	1.73	0.53
1:P:27:ALA:O	1:P:29:ARG:N	2.41	0.53
1:A:193:THR:O	1:A:196:THR:HG22	2.08	0.53
1:B:84:VAL:HG12	1:B:247:HIS:HD2	1.73	0.53
1:E:213:LEU:HD23	1:E:214:LEU:H	1.74	0.53
1:G:168:ARG:HB3	1:G:169:PRO:HD3	1.89	0.53
1:G:27:ALA:O	1:G:29:ARG:N	2.41	0.53
1:I:168:ARG:HB3	1:I:169:PRO:HD3	1.89	0.53
1:J:168:ARG:HB3	1:J:169:PRO:HD3	1.89	0.53
1:L:213:LEU:HD23	1:L:214:LEU:H	1.74	0.53
1:M:106:GLN:O	1:N:275:LYS:NZ	2.38	0.53
1:N:222:TRP:HZ3	1:N:224:PRO:HG2	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:86:LEU:HD21	1:N:247:HIS:NE2	2.24	0.53
1:A:27:ALA:C	1:A:29:ARG:H	2.12	0.53
1:A:97:ARG:HG3	1:A:98:THR:N	2.24	0.53
1:B:268:THR:O	1:B:271:ILE:HG22	2.07	0.53
1:B:97:ARG:HG3	1:B:98:THR:N	2.24	0.53
1:D:63:GLN:OE1	1:D:63:GLN:N	2.38	0.53
1:D:86:LEU:HD21	1:D:247:HIS:NE2	2.24	0.53
1:F:299:ILE:O	1:F:302:LEU:N	2.42	0.53
1:I:27:ALA:O	1:I:29:ARG:N	2.41	0.53
1:K:97:ARG:HG3	1:K:98:THR:N	2.24	0.53
1:L:193:THR:O	1:L:196:THR:HG22	2.08	0.53
1:L:97:ARG:HG3	1:L:98:THR:N	2.24	0.53
1:C:193:THR:O	1:C:196:THR:HG22	2.08	0.53
1:D:213:LEU:HD23	1:D:214:LEU:H	1.73	0.53
1:H:97:ARG:HG3	1:H:98:THR:N	2.24	0.53
1:J:27:ALA:O	1:J:29:ARG:N	2.41	0.53
1:J:97:ARG:HG3	1:J:98:THR:N	2.24	0.53
1:O:86:LEU:HD21	1:O:247:HIS:NE2	2.24	0.53
1:P:299:ILE:O	1:P:302:LEU:N	2.42	0.53
1:B:193:THR:O	1:B:196:THR:HG22	2.08	0.53
1:B:211:THR:O	1:B:220:THR:OG1	2.20	0.53
1:E:86:LEU:HD21	1:E:247:HIS:NE2	2.24	0.53
1:F:97:ARG:HG3	1:F:98:THR:N	2.24	0.53
1:H:63:GLN:N	1:H:63:GLN:OE1	2.38	0.53
1:K:193:THR:O	1:K:196:THR:HG22	2.08	0.53
1:M:213:LEU:HD23	1:M:214:LEU:H	1.73	0.53
1:N:63:GLN:N	1:N:63:GLN:OE1	2.38	0.53
1:O:299:ILE:O	1:O:302:LEU:N	2.42	0.53
1:P:97:ARG:HG3	1:P:98:THR:N	2.24	0.53
1:B:86:LEU:HD21	1:B:247:HIS:NE2	2.24	0.53
1:E:299:ILE:O	1:E:302:LEU:N	2.42	0.53
1:H:27:ALA:O	1:H:29:ARG:N	2.41	0.53
1:H:27:ALA:C	1:H:29:ARG:H	2.12	0.53
1:J:63:GLN:N	1:J:63:GLN:OE1	2.38	0.53
1:N:213:LEU:HD23	1:N:214:LEU:H	1.73	0.53
1:O:84:VAL:HG12	1:O:247:HIS:HD2	1.73	0.53
1:A:213:LEU:HD23	1:A:214:LEU:H	1.73	0.53
1:C:213:LEU:HD23	1:C:214:LEU:H	1.74	0.53
1:E:97:ARG:HG3	1:E:98:THR:N	2.24	0.53
1:F:27:ALA:C	1:F:29:ARG:H	2.12	0.53
1:B:92:PHE:CZ	1:I:89:GLN:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:213:LEU:HD23	1:J:214:LEU:H	1.73	0.53
1:J:27:ALA:C	1:J:29:ARG:H	2.12	0.53
1:K:146:ARG:HH21	1:L:152:ARG:HE	1.56	0.53
1:L:211:THR:O	1:L:220:THR:OG1	2.20	0.53
1:L:86:LEU:HD21	1:L:247:HIS:NE2	2.24	0.53
1:M:193:THR:O	1:M:196:THR:HG22	2.08	0.53
1:M:97:ARG:HG3	1:M:98:THR:N	2.24	0.53
1:P:213:LEU:HD23	1:P:214:LEU:H	1.73	0.53
1:P:27:ALA:C	1:P:29:ARG:H	2.12	0.53
1:C:97:ARG:HG3	1:C:98:THR:N	2.24	0.53
1:I:299:ILE:O	1:I:302:LEU:N	2.42	0.53
1:K:213:LEU:HD23	1:K:214:LEU:H	1.73	0.53
1:A:299:ILE:O	1:A:302:LEU:N	2.42	0.52
1:B:115:GLN:NE2	1:B:206:GLN:OE1	2.42	0.52
1:B:352:ILE:O	1:B:355:SER:OG	2.17	0.52
1:F:213:LEU:HD23	1:F:214:LEU:H	1.74	0.52
1:F:222:TRP:HZ3	1:F:224:PRO:HG2	1.73	0.52
1:G:115:GLN:NE2	1:G:206:GLN:OE1	2.42	0.52
1:G:97:ARG:HG3	1:G:98:THR:N	2.24	0.52
1:I:115:GLN:NE2	1:I:206:GLN:OE1	2.43	0.52
1:I:97:ARG:HG3	1:I:98:THR:N	2.24	0.52
1:M:299:ILE:O	1:M:302:LEU:N	2.42	0.52
1:N:299:ILE:O	1:N:302:LEU:N	2.42	0.52
1:O:97:ARG:HG3	1:O:98:THR:N	2.24	0.52
1:B:89:GLN:HB2	1:I:92:PHE:CZ	2.44	0.52
1:C:115:GLN:NE2	1:C:206:GLN:OE1	2.43	0.52
1:C:299:ILE:O	1:C:302:LEU:N	2.42	0.52
1:D:110:TYR:HD2	1:E:275:LYS:HZ3	1.56	0.52
1:G:299:ILE:O	1:G:302:LEU:N	2.42	0.52
1:H:213:LEU:HD23	1:H:214:LEU:H	1.73	0.52
1:K:299:ILE:O	1:K:302:LEU:N	2.42	0.52
1:L:115:GLN:NE2	1:L:206:GLN:OE1	2.43	0.52
1:L:299:ILE:O	1:L:302:LEU:N	2.42	0.52
1:M:86:LEU:HD21	1:M:247:HIS:NE2	2.24	0.52
1:B:299:ILE:O	1:B:302:LEU:N	2.42	0.52
1:C:86:LEU:HD21	1:C:247:HIS:NE2	2.24	0.52
1:C:27:ALA:C	1:C:29:ARG:H	2.12	0.52
1:D:299:ILE:O	1:D:302:LEU:N	2.42	0.52
1:D:168:ARG:NH2	1:E:153:ASP:O	2.29	0.52
1:J:179:LEU:HD21	1:K:355:SER:HB3	1.90	0.52
1:L:27:ALA:C	1:L:29:ARG:H	2.12	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:115:GLN:NE2	1:M:206:GLN:OE1	2.43	0.52
1:A:115:GLN:NE2	1:A:206:GLN:OE1	2.42	0.52
1:B:27:ALA:O	1:B:29:ARG:N	2.42	0.52
1:F:115:GLN:NE2	1:F:206:GLN:OE1	2.42	0.52
1:H:299:ILE:O	1:H:302:LEU:N	2.42	0.52
1:I:27:ALA:C	1:I:29:ARG:H	2.12	0.52
1:K:115:GLN:NE2	1:K:206:GLN:OE1	2.43	0.52
1:L:27:ALA:O	1:L:29:ARG:N	2.42	0.52
1:L:352:ILE:O	1:L:355:SER:OG	2.17	0.52
1:M:27:ALA:C	1:M:29:ARG:H	2.12	0.52
1:P:115:GLN:NE2	1:P:206:GLN:OE1	2.42	0.52
1:P:222:TRP:HZ3	1:P:224:PRO:HG2	1.73	0.52
1:C:92:PHE:CZ	1:P:89:GLN:HB2	2.45	0.52
1:H:193:THR:O	1:H:196:THR:HG22	2.08	0.52
1:I:84:VAL:HG12	1:I:247:HIS:HD2	1.73	0.52
1:N:27:ALA:C	1:N:29:ARG:H	2.12	0.52
1:B:242:PHE:CE1	1:B:274:GLU:HB2	2.45	0.52
1:B:27:ALA:C	1:B:29:ARG:H	2.12	0.52
1:D:27:ALA:C	1:D:29:ARG:H	2.12	0.52
1:E:115:GLN:NE2	1:E:206:GLN:OE1	2.42	0.52
1:G:27:ALA:C	1:G:29:ARG:H	2.12	0.52
1:G:89:GLN:HB2	1:L:92:PHE:CZ	2.45	0.52
1:H:242:PHE:CE1	1:H:274:GLU:HB2	2.45	0.52
1:J:222:TRP:HZ3	1:J:224:PRO:HG2	1.73	0.52
1:J:242:PHE:CE1	1:J:274:GLU:HB2	2.45	0.52
1:J:299:ILE:O	1:J:302:LEU:N	2.42	0.52
1:L:242:PHE:CE1	1:L:274:GLU:HB2	2.45	0.52
1:O:115:GLN:NE2	1:O:206:GLN:OE1	2.43	0.52
1:O:27:ALA:O	1:O:29:ARG:N	2.42	0.52
1:I:275:LYS:NZ	1:P:106:GLN:O	2.37	0.52
1:A:84:VAL:HG12	1:A:247:HIS:HD2	1.73	0.52
1:B:168:ARG:NH2	1:C:153:ASP:O	2.30	0.52
1:D:97:ARG:HG3	1:D:98:THR:N	2.24	0.52
1:E:27:ALA:O	1:E:29:ARG:N	2.42	0.52
1:G:84:VAL:HG12	1:G:247:HIS:HD2	1.73	0.52
1:H:115:GLN:NE2	1:H:206:GLN:OE1	2.42	0.52
1:J:193:THR:O	1:J:196:THR:HG22	2.08	0.52
1:M:84:VAL:HG12	1:M:247:HIS:HD2	1.73	0.52
1:A:86:LEU:HD21	1:A:247:HIS:NE2	2.24	0.52
1:C:84:VAL:HG12	1:C:247:HIS:HD2	1.73	0.52
1:D:115:GLN:NE2	1:D:206:GLN:OE1	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:89:GLN:HB2	1:M:92:PHE:CZ	2.45	0.52
1:G:242:PHE:CE1	1:G:274:GLU:HB2	2.45	0.52
1:H:222:TRP:HZ3	1:H:224:PRO:HG2	1.73	0.52
1:J:115:GLN:NE2	1:J:206:GLN:OE1	2.42	0.52
1:J:110:TYR:CE2	1:K:275:LYS:HG3	2.45	0.52
1:M:242:PHE:CE1	1:M:274:GLU:HB2	2.45	0.52
1:N:115:GLN:NE2	1:N:206:GLN:OE1	2.42	0.52
1:N:97:ARG:HG3	1:N:98:THR:N	2.24	0.52
1:D:92:PHE:CZ	1:O:89:GLN:HB2	2.45	0.52
1:G:86:LEU:HD21	1:G:247:HIS:NE2	2.24	0.52
1:G:92:PHE:CZ	1:L:89:GLN:HB2	2.45	0.52
1:A:275:LYS:NZ	1:H:106:GLN:O	2.38	0.52
1:I:242:PHE:CE1	1:I:274:GLU:HB2	2.45	0.52
1:I:86:LEU:HD21	1:I:247:HIS:NE2	2.24	0.52
1:J:86:LEU:HD21	1:J:247:HIS:NE2	2.24	0.52
1:A:89:GLN:HB2	1:J:92:PHE:CZ	2.45	0.52
1:K:84:VAL:HG12	1:K:247:HIS:HD2	1.73	0.52
1:K:86:LEU:HD21	1:K:247:HIS:NE2	2.24	0.52
1:H:92:PHE:HZ	1:K:89:GLN:HB2	1.75	0.52
1:L:222:TRP:HZ3	1:L:224:PRO:HG2	1.73	0.52
1:C:89:GLN:HB2	1:P:92:PHE:CZ	2.45	0.52
1:A:63:GLN:N	1:A:63:GLN:OE1	2.38	0.52
1:C:242:PHE:CE1	1:C:274:GLU:HB2	2.45	0.52
1:F:86:LEU:HD21	1:F:247:HIS:NE2	2.24	0.52
1:H:86:LEU:HD21	1:H:247:HIS:NE2	2.24	0.52
1:L:168:ARG:NH2	1:M:153:ASP:O	2.30	0.52
1:N:168:ARG:NH2	1:O:153:ASP:O	2.30	0.52
1:P:86:LEU:HD21	1:P:247:HIS:NE2	2.24	0.52
1:A:222:TRP:HZ3	1:A:224:PRO:HG2	1.73	0.51
1:A:234:ASN:O	1:A:238:THR:HG23	2.10	0.51
1:E:27:ALA:C	1:E:29:ARG:H	2.12	0.51
1:J:102:ILE:HG23	1:J:102:ILE:O	2.10	0.51
1:K:234:ASN:O	1:K:238:THR:HG23	2.10	0.51
1:E:89:GLN:HB2	1:N:92:PHE:CZ	2.45	0.51
1:B:222:TRP:HZ3	1:B:224:PRO:HG2	1.73	0.51
1:D:102:ILE:O	1:D:102:ILE:HG23	2.10	0.51
1:D:89:GLN:HB2	1:O:92:PHE:CZ	2.45	0.51
1:H:102:ILE:O	1:H:102:ILE:HG23	2.10	0.51
1:K:222:TRP:HZ3	1:K:224:PRO:HG2	1.73	0.51
1:K:63:GLN:OE1	1:K:63:GLN:N	2.38	0.51
1:F:92:PHE:CZ	1:M:89:GLN:HB2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:102:ILE:HG23	1:N:102:ILE:O	2.10	0.51
1:O:146:ARG:HH21	1:P:152:ARG:HE	1.58	0.51
1:A:102:ILE:HG23	1:A:102:ILE:O	2.10	0.51
1:A:146:ARG:HH21	1:B:152:ARG:HE	1.58	0.51
1:C:63:GLN:OE1	1:C:63:GLN:N	2.38	0.51
1:K:102:ILE:HG23	1:K:102:ILE:O	2.10	0.51
1:M:63:GLN:OE1	1:M:63:GLN:N	2.38	0.51
1:O:27:ALA:C	1:O:29:ARG:H	2.12	0.51
1:E:92:PHE:CZ	1:N:89:GLN:HB2	2.45	0.51
1:A:92:PHE:CZ	1:J:89:GLN:HB2	2.45	0.51
1:C:27:ALA:O	1:C:29:ARG:N	2.41	0.51
1:D:234:ASN:O	1:D:238:THR:HG23	2.10	0.51
1:E:102:ILE:O	1:E:102:ILE:HG23	2.10	0.51
1:G:234:ASN:O	1:G:238:THR:HG23	2.10	0.51
1:I:234:ASN:O	1:I:238:THR:HG23	2.10	0.51
1:N:234:ASN:O	1:N:238:THR:HG23	2.10	0.51
1:E:146:ARG:HH21	1:F:152:ARG:HE	1.58	0.51
1:M:27:ALA:O	1:M:29:ARG:N	2.41	0.51
1:O:102:ILE:O	1:O:102:ILE:HG23	2.10	0.51
1:E:234:ASN:O	1:E:238:THR:HG23	2.10	0.51
1:F:242:PHE:CE1	1:F:274:GLU:HB2	2.45	0.51
1:H:234:ASN:O	1:H:238:THR:HG23	2.10	0.51
1:N:242:PHE:CE1	1:N:274:GLU:HB2	2.45	0.51
1:O:234:ASN:O	1:O:238:THR:HG23	2.10	0.51
1:C:89:GLN:HG3	1:C:90:LEU:N	2.22	0.51
1:D:242:PHE:CE1	1:D:274:GLU:HB2	2.45	0.51
1:E:84:VAL:HG12	1:E:247:HIS:HD2	1.73	0.51
1:I:102:ILE:O	1:I:102:ILE:HG23	2.10	0.51
1:J:234:ASN:O	1:J:238:THR:HG23	2.10	0.51
1:K:197:VAL:HA	1:K:295:CYS:SG	2.51	0.51
1:M:222:TRP:HZ3	1:M:224:PRO:HG2	1.73	0.51
1:C:197:VAL:HA	1:C:295:CYS:SG	2.51	0.51
1:D:227:LEU:HD21	1:D:278:ILE:HG21	1.93	0.51
1:E:242:PHE:CE1	1:E:274:GLU:HB2	2.45	0.51
1:K:242:PHE:CE1	1:K:274:GLU:HB2	2.45	0.51
1:L:63:GLN:N	1:L:63:GLN:OE1	2.38	0.51
1:M:89:GLN:HG3	1:M:90:LEU:N	2.22	0.51
1:N:27:ALA:O	1:N:29:ARG:N	2.42	0.51
1:N:146:ARG:HH21	1:O:152:ARG:HE	1.58	0.51
1:P:242:PHE:CE1	1:P:274:GLU:HB2	2.45	0.51
1:A:153:ASP:O	1:H:168:ARG:NH2	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:242:PHE:CE1	1:A:274:GLU:HB2	2.45	0.51
1:B:63:GLN:N	1:B:63:GLN:OE1	2.38	0.51
1:C:222:TRP:HZ3	1:C:224:PRO:HG2	1.73	0.51
1:D:117:PHE:HD2	1:D:118:LEU:HD12	1.76	0.51
1:G:102:ILE:HG23	1:G:102:ILE:O	2.10	0.51
1:M:197:VAL:HA	1:M:295:CYS:SG	2.51	0.51
1:N:117:PHE:HD2	1:N:118:LEU:HD12	1.76	0.51
1:N:269:LEU:O	1:N:272:TYR:N	2.44	0.51
1:N:227:LEU:HD21	1:N:278:ILE:HG21	1.93	0.51
1:O:242:PHE:CE1	1:O:274:GLU:HB2	2.45	0.51
