



## Full wwPDB EM Validation Report ⓘ

Nov 19, 2022 – 12:14 PM EST

PDB ID : 3GZT  
EMDB ID : EMD-1571  
Title : VP7 recoated rotavirus DLP  
Authors : Chen, J.Z.; Settembre, E.C.; Harrison, S.C.; Grigorieff, N.  
Deposited on : 2009-04-07  
Resolution : 3.80 Å (reported)

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

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

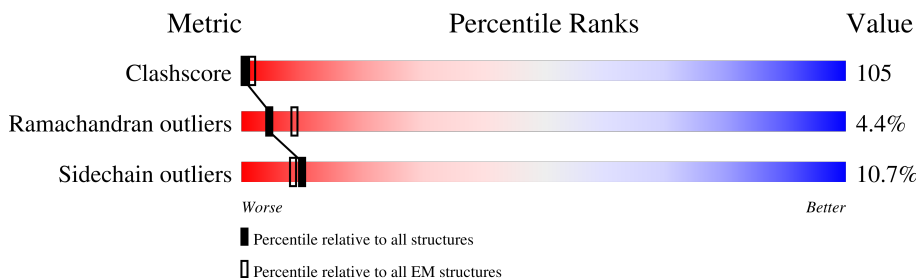
EMDB validation analysis : 0.0.1.dev43  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
MolProbity : 4.02b-467  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
MapQ : 1.9.9  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.31.3

# 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 3.80 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.





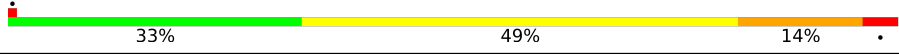
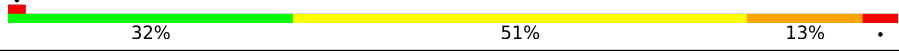
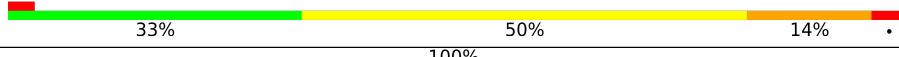



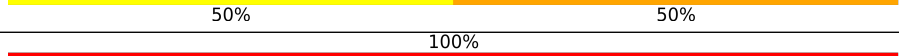
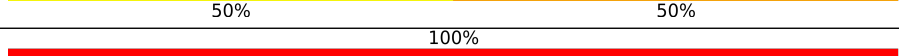
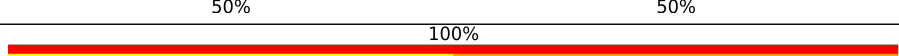
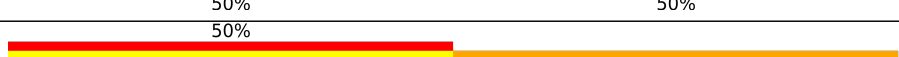


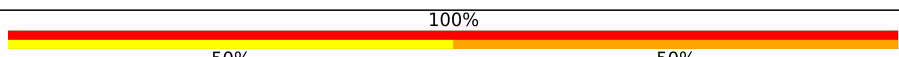

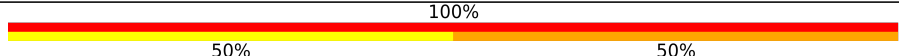

Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	B	255	
1	F	255	
1	G	255	
1	H	255	
1	I	255	
1	J	255	
1	K	255	
1	L	255	

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Mol	Chain	Length	Quality of chain
1	M	255	 32% 50% 14%
1	N	255	 31% 52% 13%
1	O	255	 33% 49% 14%
1	P	255	 32% 51% 13%
1	Q	255	 33% 50% 14%
2	A	2	 100% 50% 50%
2	C	2	 50% 50%
2	D	2	 50% 50%
2	E	2	 50% 50%
2	R	2	 100% 50% 50%
2	S	2	 100% 50% 50%
2	T	2	 100% 50% 50%
2	U	2	 50% 50%
2	V	2	 50% 50%
2	W	2	 50% 50%
2	X	2	 100% 50% 50%
2	Y	2	 50% 50%
2	Z	2	 100% 50% 50%

## 2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 26537 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 Outer capsid glycoprotein VP7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	B	255	2011	1277	314	404	16	0	0
1	F	255	2011	1277	314	404	16	0	0
1	G	255	2011	1277	314	404	16	0	0
1	H	255	2011	1277	314	404	16	0	0
1	I	255	2011	1277	314	404	16	0	0
1	J	255	2011	1277	314	404	16	0	0
1	K	255	2011	1277	314	404	16	0	0
1	L	255	2011	1277	314	404	16	0	0
1	M	255	2011	1277	314	404	16	0	0
1	N	255	2011	1277	314	404	16	0	0
1	O	255	2011	1277	314	404	16	0	0
1	P	255	2011	1277	314	404	16	0	0
1	Q	255	2011	1277	314	404	16	0	0

There are 13 discrepancies between the modelled and reference sequences:

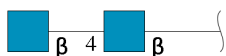
Chain	Residue	Modelled	Actual	Comment	Reference
B	171	THR	ALA	variant	UNP P12476
F	171	THR	ALA	variant	UNP P12476
G	171	THR	ALA	variant	UNP P12476
H	171	THR	ALA	variant	UNP P12476

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Chain	Residue	Modelled	Actual	Comment	Reference
I	171	THR	ALA	variant	UNP P12476
J	171	THR	ALA	variant	UNP P12476
K	171	THR	ALA	variant	UNP P12476
L	171	THR	ALA	variant	UNP P12476
M	171	THR	ALA	variant	UNP P12476
N	171	THR	ALA	variant	UNP P12476
O	171	THR	ALA	variant	UNP P12476
P	171	THR	ALA	variant	UNP P12476
Q	171	THR	ALA	variant	UNP P12476

- Molecule 2 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
2	A	2	Total 28	C 16	N 2	O 10	0	0
2	C	2	Total 28	C 16	N 2	O 10	0	0
2	D	2	Total 28	C 16	N 2	O 10	0	0
2	E	2	Total 28	C 16	N 2	O 10	0	0
2	R	2	Total 28	C 16	N 2	O 10	0	0
2	S	2	Total 28	C 16	N 2	O 10	0	0
2	T	2	Total 28	C 16	N 2	O 10	0	0
2	U	2	Total 28	C 16	N 2	O 10	0	0
2	V	2	Total 28	C 16	N 2	O 10	0	0
2	W	2	Total 28	C 16	N 2	O 10	0	0
2	X	2	Total 28	C 16	N 2	O 10	0	0
2	Y	2	Total 28	C 16	N 2	O 10	0	0

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Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
2	Z	2	28	16	2	10	0	0

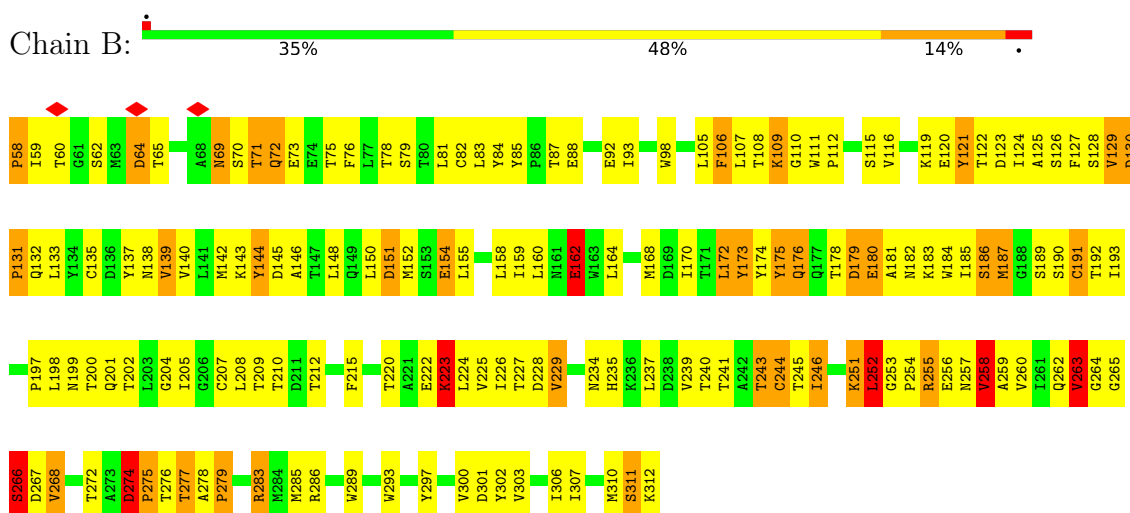
- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		AltConf
3	B	4	Total	Ca	0
			4	4	
3	F	2	Total	Ca	0
			2	2	
3	G	2	Total	Ca	0
			2	2	
3	H	2	Total	Ca	0
			2	2	
3	I	2	Total	Ca	0
			2	2	
3	J	2	Total	Ca	0
			2	2	
3	K	2	Total	Ca	0
			2	2	
3	L	2	Total	Ca	0
			2	2	
3	M	2	Total	Ca	0
			2	2	
3	N	2	Total	Ca	0
			2	2	
3	O	2	Total	Ca	0
			2	2	
3	P	2	Total	Ca	0
			2	2	
3	Q	3	Total	Ca	0
			3	3	
3	X	1	Total	Ca	0
			1	1	

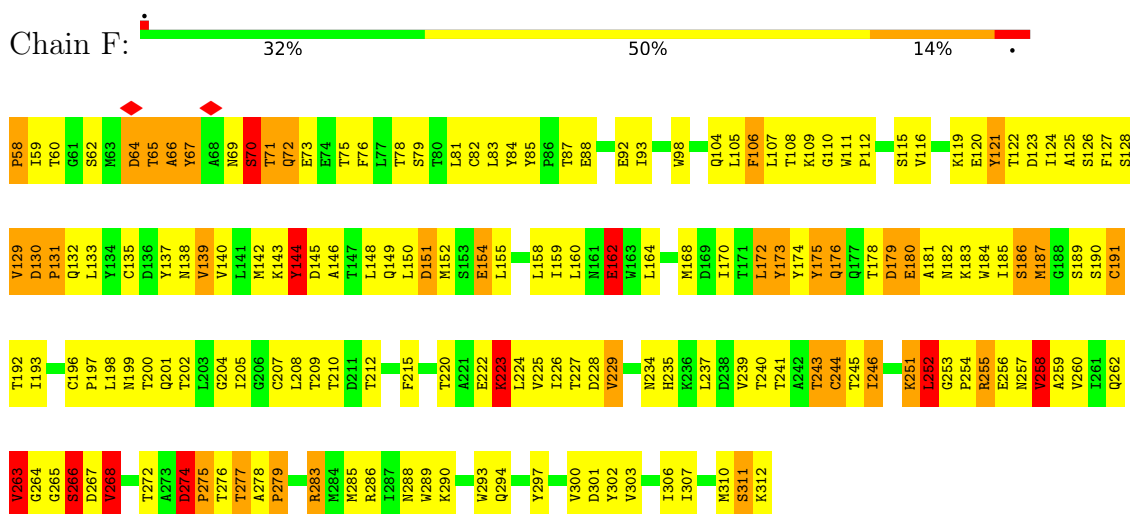
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Outer capsid glycoprotein VP7

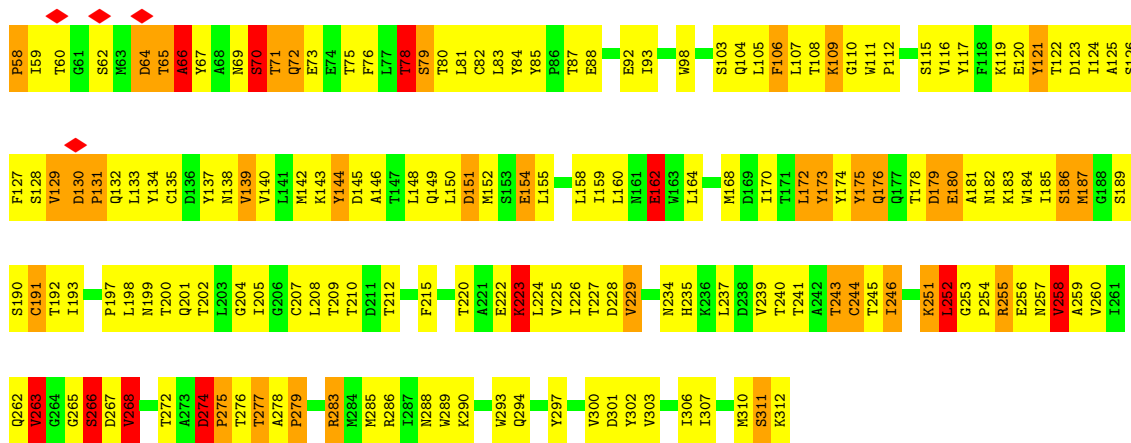


- Molecule 1: Outer capsid glycoprotein VP7

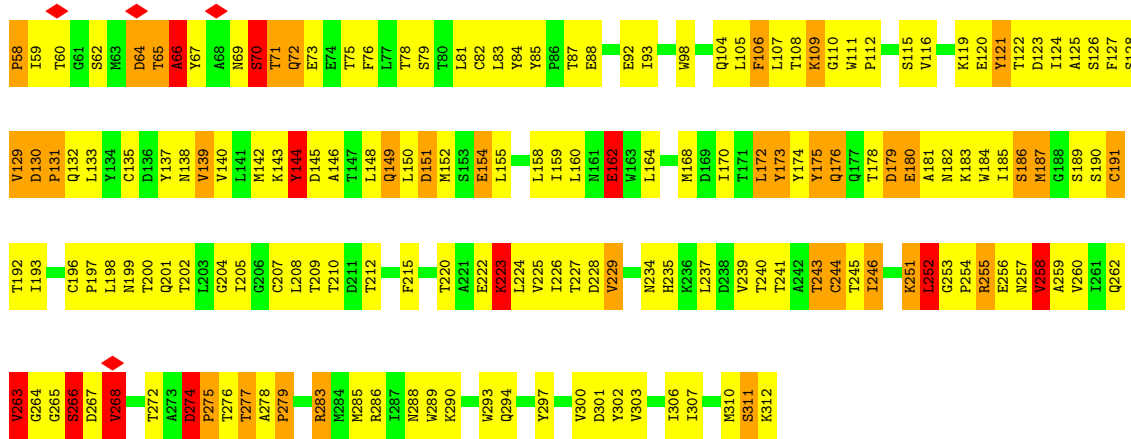
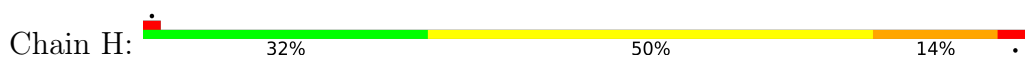


- Molecule 1: Outer capsid glycoprotein VP7

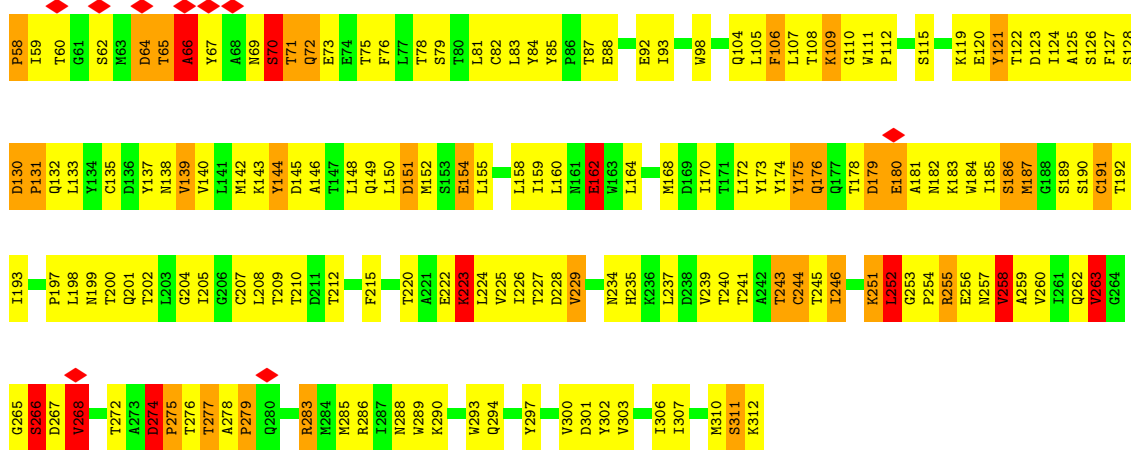




• Molecule 1: Outer capsid glycoprotein VP7

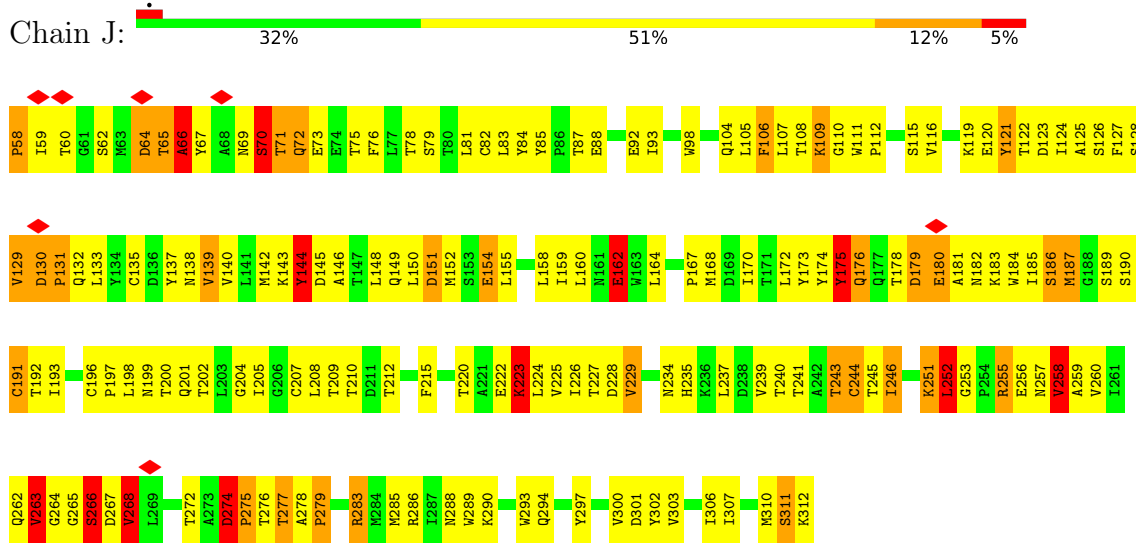


• Molecule 1: Outer capsid glycoprotein VP7

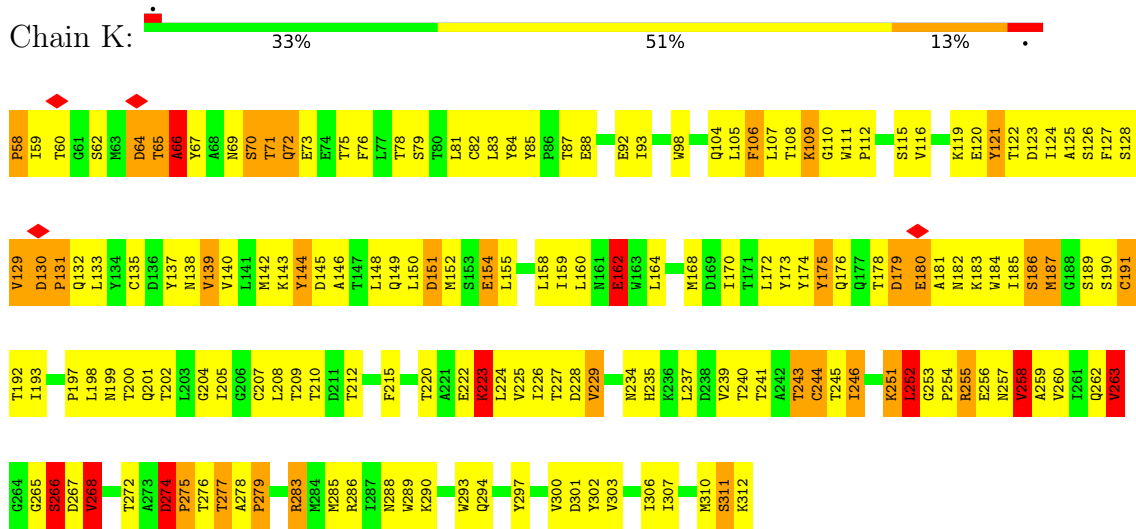


• Molecule 1: Outer capsid glycoprotein VP7

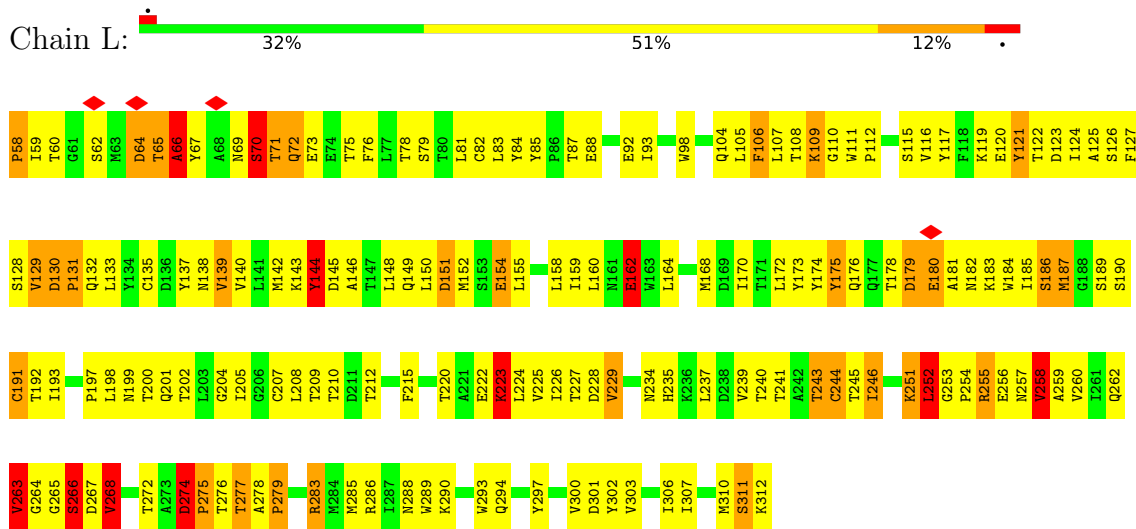




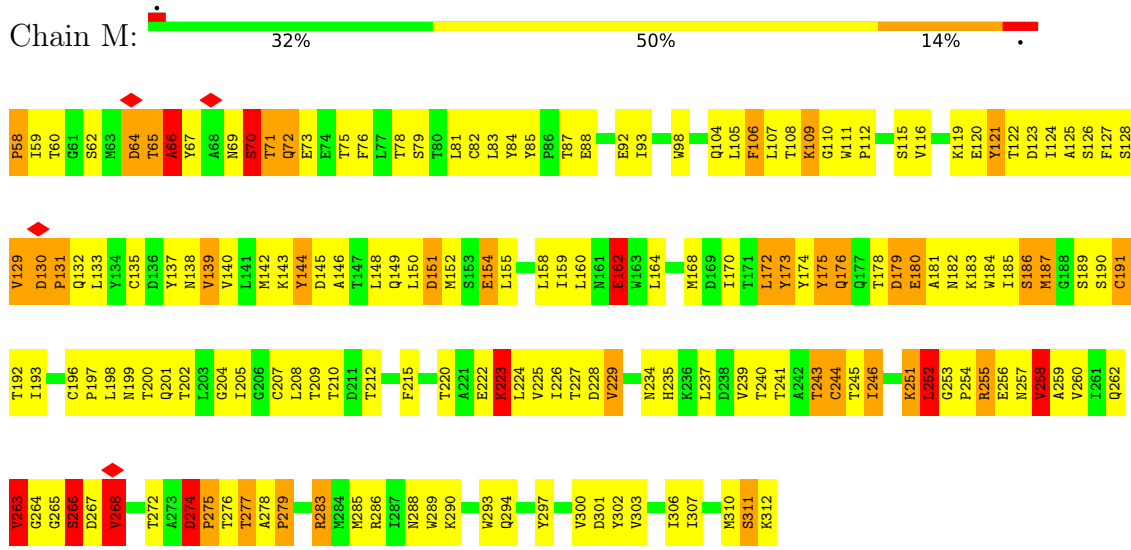
• Molecule 1: Outer capsid glycoprotein VP7



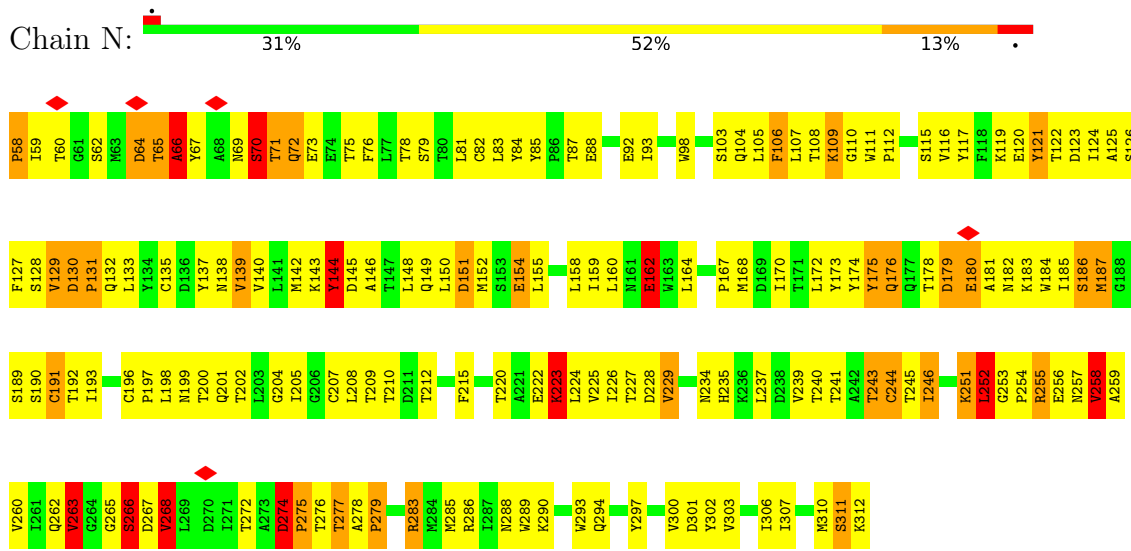
• Molecule 1: Outer capsid glycoprotein VP7



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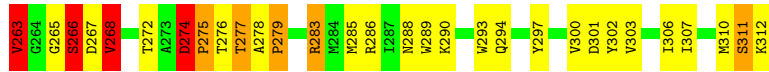


• Molecule 1: Outer capsid glycoprotein VP7

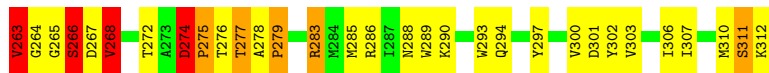
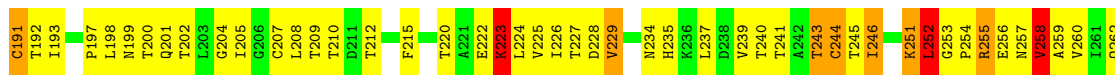
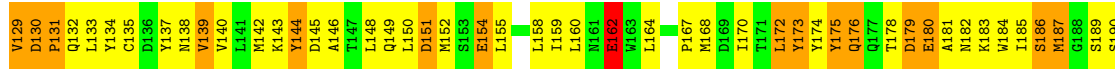


• Molecule 1: Outer capsid glycoprotein VP7

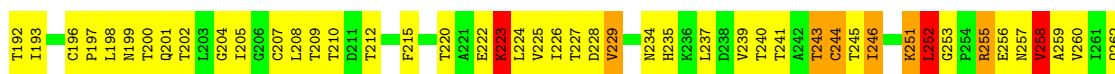




• Molecule 1: Outer capsid glycoprotein VP7



• Molecule 1: Outer capsid glycoprotein VP7



• Molecule 2: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



• Molecule 2: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 2: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



- Molecule 2: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



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## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	3780	Depositor
Resolution determination method	Not provided	
CTF correction method	individual particle	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	25	Depositor
Minimum defocus (nm)	1200	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	58168	Depositor
Image detector	GENERIC FILM	Depositor
Maximum map value	7.179	Depositor
Minimum map value	-3.263	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.0	Depositor
Map size ( $\text{\AA}$ )	986.4, 986.4, 986.4	wwPDB
Map dimensions	800, 800, 800	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.233, 1.233, 1.233	Depositor

## 5 Model quality i

### 5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: CA, NAG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
1	B	0.81	10/2053 (0.5%)	1.32	32/2806 (1.1%)
1	F	0.82	10/2053 (0.5%)	1.41	39/2806 (1.4%)
1	G	0.95	13/2053 (0.6%)	1.46	38/2806 (1.4%)
1	H	0.87	12/2053 (0.6%)	1.46	39/2806 (1.4%)
1	I	0.88	12/2053 (0.6%)	1.46	37/2806 (1.3%)
1	J	0.87	11/2053 (0.5%)	1.46	41/2806 (1.5%)
1	K	0.87	11/2053 (0.5%)	1.45	37/2806 (1.3%)
1	L	0.87	12/2053 (0.6%)	1.45	39/2806 (1.4%)
1	M	0.87	11/2053 (0.5%)	1.45	38/2806 (1.4%)
1	N	0.87	11/2053 (0.5%)	1.46	38/2806 (1.4%)
1	O	0.87	11/2053 (0.5%)	1.46	37/2806 (1.3%)
1	P	0.87	11/2053 (0.5%)	1.45	38/2806 (1.4%)
1	Q	0.87	11/2053 (0.5%)	1.45	38/2806 (1.4%)
All	All	0.87	146/26689 (0.5%)	1.44	491/36478 (1.3%)

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	B	0	3
1	F	0	3
1	G	0	5
1	H	0	4
1	I	0	4
1	J	0	4
1	K	0	4
1	L	0	4
1	M	0	4
1	N	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	O	0	4
1	P	0	4
1	Q	0	4
All	All	0	51

All (146) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	79	SER	C-N	15.53	1.69	1.34
1	L	66	ALA	C-N	-14.04	1.01	1.34
1	Q	66	ALA	C-N	-14.03	1.01	1.34
1	I	66	ALA	C-N	-14.01	1.01	1.34
1	N	66	ALA	C-N	-14.01	1.01	1.34
1	P	66	ALA	C-N	-14.00	1.01	1.34
1	J	66	ALA	C-N	-14.00	1.01	1.34
1	G	66	ALA	C-N	-13.99	1.01	1.34
1	O	66	ALA	C-N	-13.99	1.01	1.34
1	K	66	ALA	C-N	-13.99	1.01	1.34
1	H	66	ALA	C-N	-13.98	1.01	1.34
1	M	66	ALA	C-N	-13.97	1.01	1.34
1	J	129	VAL	C-N	9.90	1.56	1.34
1	H	129	VAL	C-N	9.88	1.56	1.34
1	G	129	VAL	C-N	9.86	1.56	1.34
1	I	129	VAL	C-N	9.86	1.56	1.34
1	B	129	VAL	C-N	9.85	1.56	1.34
1	N	129	VAL	C-N	9.85	1.56	1.34
1	F	129	VAL	C-N	9.85	1.56	1.34
1	Q	129	VAL	C-N	9.84	1.56	1.34
1	M	129	VAL	C-N	9.84	1.56	1.34
1	O	129	VAL	C-N	9.83	1.56	1.34
1	P	129	VAL	C-N	9.83	1.56	1.34
1	K	129	VAL	C-N	9.82	1.56	1.34
1	L	129	VAL	C-N	9.82	1.56	1.34
1	G	78	THR	C-N	-8.57	1.14	1.34
1	I	258	VAL	C-N	8.57	1.53	1.34
1	O	258	VAL	C-N	8.56	1.53	1.34
1	J	258	VAL	C-N	8.55	1.53	1.34
1	G	258	VAL	C-N	8.52	1.53	1.34
1	M	258	VAL	C-N	8.52	1.53	1.34
1	B	258	VAL	C-N	8.51	1.53	1.34
1	Q	258	VAL	C-N	8.51	1.53	1.34
1	P	258	VAL	C-N	8.50	1.53	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	258	VAL	C-N	8.50	1.53	1.34
1	H	258	VAL	C-N	8.50	1.53	1.34
1	L	258	VAL	C-N	8.49	1.53	1.34
1	N	258	VAL	C-N	8.48	1.53	1.34
1	K	258	VAL	C-N	8.46	1.53	1.34
1	G	58	PRO	C-N	8.30	1.53	1.34
1	H	58	PRO	C-N	8.29	1.53	1.34
1	F	58	PRO	C-N	8.28	1.53	1.34
1	K	58	PRO	C-N	8.28	1.53	1.34
1	Q	58	PRO	C-N	8.28	1.53	1.34
1	B	58	PRO	C-N	8.27	1.53	1.34
1	I	58	PRO	C-N	8.27	1.53	1.34
1	M	58	PRO	C-N	8.27	1.53	1.34
1	J	58	PRO	C-N	8.27	1.53	1.34
1	L	58	PRO	C-N	8.26	1.53	1.34
1	N	58	PRO	C-N	8.26	1.53	1.34
1	P	58	PRO	C-N	8.25	1.53	1.34
1	O	58	PRO	C-N	8.24	1.52	1.34
1	Q	62	SER	C-N	6.74	1.49	1.34
1	H	62	SER	C-N	6.73	1.49	1.34
1	O	62	SER	C-N	6.72	1.49	1.34
1	N	62	SER	C-N	6.72	1.49	1.34
1	L	62	SER	C-N	6.71	1.49	1.34
1	J	62	SER	C-N	6.71	1.49	1.34
1	K	62	SER	C-N	6.70	1.49	1.34
1	B	62	SER	C-N	6.69	1.49	1.34
1	F	62	SER	C-N	6.68	1.49	1.34
1	P	62	SER	C-N	6.67	1.49	1.34
1	G	62	SER	C-N	6.66	1.49	1.34
1	M	62	SER	C-N	6.66	1.49	1.34
1	I	62	SER	C-N	6.64	1.49	1.34
1	J	245	THR	CB-OG1	6.44	1.56	1.43
1	I	245	THR	CB-OG1	6.44	1.56	1.43
1	M	245	THR	CB-OG1	6.43	1.56	1.43
1	F	245	THR	CB-OG1	6.42	1.56	1.43
1	H	245	THR	CB-OG1	6.42	1.56	1.43
1	P	245	THR	CB-OG1	6.42	1.56	1.43
1	K	245	THR	CB-OG1	6.41	1.56	1.43
1	O	245	THR	CB-OG1	6.41	1.56	1.43
1	B	245	THR	CB-OG1	6.41	1.56	1.43
1	N	245	THR	CB-OG1	6.40	1.56	1.43
1	L	245	THR	CB-OG1	6.40	1.56	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	245	THR	CB-OG1	6.39	1.56	1.43
1	G	245	THR	CB-OG1	6.37	1.55	1.43
1	G	246	ILE	CB-CG2	6.18	1.72	1.52
1	M	246	ILE	CB-CG2	6.18	1.72	1.52
1	H	246	ILE	CB-CG2	6.18	1.72	1.52
1	J	246	ILE	CB-CG2	6.17	1.72	1.52
1	L	246	ILE	CB-CG2	6.17	1.72	1.52
1	P	246	ILE	CB-CG2	6.17	1.72	1.52
1	N	246	ILE	CB-CG2	6.17	1.72	1.52
1	B	246	ILE	CB-CG2	6.17	1.72	1.52
1	O	246	ILE	CB-CG2	6.17	1.72	1.52
1	Q	246	ILE	CB-CG2	6.16	1.72	1.52
1	F	246	ILE	CB-CG2	6.15	1.72	1.52
1	I	246	ILE	CB-CG2	6.15	1.72	1.52
1	K	246	ILE	CB-CG2	6.10	1.71	1.52
1	L	172	LEU	C-N	6.08	1.48	1.34
1	J	172	LEU	C-N	6.08	1.48	1.34
1	N	172	LEU	C-N	6.08	1.48	1.34
1	Q	172	LEU	C-N	6.06	1.48	1.34
1	O	172	LEU	C-N	6.05	1.48	1.34
1	B	172	LEU	C-N	6.04	1.48	1.34
1	M	172	LEU	C-N	6.04	1.48	1.34
1	G	172	LEU	C-N	6.04	1.48	1.34
1	P	172	LEU	C-N	6.03	1.48	1.34
1	K	172	LEU	C-N	6.03	1.48	1.34
1	F	172	LEU	C-N	6.02	1.47	1.34
1	I	172	LEU	C-N	6.02	1.47	1.34
1	H	172	LEU	C-N	6.01	1.47	1.34
1	Q	154	GLU	CB-CG	-5.92	1.41	1.52
1	G	154	GLU	CB-CG	-5.89	1.41	1.52
1	B	154	GLU	CB-CG	-5.89	1.41	1.52
1	F	154	GLU	CB-CG	-5.89	1.41	1.52
1	I	154	GLU	CB-CG	-5.88	1.41	1.52
1	O	154	GLU	CB-CG	-5.88	1.41	1.52
1	H	154	GLU	CB-CG	-5.87	1.41	1.52
1	L	154	GLU	CB-CG	-5.87	1.41	1.52
1	N	154	GLU	CB-CG	-5.87	1.41	1.52
1	P	154	GLU	CB-CG	-5.87	1.41	1.52
1	K	154	GLU	CB-CG	-5.87	1.41	1.52
1	M	154	GLU	CB-CG	-5.86	1.41	1.52
1	J	154	GLU	CB-CG	-5.86	1.41	1.52
1	G	151	ASP	C-N	5.67	1.47	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	151	ASP	C-N	5.66	1.47	1.34
1	P	151	ASP	C-N	5.65	1.47	1.34
1	J	151	ASP	C-N	5.65	1.47	1.34
1	I	151	ASP	C-N	5.64	1.47	1.34
1	M	151	ASP	C-N	5.63	1.47	1.34
1	B	151	ASP	C-N	5.63	1.47	1.34
1	K	151	ASP	C-N	5.63	1.47	1.34
1	H	151	ASP	C-N	5.62	1.47	1.34
1	F	151	ASP	C-N	5.62	1.47	1.34
1	Q	151	ASP	C-N	5.62	1.47	1.34
1	N	151	ASP	C-N	5.62	1.47	1.34
1	L	151	ASP	C-N	5.59	1.47	1.34
1	P	132	GLN	C-N	-5.54	1.21	1.34
1	H	132	GLN	C-N	-5.54	1.21	1.34
1	M	132	GLN	C-N	-5.54	1.21	1.34
1	N	132	GLN	C-N	-5.54	1.21	1.34
1	Q	132	GLN	C-N	-5.53	1.21	1.34
1	G	132	GLN	C-N	-5.53	1.21	1.34
1	B	132	GLN	C-N	-5.51	1.21	1.34
1	O	132	GLN	C-N	-5.51	1.21	1.34
1	L	132	GLN	C-N	-5.50	1.21	1.34
1	I	132	GLN	C-N	-5.49	1.21	1.34
1	J	132	GLN	C-N	-5.48	1.21	1.34
1	F	132	GLN	C-N	-5.47	1.21	1.34
1	K	132	GLN	C-N	-5.47	1.21	1.34
1	H	121	TYR	C-N	-5.03	1.22	1.34
1	I	121	TYR	C-N	-5.02	1.22	1.34
1	L	121	TYR	C-N	-5.00	1.22	1.34

All (491) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	M	66	ALA	O-C-N	-20.72	89.55	122.70
1	N	66	ALA	O-C-N	-20.71	89.57	122.70
1	G	66	ALA	O-C-N	-20.70	89.57	122.70
1	H	66	ALA	O-C-N	-20.70	89.57	122.70
1	P	66	ALA	O-C-N	-20.70	89.57	122.70
1	O	66	ALA	O-C-N	-20.68	89.61	122.70
1	I	66	ALA	O-C-N	-20.68	89.61	122.70
1	Q	66	ALA	O-C-N	-20.68	89.62	122.70
1	K	66	ALA	O-C-N	-20.67	89.63	122.70
1	L	66	ALA	O-C-N	-20.64	89.68	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	66	ALA	O-C-N	-20.62	89.70	122.70
1	H	58	PRO	CA-C-N	-16.41	81.10	117.20
1	L	58	PRO	CA-C-N	-16.41	81.10	117.20
1	G	58	PRO	CA-C-N	-16.41	81.11	117.20
1	N	58	PRO	CA-C-N	-16.41	81.11	117.20
1	Q	58	PRO	CA-C-N	-16.40	81.11	117.20
1	P	58	PRO	CA-C-N	-16.40	81.12	117.20
1	J	58	PRO	CA-C-N	-16.40	81.13	117.20
1	B	58	PRO	CA-C-N	-16.39	81.13	117.20
1	F	58	PRO	CA-C-N	-16.39	81.14	117.20
1	O	58	PRO	CA-C-N	-16.39	81.14	117.20
1	K	58	PRO	CA-C-N	-16.39	81.14	117.20
1	M	58	PRO	CA-C-N	-16.38	81.16	117.20
1	I	58	PRO	CA-C-N	-16.37	81.18	117.20
1	L	64	ASP	O-C-N	16.03	148.35	122.70
1	N	64	ASP	O-C-N	16.03	148.34	122.70
1	M	64	ASP	O-C-N	16.02	148.34	122.70
1	H	64	ASP	O-C-N	16.02	148.32	122.70
1	F	64	ASP	O-C-N	16.01	148.32	122.70
1	J	64	ASP	O-C-N	16.00	148.31	122.70
1	K	64	ASP	O-C-N	16.00	148.31	122.70
1	P	64	ASP	O-C-N	15.98	148.27	122.70
1	Q	64	ASP	O-C-N	15.98	148.28	122.70
1	O	64	ASP	O-C-N	15.97	148.26	122.70
1	I	64	ASP	O-C-N	15.96	148.24	122.70
1	G	64	ASP	O-C-N	15.95	148.23	122.70
1	N	58	PRO	O-C-N	14.72	146.25	122.70
1	H	58	PRO	O-C-N	14.69	146.21	122.70
1	J	58	PRO	O-C-N	14.69	146.21	122.70
1	O	58	PRO	O-C-N	14.69	146.21	122.70
1	L	58	PRO	O-C-N	14.69	146.20	122.70
1	Q	58	PRO	O-C-N	14.68	146.19	122.70
1	M	58	PRO	O-C-N	14.68	146.19	122.70
1	P	58	PRO	O-C-N	14.68	146.19	122.70
1	G	58	PRO	O-C-N	14.68	146.18	122.70
1	B	58	PRO	O-C-N	14.67	146.18	122.70
1	I	58	PRO	O-C-N	14.67	146.18	122.70
1	F	58	PRO	O-C-N	14.66	146.16	122.70
1	K	58	PRO	O-C-N	14.66	146.15	122.70
1	L	64	ASP	CA-C-N	-13.22	88.12	117.20
1	M	64	ASP	CA-C-N	-13.21	88.13	117.20
1	F	64	ASP	CA-C-N	-13.21	88.13	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	64	ASP	CA-C-N	-13.21	88.14	117.20
1	H	64	ASP	CA-C-N	-13.21	88.14	117.20
1	N	64	ASP	CA-C-N	-13.21	88.14	117.20
1	G	64	ASP	CA-C-N	-13.19	88.18	117.20
1	Q	64	ASP	CA-C-N	-13.19	88.18	117.20
1	K	64	ASP	CA-C-N	-13.19	88.19	117.20
1	O	64	ASP	CA-C-N	-13.19	88.19	117.20
1	P	64	ASP	CA-C-N	-13.18	88.20	117.20
1	I	64	ASP	CA-C-N	-13.17	88.22	117.20
1	K	121	TYR	O-C-N	-12.18	103.22	122.70
1	M	121	TYR	O-C-N	-12.16	103.25	122.70
1	N	121	TYR	O-C-N	-12.15	103.25	122.70
1	O	121	TYR	O-C-N	-12.14	103.27	122.70
1	B	121	TYR	O-C-N	-12.14	103.28	122.70
1	I	121	TYR	O-C-N	-12.13	103.29	122.70
1	J	121	TYR	O-C-N	-12.13	103.29	122.70
1	P	121	TYR	O-C-N	-12.13	103.29	122.70
1	H	121	TYR	O-C-N	-12.13	103.30	122.70
1	Q	121	TYR	O-C-N	-12.13	103.30	122.70
1	G	121	TYR	O-C-N	-12.12	103.30	122.70
1	F	121	TYR	O-C-N	-12.12	103.31	122.70
1	L	121	TYR	O-C-N	-12.11	103.32	122.70
1	M	172	LEU	O-C-N	-10.62	105.71	122.70
1	J	172	LEU	O-C-N	-10.61	105.73	122.70
1	B	172	LEU	O-C-N	-10.59	105.76	122.70
1	O	172	LEU	O-C-N	-10.59	105.76	122.70
1	N	172	LEU	O-C-N	-10.59	105.76	122.70
1	P	172	LEU	O-C-N	-10.58	105.77	122.70
1	K	172	LEU	O-C-N	-10.58	105.77	122.70
1	Q	172	LEU	O-C-N	-10.58	105.77	122.70
1	I	172	LEU	O-C-N	-10.58	105.78	122.70
1	G	172	LEU	O-C-N	-10.57	105.78	122.70
1	L	172	LEU	O-C-N	-10.57	105.79	122.70
1	F	172	LEU	O-C-N	-10.57	105.79	122.70
1	H	172	LEU	O-C-N	-10.53	105.84	122.70
1	H	258	VAL	CA-C-N	-9.92	95.38	117.20
1	P	258	VAL	CA-C-N	-9.90	95.41	117.20
1	I	258	VAL	CA-C-N	-9.90	95.42	117.20
1	L	258	VAL	CA-C-N	-9.90	95.42	117.20
1	M	258	VAL	CA-C-N	-9.89	95.44	117.20
1	O	258	VAL	CA-C-N	-9.89	95.44	117.20
1	J	258	VAL	CA-C-N	-9.88	95.45	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	N	258	VAL	CA-C-N	-9.88	95.46	117.20
1	F	258	VAL	CA-C-N	-9.88	95.46	117.20
1	K	258	VAL	CA-C-N	-9.88	95.46	117.20
1	B	258	VAL	CA-C-N	-9.88	95.46	117.20
1	Q	258	VAL	CA-C-N	-9.88	95.47	117.20
1	G	258	VAL	CA-C-N	-9.87	95.49	117.20
1	O	172	LEU	CA-C-N	9.04	137.09	117.20
1	M	172	LEU	CA-C-N	9.04	137.08	117.20
1	P	172	LEU	CA-C-N	9.02	137.05	117.20
1	J	172	LEU	CA-C-N	9.02	137.05	117.20
1	N	172	LEU	CA-C-N	9.02	137.05	117.20
1	B	172	LEU	CA-C-N	9.02	137.03	117.20
1	K	172	LEU	CA-C-N	9.02	137.04	117.20
1	F	172	LEU	CA-C-N	9.02	137.03	117.20
1	I	172	LEU	CA-C-N	9.02	137.03	117.20
1	H	172	LEU	CA-C-N	9.01	137.02	117.20
1	L	172	LEU	CA-C-N	9.01	137.02	117.20
1	G	172	LEU	CA-C-N	8.99	136.98	117.20
1	Q	172	LEU	CA-C-N	8.99	136.97	117.20
1	P	258	VAL	O-C-N	8.97	137.06	122.70
1	M	258	VAL	O-C-N	8.96	137.03	122.70
1	H	258	VAL	O-C-N	8.95	137.03	122.70
1	K	258	VAL	O-C-N	8.95	137.01	122.70
1	L	258	VAL	O-C-N	8.94	137.00	122.70
1	I	258	VAL	O-C-N	8.93	136.99	122.70
1	Q	258	VAL	O-C-N	8.93	136.99	122.70
1	B	258	VAL	O-C-N	8.92	136.98	122.70
1	J	258	VAL	O-C-N	8.92	136.98	122.70
1	N	258	VAL	O-C-N	8.92	136.98	122.70
1	F	258	VAL	O-C-N	8.91	136.95	122.70
1	G	258	VAL	O-C-N	8.90	136.93	122.70
1	O	258	VAL	O-C-N	8.87	136.90	122.70
1	G	268	VAL	N-CA-C	-8.71	87.47	111.00
1	J	268	VAL	N-CA-C	-8.71	87.47	111.00
1	K	268	VAL	N-CA-C	-8.71	87.48	111.00
1	N	268	VAL	N-CA-C	-8.71	87.49	111.00
1	B	268	VAL	N-CA-C	-8.70	87.52	111.00
1	M	268	VAL	N-CA-C	-8.70	87.52	111.00
1	O	268	VAL	N-CA-C	-8.69	87.53	111.00
1	H	268	VAL	N-CA-C	-8.69	87.53	111.00
1	L	268	VAL	N-CA-C	-8.69	87.54	111.00
1	P	268	VAL	N-CA-C	-8.69	87.55	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	268	VAL	N-CA-C	-8.68	87.56	111.00
1	G	121	TYR	CA-C-N	8.68	136.29	117.20
1	I	268	VAL	N-CA-C	-8.68	87.57	111.00
1	N	121	TYR	CA-C-N	8.68	136.29	117.20
1	Q	268	VAL	N-CA-C	-8.68	87.57	111.00
1	K	121	TYR	CA-C-N	8.67	136.28	117.20
1	L	121	TYR	CA-C-N	8.67	136.28	117.20
1	I	121	TYR	CA-C-N	8.67	136.27	117.20
1	H	121	TYR	CA-C-N	8.66	136.26	117.20
1	Q	121	TYR	CA-C-N	8.66	136.26	117.20
1	B	121	TYR	CA-C-N	8.66	136.25	117.20
1	F	121	TYR	CA-C-N	8.65	136.23	117.20
1	O	121	TYR	CA-C-N	8.64	136.22	117.20
1	J	121	TYR	CA-C-N	8.64	136.21	117.20
1	M	121	TYR	CA-C-N	8.64	136.20	117.20
1	P	121	TYR	CA-C-N	8.64	136.20	117.20
1	H	65	THR	O-C-N	-8.56	109.00	122.70
1	Q	65	THR	O-C-N	-8.56	109.00	122.70
1	J	65	THR	O-C-N	-8.56	109.01	122.70
1	N	65	THR	O-C-N	-8.55	109.01	122.70
1	I	65	THR	O-C-N	-8.55	109.02	122.70
1	L	65	THR	O-C-N	-8.55	109.02	122.70
1	H	164	LEU	CB-CA-C	8.55	126.44	110.20
1	K	65	THR	O-C-N	-8.54	109.03	122.70
1	I	164	LEU	CB-CA-C	8.54	126.42	110.20
1	G	65	THR	O-C-N	-8.54	109.04	122.70
1	P	65	THR	O-C-N	-8.53	109.06	122.70
1	H	266	SER	N-CA-C	-8.52	87.98	111.00
1	P	164	LEU	CB-CA-C	8.52	126.39	110.20
1	I	266	SER	N-CA-C	-8.52	88.00	111.00
1	O	164	LEU	CB-CA-C	8.52	126.38	110.20
1	L	266	SER	N-CA-C	-8.51	88.02	111.00
1	P	266	SER	N-CA-C	-8.51	88.01	111.00
1	K	266	SER	N-CA-C	-8.51	88.03	111.00
1	M	164	LEU	CB-CA-C	8.51	126.37	110.20
1	Q	266	SER	N-CA-C	-8.51	88.03	111.00
1	J	164	LEU	CB-CA-C	8.51	126.36	110.20
1	J	266	SER	N-CA-C	-8.51	88.03	111.00
1	B	164	LEU	CB-CA-C	8.51	126.36	110.20
1	M	65	THR	O-C-N	-8.51	109.09	122.70
1	M	266	SER	N-CA-C	-8.50	88.04	111.00
1	G	164	LEU	CB-CA-C	8.50	126.35	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	65	THR	O-C-N	-8.50	109.09	122.70
1	B	266	SER	N-CA-C	-8.50	88.06	111.00
1	N	164	LEU	CB-CA-C	8.50	126.34	110.20
1	N	266	SER	N-CA-C	-8.49	88.06	111.00
1	K	164	LEU	CB-CA-C	8.49	126.33	110.20
1	L	164	LEU	CB-CA-C	8.49	126.33	110.20
1	O	266	SER	N-CA-C	-8.49	88.08	111.00
1	F	164	LEU	CB-CA-C	8.49	126.33	110.20
1	G	266	SER	N-CA-C	-8.48	88.09	111.00
1	Q	164	LEU	CB-CA-C	8.47	126.30	110.20
1	G	58	PRO	C-N-CA	-8.47	100.53	121.70
1	F	58	PRO	C-N-CA	-8.47	100.54	121.70
1	J	58	PRO	C-N-CA	-8.46	100.55	121.70
1	F	266	SER	N-CA-C	-8.46	88.17	111.00
1	K	58	PRO	C-N-CA	-8.46	100.56	121.70
1	H	58	PRO	C-N-CA	-8.45	100.58	121.70
1	Q	58	PRO	C-N-CA	-8.45	100.58	121.70
1	M	58	PRO	C-N-CA	-8.45	100.58	121.70
1	N	58	PRO	C-N-CA	-8.45	100.59	121.70
1	B	58	PRO	C-N-CA	-8.44	100.59	121.70
1	I	58	PRO	C-N-CA	-8.44	100.59	121.70
1	L	58	PRO	C-N-CA	-8.44	100.60	121.70
1	P	58	PRO	C-N-CA	-8.43	100.62	121.70
1	O	58	PRO	C-N-CA	-8.42	100.64	121.70
1	G	246	ILE	CA-CB-CG2	-7.96	94.98	110.90
1	M	246	ILE	CA-CB-CG2	-7.95	95.00	110.90
1	H	246	ILE	CA-CB-CG2	-7.95	95.01	110.90
1	J	246	ILE	CA-CB-CG2	-7.95	95.01	110.90
1	L	246	ILE	CA-CB-CG2	-7.95	95.01	110.90
1	P	246	ILE	CA-CB-CG2	-7.95	95.01	110.90
1	B	246	ILE	CA-CB-CG2	-7.93	95.03	110.90
1	O	246	ILE	CA-CB-CG2	-7.93	95.03	110.90
1	Q	246	ILE	CA-CB-CG2	-7.93	95.03	110.90
1	N	246	ILE	CA-CB-CG2	-7.93	95.04	110.90
1	F	246	ILE	CA-CB-CG2	-7.93	95.05	110.90
1	N	263	VAL	CA-C-N	-7.91	100.37	116.20
1	I	246	ILE	CA-CB-CG2	-7.91	95.08	110.90
1	F	263	VAL	CA-C-N	-7.91	100.39	116.20
1	P	263	VAL	CA-C-N	-7.91	100.39	116.20
1	K	246	ILE	CA-CB-CG2	-7.90	95.09	110.90
1	I	263	VAL	CA-C-N	-7.88	100.43	116.20
1	B	263	VAL	CA-C-N	-7.88	100.44	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	K	263	VAL	CA-C-N	-7.88	100.44	116.20
1	M	263	VAL	CA-C-N	-7.88	100.45	116.20
1	J	263	VAL	CA-C-N	-7.86	100.47	116.20
1	L	263	VAL	CA-C-N	-7.86	100.48	116.20
1	H	263	VAL	CA-C-N	-7.86	100.49	116.20
1	G	263	VAL	CA-C-N	-7.85	100.51	116.20
1	O	263	VAL	CA-C-N	-7.85	100.50	116.20
1	Q	263	VAL	CA-C-N	-7.85	100.51	116.20
1	K	129	VAL	O-C-N	7.63	134.91	122.70
1	M	129	VAL	O-C-N	7.62	134.90	122.70
1	L	129	VAL	O-C-N	7.62	134.89	122.70
1	O	129	VAL	O-C-N	7.61	134.87	122.70
1	Q	129	VAL	O-C-N	7.61	134.87	122.70
1	P	129	VAL	O-C-N	7.60	134.87	122.70
1	G	129	VAL	O-C-N	7.60	134.86	122.70
1	N	129	VAL	O-C-N	7.58	134.83	122.70
1	B	129	VAL	O-C-N	7.58	134.82	122.70
1	F	129	VAL	O-C-N	7.57	134.80	122.70
1	H	129	VAL	O-C-N	7.56	134.79	122.70
1	J	129	VAL	O-C-N	7.55	134.78	122.70
1	I	129	VAL	O-C-N	7.52	134.73	122.70
1	F	65	THR	O-C-N	-7.51	110.69	122.70
1	G	78	THR	O-C-N	-7.47	110.75	122.70
1	H	151	ASP	O-C-N	7.43	134.59	122.70
1	N	151	ASP	O-C-N	7.42	134.57	122.70
1	Q	151	ASP	O-C-N	7.42	134.57	122.70
1	I	151	ASP	O-C-N	7.41	134.56	122.70
1	L	151	ASP	O-C-N	7.41	134.56	122.70
1	B	151	ASP	O-C-N	7.40	134.54	122.70
1	M	151	ASP	O-C-N	7.39	134.53	122.70
1	F	151	ASP	O-C-N	7.39	134.53	122.70
1	P	151	ASP	O-C-N	7.39	134.52	122.70
1	K	151	ASP	O-C-N	7.38	134.51	122.70
1	G	151	ASP	O-C-N	7.38	134.50	122.70
1	J	151	ASP	O-C-N	7.37	134.49	122.70
1	O	151	ASP	O-C-N	7.36	134.48	122.70
1	G	66	ALA	CB-CA-C	-6.65	100.13	110.10
1	K	66	ALA	CB-CA-C	-6.64	100.14	110.10
1	H	66	ALA	CB-CA-C	-6.64	100.14	110.10
1	P	66	ALA	CB-CA-C	-6.63	100.15	110.10
1	N	66	ALA	CB-CA-C	-6.63	100.16	110.10
1	M	66	ALA	CB-CA-C	-6.63	100.16	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	O	66	ALA	CB-CA-C	-6.62	100.17	110.10
1	Q	66	ALA	CB-CA-C	-6.61	100.19	110.10
1	J	66	ALA	CB-CA-C	-6.60	100.21	110.10
1	I	66	ALA	CB-CA-C	-6.58	100.24	110.10
1	L	66	ALA	CB-CA-C	-6.56	100.26	110.10
1	P	258	VAL	C-N-CA	-6.56	105.30	121.70
1	I	258	VAL	C-N-CA	-6.56	105.31	121.70
1	M	258	VAL	C-N-CA	-6.55	105.33	121.70
1	J	258	VAL	C-N-CA	-6.54	105.34	121.70
1	O	258	VAL	C-N-CA	-6.54	105.34	121.70
1	H	258	VAL	C-N-CA	-6.54	105.35	121.70
1	N	258	VAL	C-N-CA	-6.54	105.35	121.70
1	K	258	VAL	C-N-CA	-6.54	105.36	121.70
1	L	258	VAL	C-N-CA	-6.54	105.36	121.70
1	B	258	VAL	C-N-CA	-6.53	105.37	121.70
1	Q	258	VAL	C-N-CA	-6.53	105.37	121.70
1	F	258	VAL	C-N-CA	-6.51	105.42	121.70
1	G	258	VAL	C-N-CA	-6.51	105.42	121.70
1	F	144	TYR	CA-C-N	-6.45	103.00	117.20
1	J	263	VAL	C-N-CA	6.28	135.48	122.30
1	Q	263	VAL	C-N-CA	6.27	135.47	122.30
1	P	162	GLU	O-C-N	-6.26	112.68	122.70
1	H	263	VAL	C-N-CA	6.26	135.44	122.30
1	N	162	GLU	O-C-N	-6.26	112.69	122.70
1	L	263	VAL	C-N-CA	6.25	135.44	122.30
1	I	263	VAL	C-N-CA	6.25	135.43	122.30
1	B	263	VAL	C-N-CA	6.25	135.42	122.30
1	K	263	VAL	C-N-CA	6.25	135.42	122.30
1	O	263	VAL	C-N-CA	6.24	135.41	122.30
1	F	263	VAL	C-N-CA	6.24	135.41	122.30
1	M	263	VAL	C-N-CA	6.23	135.38	122.30
1	G	162	GLU	O-C-N	-6.22	112.74	122.70
1	G	263	VAL	C-N-CA	6.22	135.37	122.30
1	J	162	GLU	O-C-N	-6.22	112.75	122.70
1	N	263	VAL	C-N-CA	6.22	135.36	122.30
1	B	162	GLU	O-C-N	-6.22	112.75	122.70
1	H	144	TYR	C-N-CA	6.22	137.24	121.70
1	I	162	GLU	O-C-N	-6.21	112.76	122.70
1	P	263	VAL	C-N-CA	6.21	135.34	122.30
1	O	162	GLU	O-C-N	-6.21	112.77	122.70
1	H	162	GLU	O-C-N	-6.21	112.77	122.70
1	K	162	GLU	O-C-N	-6.20	112.77	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	162	GLU	O-C-N	-6.20	112.78	122.70
1	F	162	GLU	O-C-N	-6.20	112.78	122.70
1	M	162	GLU	O-C-N	-6.20	112.78	122.70
1	Q	223	LYS	CD-CE-NZ	6.17	125.90	111.70
1	H	223	LYS	CD-CE-NZ	6.17	125.89	111.70
1	F	144	TYR	C-N-CA	6.16	137.11	121.70
1	I	223	LYS	CD-CE-NZ	6.16	125.88	111.70
1	M	223	LYS	CD-CE-NZ	6.16	125.86	111.70
1	Q	162	GLU	O-C-N	-6.16	112.85	122.70
1	G	223	LYS	CD-CE-NZ	6.15	125.86	111.70
1	J	223	LYS	CD-CE-NZ	6.15	125.85	111.70
1	F	223	LYS	CD-CE-NZ	6.15	125.85	111.70
1	B	223	LYS	CD-CE-NZ	6.15	125.85	111.70
1	N	223	LYS	CD-CE-NZ	6.15	125.84	111.70
1	O	223	LYS	CD-CE-NZ	6.15	125.84	111.70
1	K	223	LYS	CD-CE-NZ	6.14	125.82	111.70
1	P	223	LYS	CD-CE-NZ	6.13	125.80	111.70
1	L	223	LYS	CD-CE-NZ	6.13	125.79	111.70
1	M	245	THR	CA-CB-OG1	-6.06	96.28	109.00
1	N	245	THR	CA-CB-OG1	-6.05	96.28	109.00
1	H	245	THR	CA-CB-OG1	-6.05	96.30	109.00
1	Q	245	THR	CA-CB-OG1	-6.05	96.30	109.00
1	F	245	THR	CA-CB-OG1	-6.04	96.31	109.00
1	J	245	THR	CA-CB-OG1	-6.04	96.32	109.00
1	K	245	THR	CA-CB-OG1	-6.04	96.32	109.00
1	L	245	THR	CA-CB-OG1	-6.03	96.34	109.00
1	B	245	THR	CA-CB-OG1	-6.03	96.34	109.00
1	I	245	THR	CA-CB-OG1	-6.02	96.35	109.00
1	G	245	THR	CA-CB-OG1	-6.02	96.36	109.00
1	O	245	THR	CA-CB-OG1	-6.01	96.37	109.00
1	P	245	THR	CA-CB-OG1	-6.01	96.38	109.00
1	J	144	TYR	C-N-CA	5.91	136.48	121.70
1	N	244	CYS	CA-CB-SG	-5.83	103.50	114.00
1	L	244	CYS	CA-CB-SG	-5.83	103.51	114.00
1	F	244	CYS	CA-CB-SG	-5.82	103.53	114.00
1	B	244	CYS	CA-CB-SG	-5.81	103.54	114.00
1	K	244	CYS	CA-CB-SG	-5.81	103.54	114.00
1	Q	244	CYS	CA-CB-SG	-5.81	103.54	114.00
1	J	244	CYS	CA-CB-SG	-5.80	103.55	114.00
1	I	244	CYS	CA-CB-SG	-5.80	103.56	114.00
1	O	244	CYS	CA-CB-SG	-5.80	103.56	114.00
1	M	244	CYS	CA-CB-SG	-5.80	103.56	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	244	CYS	CA-CB-SG	-5.80	103.56	114.00
1	H	244	CYS	CA-CB-SG	-5.80	103.56	114.00
1	G	244	CYS	CA-CB-SG	-5.79	103.58	114.00
1	H	151	ASP	CA-C-N	-5.78	104.49	117.20
1	K	173	TYR	O-C-N	5.78	131.94	122.70
1	L	72	GLN	CA-CB-CG	-5.78	100.69	113.40
1	L	173	TYR	O-C-N	5.77	131.94	122.70
1	P	65	THR	CA-C-O	5.77	132.22	120.10
1	H	65	THR	CA-C-O	5.77	132.22	120.10
1	F	64	ASP	C-N-CA	-5.77	107.29	121.70
1	H	72	GLN	CA-CB-CG	-5.76	100.72	113.40
1	G	151	ASP	CA-C-N	-5.76	104.52	117.20
1	I	72	GLN	CA-CB-CG	-5.76	100.72	113.40
1	Q	72	GLN	CA-CB-CG	-5.76	100.72	113.40
1	L	151	ASP	CA-C-N	-5.76	104.53	117.20
1	L	64	ASP	C-N-CA	-5.76	107.31	121.70
1	B	72	GLN	CA-CB-CG	-5.75	100.74	113.40
1	G	72	GLN	CA-CB-CG	-5.75	100.74	113.40
1	B	151	ASP	CA-C-N	-5.75	104.55	117.20
1	F	65	THR	CA-C-O	5.75	132.18	120.10
1	N	151	ASP	CA-C-N	-5.75	104.55	117.20
1	K	72	GLN	CA-CB-CG	-5.75	100.75	113.40
1	M	72	GLN	CA-CB-CG	-5.75	100.75	113.40
1	O	72	GLN	CA-CB-CG	-5.75	100.75	113.40
1	O	151	ASP	CA-C-N	-5.75	104.55	117.20
1	F	72	GLN	CA-CB-CG	-5.75	100.76	113.40
1	I	65	THR	CA-C-O	5.75	132.17	120.10
1	I	151	ASP	CA-C-N	-5.75	104.56	117.20
1	J	151	ASP	CA-C-N	-5.75	104.56	117.20
1	N	64	ASP	C-N-CA	-5.75	107.33	121.70
1	Q	151	ASP	CA-C-N	-5.75	104.56	117.20
1	K	65	THR	CA-C-O	5.75	132.16	120.10
1	M	64	ASP	C-N-CA	-5.75	107.34	121.70
1	P	72	GLN	CA-CB-CG	-5.75	100.76	113.40
1	P	151	ASP	CA-C-N	-5.75	104.56	117.20
1	J	64	ASP	C-N-CA	-5.74	107.34	121.70
1	K	64	ASP	C-N-CA	-5.74	107.34	121.70
1	N	65	THR	CA-C-O	5.74	132.16	120.10
1	J	72	GLN	CA-CB-CG	-5.74	100.77	113.40
1	L	65	THR	CA-C-O	5.74	132.16	120.10
1	M	151	ASP	CA-C-N	-5.74	104.57	117.20
1	G	64	ASP	C-N-CA	-5.74	107.35	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	151	ASP	CA-C-N	-5.74	104.58	117.20
1	Q	65	THR	CA-C-O	5.74	132.15	120.10
1	G	65	THR	CA-C-O	5.73	132.14	120.10
1	Q	64	ASP	C-N-CA	-5.73	107.37	121.70
1	G	173	TYR	O-C-N	5.73	131.87	122.70
1	H	173	TYR	O-C-N	5.73	131.87	122.70
1	I	64	ASP	C-N-CA	-5.73	107.37	121.70
1	H	64	ASP	C-N-CA	-5.73	107.38	121.70
1	O	64	ASP	C-N-CA	-5.72	107.39	121.70
1	J	65	THR	CA-C-O	5.72	132.11	120.10
1	J	173	TYR	O-C-N	5.72	131.85	122.70
1	K	151	ASP	CA-C-N	-5.72	104.61	117.20
1	N	173	TYR	O-C-N	5.72	131.85	122.70
1	N	72	GLN	CA-CB-CG	-5.72	100.82	113.40
1	O	65	THR	CA-C-O	5.72	132.11	120.10
1	B	173	TYR	O-C-N	5.72	131.85	122.70
1	P	64	ASP	C-N-CA	-5.72	107.41	121.70
1	F	173	TYR	O-C-N	5.71	131.84	122.70
1	M	65	THR	CA-C-O	5.70	132.06	120.10
1	O	173	TYR	O-C-N	5.70	131.81	122.70
1	M	173	TYR	O-C-N	5.69	131.80	122.70
1	I	173	TYR	O-C-N	5.68	131.79	122.70
1	P	173	TYR	O-C-N	5.68	131.79	122.70
1	Q	173	TYR	O-C-N	5.67	131.77	122.70
1	J	274	ASP	CB-CA-C	5.52	121.45	110.40
1	P	274	ASP	CB-CA-C	5.52	121.43	110.40
1	Q	274	ASP	CB-CA-C	5.51	121.43	110.40
1	M	129	VAL	CA-C-N	-5.50	105.11	117.20
1	O	274	ASP	CB-CA-C	5.49	121.39	110.40
1	B	274	ASP	CB-CA-C	5.49	121.38	110.40
1	I	274	ASP	CB-CA-C	5.49	121.38	110.40
1	H	129	VAL	CA-C-N	-5.49	105.12	117.20
1	K	129	VAL	CA-C-N	-5.49	105.13	117.20
1	M	274	ASP	CB-CA-C	5.49	121.38	110.40
1	O	129	VAL	CA-C-N	-5.49	105.13	117.20
1	F	274	ASP	CB-CA-C	5.49	121.37	110.40
1	G	274	ASP	CB-CA-C	5.49	121.37	110.40
1	J	129	VAL	CA-C-N	-5.48	105.14	117.20
1	P	129	VAL	CA-C-N	-5.48	105.14	117.20
1	G	129	VAL	CA-C-N	-5.48	105.14	117.20
1	H	274	ASP	CB-CA-C	5.48	121.37	110.40
1	K	274	ASP	CB-CA-C	5.48	121.36	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	L	274	ASP	CB-CA-C	5.48	121.36	110.40
1	L	129	VAL	CA-C-N	-5.48	105.14	117.20
1	B	129	VAL	CA-C-N	-5.48	105.15	117.20
1	F	129	VAL	CA-C-N	-5.47	105.16	117.20
1	Q	129	VAL	CA-C-N	-5.47	105.17	117.20
1	L	144	TYR	C-N-CA	5.46	135.36	121.70
1	I	129	VAL	CA-C-N	-5.46	105.18	117.20
1	N	274	ASP	CB-CA-C	5.46	121.32	110.40
1	N	129	VAL	CA-C-N	-5.46	105.19	117.20
1	J	66	ALA	C-N-CA	-5.29	108.47	121.70
1	N	66	ALA	C-N-CA	-5.29	108.48	121.70
1	G	66	ALA	C-N-CA	-5.28	108.51	121.70
1	H	66	ALA	C-N-CA	-5.28	108.51	121.70
1	Q	66	ALA	C-N-CA	-5.28	108.51	121.70
1	L	66	ALA	C-N-CA	-5.27	108.51	121.70
1	P	66	ALA	C-N-CA	-5.27	108.52	121.70
1	I	66	ALA	C-N-CA	-5.26	108.54	121.70
1	N	144	TYR	C-N-CA	5.25	134.83	121.70
1	O	66	ALA	C-N-CA	-5.25	108.58	121.70
1	K	66	ALA	C-N-CA	-5.24	108.59	121.70
1	B	64	ASP	CA-C-N	-5.24	105.67	117.20
1	M	66	ALA	C-N-CA	-5.23	108.62	121.70
1	F	66	ALA	N-CA-C	5.23	125.11	111.00
1	F	252	LEU	CB-CA-C	-5.22	100.28	110.20
1	L	252	LEU	CB-CA-C	-5.22	100.29	110.20
1	N	252	LEU	CB-CA-C	-5.22	100.28	110.20
1	P	263	VAL	O-C-N	5.22	132.07	123.20
1	G	252	LEU	CB-CA-C	-5.22	100.29	110.20
1	K	263	VAL	O-C-N	5.21	132.06	123.20
1	N	263	VAL	O-C-N	5.21	132.06	123.20
1	H	252	LEU	CB-CA-C	-5.21	100.30	110.20
1	I	252	LEU	CB-CA-C	-5.21	100.31	110.20
1	B	252	LEU	CB-CA-C	-5.20	100.31	110.20
1	J	252	LEU	CB-CA-C	-5.20	100.31	110.20
1	Q	252	LEU	CB-CA-C	-5.20	100.31	110.20
1	M	252	LEU	CB-CA-C	-5.20	100.32	110.20
1	K	252	LEU	CB-CA-C	-5.20	100.33	110.20
1	F	263	VAL	O-C-N	5.19	132.02	123.20
1	I	263	VAL	O-C-N	5.18	132.01	123.20
1	B	263	VAL	O-C-N	5.18	132.00	123.20
1	O	252	LEU	CB-CA-C	-5.17	100.38	110.20
1	M	263	VAL	O-C-N	5.17	131.98	123.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	263	VAL	O-C-N	5.17	131.98	123.20
1	P	252	LEU	CB-CA-C	-5.17	100.39	110.20
1	Q	263	VAL	O-C-N	5.16	131.98	123.20
1	O	263	VAL	O-C-N	5.16	131.97	123.20
1	J	263	VAL	O-C-N	5.15	131.95	123.20
1	L	263	VAL	O-C-N	5.14	131.94	123.20
1	H	263	VAL	O-C-N	5.14	131.94	123.20
1	J	175	TYR	C-N-CA	5.11	134.46	121.70
1	F	144	TYR	O-C-N	5.07	130.81	122.70
1	B	64	ASP	O-C-N	5.06	130.79	122.70
1	J	144	TYR	CA-C-N	-5.04	106.12	117.20
1	Q	264	GLY	CA-C-N	-5.03	106.14	116.20
1	F	264	GLY	CA-C-N	-5.01	106.18	116.20
1	H	264	GLY	CA-C-N	-5.01	106.19	116.20
1	B	264	GLY	CA-C-N	-5.00	106.19	116.20
1	J	264	GLY	CA-C-N	-5.00	106.19	116.20
1	M	264	GLY	CA-C-N	-5.00	106.19	116.20
1	P	264	GLY	CA-C-N	-5.00	106.19	116.20
1	L	264	GLY	CA-C-N	-5.00	106.19	116.20