1:O:197:VAL:HA	1:O:295:CYS:SG	2.51	0.51
1:A:197:VAL:HA	1:A:295:CYS:SG	2.51	0.50
1:C:146:ARG:HH21	1:D:152:ARG:HE	1.58	0.50
1:D:269:LEU:O	1:D:272:TYR:N	2.45	0.50
1:D:27:ALA:O	1:D:29:ARG:N	2.41	0.50
1:E:197:VAL:HA	1:E:295:CYS:SG	2.51	0.50
1:F:234:ASN:O	1:F:238:THR:HG23	2.10	0.50
1:H:39:LEU:HD23	1:H:115:GLN:CB	2.42	0.50
1:I:39:LEU:HD23	1:I:115:GLN:CB	2.42	0.50
1:J:197:VAL:HA	1:J:295:CYS:SG	2.51	0.50
1:M:117:PHE:HD2	1:M:118:LEU:HD12	1.76	0.50
1:M:234:ASN:O	1:M:238:THR:HG23	2.10	0.50
1:O:269:LEU:O	1:O:272:TYR:N	2.45	0.50
1:P:234:ASN:O	1:P:238:THR:HG23	2.10	0.50
1:C:234:ASN:O	1:C:238:THR:HG23	2.10	0.50
1:E:269:LEU:O	1:E:272:TYR:N	2.45	0.50
1:E:89:GLN:HG3	1:E:90:LEU:N	2.22	0.50
1:G:39:LEU:HD23	1:G:115:GLN:CB	2.42	0.50
1:I:197:VAL:HA	1:I:295:CYS:SG	2.51	0.50
1:J:39:LEU:HD23	1:J:115:GLN:CB	2.42	0.50
1:O:89:GLN:HG3	1:O:90:LEU:N	2.22	0.50
1:A:269:LEU:O	1:A:272:TYR:N	2.45	0.50
1:C:117:PHE:HD2	1:C:118:LEU:HD12	1.76	0.50
1:F:146:ARG:HH21	1:G:152:ARG:HE	1.58	0.50
1:H:197:VAL:HA	1:H:295:CYS:SG	2.51	0.50
1:J:269:LEU:O	1:J:272:TYR:N	2.45	0.50
1:K:269:LEU:O	1:K:272:TYR:N	2.45	0.50
1:C:102:ILE:HG23	1:C:102:ILE:O	2.10	0.50
1:C:269:LEU:O	1:C:272:TYR:N	2.44	0.50
1:E:117:PHE:HD2	1:E:118:LEU:HD12	1.76	0.50
1:D:146:ARG:HH21	1:E:152:ARG:HE	1.58	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:236:TRP:CG	1:F:237:GLN:N	2.80	0.50
1:G:236:TRP:CG	1:G:237:GLN:N	2.80	0.50
1:A:152:ARG:HE	1:H:146:ARG:HH21	1.58	0.50
1:H:269:LEU:O	1:H:272:TYR:N	2.45	0.50
1:I:236:TRP:CG	1:I:237:GLN:N	2.80	0.50
1:L:197:VAL:HA	1:L:295:CYS:SG	2.51	0.50
1:M:102:ILE:HG23	1:M:102:ILE:O	2.10	0.50
1:O:227:LEU:HD21	1:O:278:ILE:HG21	1.93	0.50
1:P:236:TRP:CG	1:P:237:GLN:N	2.80	0.50
1:B:234:ASN:O	1:B:238:THR:HG23	2.10	0.50
1:C:87:ASP:OD1	1:C:87:ASP:N	2.45	0.50
1:E:227:LEU:HD21	1:E:278:ILE:HG21	1.93	0.50
1:G:197:VAL:HA	1:G:295:CYS:SG	2.51	0.50
1:I:227:LEU:HD21	1:I:278:ILE:HG21	1.93	0.50
1:K:117:PHE:HD2	1:K:118:LEU:HD12	1.76	0.50
1:L:102:ILE:HG23	1:L:102:ILE:O	2.10	0.50
1:L:146:ARG:HH21	1:M:152:ARG:HE	1.58	0.50
1:M:269:LEU:O	1:M:272:TYR:N	2.45	0.50
1:M:227:LEU:HD21	1:M:278:ILE:HG21	1.93	0.50
1:M:87:ASP:OD1	1:M:87:ASP:N	2.45	0.50
1:I:152:ARG:HE	1:P:146:ARG:HH21	1.59	0.50
1:A:117:PHE:HD2	1:A:118:LEU:HD12	1.76	0.50
1:B:102:ILE:O	1:B:102:ILE:HG23	2.10	0.50
1:B:197:VAL:HA	1:B:295:CYS:SG	2.51	0.50
1:C:227:LEU:HD21	1:C:278:ILE:HG21	1.93	0.50
1:E:210:LEU:O	1:E:213:LEU:N	2.44	0.50
1:G:227:LEU:HD21	1:G:278:ILE:HG21	1.93	0.50
1:J:168:ARG:NH2	1:K:153:ASP:O	2.32	0.50
1:L:117:PHE:HD2	1:L:118:LEU:HD12	1.76	0.50
1:L:87:ASP:OD1	1:L:87:ASP:N	2.45	0.50
1:N:210:LEU:O	1:N:213:LEU:N	2.44	0.50
1:O:117:PHE:HD2	1:O:118:LEU:HD12	1.76	0.50
1:P:227:LEU:HD21	1:P:278:ILE:HG21	1.93	0.50
1:P:39:LEU:HD23	1:P:115:GLN:CB	2.42	0.50
1:A:227:LEU:HD21	1:A:278:ILE:HG21	1.93	0.50
1:B:87:ASP:N	1:B:87:ASP:OD1	2.45	0.50
1:B:146:ARG:HH21	1:C:152:ARG:HE	1.59	0.50
1:F:39:LEU:HD23	1:F:115:GLN:CB	2.42	0.50
1:F:227:LEU:HD21	1:F:278:ILE:HG21	1.93	0.50
1:G:269:LEU:O	1:G:272:TYR:N	2.45	0.50
1:H:236:TRP:CG	1:H:237:GLN:N	2.80	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:227:LEU:HD21	1:H:278:ILE:HG21	1.93	0.50
1:J:236:TRP:CG	1:J:237:GLN:N	2.80	0.50
1:J:227:LEU:HD21	1:J:278:ILE:HG21	1.93	0.50
1:K:318:THR:HG23	1:K:319:ALA:N	2.26	0.50
1:L:234:ASN:O	1:L:238:THR:HG23	2.10	0.50
1:O:210:LEU:O	1:O:213:LEU:N	2.44	0.50
1:B:117:PHE:HD2	1:B:118:LEU:HD12	1.76	0.50
1:C:318:THR:HG23	1:C:319:ALA:N	2.26	0.50
1:D:210:LEU:O	1:D:213:LEU:N	2.44	0.50
1:D:318:THR:HG23	1:D:319:ALA:N	2.27	0.50
1:F:102:ILE:HG23	1:F:102:ILE:O	2.10	0.50
1:I:269:LEU:O	1:I:272:TYR:N	2.45	0.50
1:K:227:LEU:HD21	1:K:278:ILE:HG21	1.93	0.50
1:L:269:LEU:O	1:L:272:TYR:N	2.45	0.50
1:L:227:LEU:HD21	1:L:278:ILE:HG21	1.93	0.50
1:N:197:VAL:HA	1:N:295:CYS:SG	2.51	0.50
1:O:87:ASP:N	1:O:87:ASP:OD1	2.45	0.50
1:B:269:LEU:O	1:B:272:TYR:N	2.45	0.50
1:E:236:TRP:CG	1:E:237:GLN:N	2.80	0.50
1:E:87:ASP:N	1:E:87:ASP:OD1	2.45	0.50
1:F:269:LEU:O	1:F:272:TYR:N	2.45	0.50
1:M:146:ARG:HH21	1:N:152:ARG:HE	1.58	0.50
1:N:318:THR:HG23	1:N:319:ALA:N	2.26	0.50
1:O:236:TRP:CG	1:O:237:GLN:N	2.80	0.50
1:P:269:LEU:O	1:P:272:TYR:N	2.45	0.50
1:P:197:VAL:HA	1:P:295:CYS:SG	2.51	0.50
1:A:236:TRP:CG	1:A:237:GLN:N	2.80	0.49
1:B:236:TRP:CG	1:B:237:GLN:N	2.80	0.49
1:B:227:LEU:HD21	1:B:278:ILE:HG21	1.93	0.49
1:B:318:THR:HG23	1:B:319:ALA:N	2.26	0.49
1:D:197:VAL:HA	1:D:295:CYS:SG	2.51	0.49
1:I:146:ARG:HH21	1:J:152:ARG:HE	1.58	0.49
1:K:236:TRP:CG	1:K:237:GLN:N	2.80	0.49
1:M:318:THR:HG23	1:M:319:ALA:N	2.27	0.49
1:M:39:LEU:HD23	1:M:115:GLN:CB	2.42	0.49
1:P:102:ILE:O	1:P:102:ILE:HG23	2.10	0.49
1:A:242:PHE:HE1	1:A:270:ASN:O	1.96	0.49
1:A:89:GLN:HG3	1:A:90:LEU:N	2.22	0.49
1:C:39:LEU:HD23	1:C:115:GLN:CB	2.42	0.49
1:E:205:ILE:O	1:E:209:ILE:HG12	2.12	0.49
1:F:205:ILE:O	1:F:209:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:242:PHE:HE1	1:J:270:ASN:O	1.95	0.49
1:K:253:ARG:HH22	1:L:89:GLN:HA	1.78	0.49
1:K:242:PHE:HE1	1:K:270:ASN:O	1.96	0.49
1:L:318:THR:HG23	1:L:319:ALA:N	2.27	0.49
1:N:236:TRP:CG	1:N:237:GLN:N	2.80	0.49
1:N:39:LEU:HD23	1:N:115:GLN:CB	2.42	0.49
1:O:205:ILE:O	1:O:209:ILE:HG12	2.12	0.49
1:O:39:LEU:HD23	1:O:115:GLN:CB	2.42	0.49
1:P:205:ILE:O	1:P:209:ILE:HG12	2.13	0.49
1:A:205:ILE:O	1:A:209:ILE:HG12	2.12	0.49
1:D:236:TRP:CG	1:D:237:GLN:N	2.80	0.49
1:D:39:LEU:HD23	1:D:115:GLN:CB	2.42	0.49
1:E:39:LEU:HD23	1:E:115:GLN:CB	2.42	0.49
1:E:318:THR:HG23	1:E:319:ALA:N	2.27	0.49
1:F:197:VAL:HA	1:F:295:CYS:SG	2.51	0.49
1:G:146:ARG:HH21	1:H:152:ARG:HE	1.58	0.49
1:H:242:PHE:HE1	1:H:270:ASN:O	1.96	0.49
1:L:236:TRP:CG	1:L:237:GLN:N	2.80	0.49
1:E:242:PHE:CG	1:E:242:PHE:O	2.66	0.49
1:F:87:ASP:OD1	1:F:87:ASP:N	2.45	0.49
1:K:205:ILE:O	1:K:209:ILE:HG12	2.13	0.49
1:K:89:GLN:HG3	1:K:90:LEU:N	2.22	0.49
1:M:236:TRP:CG	1:M:237:GLN:N	2.80	0.49
1:N:205:ILE:O	1:N:209:ILE:HG12	2.12	0.49
1:O:242:PHE:CG	1:O:242:PHE:O	2.66	0.49
1:D:205:ILE:O	1:D:209:ILE:HG12	2.12	0.49
1:F:242:PHE:CG	1:F:242:PHE:O	2.66	0.49
1:K:87:ASP:OD1	1:K:87:ASP:N	2.45	0.49
1:L:39:LEU:HD23	1:L:115:GLN:CB	2.41	0.49
1:L:205:ILE:O	1:L:209:ILE:HG12	2.12	0.49
1:N:242:PHE:HE1	1:N:270:ASN:O	1.96	0.49
1:O:318:THR:HG23	1:O:319:ALA:N	2.27	0.49
1:P:242:PHE:O	1:P:242:PHE:CG	2.66	0.49
1:P:87:ASP:OD1	1:P:87:ASP:N	2.45	0.49
1:A:87:ASP:N	1:A:87:ASP:OD1	2.45	0.49
1:B:205:ILE:O	1:B:209:ILE:HG12	2.12	0.49
1:B:242:PHE:HE1	1:B:270:ASN:O	1.96	0.49
1:C:236:TRP:CG	1:C:237:GLN:N	2.80	0.49
1:D:242:PHE:HE1	1:D:270:ASN:O	1.96	0.49
1:F:236:TRP:CD1	1:F:243:PRO:HA	2.47	0.49
1:G:205:ILE:O	1:G:209:ILE:HG12	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:205:ILE:O	1:I:209:ILE:HG12	2.12	0.49
1:J:205:ILE:O	1:J:209:ILE:HG12	2.13	0.49
1:D:242:PHE:CG	1:D:242:PHE:O	2.66	0.49
1:F:117:PHE:HD2	1:F:118:LEU:HD12	1.76	0.49
1:G:87:ASP:N	1:G:87:ASP:OD1	2.45	0.49
1:H:205:ILE:O	1:H:209:ILE:HG12	2.12	0.49
1:I:87:ASP:OD1	1:I:87:ASP:N	2.45	0.49
1:L:242:PHE:HE1	1:L:270:ASN:O	1.96	0.49
1:B:39:LEU:HD23	1:B:115:GLN:CB	2.42	0.49
1:B:110:TYR:CE2	1:C:275:LYS:HG3	2.48	0.49
1:G:242:PHE:HE1	1:G:270:ASN:O	1.96	0.49
1:H:87:ASP:N	1:H:87:ASP:OD1	2.45	0.49
1:I:242:PHE:HE1	1:I:270:ASN:O	1.96	0.49
1:J:87:ASP:N	1:J:87:ASP:OD1	2.45	0.49
1:M:242:PHE:HE1	1:M:270:ASN:O	1.96	0.49
1:N:141:VAL:O	1:N:145:ASP:CB	2.61	0.49
1:N:242:PHE:CG	1:N:242:PHE:O	2.66	0.49
1:N:87:ASP:OD1	1:N:87:ASP:N	2.45	0.49
1:P:117:PHE:HD2	1:P:118:LEU:HD12	1.76	0.49
1:P:236:TRP:CD1	1:P:243:PRO:HA	2.47	0.49
1:A:236:TRP:CD1	1:A:243:PRO:HA	2.47	0.49
1:C:242:PHE:HE1	1:C:270:ASN:O	1.96	0.49
1:D:141:VAL:O	1:D:145:ASP:CB	2.61	0.49
1:D:316:LEU:HD13	1:D:362:ARG:HD3	1.95	0.49
1:D:87:ASP:OD1	1:D:87:ASP:N	2.45	0.49
1:E:123:ARG:O	1:E:126:TRP:N	2.46	0.49
1:G:123:ARG:O	1:G:126:TRP:N	2.46	0.49
1:N:316:LEU:HD13	1:N:362:ARG:HD3	1.95	0.49
1:O:123:ARG:O	1:O:126:TRP:N	2.46	0.49
1:C:316:LEU:HD13	1:C:362:ARG:HD3	1.95	0.49
1:E:141:VAL:O	1:E:145:ASP:CB	2.61	0.49
1:F:89:GLN:HG3	1:F:90:LEU:N	2.22	0.49
1:G:242:PHE:O	1:G:242:PHE:CG	2.66	0.49
1:G:186:ARG:O	1:G:336:GLU:HB3	2.13	0.49
1:I:117:PHE:HD2	1:I:118:LEU:HD12	1.76	0.49
1:I:123:ARG:O	1:I:126:TRP:N	2.46	0.49
1:I:242:PHE:O	1:I:242:PHE:CG	2.66	0.49
1:K:236:TRP:CD1	1:K:243:PRO:HA	2.47	0.49
1:O:242:PHE:HE1	1:O:270:ASN:O	1.96	0.49
1:P:89:GLN:HG3	1:P:90:LEU:N	2.22	0.49
1:A:275:LYS:HG3	1:H:110:TYR:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:92:PHE:HZ	1:I:89:GLN:HB2	1.79	0.48
1:E:242:PHE:HE1	1:E:270:ASN:O	1.96	0.48
1:E:316:LEU:HD13	1:E:362:ARG:HD3	1.95	0.48
1:F:242:PHE:HE1	1:F:270:ASN:O	1.96	0.48
1:G:117:PHE:HD2	1:G:118:LEU:HD12	1.76	0.48
1:H:186:ARG:O	1:H:336:GLU:HB3	2.13	0.48
1:I:186:ARG:O	1:I:336:GLU:HB3	2.13	0.48
1:J:186:ARG:O	1:J:336:GLU:HB3	2.13	0.48
1:K:186:ARG:O	1:K:336:GLU:HB3	2.13	0.48
1:L:102:ILE:HD11	1:L:104:TYR:CE2	2.48	0.48
1:L:110:TYR:CE2	1:M:275:LYS:HG3	2.48	0.48
1:M:316:LEU:HD13	1:M:362:ARG:HD3	1.95	0.48
1:O:141:VAL:O	1:O:145:ASP:CB	2.61	0.48
1:N:110:TYR:CE2	1:O:275:LYS:HG3	2.48	0.48
1:O:316:LEU:HD13	1:O:362:ARG:HD3	1.95	0.48
1:P:242:PHE:HE1	1:P:270:ASN:O	1.96	0.48
1:B:102:ILE:HD11	1:B:104:TYR:CE2	2.48	0.48
1:D:110:TYR:CE2	1:E:275:LYS:HG3	2.48	0.48
1:H:186:ARG:HH11	1:H:336:GLU:CD	2.17	0.48
1:H:89:GLN:HB2	1:K:92:PHE:HZ	1.77	0.48
1:I:275:LYS:HG3	1:P:110:TYR:CE2	2.48	0.48
1:B:89:GLN:HB2	1:I:92:PHE:HZ	1.78	0.48
1:J:186:ARG:HH11	1:J:336:GLU:CD	2.17	0.48
1:G:261:ASP:HB3	1:K:259:GLN:HE22	1.78	0.48
1:N:186:ARG:O	1:N:336:GLU:HB3	2.13	0.48
1:A:186:ARG:O	1:A:336:GLU:HB3	2.13	0.48
1:C:242:PHE:CG	1:C:242:PHE:O	2.66	0.48
1:C:236:TRP:CD1	1:C:243:PRO:HA	2.47	0.48
1:D:186:ARG:O	1:D:336:GLU:HB3	2.13	0.48
1:G:316:LEU:HD13	1:G:362:ARG:HD3	1.95	0.48
1:I:316:LEU:HD13	1:I:362:ARG:HD3	1.95	0.48
1:A:22:PRO:HG2	1:A:33:ARG:NH1	2.29	0.48
1:B:186:ARG:HH11	1:B:336:GLU:CD	2.17	0.48
1:A:110:TYR:CE2	1:B:275:LYS:HG3	2.49	0.48
1:B:89:GLN:HG3	1:B:90:LEU:N	2.22	0.48
1:C:22:PRO:HG2	1:C:33:ARG:NH1	2.29	0.48
1:E:202:ASN:O	1:E:206:GLN:HG2	2.14	0.48
1:G:202:ASN:O	1:G:206:GLN:HG2	2.14	0.48
1:F:110:TYR:CE2	1:G:275:LYS:HG3	2.48	0.48
1:H:102:ILE:HD13	1:H:243:PRO:HD2	1.95	0.48
1:I:202:ASN:O	1:I:206:GLN:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:102:ILE:HD13	1:K:243:PRO:HD2	1.95	0.48
1:K:210:LEU:O	1:K:213:LEU:N	2.44	0.48
1:L:186:ARG:HH11	1:L:336:GLU:CD	2.17	0.48
1:L:242:PHE:O	1:L:242:PHE:CG	2.66	0.48
1:M:242:PHE:CG	1:M:242:PHE:O	2.66	0.48
1:O:186:ARG:O	1:O:336:GLU:HB3	2.13	0.48
1:P:123:ARG:O	1:P:126:TRP:N	2.46	0.48
1:A:102:ILE:HD13	1:A:243:PRO:HD2	1.95	0.48
1:E:102:ILE:HD11	1:E:104:TYR:CE2	2.48	0.48
1:E:186:ARG:O	1:E:336:GLU:HB3	2.13	0.48
1:F:123:ARG:O	1:F:126:TRP:N	2.46	0.48
1:J:102:ILE:HD13	1:J:243:PRO:HD2	1.95	0.48
1:K:22:PRO:HG2	1:K:33:ARG:NH1	2.29	0.48
1:M:22:PRO:HG2	1:M:33:ARG:NH1	2.29	0.48
1:O:202:ASN:O	1:O:206:GLN:HG2	2.14	0.48
1:A:210:LEU:O	1:A:213:LEU:N	2.44	0.48
1:B:242:PHE:CG	1:B:242:PHE:O	2.66	0.48
1:C:205:ILE:O	1:C:209:ILE:HG12	2.12	0.48
1:D:89:GLN:HB2	1:O:92:PHE:HZ	1.79	0.48
1:F:22:PRO:HG2	1:F:33:ARG:NH1	2.29	0.48
1:G:22:PRO:HG2	1:G:33:ARG:NH1	2.29	0.48
1:H:242:PHE:CG	1:H:242:PHE:O	2.66	0.48
1:I:22:PRO:HG2	1:I:33:ARG:NH1	2.29	0.48
1:J:242:PHE:CG	1:J:242:PHE:O	2.66	0.48
1:L:89:GLN:HG3	1:L:90:LEU:N	2.22	0.48
1:M:205:ILE:O	1:M:209:ILE:HG12	2.12	0.48
1:M:236:TRP:CD1	1:M:243:PRO:HA	2.47	0.48
1:O:102:ILE:HD11	1:O:104:TYR:CE2	2.48	0.48
1:P:22:PRO:HG2	1:P:33:ARG:NH1	2.29	0.48
1:A:141:VAL:O	1:A:145:ASP:CB	2.61	0.48
1:A:316:LEU:HD13	1:A:362:ARG:HD3	1.95	0.48
1:E:102:ILE:HD13	1:E:243:PRO:HD2	1.95	0.48
1:F:186:ARG:O	1:F:336:GLU:HB3	2.13	0.48
1:G:89:GLN:CG	1:G:90:LEU:H	2.23	0.48
1:H:123:ARG:O	1:H:126:TRP:N	2.46	0.48
1:J:123:ARG:O	1:J:126:TRP:N	2.46	0.48
1:J:316:LEU:HD13	1:J:362:ARG:HD3	1.95	0.48
1:K:141:VAL:O	1:K:145:ASP:CB	2.61	0.48
1:M:102:ILE:HD11	1:M:104:TYR:CE2	2.48	0.48
1:P:186:ARG:HH11	1:P:336:GLU:CD	2.17	0.48
1:A:168:ARG:HG3	1:B:158:PHE:CE2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:123:ARG:O	1:C:126:TRP:N	2.46	0.48
1:F:202:ASN:O	1:F:206:GLN:HG2	2.14	0.48
1:F:318:THR:HG23	1:F:319:ALA:N	2.27	0.48
1:F:186:ARG:HH11	1:F:336:GLU:CD	2.17	0.48
1:G:89:GLN:HB2	1:L:92:PHE:HZ	1.79	0.48
1:G:92:PHE:HZ	1:L:89:GLN:HB2	1.79	0.48
1:H:117:PHE:HD2	1:H:118:LEU:HD12	1.76	0.48
1:H:210:LEU:O	1:H:213:LEU:N	2.44	0.48
1:J:22:PRO:HG2	1:J:33:ARG:NH1	2.29	0.48
1:K:316:LEU:HD13	1:K:362:ARG:HD3	1.95	0.48
1:L:186:ARG:O	1:L:336:GLU:HB3	2.13	0.48
1:L:316:LEU:HD13	1:L:362:ARG:HD3	1.95	0.48
1:M:123:ARG:O	1:M:126:TRP:N	2.46	0.48
1:N:202:ASN:O	1:N:206:GLN:HG2	2.14	0.48
1:O:102:ILE:HD13	1:O:243:PRO:HD2	1.95	0.48
1:P:186:ARG:O	1:P:336:GLU:HB3	2.13	0.48
1:C:89:GLN:HB2	1:P:92:PHE:HZ	1.79	0.48
1:A:123:ARG:O	1:A:126:TRP:N	2.46	0.48
1:A:190:LEU:HA	1:A:193:THR:HG22	1.96	0.48
1:A:202:ASN:O	1:A:206:GLN:HG2	2.14	0.48
1:A:242:PHE:CG	1:A:242:PHE:O	2.66	0.48
1:B:123:ARG:O	1:B:126:TRP:N	2.46	0.48
1:B:202:ASN:O	1:B:206:GLN:HG2	2.14	0.48
1:B:316:LEU:HD13	1:B:362:ARG:HD3	1.95	0.48
1:C:102:ILE:HD11	1:C:104:TYR:CE2	2.48	0.48
1:C:186:ARG:O	1:C:336:GLU:HB3	2.13	0.48
1:C:168:ARG:HG3	1:D:158:PHE:CE2	2.49	0.48
1:E:22:PRO:HG2	1:E:33:ARG:NH1	2.29	0.48
1:H:22:PRO:HG2	1:H:33:ARG:NH1	2.29	0.48
1:H:316:LEU:HD13	1:H:362:ARG:HD3	1.95	0.48
1:I:89:GLN:CG	1:I:90:LEU:H	2.23	0.48
1:J:117:PHE:HD2	1:J:118:LEU:HD12	1.76	0.48
1:J:210:LEU:O	1:J:213:LEU:N	2.44	0.48
1:K:190:LEU:HA	1:K:193:THR:HG22	1.96	0.48
1:K:202:ASN:O	1:K:206:GLN:HG2	2.14	0.48
1:K:39:LEU:HD23	1:K:115:GLN:CB	2.42	0.48
1:L:123:ARG:O	1:L:126:TRP:N	2.46	0.48
1:M:186:ARG:HH11	1:M:336:GLU:CD	2.17	0.48
1:O:168:ARG:HG3	1:P:158:PHE:CE2	2.49	0.48
1:O:22:PRO:HG2	1:O:33:ARG:NH1	2.29	0.48
1:P:202:ASN:O	1:P:206:GLN:HG2	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:141:VAL:O	1:B:145:ASP:CB	2.61	0.48
1:B:186:ARG:O	1:B:336:GLU:HB3	2.13	0.48
1:C:186:ARG:HH11	1:C:336:GLU:CD	2.17	0.48
1:D:202:ASN:O	1:D:206:GLN:HG2	2.14	0.48
1:F:141:VAL:O	1:F:145:ASP:CB	2.61	0.48
1:G:89:GLN:HG3	1:G:90:LEU:N	2.22	0.48
1:I:89:GLN:HG3	1:I:90:LEU:N	2.22	0.48
1:K:123:ARG:O	1:K:126:TRP:N	2.46	0.48
1:K:242:PHE:O	1:K:242:PHE:CG	2.66	0.48
1:L:202:ASN:O	1:L:206:GLN:HG2	2.14	0.48
1:L:22:PRO:HG2	1:L:33:ARG:NH1	2.29	0.48
1:M:102:ILE:HD13	1:M:243:PRO:HD2	1.95	0.48
1:M:186:ARG:O	1:M:336:GLU:HB3	2.13	0.48
1:M:275:LYS:HD3	1:M:275:LYS:HA	1.70	0.48
1:F:92:PHE:HZ	1:M:89:GLN:HB2	1.79	0.48
1:N:102:ILE:HD13	1:N:243:PRO:HD2	1.95	0.48
1:A:39:LEU:HD23	1:A:115:GLN:CB	2.42	0.47
1:B:22:PRO:HG2	1:B:33:ARG:NH1	2.29	0.47
1:C:102:ILE:HD13	1:C:243:PRO:HD2	1.95	0.47
1:D:102:ILE:HD13	1:D:243:PRO:HD2	1.95	0.47
1:G:110:TYR:CE2	1:H:275:LYS:HG3	2.49	0.47
1:H:190:LEU:HA	1:H:193:THR:HG22	1.96	0.47
1:L:141:VAL:O	1:L:145:ASP:CB	2.61	0.47
1:P:318:THR:HG23	1:P:319:ALA:N	2.27	0.47
1:B:102:ILE:HD13	1:B:243:PRO:HD2	1.95	0.47
1:C:202:ASN:O	1:C:206:GLN:HG2	2.14	0.47
1:E:186:ARG:HH11	1:E:336:GLU:CD	2.17	0.47
1:G:102:ILE:HD13	1:G:243:PRO:HD2	1.95	0.47
1:I:102:ILE:HD13	1:I:243:PRO:HD2	1.95	0.47
1:K:186:ARG:HH11	1:K:336:GLU:CD	2.17	0.47
1:L:102:ILE:HD13	1:L:243:PRO:HD2	1.95	0.47
1:N:102:ILE:HD11	1:N:104:TYR:CE2	2.48	0.47
1:N:22:PRO:HG2	1:N:33:ARG:NH1	2.29	0.47
1:O:186:ARG:HH11	1:O:336:GLU:CD	2.17	0.47
1:P:141:VAL:O	1:P:145:ASP:CB	2.61	0.47
1:A:276:LEU:HD12	1:A:277:PHE:N	2.30	0.47
1:A:186:ARG:HH11	1:A:336:GLU:CD	2.17	0.47
1:B:210:LEU:O	1:B:213:LEU:N	2.44	0.47
1:C:190:LEU:HA	1:C:193:THR:HG22	1.96	0.47
1:D:102:ILE:HD11	1:D:104:TYR:CE2	2.48	0.47
1:H:141:VAL:O	1:H:145:ASP:CB	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:141:VAL:O	1:J:145:ASP:CB	2.61	0.47
1:J:190:LEU:HA	1:J:193:THR:HG22	1.96	0.47
1:J:276:LEU:HD12	1:J:277:PHE:N	2.30	0.47
1:J:46:LEU:HA	1:J:46:LEU:HD23	1.58	0.47
1:K:276:LEU:HD12	1:K:277:PHE:N	2.30	0.47
1:M:202:ASN:O	1:M:206:GLN:HG2	2.14	0.47
1:D:123:ARG:O	1:D:126:TRP:N	2.46	0.47
1:D:190:LEU:HA	1:D:193:THR:HG22	1.96	0.47
1:D:22:PRO:HG2	1:D:33:ARG:NH1	2.29	0.47
1:E:92:PHE:HZ	1:N:89:GLN:HB2	1.79	0.47
1:E:168:ARG:HG3	1:F:158:PHE:CE2	2.49	0.47
1:F:316:LEU:HD13	1:F:362:ARG:HD3	1.95	0.47
1:F:89:GLN:CG	1:F:90:LEU:H	2.23	0.47
1:G:210:LEU:O	1:G:213:LEU:N	2.44	0.47
1:G:186:ARG:HH11	1:G:336:GLU:CD	2.17	0.47
1:H:276:LEU:HD12	1:H:277:PHE:N	2.30	0.47
1:I:210:LEU:O	1:I:213:LEU:N	2.44	0.47
1:L:210:LEU:O	1:L:213:LEU:N	2.44	0.47
1:M:168:ARG:HG3	1:N:158:PHE:CE2	2.50	0.47
1:N:190:LEU:HA	1:N:193:THR:HG22	1.96	0.47
1:B:276:LEU:HD12	1:B:277:PHE:N	2.30	0.47
1:C:110:TYR:CE2	1:D:275:LYS:HG3	2.49	0.47
1:E:110:TYR:CE2	1:F:275:LYS:HG3	2.49	0.47
1:G:276:LEU:HD12	1:G:277:PHE:N	2.30	0.47
1:I:276:LEU:HD12	1:I:277:PHE:N	2.30	0.47
1:I:186:ARG:HH11	1:I:336:GLU:CD	2.17	0.47
1:L:276:LEU:HD12	1:L:277:PHE:N	2.30	0.47
1:M:190:LEU:HA	1:M:193:THR:HG22	1.96	0.47
1:N:123:ARG:O	1:N:126:TRP:N	2.46	0.47
1:P:102:ILE:HD13	1:P:243:PRO:HD2	1.95	0.47
1:P:316:LEU:HD13	1:P:362:ARG:HD3	1.95	0.47
1:P:89:GLN:CG	1:P:90:LEU:H	2.23	0.47
1:A:275:LYS:HD3	1:A:275:LYS:HA	1.70	0.47
1:H:89:GLN:HG3	1:H:90:LEU:N	2.22	0.47
1:I:110:TYR:CE2	1:J:275:LYS:HG3	2.49	0.47
1:J:89:GLN:HG3	1:J:90:LEU:N	2.22	0.47
1:L:46:LEU:HA	1:L:46:LEU:HD23	1.58	0.47
1:M:110:TYR:CE2	1:N:275:LYS:HG3	2.49	0.47
1:P:190:LEU:HA	1:P:193:THR:HG22	1.96	0.47
1:A:89:GLN:HB2	1:J:92:PHE:HZ	1.79	0.47
1:D:168:ARG:HG3	1:E:158:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:102:ILE:HD13	1:F:243:PRO:HD2	1.95	0.47
1:F:305:LYS:HA	1:F:308:ALA:HB2	1.97	0.47
1:G:168:ARG:HG3	1:H:158:PHE:CE2	2.49	0.47
1:H:46:LEU:HD23	1:H:46:LEU:HA	1.58	0.47
1:J:146:ARG:HH21	1:K:152:ARG:HE	1.62	0.47
1:E:89:GLN:HB2	1:N:92:PHE:HZ	1.79	0.47
1:O:110:TYR:CE2	1:P:275:LYS:HG3	2.49	0.47
1:O:190:LEU:HA	1:O:193:THR:HG22	1.96	0.47
1:D:92:PHE:HZ	1:O:89:GLN:HB2	1.79	0.47
1:P:276:LEU:HD12	1:P:277:PHE:N	2.30	0.47
1:P:305:LYS:HA	1:P:308:ALA:HB2	1.97	0.47
1:E:190:LEU:HA	1:E:193:THR:HG22	1.96	0.47
1:F:190:LEU:HA	1:F:193:THR:HG22	1.96	0.47
1:F:276:LEU:HD12	1:F:277:PHE:N	2.30	0.47
1:F:333:ALA:HB1	1:F:368:PHE:CE2	2.50	0.47
1:O:267:LEU:HA	1:O:267:LEU:HD12	1.67	0.47
1:P:154:LYS:HE3	1:P:157:LYS:HG2	1.97	0.47
1:I:158:PHE:CE2	1:P:168:ARG:HG3	2.50	0.47
1:F:154:LYS:HE3	1:F:157:LYS:HG2	1.97	0.47
1:H:333:ALA:HB1	1:H:368:PHE:CE2	2.50	0.47
1:J:202:ASN:O	1:J:206:GLN:HG2	2.14	0.47
1:P:29:ARG:HH22	1:P:196:THR:HB	1.80	0.47
1:P:333:ALA:HB1	1:P:368:PHE:CE2	2.50	0.47
1:B:104:TYR:HA	1:B:107:TRP:HE3	1.80	0.47
1:B:333:ALA:HB1	1:B:368:PHE:CE2	2.50	0.47
1:D:186:ARG:HH11	1:D:336:GLU:CD	2.17	0.47
1:D:29:ARG:HH22	1:D:196:THR:HB	1.80	0.47
1:E:305:LYS:HA	1:E:308:ALA:HB2	1.97	0.47
1:E:89:GLN:CG	1:E:90:LEU:H	2.23	0.47
1:F:29:ARG:HH22	1:F:196:THR:HB	1.80	0.47
1:G:305:LYS:HA	1:G:308:ALA:HB2	1.97	0.47
1:H:202:ASN:O	1:H:206:GLN:HG2	2.14	0.47
1:H:236:TRP:CD1	1:H:243:PRO:HA	2.47	0.47
1:I:305:LYS:HA	1:I:308:ALA:HB2	1.97	0.47
1:A:92:PHE:HZ	1:J:89:GLN:HB2	1.79	0.47
1:L:190:LEU:HA	1:L:193:THR:HG22	1.96	0.47
1:N:168:ARG:HG3	1:O:158:PHE:CE2	2.50	0.47
1:N:29:ARG:HH22	1:N:196:THR:HB	1.80	0.47
1:O:89:GLN:CG	1:O:90:LEU:H	2.23	0.47
1:E:29:ARG:HH22	1:E:196:THR:HB	1.80	0.47
1:F:168:ARG:HG3	1:G:158:PHE:CE2	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:154:LYS:HE3	1:G:157:LYS:HG2	1.97	0.47
1:I:333:ALA:HB1	1:I:368:PHE:CE2	2.50	0.47
1:J:333:ALA:HB1	1:J:368:PHE:CE2	2.50	0.47
1:L:104:TYR:HA	1:L:107:TRP:HE3	1.80	0.47
1:L:333:ALA:HB1	1:L:368:PHE:CE2	2.50	0.47
1:M:276:LEU:HD12	1:M:277:PHE:N	2.30	0.47
1:N:218:ILE:HG13	1:N:219:TYR:CD2	2.50	0.47