There are no chirality outliers.

All (51) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	130	ASP	Mainchain
1	B	162	GLU	Mainchain
1	B	58	PRO	Mainchain
1	F	130	ASP	Mainchain
1	F	162	GLU	Mainchain
1	F	58	PRO	Mainchain
1	G	130	ASP	Mainchain
1	G	162	GLU	Mainchain
1	G	58	PRO	Mainchain
1	G	66	ALA	Mainchain
1	G	78	THR	Mainchain
1	H	130	ASP	Mainchain
1	H	162	GLU	Mainchain
1	H	58	PRO	Mainchain
1	H	66	ALA	Mainchain
1	I	130	ASP	Mainchain
1	I	162	GLU	Mainchain
1	I	58	PRO	Mainchain

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Mol	Chain	Res	Type	Group
1	I	66	ALA	Mainchain
1	J	130	ASP	Mainchain
1	J	162	GLU	Mainchain
1	J	58	PRO	Mainchain
1	J	66	ALA	Mainchain
1	K	130	ASP	Mainchain
1	K	162	GLU	Mainchain
1	K	58	PRO	Mainchain
1	K	66	ALA	Mainchain
1	L	130	ASP	Mainchain
1	L	162	GLU	Mainchain
1	L	58	PRO	Mainchain
1	L	66	ALA	Mainchain
1	M	130	ASP	Mainchain
1	M	162	GLU	Mainchain
1	M	58	PRO	Mainchain
1	M	66	ALA	Mainchain
1	N	130	ASP	Mainchain
1	N	162	GLU	Mainchain
1	N	58	PRO	Mainchain
1	N	66	ALA	Mainchain
1	O	130	ASP	Mainchain
1	O	162	GLU	Mainchain
1	O	58	PRO	Mainchain
1	O	66	ALA	Mainchain
1	P	130	ASP	Mainchain
1	P	162	GLU	Mainchain
1	P	58	PRO	Mainchain
1	P	66	ALA	Mainchain
1	Q	130	ASP	Mainchain
1	Q	162	GLU	Mainchain
1	Q	58	PRO	Mainchain
1	Q	66	ALA	Mainchain

## 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	B	2011	0	1955	359	0
1	F	2011	0	1952	486	0
1	G	2011	0	1949	494	0
1	H	2011	0	1951	489	0
1	I	2011	0	1951	484	0
1	J	2011	0	1950	487	0
1	K	2011	0	1951	487	0
1	L	2011	0	1950	496	0
1	M	2011	0	1951	488	0
1	N	2011	0	1951	495	0
1	O	2011	0	1951	495	0
1	P	2011	0	1951	498	0
1	Q	2011	0	1951	483	0
2	A	28	0	25	2	0
2	C	28	0	25	2	0
2	D	28	0	25	2	0
2	E	28	0	25	2	0
2	R	28	0	25	2	0
2	S	28	0	25	2	0
2	T	28	0	25	2	0
2	U	28	0	25	2	0
2	V	28	0	25	2	0
2	W	28	0	25	2	0
2	X	28	0	25	2	0
2	Y	28	0	25	2	0
2	Z	28	0	25	2	0
3	B	4	0	0	0	0
3	F	2	0	0	0	0
3	G	2	0	0	0	0
3	H	2	0	0	0	0
3	I	2	0	0	0	0
3	J	2	0	0	0	0
3	K	2	0	0	0	0
3	L	2	0	0	0	0
3	M	2	0	0	0	0
3	N	2	0	0	0	0
3	O	2	0	0	0	0
3	P	2	0	0	0	0
3	Q	3	0	0	0	0
3	X	1	0	0	0	0
All	All	26537	0	25689	5475	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 105.

All (5475) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:142:MET:HE3	1:H:152:MET:CE	1.33	1.59
1:L:142:MET:CE	1:L:152:MET:HE2	1.31	1.59
1:B:159:ILE:CG2	1:B:258:VAL:HG21	1.14	1.58
1:G:142:MET:CE	1:G:152:MET:HE2	1.31	1.58
1:H:159:ILE:CG2	1:H:258:VAL:HG21	1.14	1.58
1:F:159:ILE:CG2	1:F:258:VAL:HG21	1.14	1.57
1:P:142:MET:CE	1:P:152:MET:HE2	1.31	1.57
1:Q:142:MET:CE	1:Q:152:MET:HE2	1.26	1.57
1:Q:159:ILE:CG2	1:Q:258:VAL:HG21	1.14	1.57
1:O:159:ILE:CG2	1:O:258:VAL:HG21	1.14	1.56
1:I:159:ILE:CG2	1:I:258:VAL:HG21	1.14	1.56
1:F:142:MET:HE3	1:F:152:MET:CE	1.34	1.55
1:K:159:ILE:CG2	1:K:258:VAL:HG21	1.14	1.55
1:M:142:MET:CE	1:M:152:MET:HE2	1.31	1.55
1:M:159:ILE:CG2	1:M:258:VAL:HG21	1.14	1.55
1:L:159:ILE:CG2	1:L:258:VAL:HG21	1.14	1.55
1:P:142:MET:HE3	1:P:152:MET:CE	1.33	1.55
1:J:142:MET:HE3	1:J:152:MET:CE	1.34	1.55
1:I:142:MET:HE3	1:I:152:MET:CE	1.33	1.54
1:J:159:ILE:CG2	1:J:258:VAL:HG21	1.14	1.54
1:P:159:ILE:CG2	1:P:258:VAL:HG21	1.14	1.54
1:N:159:ILE:CG2	1:N:258:VAL:HG21	1.14	1.54
1:G:159:ILE:CG2	1:G:258:VAL:HG21	1.14	1.54
1:J:142:MET:CE	1:J:152:MET:HE2	1.34	1.53
1:K:142:MET:HE3	1:K:152:MET:CE	1.32	1.53
1:P:150:LEU:CD2	1:Q:290:LYS:HD3	1.38	1.53
1:F:150:LEU:CD2	1:G:290:LYS:HD3	1.38	1.52
1:I:290:LYS:HD3	1:K:150:LEU:CD2	1.38	1.52
1:J:150:LEU:CD2	1:K:290:LYS:HD3	1.38	1.52
1:N:142:MET:HE3	1:N:152:MET:CE	1.36	1.52
1:I:142:MET:CE	1:I:152:MET:HE2	1.39	1.52
1:L:150:LEU:CD2	1:M:290:LYS:HD3	1.38	1.52
1:O:150:LEU:CD2	1:P:290:LYS:HD3	1.38	1.52
1:O:290:LYS:HD3	1:Q:150:LEU:CD2	1.38	1.52
1:M:142:MET:HE3	1:M:152:MET:CE	1.36	1.52
1:L:290:LYS:HD3	1:N:150:LEU:CD2	1.38	1.51
1:Q:142:MET:HE3	1:Q:152:MET:CE	1.38	1.51
1:B:142:MET:HE3	1:B:152:MET:CE	1.34	1.51
1:F:150:LEU:HD21	1:G:290:LYS:CD	1.40	1.51
1:F:142:MET:CE	1:F:152:MET:HE2	1.39	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:150:LEU:CD2	1:J:290:LYS:HD3	1.38	1.50
1:O:290:LYS:CD	1:Q:150:LEU:HD21	1.40	1.50
1:P:150:LEU:HD21	1:Q:290:LYS:CD	1.39	1.50
1:J:150:LEU:HD21	1:K:290:LYS:CD	1.39	1.49
1:F:290:LYS:HD3	1:H:150:LEU:CD2	1.38	1.49
1:G:150:LEU:CD2	1:H:290:LYS:HD3	1.38	1.49
1:I:285:MET:HE1	1:K:276:THR:CA	1.41	1.49
1:I:290:LYS:CD	1:K:150:LEU:HD21	1.40	1.49
1:L:142:MET:HE3	1:L:152:MET:CE	1.37	1.49
1:L:290:LYS:CD	1:N:150:LEU:HD21	1.40	1.49
1:N:142:MET:CE	1:N:152:MET:HE2	1.38	1.49
1:G:142:MET:HE3	1:G:152:MET:CE	1.39	1.49
1:F:290:LYS:CD	1:H:150:LEU:HD21	1.40	1.48
1:G:150:LEU:HD21	1:H:290:LYS:CD	1.39	1.48
1:O:142:MET:HE3	1:O:152:MET:CE	1.38	1.48
1:M:72:GLN:O	1:M:76:PHE:CD1	1.67	1.48
1:O:276:THR:CA	1:P:285:MET:HE1	1.42	1.48
1:B:72:GLN:O	1:B:76:PHE:CD1	1.67	1.47
1:K:72:GLN:O	1:K:76:PHE:CD1	1.67	1.47
1:L:150:LEU:HD21	1:M:290:LYS:CD	1.40	1.47
1:G:72:GLN:O	1:G:76:PHE:CD1	1.67	1.47
1:I:276:THR:HA	1:J:285:MET:CE	1.00	1.47
1:N:72:GLN:O	1:N:76:PHE:CD1	1.67	1.47
1:O:150:LEU:HD21	1:P:290:LYS:CD	1.39	1.47
1:O:229:VAL:HG11	1:O:235:HIS:CE1	1.50	1.47
1:M:150:LEU:HD21	1:N:290:LYS:CD	1.40	1.47
1:Q:72:GLN:O	1:Q:76:PHE:CD1	1.67	1.47
1:I:150:LEU:HD21	1:J:290:LYS:CD	1.40	1.46
1:M:150:LEU:CD2	1:N:290:LYS:HD3	1.38	1.46
1:I:276:THR:CA	1:J:285:MET:HE1	1.45	1.46
1:M:276:THR:CA	1:N:285:MET:HE1	1.45	1.46
1:O:142:MET:CE	1:O:152:MET:HE2	1.43	1.46
1:P:72:GLN:O	1:P:76:PHE:CD1	1.67	1.46
1:G:276:THR:HA	1:H:285:MET:CE	1.00	1.46
1:H:72:GLN:O	1:H:76:PHE:CD1	1.67	1.46
1:I:229:VAL:HG11	1:I:235:HIS:CE1	1.50	1.46
1:Q:229:VAL:HG11	1:Q:235:HIS:CE1	1.50	1.46
1:I:285:MET:CE	1:K:276:THR:HA	1.00	1.46
1:J:72:GLN:O	1:J:76:PHE:CD1	1.67	1.46
1:O:72:GLN:O	1:O:76:PHE:CD1	1.67	1.46
1:L:82:CYS:HB2	1:L:135:CYS:SG	1.56	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:276:THR:HA	1:M:285:MET:CE	1.00	1.45
1:L:276:THR:CA	1:M:285:MET:HE1	1.45	1.45
1:O:82:CYS:HB2	1:O:135:CYS:SG	1.56	1.45
1:G:82:CYS:HB2	1:G:135:CYS:SG	1.56	1.45
1:J:229:VAL:HG11	1:J:235:HIS:CE1	1.50	1.45
1:M:229:VAL:HG11	1:M:235:HIS:CE1	1.50	1.45
1:O:285:MET:CE	1:Q:276:THR:HA	1.00	1.45
1:F:72:GLN:O	1:F:76:PHE:CD1	1.67	1.45
1:H:142:MET:CE	1:H:152:MET:CE	1.93	1.44
1:J:82:CYS:HB2	1:J:135:CYS:SG	1.56	1.44
1:F:229:VAL:HG11	1:F:235:HIS:CE1	1.50	1.44
1:I:82:CYS:HB2	1:I:135:CYS:SG	1.57	1.44
1:L:229:VAL:HG11	1:L:235:HIS:CE1	1.50	1.44
1:B:82:CYS:HB2	1:B:135:CYS:SG	1.56	1.44
1:B:142:MET:CE	1:B:152:MET:CE	1.93	1.44
1:I:72:GLN:O	1:I:76:PHE:CD1	1.67	1.44
1:N:82:CYS:HB2	1:N:135:CYS:SG	1.56	1.44
1:B:229:VAL:HG11	1:B:235:HIS:CE1	1.50	1.44
1:G:229:VAL:HG11	1:G:235:HIS:CE1	1.50	1.44
1:P:229:VAL:HG11	1:P:235:HIS:CE1	1.50	1.44
1:K:142:MET:CE	1:K:152:MET:CE	1.93	1.44
1:F:82:CYS:HB2	1:F:135:CYS:SG	1.56	1.43
1:F:276:THR:HA	1:G:285:MET:CE	1.00	1.43
1:J:276:THR:CA	1:K:285:MET:CE	1.94	1.43
1:Q:82:CYS:HB2	1:Q:135:CYS:SG	1.56	1.43
1:K:229:VAL:HG11	1:K:235:HIS:CE1	1.50	1.43
1:P:82:CYS:HB2	1:P:135:CYS:SG	1.57	1.43
1:H:82:CYS:HB2	1:H:135:CYS:SG	1.57	1.43
1:K:82:CYS:HB2	1:K:135:CYS:SG	1.56	1.43
1:G:79:SER:C	1:G:80:THR:N	1.69	1.42
1:M:276:THR:HA	1:N:285:MET:CE	1.00	1.42
1:N:229:VAL:HG11	1:N:235:HIS:CE1	1.50	1.42
1:F:276:THR:CA	1:G:285:MET:HE1	1.47	1.42
1:H:229:VAL:HG11	1:H:235:HIS:CE1	1.50	1.42
1:K:142:MET:CE	1:K:152:MET:HE3	1.47	1.42
1:L:72:GLN:O	1:L:76:PHE:CD1	1.67	1.42
1:G:276:THR:CA	1:H:285:MET:HE1	1.48	1.42
1:L:285:MET:CE	1:N:276:THR:HA	1.00	1.42
1:M:82:CYS:HB2	1:M:135:CYS:SG	1.56	1.42
1:N:128:SER:HA	1:N:155:LEU:CD1	1.50	1.42
1:F:128:SER:HA	1:F:155:LEU:CD1	1.50	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:285:MET:CE	1:N:276:THR:CA	1.94	1.41
1:F:285:MET:CE	1:H:276:THR:HA	1.00	1.41
1:Q:128:SER:HA	1:Q:155:LEU:CD1	1.51	1.41
1:N:142:MET:CE	1:N:152:MET:CE	1.93	1.41
1:B:142:MET:CE	1:B:152:MET:HE2	1.44	1.40
1:H:142:MET:CE	1:H:152:MET:HE2	1.46	1.40
1:I:142:MET:CE	1:I:152:MET:CE	1.94	1.40
1:F:142:MET:CE	1:F:152:MET:CE	1.93	1.40
1:K:128:SER:HA	1:K:155:LEU:CD1	1.50	1.40
1:M:128:SER:HA	1:M:155:LEU:CD1	1.50	1.40
1:I:128:SER:HA	1:I:155:LEU:CD1	1.51	1.40
1:F:290:LYS:CG	1:H:150:LEU:HD21	1.53	1.39
1:O:276:THR:HA	1:P:285:MET:CE	1.00	1.39
1:G:128:SER:HA	1:G:155:LEU:CD1	1.51	1.39
1:J:128:SER:HA	1:J:155:LEU:CD1	1.50	1.39
1:L:150:LEU:HD21	1:M:290:LYS:CG	1.53	1.39
1:L:290:LYS:CG	1:N:150:LEU:HD21	1.53	1.39
1:I:150:LEU:HD21	1:J:290:LYS:CG	1.53	1.39
1:J:276:THR:HA	1:K:285:MET:CE	1.00	1.39
1:H:128:SER:HA	1:H:155:LEU:CD1	1.50	1.38
1:O:142:MET:CE	1:O:152:MET:CE	1.94	1.38
1:O:128:SER:HA	1:O:155:LEU:CD1	1.50	1.38
1:O:285:MET:CE	1:Q:276:THR:CA	1.94	1.38
1:B:128:SER:HA	1:B:155:LEU:CD1	1.50	1.38
1:G:168:MET:HE2	1:G:175:TYR:CZ	1.56	1.38
1:J:150:LEU:HD21	1:K:290:LYS:CG	1.53	1.38
1:M:150:LEU:HD21	1:N:290:LYS:CG	1.53	1.38
1:P:276:THR:HA	1:Q:285:MET:CE	1.00	1.38
1:F:285:MET:HE1	1:H:276:THR:CA	1.51	1.37
1:O:290:LYS:CG	1:Q:150:LEU:HD21	1.53	1.37
1:L:128:SER:HA	1:L:155:LEU:CD1	1.50	1.37
1:P:128:SER:HA	1:P:155:LEU:CD1	1.50	1.37
1:J:276:THR:CA	1:K:285:MET:HE1	1.50	1.37
1:F:150:LEU:HD21	1:G:290:LYS:CG	1.53	1.37
1:P:276:THR:CA	1:Q:285:MET:HE1	1.47	1.37
1:O:150:LEU:HD21	1:P:290:LYS:CG	1.53	1.36
1:G:150:LEU:HD21	1:H:290:LYS:CG	1.53	1.36
1:M:64:ASP:O	1:M:65:THR:HG22	1.18	1.36
1:O:191:CYS:HA	1:O:244:CYS:SG	1.66	1.36
1:Q:191:CYS:HA	1:Q:244:CYS:SG	1.66	1.36
1:I:290:LYS:CG	1:K:150:LEU:HD21	1.53	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:162:GLU:O	1:M:252:LEU:HD21	1.18	1.36
1:N:191:CYS:HA	1:N:244:CYS:SG	1.66	1.36
1:G:150:LEU:HD12	1:H:288:ASN:OD1	1.18	1.35
1:J:191:CYS:HA	1:J:244:CYS:SG	1.66	1.35
1:N:64:ASP:O	1:N:65:THR:HG22	1.18	1.35
1:Q:64:ASP:O	1:Q:65:THR:HG22	1.18	1.35
1:G:64:ASP:O	1:G:65:THR:HG22	1.18	1.35
1:J:142:MET:CE	1:J:152:MET:CE	1.93	1.35
1:P:150:LEU:HD21	1:Q:290:LYS:CG	1.53	1.35
1:P:191:CYS:HA	1:P:244:CYS:SG	1.66	1.35
1:H:191:CYS:HA	1:H:244:CYS:SG	1.66	1.35
1:I:82:CYS:CB	1:I:135:CYS:SG	2.15	1.35
1:J:82:CYS:CB	1:J:135:CYS:SG	2.15	1.35
1:I:150:LEU:HD12	1:J:288:ASN:OD1	1.18	1.34
1:K:191:CYS:HA	1:K:244:CYS:SG	1.66	1.34
1:M:191:CYS:HA	1:M:244:CYS:SG	1.66	1.34
1:O:82:CYS:CB	1:O:135:CYS:SG	2.15	1.34
1:B:82:CYS:CB	1:B:135:CYS:SG	2.15	1.34
1:B:162:GLU:O	1:B:252:LEU:CD2	1.75	1.34
1:I:191:CYS:HA	1:I:244:CYS:SG	1.66	1.34
1:J:162:GLU:O	1:J:252:LEU:CD2	1.75	1.34
1:K:162:GLU:O	1:K:252:LEU:CD2	1.75	1.34
1:L:191:CYS:HA	1:L:244:CYS:SG	1.66	1.34
1:M:162:GLU:O	1:M:252:LEU:CD2	1.75	1.34
1:O:162:GLU:O	1:O:252:LEU:CD2	1.75	1.34
1:B:191:CYS:HA	1:B:244:CYS:SG	1.66	1.34
1:G:191:CYS:HA	1:G:244:CYS:SG	1.66	1.34
1:N:82:CYS:CB	1:N:135:CYS:SG	2.15	1.34
1:P:82:CYS:CB	1:P:135:CYS:SG	2.15	1.34
1:P:162:GLU:O	1:P:252:LEU:CD2	1.75	1.34
1:F:82:CYS:CB	1:F:135:CYS:SG	2.15	1.33
1:F:191:CYS:HA	1:F:244:CYS:SG	1.66	1.33
1:G:82:CYS:CB	1:G:135:CYS:SG	2.15	1.33
1:L:82:CYS:CB	1:L:135:CYS:SG	2.15	1.33
1:G:142:MET:CE	1:G:152:MET:CE	1.94	1.33
1:N:162:GLU:O	1:N:252:LEU:CD2	1.75	1.33
1:F:125:ALA:CB	1:F:223:LYS:HD3	1.59	1.33
1:M:82:CYS:CB	1:M:135:CYS:SG	2.15	1.33
1:P:125:ALA:CB	1:P:223:LYS:HD3	1.59	1.33
1:Q:82:CYS:CB	1:Q:135:CYS:SG	2.15	1.33
1:L:162:GLU:O	1:L:252:LEU:CD2	1.75	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:125:ALA:CB	1:G:223:LYS:HD3	1.59	1.33
1:H:162:GLU:O	1:H:252:LEU:CD2	1.75	1.33
1:I:162:GLU:O	1:I:252:LEU:CD2	1.75	1.33
1:L:150:LEU:HD12	1:M:288:ASN:OD1	1.18	1.33
1:Q:125:ALA:CB	1:Q:223:LYS:HD3	1.59	1.33
1:F:162:GLU:O	1:F:252:LEU:CD2	1.76	1.32
1:H:82:CYS:CB	1:H:135:CYS:SG	2.15	1.32
1:K:82:CYS:CB	1:K:135:CYS:SG	2.15	1.32
1:M:125:ALA:CB	1:M:223:LYS:HD3	1.59	1.32
1:L:142:MET:CE	1:L:152:MET:CE	1.93	1.32
1:P:64:ASP:O	1:P:65:THR:HG22	1.18	1.32
1:H:64:ASP:O	1:H:65:THR:HG22	1.18	1.32
1:L:125:ALA:CB	1:L:223:LYS:HD3	1.59	1.32
1:M:150:LEU:HD12	1:N:288:ASN:OD1	1.18	1.32
1:Q:162:GLU:O	1:Q:252:LEU:CD2	1.75	1.32
1:I:125:ALA:CB	1:I:223:LYS:HD3	1.59	1.31
1:J:125:ALA:CB	1:J:223:LYS:HD3	1.59	1.31
1:K:125:ALA:CB	1:K:223:LYS:HD3	1.59	1.31
1:K:162:GLU:O	1:K:252:LEU:HD21	1.18	1.31
1:F:285:MET:CE	1:H:276:THR:CA	1.94	1.30
1:G:162:GLU:O	1:G:252:LEU:CD2	1.75	1.30
1:N:125:ALA:CB	1:N:223:LYS:HD3	1.59	1.30
1:O:125:ALA:CB	1:O:223:LYS:HD3	1.59	1.30
1:Q:142:MET:CE	1:Q:152:MET:CE	1.93	1.30
1:B:125:ALA:CB	1:B:223:LYS:HD3	1.59	1.30
1:Q:159:ILE:CG2	1:Q:258:VAL:CG2	2.10	1.30
1:Q:162:GLU:O	1:Q:252:LEU:HD21	1.18	1.29
1:L:285:MET:HE1	1:N:276:THR:CA	1.54	1.29
1:L:288:ASN:OD1	1:N:150:LEU:HD12	1.18	1.29
1:O:288:ASN:OD1	1:Q:150:LEU:HD12	1.18	1.29
1:G:159:ILE:CG2	1:G:258:VAL:CG2	2.10	1.29
1:H:162:GLU:O	1:H:252:LEU:HD21	1.18	1.29
1:P:150:LEU:HD12	1:Q:288:ASN:OD1	1.18	1.29
1:H:125:ALA:CB	1:H:223:LYS:HD3	1.59	1.29
1:I:64:ASP:O	1:I:65:THR:HG22	1.18	1.29
1:M:159:ILE:CG2	1:M:258:VAL:CG2	2.10	1.29
1:J:159:ILE:CG2	1:J:258:VAL:CG2	2.10	1.29
1:L:162:GLU:O	1:L:252:LEU:HD21	1.18	1.29
1:Q:105:LEU:O	1:Q:108:THR:HG22	1.33	1.28
1:G:162:GLU:O	1:G:252:LEU:HD21	1.19	1.28
1:J:64:ASP:O	1:J:65:THR:HG22	1.18	1.28