1:O:154:LYS:HE3	1:O:157:LYS:HG2	1.97	0.47
1:O:305:LYS:HA	1:O:308:ALA:HB2	1.97	0.47
1:A:333:ALA:HB1	1:A:368:PHE:CE2	2.50	0.46
1:B:190:LEU:HA	1:B:193:THR:HG22	1.96	0.46
1:C:141:VAL:O	1:C:145:ASP:CB	2.61	0.46
1:C:276:LEU:HD12	1:C:277:PHE:N	2.30	0.46
1:C:29:ARG:HH22	1:C:196:THR:HB	1.80	0.46
1:C:333:ALA:HB1	1:C:368:PHE:CE2	2.50	0.46
1:E:236:TRP:CD1	1:E:243:PRO:HA	2.47	0.46
1:H:169:PRO:O	1:H:172:TYR:HB3	2.16	0.46
1:I:190:LEU:HA	1:I:193:THR:HG22	1.96	0.46
1:J:169:PRO:O	1:J:172:TYR:HB3	2.16	0.46
1:K:275:LYS:HD3	1:K:275:LYS:HA	1.70	0.46
1:M:29:ARG:HH22	1:M:196:THR:HB	1.80	0.46
1:M:333:ALA:HB1	1:M:368:PHE:CE2	2.50	0.46
1:N:186:ARG:HH11	1:N:336:GLU:CD	2.17	0.46
1:O:29:ARG:HH22	1:O:196:THR:HB	1.80	0.46
1:C:92:PHE:HZ	1:P:89:GLN:HB2	1.79	0.46
1:C:218:ILE:HG13	1:C:219:TYR:CD2	2.50	0.46
1:D:104:TYR:HA	1:D:107:TRP:HE3	1.80	0.46
1:D:218:ILE:HG13	1:D:219:TYR:CD2	2.50	0.46
1:D:305:LYS:HA	1:D:308:ALA:HB2	1.97	0.46
1:E:154:LYS:HE3	1:E:157:LYS:HG2	1.97	0.46
1:F:104:TYR:HA	1:F:107:TRP:HE3	1.80	0.46
1:F:89:GLN:HB2	1:M:92:PHE:HZ	1.79	0.46
1:G:169:PRO:O	1:G:172:TYR:HB3	2.16	0.46
1:G:333:ALA:HB1	1:G:368:PHE:CE2	2.50	0.46
1:H:29:ARG:HH22	1:H:196:THR:HB	1.80	0.46
1:I:169:PRO:O	1:I:172:TYR:HB3	2.16	0.46
1:J:236:TRP:CD1	1:J:243:PRO:HA	2.47	0.46
1:J:179:LEU:CD2	1:K:352:ILE:HA	2.45	0.46
1:K:333:ALA:HB1	1:K:368:PHE:CE2	2.50	0.46
1:M:218:ILE:HG13	1:M:219:TYR:CD2	2.50	0.46
1:G:190:LEU:HA	1:G:193:THR:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:104:TYR:HA	1:H:107:TRP:HE3	1.80	0.46
1:H:154:LYS:HE3	1:H:157:LYS:HG2	1.97	0.46
1:I:154:LYS:HE3	1:I:157:LYS:HG2	1.97	0.46
1:J:104:TYR:HA	1:J:107:TRP:HE3	1.80	0.46
1:J:29:ARG:HH22	1:J:196:THR:HB	1.80	0.46
1:J:218:ILE:HG13	1:J:219:TYR:CD2	2.50	0.46
1:M:141:VAL:O	1:M:145:ASP:CB	2.61	0.46
1:N:104:TYR:HA	1:N:107:TRP:HE3	1.80	0.46
1:N:276:LEU:HD12	1:N:277:PHE:N	2.30	0.46
1:N:305:LYS:HA	1:N:308:ALA:HB2	1.97	0.46
1:O:173:ILE:HA	1:O:173:ILE:HD13	1.77	0.46
1:P:104:TYR:HA	1:P:107:TRP:HE3	1.80	0.46
1:A:169:PRO:O	1:A:172:TYR:HB3	2.16	0.46
1:C:169:PRO:O	1:C:172:TYR:HB3	2.16	0.46
1:D:239:THR:OG1	1:D:241:HIS:O	2.34	0.46
1:D:276:LEU:HD12	1:D:277:PHE:N	2.30	0.46
1:D:333:ALA:HB1	1:D:368:PHE:CE2	2.50	0.46
1:E:275:LYS:HD3	1:E:275:LYS:HA	1.70	0.46
1:H:218:ILE:HG13	1:H:219:TYR:CD2	2.50	0.46
1:K:169:PRO:O	1:K:172:TYR:HB3	2.16	0.46
1:N:239:THR:OG1	1:N:241:HIS:O	2.34	0.46
1:O:236:TRP:CD1	1:O:243:PRO:HA	2.47	0.46
1:O:276:LEU:HD12	1:O:277:PHE:N	2.30	0.46
1:B:168:ARG:HG3	1:C:158:PHE:CE2	2.50	0.46
1:B:29:ARG:HH22	1:B:196:THR:HB	1.80	0.46
1:E:173:ILE:HD13	1:E:173:ILE:HA	1.77	0.46
1:E:218:ILE:HG13	1:E:219:TYR:CD2	2.50	0.46
1:E:267:LEU:HA	1:E:267:LEU:HD12	1.67	0.46
1:F:186:ARG:HD3	1:F:336:GLU:OE2	2.16	0.46
1:G:218:ILE:HG13	1:G:219:TYR:CD2	2.50	0.46
1:I:218:ILE:HG13	1:I:219:TYR:CD2	2.50	0.46
1:J:154:LYS:HE3	1:J:157:LYS:HG2	1.97	0.46
1:K:168:ARG:HG3	1:L:158:PHE:CE2	2.50	0.46
1:M:169:PRO:O	1:M:172:TYR:HB3	2.16	0.46
1:N:333:ALA:HB1	1:N:368:PHE:CE2	2.50	0.46
1:O:218:ILE:HG13	1:O:219:TYR:CD2	2.50	0.46
1:P:173:ILE:HA	1:P:173:ILE:HD13	1.77	0.46
1:P:186:ARG:HD3	1:P:336:GLU:OE2	2.16	0.46
1:B:239:THR:OG1	1:B:241:HIS:O	2.34	0.46
1:D:186:ARG:HD3	1:D:336:GLU:OE2	2.16	0.46
1:E:239:THR:OG1	1:E:241:HIS:O	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:276:LEU:HD12	1:E:277:PHE:N	2.30	0.46
1:G:141:VAL:O	1:G:145:ASP:CB	2.61	0.46
1:I:141:VAL:O	1:I:145:ASP:CB	2.61	0.46
1:L:168:ARG:HG3	1:M:158:PHE:CE2	2.50	0.46
1:L:29:ARG:HH22	1:L:196:THR:HB	1.80	0.46
1:M:239:THR:OG1	1:M:241:HIS:O	2.34	0.46
1:N:186:ARG:HD3	1:N:336:GLU:OE2	2.16	0.46
1:O:333:ALA:HB1	1:O:368:PHE:CE2	2.50	0.46
1:E:333:ALA:HB1	1:E:368:PHE:CE2	2.50	0.46
1:F:169:PRO:O	1:F:172:TYR:HB3	2.16	0.46
1:I:104:TYR:HA	1:I:107:TRP:HE3	1.80	0.46
1:I:168:ARG:HG3	1:J:158:PHE:CE2	2.50	0.46
1:L:239:THR:OG1	1:L:241:HIS:O	2.34	0.46
1:O:169:PRO:O	1:O:172:TYR:HB3	2.16	0.46
1:O:239:THR:OG1	1:O:241:HIS:O	2.34	0.46
1:P:169:PRO:O	1:P:172:TYR:HB3	2.16	0.46
1:B:218:ILE:HG13	1:B:219:TYR:CD2	2.50	0.46
1:B:186:ARG:HD3	1:B:336:GLU:OE2	2.16	0.46
1:C:104:TYR:HA	1:C:107:TRP:HE3	1.80	0.46
1:C:239:THR:OG1	1:C:241:HIS:O	2.34	0.46
1:C:305:LYS:HA	1:C:308:ALA:HB2	1.97	0.46
1:C:186:ARG:HD3	1:C:336:GLU:OE2	2.16	0.46
1:C:89:GLN:CG	1:C:90:LEU:H	2.23	0.46
1:D:154:LYS:HE3	1:D:157:LYS:HG2	1.97	0.46
1:E:169:PRO:O	1:E:172:TYR:HB3	2.16	0.46
1:G:104:TYR:HA	1:G:107:TRP:HE3	1.80	0.46
1:G:29:ARG:HH22	1:G:196:THR:HB	1.80	0.46
1:L:186:ARG:HD3	1:L:336:GLU:OE2	2.16	0.46
1:L:218:ILE:HG13	1:L:219:TYR:CD2	2.50	0.46
1:L:305:LYS:HA	1:L:308:ALA:HB2	1.97	0.46
1:N:154:LYS:HE3	1:N:157:LYS:HG2	1.97	0.46
1:H:305:LYS:HA	1:H:308:ALA:HB2	1.97	0.46
1:I:29:ARG:HH22	1:I:196:THR:HB	1.80	0.46
1:I:46:LEU:HD23	1:I:46:LEU:HA	1.58	0.46
1:K:29:ARG:HH22	1:K:196:THR:HB	1.80	0.46
1:M:186:ARG:HD3	1:M:336:GLU:OE2	2.16	0.46
1:M:305:LYS:HA	1:M:308:ALA:HB2	1.97	0.46
1:A:218:ILE:HG13	1:A:219:TYR:CD2	2.50	0.46
1:A:239:THR:OG1	1:A:241:HIS:O	2.34	0.46
1:C:367:ASP:OD1	1:C:368:PHE:N	2.49	0.46
1:E:186:ARG:HD3	1:E:336:GLU:OE2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:173:ILE:HD13	1:F:173:ILE:HA	1.77	0.46
1:H:186:ARG:HD3	1:H:336:GLU:OE2	2.16	0.46
1:J:305:LYS:HA	1:J:308:ALA:HB2	1.97	0.46
1:K:110:TYR:CE2	1:L:275:LYS:HG3	2.51	0.46
1:K:154:LYS:HE3	1:K:157:LYS:HG2	1.97	0.46
1:K:239:THR:OG1	1:K:241:HIS:O	2.34	0.46
1:L:367:ASP:OD1	1:L:368:PHE:N	2.49	0.46
1:M:104:TYR:HA	1:M:107:TRP:HE3	1.80	0.46
1:M:367:ASP:OD1	1:M:368:PHE:N	2.49	0.46
1:N:367:ASP:OD1	1:N:368:PHE:N	2.49	0.46
1:A:154:LYS:HE3	1:A:157:LYS:HG2	1.97	0.45
1:A:29:ARG:HH22	1:A:196:THR:HB	1.80	0.45
1:B:305:LYS:HA	1:B:308:ALA:HB2	1.97	0.45
1:B:367:ASP:OD1	1:B:368:PHE:N	2.50	0.45
1:D:106:GLN:O	1:E:275:LYS:NZ	2.38	0.45
1:D:367:ASP:OD1	1:D:368:PHE:N	2.50	0.45
1:G:318:THR:HG23	1:G:319:ALA:N	2.27	0.45
1:J:186:ARG:HD3	1:J:336:GLU:OE2	2.16	0.45
1:M:89:GLN:CG	1:M:90:LEU:H	2.23	0.45
1:N:236:TRP:CD1	1:N:243:PRO:HA	2.47	0.45
1:O:104:TYR:HA	1:O:107:TRP:HE3	1.80	0.45
1:O:275:LYS:HA	1:O:275:LYS:HD3	1.70	0.45
1:E:104:TYR:HA	1:E:107:TRP:HE3	1.80	0.45
1:F:130:ILE:HA	1:F:130:ILE:HD12	1.84	0.45
1:K:218:ILE:HG13	1:K:219:TYR:CD2	2.50	0.45
1:K:305:LYS:HA	1:K:308:ALA:HB2	1.97	0.45
1:O:186:ARG:HD3	1:O:336:GLU:OE2	2.16	0.45
1:P:218:ILE:HG13	1:P:219:TYR:CD2	2.50	0.45
1:B:154:LYS:HE3	1:B:157:LYS:HG2	1.97	0.45
1:C:130:ILE:HD12	1:C:130:ILE:HA	1.84	0.45
1:F:218:ILE:HG13	1:F:219:TYR:CD2	2.50	0.45
1:L:169:PRO:O	1:L:172:TYR:HB3	2.16	0.45
1:A:158:PHE:CE2	1:H:168:ARG:HG3	2.51	0.45
1:B:169:PRO:O	1:B:172:TYR:HB3	2.16	0.45
1:F:239:THR:OG1	1:F:241:HIS:O	2.34	0.45
1:G:173:ILE:HA	1:G:173:ILE:HD13	1.77	0.45
1:G:275:LYS:HA	1:G:275:LYS:HD3	1.70	0.45
1:I:318:THR:HG23	1:I:319:ALA:N	2.27	0.45
1:J:367:ASP:OD1	1:J:368:PHE:N	2.49	0.45
1:K:104:TYR:HA	1:K:107:TRP:HE3	1.80	0.45
1:N:169:PRO:O	1:N:172:TYR:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:305:LYS:HA	1:A:308:ALA:HB2	1.97	0.45
1:C:154:LYS:HE3	1:C:157:LYS:HG2	1.97	0.45
1:C:275:LYS:HD3	1:C:275:LYS:HA	1.70	0.45
1:C:46:LEU:HA	1:C:46:LEU:HD23	1.58	0.45
1:D:103:GLN:O	1:D:103:GLN:HG3	2.17	0.45
1:D:169:PRO:O	1:D:172:TYR:HB3	2.16	0.45
1:E:103:GLN:O	1:E:103:GLN:HG3	2.17	0.45
1:H:367:ASP:OD1	1:H:368:PHE:N	2.50	0.45
1:K:186:ARG:HD3	1:K:336:GLU:OE2	2.16	0.45
1:L:154:LYS:HE3	1:L:157:LYS:HG2	1.97	0.45
1:L:275:LYS:HD3	1:L:275:LYS:HA	1.70	0.45
1:M:154:LYS:HE3	1:M:157:LYS:HG2	1.97	0.45
1:O:103:GLN:HG3	1:O:103:GLN:O	2.17	0.45
1:P:239:THR:OG1	1:P:241:HIS:O	2.34	0.45
1:A:103:GLN:O	1:A:103:GLN:HG3	2.17	0.45
1:A:104:TYR:HA	1:A:107:TRP:HE3	1.80	0.45
1:A:367:ASP:OD1	1:A:368:PHE:N	2.49	0.45
1:B:259:GLN:HE22	1:P:261:ASP:HB3	1.82	0.45
1:G:46:LEU:HA	1:G:46:LEU:HD23	1.58	0.45
1:H:239:THR:OG1	1:H:241:HIS:O	2.34	0.45
1:J:239:THR:OG1	1:J:241:HIS:O	2.34	0.45
1:K:367:ASP:OD1	1:K:368:PHE:N	2.50	0.45
1:B:261:ASP:HB3	1:P:259:GLN:HE22	1.82	0.45
1:A:214:LEU:HD23	1:A:214:LEU:HA	1.76	0.45
1:A:186:ARG:HD3	1:A:336:GLU:OE2	2.16	0.45
1:K:103:GLN:O	1:K:103:GLN:HG3	2.17	0.45
1:K:146:ARG:NH2	1:L:152:ARG:HE	2.15	0.45
1:M:210:LEU:O	1:M:213:LEU:N	2.44	0.45
1:N:103:GLN:O	1:N:103:GLN:HG3	2.17	0.45
1:O:108:VAL:HG11	1:O:273:TYR:CE1	2.52	0.45
1:B:84:VAL:HG22	1:B:85:PRO:O	2.17	0.45
1:D:89:GLN:O	1:D:90:LEU:HD23	2.17	0.45
1:E:108:VAL:HG11	1:E:273:TYR:CE1	2.52	0.45
1:J:103:GLN:HG3	1:J:103:GLN:O	2.17	0.45
1:L:84:VAL:HG22	1:L:85:PRO:O	2.17	0.45
1:M:130:ILE:HA	1:M:130:ILE:HD12	1.84	0.45
1:M:89:GLN:O	1:M:90:LEU:HD23	2.17	0.45
1:N:89:GLN:O	1:N:90:LEU:HD23	2.17	0.45
1:O:89:GLN:O	1:O:90:LEU:HD23	2.17	0.45
1:P:130:ILE:HD12	1:P:130:ILE:HA	1.84	0.45
1:A:267:LEU:HD12	1:A:267:LEU:HA	1.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:VAL:HG22	1:A:85:PRO:O	2.17	0.45
1:B:236:TRP:CD1	1:B:243:PRO:HA	2.47	0.45
1:B:89:GLN:O	1:B:90:LEU:HD23	2.17	0.45
1:C:210:LEU:O	1:C:213:LEU:N	2.44	0.45
1:C:89:GLN:O	1:C:90:LEU:HD23	2.17	0.45
1:D:320:PRO:O	1:D:321:ILE:HG12	2.17	0.45
1:E:84:VAL:HG22	1:E:85:PRO:O	2.17	0.45
1:E:89:GLN:O	1:E:90:LEU:HD23	2.17	0.45
1:F:320:PRO:O	1:F:321:ILE:HG12	2.17	0.45
1:G:102:ILE:HD11	1:G:104:TYR:CE2	2.48	0.45
1:G:239:THR:OG1	1:G:241:HIS:O	2.34	0.45
1:G:325:ILE:H	1:G:325:ILE:HD12	1.82	0.45
1:I:102:ILE:HD11	1:I:104:TYR:CE2	2.48	0.45
1:I:186:ARG:HD3	1:I:336:GLU:OE2	2.16	0.45
1:I:239:THR:OG1	1:I:241:HIS:O	2.34	0.45
1:I:325:ILE:HD12	1:I:325:ILE:H	1.82	0.45
1:K:108:VAL:HG11	1:K:273:TYR:CE1	2.52	0.45
1:L:320:PRO:O	1:L:321:ILE:HG12	2.17	0.45
1:L:89:GLN:O	1:L:90:LEU:HD23	2.17	0.45
1:D:259:GLN:HE22	1:N:261:ASP:HB3	1.82	0.45
1:N:320:PRO:O	1:N:321:ILE:HG12	2.17	0.45
1:O:84:VAL:HG22	1:O:85:PRO:O	2.17	0.45
1:P:320:PRO:O	1:P:321:ILE:HG12	2.17	0.45
1:P:367:ASP:OD1	1:P:368:PHE:N	2.49	0.45
1:A:108:VAL:HG11	1:A:273:TYR:CE1	2.52	0.45