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:159:ILE:CG2	1:L:258:VAL:CG2	2.10	1.28
1:B:162:GLU:O	1:B:252:LEU:HD21	1.18	1.28
1:G:129:VAL:C	1:G:131:PRO:HD2	1.54	1.28
1:H:129:VAL:C	1:H:131:PRO:HD2	1.54	1.28
1:I:129:VAL:C	1:I:131:PRO:HD2	1.54	1.28
1:I:159:ILE:CG2	1:I:258:VAL:CG2	2.10	1.28
1:I:168:MET:HE2	1:I:175:TYR:CZ	1.69	1.28
1:F:159:ILE:CG2	1:F:258:VAL:CG2	2.10	1.28
1:L:129:VAL:C	1:L:131:PRO:HD2	1.54	1.28
1:B:127:PHE:CD2	1:B:155:LEU:HD21	1.69	1.27
1:J:105:LEU:O	1:J:108:THR:HG22	1.33	1.27
1:K:129:VAL:C	1:K:131:PRO:HD2	1.54	1.27
1:P:159:ILE:CG2	1:P:258:VAL:CG2	2.10	1.27
1:F:64:ASP:O	1:F:65:THR:HG22	1.18	1.27
1:I:127:PHE:CD2	1:I:155:LEU:HD21	1.69	1.27
1:N:159:ILE:CG2	1:N:258:VAL:CG2	2.10	1.27
1:N:168:MET:HE1	1:N:175:TYR:CZ	1.68	1.27
1:O:162:GLU:O	1:O:252:LEU:HD21	1.18	1.27
1:P:162:GLU:O	1:P:252:LEU:HD21	1.18	1.27
1:L:127:PHE:CD2	1:L:155:LEU:HD21	1.69	1.27
1:N:129:VAL:C	1:N:131:PRO:HD2	1.54	1.27
1:F:162:GLU:O	1:F:252:LEU:HD21	1.18	1.27
1:F:289:TRP:O	1:H:150:LEU:HD22	1.35	1.27
1:O:159:ILE:CG2	1:O:258:VAL:CG2	2.10	1.27
1:Q:129:VAL:C	1:Q:131:PRO:HD2	1.54	1.27
1:F:127:PHE:CD2	1:F:155:LEU:HD21	1.69	1.27
1:F:288:ASN:OD1	1:H:150:LEU:HD12	1.18	1.27
1:G:276:THR:CA	1:H:285:MET:CE	1.94	1.27
1:J:150:LEU:HD12	1:K:288:ASN:OD1	1.18	1.27
1:J:162:GLU:O	1:J:252:LEU:HD21	1.18	1.27
1:L:64:ASP:O	1:L:65:THR:HG22	1.18	1.27
1:M:127:PHE:CD2	1:M:155:LEU:HD21	1.69	1.27
1:P:129:VAL:C	1:P:131:PRO:HD2	1.54	1.27
1:H:159:ILE:CG2	1:H:258:VAL:CG2	2.10	1.26
1:I:288:ASN:OD1	1:K:150:LEU:HD12	1.18	1.26
1:B:129:VAL:C	1:B:131:PRO:HD2	1.54	1.26
1:F:150:LEU:HD12	1:G:288:ASN:OD1	1.18	1.26
1:G:168:MET:CE	1:G:175:TYR:CE1	2.18	1.26
1:J:129:VAL:C	1:J:131:PRO:HD2	1.54	1.26
1:K:168:MET:CE	1:K:175:TYR:CE1	2.18	1.26
1:M:142:MET:CE	1:M:152:MET:CE	1.93	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:127:PHE:CD2	1:N:155:LEU:HD21	1.69	1.26
1:O:105:LEU:O	1:O:108:THR:HG22	1.33	1.26
1:Q:168:MET:CE	1:Q:175:TYR:CE1	2.18	1.26
1:N:168:MET:CE	1:N:175:TYR:CE1	2.18	1.26
1:O:127:PHE:CD2	1:O:155:LEU:HD21	1.69	1.26
1:O:150:LEU:HD12	1:P:288:ASN:OD1	1.18	1.26
1:G:127:PHE:CD2	1:G:155:LEU:HD21	1.69	1.26
1:K:64:ASP:O	1:K:65:THR:HG22	1.18	1.26
1:K:159:ILE:CG2	1:K:258:VAL:CG2	2.10	1.26
1:L:168:MET:CE	1:L:175:TYR:CE1	2.18	1.26
1:L:168:MET:HE1	1:L:175:TYR:CZ	1.69	1.26
1:N:105:LEU:O	1:N:108:THR:HG22	1.33	1.26
1:P:168:MET:CE	1:P:175:TYR:CE1	2.18	1.26
1:B:159:ILE:CG2	1:B:258:VAL:CG2	2.10	1.26
1:B:168:MET:CE	1:B:175:TYR:CE1	2.18	1.26
1:G:105:LEU:O	1:G:108:THR:HG22	1.33	1.26
1:G:150:LEU:HD22	1:H:289:TRP:O	1.35	1.26
1:G:229:VAL:CG1	1:G:235:HIS:HE1	1.49	1.26
1:K:127:PHE:CD2	1:K:155:LEU:HD21	1.69	1.26
1:O:129:VAL:C	1:O:131:PRO:HD2	1.54	1.26
1:F:168:MET:CE	1:F:175:TYR:CE1	2.18	1.25
1:I:229:VAL:CG1	1:I:235:HIS:HE1	1.49	1.25
1:J:127:PHE:CD2	1:J:155:LEU:HD21	1.69	1.25
1:O:64:ASP:O	1:O:65:THR:HG22	1.18	1.25
1:F:150:LEU:HD22	1:G:289:TRP:O	1.35	1.25
1:H:127:PHE:CD2	1:H:155:LEU:HD21	1.69	1.25
1:M:105:LEU:O	1:M:108:THR:HG22	1.33	1.25
1:M:129:VAL:C	1:M:131:PRO:HD2	1.54	1.25
1:N:162:GLU:O	1:N:252:LEU:HD21	1.18	1.25
1:Q:127:PHE:CD2	1:Q:155:LEU:HD21	1.69	1.25
1:I:168:MET:CE	1:I:175:TYR:CE1	2.18	1.25
1:K:105:LEU:O	1:K:108:THR:HG22	1.33	1.25
1:F:265:GLY:O	1:H:149:GLN:NE2	1.69	1.25
1:M:168:MET:CE	1:M:175:TYR:CE1	2.18	1.25
1:P:229:VAL:CG1	1:P:235:HIS:HE1	1.49	1.25
1:F:229:VAL:CG1	1:F:235:HIS:HE1	1.49	1.25
1:H:229:VAL:CG1	1:H:235:HIS:HE1	1.49	1.25
1:J:150:LEU:HD22	1:K:289:TRP:O	1.35	1.25
1:M:150:LEU:HD22	1:N:289:TRP:O	1.35	1.25
1:M:229:VAL:CG1	1:M:235:HIS:HE1	1.49	1.25
1:O:168:MET:CE	1:O:175:TYR:CE1	2.18	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:105:LEU:O	1:F:108:THR:HG22	1.33	1.25
1:F:129:VAL:C	1:F:131:PRO:HD2	1.54	1.25
1:P:127:PHE:CD2	1:P:155:LEU:HD21	1.69	1.25
1:H:168:MET:CE	1:H:175:TYR:CE1	2.18	1.24
1:I:105:LEU:O	1:I:108:THR:HG22	1.33	1.24
1:L:150:LEU:HD22	1:M:289:TRP:O	1.35	1.24
1:P:142:MET:CE	1:P:152:MET:CE	1.93	1.24
1:I:162:GLU:O	1:I:252:LEU:HD21	1.18	1.24
1:O:150:LEU:HD22	1:P:289:TRP:O	1.35	1.24
1:J:168:MET:CE	1:J:175:TYR:CE1	2.18	1.24
1:L:149:GLN:NE2	1:M:265:GLY:O	1.68	1.24
1:N:167:PRO:HG3	1:P:134:TYR:OH	1.31	1.24
1:J:229:VAL:CG1	1:J:235:HIS:HE1	1.49	1.24
1:O:289:TRP:O	1:Q:150:LEU:HD22	1.35	1.24
1:P:276:THR:CA	1:Q:285:MET:CE	1.94	1.24
1:M:251:LYS:HG3	1:M:252:LEU:N	1.40	1.24
1:I:150:LEU:HD22	1:J:289:TRP:O	1.35	1.23
1:K:229:VAL:CG1	1:K:235:HIS:HE1	1.49	1.23
1:B:229:VAL:CG1	1:B:235:HIS:HE1	1.49	1.23
1:H:105:LEU:O	1:H:108:THR:HG22	1.33	1.23
1:N:229:VAL:CG1	1:N:235:HIS:HE1	1.49	1.23
1:Q:229:VAL:CG1	1:Q:235:HIS:HE1	1.49	1.23
1:L:105:LEU:O	1:L:108:THR:HG22	1.33	1.23
1:L:229:VAL:CG1	1:L:235:HIS:HE1	1.49	1.23
1:O:229:VAL:CG1	1:O:235:HIS:HE1	1.49	1.23
1:I:285:MET:HG2	1:K:275:PRO:CB	1.62	1.23
1:M:168:MET:HE1	1:M:175:TYR:CE1	1.74	1.22
1:Q:251:LYS:HG3	1:Q:252:LEU:N	1.40	1.22
1:J:251:LYS:HG3	1:J:252:LEU:N	1.39	1.22
1:P:105:LEU:O	1:P:108:THR:HG22	1.33	1.22
1:B:105:LEU:O	1:B:108:THR:HG22	1.33	1.22
1:O:168:MET:HE1	1:O:175:TYR:CE1	1.75	1.22
1:H:168:MET:HE1	1:H:175:TYR:CE1	1.74	1.22
1:J:149:GLN:NE2	1:K:265:GLY:O	1.71	1.22
1:M:149:GLN:NE2	1:N:265:GLY:O	1.71	1.22
1:L:265:GLY:O	1:N:149:GLN:NE2	1.71	1.22
1:P:150:LEU:HD22	1:Q:289:TRP:O	1.35	1.22
1:I:265:GLY:O	1:K:149:GLN:NE2	1.71	1.21
1:L:251:LYS:HG3	1:L:252:LEU:N	1.39	1.21
1:P:149:GLN:NE2	1:Q:265:GLY:O	1.71	1.21
1:F:205:ILE:CD1	1:G:104:GLN:OE1	1.89	1.21