1:A:320:PRO:O	1:A:321:ILE:HG12	2.17	0.45
1:B:320:PRO:O	1:B:321:ILE:HG12	2.17	0.45
1:F:367:ASP:OD1	1:F:368:PHE:N	2.50	0.45
1:G:186:ARG:HD3	1:G:336:GLU:OE2	2.16	0.45
1:G:84:VAL:HG22	1:G:85:PRO:O	2.17	0.45
1:H:103:GLN:HG3	1:H:103:GLN:O	2.17	0.45
1:H:318:THR:HG23	1:H:319:ALA:N	2.27	0.45
1:I:275:LYS:HA	1:I:275:LYS:HD3	1.70	0.45
1:H:261:ASP:HB3	1:J:259:GLN:HE22	1.82	0.45
1:J:84:VAL:HG22	1:J:85:PRO:O	2.17	0.45
1:K:84:VAL:HG22	1:K:85:PRO:O	2.17	0.45
1:N:46:LEU:HD23	1:N:46:LEU:HA	1.58	0.45
1:F:108:VAL:HG11	1:F:273:TYR:CE1	2.52	0.44
1:F:261:ASP:HB3	1:L:259:GLN:HE22	1.82	0.44
1:H:108:VAL:HG11	1:H:273:TYR:CE1	2.52	0.44
1:H:84:VAL:HG22	1:H:85:PRO:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:102:ILE:HD11	1:J:104:TYR:CE2	2.48	0.44
1:J:108:VAL:HG11	1:J:273:TYR:CE1	2.52	0.44
1:J:320:PRO:O	1:J:321:ILE:HG12	2.17	0.44
1:K:110:TYR:HD2	1:L:275:LYS:HZ3	1.64	0.44
1:K:320:PRO:O	1:K:321:ILE:HG12	2.17	0.44
1:N:108:VAL:HG11	1:N:273:TYR:CE1	2.52	0.44
1:I:152:ARG:HD2	1:P:143:TYR:CD1	2.53	0.44
1:P:108:VAL:HG11	1:P:273:TYR:CE1	2.52	0.44
1:B:103:GLN:O	1:B:103:GLN:HG3	2.17	0.44
1:B:108:VAL:HG11	1:B:273:TYR:CE1	2.52	0.44
1:B:46:LEU:HA	1:B:46:LEU:HD23	1.58	0.44
1:F:84:VAL:HG22	1:F:85:PRO:O	2.17	0.44
1:H:102:ILE:HD11	1:H:104:TYR:CE2	2.48	0.44
1:H:320:PRO:O	1:H:321:ILE:HG12	2.17	0.44
1:I:84:VAL:HG22	1:I:85:PRO:O	2.17	0.44
1:J:318:THR:HG23	1:J:319:ALA:N	2.27	0.44
1:L:103:GLN:HG3	1:L:103:GLN:O	2.17	0.44
1:L:236:TRP:CD1	1:L:243:PRO:HA	2.47	0.44
1:F:259:GLN:HE22	1:L:261:ASP:HB3	1.82	0.44
1:L:108:VAL:HG11	1:L:273:TYR:CE1	2.52	0.44
1:M:84:VAL:HG22	1:M:85:PRO:O	2.17	0.44
1:P:103:GLN:O	1:P:103:GLN:HG3	2.17	0.44
1:P:210:LEU:O	1:P:213:LEU:N	2.44	0.44
1:P:46:LEU:HA	1:P:46:LEU:HD23	1.58	0.44
1:P:84:VAL:HG22	1:P:85:PRO:O	2.17	0.44
1:A:143:TYR:CD1	1:B:152:ARG:HD2	2.52	0.44
1:C:292:THR:O	1:C:295:CYS:N	2.50	0.44
1:C:84:VAL:HG22	1:C:85:PRO:O	2.17	0.44
1:D:108:VAL:HG11	1:D:273:TYR:CE1	2.52	0.44
1:D:315:TYR:O	1:D:318:THR:HG22	2.17	0.44
1:E:261:ASP:HB3	1:M:259:GLN:HE22	1.83	0.44
1:F:103:GLN:HG3	1:F:103:GLN:O	2.17	0.44
1:F:292:THR:O	1:F:295:CYS:N	2.50	0.44
1:M:163:ALA:O	1:M:166:GLU:HB3	2.18	0.44
1:M:46:LEU:HD23	1:M:46:LEU:HA	1.58	0.44
1:D:261:ASP:HB3	1:N:259:GLN:HE22	1.82	0.44
1:C:259:GLN:HE22	1:O:261:ASP:HB3	1.83	0.44
1:B:163:ALA:O	1:B:166:GLU:HB3	2.18	0.44
1:C:163:ALA:O	1:C:166:GLU:HB3	2.18	0.44
1:E:367:ASP:OD1	1:E:368:PHE:N	2.49	0.44
1:F:210:LEU:O	1:F:213:LEU:N	2.44	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:163:ALA:O	1:H:166:GLU:HB3	2.18	0.44
1:I:367:ASP:OD1	1:I:368:PHE:N	2.50	0.44
1:J:163:ALA:O	1:J:166:GLU:HB3	2.18	0.44
1:L:173:ILE:HA	1:L:173:ILE:HD13	1.77	0.44
1:L:315:TYR:O	1:L:318:THR:HG22	2.17	0.44
1:M:292:THR:O	1:M:295:CYS:N	2.50	0.44
1:N:163:ALA:O	1:N:166:GLU:HB3	2.18	0.44
1:N:315:TYR:O	1:N:318:THR:HG22	2.17	0.44
1:P:292:THR:O	1:P:295:CYS:N	2.50	0.44
1:A:163:ALA:O	1:A:166:GLU:HB3	2.18	0.44
1:A:89:GLN:O	1:A:90:LEU:HD23	2.17	0.44
1:C:146:ARG:NH2	1:D:152:ARG:HE	2.15	0.44
1:D:163:ALA:O	1:D:166:GLU:HB3	2.18	0.44
1:D:186:ARG:NH1	1:D:336:GLU:OE2	2.49	0.44
1:E:315:TYR:O	1:E:318:THR:HG22	2.17	0.44
1:G:367:ASP:OD1	1:G:368:PHE:N	2.49	0.44
1:J:110:TYR:CD2	1:K:275:LYS:HG3	2.52	0.44
1:H:259:GLN:HE22	1:J:261:ASP:HB3	1.82	0.44
1:M:325:ILE:H	1:M:325:ILE:HD12	1.82	0.44
1:O:315:TYR:O	1:O:318:THR:HG22	2.17	0.44
1:O:367:ASP:OD1	1:O:368:PHE:N	2.49	0.44
1:P:89:GLN:O	1:P:90:LEU:HD23	2.17	0.44
1:B:315:TYR:O	1:B:318:THR:HG22	2.17	0.44
1:C:103:GLN:O	1:C:103:GLN:HG3	2.17	0.44
1:C:325:ILE:HD12	1:C:325:ILE:H	1.82	0.44
1:C:45:LEU:O	1:C:48:SER:HB3	2.18	0.44
1:D:292:THR:O	1:D:295:CYS:N	2.50	0.44
1:D:45:LEU:O	1:D:48:SER:HB3	2.18	0.44
1:D:84:VAL:HG22	1:D:85:PRO:O	2.17	0.44
1:F:315:TYR:O	1:F:318:THR:HG22	2.17	0.44
1:K:163:ALA:O	1:K:166:GLU:HB3	2.18	0.44
1:K:173:ILE:HA	1:K:173:ILE:HD13	1.77	0.44
1:K:89:GLN:O	1:K:90:LEU:HD23	2.17	0.44
1:L:163:ALA:O	1:L:166:GLU:HB3	2.18	0.44
1:N:292:THR:O	1:N:295:CYS:N	2.50	0.44
1:N:186:ARG:NH1	1:N:336:GLU:OE2	2.49	0.44
1:N:45:LEU:O	1:N:48:SER:HB3	2.18	0.44
1:O:320:PRO:O	1:O:321:ILE:HG12	2.17	0.44
1:A:146:ARG:NH2	1:B:152:ARG:HE	2.15	0.44
1:B:325:ILE:H	1:B:325:ILE:HD12	1.82	0.44
1:C:186:ARG:NH1	1:C:336:GLU:OE2	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:163:ALA:O	1:E:166:GLU:HB3	2.18	0.44
1:E:186:ARG:NH1	1:E:336:GLU:OE2	2.49	0.44
1:F:89:GLN:O	1:F:90:LEU:HD23	2.17	0.44
1:G:82:TYR:O	1:G:246:VAL:HB	2.18	0.44
1:G:315:TYR:O	1:G:318:THR:HG22	2.17	0.44
1:G:320:PRO:O	1:G:321:ILE:HG12	2.17	0.44
1:J:89:GLN:O	1:J:90:LEU:HD23	2.17	0.44
1:K:267:LEU:HA	1:K:267:LEU:HD12	1.67	0.44
1:M:103:GLN:HG3	1:M:103:GLN:O	2.17	0.44
1:M:214:LEU:HA	1:M:214:LEU:HD23	1.76	0.44
1:M:45:LEU:O	1:M:48:SER:HB3	2.18	0.44
1:N:84:VAL:HG22	1:N:85:PRO:O	2.17	0.44
1:O:163:ALA:O	1:O:166:GLU:HB3	2.18	0.44
1:P:315:TYR:O	1:P:318:THR:HG22	2.17	0.44
1:D:325:ILE:HD12	1:D:325:ILE:H	1.82	0.44
1:D:46:LEU:HD23	1:D:46:LEU:HA	1.58	0.44
1:E:320:PRO:O	1:E:321:ILE:HG12	2.17	0.44
1:E:46:LEU:HD23	1:E:46:LEU:HA	1.58	0.44
1:F:102:ILE:HD11	1:F:104:TYR:CE2	2.48	0.44
1:F:325:ILE:HD12	1:F:325:ILE:H	1.82	0.44
1:G:143:TYR:CD1	1:H:152:ARG:HD2	2.53	0.44
1:H:89:GLN:O	1:H:90:LEU:HD23	2.17	0.44
1:I:315:TYR:O	1:I:318:THR:HG22	2.17	0.44
1:I:320:PRO:O	1:I:321:ILE:HG12	2.17	0.44
1:I:82:TYR:O	1:I:246:VAL:HB	2.18	0.44
1:K:143:TYR:CD1	1:L:152:ARG:HD2	2.53	0.44
1:K:45:LEU:O	1:K:48:SER:HB3	2.18	0.44
1:M:179:LEU:CD2	1:N:352:ILE:HA	2.48	0.44
1:A:261:ASP:HB3	1:I:259:GLN:HE22	1.83	0.44
1:B:292:THR:O	1:B:295:CYS:N	2.50	0.44
1:C:315:TYR:O	1:C:318:THR:HG22	2.17	0.44
1:E:45:LEU:O	1:E:48:SER:HB3	2.18	0.44
1:E:82:TYR:O	1:E:246:VAL:HB	2.18	0.44
1:F:46:LEU:HA	1:F:46:LEU:HD23	1.58	0.44
1:G:108:VAL:HG11	1:G:273:TYR:CE1	2.52	0.44
1:H:315:TYR:O	1:H:318:THR:HG22	2.17	0.44
1:K:315:TYR:O	1:K:318:THR:HG22	2.17	0.44
1:L:325:ILE:HD12	1:L:325:ILE:H	1.82	0.44
1:M:173:ILE:HA	1:M:173:ILE:HD13	1.77	0.44
1:M:186:ARG:NH1	1:M:336:GLU:OE2	2.49	0.44
1:O:211:THR:HG23	1:O:220:THR:OG1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:102:ILE:HD11	1:P:104:TYR:CE2	2.48	0.44
1:A:45:LEU:O	1:A:48:SER:HB3	2.18	0.43
1:C:320:PRO:O	1:C:321:ILE:HG12	2.17	0.43
1:E:211:THR:HG23	1:E:220:THR:OG1	2.18	0.43
1:E:259:GLN:HE22	1:M:261:ASP:HB3	1.82	0.43
1:H:211:THR:HG23	1:H:220:THR:OG1	2.18	0.43
1:I:108:VAL:HG11	1:I:273:TYR:CE1	2.52	0.43
1:J:211:THR:HG23	1:J:220:THR:OG1	2.18	0.43
1:J:315:TYR:O	1:J:318:THR:HG22	2.17	0.43
1:J:325:ILE:HD12	1:J:325:ILE:H	1.82	0.43
1:J:45:LEU:O	1:J:48:SER:HB3	2.18	0.43
1:L:292:THR:O	1:L:295:CYS:N	2.50	0.43
1:M:108:VAL:HG11	1:M:273:TYR:CE1	2.52	0.43
1:M:315:TYR:O	1:M:318:THR:HG22	2.17	0.43
1:N:325:ILE:HD12	1:N:325:ILE:H	1.82	0.43
1:O:186:ARG:NH1	1:O:336:GLU:OE2	2.49	0.43
1:O:45:LEU:O	1:O:48:SER:HB3	2.18	0.43
1:P:325:ILE:H	1:P:325:ILE:HD12	1.82	0.43
1:A:259:GLN:HE22	1:I:261:ASP:HB3	1.83	0.43
1:A:315:TYR:O	1:A:318:THR:HG22	2.17	0.43
1:B:211:THR:HG23	1:B:220:THR:OG1	2.18	0.43
1:C:108:VAL:HG11	1:C:273:TYR:CE1	2.52	0.43
1:C:82:TYR:O	1:C:246:VAL:HB	2.18	0.43
1:F:186:ARG:NH1	1:F:336:GLU:OE2	2.49	0.43
1:F:45:LEU:O	1:F:48:SER:HB3	2.18	0.43
1:H:45:LEU:O	1:H:48:SER:HB3	2.18	0.43
1:I:103:GLN:HG3	1:I:103:GLN:O	2.17	0.43
1:J:68:TRP:CD1	1:J:68:TRP:N	2.86	0.43
1:L:211:THR:HG23	1:L:220:THR:OG1	2.18	0.43
1:O:82:TYR:O	1:O:246:VAL:HB	2.18	0.43
1:O:146:ARG:NH2	1:P:152:ARG:HE	2.15	0.43
1:P:186:ARG:NH1	1:P:336:GLU:OE2	2.49	0.43
1:P:45:LEU:O	1:P:48:SER:HB3	2.18	0.43
1:H:68:TRP:CD1	1:H:68:TRP:N	2.86	0.43
1:J:253:ARG:NH2	1:K:90:LEU:HG	2.32	0.43
1:K:102:ILE:HD11	1:K:104:TYR:CE2	2.48	0.43
1:K:325:ILE:HD12	1:K:325:ILE:H	1.82	0.43
1:M:82:TYR:O	1:M:246:VAL:HB	2.18	0.43
1:N:68:TRP:CD1	1:N:68:TRP:N	2.85	0.43
1:P:82:TYR:O	1:P:246:VAL:HB	2.18	0.43
1:A:325:ILE:HD12	1:A:325:ILE:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:82:TYR:O	1:B:246:VAL:HB	2.18	0.43
1:C:214:LEU:HD23	1:C:214:LEU:HA	1.76	0.43
1:D:267:LEU:HD12	1:D:267:LEU:HA	1.67	0.43
1:D:68:TRP:CD1	1:D:68:TRP:N	2.85	0.43
1:D:89:GLN:CG	1:D:90:LEU:H	2.23	0.43
1:E:292:THR:O	1:E:295:CYS:N	2.50	0.43
1:G:103:GLN:HG3	1:G:103:GLN:O	2.17	0.43
1:G:236:TRP:CD1	1:G:243:PRO:HA	2.47	0.43
1:G:292:THR:O	1:G:295:CYS:N	2.50	0.43
1:G:186:ARG:NH1	1:G:336:GLU:OE2	2.49	0.43
1:H:213:LEU:HD23	1:H:214:LEU:N	2.34	0.43
1:H:186:ARG:NH1	1:H:336:GLU:OE2	2.49	0.43
1:I:186:ARG:NH1	1:I:336:GLU:OE2	2.49	0.43
1:J:213:LEU:HD23	1:J:214:LEU:N	2.34	0.43
1:J:186:ARG:NH1	1:J:336:GLU:OE2	2.49	0.43
1:L:68:TRP:N	1:L:68:TRP:CD1	2.85	0.43
1:L:82:TYR:O	1:L:246:VAL:HB	2.18	0.43
1:M:320:PRO:O	1:M:321:ILE:HG12	2.17	0.43
1:M:146:ARG:NH2	1:N:152:ARG:HE	2.16	0.43
1:O:143:TYR:CD1	1:P:152:ARG:HD2	2.53	0.43
1:A:102:ILE:HD11	1:A:104:TYR:CE2	2.48	0.43
1:B:45:LEU:O	1:B:48:SER:HB3	2.18	0.43
1:B:68:TRP:CD1	1:B:68:TRP:N	2.85	0.43
1:C:211:THR:HG23	1:C:220:THR:OG1	2.18	0.43
1:C:261:ASP:HB3	1:O:259:GLN:HE22	1.83	0.43
1:D:236:TRP:CD1	1:D:243:PRO:HA	2.47	0.43
1:C:179:LEU:CD2	1:D:352:ILE:HA	2.48	0.43
1:D:82:TYR:O	1:D:246:VAL:HB	2.18	0.43
1:E:325:ILE:H	1:E:325:ILE:HD12	1.82	0.43
1:F:143:TYR:CD1	1:G:152:ARG:HD2	2.54	0.43
1:F:82:TYR:O	1:F:246:VAL:HB	2.18	0.43
1:G:163:ALA:O	1:G:166:GLU:HB3	2.18	0.43
1:G:213:LEU:HD23	1:G:214:LEU:N	2.34	0.43
1:H:325:ILE:HD12	1:H:325:ILE:H	1.82	0.43
1:I:158:PHE:CZ	1:P:168:ARG:HG3	2.53	0.43
1:I:292:THR:O	1:I:295:CYS:N	2.50	0.43
1:I:298:TRP:HA	1:I:301:TYR:HB3	2.01	0.43
1:J:168:ARG:HG3	1:K:158:PHE:CE2	2.53	0.43
1:L:146:ARG:NH2	1:M:152:ARG:HE	2.16	0.43
1:N:82:TYR:O	1:N:246:VAL:HB	2.18	0.43
1:O:168:ARG:HG3	1:P:158:PHE:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:292:THR:O	1:O:295:CYS:N	2.50	0.43
1:P:163:ALA:O	1:P:166:GLU:HB3	2.18	0.43