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:205:ILE:CD1	1:H:104:GLN:OE1	1.89	1.21
1:L:104:GLN:OE1	1:N:205:ILE:CD1	1.89	1.21
1:O:104:GLN:OE1	1:Q:205:ILE:CD1	1.89	1.21
1:Q:168:MET:HE2	1:Q:175:TYR:CE1	1.76	1.21
1:J:150:LEU:CD2	1:K:290:LYS:CD	2.07	1.21
1:M:205:ILE:CD1	1:N:104:GLN:OE1	1.89	1.21
1:O:205:ILE:CD1	1:P:104:GLN:OE1	1.89	1.21
1:G:149:GLN:NE2	1:H:265:GLY:O	1.71	1.21
1:G:275:PRO:CB	1:H:285:MET:HG2	1.62	1.21
1:I:289:TRP:O	1:K:150:LEU:HD22	1.35	1.21
1:P:168:MET:HE1	1:P:175:TYR:CE1	1.74	1.21
1:B:64:ASP:O	1:B:65:THR:HG22	1.39	1.21
1:L:289:TRP:O	1:N:150:LEU:HD22	1.35	1.21
1:F:149:GLN:NE2	1:G:265:GLY:O	1.71	1.20
1:I:149:GLN:NE2	1:J:265:GLY:O	1.71	1.20
1:L:257:ASN:O	1:L:258:VAL:O	1.60	1.20
1:I:205:ILE:CD1	1:J:104:GLN:OE1	1.89	1.20
1:J:205:ILE:CD1	1:K:104:GLN:OE1	1.89	1.20
1:J:257:ASN:O	1:J:258:VAL:O	1.60	1.20
1:M:257:ASN:O	1:M:258:VAL:O	1.60	1.20
1:B:128:SER:CB	1:B:155:LEU:HD13	1.72	1.20
1:F:104:GLN:OE1	1:H:205:ILE:CD1	1.89	1.20
1:H:128:SER:CB	1:H:155:LEU:HD13	1.72	1.20
1:H:257:ASN:O	1:H:258:VAL:O	1.60	1.20
1:I:275:PRO:CB	1:J:285:MET:HG2	1.62	1.20
1:J:168:MET:HE1	1:J:175:TYR:CE1	1.74	1.20
1:O:149:GLN:NE2	1:P:265:GLY:O	1.71	1.20
1:O:285:MET:HG2	1:Q:275:PRO:CB	1.62	1.20
1:P:205:ILE:CD1	1:Q:104:GLN:OE1	1.89	1.20
1:I:104:GLN:OE1	1:K:205:ILE:CD1	1.89	1.20
1:M:276:THR:CA	1:N:285:MET:CE	1.94	1.20
1:P:128:SER:CB	1:P:155:LEU:HD13	1.72	1.20
1:L:205:ILE:CD1	1:M:104:GLN:OE1	1.89	1.20
1:F:285:MET:HG2	1:H:275:PRO:CB	1.62	1.19
1:G:257:ASN:O	1:G:258:VAL:O	1.60	1.19
1:L:150:LEU:CD1	1:M:288:ASN:OD1	1.91	1.19
1:O:265:GLY:O	1:Q:149:GLN:NE2	1.71	1.19
1:F:150:LEU:CD1	1:G:288:ASN:OD1	1.91	1.19
1:F:168:MET:HE1	1:F:175:TYR:CE1	1.74	1.19
1:F:288:ASN:OD1	1:H:150:LEU:CD1	1.91	1.19
1:F:290:LYS:CD	1:H:150:LEU:CD2	2.07	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:257:ASN:O	1:N:258:VAL:O	1.60	1.19
1:I:290:LYS:CD	1:K:150:LEU:CD2	2.07	1.19
1:J:128:SER:CB	1:J:155:LEU:HD13	1.72	1.19
1:K:168:MET:HE1	1:K:175:TYR:CZ	1.78	1.19
1:L:150:LEU:CD2	1:M:290:LYS:CD	2.07	1.19
1:O:285:MET:HE1	1:Q:276:THR:CA	1.59	1.19
1:P:69:ASN:HD22	2:Y:1:NAG:C1	1.56	1.19
1:P:82:CYS:SG	1:P:135:CYS:HB3	1.83	1.19
1:P:150:LEU:CD1	1:Q:288:ASN:OD1	1.90	1.19
1:B:82:CYS:SG	1:B:135:CYS:HB3	1.83	1.18
1:G:82:CYS:SG	1:G:135:CYS:HB3	1.83	1.18
1:I:257:ASN:O	1:I:258:VAL:O	1.60	1.18
1:L:288:ASN:OD1	1:N:150:LEU:CD1	1.91	1.18
1:M:150:LEU:CD1	1:N:288:ASN:OD1	1.90	1.18
1:B:168:MET:HE2	1:B:175:TYR:CZ	1.78	1.18
1:F:257:ASN:O	1:F:258:VAL:O	1.60	1.18
1:H:82:CYS:SG	1:H:135:CYS:HB3	1.84	1.18
1:I:128:SER:CB	1:I:155:LEU:HD13	1.72	1.18
1:L:128:SER:CB	1:L:155:LEU:HD13	1.72	1.18
1:M:150:LEU:CD2	1:N:290:LYS:CD	2.07	1.18
1:O:288:ASN:OD1	1:Q:150:LEU:CD1	1.91	1.18
1:O:290:LYS:CD	1:Q:150:LEU:CD2	2.07	1.18
1:J:69:ASN:HD22	2:S:1:NAG:C1	1.56	1.18
1:M:128:SER:CB	1:M:155:LEU:HD13	1.72	1.18
1:N:69:ASN:HD22	2:W:1:NAG:C1	1.56	1.18
1:B:168:MET:HE1	1:B:175:TYR:CE1	1.75	1.18
1:F:82:CYS:SG	1:F:135:CYS:HB3	1.83	1.18
1:G:128:SER:CB	1:G:155:LEU:HD13	1.72	1.18
1:G:150:LEU:CD1	1:H:288:ASN:OD1	1.91	1.18
1:H:130:ASP:N	1:H:131:PRO:CD	2.07	1.18
1:I:150:LEU:CD2	1:J:290:LYS:CD	2.07	1.18
1:I:150:LEU:CD1	1:J:288:ASN:OD1	1.91	1.18
1:J:130:ASP:N	1:J:131:PRO:CD	2.07	1.18
1:J:150:LEU:CD1	1:K:288:ASN:OD1	1.91	1.18
1:K:128:SER:CB	1:K:155:LEU:HD13	1.72	1.18
1:M:275:PRO:CB	1:N:285:MET:HG2	1.62	1.18
1:F:128:SER:CB	1:F:155:LEU:HD13	1.72	1.18
1:I:285:MET:HE3	1:K:276:THR:HA	1.18	1.18
1:K:82:CYS:SG	1:K:135:CYS:HB3	1.83	1.18
1:M:130:ASP:N	1:M:131:PRO:CD	2.07	1.18
1:N:130:ASP:N	1:N:131:PRO:CD	2.07	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:82:CYS:SG	1:O:135:CYS:HB3	1.83	1.18
1:O:128:SER:CB	1:O:155:LEU:HD13	1.72	1.18
1:Q:82:CYS:SG	1:Q:135:CYS:HB3	1.83	1.18
1:Q:257:ASN:O	1:Q:258:VAL:O	1.60	1.18
1:F:150:LEU:CD2	1:G:290:LYS:CD	2.07	1.17
1:G:130:ASP:N	1:G:131:PRO:CD	2.07	1.17
1:L:130:ASP:N	1:L:131:PRO:CD	2.07	1.17
1:N:128:SER:CB	1:N:155:LEU:HD13	1.72	1.17
1:O:130:ASP:N	1:O:131:PRO:CD	2.07	1.17
1:F:130:ASP:N	1:F:131:PRO:CD	2.07	1.17
1:K:257:ASN:O	1:K:258:VAL:O	1.60	1.17
1:L:168:MET:HE1	1:L:175:TYR:CE1	1.78	1.17
1:O:150:LEU:CD1	1:P:288:ASN:OD1	1.91	1.17
1:O:159:ILE:HG22	1:O:258:VAL:HG21	1.24	1.17
1:Q:168:MET:HE2	1:Q:175:TYR:CZ	1.78	1.17
1:L:82:CYS:SG	1:L:135:CYS:HB3	1.83	1.17
1:Q:128:SER:CB	1:Q:155:LEU:HD13	1.72	1.17
1:B:130:ASP:N	1:B:131:PRO:CD	2.07	1.17
1:B:257:ASN:O	1:B:258:VAL:O	1.60	1.17
1:I:82:CYS:SG	1:I:135:CYS:HB3	1.83	1.17
1:J:128:SER:CA	1:J:155:LEU:HD13	1.75	1.17
1:N:82:CYS:SG	1:N:135:CYS:HB3	1.83	1.17
1:P:257:ASN:O	1:P:258:VAL:O	1.60	1.17
1:I:288:ASN:OD1	1:K:150:LEU:CD1	1.90	1.17
1:K:130:ASP:N	1:K:131:PRO:CD	2.07	1.17
1:L:128:SER:CA	1:L:155:LEU:HD13	1.75	1.17
1:M:128:SER:CA	1:M:155:LEU:HD13	1.75	1.17
1:P:275:PRO:CB	1:Q:285:MET:HG2	1.62	1.17
1:Q:128:SER:CA	1:Q:155:LEU:HD13	1.75	1.17
1:G:128:SER:CA	1:G:155:LEU:HD13	1.75	1.16
1:I:130:ASP:N	1:I:131:PRO:CD	2.07	1.16
1:J:82:CYS:SG	1:J:135:CYS:HB3	1.84	1.16
1:K:159:ILE:HG22	1:K:258:VAL:HG21	1.24	1.16
1:L:69:ASN:HD22	2:U:1:NAG:C1	1.59	1.16
1:L:159:ILE:HG22	1:L:258:VAL:HG21	1.24	1.16
1:L:285:MET:HG2	1:N:275:PRO:CB	1.62	1.16
1:M:69:ASN:HD22	2:V:1:NAG:C1	1.56	1.16
1:Q:130:ASP:N	1:Q:131:PRO:CD	2.07	1.16
1:K:142:MET:CE	1:K:152:MET:HE2	1.73	1.16
1:M:82:CYS:SG	1:M:135:CYS:HB3	1.83	1.16
1:O:128:SER:CA	1:O:155:LEU:HD13	1.75	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:128:SER:CA	1:B:155:LEU:HD13	1.75	1.16
1:H:159:ILE:HG22	1:H:258:VAL:HG21	1.24	1.16
1:O:257:ASN:O	1:O:258:VAL:O	1.60	1.16
1:G:69:ASN:HD22	2:D:1:NAG:C1	1.57	1.16
1:I:168:MET:HE1	1:I:175:TYR:CE1	1.78	1.16
1:F:69:ASN:HD22	2:C:1:NAG:C1	1.58	1.15
1:F:128:SER:CA	1:F:155:LEU:HD13	1.75	1.15
1:H:69:ASN:HD22	2:E:1:NAG:C1	1.59	1.15
1:K:168:MET:HE1	1:K:175:TYR:CE1	1.75	1.15
1:L:174:TYR:CD1	1:L:198:LEU:CD1	2.29	1.15
1:M:174:TYR:CD1	1:M:198:LEU:CD1	2.29	1.15
1:N:128:SER:CA	1:N:155:LEU:HD13	1.75	1.15
1:P:130:ASP:N	1:P:131:PRO:CD	2.07	1.15
1:H:128:SER:CA	1:H:155:LEU:HD13	1.75	1.15
1:H:174:TYR:CD1	1:H:198:LEU:CD1	2.29	1.15
1:I:128:SER:CA	1:I:155:LEU:HD13	1.75	1.15
1:O:251:LYS:HG3	1:O:252:LEU:N	1.39	1.15
1:B:191:CYS:CA	1:B:244:CYS:SG	2.35	1.15
1:K:128:SER:CA	1:K:155:LEU:HD13	1.75	1.15
1:F:191:CYS:CA	1:F:244:CYS:SG	2.35	1.15
1:H:191:CYS:CA	1:H:244:CYS:SG	2.35	1.15
1:O:174:TYR:CD1	1:O:198:LEU:CD1	2.29	1.15
1:K:174:TYR:CD1	1:K:198:LEU:CD1	2.29	1.15
1:K:251:LYS:HG3	1:K:252:LEU:N	1.39	1.15
1:L:276:THR:CA	1:M:285:MET:CE	1.94	1.15
1:P:150:LEU:CD2	1:Q:290:LYS:CD	2.07	1.15
1:P:191:CYS:CA	1:P:244:CYS:SG	2.35	1.15
1:G:174:TYR:CD1	1:G:198:LEU:CD1	2.29	1.14
1:N:168:MET:HE1	1:N:175:TYR:CE1	1.78	1.14
1:O:142:MET:CE	1:O:152:MET:HE1	1.78	1.14
1:Q:191:CYS:CA	1:Q:244:CYS:SG	2.35	1.14
1:B:174:TYR:CD1	1:B:198:LEU:CD1	2.29	1.14
1:F:174:TYR:CD1	1:F:198:LEU:CD1	2.29	1.14
1:F:275:PRO:CB	1:G:285:MET:HG2	1.62	1.14
1:P:128:SER:CA	1:P:155:LEU:HD13	1.75	1.14
1:H:229:VAL:CG1	1:H:235:HIS:CE1	2.27	1.14
1:I:128:SER:HA	1:I:155:LEU:HD11	1.29	1.14
1:I:174:TYR:CD1	1:I:198:LEU:CD1	2.29	1.14
1:J:174:TYR:CD1	1:J:198:LEU:CD1	2.29	1.14
1:N:191:CYS:CA	1:N:244:CYS:SG	2.35	1.14
1:O:191:CYS:CA	1:O:244:CYS:SG	2.35	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:174:TYR:CD1	1:P:198:LEU:CD1	2.29	1.14
1:B:159:ILE:HG22	1:B:258:VAL:HG21	1.24	1.14
1:I:69:ASN:HD22	2:R:1:NAG:C1	1.60	1.14
1:J:191:CYS:CA	1:J:244:CYS:SG	2.35	1.14
1:N:159:ILE:HG22	1:N:258:VAL:HG21	1.24	1.14
1:N:174:TYR:CD1	1:N:198:LEU:CD1	2.29	1.14
1:Q:174:TYR:CD1	1:Q:198:LEU:CD1	2.29	1.14
1:I:191:CYS:CA	1:I:244:CYS:SG	2.35	1.14
1:L:290:LYS:HG2	1:N:150:LEU:HD21	1.30	1.14
1:Q:69:ASN:HD22	2:Z:1:NAG:C1	1.61	1.14
1:G:150:LEU:CD2	1:H:290:LYS:CD	2.07	1.13
1:H:126:SER:HA	1:H:223:LYS:HZ1	1.08	1.13
1:M:128:SER:HA	1:M:155:LEU:HD11	1.29	1.13
1:M:191:CYS:CA	1:M:244:CYS:SG	2.35	1.13
1:F:229:VAL:CG1	1:F:235:HIS:CE1	2.27	1.13
1:G:191:CYS:CA	1:G:244:CYS:SG	2.35	1.13
1:L:191:CYS:CA	1:L:244:CYS:SG	2.35	1.13
1:G:150:LEU:HD21	1:H:290:LYS:HG2	1.30	1.13
1:M:159:ILE:HG22	1:M:258:VAL:HG21	1.24	1.13
1:B:168:MET:CE	1:B:175:TYR:CZ	2.32	1.13
1:G:229:VAL:CG1	1:G:235:HIS:CE1	2.27	1.13
1:I:168:MET:CE	1:I:175:TYR:CZ	2.32	1.13
1:K:126:SER:HA	1:K:223:LYS:HZ1	1.13	1.13
1:P:229:VAL:CG1	1:P:235:HIS:CE1	2.27	1.13
1:B:142:MET:CE	1:B:152:MET:HE1	1.76	1.12
1:B:257:ASN:O	1:B:310:MET:SD	2.07	1.13
1:I:126:SER:HA	1:I:223:LYS:HZ1	1.10	1.13
1:I:174:TYR:CD1	1:I:198:LEU:HD12	1.85	1.12
1:K:69:ASN:HD22	2:T:1:NAG:C1	1.60	1.12
1:K:257:ASN:O	1:K:310:MET:SD	2.07	1.13
1:L:275:PRO:CB	1:M:285:MET:HG2	1.62	1.13
1:N:257:ASN:O	1:N:310:MET:SD	2.07	1.13
1:O:275:PRO:CB	1:P:285:MET:HG2	1.62	1.13
1:K:191:CYS:CA	1:K:244:CYS:SG	2.35	1.12
1:O:168:MET:CE	1:O:175:TYR:CZ	2.32	1.12
1:P:128:SER:HA	1:P:155:LEU:HD11	1.29	1.12
1:P:174:TYR:CD1	1:P:198:LEU:HD12	1.84	1.12
1:Q:174:TYR:CD1	1:Q:198:LEU:HD12	1.85	1.12
1:Q:257:ASN:O	1:Q:310:MET:SD	2.07	1.12
1:G:168:MET:CE	1:G:175:TYR:CZ	2.32	1.12
1:H:168:MET:CE	1:H:175:TYR:CZ	2.32	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:257:ASN:O	1:J:310:MET:SD	2.07	1.12
1:P:159:ILE:HG22	1:P:258:VAL:HG21	1.24	1.12
1:B:174:TYR:CD1	1:B:198:LEU:HD12	1.85	1.12
1:F:128:SER:HA	1:F:155:LEU:HD11	1.29	1.12
1:H:257:ASN:O	1:H:310:MET:SD	2.07	1.12
1:I:159:ILE:HG22	1:I:258:VAL:HG21	1.24	1.12
1:P:257:ASN:O	1:P:310:MET:SD	2.07	1.12
1:Q:72:GLN:O	1:Q:76:PHE:HD1	1.10	1.12
1:G:257:ASN:O	1:G:310:MET:SD	2.07	1.12
1:K:174:TYR:CD1	1:K:198:LEU:HD12	1.85	1.12
1:L:174:TYR:CD1	1:L:198:LEU:HD12	1.85	1.12
1:N:229:VAL:CG1	1:N:235:HIS:CE1	2.27	1.12
1:K:168:MET:CE	1:K:175:TYR:CZ	2.32	1.12
1:M:168:MET:CE	1:M:175:TYR:CZ	2.32	1.12
1:N:64:ASP:O	1:N:65:THR:CG2	1.98	1.12
1:N:174:TYR:CD1	1:N:198:LEU:HD12	1.85	1.12
1:F:168:MET:CE	1:F:175:TYR:CZ	2.32	1.11
1:F:257:ASN:O	1:F:310:MET:SD	2.07	1.11
1:G:64:ASP:O	1:G:65:THR:CG2	1.98	1.11
1:J:168:MET:CE	1:J:175:TYR:CZ	2.32	1.11
1:J:174:TYR:CD1	1:J:198:LEU:HD12	1.85	1.11
1:M:174:TYR:CD1	1:M:198:LEU:HD12	1.85	1.11
1:M:257:ASN:O	1:M:310:MET:SD	2.07	1.11
1:O:257:ASN:O	1:O:310:MET:SD	2.07	1.11
1:Q:159:ILE:HG22	1:Q:258:VAL:HG21	1.24	1.11
1:F:276:THR:HA	1:G:285:MET:HE3	1.13	1.11
1:G:251:LYS:HG3	1:G:252:LEU:N	1.39	1.11
1:I:290:LYS:HG2	1:K:150:LEU:HD21	1.30	1.11
1:O:168:MET:HE1	1:O:175:TYR:CZ	1.84	1.11
1:P:168:MET:CE	1:P:175:TYR:CZ	2.32	1.11
1:L:257:ASN:O	1:L:310:MET:SD	2.07	1.11
1:O:174:TYR:CD1	1:O:198:LEU:HD12	1.85	1.11
1:G:174:TYR:CD1	1:G:198:LEU:HD12	1.85	1.11
1:H:174:TYR:CD1	1:H:198:LEU:HD12	1.85	1.11
1:I:64:ASP:O	1:I:65:THR:CG2	1.98	1.11
1:I:144:TYR:CE2	1:I:146:ALA:HB2	1.85	1.11
1:K:229:VAL:CG1	1:K:235:HIS:CE1	2.27	1.11
1:L:168:MET:CE	1:L:175:TYR:CZ	2.32	1.11
1:M:69:ASN:ND2	2:V:1:NAG:C1	2.13	1.11
1:O:69:ASN:HD22	2:X:1:NAG:C1	1.63	1.11
1:O:72:GLN:O	1:O:76:PHE:HD1	1.10	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:126:SER:HA	1:P:223:LYS:HZ1	1.05	1.11
1:Q:168:MET:CE	1:Q:175:TYR:CZ	2.32	1.11
1:H:64:ASP:O	1:H:65:THR:CG2	1.98	1.11
1:H:251:LYS:HG3	1:H:252:LEU:N	1.40	1.11
1:J:69:ASN:ND2	2:S:1:NAG:C1	2.14	1.11
1:Q:66:ALA:O	1:Q:67:TYR:C	1.80	1.11
1:I:150:LEU:HD21	1:J:290:LYS:HG2	1.30	1.10
1:J:64:ASP:O	1:J:65:THR:CG2	1.98	1.10
1:N:117:TYR:CE2	1:P:167:PRO:O	2.04	1.10
1:B:69:ASN:ND2	2:A:1:NAG:C1	2.14	1.10
1:I:257:ASN:O	1:I:310:MET:SD	2.07	1.10
1:J:150:LEU:HD21	1:K:290:LYS:HG2	1.30	1.10
1:L:229:VAL:CG1	1:L:235:HIS:CE1	2.27	1.10
1:M:64:ASP:O	1:M:65:THR:CG2	1.98	1.10
1:O:290:LYS:HG2	1:Q:150:LEU:HD21	1.30	1.10
1:P:144:TYR:CE2	1:P:146:ALA:HB2	1.86	1.10
1:J:275:PRO:CB	1:K:285:MET:HG2	1.62	1.10
1:N:251:LYS:HG3	1:N:252:LEU:N	1.39	1.10
1:B:72:GLN:O	1:B:76:PHE:HD1	1.10	1.10
1:F:64:ASP:O	1:F:65:THR:CG2	1.98	1.10
1:F:290:LYS:HG2	1:H:150:LEU:HD21	1.30	1.10
1:G:276:THR:HA	1:H:285:MET:HE3	1.12	1.10
1:O:124:ILE:HD13	1:O:152:MET:HG2	1.34	1.10
1:P:64:ASP:O	1:P:65:THR:CG2	1.98	1.10
1:I:229:VAL:CG1	1:I:235:HIS:CE1	2.27	1.10
1:J:276:THR:HA	1:K:285:MET:HE3	1.10	1.10
1:K:64:ASP:O	1:K:65:THR:CG2	1.98	1.10
1:L:124:ILE:HD13	1:L:152:MET:HG2	1.34	1.10
1:L:275:PRO:HB2	1:M:285:MET:CG	1.82	1.10
1:N:128:SER:HA	1:N:155:LEU:HD11	1.29	1.10
1:G:125:ALA:HB1	1:G:223:LYS:CD	1.82	1.09
1:I:251:LYS:HG3	1:I:252:LEU:N	1.39	1.09
1:L:128:SER:HA	1:L:155:LEU:HD11	1.29	1.09
1:N:144:TYR:CE2	1:N:146:ALA:HB2	1.86	1.09
1:O:64:ASP:O	1:O:65:THR:CG2	1.98	1.09
1:O:66:ALA:O	1:O:67:TYR:C	1.80	1.09
1:F:144:TYR:CE2	1:F:146:ALA:HB2	1.87	1.09
1:G:124:ILE:HD13	1:G:152:MET:HG2	1.34	1.09
1:G:128:SER:HA	1:G:155:LEU:HD11	1.29	1.09
1:H:142:MET:CE	1:H:152:MET:HE1	1.74	1.09
1:J:128:SER:HA	1:J:155:LEU:HD11	1.29	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:126:SER:HA	1:L:223:LYS:HZ1	1.05	1.09
1:N:168:MET:CE	1:N:175:TYR:CZ	2.32	1.09
1:B:128:SER:CA	1:B:155:LEU:CD1	2.30	1.09
1:F:275:PRO:HB2	1:G:285:MET:CG	1.82	1.09
1:I:66:ALA:O	1:I:67:TYR:C	1.80	1.09
1:I:285:MET:CG	1:K:275:PRO:HB2	1.82	1.09
1:J:159:ILE:HG22	1:J:258:VAL:HG21	1.24	1.09
1:O:159:ILE:HG23	1:O:258:VAL:HG21	1.34	1.09
1:I:142:MET:CE	1:I:152:MET:HE1	1.82	1.09
1:P:69:ASN:ND2	2:Y:1:NAG:C1	2.14	1.09
1:P:275:PRO:HB2	1:Q:285:MET:CG	1.82	1.09
1:Q:125:ALA:HB1	1:Q:223:LYS:CD	1.82	1.09
1:Q:229:VAL:CG1	1:Q:235:HIS:CE1	2.27	1.09
1:F:285:MET:CG	1:H:275:PRO:HB2	1.82	1.09
1:I:72:GLN:O	1:I:76:PHE:HD1	1.10	1.09
1:I:275:PRO:HB2	1:J:285:MET:CG	1.82	1.09
1:L:290:LYS:CD	1:N:150:LEU:CD2	2.07	1.09
1:M:159:ILE:HG23	1:M:258:VAL:HG21	1.35	1.09
1:N:69:ASN:ND2	2:W:1:NAG:C1	2.14	1.09
1:N:124:ILE:HD13	1:N:152:MET:HG2	1.34	1.09
1:O:285:MET:CG	1:Q:275:PRO:HB2	1.82	1.09
1:Q:64:ASP:O	1:Q:65:THR:CG2	1.98	1.09
1:Q:144:TYR:CE2	1:Q:146:ALA:HB2	1.88	1.09
1:G:144:TYR:CE2	1:G:146:ALA:HB2	1.88	1.08
1:G:275:PRO:HB2	1:H:285:MET:CG	1.82	1.08
1:H:124:ILE:HD13	1:H:152:MET:HG2	1.34	1.08
1:I:125:ALA:HB1	1:I:223:LYS:CD	1.82	1.08
1:L:174:TYR:CE1	1:L:234:ASN:HB3	1.89	1.08
1:N:128:SER:CA	1:N:155:LEU:CD1	2.30	1.08
1:O:275:PRO:HB2	1:P:285:MET:CG	1.82	1.08
1:O:276:THR:HA	1:P:285:MET:HE3	1.17	1.08
1:F:174:TYR:CD1	1:F:198:LEU:HD12	1.84	1.08
1:G:117:TYR:CE2	1:O:167:PRO:O	2.06	1.08
1:H:174:TYR:CE1	1:H:234:ASN:HB3	1.89	1.08
1:I:124:ILE:HD13	1:I:152:MET:HG2	1.34	1.08
1:I:276:THR:HA	1:J:285:MET:HE3	1.14	1.08
1:K:159:ILE:HG21	1:K:258:VAL:HG21	1.09	1.08
1:L:64:ASP:O	1:L:65:THR:CG2	1.98	1.08
1:N:125:ALA:HB1	1:N:223:LYS:CD	1.82	1.08
1:O:125:ALA:HB1	1:O:223:LYS:CD	1.82	1.08
1:B:125:ALA:HB1	1:B:223:LYS:CD	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:159:ILE:HG23	1:B:258:VAL:HG21	1.34	1.08
1:F:159:ILE:HG23	1:F:258:VAL:HG21	1.34	1.08
1:I:174:TYR:CE1	1:I:234:ASN:HB3	1.89	1.08
1:J:125:ALA:HB1	1:J:223:LYS:CD	1.82	1.08
1:J:275:PRO:HB2	1:K:285:MET:CG	1.82	1.08
1:K:72:GLN:O	1:K:76:PHE:HD1	1.10	1.08
1:L:150:LEU:HD23	1:M:290:LYS:HD3	1.08	1.08
1:M:125:ALA:HB1	1:M:223:LYS:CD	1.82	1.08
1:M:275:PRO:HB2	1:N:285:MET:CG	1.82	1.08
1:P:128:SER:CA	1:P:155:LEU:CD1	2.31	1.08
1:P:174:TYR:CE1	1:P:234:ASN:HB3	1.89	1.08
1:B:251:LYS:HG3	1:B:252:LEU:N	1.39	1.08
1:G:69:ASN:ND2	2:D:1:NAG:C1	2.16	1.08
1:H:125:ALA:HB1	1:H:223:LYS:CD	1.82	1.08
1:J:128:SER:CA	1:J:155:LEU:CD1	2.30	1.08
1:K:125:ALA:HB1	1:K:223:LYS:CD	1.82	1.08
1:L:125:ALA:HB1	1:L:223:LYS:CD	1.82	1.08
1:L:276:THR:HA	1:M:285:MET:HE3	1.14	1.08
1:J:126:SER:HA	1:J:223:LYS:HZ1	1.09	1.08
1:L:159:ILE:HG21	1:L:258:VAL:HG21	1.09	1.08
1:O:128:SER:HA	1:O:155:LEU:HD11	1.29	1.08
1:F:125:ALA:HB1	1:F:223:LYS:CD	1.82	1.07
1:F:159:ILE:HG22	1:F:258:VAL:HG21	1.24	1.07
1:K:124:ILE:HD13	1:K:152:MET:HG2	1.34	1.07
1:L:285:MET:CG	1:N:275:PRO:HB2	1.82	1.07
1:O:128:SER:CA	1:O:155:LEU:CD1	2.30	1.07
1:F:128:SER:CA	1:F:155:LEU:CD1	2.30	1.07
1:O:144:TYR:CE2	1:O:146:ALA:HB2	1.90	1.07
1:O:150:LEU:CD2	1:P:290:LYS:CD	2.07	1.07
1:P:72:GLN:O	1:P:76:PHE:HD1	1.10	1.07
1:P:125:ALA:HB1	1:P:223:LYS:CD	1.82	1.07
1:B:174:TYR:CE1	1:B:234:ASN:HB3	1.89	1.07
1:H:72:GLN:O	1:H:76:PHE:HD1	1.10	1.07
1:J:124:ILE:HD13	1:J:152:MET:HG2	1.34	1.07
1:P:251:LYS:HG3	1:P:252:LEU:N	1.39	1.07
1:G:159:ILE:HG22	1:G:258:VAL:HG21	1.24	1.07
1:K:128:SER:HA	1:K:155:LEU:HD11	1.29	1.07
1:N:159:ILE:HG21	1:N:258:VAL:HG21	1.09	1.07
1:O:174:TYR:CE1	1:O:234:ASN:HB3	1.89	1.07
1:P:159:ILE:HG21	1:P:258:VAL:HG21	1.09	1.07
1:B:159:ILE:HG21	1:B:258:VAL:HG21	1.09	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:150:LEU:HD21	1:G:290:LYS:HG2	1.30	1.07
1:F:174:TYR:CE1	1:F:234:ASN:HB3	1.89	1.07
1:G:66:ALA:O	1:G:67:TYR:C	1.80	1.07
1:G:174:TYR:CE1	1:G:234:ASN:HB3	1.89	1.07
1:I:128:SER:CA	1:I:155:LEU:CD1	2.30	1.07
1:M:150:LEU:HD21	1:N:290:LYS:HG2	1.30	1.07
1:M:150:LEU:HD23	1:N:290:LYS:HD3	1.08	1.07
1:M:174:TYR:CE1	1:M:234:ASN:HB3	1.89	1.07
1:Q:128:SER:HA	1:Q:155:LEU:HD11	1.29	1.07
1:Q:174:TYR:CE1	1:Q:234:ASN:HB3	1.89	1.07
1:J:159:ILE:HG23	1:J:258:VAL:HG21	1.35	1.06
1:M:128:SER:CA	1:M:155:LEU:CD1	2.30	1.06
1:N:126:SER:HA	1:N:223:LYS:HZ1	1.19	1.06
1:O:150:LEU:HD21	1:P:290:LYS:HG2	1.30	1.06
1:B:128:SER:HA	1:B:155:LEU:HD11	1.29	1.06
1:F:285:MET:HE3	1:H:276:THR:HA	1.09	1.06
1:H:128:SER:HA	1:H:155:LEU:HD11	1.29	1.06
1:J:174:TYR:CE1	1:J:234:ASN:HB3	1.89	1.06
1:L:150:LEU:HD21	1:M:290:LYS:HG2	1.30	1.06
1:N:174:TYR:CE1	1:N:234:ASN:HB3	1.89	1.06
1:B:168:MET:HE2	1:B:175:TYR:CE2	1.91	1.06
1:I:276:THR:CA	1:J:285:MET:CE	1.94	1.06
1:K:174:TYR:CE1	1:K:234:ASN:HB3	1.89	1.06
1:F:251:LYS:HG3	1:F:252:LEU:N	1.39	1.06
1:F:276:THR:CA	1:G:285:MET:CE	1.94	1.06
1:F:290:LYS:HD3	1:H:150:LEU:HD23	1.08	1.06
1:I:150:LEU:HD23	1:J:290:LYS:HD3	1.08	1.06
1:K:159:ILE:HG23	1:K:258:VAL:HG21	1.35	1.06
1:O:126:SER:HA	1:O:223:LYS:HZ1	1.13	1.06
1:O:150:LEU:HD23	1:P:290:LYS:HD3	1.08	1.06
1:G:159:ILE:HG21	1:G:258:VAL:HG21	1.09	1.06
1:G:168:MET:HE1	1:G:175:TYR:CE1	1.86	1.06
1:I:159:ILE:HG23	1:I:258:VAL:HG21	1.34	1.06
1:H:128:SER:CA	1:H:155:LEU:CD1	2.30	1.05
1:O:229:VAL:CG1	1:O:235:HIS:CE1	2.27	1.05
1:H:144:TYR:CE2	1:H:146:ALA:HB2	1.92	1.05
1:L:128:SER:CA	1:L:155:LEU:CD1	2.30	1.05
1:K:128:SER:CA	1:K:155:LEU:CD1	2.30	1.05
1:L:290:LYS:HD3	1:N:150:LEU:HD23	1.08	1.05
1:M:276:THR:HA	1:N:285:MET:HE3	1.14	1.05
1:G:128:SER:CA	1:G:155:LEU:CD1	2.30	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:124:ILE:HD13	1:M:152:MET:HG2	1.34	1.05
1:M:229:VAL:CG1	1:M:235:HIS:CE1	2.27	1.05
1:P:124:ILE:HD13	1:P:152:MET:HG2	1.34	1.05
1:Q:159:ILE:HG21	1:Q:258:VAL:HG21	1.09	1.05
1:B:124:ILE:HD13	1:B:152:MET:HG2	1.34	1.05
1:B:229:VAL:CG1	1:B:235:HIS:CE1	2.27	1.05
1:N:159:ILE:HG23	1:N:258:VAL:HG21	1.34	1.05
1:P:276:THR:HA	1:Q:285:MET:HE3	1.13	1.05
1:Q:126:SER:HA	1:Q:223:LYS:NZ	1.72	1.05
1:Q:128:SER:HA	1:Q:155:LEU:HD13	1.35	1.05
1:F:159:ILE:HG21	1:F:258:VAL:HG21	1.09	1.04
1:H:126:SER:HA	1:H:223:LYS:NZ	1.72	1.04
1:O:205:ILE:HD11	1:P:104:GLN:CD	1.78	1.04
1:P:168:MET:HE2	1:P:175:TYR:CZ	1.92	1.04
1:I:205:ILE:HD11	1:J:104:GLN:CD	1.78	1.04
1:I:290:LYS:HD3	1:K:150:LEU:HD23	1.08	1.04
1:J:159:ILE:HG21	1:J:258:VAL:HG21	1.09	1.04
1:F:69:ASN:ND2	2:C:1:NAG:C1	2.19	1.04
1:H:159:ILE:HG21	1:H:258:VAL:HG21	1.09	1.04
1:J:144:TYR:CE2	1:J:146:ALA:HB2	1.93	1.04
1:J:229:VAL:CG1	1:J:235:HIS:CE1	2.27	1.04
1:M:205:ILE:HD11	1:N:104:GLN:CD	1.78	1.04
1:N:126:SER:HA	1:N:223:LYS:NZ	1.72	1.04
1:F:168:MET:HE2	1:F:175:TYR:CZ	1.91	1.04
1:H:69:ASN:ND2	2:E:1:NAG:C1	2.20	1.04
1:H:159:ILE:HG23	1:H:258:VAL:HG21	1.34	1.04
1:J:150:LEU:HD23	1:K:290:LYS:HD3	1.08	1.04
1:J:205:ILE:HD11	1:K:104:GLN:CD	1.78	1.04
1:L:205:ILE:HD11	1:M:104:GLN:CD	1.78	1.04
1:M:126:SER:HA	1:M:223:LYS:NZ	1.72	1.04
1:O:126:SER:HA	1:O:223:LYS:NZ	1.72	1.04
1:O:290:LYS:HD3	1:Q:150:LEU:HD23	1.08	1.04
1:Q:124:ILE:HD13	1:Q:152:MET:HG2	1.34	1.04
1:M:159:ILE:HG21	1:M:258:VAL:HG21	1.09	1.04
1:N:66:ALA:O	1:N:67:TYR:C	1.80	1.04
1:P:205:ILE:HD11	1:Q:104:GLN:CD	1.78	1.04
1:B:126:SER:HA	1:B:223:LYS:NZ	1.72	1.03
1:G:72:GLN:O	1:G:76:PHE:HD1	1.10	1.03
1:N:82:CYS:SG	1:N:135:CYS:CB	2.46	1.03
1:B:82:CYS:SG	1:B:135:CYS:CB	2.46	1.03
1:F:128:SER:HA	1:F:155:LEU:HD13	1.35	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:205:ILE:HD11	1:G:104:GLN:CD	1.78	1.03
1:G:205:ILE:HD11	1:H:104:GLN:CD	1.78	1.03
1:J:142:MET:CE	1:J:152:MET:HE1	1.87	1.03
1:J:168:MET:HE1	1:J:175:TYR:CZ	1.90	1.03
1:L:104:GLN:CD	1:N:205:ILE:HD11	1.78	1.03
1:L:159:ILE:HG23	1:L:258:VAL:HG21	1.34	1.03
1:O:104:GLN:CD	1:Q:205:ILE:HD11	1.78	1.03
1:P:159:ILE:HG23	1:P:258:VAL:HG21	1.34	1.03
1:F:82:CYS:SG	1:F:135:CYS:CB	2.46	1.03
1:F:124:ILE:HD13	1:F:152:MET:HG2	1.34	1.03
1:F:126:SER:HA	1:F:223:LYS:NZ	1.72	1.03
1:I:82:CYS:SG	1:I:135:CYS:CB	2.46	1.03
1:K:126:SER:HA	1:K:223:LYS:NZ	1.72	1.03
1:L:69:ASN:ND2	2:U:1:NAG:C1	2.20	1.03
1:L:128:SER:HA	1:L:155:LEU:HD13	1.35	1.03
1:M:168:MET:HE1	1:M:175:TYR:CZ	1.89	1.03
1:O:159:ILE:HG21	1:O:258:VAL:HG21	1.09	1.03
1:P:150:LEU:HD23	1:Q:290:LYS:HD3	1.08	1.03
1:Q:82:CYS:SG	1:Q:135:CYS:CB	2.46	1.03
1:B:126:SER:HA	1:B:223:LYS:HZ1	1.16	1.03
1:I:159:ILE:HG21	1:I:258:VAL:HG21	1.09	1.03
1:I:168:MET:HE2	1:I:175:TYR:CE2	1.91	1.03
1:L:285:MET:HE3	1:N:276:THR:HA	1.06	1.03