1:B:143:TYR:CD1	1:C:152:ARG:HD2	2.54	0.43
1:F:151:ASN:OD1	1:F:152:ARG:N	2.52	0.43
1:F:163:ALA:O	1:F:166:GLU:HB3	2.18	0.43
1:G:298:TRP:HA	1:G:301:TYR:HB3	2.01	0.43
1:I:213:LEU:HD23	1:I:214:LEU:N	2.34	0.43
1:I:75:TYR:CD2	1:I:75:TYR:C	2.92	0.43
1:L:45:LEU:O	1:L:48:SER:HB3	2.18	0.43
1:M:211:THR:HG23	1:M:220:THR:OG1	2.18	0.43
1:N:83:PHE:CG	1:N:84:VAL:N	2.87	0.43
1:N:89:GLN:CG	1:N:90:LEU:H	2.23	0.43
1:O:325:ILE:H	1:O:325:ILE:HD12	1.82	0.43
1:A:168:ARG:HG3	1:B:158:PHE:CZ	2.53	0.43
1:C:151:ASN:OD1	1:C:152:ARG:N	2.52	0.43
1:D:275:LYS:HD3	1:D:275:LYS:HA	1.70	0.43
1:D:83:PHE:CG	1:D:84:VAL:N	2.87	0.43
1:E:146:ARG:NH2	1:F:152:ARG:HE	2.16	0.43
1:F:298:TRP:HA	1:F:301:TYR:HB3	2.01	0.43
1:G:146:ARG:NH2	1:H:152:ARG:HE	2.16	0.43
1:G:151:ASN:OD1	1:G:152:ARG:N	2.52	0.43
1:G:211:THR:HG23	1:G:220:THR:OG1	2.18	0.43
1:G:75:TYR:C	1:G:75:TYR:CD2	2.92	0.43
1:I:151:ASN:OD1	1:I:152:ARG:N	2.52	0.43
1:I:163:ALA:O	1:I:166:GLU:HB3	2.18	0.43
1:I:236:TRP:CD1	1:I:243:PRO:HA	2.47	0.43
1:L:75:TYR:CD2	1:L:75:TYR:C	2.92	0.43
1:N:146:ARG:NH2	1:O:152:ARG:HE	2.16	0.43
1:O:213:LEU:HD23	1:O:214:LEU:N	2.34	0.43
1:O:219:TYR:HD1	1:O:220:THR:H	1.67	0.43
1:O:46:LEU:HA	1:O:46:LEU:HD23	1.58	0.43
1:P:151:ASN:OD1	1:P:152:ARG:N	2.52	0.43
1:P:213:LEU:HD23	1:P:214:LEU:N	2.34	0.43
1:P:211:THR:HG23	1:P:220:THR:OG1	2.18	0.43
1:A:82:TYR:O	1:A:246:VAL:HB	2.18	0.43
1:B:186:ARG:NH1	1:B:336:GLU:OE2	2.49	0.43
1:B:75:TYR:C	1:B:75:TYR:CD2	2.92	0.43
1:B:146:ARG:NH2	1:C:152:ARG:HE	2.17	0.43
1:C:174:TRP:HE3	1:C:361:MET:CE	2.32	0.43
1:C:68:TRP:CD1	1:C:68:TRP:N	2.86	0.43
1:E:143:TYR:CD1	1:F:152:ARG:HD2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:146:ARG:NH2	1:E:152:ARG:HE	2.16	0.43
1:E:168:ARG:HG3	1:F:158:PHE:CZ	2.54	0.43
1:E:213:LEU:HD23	1:E:214:LEU:N	2.34	0.43
1:E:337:ASP:O	1:E:341:ILE:HG23	2.19	0.43
1:E:83:PHE:CG	1:E:84:VAL:N	2.87	0.43
1:F:174:TRP:HE3	1:F:361:MET:CE	2.32	0.43
1:F:213:LEU:HD23	1:F:214:LEU:N	2.34	0.43
1:G:168:ARG:HG3	1:H:158:PHE:CZ	2.54	0.43
1:G:83:PHE:CG	1:G:84:VAL:N	2.87	0.43
1:H:174:TRP:HE3	1:H:361:MET:CE	2.32	0.43
1:I:146:ARG:NH2	1:J:152:ARG:HE	2.16	0.43
1:I:211:THR:HG23	1:I:220:THR:OG1	2.18	0.43
1:I:352:ILE:HA	1:P:179:LEU:CD2	2.48	0.43
1:I:83:PHE:CG	1:I:84:VAL:N	2.87	0.43
1:J:174:TRP:HE3	1:J:361:MET:CE	2.32	0.43
1:M:151:ASN:OD1	1:M:152:ARG:N	2.52	0.43
1:M:174:TRP:HE3	1:M:361:MET:CE	2.32	0.43
1:N:213:LEU:HD23	1:N:214:LEU:N	2.34	0.43
1:A:213:LEU:HD23	1:A:214:LEU:N	2.34	0.43
1:A:283:TRP:O	1:A:287:VAL:HG23	2.19	0.43
1:C:143:TYR:CD1	1:D:152:ARG:HD2	2.53	0.43
1:D:174:TRP:HE3	1:D:361:MET:CE	2.32	0.43
1:D:213:LEU:HD23	1:D:214:LEU:N	2.34	0.43
1:E:151:ASN:OD1	1:E:152:ARG:N	2.52	0.43
1:F:219:TYR:HD1	1:F:220:THR:H	1.67	0.43
1:F:211:THR:HG23	1:F:220:THR:OG1	2.18	0.43
1:G:89:GLN:O	1:G:90:LEU:HD23	2.17	0.43
1:H:283:TRP:O	1:H:287:VAL:HG23	2.19	0.43
1:I:283:TRP:O	1:I:287:VAL:HG23	2.19	0.43
1:I:89:GLN:O	1:I:90:LEU:HD23	2.17	0.43
1:J:283:TRP:O	1:J:287:VAL:HG23	2.19	0.43
1:K:168:ARG:HG3	1:L:158:PHE:CZ	2.54	0.43
1:K:213:LEU:HD23	1:K:214:LEU:N	2.34	0.43
1:L:143:TYR:CD1	1:M:152:ARG:HD2	2.54	0.43
1:M:68:TRP:CD1	1:M:68:TRP:N	2.85	0.43
1:N:174:TRP:HE3	1:N:361:MET:CE	2.32	0.43
1:O:151:ASN:OD1	1:O:152:ARG:N	2.52	0.43
1:O:337:ASP:O	1:O:341:ILE:HG23	2.19	0.43
1:O:68:TRP:N	1:O:68:TRP:CD1	2.86	0.43
1:O:83:PHE:CG	1:O:84:VAL:N	2.87	0.43
1:P:298:TRP:HA	1:P:301:TYR:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:174:TRP:HE3	1:P:361:MET:CE	2.32	0.43
1:D:151:ASN:OD1	1:D:152:ARG:N	2.52	0.43
1:D:337:ASP:O	1:D:341:ILE:HG23	2.19	0.43
1:E:219:TYR:HD1	1:E:220:THR:H	1.67	0.43
1:J:130:ILE:HA	1:J:130:ILE:HD12	1.84	0.43
1:J:173:ILE:HD13	1:J:173:ILE:HA	1.77	0.43
1:K:82:TYR:O	1:K:246:VAL:HB	2.18	0.43
1:K:283:TRP:O	1:K:287:VAL:HG23	2.19	0.43
1:L:186:ARG:NH1	1:L:336:GLU:OE2	2.49	0.43
1:N:211:THR:HG23	1:N:220:THR:OG1	2.18	0.43
1:N:337:ASP:O	1:N:341:ILE:HG23	2.19	0.43
1:P:219:TYR:HD1	1:P:220:THR:H	1.67	0.43
1:A:211:THR:HG23	1:A:220:THR:OG1	2.18	0.42
1:A:179:LEU:CD2	1:B:352:ILE:HA	2.48	0.42
1:E:174:TRP:HE3	1:E:361:MET:CE	2.32	0.42
1:E:68:TRP:N	1:E:68:TRP:CD1	2.86	0.42
1:F:43:SER:HB2	1:F:112:PHE:HB3	2.01	0.42
1:F:68:TRP:N	1:F:68:TRP:CD1	2.86	0.42
1:G:219:TYR:HD1	1:G:220:THR:H	1.67	0.42
1:G:283:TRP:O	1:G:287:VAL:HG23	2.19	0.42
1:G:174:TRP:HE3	1:G:361:MET:CE	2.32	0.42
1:A:152:ARG:HE	1:H:146:ARG:NH2	2.17	0.42
1:H:151:ASN:OD1	1:H:152:ARG:N	2.52	0.42
1:I:174:TRP:HE3	1:I:361:MET:CE	2.32	0.42
1:I:45:LEU:O	1:I:48:SER:HB3	2.18	0.42
1:J:151:ASN:OD1	1:J:152:ARG:N	2.52	0.42
1:J:292:THR:O	1:J:295:CYS:N	2.50	0.42
1:N:151:ASN:OD1	1:N:152:ARG:N	2.52	0.42
1:M:143:TYR:CD1	1:N:152:ARG:HD2	2.53	0.42
1:N:267:LEU:HD12	1:N:267:LEU:HA	1.67	0.42
1:O:174:TRP:HE3	1:O:361:MET:CE	2.32	0.42
1:A:219:TYR:HD1	1:A:220:THR:N	2.17	0.42
1:B:83:PHE:CG	1:B:84:VAL:N	2.87	0.42
1:D:211:THR:HG23	1:D:220:THR:OG1	2.18	0.42
1:D:143:TYR:CD1	1:E:152:ARG:HD2	2.54	0.42
1:F:337:ASP:O	1:F:341:ILE:HG23	2.19	0.42
1:G:337:ASP:O	1:G:341:ILE:HG23	2.19	0.42
1:G:43:SER:HB2	1:G:112:PHE:HB3	2.02	0.42
1:H:292:THR:O	1:H:295:CYS:N	2.50	0.42
1:I:219:TYR:HD1	1:I:220:THR:H	1.67	0.42
1:I:337:ASP:O	1:I:341:ILE:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:43:SER:HB2	1:I:112:PHE:HB3	2.01	0.42
1:M:154:LYS:HE2	1:M:154:LYS:HB3	1.87	0.42
1:N:219:TYR:HD1	1:N:220:THR:H	1.67	0.42
1:P:337:ASP:O	1:P:341:ILE:HG23	2.19	0.42
1:P:75:TYR:CD2	1:P:75:TYR:C	2.92	0.42
1:C:168:ARG:HG3	1:D:158:PHE:CZ	2.54	0.42
1:E:69:VAL:HA	1:E:72:VAL:HG12	2.01	0.42
1:F:75:TYR:C	1:F:75:TYR:CD2	2.92	0.42
1:G:45:LEU:O	1:G:48:SER:HB3	2.18	0.42
1:H:43:SER:HB2	1:H:112:PHE:HB3	2.02	0.42
1:I:69:VAL:HA	1:I:72:VAL:HG12	2.01	0.42
1:I:143:TYR:CD1	1:J:152:ARG:HD2	2.55	0.42
1:K:211:THR:HG23	1:K:220:THR:OG1	2.18	0.42
1:K:214:LEU:HA	1:K:214:LEU:HD23	1.76	0.42
1:K:219:TYR:HD1	1:K:220:THR:N	2.17	0.42
1:L:83:PHE:CG	1:L:84:VAL:N	2.87	0.42
1:O:69:VAL:HA	1:O:72:VAL:HG12	2.01	0.42
1:P:283:TRP:O	1:P:287:VAL:HG23	2.19	0.42
1:P:43:SER:HB2	1:P:112:PHE:HB3	2.02	0.42
1:P:68:TRP:N	1:P:68:TRP:CD1	2.86	0.42
1:A:292:THR:O	1:A:295:CYS:N	2.50	0.42
1:E:43:SER:HB2	1:E:112:PHE:HB3	2.02	0.42
1:F:168:ARG:HG3	1:G:158:PHE:CZ	2.54	0.42
1:F:283:TRP:O	1:F:287:VAL:HG23	2.19	0.42
1:G:69:VAL:HA	1:G:72:VAL:HG12	2.01	0.42
1:J:337:ASP:O	1:J:341:ILE:HG23	2.19	0.42
1:J:82:TYR:O	1:J:246:VAL:HB	2.18	0.42
1:L:151:ASN:OD1	1:L:152:ARG:N	2.52	0.42
1:M:168:ARG:HG3	1:N:158:PHE:CZ	2.54	0.42
1:O:219:TYR:HD1	1:O:220:THR:N	2.17	0.42
1:O:43:SER:HB2	1:O:112:PHE:HB3	2.02	0.42
1:B:151:ASN:OD1	1:B:152:ARG:N	2.52	0.42
1:C:154:LYS:HB3	1:C:154:LYS:HE2	1.87	0.42
1:D:219:TYR:HD1	1:D:220:THR:H	1.67	0.42
1:G:165:PHE:O	1:G:169:PRO:HD2	2.20	0.42
1:F:179:LEU:CD2	1:G:352:ILE:HA	2.48	0.42
1:H:173:ILE:HA	1:H:173:ILE:HD13	1.77	0.42
1:H:337:ASP:O	1:H:341:ILE:HG23	2.19	0.42
1:H:82:TYR:O	1:H:246:VAL:HB	2.18	0.42
1:I:165:PHE:O	1:I:169:PRO:HD2	2.20	0.42
1:J:43:SER:HB2	1:J:112:PHE:HB3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:292:THR:O	1:K:295:CYS:N	2.50	0.42
1:M:337:ASP:O	1:M:341:ILE:HG23	2.19	0.42
1:N:275:LYS:HD3	1:N:275:LYS:HA	1.70	0.42
1:O:75:TYR:C	1:O:75:TYR:CD2	2.92	0.42
1:B:168:ARG:HG3	1:C:158:PHE:CZ	2.54	0.42
1:C:337:ASP:O	1:C:341:ILE:HG23	2.19	0.42
1:C:83:PHE:CG	1:C:84:VAL:N	2.87	0.42
1:D:173:ILE:HD13	1:D:173:ILE:HA	1.77	0.42
1:K:174:TRP:HE3	1:K:361:MET:CE	2.32	0.42
1:L:213:LEU:HD23	1:L:214:LEU:N	2.34	0.42
1:L:331:PHE:HD1	1:L:331:PHE:HA	1.72	0.42
1:N:75:TYR:C	1:N:75:TYR:CD2	2.92	0.42
1:P:83:PHE:CG	1:P:84:VAL:N	2.87	0.42
1:A:165:PHE:O	1:A:169:PRO:HD2	2.20	0.42
1:A:298:TRP:HA	1:A:301:TYR:HB3	2.01	0.42
1:A:174:TRP:HE3	1:A:361:MET:CE	2.32	0.42
1:B:165:PHE:O	1:B:169:PRO:HD2	2.20	0.42
1:B:213:LEU:HD23	1:B:214:LEU:N	2.34	0.42
1:B:283:TRP:O	1:B:287:VAL:HG23	2.19	0.42
1:D:298:TRP:HA	1:D:301:TYR:HB3	2.01	0.42
1:E:219:TYR:HD1	1:E:220:THR:N	2.17	0.42
1:E:323:SER:OG	1:E:324:THR:N	2.53	0.42
1:E:75:TYR:CD2	1:E:75:TYR:C	2.92	0.42
1:F:323:SER:OG	1:F:324:THR:N	2.53	0.42
1:F:83:PHE:CG	1:F:84:VAL:N	2.87	0.42
1:F:146:ARG:NH2	1:G:152:ARG:HE	2.16	0.42
1:G:68:TRP:N	1:G:68:TRP:CD1	2.86	0.42
1:H:165:PHE:O	1:H:169:PRO:HD2	2.20	0.42
1:I:275:LYS:HG3	1:P:110:TYR:CD2	2.54	0.42
1:J:165:PHE:O	1:J:169:PRO:HD2	2.20	0.42
1:L:165:PHE:O	1:L:169:PRO:HD2	2.20	0.42
1:L:174:TRP:HE3	1:L:361:MET:CE	2.32	0.42
1:L:98:THR:HG22	1:L:98:THR:O	2.20	0.42
1:O:323:SER:OG	1:O:324:THR:N	2.53	0.42
1:P:267:LEU:HD12	1:P:267:LEU:HA	1.67	0.42
1:P:323:SER:OG	1:P:324:THR:N	2.53	0.42
1:A:151:ASN:OD1	1:A:152:ARG:N	2.52	0.42
1:A:337:ASP:O	1:A:341:ILE:HG23	2.19	0.42
1:A:83:PHE:CG	1:A:84:VAL:N	2.87	0.42
1:B:298:TRP:HA	1:B:301:TYR:HB3	2.01	0.42
1:B:174:TRP:HE3	1:B:361:MET:CE	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:98:THR:HG22	1:B:98:THR:O	2.20	0.42
1:C:98:THR:HG22	1:C:98:THR:O	2.20	0.42
1:D:43:SER:HB2	1:D:112:PHE:HB3	2.01	0.42
1:D:75:TYR:C	1:D:75:TYR:CD2	2.92	0.42
1:D:110:TYR:CD2	1:E:275:LYS:HG3	2.55	0.42
1:E:298:TRP:HA	1:E:301:TYR:HB3	2.01	0.42
1:F:236:TRP:CD1	1:F:237:GLN:N	2.88	0.42
1:G:236:TRP:CD1	1:G:237:GLN:N	2.88	0.42
1:H:236:TRP:CD1	1:H:237:GLN:N	2.88	0.42
1:I:152:ARG:HE	1:P:146:ARG:NH2	2.16	0.42
1:I:236:TRP:CD1	1:I:237:GLN:N	2.88	0.42
1:J:219:TYR:HD1	1:J:220:THR:H	1.67	0.42
1:J:236:TRP:CD1	1:J:237:GLN:N	2.88	0.42
1:K:151:ASN:OD1	1:K:152:ARG:N	2.52	0.42
1:K:165:PHE:O	1:K:169:PRO:HD2	2.20	0.42
1:K:298:TRP:HA	1:K:301:TYR:HB3	2.01	0.42
1:L:298:TRP:HA	1:L:301:TYR:HB3	2.01	0.42
1:M:298:TRP:HA	1:M:301:TYR:HB3	2.01	0.42
1:M:83:PHE:CG	1:M:84:VAL:N	2.87	0.42
1:N:114:LEU:HD12	1:N:114:LEU:HA	1.84	0.42
1:N:283:TRP:O	1:N:287:VAL:HG23	2.19	0.42
1:O:298:TRP:HA	1:O:301:TYR:HB3	2.01	0.42
1:P:165:PHE:O	1:P:169:PRO:HD2	2.20	0.42
1:P:236:TRP:CD1	1:P:237:GLN:N	2.88	0.42