1:K:66:ALA:O	1:K:67:TYR:C	1.80	1.03
1:L:72:GLN:O	1:L:76:PHE:HD1	1.10	1.03
1:P:126:SER:HA	1:P:223:LYS:NZ	1.72	1.03
1:Q:159:ILE:HG23	1:Q:258:VAL:HG21	1.34	1.03
1:B:144:TYR:CE2	1:B:146:ALA:HB2	1.93	1.02
1:G:150:LEU:HD23	1:H:290:LYS:HD3	1.08	1.02
1:I:72:GLN:HB3	1:I:76:PHE:HE1	1.24	1.02
1:I:104:GLN:CD	1:K:205:ILE:HD11	1.78	1.02
1:J:257:ASN:O	1:J:310:MET:CG	2.08	1.02
1:M:128:SER:HA	1:M:155:LEU:HD13	1.35	1.02
1:B:191:CYS:CB	1:B:244:CYS:HG	1.70	1.02
1:F:257:ASN:O	1:F:310:MET:CG	2.08	1.02
1:G:82:CYS:SG	1:G:135:CYS:CB	2.46	1.02
1:I:126:SER:HA	1:I:223:LYS:NZ	1.72	1.02
1:J:82:CYS:SG	1:J:135:CYS:CB	2.46	1.02
1:J:126:SER:HA	1:J:223:LYS:NZ	1.72	1.02
1:L:82:CYS:SG	1:L:135:CYS:CB	2.46	1.02
1:Q:128:SER:CA	1:Q:155:LEU:CD1	2.31	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:104:GLN:CD	1:H:205:ILE:HD11	1.78	1.02
1:F:150:LEU:HD23	1:G:290:LYS:HD3	1.08	1.02
1:K:69:ASN:ND2	2:T:1:NAG:C1	2.21	1.02
1:L:144:TYR:CE2	1:L:146:ALA:HB2	1.93	1.02
1:M:158:LEU:HD11	1:M:224:LEU:HD11	1.42	1.02
1:N:142:MET:CE	1:N:152:MET:HE1	1.82	1.02
1:P:150:LEU:HD21	1:Q:290:LYS:HG2	1.30	1.02
1:K:257:ASN:O	1:K:310:MET:CG	2.08	1.02
1:M:82:CYS:SG	1:M:135:CYS:CB	2.46	1.02
1:M:257:ASN:O	1:M:310:MET:CG	2.08	1.02
1:N:257:ASN:O	1:N:310:MET:CG	2.08	1.02
1:O:72:GLN:HB3	1:O:76:PHE:HE1	1.24	1.02
1:Q:158:LEU:HD11	1:Q:224:LEU:HD11	1.42	1.02
1:F:142:MET:CE	1:F:152:MET:HE1	1.82	1.02
1:F:158:LEU:HD11	1:F:224:LEU:HD11	1.42	1.02
1:G:159:ILE:HG23	1:G:258:VAL:HG21	1.34	1.02
1:G:257:ASN:O	1:G:310:MET:CG	2.08	1.02
1:H:129:VAL:C	1:H:131:PRO:CD	2.29	1.02
1:K:300:VAL:O	1:K:303:VAL:HG23	1.60	1.02
1:L:257:ASN:O	1:L:310:MET:CG	2.08	1.02
1:O:82:CYS:SG	1:O:135:CYS:CB	2.46	1.02
1:P:82:CYS:SG	1:P:135:CYS:CB	2.46	1.02
1:G:158:LEU:HD11	1:G:224:LEU:HD11	1.42	1.01
1:H:82:CYS:SG	1:H:135:CYS:CB	2.46	1.01
1:I:300:VAL:O	1:I:303:VAL:HG23	1.60	1.01
1:J:300:VAL:O	1:J:303:VAL:HG23	1.60	1.01
1:L:126:SER:HA	1:L:223:LYS:NZ	1.72	1.01
1:Q:69:ASN:ND2	2:Z:1:NAG:C1	2.23	1.01
1:Q:257:ASN:O	1:Q:310:MET:CG	2.08	1.01
1:B:257:ASN:O	1:B:310:MET:CG	2.08	1.01
1:F:300:VAL:O	1:F:303:VAL:HG23	1.60	1.01
1:G:126:SER:HA	1:G:223:LYS:NZ	1.72	1.01
1:I:158:LEU:HD11	1:I:224:LEU:HD11	1.42	1.01
1:K:82:CYS:SG	1:K:135:CYS:CB	2.46	1.01
1:O:129:VAL:C	1:O:131:PRO:CD	2.29	1.01
1:O:158:LEU:HD11	1:O:224:LEU:HD11	1.42	1.01
1:B:129:VAL:C	1:B:131:PRO:CD	2.29	1.01
1:H:257:ASN:O	1:H:310:MET:CG	2.08	1.01
1:H:300:VAL:O	1:H:303:VAL:HG23	1.60	1.01
1:I:69:ASN:ND2	2:R:1:NAG:C1	2.22	1.01
1:M:66:ALA:O	1:M:67:TYR:C	1.80	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:300:VAL:O	1:O:303:VAL:HG23	1.60	1.01
1:P:300:VAL:O	1:P:303:VAL:HG23	1.60	1.01
1:F:168:MET:HE2	1:F:175:TYR:CE2	1.95	1.01
1:H:158:LEU:HD11	1:H:224:LEU:HD11	1.42	1.01
1:H:168:MET:HE1	1:H:175:TYR:CZ	1.91	1.01
1:I:129:VAL:C	1:I:131:PRO:CD	2.29	1.01
1:Q:126:SER:HA	1:Q:223:LYS:HZ1	1.26	1.01
1:F:126:SER:HA	1:F:223:LYS:HZ1	1.21	1.01
1:I:128:SER:HA	1:I:155:LEU:HD13	1.35	1.01
1:J:72:GLN:O	1:J:76:PHE:HD1	1.10	1.01
1:P:168:MET:HE2	1:P:175:TYR:CE2	1.95	1.01
1:Q:72:GLN:HB3	1:Q:76:PHE:HE1	1.24	1.01
1:F:72:GLN:HB3	1:F:76:PHE:HE1	1.24	1.00
1:F:129:VAL:C	1:F:131:PRO:CD	2.29	1.00
1:G:300:VAL:O	1:G:303:VAL:HG23	1.60	1.00
1:I:257:ASN:O	1:I:310:MET:CG	2.08	1.00
1:J:129:VAL:C	1:J:131:PRO:CD	2.29	1.00
1:M:72:GLN:O	1:M:76:PHE:HD1	1.10	1.00
1:M:142:MET:CE	1:M:152:MET:HE1	1.91	1.00
1:P:158:LEU:HD11	1:P:224:LEU:HD11	1.42	1.00
1:P:257:ASN:O	1:P:310:MET:CG	2.08	1.00
1:B:72:GLN:HB3	1:B:76:PHE:HE1	1.24	1.00
1:M:144:TYR:CE2	1:M:146:ALA:HB2	1.95	1.00
1:N:129:VAL:C	1:N:131:PRO:CD	2.29	1.00
1:P:66:ALA:O	1:P:67:TYR:C	1.80	1.00
1:Q:300:VAL:O	1:Q:303:VAL:HG23	1.60	1.00
1:B:300:VAL:O	1:B:303:VAL:HG23	1.60	1.00
1:L:129:VAL:C	1:L:131:PRO:CD	2.29	1.00
1:O:128:SER:HA	1:O:155:LEU:HD13	1.34	1.00
1:O:257:ASN:O	1:O:310:MET:CG	2.08	1.00
1:Q:129:VAL:C	1:Q:131:PRO:CD	2.29	1.00
1:M:129:VAL:C	1:M:131:PRO:CD	2.29	1.00
1:M:300:VAL:O	1:M:303:VAL:HG23	1.60	1.00
1:G:142:MET:CE	1:G:152:MET:HE1	1.92	1.00
1:J:72:GLN:HB3	1:J:76:PHE:HE1	1.24	1.00
1:L:300:VAL:O	1:L:303:VAL:HG23	1.60	1.00
1:M:72:GLN:HB3	1:M:76:PHE:HE1	1.24	1.00
1:N:300:VAL:O	1:N:303:VAL:HG23	1.60	1.00
1:L:72:GLN:HB3	1:L:76:PHE:HE1	1.24	1.00
1:P:129:VAL:C	1:P:131:PRO:CD	2.29	0.99
1:K:129:VAL:C	1:K:131:PRO:CD	2.29	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:66:ALA:O	1:H:67:TYR:C	1.80	0.99
1:H:257:ASN:O	1:H:310:MET:HG2	1.62	0.99
1:O:285:MET:HE3	1:Q:276:THR:HA	1.02	0.99
1:I:257:ASN:O	1:I:310:MET:HG2	1.63	0.99
1:K:72:GLN:HB3	1:K:76:PHE:HE1	1.24	0.99
1:L:66:ALA:O	1:L:67:TYR:C	1.80	0.99
1:N:128:SER:HA	1:N:155:LEU:HD13	1.34	0.99
1:Q:257:ASN:O	1:Q:310:MET:HG2	1.62	0.99
1:F:257:ASN:O	1:F:310:MET:HG2	1.63	0.99
1:G:129:VAL:C	1:G:131:PRO:CD	2.29	0.99
1:B:257:ASN:O	1:B:310:MET:HG2	1.62	0.99
1:P:257:ASN:O	1:P:310:MET:HG2	1.62	0.99
1:I:72:GLN:HB3	1:I:76:PHE:CE1	1.98	0.99
1:P:72:GLN:HB3	1:P:76:PHE:HE1	1.24	0.99
1:Q:72:GLN:HB3	1:Q:76:PHE:CE1	1.98	0.99
1:F:130:ASP:N	1:F:131:PRO:HD3	1.78	0.99
1:N:158:LEU:HD11	1:N:224:LEU:HD11	1.42	0.99
1:B:130:ASP:N	1:B:131:PRO:HD3	1.78	0.99
1:B:158:LEU:HD11	1:B:224:LEU:HD11	1.42	0.99
1:K:144:TYR:CE2	1:K:146:ALA:HB2	1.98	0.99
1:K:257:ASN:O	1:K:310:MET:HG2	1.63	0.99
1:L:104:GLN:OE1	1:N:205:ILE:HD11	1.63	0.99
1:N:257:ASN:O	1:N:310:MET:HG2	1.63	0.99
1:G:130:ASP:N	1:G:131:PRO:HD3	1.78	0.99
1:K:158:LEU:HD11	1:K:224:LEU:HD11	1.42	0.99
1:P:130:ASP:N	1:P:131:PRO:HD3	1.78	0.99
1:F:72:GLN:O	1:F:76:PHE:HD1	1.10	0.98
1:G:72:GLN:HB3	1:G:76:PHE:CE1	1.98	0.98
1:O:69:ASN:ND2	2:X:1:NAG:C1	2.25	0.98
1:O:72:GLN:HB3	1:O:76:PHE:CE1	1.98	0.98
1:O:104:GLN:OE1	1:Q:205:ILE:HD11	1.63	0.98
1:O:257:ASN:O	1:O:310:MET:HG2	1.63	0.98
1:G:72:GLN:HB3	1:G:76:PHE:HE1	1.24	0.98
1:N:72:GLN:HB3	1:N:76:PHE:HE1	1.24	0.98
1:P:72:GLN:HB3	1:P:76:PHE:CE1	1.98	0.98
1:P:205:ILE:HD11	1:Q:104:GLN:OE1	1.63	0.98
1:F:72:GLN:HB3	1:F:76:PHE:CE1	1.98	0.98
1:G:126:SER:HA	1:G:223:LYS:HZ1	1.21	0.98
1:M:130:ASP:N	1:M:131:PRO:HD3	1.78	0.98
1:N:72:GLN:HB3	1:N:76:PHE:CE1	1.98	0.98
1:P:128:SER:HA	1:P:155:LEU:HD13	1.34	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:257:ASN:O	1:G:310:MET:HG2	1.62	0.98
1:J:158:LEU:HD11	1:J:224:LEU:HD11	1.42	0.98
1:H:168:MET:HE2	1:H:175:TYR:CE2	1.99	0.98
1:J:72:GLN:HB3	1:J:76:PHE:CE1	1.98	0.98
1:H:130:ASP:N	1:H:131:PRO:HD3	1.78	0.98
1:J:257:ASN:O	1:J:310:MET:HG2	1.62	0.98
1:L:257:ASN:O	1:L:310:MET:HG2	1.62	0.98
1:H:72:GLN:HB3	1:H:76:PHE:CE1	1.98	0.98
1:H:72:GLN:HB3	1:H:76:PHE:HE1	1.24	0.98
1:M:257:ASN:O	1:M:310:MET:HG2	1.62	0.98
1:J:66:ALA:O	1:J:67:TYR:C	1.80	0.98
1:O:205:ILE:HD11	1:P:104:GLN:OE1	1.63	0.98
1:J:168:MET:HE2	1:J:175:TYR:CE2	1.99	0.97
1:M:72:GLN:HB3	1:M:76:PHE:CE1	1.98	0.97
1:H:130:ASP:N	1:H:131:PRO:HD2	1.73	0.97
1:K:130:ASP:N	1:K:131:PRO:HD3	1.78	0.97
1:B:72:GLN:HB3	1:B:76:PHE:CE1	1.98	0.97
1:L:158:LEU:HD11	1:L:224:LEU:HD11	1.42	0.97
1:L:142:MET:CE	1:L:152:MET:HE1	1.91	0.97
1:J:205:ILE:HD11	1:K:104:GLN:CB	1.95	0.97
1:L:205:ILE:HD11	1:M:104:GLN:OE1	1.63	0.97
1:L:205:ILE:HD11	1:M:104:GLN:CB	1.95	0.97
1:O:205:ILE:HD11	1:P:104:GLN:CB	1.95	0.97
1:F:104:GLN:CB	1:H:205:ILE:HD11	1.95	0.97
1:G:205:ILE:HD11	1:H:104:GLN:CB	1.95	0.97
1:I:104:GLN:CB	1:K:205:ILE:HD11	1.95	0.97
1:L:72:GLN:HB3	1:L:76:PHE:CE1	1.98	0.97
1:L:268:VAL:HG11	1:M:267:ASP:O	1.65	0.97
1:Q:130:ASP:N	1:Q:131:PRO:HD3	1.78	0.97
1:I:205:ILE:HD11	1:J:104:GLN:CB	1.95	0.97
1:I:268:VAL:HG11	1:J:267:ASP:O	1.65	0.97
1:L:130:ASP:N	1:L:131:PRO:HD3	1.78	0.97
1:F:104:GLN:OE1	1:H:205:ILE:HD11	1.63	0.96
1:F:144:TYR:HE2	1:F:146:ALA:HB2	1.30	0.96
1:K:72:GLN:HB3	1:K:76:PHE:CE1	1.98	0.96
1:M:168:MET:HE2	1:M:175:TYR:CE2	2.00	0.96
1:J:268:VAL:HG11	1:K:267:ASP:O	1.65	0.96
1:L:267:ASP:O	1:N:268:VAL:HG11	1.65	0.96
1:M:205:ILE:HD11	1:N:104:GLN:OE1	1.63	0.96
1:G:251:LYS:CG	1:G:252:LEU:N	2.29	0.96
1:I:205:ILE:HD11	1:J:104:GLN:OE1	1.63	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:268:VAL:HG11	1:Q:267:ASP:O	1.65	0.96
1:M:205:ILE:HD11	1:N:104:GLN:CB	1.95	0.96
1:G:268:VAL:HG11	1:H:267:ASP:O	1.65	0.96
1:F:205:ILE:HD11	1:G:104:GLN:CB	1.95	0.96
1:M:268:VAL:HG11	1:N:267:ASP:O	1.65	0.96
1:M:251:LYS:CG	1:M:252:LEU:N	2.29	0.96
1:O:268:VAL:HG11	1:P:267:ASP:O	1.65	0.96
1:H:251:LYS:CG	1:H:252:LEU:N	2.29	0.96
1:I:130:ASP:N	1:I:131:PRO:HD3	1.78	0.96
1:J:168:MET:HE2	1:J:175:TYR:CZ	2.00	0.96
1:L:104:GLN:CB	1:N:205:ILE:HD11	1.95	0.96
1:L:142:MET:HE2	1:L:152:MET:CE	1.94	0.96
1:O:64:ASP:C	1:O:65:THR:HG22	1.86	0.96
1:O:104:GLN:CB	1:Q:205:ILE:HD11	1.95	0.96
1:Q:142:MET:HE2	1:Q:152:MET:CE	1.92	0.96
1:L:251:LYS:CG	1:L:252:LEU:N	2.28	0.96
1:G:142:MET:HE2	1:G:152:MET:CE	1.93	0.95
1:J:64:ASP:C	1:J:65:THR:HG22	1.87	0.95
1:P:64:ASP:C	1:P:65:THR:HG22	1.87	0.95
1:P:205:ILE:HD11	1:Q:104:GLN:CB	1.95	0.95
1:K:251:LYS:CG	1:K:252:LEU:N	2.29	0.95
1:O:130:ASP:N	1:O:131:PRO:HD2	1.73	0.95
1:O:142:MET:HE2	1:O:152:MET:CE	1.93	0.95
1:H:168:MET:HE2	1:H:175:TYR:CZ	1.98	0.95
1:J:130:ASP:N	1:J:131:PRO:HD3	1.78	0.95
1:N:130:ASP:N	1:N:131:PRO:HD3	1.78	0.95
1:B:125:ALA:HB1	1:B:223:LYS:HD3	0.95	0.95
1:H:73:GLU:O	1:H:73:GLU:HG2	1.61	0.95
1:N:64:ASP:C	1:N:65:THR:HG22	1.87	0.95
1:P:142:MET:CE	1:P:152:MET:HE1	1.91	0.95
1:F:125:ALA:HB1	1:F:223:LYS:HD3	0.96	0.95
1:F:267:ASP:O	1:H:268:VAL:HG11	1.65	0.95
1:H:125:ALA:HB1	1:H:223:LYS:HD3	0.95	0.95
1:G:130:ASP:N	1:G:131:PRO:HD2	1.74	0.95
1:N:72:GLN:O	1:N:76:PHE:HD1	1.10	0.95
1:Q:251:LYS:CG	1:Q:252:LEU:N	2.29	0.95
1:J:167:PRO:O	1:L:117:TYR:CE2	2.20	0.95
1:M:168:MET:HE2	1:M:175:TYR:CZ	2.01	0.95
1:F:268:VAL:HG11	1:G:267:ASP:O	1.65	0.95
1:K:64:ASP:C	1:K:65:THR:HG22	1.87	0.95
1:L:256:GLU:OE1	1:L:283:ARG:NH1	2.00	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:130:ASP:N	1:O:131:PRO:HD3	1.78	0.95
1:B:256:GLU:OE1	1:B:283:ARG:NH1	2.00	0.95
1:G:64:ASP:C	1:G:65:THR:HG22	1.87	0.95
1:M:64:ASP:C	1:M:65:THR:HG22	1.87	0.95
1:N:256:GLU:OE1	1:N:283:ARG:NH1	2.00	0.95
1:O:73:GLU:HG2	1:O:73:GLU:O	1.67	0.95
1:P:251:LYS:CG	1:P:252:LEU:N	2.29	0.95
1:P:256:GLU:OE1	1:P:283:ARG:NH1	2.00	0.95
1:F:162:GLU:HG3	1:F:252:LEU:HD11	1.49	0.94
1:H:128:SER:HA	1:H:155:LEU:HD13	1.34	0.94
1:J:256:GLU:OE1	1:J:283:ARG:NH1	2.00	0.94
1:O:267:ASP:O	1:Q:268:VAL:HG11	1.65	0.94
1:Q:64:ASP:C	1:Q:65:THR:HG22	1.87	0.94
1:Q:125:ALA:HB1	1:Q:223:LYS:HD3	0.95	0.94
1:F:251:LYS:CG	1:F:252:LEU:N	2.29	0.94
1:I:162:GLU:HG3	1:I:252:LEU:HD11	1.50	0.94
1:K:125:ALA:HB1	1:K:223:LYS:HD3	0.95	0.94
1:P:125:ALA:HB1	1:P:223:LYS:HD3	0.95	0.94
1:I:125:ALA:HB1	1:I:223:LYS:HD3	0.95	0.94
1:M:256:GLU:OE1	1:M:283:ARG:NH1	2.00	0.94
1:N:125:ALA:HB1	1:N:223:LYS:HD3	0.95	0.94
1:Q:174:TYR:HE1	1:Q:234:ASN:CB	1.81	0.94
1:L:64:ASP:C	1:L:65:THR:HG22	1.86	0.94
1:B:174:TYR:HE1	1:B:234:ASN:CB	1.81	0.94
1:I:64:ASP:C	1:I:65:THR:HG22	1.87	0.94
1:I:72:GLN:CB	1:I:76:PHE:HE1	1.81	0.94
1:I:267:ASP:O	1:K:268:VAL:HG11	1.65	0.94
1:O:174:TYR:HE1	1:O:234:ASN:CB	1.81	0.94
1:P:168:MET:HE1	1:P:175:TYR:CZ	1.97	0.94
1:M:142:MET:HE2	1:M:152:MET:CE	1.97	0.94
1:N:174:TYR:HE1	1:N:234:ASN:CB	1.81	0.94
1:P:174:TYR:HE1	1:P:234:ASN:CB	1.81	0.94
1:I:162:GLU:CB	1:I:253:GLY:O	2.16	0.94
1:I:256:GLU:OE1	1:I:283:ARG:NH1	2.00	0.94
1:K:162:GLU:HG3	1:K:252:LEU:HD11	1.50	0.94
1:K:174:TYR:HE1	1:K:234:ASN:CB	1.81	0.94
1:M:125:ALA:HB1	1:M:223:LYS:HD3	0.95	0.94
1:M:130:ASP:N	1:M:131:PRO:HD2	1.73	0.94
1:F:205:ILE:HD11	1:G:104:GLN:OE1	1.63	0.94
1:G:162:GLU:HG3	1:G:252:LEU:HD11	1.50	0.94
1:J:72:GLN:O	1:J:76:PHE:CE1	2.21	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:162:GLU:CB	1:J:253:GLY:O	2.16	0.94
1:K:256:GLU:OE1	1:K:283:ARG:NH1	2.00	0.94
1:F:256:GLU:OE1	1:F:283:ARG:NH1	2.00	0.94
1:H:64:ASP:C	1:H:65:THR:HG22	1.87	0.94
1:L:125:ALA:HB1	1:L:223:LYS:HD3	0.96	0.94
1:M:72:GLN:CB	1:M:76:PHE:HE1	1.81	0.94
1:N:162:GLU:HG3	1:N:252:LEU:HD11	1.49	0.94
1:O:162:GLU:HG3	1:O:252:LEU:HD11	1.49	0.94
1:B:130:ASP:N	1:B:131:PRO:HD2	1.73	0.93
1:F:64:ASP:C	1:F:65:THR:HG22	1.87	0.93
1:J:174:TYR:HE1	1:J:234:ASN:CB	1.81	0.93
1:B:175:TYR:OH	1:B:237:LEU:HD23	1.69	0.93
1:F:72:GLN:CB	1:F:76:PHE:HE1	1.81	0.93
1:G:162:GLU:CB	1:G:253:GLY:O	2.16	0.93
1:Q:142:MET:CE	1:Q:152:MET:HE1	1.98	0.93
1:Q:144:TYR:HE2	1:Q:146:ALA:HB2	1.28	0.93
1:B:72:GLN:CB	1:B:76:PHE:HE1	1.81	0.93
1:F:174:TYR:HE1	1:F:234:ASN:CB	1.81	0.93
1:G:175:TYR:OH	1:G:237:LEU:HD23	1.68	0.93
1:I:174:TYR:HE1	1:I:234:ASN:CB	1.81	0.93
1:L:127:PHE:HD2	1:L:155:LEU:HD21	1.12	0.93
1:M:174:TYR:HE1	1:M:234:ASN:CB	1.81	0.93
1:O:72:GLN:O	1:O:76:PHE:CE1	2.21	0.93
1:G:125:ALA:HB1	1:G:223:LYS:HD3	0.95	0.93
1:H:175:TYR:OH	1:H:237:LEU:HD23	1.69	0.93
1:I:252:LEU:HG	1:I:253:GLY:N	1.84	0.93
1:L:162:GLU:CB	1:L:253:GLY:O	2.16	0.93
1:P:72:GLN:O	1:P:76:PHE:CE1	2.21	0.93
1:Q:72:GLN:CB	1:Q:76:PHE:HE1	1.81	0.93
1:F:72:GLN:O	1:F:76:PHE:CE1	2.21	0.93
1:G:168:MET:HE2	1:G:175:TYR:CE2	2.03	0.93
1:I:72:GLN:O	1:I:76:PHE:CE1	2.21	0.93
1:K:162:GLU:CB	1:K:253:GLY:O	2.16	0.93
1:L:72:GLN:CB	1:L:76:PHE:HE1	1.81	0.93
1:L:162:GLU:HG3	1:L:252:LEU:HD11	1.50	0.93
1:M:72:GLN:O	1:M:76:PHE:CE1	2.21	0.93
1:N:162:GLU:CB	1:N:253:GLY:O	2.16	0.93
1:Q:256:GLU:OE1	1:Q:283:ARG:NH1	2.00	0.93
1:G:256:GLU:OE1	1:G:283:ARG:NH1	2.00	0.93
1:H:174:TYR:CD1	1:H:234:ASN:HB3	2.04	0.93
1:M:126:SER:HA	1:M:223:LYS:HZ1	1.25	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:72:GLN:CB	1:O:76:PHE:HE1	1.81	0.93
1:O:125:ALA:HB1	1:O:223:LYS:HD3	0.95	0.93
1:G:127:PHE:HD2	1:G:155:LEU:HD21	1.12	0.93
1:H:162:GLU:CB	1:H:253:GLY:O	2.16	0.93
1:I:127:PHE:HD2	1:I:155:LEU:HD21	1.12	0.93
1:O:168:MET:HE2	1:O:175:TYR:CE2	2.04	0.93
1:P:162:GLU:CB	1:P:253:GLY:O	2.16	0.93
1:Q:158:LEU:HD12	1:Q:224:LEU:HD21	1.51	0.93
1:B:174:TYR:CD1	1:B:234:ASN:HB3	2.04	0.93
1:G:174:TYR:CD1	1:G:234:ASN:HB3	2.04	0.93
1:I:158:LEU:HD12	1:I:224:LEU:HD21	1.51	0.93
1:L:72:GLN:O	1:L:76:PHE:CE1	2.21	0.93
1:N:72:GLN:CB	1:N:76:PHE:HE1	1.81	0.93
1:N:251:LYS:CG	1:N:252:LEU:N	2.29	0.93
1:P:158:LEU:HD12	1:P:224:LEU:HD21	1.51	0.93
1:Q:162:GLU:CB	1:Q:253:GLY:O	2.16	0.93
1:Q:175:TYR:OH	1:Q:237:LEU:HD23	1.69	0.93
1:B:162:GLU:HG3	1:B:252:LEU:HD11	1.49	0.93
1:B:162:GLU:CB	1:B:253:GLY:O	2.16	0.93
1:F:127:PHE:HD2	1:F:155:LEU:HD21	1.12	0.93
1:F:175:TYR:OH	1:F:237:LEU:HD23	1.69	0.93
1:G:174:TYR:HE1	1:G:234:ASN:CB	1.81	0.93
1:H:72:GLN:CB	1:H:76:PHE:HE1	1.81	0.93
1:J:125:ALA:HB1	1:J:223:LYS:HD3	0.95	0.93
1:J:127:PHE:HD2	1:J:155:LEU:HD21	1.12	0.93
1:J:175:TYR:OH	1:J:237:LEU:HD23	1.69	0.93
1:J:251:LYS:CG	1:J:252:LEU:N	2.29	0.93
1:L:174:TYR:CD1	1:L:234:ASN:HB3	2.04	0.93
1:L:174:TYR:HE1	1:L:234:ASN:CB	1.81	0.93
1:O:256:GLU:OE1	1:O:283:ARG:NH1	2.00	0.93
1:O:290:LYS:CG	1:Q:150:LEU:CD2	2.44	0.93
1:P:72:GLN:CB	1:P:76:PHE:HE1	1.81	0.93
1:P:162:GLU:HG3	1:P:252:LEU:HD11	1.49	0.93
1:P:174:TYR:CD1	1:P:234:ASN:HB3	2.04	0.93
1:Q:162:GLU:HG3	1:Q:252:LEU:HD11	1.50	0.93
1:Q:174:TYR:CD1	1:Q:234:ASN:HB3	2.04	0.93
1:H:174:TYR:HE1	1:H:234:ASN:CB	1.81	0.93
1:H:256:GLU:OE1	1:H:283:ARG:NH1	2.00	0.93
1:I:128:SER:HB3	1:I:155:LEU:HD13	1.51	0.93
1:J:72:GLN:CB	1:J:76:PHE:HE1	1.81	0.93
1:N:72:GLN:O	1:N:76:PHE:CE1	2.21	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:127:PHE:HD2	1:N:155:LEU:HD21	1.12	0.93
1:O:162:GLU:CB	1:O:253:GLY:O	2.16	0.93
1:O:276:THR:CA	1:P:285:MET:CE	1.94	0.93
1:B:64:ASP:O	1:B:65:THR:CG2	2.17	0.92
1:B:72:GLN:O	1:B:76:PHE:CE1	2.21	0.92
1:B:162:GLU:HB3	1:B:253:GLY:O	1.70	0.92
1:I:144:TYR:HE2	1:I:146:ALA:HB2	1.28	0.92
1:M:128:SER:HB3	1:M:155:LEU:HD13	1.51	0.92
1:N:142:MET:HE2	1:N:152:MET:CE	1.96	0.92
1:O:127:PHE:HD2	1:O:155:LEU:HD21	1.11	0.92
1:Q:128:SER:HB3	1:Q:155:LEU:HD13	1.51	0.92
1:F:130:ASP:N	1:F:131:PRO:HD2	1.73	0.92
1:H:252:LEU:HG	1:H:253:GLY:N	1.84	0.92
1:I:162:GLU:HB3	1:I:253:GLY:O	1.69	0.92
1:I:175:TYR:OH	1:I:237:LEU:HD23	1.69	0.92
1:M:150:LEU:CD2	1:N:290:LYS:CG	2.44	0.92
1:N:252:LEU:HG	1:N:253:GLY:N	1.83	0.92
1:Q:162:GLU:HB3	1:Q:253:GLY:O	1.70	0.92
1:G:72:GLN:O	1:G:76:PHE:CE1	2.21	0.92
1:J:174:TYR:CD1	1:J:234:ASN:HB3	2.04	0.92
1:M:162:GLU:CB	1:M:253:GLY:O	2.16	0.92
1:O:158:LEU:HD12	1:O:224:LEU:HD21	1.51	0.92
1:P:175:TYR:OH	1:P:237:LEU:HD23	1.69	0.92
1:Q:72:GLN:O	1:Q:76:PHE:CE1	2.21	0.92
1:B:158:LEU:HD12	1:B:224:LEU:HD21	1.51	0.92
1:B:252:LEU:HG	1:B:253:GLY:N	1.83	0.92
1:F:128:SER:HB3	1:F:155:LEU:HD13	1.51	0.92
1:F:162:GLU:CB	1:F:253:GLY:O	2.16	0.92
1:K:72:GLN:O	1:K:76:PHE:CE1	2.21	0.92
1:M:174:TYR:CD1	1:M:234:ASN:HB3	2.04	0.92
1:O:162:GLU:HB3	1:O:253:GLY:O	1.69	0.92
1:B:73:GLU:HG2	1:B:73:GLU:O	1.68	0.92
1:G:128:SER:HA	1:G:155:LEU:HD13	1.35	0.92
1:G:158:LEU:HD12	1:G:224:LEU:HD21	1.51	0.92
1:L:252:LEU:CG	1:L:253:GLY:N	2.31	0.92
1:M:162:GLU:HB3	1:M:253:GLY:O	1.70	0.92
1:N:175:TYR:OH	1:N:237:LEU:HD23	1.69	0.92
1:J:252:LEU:HG	1:J:253:GLY:N	1.83	0.92
1:L:144:TYR:HE2	1:L:146:ALA:HB2	1.35	0.92
1:N:162:GLU:HB3	1:N:253:GLY:O	1.69	0.92
1:O:175:TYR:OH	1:O:237:LEU:HD23	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:162:GLU:HB3	1:P:253:GLY:O	1.69	0.92
1:G:205:ILE:HD11	1:H:104:GLN:OE1	1.63	0.92
1:H:162:GLU:HG3	1:H:252:LEU:HD11	1.49	0.92
1:K:174:TYR:CD1	1:K:234:ASN:HB3	2.04	0.92
1:I:251:LYS:CG	1:I:252:LEU:N	2.29	0.92
1:P:252:LEU:CG	1:P:253:GLY:N	2.31	0.92
1:J:162:GLU:HG3	1:J:252:LEU:HD11	1.49	0.92
1:P:130:ASP:N	1:P:131:PRO:HD2	1.73	0.92
1:P:144:TYR:HE2	1:P:146:ALA:HB2	1.28	0.92
1:B:87:THR:OG1	1:B:122:THR:HG22	1.71	0.91
1:H:162:GLU:HB3	1:H:253:GLY:O	1.69	0.91
1:J:158:LEU:HD12	1:J:224:LEU:HD21	1.51	0.91
1:L:130:ASP:N	1:L:131:PRO:HD2	1.74	0.91
1:N:144:TYR:HE2	1:N:146:ALA:HB2	1.26	0.91
1:B:251:LYS:HG3	1:B:252:LEU:H	1.09	0.91
1:B:251:LYS:CG	1:B:252:LEU:N	2.29	0.91
1:H:128:SER:HB3	1:H:155:LEU:HD13	1.51	0.91
1:H:158:LEU:HD12	1:H:224:LEU:HD21	1.51	0.91
1:K:158:LEU:HD12	1:K:224:LEU:HD21	1.51	0.91
1:K:175:TYR:OH	1:K:237:LEU:HD23	1.69	0.91
1:L:158:LEU:HD12	1:L:224:LEU:HD21	1.51	0.91
1:M:87:THR:OG1	1:M:122:THR:HG22	1.71	0.91
1:N:128:SER:HB3	1:N:155:LEU:HD13	1.51	0.91
1:P:252:LEU:HG	1:P:253:GLY:N	1.83	0.91
1:F:162:GLU:HB3	1:F:253:GLY:O	1.70	0.91
1:K:87:THR:OG1	1:K:122:THR:HG22	1.71	0.91
1:K:128:SER:HA	1:K:155:LEU:HD13	1.35	0.91
1:L:162:GLU:HB3	1:L:253:GLY:O	1.70	0.91
1:M:175:TYR:OH	1:M:237:LEU:HD23	1.69	0.91
1:M:252:LEU:HG	1:M:253:GLY:N	1.84	0.91
1:N:174:TYR:CD1	1:N:234:ASN:HB3	2.04	0.91
1:N:252:LEU:CG	1:N:253:GLY:N	2.31	0.91
1:O:252:LEU:HG	1:O:253:GLY:N	1.83	0.91
1:P:127:PHE:HD2	1:P:155:LEU:HD21	1.12	0.91
1:G:72:GLN:CB	1:G:76:PHE:HE1	1.81	0.91
1:H:72:GLN:O	1:H:76:PHE:CE1	2.21	0.91
1:J:162:GLU:HB3	1:J:253:GLY:O	1.69	0.91
1:L:175:TYR:OH	1:L:237:LEU:HD23	1.69	0.91
1:B:142:MET:HE2	1:B:152:MET:CE	1.99	0.91
1:F:127:PHE:CE2	1:F:155:LEU:HD21	2.06	0.91
1:F:168:MET:HE1	1:F:175:TYR:CZ	1.99	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:87:THR:OG1	1:G:122:THR:HG22	1.70	0.91
1:G:117:TYR:HE2	1:O:167:PRO:O	1.54	0.91
1:J:87:THR:OG1	1:J:122:THR:HG22	1.71	0.91
1:P:128:SER:HB3	1:P:155:LEU:HD13	1.51	0.91
1:H:87:THR:OG1	1:H:122:THR:HG22	1.71	0.91
1:I:87:THR:OG1	1:I:122:THR:HG22	1.71	0.91
1:I:104:GLN:OE1	1:K:205:ILE:HD11	1.63	0.91
1:F:174:TYR:CD1	1:F:234:ASN:HB3	2.04	0.91
1:G:162:GLU:HB3	1:G:253:GLY:O	1.69	0.91
1:L:87:THR:OG1	1:L:122:THR:HG22	1.71	0.91
1:Q:87:THR:OG1	1:Q:122:THR:HG22	1.71	0.91
1:G:127:PHE:CE2	1:G:155:LEU:HD21	2.06	0.91
1:K:162:GLU:HB3	1:K:253:GLY:O	1.69	0.91
1:M:162:GLU:HG3	1:M:252:LEU:HD11	1.50	0.91
1:N:158:LEU:HD12	1:N:224:LEU:HD21	1.51	0.91
1:O:87:THR:OG1	1:O:122:THR:HG22	1.71	0.91
1:O:128:SER:HB3	1:O:155:LEU:HD13	1.51	0.91
1:O:174:TYR:CD1	1:O:234:ASN:HB3	2.04	0.91
1:G:128:SER:HB3	1:G:155:LEU:HD13	1.51	0.91
1:K:128:SER:HB3	1:K:155:LEU:HD13	1.52	0.91
1:J:142:MET:HE2	1:J:152:MET:CE	2.00	0.91
1:K:72:GLN:CB	1:K:76:PHE:HE1	1.81	0.91
1:O:275:PRO:HB2	1:P:285:MET:HG2	0.91	0.91
1:B:127:PHE:CE2	1:B:155:LEU:HD21	2.06	0.90
1:F:87:THR:OG1	1:F:122:THR:HG22	1.71	0.90
1:I:127:PHE:CE2	1:I:155:LEU:HD21	2.06	0.90
1:I:174:TYR:CD1	1:I:234:ASN:HB3	2.04	0.90
1:J:130:ASP:N	1:J:131:PRO:HD2	1.73	0.90
1:O:150:LEU:CD2	1:P:290:LYS:CG	2.44	0.90
1:G:252:LEU:HG	1:G:253:GLY:N	1.84	0.90
1:J:127:PHE:CE2	1:J:155:LEU:HD21	2.06	0.90
1:K:252:LEU:HG	1:K:253:GLY:N	1.84	0.90
1:I:252:LEU:CG	1:I:253:GLY:N	2.32	0.90
1:K:127:PHE:CE2	1:K:155:LEU:HD21	2.06	0.90
1:Q:127:PHE:HD2	1:Q:155:LEU:HD21	1.12	0.90
1:F:252:LEU:HG	1:F:253:GLY:N	1.84	0.90
1:H:252:LEU:CG	1:H:253:GLY:N	2.31	0.90
1:J:205:ILE:HD11	1:K:104:GLN:OE1	1.63	0.90
1:L:252:LEU:HG	1:L:253:GLY:N	1.84	0.90
1:M:175:TYR:OH	1:M:237:LEU:CD2	2.20	0.90
1:N:127:PHE:CE2	1:N:155:LEU:HD21	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:127:PHE:CE2	1:O:155:LEU:HD21	2.06	0.90
1:Q:127:PHE:CE2	1:Q:155:LEU:HD21	2.06	0.90
1:H:127:PHE:CE2	1:H:155:LEU:HD21	2.06	0.90
1:O:285:MET:HG2	1:Q:275:PRO:HB2	0.91	0.90
1:F:251:LYS:HG3	1:F:252:LEU:H	1.09	0.90
1:J:275:PRO:HB2	1:K:285:MET:HG2	0.91	0.90
1:L:285:MET:HG2	1:N:275:PRO:HB2	0.91	0.90
1:N:175:TYR:OH	1:N:237:LEU:CD2	2.20	0.90
1:O:175:TYR:OH	1:O:237:LEU:CD2	2.20	0.90
1:G:144:TYR:HE2	1:G:146:ALA:HB2	1.30	0.90
1:G:175:TYR:OH	1:G:237:LEU:CD2	2.20	0.90
1:I:127:PHE:O	1:I:131:PRO:CG	2.20	0.90
1:J:205:ILE:HD12	1:K:104:GLN:OE1	1.72	0.90
1:L:168:MET:CE	1:L:175:TYR:CD1	2.55	0.90
1:M:168:MET:CE	1:M:175:TYR:CD1	2.55	0.90
1:N:87:THR:OG1	1:N:122:THR:HG22	1.71	0.90
1:N:167:PRO:CG	1:P:134:TYR:OH	2.17	0.90
1:F:127:PHE:O	1:F:131:PRO:CG	2.20	0.90
1:F:175:TYR:OH	1:F:237:LEU:CD2	2.20	0.90
1:G:251:LYS:HG3	1:G:252:LEU:H	1.09	0.90
1:H:175:TYR:OH	1:H:237:LEU:CD2	2.20	0.90
1:M:127:PHE:CE2	1:M:155:LEU:HD21	2.06	0.90
1:P:175:TYR:OH	1:P:237:LEU:CD2	2.20	0.90
1:B:127:PHE:O	1:B:131:PRO:CG	2.20	0.90
1:H:127:PHE:HD2	1:H:155:LEU:HD21	1.11	0.90
1:J:127:PHE:O	1:J:131:PRO:CG	2.20	0.90
1:L:104:GLN:OE1	1:N:205:ILE:HD12	1.72	0.90
1:L:127:PHE:O	1:L:131:PRO:CG	2.20	0.90
1:N:127:PHE:O	1:N:131:PRO:CG	2.20	0.90
1:P:87:THR:OG1	1:P:122:THR:HG22	1.70	0.90
1:F:158:LEU:HD12	1:F:224:LEU:HD21	1.51	0.89
1:F:285:MET:HG2	1:H:275:PRO:HB2	0.91	0.89
1:G:127:PHE:O	1:G:131:PRO:CG	2.20	0.89
1:H:127:PHE:O	1:H:131:PRO:CG	2.20	0.89
1:J:168:MET:CE	1:J:175:TYR:CD1	2.55	0.89
1:L:127:PHE:CE2	1:L:155:LEU:HD21	2.06	0.89
1:L:175:TYR:OH	1:L:237:LEU:CD2	2.20	0.89
1:M:158:LEU:HD12	1:M:224:LEU:HD21	1.51	0.89
1:I:275:PRO:HB2	1:J:285:MET:HG2	0.91	0.89
1:K:175:TYR:OH	1:K:237:LEU:CD2	2.20	0.89
1:L:275:PRO:HB2	1:M:285:MET:HG2	0.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:275:PRO:HB2	1:N:285:MET:HG2	0.91	0.89
1:P:127:PHE:CE2	1:P:155:LEU:HD21	2.06	0.89
1:Q:168:MET:CE	1:Q:175:TYR:CD1	2.55	0.89
1:F:168:MET:CE	1:F:175:TYR:CD1	2.55	0.89
1:I:168:MET:CE	1:I:175:TYR:CD1	2.55	0.89
1:J:175:TYR:OH	1:J:237:LEU:CD2	2.20	0.89
1:K:127:PHE:O	1:K:131:PRO:CG	2.20	0.89
1:Q:175:TYR:OH	1:Q:237:LEU:CD2	2.20	0.89
1:Q:252:LEU:HG	1:Q:253:GLY:N	1.83	0.89
1:H:142:MET:HE2	1:H:152:MET:HE1	1.54	0.89
1:J:251:LYS:HG3	1:J:252:LEU:H	1.09	0.89
1:L:128:SER:HB3	1:L:155:LEU:HD13	1.51	0.89
1:L:191:CYS:CB	1:L:244:CYS:HG	1.84	0.89
1:N:168:MET:CE	1:N:175:TYR:CD1	2.55	0.89
1:O:144:TYR:HE2	1:O:146:ALA:HB2	1.33	0.89
1:P:127:PHE:O	1:P:131:PRO:CG	2.20	0.89
1:B:175:TYR:OH	1:B:237:LEU:CD2	2.20	0.89
1:I:175:TYR:OH	1:I:237:LEU:CD2	2.20	0.89
1:P:205:ILE:HD12	1:Q:104:GLN:OE1	1.72	0.89
1:F:104:GLN:OE1	1:H:205:ILE:HD12	1.72	0.89
1:J:144:TYR:HE2	1:J:146:ALA:HB2	1.33	0.89
1:J:252:LEU:CG	1:J:253:GLY:N	2.31	0.89
1:B:168:MET:CE	1:B:175:TYR:CD1	2.55	0.89
1:I:104:GLN:OE1	1:K:205:ILE:HD12	1.72	0.89
1:K:142:MET:HE2	1:K:152:MET:HE2	1.54	0.89
1:M:251:LYS:HG3	1:M:252:LEU:H	1.09	0.89
1:O:127:PHE:O	1:O:131:PRO:CG	2.20	0.89
1:B:158:LEU:CD1	1:B:224:LEU:HD11	2.03	0.89
1:J:128:SER:HB3	1:J:155:LEU:HD13	1.51	0.89
1:O:158:LEU:CD1	1:O:224:LEU:HD11	2.03	0.89
1:O:252:LEU:CG	1:O:253:GLY:N	2.31	0.89
1:Q:127:PHE:O	1:Q:131:PRO:CG	2.20	0.89
1:G:158:LEU:CD1	1:G:224:LEU:HD11	2.03	0.89
1:G:159:ILE:HG21	1:G:258:VAL:CG2	1.91	0.89
1:G:275:PRO:HB2	1:H:285:MET:HG2	0.91	0.89
1:O:285:MET:HE1	1:Q:276:THR:HA	0.89	0.89
1:M:144:TYR:HE2	1:M:146:ALA:HB2	1.36	0.89
1:O:168:MET:CE	1:O:175:TYR:CD1	2.55	0.89
1:L:251:LYS:HG3	1:L:252:LEU:H	1.09	0.88
1:P:168:MET:CE	1:P:175:TYR:CD1	2.55	0.88
1:I:150:LEU:CD2	1:J:290:LYS:CG	2.44	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:285:MET:HG2	1:K:275:PRO:HB2	0.91	0.88
1:J:275:PRO:CB	1:K:285:MET:CG	2.48	0.88
1:K:168:MET:CE	1:K:175:TYR:CD1	2.55	0.88
1:M:205:ILE:HD12	1:N:104:GLN:OE1	1.72	0.88
1:F:158:LEU:CD1	1:F:224:LEU:HD11	2.03	0.88
1:G:183:LYS:HE2	1:G:228:ASP:OD2	1.74	0.88
1:K:251:LYS:HG3	1:K:252:LEU:H	1.09	0.88
1:N:158:LEU:CD1	1:N:224:LEU:HD11	2.03	0.88
1:Q:158:LEU:CD1	1:Q:224:LEU:HD11	2.03	0.88
1:F:142:MET:HE2	1:F:152:MET:CE	2.00	0.88
1:M:127:PHE:O	1:M:131:PRO:CG	2.20	0.88
1:P:275:PRO:HB2	1:Q:285:MET:HG2	0.91	0.88
1:Q:183:LYS:HE2	1:Q:228:ASP:OD2	1.74	0.88
1:B:128:SER:HB3	1:B:155:LEU:HD13	1.51	0.88
1:K:251:LYS:CG	1:K:252:LEU:H	1.87	0.88
1:P:183:LYS:HE2	1:P:228:ASP:OD2	1.74	0.88
1:B:69:ASN:HD22	2:A:1:NAG:C1	1.78	0.88
1:B:183:LYS:HE2	1:B:228:ASP:OD2	1.74	0.88
1:G:168:MET:CE	1:G:175:TYR:CD1	2.55	0.88
1:H:168:MET:CE	1:H:175:TYR:CD1	2.55	0.88
1:J:158:LEU:CD1	1:J:224:LEU:HD11	2.03	0.88
1:O:251:LYS:HG3	1:O:252:LEU:H	1.09	0.88
1:G:251:LYS:CG	1:G:252:LEU:H	1.87	0.88
1:H:144:TYR:N	1:H:263:VAL:O	2.07	0.88
1:O:205:ILE:HD12	1:P:104:GLN:OE1	1.72	0.88
1:B:159:ILE:HG21	1:B:258:VAL:CG2	1.91	0.88
1:B:191:CYS:CA	1:B:244:CYS:HG	1.82	0.88
1:I:130:ASP:N	1:I:131:PRO:HD2	1.73	0.88
1:P:174:TYR:CE1	1:P:234:ASN:CB	2.56	0.88
1:F:183:LYS:HE2	1:F:228:ASP:OD2	1.74	0.88
1:P:142:MET:HE2	1:P:152:MET:CE	2.02	0.88
1:I:142:MET:HE2	1:I:152:MET:CE	2.03	0.87
1:I:144:TYR:HE2	1:I:146:ALA:CB	1.86	0.87
1:I:205:ILE:HD12	1:J:104:GLN:OE1	1.72	0.87
1:I:251:LYS:HG3	1:I:252:LEU:H	1.09	0.87
1:K:168:MET:HE2	1:K:175:TYR:CE2	2.09	0.87
1:O:104:GLN:OE1	1:Q:205:ILE:HD12	1.72	0.87
1:Q:144:TYR:HE2	1:Q:146:ALA:CB	1.87	0.87
1:F:150:LEU:CD2	1:G:290:LYS:CG	2.44	0.87
1:F:205:ILE:HD12	1:G:104:GLN:OE1	1.72	0.87
1:K:158:LEU:CD1	1:K:224:LEU:HD11	2.03	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:290:LYS:CG	1:H:150:LEU:CD2	2.44	0.87
1:L:205:ILE:HD12	1:M:104:GLN:OE1	1.72	0.87
1:M:183:LYS:HE2	1:M:228:ASP:OD2	1.74	0.87
1:N:183:LYS:HE2	1:N:228:ASP:OD2	1.74	0.87
1:Q:251:LYS:HG3	1:Q:252:LEU:H	1.09	0.87
1:I:158:LEU:CD1	1:I:224:LEU:HD11	2.03	0.87
1:K:144:TYR:HE2	1:K:146:ALA:HB2	1.37	0.87
1:P:150:LEU:CD2	1:Q:290:LYS:CG	2.44	0.87
1:O:251:LYS:CG	1:O:252:LEU:H	1.87	0.87
1:P:275:PRO:CB	1:Q:285:MET:CG	2.48	0.87
1:Q:130:ASP:N	1:Q:131:PRO:HD2	1.73	0.87
1:Q:174:TYR:CE1	1:Q:234:ASN:CB	2.56	0.87
1:I:183:LYS:HE2	1:I:228:ASP:OD2	1.74	0.87
1:I:285:MET:CE	1:K:276:THR:CA	1.94	0.87
1:K:127:PHE:HD2	1:K:155:LEU:HD21	1.12	0.87
1:L:144:TYR:N	1:L:263:VAL:O	2.08	0.87
1:L:158:LEU:CD1	1:L:224:LEU:HD11	2.03	0.87
1:L:290:LYS:CG	1:N:150:LEU:CD2	2.44	0.87
1:O:183:LYS:HE2	1:O:228:ASP:OD2	1.74	0.87
1:P:158:LEU:CD1	1:P:224:LEU:HD11	2.03	0.87
1:F:144:TYR:N	1:F:263:VAL:O	2.08	0.87
1:F:275:PRO:HB2	1:G:285:MET:HG2	0.91	0.87
1:G:252:LEU:CG	1:G:253:GLY:N	2.32	0.87
1:G:275:PRO:CB	1:H:285:MET:CG	2.48	0.87
1:N:251:LYS:HG3	1:N:252:LEU:H	1.09	0.87
1:B:174:TYR:CE1	1:B:234:ASN:CB	2.56	0.87
1:I:290:LYS:CG	1:K:150:LEU:CD2	2.44	0.87
1:K:174:TYR:CE1	1:K:234:ASN:CB	2.56	0.87
1:L:251:LYS:CG	1:L:252:LEU:H	1.87	0.87
1:N:174:TYR:CE1	1:N:234:ASN:CB	2.56	0.87
1:N:251:LYS:CG	1:N:252:LEU:H	1.87	0.87
1:P:251:LYS:HG3	1:P:252:LEU:H	1.09	0.87
1:L:183:LYS:HE2	1:L:228:ASP:OD2	1.74	0.87
1:Q:168:MET:HE3	1:Q:175:TYR:CE2	2.09	0.87
1:B:127:PHE:HD2	1:B:155:LEU:HD21	1.12	0.86
1:H:158:LEU:CD1	1:H:224:LEU:HD11	2.03	0.86
1:J:183:LYS:HE2	1:J:228:ASP:OD2	1.74	0.86
1:J:251:LYS:CG	1:J:252:LEU:H	1.87	0.86
1:K:144:TYR:HD2	1:K:144:TYR:C	1.78	0.86
1:K:183:LYS:HE2	1:K:228:ASP:OD2	1.74	0.86
1:M:127:PHE:HD2	1:M:155:LEU:HD21	1.12	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:144:TYR:HE2	1:N:146:ALA:CB	1.87	0.86
1:H:183:LYS:HE2	1:H:228:ASP:OD2	1.74	0.86
1:L:191:CYS:CB	1:L:244:CYS:SG	2.64	0.86
1:M:158:LEU:CD1	1:M:224:LEU:HD11	2.03	0.86
1:Q:191:CYS:CB	1:Q:244:CYS:SG	2.63	0.86
1:G:205:ILE:HD12	1:H:104:GLN:OE1	1.72	0.86
1:L:174:TYR:CE1	1:L:234:ASN:CB	2.56	0.86
1:H:142:MET:HE2	1:H:152:MET:CE	2.01	0.86
1:H:144:TYR:HE2	1:H:146:ALA:HB2	1.31	0.86
1:H:174:TYR:CE1	1:H:234:ASN:CB	2.56	0.86
1:J:159:ILE:HG21	1:J:258:VAL:CG2	1.91	0.86
1:B:252:LEU:CG	1:B:253:GLY:N	2.31	0.86
1:K:191:CYS:CB	1:K:244:CYS:SG	2.64	0.86
1:O:285:MET:CG	1:Q:275:PRO:CB	2.48	0.86
1:G:144:TYR:N	1:G:263:VAL:O	2.08	0.86
1:H:251:LYS:HG3	1:H:252:LEU:H	1.09	0.86
1:O:168:MET:HE2	1:O:175:TYR:CZ	2.06	0.86
1:Q:252:LEU:CG	1:Q:253:GLY:N	2.31	0.86
1:H:191:CYS:CB	1:H:244:CYS:SG	2.64	0.86
1:N:191:CYS:CB	1:N:244:CYS:SG	2.63	0.86
1:O:191:CYS:CB	1:O:244:CYS:SG	2.64	0.86
1:F:174:TYR:CE1	1:F:234:ASN:CB	2.56	0.86
1:M:191:CYS:CB	1:M:244:CYS:SG	2.64	0.86
1:N:82:CYS:N	1:N:135:CYS:SG	2.49	0.86
1:B:64:ASP:C	1:B:65:THR:HG22	1.96	0.85
1:F:191:CYS:CB	1:F:244:CYS:SG	2.64	0.85
1:I:174:TYR:CE1	1:I:234:ASN:CB	2.56	0.85
1:I:191:CYS:CB	1:I:244:CYS:SG	2.64	0.85
1:K:82:CYS:N	1:K:135:CYS:SG	2.49	0.85
1:M:82:CYS:N	1:M:135:CYS:SG	2.49	0.85
1:M:252:LEU:CG	1:M:253:GLY:N	2.31	0.85
1:Q:251:LYS:CG	1:Q:252:LEU:H	1.87	0.85
1:F:150:LEU:CD1	1:G:288:ASN:CG	2.45	0.85
1:J:82:CYS:N	1:J:135:CYS:SG	2.50	0.85
1:J:150:LEU:CD1	1:K:288:ASN:CG	2.45	0.85
1:N:142:MET:HE2	1:N:152:MET:HE1	1.56	0.85
1:O:105:LEU:O	1:O:108:THR:CG2	2.23	0.85
1:O:150:LEU:CD1	1:P:288:ASN:CG	2.45	0.85
1:P:150:LEU:CD1	1:Q:288:ASN:CG	2.45	0.85
1:P:191:CYS:CB	1:P:244:CYS:SG	2.64	0.85
1:I:150:LEU:CD1	1:J:288:ASN:CG	2.45	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:191:CYS:CB	1:J:244:CYS:SG	2.64	0.85
1:M:251:LYS:CG	1:M:252:LEU:H	1.87	0.85
1:L:82:CYS:N	1:L:135:CYS:SG	2.49	0.85
1:P:82:CYS:N	1:P:135:CYS:SG	2.49	0.85
1:F:105:LEU:O	1:F:108:THR:CG2	2.24	0.85
1:G:82:CYS:N	1:G:135:CYS:SG	2.49	0.85
1:G:150:LEU:CD2	1:H:290:LYS:CG	2.44	0.85
1:G:191:CYS:CB	1:G:244:CYS:SG	2.64	0.85
1:I:82:CYS:N	1:I:135:CYS:SG	2.49	0.85
1:K:252:LEU:CG	1:K:253:GLY:N	2.31	0.85
1:M:105:LEU:O	1:M:108:THR:CG2	2.24	0.85
1:F:144:TYR:HD2	1:F:145:ASP:N	1.74	0.85
1:K:130:ASP:N	1:K:131:PRO:HD2	1.74	0.85
1:L:168:MET:HE3	1:L:175:TYR:CE1	2.11	0.85
1:N:159:ILE:HG21	1:N:258:VAL:CG2	1.91	0.85
1:F:82:CYS:N	1:F:135:CYS:SG	2.50	0.85
1:F:142:MET:HE2	1:F:152:MET:HE1	1.57	0.85
1:G:150:LEU:CD1	1:H:288:ASN:CG	2.45	0.85
1:G:174:TYR:CE1	1:G:234:ASN:CB	2.56	0.85
1:H:82:CYS:N	1:H:135:CYS:SG	2.49	0.85
1:P:144:TYR:HE2	1:P:146:ALA:CB	1.88	0.85
1:B:82:CYS:N	1:B:135:CYS:SG	2.49	0.85
1:H:105:LEU:O	1:H:108:THR:CG2	2.24	0.85
1:I:73:GLU:O	1:I:73:GLU:HG2	1.74	0.85
1:B:142:MET:HE2	1:B:152:MET:HE1	1.54	0.85
1:F:252:LEU:CG	1:F:253:GLY:N	2.31	0.85
1:L:105:LEU:O	1:L:108:THR:CG2	2.24	0.85
1:O:144:TYR:HE2	1:O:146:ALA:CB	1.90	0.85
1:O:174:TYR:CE1	1:O:234:ASN:CB	2.56	0.85
1:J:174:TYR:CE1	1:J:234:ASN:CB	2.56	0.85
1:G:144:TYR:HE2	1:G:146:ALA:CB	1.89	0.84
1:M:174:TYR:CE1	1:M:234:ASN:CB	2.56	0.84
1:N:105:LEU:O	1:N:108:THR:CG2	2.23	0.84
1:O:288:ASN:CG	1:Q:150:LEU:CD1	2.45	0.84
1:Q:82:CYS:N	1:Q:135:CYS:SG	2.49	0.84
1:I:142:MET:HE2	1:I:152:MET:HE1	1.58	0.84
1:O:275:PRO:CB	1:P:285:MET:CG	2.48	0.84
1:P:168:MET:HE3	1:P:175:TYR:CD1	2.13	0.84
1:L:288:ASN:CG	1:N:150:LEU:CD1	2.45	0.84
1:M:159:ILE:HG21	1:M:258:VAL:CG2	1.91	0.84
1:O:82:CYS:N	1:O:135:CYS:SG	2.50	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:144:TYR:HE2	1:B:146:ALA:HB2	1.35	0.84
1:L:285:MET:HE1	1:N:276:THR:HA	0.85	0.84
1:M:150:LEU:CD1	1:N:288:ASN:CG	2.45	0.84
1:F:251:LYS:CG	1:F:252:LEU:H	1.87	0.84
1:I:251:LYS:O	1:I:252:LEU:HB3	1.78	0.84
1:L:275:PRO:CB	1:M:285:MET:CG	2.48	0.84
1:F:144:TYR:HE2	1:F:146:ALA:CB	1.90	0.84
1:L:150:LEU:CD1	1:M:288:ASN:CG	2.45	0.84
1:F:288:ASN:CG	1:H:150:LEU:CD1	2.45	0.84
1:I:285:MET:CG	1:K:275:PRO:CB	2.48	0.84
1:I:288:ASN:CG	1:K:150:LEU:CD1	2.45	0.84
1:N:168:MET:HE3	1:N:175:TYR:CE1	2.10	0.84
1:P:251:LYS:O	1:P:252:LEU:HB3	1.78	0.84
1:H:168:MET:HE3	1:H:175:TYR:CD1	2.13	0.84
1:L:150:LEU:CD2	1:M:290:LYS:CG	2.44	0.84
1:H:251:LYS:CG	1:H:252:LEU:H	1.87	0.84
1:B:251:LYS:O	1:B:252:LEU:HB3	1.78	0.84
1:B:191:CYS:CB	1:B:244:CYS:SG	2.64	0.83
1:F:251:LYS:O	1:F:252:LEU:HB3	1.78	0.83
1:H:129:VAL:HG13	1:H:187:MET:HG3	1.61	0.83
1:I:105:LEU:O	1:I:108:THR:CG2	2.23	0.83
1:P:144:TYR:N	1:P:263:VAL:O	2.11	0.83
1:K:129:VAL:HG13	1:K:187:MET:HG3	1.61	0.83
1:K:168:MET:HE2	1:K:175:TYR:CZ	2.13	0.83
1:P:251:LYS:CG	1:P:252:LEU:H	1.87	0.83
1:F:129:VAL:HG13	1:F:187:MET:HG3	1.61	0.83
1:N:129:VAL:HG13	1:N:187:MET:HG3	1.61	0.83
1:H:191:CYS:CB	1:H:244:CYS:HG	1.92	0.83
1:J:150:LEU:CD2	1:K:290:LYS:CG	2.44	0.83
1:P:144:TYR:CZ	1:P:146:ALA:HB2	2.14	0.83
1:F:285:MET:CG	1:H:275:PRO:CB	2.48	0.83
1:G:129:VAL:HG13	1:G:187:MET:HG3	1.61	0.83
1:H:144:TYR:HE2	1:H:146:ALA:CB	1.91	0.83
1:B:168:MET:HE3	1:B:175:TYR:CD1	2.13	0.83
1:B:251:LYS:CG	1:B:252:LEU:H	1.87	0.83
1:J:251:LYS:O	1:J:252:LEU:HB3	1.78	0.83
1:M:168:MET:HE3	1:M:175:TYR:CD1	2.13	0.83
1:P:159:ILE:HG21	1:P:258:VAL:CG2	1.91	0.83
1:H:66:ALA:O	1:H:67:TYR:O	1.97	0.83
1:I:144:TYR:CE2	1:I:146:ALA:CB	2.61	0.83
1:J:144:TYR:HD2	1:J:145:ASP:N	1.76	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:252:LEU:CG	1:M:253:GLY:H	1.83	0.83
1:N:191:CYS:CB	1:N:244:CYS:HG	1.92	0.83
1:O:168:MET:HE3	1:O:175:TYR:CD1	2.14	0.83
1:F:168:MET:HE3	1:F:175:TYR:CD1	2.13	0.83
1:I:168:MET:HE3	1:I:175:TYR:CD1	2.14	0.83
1:I:129:VAL:HG13	1:I:187:MET:HG3	1.61	0.82
1:J:168:MET:HE3	1:J:175:TYR:CD1	2.13	0.82
1:L:286:ARG:HH12	1:N:268:VAL:CG1	1.92	0.82
1:M:268:VAL:CG1	1:N:286:ARG:HH12	1.92	0.82
1:N:251:LYS:O	1:N:252:LEU:HB3	1.78	0.82
1:Q:105:LEU:O	1:Q:108:THR:CG2	2.24	0.82
1:Q:144:TYR:N	1:Q:263:VAL:O	2.12	0.82
1:I:144:TYR:CZ	1:I:146:ALA:HB2	2.12	0.82
1:I:205:ILE:HD11	1:J:104:GLN:HB2	1.61	0.82
1:I:251:LYS:CG	1:I:252:LEU:H	1.87	0.82
1:O:129:VAL:HG13	1:O:187:MET:HG3	1.61	0.82
1:O:205:ILE:HD11	1:P:104:GLN:HB2	1.61	0.82
1:Q:168:MET:HE3	1:Q:175:TYR:CZ	2.13	0.82
1:G:268:VAL:CG1	1:H:286:ARG:HH12	1.92	0.82
1:L:144:TYR:HD2	1:L:145:ASP:N	1.77	0.82
1:M:73:GLU:HG2	1:M:73:GLU:O	1.79	0.82
1:M:129:VAL:HG13	1:M:187:MET:HG3	1.61	0.82
1:B:129:VAL:HG13	1:B:187:MET:HG3	1.61	0.82
1:J:268:VAL:CG1	1:K:286:ARG:HH12	1.92	0.82
1:K:105:LEU:O	1:K:108:THR:CG2	2.23	0.82
1:N:66:ALA:O	1:N:67:TYR:O	1.97	0.82
1:P:66:ALA:O	1:P:67:TYR:O	1.97	0.82
1:K:142:MET:HE2	1:K:152:MET:CE	2.04	0.82
1:L:251:LYS:O	1:L:252:LEU:HB3	1.78	0.82
1:G:66:ALA:O	1:G:67:TYR:O	1.97	0.82
1:H:144:TYR:HD2	1:H:145:ASP:N	1.77	0.82
1:M:144:TYR:N	1:M:263:VAL:O	2.12	0.82
1:F:286:ARG:HH12	1:H:268:VAL:CG1	1.92	0.82
1:J:66:ALA:O	1:J:67:TYR:O	1.97	0.82
1:J:205:ILE:HD11	1:K:104:GLN:HB2	1.62	0.82
1:O:144:TYR:N	1:O:263:VAL:O	2.12	0.82
1:O:286:ARG:HH12	1:Q:268:VAL:CG1	1.92	0.82
1:P:144:TYR:CE2	1:P:146:ALA:CB	2.63	0.82
1:J:129:VAL:HG13	1:J:187:MET:HG3	1.61	0.82
1:H:174:TYR:CE1	1:H:198:LEU:CD1	2.63	0.82
1:I:104:GLN:HB2	1:K:205:ILE:HD11	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:275:PRO:CB	1:J:285:MET:CG	2.48	0.82
1:L:66:ALA:O	1:L:67:TYR:O	1.97	0.82
1:O:251:LYS:O	1:O:252:LEU:HB3	1.78	0.82
1:G:251:LYS:O	1:G:252:LEU:HB3	1.78	0.81
1:I:286:ARG:HH12	1:K:268:VAL:CG1	1.92	0.81
1:K:251:LYS:O	1:K:252:LEU:HB3	1.78	0.81
1:M:66:ALA:O	1:M:67:TYR:O	1.97	0.81
1:O:159:ILE:HG21	1:O:258:VAL:CG2	1.91	0.81
1:I:174:TYR:CE1	1:I:198:LEU:CD1	2.63	0.81
1:L:129:VAL:HG13	1:L:187:MET:HG3	1.61	0.81
1:N:144:TYR:N	1:N:263:VAL:O	2.12	0.81
1:P:268:VAL:CG1	1:Q:286:ARG:HH12	1.92	0.81
1:Q:66:ALA:O	1:Q:67:TYR:O	1.97	0.81
1:Q:251:LYS:O	1:Q:252:LEU:HB3	1.78	0.81
1:F:138:ASN:O	1:F:258:VAL:HA	1.81	0.81
1:F:144:TYR:CZ	1:F:146:ALA:HB2	2.14	0.81
1:F:268:VAL:CG1	1:G:286:ARG:HH12	1.92	0.81
1:F:285:MET:HE1	1:H:276:THR:HA	0.82	0.81
1:G:127:PHE:HD2	1:G:155:LEU:CD2	1.93	0.81
1:J:277:THR:HG22	1:J:279:PRO:HD3	1.63	0.81
1:K:127:PHE:HD2	1:K:155:LEU:CD2	1.93	0.81
1:M:69:ASN:O	1:M:70:SER:HB2	1.80	0.81
1:M:251:LYS:O	1:M:252:LEU:HB3	1.78	0.81
1:O:144:TYR:CZ	1:O:146:ALA:HB2	2.15	0.81
1:H:277:THR:HG22	1:H:279:PRO:HD3	1.63	0.81
1:L:205:ILE:HD11	1:M:104:GLN:HB2	1.61	0.81
1:N:117:TYR:HE2	1:P:167:PRO:O	1.63	0.81
1:N:138:ASN:O	1:N:258:VAL:HA	1.81	0.81
1:N:144:TYR:HD2	1:N:145:ASP:N	1.78	0.81
1:O:268:VAL:CG1	1:P:286:ARG:HH12	1.92	0.81
1:Q:129:VAL:HG13	1:Q:187:MET:HG3	1.61	0.81
1:J:144:TYR:HE2	1:J:146:ALA:CB	1.92	0.81
1:K:138:ASN:O	1:K:258:VAL:HA	1.81	0.81
1:L:138:ASN:O	1:L:258:VAL:HA	1.81	0.81
1:H:121:TYR:HB2	1:H:127:PHE:HB2	1.63	0.81
1:L:144:TYR:HE2	1:L:146:ALA:CB	1.94	0.81
1:L:174:TYR:CE1	1:L:198:LEU:CD1	2.63	0.81
1:L:268:VAL:CG1	1:M:286:ARG:HH12	1.92	0.81
1:P:129:VAL:HG13	1:P:187:MET:HG3	1.61	0.81
1:B:174:TYR:CE1	1:B:198:LEU:CD1	2.63	0.81
1:G:138:ASN:O	1:G:258:VAL:HA	1.81	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:174:TYR:CE1	1:G:198:LEU:CD1	2.63	0.81
1:I:138:ASN:O	1:I:258:VAL:HA	1.81	0.81
1:J:142:MET:HE2	1:J:152:MET:HE1	1.60	0.81
1:K:144:TYR:C	1:K:144:TYR:CD2	2.49	0.81
1:K:159:ILE:HG21	1:K:258:VAL:CG2	1.91	0.81
1:O:104:GLN:HB2	1:Q:205:ILE:HD11	1.61	0.81
1:O:138:ASN:O	1:O:258:VAL:HA	1.81	0.81
1:P:174:TYR:CE1	1:P:198:LEU:CD1	2.63	0.81
1:F:252:LEU:CG	1:F:253:GLY:H	1.83	0.81
1:I:66:ALA:O	1:I:67:TYR:O	1.97	0.81
1:I:268:VAL:CG1	1:J:286:ARG:HH12	1.92	0.81
1:J:144:TYR:N	1:J:263:VAL:O	2.12	0.81
1:J:174:TYR:CE1	1:J:198:LEU:CD1	2.63	0.81
1:K:168:MET:HE3	1:K:175:TYR:CD1	2.15	0.81
1:O:66:ALA:O	1:O:67:TYR:O	1.97	0.81
1:P:121:TYR:HB2	1:P:127:PHE:HB2	1.63	0.81
1:B:105:LEU:O	1:B:108:THR:CG2	2.24	0.81
1:F:144:TYR:CE2	1:F:146:ALA:CB	2.64	0.81
1:F:277:THR:HG22	1:F:279:PRO:HD3	1.63	0.81
1:H:258:VAL:CG1	1:H:259:ALA:N	2.44	0.81
1:J:69:ASN:O	1:J:70:SER:HB2	1.80	0.81
1:J:121:TYR:HB2	1:J:127:PHE:HB2	1.63	0.81
1:K:174:TYR:CE1	1:K:198:LEU:CD1	2.63	0.81
1:M:121:TYR:HB2	1:M:127:PHE:HB2	1.63	0.81
1:B:277:THR:HG22	1:B:279:PRO:HD3	1.63	0.81
1:G:105:LEU:O	1:G:108:THR:CG2	2.23	0.81
1:K:66:ALA:O	1:K:67:TYR:O	1.97	0.81
1:K:121:TYR:HB2	1:K:127:PHE:HB2	1.63	0.81
1:M:191:CYS:CB	1:M:244:CYS:HG	1.94	0.81
1:P:229:VAL:HG11	1:P:235:HIS:ND1	1.96	0.81
1:P:258:VAL:CG1	1:P:259:ALA:N	2.44	0.81
1:Q:127:PHE:HD2	1:Q:155:LEU:CD2	1.93	0.81
1:Q:174:TYR:CE1	1:Q:198:LEU:CD1	2.63	0.81
1:G:144:TYR:CZ	1:G:146:ALA:HB2	2.16	0.80
1:I:258:VAL:CG1	1:I:259:ALA:N	2.44	0.80
1:N:127:PHE:O	1:N:131:PRO:HG3	1.82	0.80
1:O:174:TYR:CE1	1:O:198:LEU:CD1	2.63	0.80
1:P:138:ASN:O	1:P:258:VAL:HA	1.81	0.80
1:Q:138:ASN:O	1:Q:258:VAL:HA	1.81	0.80
1:F:174:TYR:CE1	1:F:198:LEU:CD1	2.63	0.80
1:M:154:GLU:OE1	1:M:225:VAL:HA	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:258:VAL:CG1	1:M:259:ALA:N	2.44	0.80
1:Q:69:ASN:O	1:Q:70:SER:HB2	1.81	0.80
1:F:258:VAL:CG1	1:F:259:ALA:N	2.44	0.80
1:H:251:LYS:O	1:H:252:LEU:HB3	1.78	0.80
1:J:138:ASN:O	1:J:258:VAL:HA	1.81	0.80
1:J:229:VAL:HG11	1:J:235:HIS:ND1	1.97	0.80
1:M:144:TYR:HE2	1:M:146:ALA:CB	1.94	0.80
1:M:174:TYR:CE1	1:M:198:LEU:CD1	2.63	0.80
1:O:144:TYR:HD2	1:O:145:ASP:N	1.79	0.80
1:G:144:TYR:CE2	1:G:146:ALA:CB	2.64	0.80
1:H:127:PHE:O	1:H:131:PRO:HG3	1.81	0.80
1:I:154:GLU:OE1	1:I:225:VAL:HA	1.82	0.80
1:L:229:VAL:HG11	1:L:235:HIS:ND1	1.97	0.80
1:N:69:ASN:O	1:N:70:SER:HB2	1.80	0.80
1:O:127:PHE:O	1:O:131:PRO:HG3	1.82	0.80
1:Q:191:CYS:CB	1:Q:244:CYS:HG	1.94	0.80
1:B:138:ASN:O	1:B:258:VAL:HA	1.81	0.80
1:F:205:ILE:HD11	1:G:104:GLN:HB2	1.62	0.80
1:G:251:LYS:C	1:G:252:LEU:HD23	2.02	0.80
1:I:121:TYR:HB2	1:I:127:PHE:HB2	1.63	0.80
1:J:276:THR:HA	1:K:285:MET:HE1	0.80	0.80
1:M:138:ASN:O	1:M:258:VAL:HA	1.81	0.80
1:Q:277:THR:HG22	1:Q:279:PRO:HD3	1.63	0.80
1:F:229:VAL:HG11	1:F:235:HIS:ND1	1.97	0.80
1:F:251:LYS:C	1:F:252:LEU:HD23	2.02	0.80
1:H:138:ASN:O	1:H:258:VAL:HA	1.81	0.80
1:H:229:VAL:HG11	1:H:235:HIS:ND1	1.97	0.80
1:L:104:GLN:HB2	1:N:205:ILE:HD11	1.61	0.80
1:L:121:TYR:HB2	1:L:127:PHE:HB2	1.63	0.80
1:L:258:VAL:CG1	1:L:259:ALA:N	2.44	0.80
1:L:285:MET:CG	1:N:275:PRO:CB	2.48	0.80
1:N:127:PHE:HD2	1:N:155:LEU:CD2	1.93	0.80
1:N:229:VAL:HG11	1:N:235:HIS:ND1	1.97	0.80
1:O:129:VAL:O	1:O:131:PRO:HD2	1.82	0.80
1:P:300:VAL:O	1:P:303:VAL:CG2	2.30	0.80
1:Q:121:TYR:HB2	1:Q:127:PHE:HB2	1.63	0.80
1:Q:168:MET:HE1	1:Q:175:TYR:CD1	2.15	0.80
1:B:121:TYR:HB2	1:B:127:PHE:HB2	1.63	0.80
1:F:191:CYS:CB	1:F:244:CYS:HG	1.94	0.80
1:G:205:ILE:HD11	1:H:104:GLN:HB2	1.62	0.80
1:I:144:TYR:N	1:I:263:VAL:O	2.12	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:127:PHE:HD2	1:M:155:LEU:CD2	1.93	0.80
1:Q:73:GLU:O	1:Q:73:GLU:HG2	1.82	0.80
1:B:144:TYR:N	1:B:263:VAL:O	2.12	0.80
1:B:251:LYS:C	1:B:252:LEU:HD23	2.02	0.80
1:B:258:VAL:CG1	1:B:259:ALA:N	2.44	0.80
1:G:154:GLU:OE1	1:G:225:VAL:HA	1.82	0.80
1:K:154:GLU:OE1	1:K:225:VAL:HA	1.82	0.80
1:K:277:THR:HG22	1:K:279:PRO:HD3	1.63	0.80
1:L:69:ASN:O	1:L:70:SER:HB2	1.81	0.80
1:L:154:GLU:OE1	1:L:225:VAL:HA	1.82	0.80
1:L:277:THR:HG22	1:L:279:PRO:HD3	1.63	0.80
1:M:127:PHE:O	1:M:131:PRO:HG3	1.82	0.80
1:M:205:ILE:HD11	1:N:104:GLN:HB2	1.62	0.80
1:N:258:VAL:CG1	1:N:259:ALA:N	2.44	0.80
1:P:205:ILE:HD11	1:Q:104:GLN:HB2	1.62	0.80
1:P:251:LYS:C	1:P:252:LEU:HD23	2.02	0.80
1:G:229:VAL:HG11	1:G:235:HIS:ND1	1.97	0.80
1:I:300:VAL:O	1:I:303:VAL:CG2	2.30	0.80
1:O:258:VAL:CG1	1:O:259:ALA:N	2.44	0.80
1:P:73:GLU:O	1:P:73:GLU:HG2	1.79	0.80
1:Q:251:LYS:C	1:Q:252:LEU:HD23	2.02	0.80
1:Q:300:VAL:O	1:Q:303:VAL:CG2	2.30	0.80
1:B:127:PHE:O	1:B:131:PRO:HG3	1.82	0.80
1:F:275:PRO:CB	1:G:285:MET:CG	2.48	0.80
1:I:127:PHE:O	1:I:131:PRO:HG3	1.82	0.80
1:J:154:GLU:OE1	1:J:225:VAL:HA	1.82	0.80
1:K:144:TYR:HE2	1:K:146:ALA:CB	1.94	0.80
1:L:251:LYS:C	1:L:252:LEU:HD23	2.02	0.80
1:M:300:VAL:O	1:M:303:VAL:CG2	2.30	0.80
1:N:144:TYR:CZ	1:N:146:ALA:HB2	2.17	0.80
1:N:174:TYR:CE1	1:N:198:LEU:CD1	2.63	0.80
1:O:121:TYR:HB2	1:O:127:PHE:HB2	1.63	0.80
1:B:300:VAL:O	1:B:303:VAL:CG2	2.30	0.79
1:F:300:VAL:O	1:F:303:VAL:CG2	2.30	0.79
1:G:258:VAL:CG1	1:G:259:ALA:N	2.44	0.79
1:J:258:VAL:CG1	1:J:259:ALA:N	2.44	0.79