1:A:43:SER:HB2	1:A:112:PHE:HB3	2.02	0.42
1:A:46:LEU:HA	1:A:46:LEU:HD23	1.58	0.42
1:C:298:TRP:HA	1:C:301:TYR:HB3	2.01	0.42
1:D:283:TRP:O	1:D:287:VAL:HG23	2.19	0.42
1:E:283:TRP:O	1:E:287:VAL:HG23	2.19	0.42
1:F:165:PHE:O	1:F:169:PRO:HD2	2.20	0.42
1:G:323:SER:OG	1:G:324:THR:N	2.53	0.42
1:H:219:TYR:HD1	1:H:220:THR:H	1.67	0.42
1:I:323:SER:OG	1:I:324:THR:N	2.53	0.42
1:I:68:TRP:N	1:I:68:TRP:CD1	2.86	0.42
1:J:219:TYR:HD1	1:J:220:THR:N	2.17	0.42
1:K:337:ASP:O	1:K:341:ILE:HG23	2.19	0.42
1:K:69:VAL:HA	1:K:72:VAL:HG12	2.01	0.42
1:K:83:PHE:CG	1:K:84:VAL:N	2.87	0.42
1:L:283:TRP:O	1:L:287:VAL:HG23	2.19	0.42
1:L:337:ASP:O	1:L:341:ILE:HG23	2.19	0.42
1:L:43:SER:HB2	1:L:112:PHE:HB3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:69:VAL:HA	1:L:72:VAL:HG12	2.01	0.42
1:M:283:TRP:O	1:M:287:VAL:HG23	2.19	0.42
1:M:98:THR:HG22	1:M:98:THR:O	2.20	0.42
1:N:298:TRP:HA	1:N:301:TYR:HB3	2.01	0.42
1:N:43:SER:HB2	1:N:112:PHE:HB3	2.02	0.42
1:N:143:TYR:CD1	1:O:152:ARG:HD2	2.54	0.42
1:O:283:TRP:O	1:O:287:VAL:HG23	2.19	0.42
1:O:98:THR:HG22	1:O:98:THR:O	2.20	0.42
1:P:277:PHE:HA	1:P:277:PHE:HD1	1.71	0.42
1:A:173:ILE:HA	1:A:173:ILE:HD13	1.77	0.42
1:A:69:VAL:HA	1:A:72:VAL:HG12	2.01	0.42
1:B:219:TYR:HD1	1:B:220:THR:N	2.17	0.42
1:B:325:ILE:HG22	1:B:326:SER:O	2.20	0.42
1:B:337:ASP:O	1:B:341:ILE:HG23	2.19	0.42
1:B:43:SER:HB2	1:B:112:PHE:HB3	2.02	0.42
1:B:69:VAL:HA	1:B:72:VAL:HG12	2.01	0.42
1:C:219:TYR:HD1	1:C:220:THR:H	1.67	0.42
1:D:98:THR:O	1:D:98:THR:HG22	2.20	0.42
1:E:236:TRP:CD1	1:E:237:GLN:N	2.88	0.42
1:G:325:ILE:HG22	1:G:326:SER:O	2.20	0.42
1:G:98:THR:O	1:G:98:THR:HG22	2.20	0.42
1:I:325:ILE:HG22	1:I:326:SER:O	2.20	0.42
1:I:98:THR:HG22	1:I:98:THR:O	2.20	0.42
1:J:191:PHE:O	1:J:194:LEU:HB2	2.20	0.42
1:K:43:SER:HB2	1:K:112:PHE:HB3	2.02	0.42
1:L:31:ASN:O	1:L:35:THR:OG1	2.31	0.42
1:L:325:ILE:HG22	1:L:326:SER:O	2.20	0.42
1:L:168:ARG:HG3	1:M:158:PHE:CZ	2.55	0.42
1:M:213:LEU:HD23	1:M:214:LEU:N	2.34	0.42
1:M:219:TYR:HD1	1:M:220:THR:H	1.67	0.42
1:N:98:THR:O	1:N:98:THR:HG22	2.20	0.42
1:O:236:TRP:CD1	1:O:237:GLN:N	2.88	0.42
1:A:158:PHE:CZ	1:H:168:ARG:HG3	2.56	0.41
1:A:318:THR:HG23	1:A:319:ALA:N	2.27	0.41
1:B:110:TYR:CD2	1:C:275:LYS:HG3	2.55	0.41
1:B:114:LEU:HD12	1:B:114:LEU:HA	1.84	0.41
1:C:283:TRP:O	1:C:287:VAL:HG23	2.19	0.41
1:C:43:SER:HB2	1:C:112:PHE:HB3	2.02	0.41
1:D:323:SER:OG	1:D:324:THR:N	2.53	0.41
1:E:110:TYR:CD2	1:F:275:LYS:HG3	2.55	0.41
1:E:98:THR:HG22	1:E:98:THR:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:277:PHE:HD1	1:F:277:PHE:HA	1.71	0.41
1:G:267:LEU:HD12	1:G:267:LEU:HA	1.67	0.41
1:H:191:PHE:O	1:H:194:LEU:HB2	2.21	0.41
1:H:219:TYR:HD1	1:H:220:THR:N	2.17	0.41
1:J:83:PHE:CG	1:J:84:VAL:N	2.87	0.41
1:K:75:TYR:CD2	1:K:75:TYR:C	2.92	0.41
1:M:277:PHE:HA	1:M:277:PHE:HD1	1.71	0.41
1:M:362:ARG:NH2	1:M:363:ASN:OD1	2.53	0.41
1:M:43:SER:HB2	1:M:112:PHE:HB3	2.02	0.41
1:N:110:TYR:CD2	1:O:275:LYS:HG3	2.55	0.41
1:N:323:SER:OG	1:N:324:THR:N	2.53	0.41
1:A:110:TYR:CD2	1:B:275:LYS:HG3	2.55	0.41
1:A:325:ILE:HG22	1:A:326:SER:O	2.20	0.41
1:B:331:PHE:HD1	1:B:331:PHE:HA	1.72	0.41
1:C:191:PHE:O	1:C:194:LEU:HB2	2.20	0.41
1:C:213:LEU:HD23	1:C:214:LEU:N	2.34	0.41
1:C:219:TYR:HD1	1:C:220:THR:N	2.17	0.41
1:C:362:ARG:NH2	1:C:363:ASN:OD1	2.53	0.41
1:C:69:VAL:HA	1:C:72:VAL:HG12	2.01	0.41
1:D:114:LEU:HD12	1:D:114:LEU:HA	1.84	0.41
1:F:15:ILE:O	1:F:19:PHE:HB2	2.20	0.41
1:F:325:ILE:HG22	1:F:326:SER:O	2.20	0.41
1:A:152:ARG:HD2	1:H:143:TYR:CD1	2.55	0.41
1:H:298:TRP:HA	1:H:301:TYR:HB3	2.01	0.41
1:H:323:SER:OG	1:H:324:THR:N	2.53	0.41
1:I:214:LEU:HD23	1:I:214:LEU:HA	1.76	0.41
1:I:168:ARG:HG3	1:J:158:PHE:CZ	2.55	0.41
1:K:325:ILE:HG22	1:K:326:SER:O	2.20	0.41
1:L:219:TYR:HD1	1:L:220:THR:N	2.17	0.41
1:M:165:PHE:O	1:M:169:PRO:HD2	2.20	0.41
1:M:191:PHE:O	1:M:194:LEU:HB2	2.20	0.41
1:M:219:TYR:HD1	1:M:220:THR:N	2.17	0.41
1:M:325:ILE:HG22	1:M:326:SER:O	2.20	0.41
1:M:69:VAL:HA	1:M:72:VAL:HG12	2.01	0.41
1:N:173:ILE:HD13	1:N:173:ILE:HA	1.77	0.41
1:A:157:LYS:NZ	1:A:160:THR:HG21	2.35	0.41
1:A:75:TYR:C	1:A:75:TYR:CD2	2.92	0.41
1:C:192:TYR:O	1:C:195:SER:N	2.54	0.41
1:C:325:ILE:HG22	1:C:326:SER:O	2.20	0.41
1:E:15:ILE:O	1:E:19:PHE:HB2	2.20	0.41
1:F:267:LEU:HA	1:F:267:LEU:HD12	1.67	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:83:PHE:CG	1:H:84:VAL:N	2.87	0.41
1:J:323:SER:OG	1:J:324:THR:N	2.53	0.41
1:K:157:LYS:NZ	1:K:160:THR:HG21	2.35	0.41
1:K:236:TRP:CD1	1:K:237:GLN:N	2.88	0.41
1:N:191:PHE:O	1:N:194:LEU:HB2	2.21	0.41
1:O:165:PHE:O	1:O:169:PRO:HD2	2.20	0.41
1:O:271:ILE:O	1:O:275:LYS:HG2	2.20	0.41
1:P:15:ILE:O	1:P:19:PHE:HB2	2.20	0.41
1:P:325:ILE:HG22	1:P:326:SER:O	2.20	0.41
1:A:15:ILE:O	1:A:19:PHE:HB2	2.20	0.41
1:A:191:PHE:O	1:A:194:LEU:HB2	2.21	0.41
1:A:219:TYR:HD1	1:A:220:THR:H	1.67	0.41
1:A:236:TRP:CD1	1:A:237:GLN:N	2.88	0.41
1:B:191:PHE:O	1:B:194:LEU:HB2	2.21	0.41
1:C:165:PHE:O	1:C:169:PRO:HD2	2.20	0.41
1:C:277:PHE:HA	1:C:277:PHE:HD1	1.71	0.41
1:D:191:PHE:O	1:D:194:LEU:HB2	2.21	0.41
1:D:106:GLN:C	1:E:275:LYS:HZ1	2.20	0.41
1:F:157:LYS:NZ	1:F:160:THR:HG21	2.35	0.41
1:F:192:TYR:O	1:F:195:SER:N	2.54	0.41
1:G:191:PHE:O	1:G:194:LEU:HB2	2.21	0.41
1:I:157:LYS:NZ	1:I:160:THR:HG21	2.35	0.41
1:J:298:TRP:HA	1:J:301:TYR:HB3	2.01	0.41
1:K:15:ILE:O	1:K:19:PHE:HB2	2.21	0.41
1:K:191:PHE:O	1:K:194:LEU:HB2	2.21	0.41
1:K:219:TYR:HD1	1:K:220:THR:H	1.67	0.41
1:L:191:PHE:O	1:L:194:LEU:HB2	2.21	0.41
1:M:192:TYR:O	1:M:195:SER:N	2.54	0.41
1:M:110:TYR:CD2	1:N:275:LYS:HG3	2.55	0.41
1:N:325:ILE:HG22	1:N:326:SER:O	2.20	0.41
1:O:110:TYR:CD2	1:P:275:LYS:HG3	2.55	0.41
1:P:192:TYR:O	1:P:195:SER:N	2.54	0.41
1:A:98:THR:HG22	1:A:98:THR:O	2.20	0.41
1:B:219:TYR:HD1	1:B:220:THR:H	1.67	0.41
1:B:236:TRP:CD1	1:B:237:GLN:N	2.88	0.41
1:B:329:GLN:O	1:B:332:SER:N	2.53	0.41
1:D:325:ILE:HG22	1:D:326:SER:O	2.20	0.41
1:D:362:ARG:NH2	1:D:363:ASN:OD1	2.53	0.41
1:E:165:PHE:O	1:E:169:PRO:HD2	2.20	0.41
1:E:271:ILE:O	1:E:275:LYS:HG2	2.20	0.41
1:E:277:PHE:HD1	1:E:277:PHE:HA	1.71	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:157:LYS:NZ	1:G:160:THR:HG21	2.35	0.41
1:H:362:ARG:NH2	1:H:363:ASN:OD1	2.53	0.41
1:J:362:ARG:NH2	1:J:363:ASN:OD1	2.53	0.41
1:K:271:ILE:O	1:K:275:LYS:HG2	2.20	0.41
1:L:114:LEU:HD12	1:L:114:LEU:HA	1.84	0.41
1:L:236:TRP:CD1	1:L:237:GLN:N	2.88	0.41
1:L:329:GLN:O	1:L:332:SER:N	2.53	0.41
1:M:292:THR:O	1:M:295:CYS:HB3	2.21	0.41
1:N:271:ILE:O	1:N:275:LYS:HG2	2.20	0.41
1:N:362:ARG:NH2	1:N:363:ASN:OD1	2.53	0.41
1:O:15:ILE:O	1:O:19:PHE:HB2	2.21	0.41
1:O:277:PHE:HA	1:O:277:PHE:HD1	1.71	0.41
1:O:362:ARG:NH2	1:O:363:ASN:OD1	2.53	0.41
1:P:157:LYS:NZ	1:P:160:THR:HG21	2.35	0.41
1:P:271:ILE:O	1:P:275:LYS:HG2	2.20	0.41
1:A:271:ILE:O	1:A:275:LYS:HG2	2.20	0.41
1:A:362:ARG:NH2	1:A:363:ASN:OD1	2.53	0.41
1:B:192:TYR:O	1:B:195:SER:N	2.54	0.41
1:C:271:ILE:O	1:C:275:LYS:HG2	2.20	0.41
1:C:292:THR:O	1:C:295:CYS:HB3	2.21	0.41
1:C:329:GLN:O	1:C:332:SER:N	2.53	0.41
1:D:165:PHE:O	1:D:169:PRO:HD2	2.20	0.41
1:D:168:ARG:HG3	1:E:158:PHE:CZ	2.54	0.41
1:D:271:ILE:O	1:D:275:LYS:HG2	2.20	0.41
1:E:362:ARG:NH2	1:E:363:ASN:OD1	2.53	0.41
1:F:110:TYR:CD2	1:G:275:LYS:HG3	2.55	0.41
1:F:191:PHE:O	1:F:194:LEU:HB2	2.21	0.41
1:F:271:ILE:O	1:F:275:LYS:HG2	2.20	0.41
1:F:69:VAL:HA	1:F:72:VAL:HG12	2.01	0.41
1:G:192:TYR:O	1:G:195:SER:N	2.54	0.41
1:H:329:GLN:O	1:H:332:SER:N	2.53	0.41
1:I:191:PHE:O	1:I:194:LEU:HB2	2.21	0.41
1:I:192:TYR:O	1:I:195:SER:N	2.54	0.41
1:I:275:LYS:HZ3	1:P:110:TYR:HD2	1.69	0.41
1:I:329:GLN:O	1:I:332:SER:N	2.53	0.41
1:J:69:VAL:HA	1:J:72:VAL:HG12	2.01	0.41
1:J:98:THR:HG22	1:J:98:THR:O	2.20	0.41
1:K:362:ARG:NH2	1:K:363:ASN:OD1	2.53	0.41
1:K:46:LEU:HD23	1:K:46:LEU:HA	1.58	0.41
1:L:219:TYR:HD1	1:L:220:THR:H	1.67	0.41
1:M:329:GLN:O	1:M:332:SER:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:165:PHE:O	1:N:169:PRO:HD2	2.20	0.41
1:O:157:LYS:NZ	1:O:160:THR:HG21	2.35	0.41
1:A:46:LEU:HD13	1:A:273:TYR:CE1	2.44	0.41
1:B:173:ILE:HA	1:B:173:ILE:HD13	1.77	0.41
1:B:271:ILE:O	1:B:275:LYS:HG2	2.20	0.41
1:D:110:TYR:HD2	1:E:275:LYS:NZ	2.19	0.41
1:D:157:LYS:NZ	1:D:160:THR:HG21	2.35	0.41
1:D:239:THR:HB	1:D:241:HIS:ND1	2.36	0.41
1:C:110:TYR:CD2	1:D:275:LYS:HG3	2.56	0.41
1:D:292:THR:O	1:D:295:CYS:HB3	2.21	0.41
1:E:157:LYS:NZ	1:E:160:THR:HG21	2.35	0.41
1:D:179:LEU:CD2	1:E:352:ILE:HA	2.48	0.41
1:F:112:PHE:O	1:F:115:GLN:HB2	2.21	0.41
1:F:239:THR:HB	1:F:241:HIS:ND1	2.36	0.41
1:F:98:THR:O	1:F:98:THR:HG22	2.20	0.41
1:G:214:LEU:HD23	1:G:214:LEU:HA	1.76	0.41
1:G:82:TYR:HE2	1:G:249:ASP:OD2	2.04	0.41
1:G:329:GLN:O	1:G:332:SER:N	2.53	0.41
1:H:121:ILE:N	1:H:122:PRO:HD2	2.36	0.41
1:H:157:LYS:NZ	1:H:160:THR:HG21	2.35	0.41
1:H:192:TYR:O	1:H:195:SER:N	2.54	0.41
1:H:239:THR:OG1	1:H:241:HIS:N	2.41	0.41
1:H:98:THR:O	1:H:98:THR:HG22	2.20	0.41
1:I:275:LYS:NZ	1:P:110:TYR:HD2	2.19	0.41
1:J:15:ILE:O	1:J:19:PHE:HB2	2.21	0.41
1:J:325:ILE:HG22	1:J:326:SER:O	2.20	0.41
1:J:329:GLN:O	1:J:332:SER:N	2.53	0.41
1:K:98:THR:O	1:K:98:THR:HG22	2.20	0.41
1:L:192:TYR:O	1:L:195:SER:N	2.54	0.41
1:L:271:ILE:O	1:L:275:LYS:HG2	2.20	0.41
1:M:236:TRP:CD1	1:M:237:GLN:N	2.88	0.41
1:M:271:ILE:O	1:M:275:LYS:HG2	2.20	0.41
1:L:110:TYR:CD2	1:M:275:LYS:HG3	2.55	0.41
1:N:239:THR:HB	1:N:241:HIS:ND1	2.36	0.41
1:N:329:GLN:O	1:N:332:SER:N	2.53	0.41
1:P:112:PHE:O	1:P:115:GLN:HB2	2.21	0.41
1:P:121:ILE:N	1:P:122:PRO:HD2	2.36	0.41
1:P:191:PHE:O	1:P:194:LEU:HB2	2.21	0.41
1:P:239:THR:HB	1:P:241:HIS:ND1	2.36	0.41
1:P:292:THR:O	1:P:295:CYS:HB3	2.21	0.41
1:P:98:THR:HG22	1:P:98:THR:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:275:LYS:HG3	1:H:110:TYR:CD2	2.55	0.41
1:B:157:LYS:NZ	1:B:160:THR:HG21	2.35	0.41
1:C:236:TRP:CD1	1:C:237:GLN:N	2.88	0.41
1:C:323:SER:OG	1:C:324:THR:N	2.53	0.41
1:D:236:TRP:CD1	1:D:237:GLN:N	2.88	0.41
1:D:329:GLN:O	1:D:332:SER:N	2.53	0.41
1:E:292:THR:O	1:E:295:CYS:HB3	2.21	0.41
1:F:121:ILE:N	1:F:122:PRO:HD2	2.36	0.41
1:F:82:TYR:HE2	1:F:249:ASP:OD2	2.04	0.41
1:F:292:THR:O	1:F:295:CYS:HB3	2.21	0.41
1:H:15:ILE:O	1:H:19:PHE:HB2	2.21	0.41
1:H:325:ILE:HG22	1:H:326:SER:O	2.20	0.41
1:H:69:VAL:HA	1:H:72:VAL:HG12	2.01	0.41
1:I:239:THR:OG1	1:I:241:HIS:N	2.41	0.41
1:I:82:TYR:HE2	1:I:249:ASP:OD2	2.04	0.41
1:I:267:LEU:HD12	1:I:267:LEU:HA	1.67	0.41
1:I:271:ILE:O	1:I:275:LYS:HG2	2.20	0.41
1:J:121:ILE:N	1:J:122:PRO:HD2	2.36	0.41
1:J:157:LYS:NZ	1:J:160:THR:HG21	2.35	0.41
1:J:192:TYR:O	1:J:195:SER:N	2.54	0.41
1:M:323:SER:OG	1:M:324:THR:N	2.53	0.41
1:M:75:TYR:CD2	1:M:75:TYR:C	2.92	0.41
1:N:154:LYS:HE2	1:N:154:LYS:HB3	1.87	0.41
1:N:157:LYS:NZ	1:N:160:THR:HG21	2.36	0.41
1:N:292:THR:O	1:N:295:CYS:HB3	2.21	0.41
1:O:292:THR:O	1:O:295:CYS:HB3	2.21	0.41
1:P:239:THR:OG1	1:P:241:HIS:N	2.41	0.41
1:P:69:VAL:HA	1:P:72:VAL:HG12	2.01	0.41
1:A:112:PHE:O	1:A:115:GLN:HB2	2.21	0.41
1:A:323:SER:OG	1:A:324:THR:N	2.53	0.41
1:B:112:PHE:O	1:B:115:GLN:HB2	2.21	0.41
1:D:112:PHE:O	1:D:115:GLN:HB2	2.21	0.41
1:D:192:TYR:O	1:D:195:SER:N	2.54	0.41
1:D:269:LEU:HA	1:D:269:LEU:HD23	1.92	0.41
1:E:121:ILE:N	1:E:122:PRO:HD2	2.36	0.41
1:F:112:PHE:HD1	1:F:112:PHE:HA	1.68	0.41
1:F:362:ARG:NH2	1:F:363:ASN:OD1	2.53	0.41
1:H:292:THR:O	1:H:295:CYS:HB3	2.21	0.41
1:J:292:THR:O	1:J:295:CYS:HB3	2.21	0.41
1:K:106:GLN:C	1:L:275:LYS:HZ1	2.19	0.41
1:N:112:PHE:O	1:N:115:GLN:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:168:ARG:HG3	1:O:158:PHE:CZ	2.55	0.41
1:N:236:TRP:CD1	1:N:237:GLN:N	2.88	0.41
1:O:192:TYR:O	1:O:195:SER:N	2.54	0.41
1:O:239:THR:OG1	1:O:241:HIS:N	2.41	0.41
1:P:82:TYR:HE2	1:P:249:ASP:OD2	2.04	0.41
1:A:186:ARG:NH1	1:A:336:GLU:OE2	2.49	0.41
1:C:75:TYR:C	1:C:75:TYR:CD2	2.92	0.41
1:E:192:TYR:O	1:E:195:SER:N	2.54	0.41
1:G:271:ILE:O	1:G:275:LYS:HG2	2.20	0.41
1:G:292:THR:O	1:G:295:CYS:HB3	2.21	0.41
1:H:112:PHE:O	1:H:115:GLN:HB2	2.21	0.41
1:G:179:LEU:CD2	1:H:352:ILE:HA	2.48	0.41
1:I:292:THR:O	1:I:295:CYS:HB3	2.21	0.41
1:K:112:PHE:O	1:K:115:GLN:HB2	2.21	0.41
1:G:259:GLN:HE22	1:K:261:ASP:HB3	1.86	0.41
1:K:46:LEU:HD13	1:K:273:TYR:CE1	2.44	0.41
1:L:121:ILE:N	1:L:122:PRO:HD2	2.36	0.41
1:M:157:LYS:NZ	1:M:160:THR:HG21	2.36	0.41
1:N:192:TYR:O	1:N:195:SER:N	2.54	0.41
1:O:121:ILE:N	1:O:122:PRO:HD2	2.36	0.41
1:O:325:ILE:HG22	1:O:326:SER:O	2.20	0.41
1:N:179:LEU:CD2	1:O:352:ILE:HA	2.49	0.41
1:P:362:ARG:NH2	1:P:363:ASN:OD1	2.53	0.41
1:A:192:TYR:O	1:A:195:SER:N	2.54	0.41
1:B:121:ILE:N	1:B:122:PRO:HD2	2.36	0.41
1:B:362:ARG:NH2	1:B:363:ASN:OD1	2.53	0.41
1:C:157:LYS:NZ	1:C:160:THR:HG21	2.36	0.41
1:D:69:VAL:HA	1:D:72:VAL:HG12	2.01	0.41
1:E:325:ILE:HG22	1:E:326:SER:O	2.20	0.41
1:F:239:THR:OG1	1:F:241:HIS:N	2.41	0.41
1:G:219:TYR:HD1	1:G:220:THR:N	2.17	0.41
1:J:112:PHE:O	1:J:115:GLN:HB2	2.21	0.41
1:J:271:ILE:O	1:J:275:LYS:HG2	2.20	0.41
1:K:192:TYR:O	1:K:195:SER:N	2.54	0.41
1:K:323:SER:OG	1:K:324:THR:N	2.53	0.41
1:L:112:PHE:O	1:L:115:GLN:HB2	2.21	0.41
1:L:157:LYS:NZ	1:L:160:THR:HG21	2.36	0.41
1:L:323:SER:OG	1:L:324:THR:N	2.53	0.41
1:N:69:VAL:HA	1:N:72:VAL:HG12	2.01	0.41
1:P:112:PHE:HA	1:P:112:PHE:HD1	1.68	0.41
1:B:292:THR:O	1:B:295:CYS:HB3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:323:SER:OG	1:B:324:THR:N	2.53	0.40
1:C:121:ILE:N	1:C:122:PRO:HD2	2.36	0.40
1:G:239:THR:OG1	1:G:241:HIS:N	2.41	0.40
1:G:57:THR:HB	1:G:266:VAL:HG12	2.03	0.40
1:H:271:ILE:O	1:H:275:LYS:HG2	2.20	0.40
1:I:57:THR:HB	1:I:266:VAL:HG12	2.04	0.40
1:I:179:LEU:CD2	1:J:352:ILE:HA	2.48	0.40
1:K:186:ARG:NH1	1:K:336:GLU:OE2	2.49	0.40
1:M:121:ILE:N	1:M:122:PRO:HD2	2.36	0.40
1:N:121:ILE:N	1:N:122:PRO:HD2	2.36	0.40
1:D:154:LYS:HE2	1:D:154:LYS:HB3	1.87	0.40
1:D:31:ASN:O	1:D:35:THR:OG1	2.31	0.40
1:F:318:THR:CG2	1:F:319:ALA:H	2.31	0.40
1:G:15:ILE:O	1:G:19:PHE:HB2	2.21	0.40
1:H:82:TYR:HE2	1:H:249:ASP:OD2	2.04	0.40
1:H:57:THR:HB	1:H:266:VAL:HG12	2.04	0.40
1:K:110:TYR:CD2	1:L:275:LYS:HG3	2.56	0.40
1:K:292:THR:O	1:K:295:CYS:HB3	2.21	0.40
1:L:362:ARG:NH2	1:L:363:ASN:OD1	2.53	0.40
1:M:112:PHE:O	1:M:115:GLN:HB2	2.21	0.40
1:O:191:PHE:O	1:O:194:LEU:HB2	2.21	0.40
1:P:57:THR:HB	1:P:266:VAL:HG12	2.04	0.40
1:A:292:THR:O	1:A:295:CYS:HB3	2.21	0.40
1:A:31:ASN:O	1:A:35:THR:OG1	2.31	0.40
1:A:68:TRP:CD1	1:A:68:TRP:N	2.86	0.40
1:C:112:PHE:O	1:C:115:GLN:HB2	2.21	0.40
1:D:121:ILE:N	1:D:122:PRO:HD2	2.36	0.40
1:E:191:PHE:O	1:E:194:LEU:HB2	2.21	0.40
1:E:239:THR:OG1	1:E:241:HIS:N	2.41	0.40
1:F:329:GLN:O	1:F:332:SER:N	2.53	0.40
1:F:57:THR:HB	1:F:266:VAL:HG12	2.04	0.40
1:G:362:ARG:NH2	1:G:363:ASN:OD1	2.53	0.40
1:I:112:PHE:O	1:I:115:GLN:HB2	2.21	0.40
1:I:15:ILE:O	1:I:19:PHE:HB2	2.21	0.40
1:I:219:TYR:HD1	1:I:220:THR:N	2.17	0.40
1:I:362:ARG:NH2	1:I:363:ASN:OD1	2.53	0.40
1:J:82:TYR:HE2	1:J:249:ASP:OD2	2.04	0.40
1:J:57:THR:HB	1:J:266:VAL:HG12	2.04	0.40
1:K:121:ILE:N	1:K:122:PRO:HD2	2.36	0.40
1:K:172:TYR:CE1	1:L:352:ILE:HD13	2.56	0.40
1:L:82:TYR:HE2	1:L:249:ASP:OD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:292:THR:O	1:L:295:CYS:HB3	2.21	0.40
1:O:112:PHE:O	1:O:115:GLN:HB2	2.21	0.40
1:A:121:ILE:N	1:A:122:PRO:HD2	2.36	0.40
1:C:15:ILE:O	1:C:19:PHE:HB2	2.21	0.40
1:E:112:PHE:O	1:E:115:GLN:HB2	2.21	0.40
1:G:112:PHE:O	1:G:115:GLN:HB2	2.21	0.40
1:I:239:THR:HB	1:I:241:HIS:ND1	2.36	0.40
1:K:68:TRP:N	1:K:68:TRP:CD1	2.86	0.40
1:M:15:ILE:O	1:M:19:PHE:HB2	2.21	0.40
1:N:239:THR:OG1	1:N:241:HIS:N	2.41	0.40
1:O:82:TYR:HE2	1:O:249:ASP:OD2	2.04	0.40
1:P:329:GLN:O	1:P:332:SER:N	2.53	0.40
1:B:82:TYR:HE2	1:B:249:ASP:OD2	2.04	0.40
1:C:82:TYR:HE2	1:C:249:ASP:OD2	2.04	0.40
1:D:149:SER:HA	1:D:152:ARG:NH1	2.37	0.40
1:E:82:TYR:HE2	1:E:249:ASP:OD2	2.04	0.40
1:G:239:THR:HB	1:G:241:HIS:ND1	2.36	0.40
1:I:121:ILE:N	1:I:122:PRO:HD2	2.36	0.40
1:J:106:GLN:OE1	1:K:244:ARG:NH1	2.54	0.40
1:K:331:PHE:HD1	1:K:331:PHE:HA	1.72	0.40
1:M:82:TYR:HE2	1:M:249:ASP:OD2	2.04	0.40
1:N:149:SER:HA	1:N:152:ARG:NH1	2.37	0.40
1:O:329:GLN:O	1:O:332:SER:N	2.53	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	A	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	B	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	C	356/389 (92%)	304 (85%)	47 (13%)	5 (1%)	14	59
1	D	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	E	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	F	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	G	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	H	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	I	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	J	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	K	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	L	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	M	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	N	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	O	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
1	P	356/389 (92%)	305 (86%)	46 (13%)	5 (1%)	14	59
All	All	5696/6224 (92%)	4879 (86%)	737 (13%)	80 (1%)	19	59

All (80) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	321	ILE
1	B	321	ILE
1	C	321	ILE
1	D	321	ILE
1	E	321	ILE
1	F	321	ILE
1	G	321	ILE
1	H	321	ILE
1	I	321	ILE
1	J	321	ILE
1	K	321	ILE
1	L	321	ILE
1	M	321	ILE
1	N	321	ILE
1	O	321	ILE
1	P	321	ILE
1	A	219	TYR
1	B	219	TYR

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Mol	Chain	Res	Type
1	C	219	TYR
1	D	219	TYR
1	E	219	TYR
1	F	219	TYR
1	G	219	TYR
1	H	219	TYR
1	I	219	TYR
1	J	219	TYR
1	K	219	TYR
1	L	219	TYR
1	M	219	TYR
1	N	219	TYR
1	O	219	TYR
1	P	219	TYR
1	A	323	SER
1	B	323	SER
1	C	323	SER
1	D	323	SER
1	E	323	SER
1	F	323	SER
1	G	323	SER
1	H	323	SER
1	I	323	SER
1	J	323	SER
1	K	323	SER
1	L	323	SER
1	M	323	SER
1	N	323	SER
1	O	323	SER
1	P	323	SER
1	A	304	ASN
1	A	305	LYS
1	B	304	ASN
1	B	305	LYS
1	C	304	ASN
1	C	305	LYS
1	D	304	ASN
1	D	305	LYS
1	E	304	ASN
1	E	305	LYS
1	F	304	ASN
1	F	305	LYS

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Mol	Chain	Res	Type
1	G	304	ASN
1	G	305	LYS
1	H	304	ASN
1	H	305	LYS
1	I	304	ASN
1	I	305	LYS
1	J	304	ASN
1	J	305	LYS
1	K	304	ASN
1	K	305	LYS
1	L	304	ASN
1	L	305	LYS
1	M	304	ASN
1	M	305	LYS
1	N	304	ASN
1	N	305	LYS
1	O	304	ASN
1	O	305	LYS
1	P	304	ASN
1	P	305	LYS

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	320/346 (92%)	320 (100%)	0	100	100
1	B	320/346 (92%)	320 (100%)	0	100	100
1	C	320/346 (92%)	320 (100%)	0	100	100
1	D	320/346 (92%)	320 (100%)	0	100	100
1	E	320/346 (92%)	320 (100%)	0	100	100
1	F	320/346 (92%)	320 (100%)	0	100	100
1	G	320/346 (92%)	320 (100%)	0	100	100
1	H	320/346 (92%)	320 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	I	320/346 (92%)	320 (100%)	0	100	100
1	J	320/346 (92%)	320 (100%)	0	100	100
1	K	320/346 (92%)	320 (100%)	0	100	100
1	L	320/346 (92%)	320 (100%)	0	100	100
1	M	320/346 (92%)	320 (100%)	0	100	100
1	N	320/346 (92%)	320 (100%)	0	100	100
1	O	320/346 (92%)	320 (100%)	0	100	100
1	P	320/346 (92%)	320 (100%)	0	100	100
All	All	5120/5536 (92%)	5120 (100%)	0	100	100

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

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (24) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	241	HIS
1	A	259	GLN
1	B	241	HIS
1	B	259	GLN
1	C	241	HIS
1	C	259	GLN
1	D	241	HIS
1	D	259	GLN
1	E	241	HIS
1	E	259	GLN
1	F	241	HIS
1	G	241	HIS
1	H	241	HIS
1	I	241	HIS
1	J	241	HIS
1	J	259	GLN
1	K	241	HIS
1	K	259	GLN
1	L	241	HIS
1	L	259	GLN
1	M	241	HIS
1	N	241	HIS
1	O	241	HIS
1	P	241	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.