1:K:127:PHE:O	1:K:131:PRO:HG3	1.82	0.79
1:K:251:LYS:C	1:K:252:LEU:HD23	2.02	0.79
1:K:300:VAL:O	1:K:303:VAL:CG2	2.30	0.79
1:O:251:LYS:C	1:O:252:LEU:HD23	2.02	0.79
1:Q:159:ILE:HG21	1:Q:258:VAL:CG2	1.91	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:258:VAL:CG1	1:Q:259:ALA:N	2.44	0.79
1:J:125:ALA:HB3	1:J:223:LYS:HD3	1.65	0.79
1:L:168:MET:HE3	1:L:175:TYR:CD1	2.18	0.79
1:M:129:VAL:O	1:M:131:PRO:HD2	1.82	0.79
1:N:129:VAL:O	1:N:131:PRO:HD2	1.82	0.79
1:O:142:MET:HE2	1:O:152:MET:HE1	1.54	0.79
1:P:105:LEU:O	1:P:108:THR:CG2	2.24	0.79
1:B:252:LEU:CG	1:B:253:GLY:H	1.83	0.79
1:F:69:ASN:O	1:F:70:SER:HB2	1.81	0.79
1:F:127:PHE:HD2	1:F:155:LEU:CD2	1.93	0.79
1:H:154:GLU:OE1	1:H:225:VAL:HA	1.82	0.79
1:I:229:VAL:HG11	1:I:235:HIS:ND1	1.97	0.79
1:L:300:VAL:O	1:L:303:VAL:CG2	2.30	0.79
1:M:277:THR:HG22	1:M:279:PRO:HD3	1.63	0.79
1:N:144:TYR:CE2	1:N:146:ALA:CB	2.63	0.79
1:N:277:THR:HG22	1:N:279:PRO:HD3	1.63	0.79
1:P:69:ASN:O	1:P:70:SER:HB2	1.81	0.79
1:Q:144:TYR:CZ	1:Q:146:ALA:HB2	2.17	0.79
1:B:129:VAL:O	1:B:131:PRO:HD2	1.82	0.79
1:G:277:THR:HG22	1:G:279:PRO:HD3	1.63	0.79
1:H:300:VAL:O	1:H:303:VAL:CG2	2.30	0.79
1:J:129:VAL:O	1:J:131:PRO:HD2	1.82	0.79
1:J:251:LYS:C	1:J:252:LEU:HD23	2.02	0.79
1:K:129:VAL:O	1:K:131:PRO:HD2	1.82	0.79
1:K:229:VAL:HG11	1:K:235:HIS:ND1	1.97	0.79
1:M:229:VAL:HG11	1:M:235:HIS:ND1	1.97	0.79
1:O:289:TRP:O	1:Q:150:LEU:CD2	2.27	0.79
1:O:300:VAL:O	1:O:303:VAL:CG2	2.30	0.79
1:P:142:MET:HE2	1:P:152:MET:HE1	1.63	0.79
1:B:144:TYR:HE2	1:B:146:ALA:CB	1.94	0.79
1:I:251:LYS:C	1:I:252:LEU:HD23	2.02	0.79
1:N:121:TYR:HB2	1:N:127:PHE:HB2	1.63	0.79
1:N:251:LYS:C	1:N:252:LEU:HD23	2.02	0.79
1:P:277:THR:HG22	1:P:279:PRO:HD3	1.63	0.79
1:F:129:VAL:O	1:F:131:PRO:HD2	1.82	0.79
1:J:105:LEU:O	1:J:108:THR:CG2	2.23	0.79
1:K:258:VAL:CG1	1:K:259:ALA:N	2.44	0.79
1:M:144:TYR:HD2	1:M:144:TYR:C	1.85	0.79
1:O:144:TYR:CE2	1:O:146:ALA:CB	2.64	0.79
1:F:154:GLU:OE1	1:F:225:VAL:HA	1.82	0.79
1:G:159:ILE:HG22	1:G:258:VAL:CG2	1.98	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:129:VAL:O	1:H:131:PRO:HD2	1.82	0.79
1:O:144:TYR:C	1:O:144:TYR:CD2	2.55	0.79
1:O:150:LEU:CD2	1:P:289:TRP:O	2.27	0.79
1:O:277:THR:HG22	1:O:279:PRO:HD3	1.63	0.79
1:Q:125:ALA:HB3	1:Q:223:LYS:HD3	1.64	0.79
1:Q:127:PHE:O	1:Q:131:PRO:HG3	1.82	0.79
1:G:121:TYR:HB2	1:G:127:PHE:HB2	1.63	0.79
1:H:69:ASN:O	1:H:70:SER:HB2	1.81	0.79
1:M:275:PRO:CB	1:N:285:MET:CG	2.48	0.79
1:B:229:VAL:HG11	1:B:235:HIS:ND1	1.97	0.79
1:F:127:PHE:O	1:F:131:PRO:HG3	1.82	0.79
1:H:251:LYS:C	1:H:252:LEU:HD23	2.02	0.79
1:O:150:LEU:CD2	1:P:290:LYS:HG2	2.12	0.79
1:O:154:GLU:OE1	1:O:225:VAL:HA	1.82	0.79
1:P:129:VAL:O	1:P:131:PRO:HD2	1.82	0.79
1:P:144:TYR:HD2	1:P:144:TYR:C	1.86	0.79
1:F:121:TYR:HB2	1:F:127:PHE:HB2	1.63	0.79
1:F:150:LEU:CD2	1:G:290:LYS:HG2	2.12	0.79
1:L:127:PHE:O	1:L:131:PRO:HG3	1.82	0.79
1:L:129:VAL:O	1:L:131:PRO:HD2	1.82	0.79
1:O:159:ILE:HG22	1:O:258:VAL:CG2	1.98	0.79
1:F:104:GLN:HB2	1:H:205:ILE:HD11	1.61	0.78
1:G:69:ASN:O	1:G:70:SER:HB2	1.81	0.78
1:I:69:ASN:O	1:I:70:SER:HB2	1.81	0.78
1:I:277:THR:HG22	1:I:279:PRO:HD3	1.63	0.78
1:J:300:VAL:O	1:J:303:VAL:CG2	2.30	0.78
1:L:127:PHE:HD2	1:L:155:LEU:CD2	1.93	0.78
1:M:144:TYR:C	1:M:144:TYR:CD2	2.57	0.78
1:Q:129:VAL:O	1:Q:131:PRO:HD2	1.82	0.78
1:G:127:PHE:O	1:G:131:PRO:HG3	1.82	0.78
1:G:300:VAL:O	1:G:303:VAL:CG2	2.30	0.78
1:I:159:ILE:HG21	1:I:258:VAL:CG2	1.91	0.78
1:L:126:SER:CA	1:L:223:LYS:HZ1	1.92	0.78
1:N:300:VAL:O	1:N:303:VAL:CG2	2.30	0.78
1:O:276:THR:C	1:P:285:MET:HE1	2.03	0.78
1:G:276:THR:HA	1:H:285:MET:HE1	0.78	0.78
1:I:285:MET:HE1	1:K:276:THR:C	2.03	0.78
1:B:154:GLU:OE1	1:B:225:VAL:HA	1.82	0.78
1:N:154:GLU:OE1	1:N:225:VAL:HA	1.82	0.78
1:O:127:PHE:HD2	1:O:155:LEU:CD2	1.93	0.78
1:O:229:VAL:HG11	1:O:235:HIS:ND1	1.97	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:266:SER:HA	1:B:286:ARG:HH22	1.49	0.78
1:F:125:ALA:HB3	1:F:223:LYS:HD3	1.64	0.78
1:H:127:PHE:HD2	1:H:155:LEU:CD2	1.93	0.78
1:P:125:ALA:HB3	1:P:223:LYS:HD3	1.64	0.78
1:P:266:SER:HA	1:P:286:ARG:HH22	1.49	0.78
1:J:150:LEU:CD2	1:K:289:TRP:O	2.27	0.78
1:F:73:GLU:O	1:F:73:GLU:HG2	1.82	0.78
1:P:154:GLU:OE1	1:P:225:VAL:HA	1.82	0.78
1:G:129:VAL:O	1:G:131:PRO:HD2	1.82	0.78
1:M:251:LYS:C	1:M:252:LEU:HD23	2.02	0.78
1:N:266:SER:HA	1:N:286:ARG:HH22	1.49	0.78
1:G:150:LEU:CD2	1:H:290:LYS:HG2	2.12	0.78
1:G:258:VAL:HG12	1:G:259:ALA:N	1.99	0.78
1:H:258:VAL:HG12	1:H:259:ALA:N	1.99	0.78
1:I:129:VAL:O	1:I:131:PRO:HD2	1.82	0.78
1:M:267:ASP:OD1	1:M:286:ARG:HD2	1.84	0.78
1:Q:154:GLU:OE1	1:Q:225:VAL:HA	1.82	0.78
1:B:267:ASP:OD1	1:B:286:ARG:HD2	1.84	0.78
1:H:159:ILE:HG21	1:H:258:VAL:CG2	1.91	0.78
1:K:144:TYR:N	1:K:263:VAL:O	2.14	0.78
1:P:127:PHE:O	1:P:131:PRO:HG3	1.82	0.78
1:Q:267:ASP:OD1	1:Q:286:ARG:HD2	1.84	0.78
1:I:127:PHE:HD2	1:I:155:LEU:CD2	1.93	0.77
1:L:267:ASP:OD1	1:L:286:ARG:HD2	1.84	0.77
1:O:144:TYR:HD2	1:O:144:TYR:C	1.86	0.77
1:O:266:SER:HA	1:O:286:ARG:HH22	1.49	0.77
1:P:150:LEU:CD2	1:Q:290:LYS:HG2	2.12	0.77
1:Q:266:SER:HA	1:Q:286:ARG:HH22	1.49	0.77
1:J:127:PHE:O	1:J:131:PRO:HG3	1.82	0.77
1:J:258:VAL:HG12	1:J:259:ALA:N	1.99	0.77
1:L:266:SER:HA	1:L:286:ARG:HH22	1.49	0.77
1:J:127:PHE:HD2	1:J:155:LEU:CD2	1.93	0.77
1:J:150:LEU:CD2	1:K:290:LYS:HG2	2.12	0.77
1:K:266:SER:HA	1:K:286:ARG:HH22	1.49	0.77
1:L:258:VAL:HG12	1:L:259:ALA:N	1.99	0.77
1:P:127:PHE:HD2	1:P:155:LEU:CD2	1.93	0.77
1:F:159:ILE:HG21	1:F:258:VAL:CG2	1.91	0.77
1:K:267:ASP:OD1	1:K:286:ARG:HD2	1.84	0.77
1:M:276:THR:C	1:N:285:MET:HE1	2.04	0.77
1:B:144:TYR:HD2	1:B:145:ASP:N	1.82	0.77
1:B:258:VAL:HG12	1:B:259:ALA:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:159:ILE:HG22	1:J:258:VAL:CG2	1.98	0.77
1:J:262:GLN:OE1	1:J:267:ASP:OD2	2.03	0.77
1:N:130:ASP:N	1:N:131:PRO:HD2	1.74	0.77
1:P:191:CYS:CB	1:P:244:CYS:HG	1.96	0.77
1:B:174:TYR:CE1	1:B:198:LEU:HD12	2.20	0.77
1:F:276:THR:HA	1:G:285:MET:HE1	0.77	0.77
1:F:289:TRP:O	1:H:150:LEU:CD2	2.27	0.77
1:H:267:ASP:OD1	1:H:286:ARG:HD2	1.84	0.77
1:L:142:MET:HE2	1:L:152:MET:HE1	1.60	0.77
1:N:258:VAL:HG12	1:N:259:ALA:N	1.99	0.77
1:F:150:LEU:CD2	1:G:289:TRP:O	2.27	0.77
1:I:150:LEU:CD2	1:J:289:TRP:O	2.27	0.77
1:K:258:VAL:HG12	1:K:259:ALA:N	1.99	0.77
1:N:262:GLN:OE1	1:N:267:ASP:OD2	2.03	0.77
1:O:174:TYR:CE1	1:O:198:LEU:HD12	2.20	0.77
1:O:267:ASP:OD1	1:O:286:ARG:HD2	1.84	0.77
1:P:268:VAL:CG1	1:Q:286:ARG:NH1	2.48	0.77
1:Q:258:VAL:HG12	1:Q:259:ALA:N	1.99	0.77
1:G:150:LEU:CD2	1:H:289:TRP:O	2.27	0.77
1:G:174:TYR:CE1	1:G:198:LEU:HD12	2.20	0.77
1:H:262:GLN:OE1	1:H:267:ASP:OD2	2.03	0.77
1:H:266:SER:HA	1:H:286:ARG:HH22	1.49	0.77
1:I:290:LYS:HG2	1:K:150:LEU:CD2	2.12	0.77
1:L:150:LEU:CD2	1:M:289:TRP:O	2.27	0.77
1:P:262:GLN:OE1	1:P:267:ASP:OD2	2.03	0.77
1:Q:262:GLN:OE1	1:Q:267:ASP:OD2	2.03	0.77
1:F:262:GLN:OE1	1:F:267:ASP:OD2	2.03	0.77
1:F:268:VAL:CG1	1:G:286:ARG:NH1	2.48	0.77
1:J:266:SER:HA	1:J:286:ARG:HH22	1.49	0.77
1:L:159:ILE:HG21	1:L:258:VAL:CG2	1.91	0.77
1:M:262:GLN:OE1	1:M:267:ASP:OD2	2.03	0.77
1:M:266:SER:HA	1:M:286:ARG:HH22	1.49	0.77
1:M:268:VAL:CG1	1:N:286:ARG:NH1	2.48	0.77
1:N:168:MET:HE3	1:N:175:TYR:CD1	2.18	0.77
1:N:267:ASP:OD1	1:N:286:ARG:HD2	1.84	0.77
1:P:174:TYR:CE1	1:P:198:LEU:HD12	2.20	0.77
1:B:159:ILE:HG22	1:B:258:VAL:CG2	1.98	0.77
1:G:276:THR:C	1:H:285:MET:HE1	2.06	0.77
1:L:73:GLU:HG2	1:L:73:GLU:O	1.86	0.77
1:L:268:VAL:CG1	1:M:286:ARG:NH1	2.48	0.77
1:P:150:LEU:CD2	1:Q:289:TRP:O	2.27	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:229:VAL:HG11	1:Q:235:HIS:ND1	1.97	0.77
1:F:258:VAL:HG12	1:F:259:ALA:N	1.99	0.76
1:G:267:ASP:OD1	1:G:286:ARG:HD2	1.84	0.76
1:I:267:ASP:OD1	1:I:286:ARG:HD2	1.84	0.76
1:N:162:GLU:N	1:N:253:GLY:O	2.19	0.76
1:O:262:GLN:OE1	1:O:267:ASP:OD2	2.03	0.76
1:P:258:VAL:HG12	1:P:259:ALA:N	1.99	0.76
1:Q:174:TYR:CE1	1:Q:198:LEU:HD12	2.20	0.76
1:G:73:GLU:HG2	1:G:73:GLU:O	1.84	0.76
1:G:125:ALA:CB	1:G:223:LYS:CD	2.53	0.76
1:K:262:GLN:OE1	1:K:267:ASP:OD2	2.03	0.76
1:L:168:MET:HE2	1:L:175:TYR:CE2	2.20	0.76
1:L:276:THR:C	1:M:285:MET:HE1	2.04	0.76
1:L:286:ARG:NH1	1:N:268:VAL:CG1	2.48	0.76
1:M:258:VAL:HG12	1:M:259:ALA:N	1.99	0.76
1:P:276:THR:HA	1:Q:285:MET:HE1	0.77	0.76
1:P:276:THR:C	1:Q:285:MET:HE1	2.05	0.76
1:B:127:PHE:HD2	1:B:155:LEU:CD2	1.93	0.76
1:B:144:TYR:CZ	1:B:146:ALA:HB2	2.19	0.76
1:G:268:VAL:CG1	1:H:286:ARG:NH1	2.48	0.76
1:H:174:TYR:CE1	1:H:198:LEU:HD12	2.20	0.76
1:I:276:THR:C	1:J:285:MET:HE1	2.04	0.76
1:M:162:GLU:O	1:M:252:LEU:HD23	1.85	0.76
1:P:162:GLU:N	1:P:253:GLY:O	2.19	0.76
1:F:276:THR:C	1:G:285:MET:HE1	2.05	0.76
1:I:266:SER:HA	1:I:286:ARG:HH22	1.49	0.76
1:I:268:VAL:CG1	1:J:286:ARG:NH1	2.48	0.76
1:J:268:VAL:CG1	1:K:286:ARG:NH1	2.48	0.76
1:L:262:GLN:OE1	1:L:267:ASP:OD2	2.03	0.76
1:N:174:TYR:CE1	1:N:198:LEU:HD12	2.20	0.76
1:I:262:GLN:OE1	1:I:267:ASP:OD2	2.03	0.76
1:K:159:ILE:HG22	1:K:258:VAL:CG2	1.98	0.76
1:B:162:GLU:N	1:B:253:GLY:O	2.19	0.76
1:H:293:TRP:CE3	1:H:297:TYR:CE1	2.74	0.76
1:L:162:GLU:N	1:L:253:GLY:O	2.19	0.76
1:O:162:GLU:N	1:O:253:GLY:O	2.19	0.76
1:O:258:VAL:HG12	1:O:259:ALA:N	1.99	0.76
1:F:174:TYR:CE1	1:F:198:LEU:HD12	2.20	0.76
1:F:293:TRP:CE3	1:F:297:TYR:CE1	2.74	0.76
1:I:162:GLU:N	1:I:253:GLY:O	2.19	0.76
1:I:286:ARG:NH1	1:K:268:VAL:CG1	2.48	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:293:TRP:CE3	1:J:297:TYR:CE1	2.74	0.76
1:L:289:TRP:O	1:N:150:LEU:CD2	2.27	0.76
1:F:267:ASP:OD1	1:F:286:ARG:HD2	1.84	0.76
1:G:293:TRP:CE3	1:G:297:TYR:CE1	2.74	0.76
1:I:258:VAL:HG12	1:I:259:ALA:N	1.99	0.76
1:J:162:GLU:N	1:J:253:GLY:O	2.19	0.76
1:J:267:ASP:OD1	1:J:286:ARG:HD2	1.84	0.76
1:P:126:SER:CA	1:P:223:LYS:HZ1	1.92	0.76
1:Q:162:GLU:N	1:Q:253:GLY:O	2.19	0.76
1:Q:293:TRP:CE3	1:Q:297:TYR:CE1	2.74	0.76
1:G:168:MET:HE3	1:G:175:TYR:CD1	2.20	0.76
1:L:144:TYR:CZ	1:L:146:ALA:HB2	2.20	0.76
1:O:212:THR:HA	1:O:215:PHE:CD1	2.21	0.76
1:O:286:ARG:NH1	1:Q:268:VAL:CG1	2.48	0.76
1:B:293:TRP:CE3	1:B:297:TYR:CE1	2.74	0.76
1:G:262:GLN:OE1	1:G:267:ASP:OD2	2.03	0.76
1:I:154:GLU:OE1	1:I:226:ILE:N	2.19	0.76
1:J:154:GLU:OE1	1:J:226:ILE:N	2.19	0.76
1:K:174:TYR:CE1	1:K:198:LEU:HD12	2.20	0.76
1:L:174:TYR:CE1	1:L:198:LEU:HD12	2.20	0.76
1:M:212:THR:HA	1:M:215:PHE:CD1	2.21	0.76
1:P:212:THR:HA	1:P:215:PHE:CD1	2.21	0.76
1:P:267:ASP:OD1	1:P:286:ARG:HD2	1.84	0.76
1:J:174:TYR:CE1	1:J:198:LEU:HD12	2.20	0.75
1:L:293:TRP:CE3	1:L:297:TYR:CE1	2.74	0.75
1:O:125:ALA:HB3	1:O:223:LYS:HD3	1.64	0.75
1:P:144:TYR:C	1:P:144:TYR:CD2	2.58	0.75
1:Q:144:TYR:CE2	1:Q:146:ALA:CB	2.64	0.75
1:F:266:SER:HA	1:F:286:ARG:HH22	1.49	0.75
1:G:162:GLU:N	1:G:253:GLY:O	2.19	0.75
1:H:144:TYR:CZ	1:H:146:ALA:HB2	2.21	0.75
1:H:154:GLU:OE1	1:H:226:ILE:N	2.19	0.75
1:I:293:TRP:CE3	1:I:297:TYR:CE1	2.74	0.75
1:M:293:TRP:CE3	1:M:297:TYR:CE1	2.74	0.75
1:O:268:VAL:CG1	1:P:286:ARG:NH1	2.48	0.75
1:J:191:CYS:CB	1:J:244:CYS:HG	1.98	0.75
1:L:276:THR:HA	1:M:285:MET:HE1	0.75	0.75
1:N:293:TRP:CE3	1:N:297:TYR:CE1	2.74	0.75
1:F:286:ARG:NH1	1:H:268:VAL:CG1	2.48	0.75
1:I:125:ALA:HB3	1:I:223:LYS:HD3	1.64	0.75
1:K:293:TRP:CE3	1:K:297:TYR:CE1	2.74	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:154:GLU:OE1	1:M:226:ILE:N	2.19	0.75
1:N:212:THR:HA	1:N:215:PHE:CD1	2.21	0.75
1:P:293:TRP:CE3	1:P:297:TYR:CE1	2.74	0.75
1:G:266:SER:HA	1:G:286:ARG:HH22	1.49	0.75
1:I:212:THR:HA	1:I:215:PHE:CD1	2.21	0.75
1:I:276:THR:HA	1:J:285:MET:HE1	0.76	0.75
1:I:289:TRP:O	1:K:150:LEU:CD2	2.27	0.75
1:I:150:LEU:CD2	1:J:290:LYS:HG2	2.12	0.75
1:N:154:GLU:OE1	1:N:226:ILE:N	2.19	0.75
1:N:159:ILE:HG22	1:N:258:VAL:CG2	1.98	0.75
1:Q:212:THR:HA	1:Q:215:PHE:CD1	2.21	0.75
1:H:162:GLU:N	1:H:253:GLY:O	2.19	0.75
1:J:212:THR:HA	1:J:215:PHE:CD1	2.21	0.75
1:K:154:GLU:OE1	1:K:226:ILE:N	2.19	0.75
1:K:168:MET:HE3	1:K:175:TYR:CE1	2.16	0.75
1:N:168:MET:HE2	1:N:175:TYR:CE2	2.21	0.75
1:G:162:GLU:O	1:G:252:LEU:HD23	1.85	0.75
1:H:126:SER:CA	1:H:223:LYS:HZ1	1.95	0.75
1:H:212:THR:HA	1:H:215:PHE:CD1	2.21	0.75
1:I:191:CYS:CB	1:I:244:CYS:HG	1.99	0.75
1:K:162:GLU:N	1:K:253:GLY:O	2.19	0.75
1:O:293:TRP:CE3	1:O:297:TYR:CE1	2.74	0.75
1:P:252:LEU:CG	1:P:253:GLY:H	1.83	0.75
1:F:162:GLU:N	1:F:253:GLY:O	2.19	0.75
1:F:212:THR:HA	1:F:215:PHE:CD1	2.21	0.75
1:F:290:LYS:HG2	1:H:150:LEU:CD2	2.12	0.75
1:L:162:GLU:O	1:L:252:LEU:HD23	1.85	0.75
1:M:276:THR:HA	1:N:285:MET:HE1	0.76	0.75
1:O:205:ILE:CD1	1:P:104:GLN:CD	2.47	0.75
1:Q:64:ASP:C	1:Q:65:THR:CG2	2.51	0.75
1:F:285:MET:HE1	1:H:276:THR:C	2.07	0.74
1:G:125:ALA:HB3	1:G:223:LYS:HD3	1.64	0.74
1:M:174:TYR:CE1	1:M:198:LEU:HD12	2.20	0.74
1:I:174:TYR:CE1	1:I:198:LEU:HD12	2.20	0.74
1:J:162:GLU:O	1:J:252:LEU:HD23	1.85	0.74
1:J:276:THR:C	1:K:285:MET:HE1	2.06	0.74
1:M:150:LEU:CD2	1:N:289:TRP:O	2.27	0.74
1:N:117:TYR:CZ	1:P:167:PRO:O	2.40	0.74
1:Q:154:GLU:OE1	1:Q:226:ILE:N	2.19	0.74
1:B:293:TRP:HE3	1:B:297:TYR:CE1	2.06	0.74
1:G:212:THR:HA	1:G:215:PHE:CD1	2.21	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:135:CYS:SG	1:H:137:TYR:O	2.46	0.74
1:H:237:LEU:HD21	1:H:246:ILE:HD13	1.70	0.74
1:L:154:GLU:OE1	1:L:226:ILE:N	2.19	0.74
1:L:212:THR:HA	1:L:215:PHE:CD1	2.21	0.74
1:K:73:GLU:O	1:K:73:GLU:HG2	1.87	0.74
1:K:124:ILE:HD13	1:K:152:MET:CG	2.17	0.74
1:M:135:CYS:SG	1:M:137:TYR:O	2.45	0.74
1:O:144:TYR:OH	1:O:146:ALA:HB2	1.88	0.74
1:P:293:TRP:HE3	1:P:297:TYR:CE1	2.06	0.74
1:Q:293:TRP:HE3	1:Q:297:TYR:CE1	2.06	0.74
1:B:262:GLN:OE1	1:B:267:ASP:OD2	2.03	0.74
1:I:124:ILE:HD13	1:I:152:MET:CG	2.17	0.74
1:I:237:LEU:HD21	1:I:246:ILE:HD13	1.70	0.74
1:I:293:TRP:HE3	1:I:297:TYR:CE1	2.06	0.74
1:K:212:THR:HA	1:K:215:PHE:CD1	2.21	0.74
1:M:293:TRP:HE3	1:M:297:TYR:CE1	2.06	0.74
1:N:135:CYS:SG	1:N:137:TYR:O	2.46	0.74
1:O:293:TRP:HE3	1:O:297:TYR:CE1	2.06	0.74
1:B:154:GLU:OE1	1:B:226:ILE:N	2.19	0.74
1:I:162:GLU:HB3	1:I:252:LEU:HG	1.70	0.74
1:L:268:VAL:HG12	1:M:286:ARG:HH12	1.53	0.74
1:M:162:GLU:N	1:M:253:GLY:O	2.19	0.74
1:O:162:GLU:HB3	1:O:252:LEU:HG	1.70	0.74
1:P:135:CYS:SG	1:P:137:TYR:O	2.45	0.74
1:B:125:ALA:CB	1:B:223:LYS:CD	2.53	0.74
1:F:135:CYS:SG	1:F:137:TYR:O	2.46	0.74
1:F:154:GLU:OE1	1:F:226:ILE:N	2.19	0.74
1:G:162:GLU:HB3	1:G:252:LEU:HG	1.70	0.74
1:P:237:LEU:HD21	1:P:246:ILE:HD13	1.70	0.74
1:B:237:LEU:HD21	1:B:246:ILE:HD13	1.70	0.74
1:F:162:GLU:O	1:F:252:LEU:HD23	1.85	0.74
1:L:290:LYS:HG2	1:N:150:LEU:CD2	2.12	0.74
1:O:168:MET:HE3	1:O:175:TYR:CE1	2.20	0.74
1:B:162:GLU:HB3	1:B:252:LEU:HG	1.70	0.74
1:I:277:THR:CG2	1:I:279:PRO:HD3	2.18	0.74
1:J:293:TRP:HE3	1:J:297:TYR:CE1	2.06	0.74
1:K:237:LEU:HD21	1:K:246:ILE:HD13	1.70	0.74
1:M:144:TYR:CE2	1:M:146:ALA:CB	2.70	0.74
1:O:135:CYS:SG	1:O:137:TYR:O	2.46	0.74
1:B:212:THR:HA	1:B:215:PHE:CD1	2.21	0.74
1:M:159:ILE:HG22	1:M:258:VAL:CG2	1.98	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:237:LEU:HD21	1:J:246:ILE:HD13	1.70	0.73
1:K:293:TRP:HE3	1:K:297:TYR:CE1	2.06	0.73
1:L:286:ARG:HH12	1:N:268:VAL:HG12	1.53	0.73
1:M:205:ILE:CD1	1:N:104:GLN:CD	2.47	0.73
1:P:154:GLU:OE1	1:P:226:ILE:N	2.19	0.73
1:G:135:CYS:SG	1:G:137:TYR:O	2.46	0.73
1:H:293:TRP:HE3	1:H:297:TYR:CE1	2.06	0.73
1:K:252:LEU:CG	1:K:253:GLY:H	1.83	0.73
1:N:162:GLU:O	1:N:252:LEU:HD23	1.85	0.73
1:P:162:GLU:HB3	1:P:252:LEU:HG	1.70	0.73
1:Q:144:TYR:HD2	1:Q:144:TYR:C	1.92	0.73
1:B:135:CYS:SG	1:B:137:TYR:O	2.46	0.73
1:H:252:LEU:CG	1:H:253:GLY:H	1.83	0.73
1:J:277:THR:CG2	1:J:279:PRO:HD3	2.18	0.73
1:O:252:LEU:CG	1:O:253:GLY:H	1.83	0.73
1:Q:135:CYS:SG	1:Q:137:TYR:O	2.45	0.73
1:J:144:TYR:CZ	1:J:146:ALA:HB2	2.22	0.73
1:K:162:GLU:HB3	1:K:252:LEU:HG	1.70	0.73
1:K:277:THR:CG2	1:K:279:PRO:HD3	2.18	0.73
1:N:78:THR:O	1:N:78:THR:HG22	1.88	0.73
1:O:83:LEU:HD23	1:O:139:VAL:HG13	1.71	0.73
1:F:124:ILE:HD13	1:F:152:MET:CG	2.17	0.73
1:G:237:LEU:HD21	1:G:246:ILE:HD13	1.70	0.73
1:J:135:CYS:SG	1:J:137:TYR:O	2.45	0.73
1:K:135:CYS:SG	1:K:137:TYR:O	2.45	0.73
1:M:158:LEU:HD21	1:M:185:ILE:HD13	1.71	0.73
1:B:144:TYR:C	1:B:144:TYR:CD2	2.61	0.73
1:G:205:ILE:CD1	1:H:104:GLN:CD	2.47	0.73
1:I:135:CYS:SG	1:I:137:TYR:O	2.46	0.73
1:K:158:LEU:HD21	1:K:185:ILE:HD13	1.71	0.73
1:L:124:ILE:HD13	1:L:152:MET:CG	2.17	0.73
1:M:277:THR:CG2	1:M:279:PRO:HD3	2.18	0.73
1:O:127:PHE:O	1:O:131:PRO:CD	2.37	0.73
1:Q:277:THR:CG2	1:Q:279:PRO:HD3	2.18	0.73
1:B:125:ALA:HB3	1:B:223:LYS:HD3	1.64	0.73
1:B:158:LEU:HD21	1:B:185:ILE:HD13	1.71	0.73
1:F:158:LEU:HD21	1:F:185:ILE:HD13	1.71	0.73
1:F:268:VAL:HG12	1:G:286:ARG:HH12	1.53	0.73
1:G:154:GLU:OE1	1:G:226:ILE:N	2.19	0.73
1:G:158:LEU:HD21	1:G:185:ILE:HD13	1.71	0.73
1:G:229:VAL:HG12	1:G:235:HIS:HE1	1.52	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:277:THR:CG2	1:G:279:PRO:HD3	2.18	0.73
1:G:293:TRP:HE3	1:G:297:TYR:CE1	2.06	0.73
1:H:162:GLU:O	1:H:252:LEU:HD23	1.85	0.73
1:N:237:LEU:HD21	1:N:246:ILE:HD13	1.70	0.73
1:O:277:THR:CG2	1:O:279:PRO:HD3	2.18	0.73
1:P:144:TYR:HD2	1:P:145:ASP:N	1.87	0.73
1:P:277:THR:CG2	1:P:279:PRO:HD3	2.18	0.73
1:Q:127:PHE:O	1:Q:131:PRO:CD	2.37	0.73
1:Q:162:GLU:HB3	1:Q:252:LEU:HG	1.70	0.73
1:G:150:LEU:HD21	1:H:290:LYS:CE	2.19	0.73
1:H:159:ILE:HG22	1:H:258:VAL:CG2	1.98	0.73
1:I:127:PHE:O	1:I:131:PRO:CD	2.37	0.73
1:O:150:LEU:HD21	1:P:290:LYS:CE	2.19	0.73
1:O:154:GLU:OE1	1:O:226:ILE:N	2.19	0.73
1:F:162:GLU:HB3	1:F:252:LEU:HG	1.70	0.73
1:F:286:ARG:HH12	1:H:268:VAL:HG12	1.53	0.73
1:H:168:MET:HE3	1:H:175:TYR:CE1	2.23	0.73
1:K:69:ASN:O	1:K:70:SER:HB2	1.87	0.73
1:K:127:PHE:O	1:K:131:PRO:CD	2.37	0.73
1:L:83:LEU:HD23	1:L:139:VAL:HG13	1.71	0.73
1:L:135:CYS:SG	1:L:137:TYR:O	2.45	0.73
1:L:159:ILE:HG22	1:L:258:VAL:CG2	1.98	0.73
1:M:144:TYR:CZ	1:M:146:ALA:HB2	2.23	0.73
1:O:158:LEU:HD21	1:O:185:ILE:HD13	1.71	0.73
1:P:83:LEU:HD23	1:P:139:VAL:HG13	1.71	0.73
1:Q:83:LEU:HD23	1:Q:139:VAL:HG13	1.71	0.73
1:F:293:TRP:HE3	1:F:297:TYR:CE1	2.06	0.73
1:H:127:PHE:O	1:H:131:PRO:CD	2.37	0.73
1:J:150:LEU:HD21	1:K:290:LYS:CE	2.19	0.73
1:J:158:LEU:HD21	1:J:185:ILE:HD13	1.71	0.73
1:L:127:PHE:O	1:L:131:PRO:CD	2.37	0.73
1:L:168:MET:HE2	1:L:175:TYR:CZ	2.24	0.73
1:M:127:PHE:O	1:M:131:PRO:CD	2.37	0.73
1:M:150:LEU:CD2	1:N:290:LYS:HG2	2.12	0.73
1:N:277:THR:CG2	1:N:279:PRO:HD3	2.18	0.73
1:B:277:THR:CG2	1:B:279:PRO:HD3	2.18	0.72
1:G:268:VAL:HG12	1:H:286:ARG:HH12	1.53	0.72
1:H:162:GLU:HB3	1:H:252:LEU:HG	1.70	0.72
1:I:83:LEU:HD23	1:I:139:VAL:HG13	1.71	0.72
1:I:144:TYR:HD2	1:I:144:TYR:C	1.91	0.72
1:J:162:GLU:HB3	1:J:252:LEU:HG	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:293:TRP:HE3	1:L:297:TYR:CE1	2.06	0.72
1:M:268:VAL:HG12	1:N:286:ARG:HH12	1.53	0.72
1:N:127:PHE:O	1:N:131:PRO:CD	2.37	0.72
1:O:290:LYS:CE	1:Q:150:LEU:HD21	2.19	0.72
1:F:144:TYR:OH	1:F:146:ALA:HB2	1.90	0.72
1:H:125:ALA:HB3	1:H:223:LYS:HD3	1.64	0.72
1:H:229:VAL:HG12	1:H:235:HIS:HE1	1.52	0.72
1:I:144:TYR:C	1:I:144:TYR:CD2	2.61	0.72
1:L:150:LEU:HD21	1:M:290:LYS:CE	2.19	0.72
1:M:125:ALA:HB3	1:M:223:LYS:HD3	1.64	0.72
1:N:158:LEU:HD21	1:N:185:ILE:HD13	1.71	0.72
1:O:290:LYS:HG2	1:Q:150:LEU:CD2	2.12	0.72
1:P:127:PHE:O	1:P:131:PRO:CD	2.37	0.72
1:H:277:THR:CG2	1:H:279:PRO:HD3	2.18	0.72
1:K:83:LEU:HD23	1:K:139:VAL:HG13	1.71	0.72
1:L:158:LEU:HD21	1:L:185:ILE:HD13	1.71	0.72
1:L:237:LEU:HD21	1:L:246:ILE:HD13	1.70	0.72
1:L:277:THR:CG2	1:L:279:PRO:HD3	2.18	0.72
1:M:162:GLU:HB3	1:M:252:LEU:HG	1.70	0.72
1:O:237:LEU:HD21	1:O:246:ILE:HD13	1.70	0.72
1:O:268:VAL:HG12	1:P:286:ARG:HH12	1.53	0.72
1:O:276:THR:HA	1:P:285:MET:HE1	0.73	0.72
1:Q:125:ALA:CB	1:Q:223:LYS:CD	2.53	0.72
1:Q:237:LEU:HD21	1:Q:246:ILE:HD13	1.70	0.72
1:J:83:LEU:HD23	1:J:139:VAL:HG13	1.71	0.72
1:J:205:ILE:CD1	1:K:104:GLN:CD	2.48	0.72
1:L:285:MET:HE1	1:N:276:THR:C	2.09	0.72
1:M:237:LEU:HD21	1:M:246:ILE:HD13	1.70	0.72
1:N:125:ALA:HB3	1:N:223:LYS:HD3	1.64	0.72
1:Q:144:TYR:HE2	1:Q:146:ALA:CA	2.02	0.72
1:Q:168:MET:HE3	1:Q:175:TYR:CD2	2.24	0.72
1:Q:168:MET:HE1	1:Q:175:TYR:CE1	2.16	0.72
1:B:144:TYR:HD2	1:B:144:TYR:C	1.92	0.72
1:I:162:GLU:O	1:I:252:LEU:HD23	1.85	0.72
1:N:162:GLU:HB3	1:N:252:LEU:HG	1.70	0.72
1:O:124:ILE:HD13	1:O:152:MET:CG	2.17	0.72
1:O:286:ARG:HH12	1:Q:268:VAL:HG12	1.53	0.72
1:P:158:LEU:HD21	1:P:185:ILE:HD13	1.71	0.72
1:H:124:ILE:HD13	1:H:152:MET:CG	2.17	0.72
1:J:126:SER:CA	1:J:223:LYS:HZ1	1.97	0.72
1:L:252:LEU:CG	1:L:253:GLY:H	1.83	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:127:PHE:O	1:B:131:PRO:CD	2.37	0.72
1:I:288:ASN:CG	1:K:150:LEU:HD12	2.08	0.72
1:N:293:TRP:HE3	1:N:297:TYR:CE1	2.06	0.72
1:Q:142:MET:HE2	1:Q:152:MET:HE1	1.63	0.72
1:G:191:CYS:CB	1:G:244:CYS:HG	2.00	0.72
1:H:144:TYR:CE2	1:H:146:ALA:CB	2.67	0.72
1:J:124:ILE:HD13	1:J:152:MET:CG	2.17	0.72
1:J:127:PHE:O	1:J:131:PRO:CD	2.37	0.72
1:L:290:LYS:CE	1:N:150:LEU:HD21	2.19	0.72
1:P:124:ILE:HD13	1:P:152:MET:CG	2.17	0.72
1:B:144:TYR:CE2	1:B:146:ALA:CB	2.69	0.72
1:F:104:GLN:CD	1:H:205:ILE:CD1	2.47	0.72
1:F:127:PHE:O	1:F:131:PRO:CD	2.37	0.72
1:I:158:LEU:HD21	1:I:185:ILE:HD13	1.71	0.72
1:I:268:VAL:HG12	1:J:286:ARG:HH12	1.53	0.72
1:K:125:ALA:HB3	1:K:223:LYS:HD3	1.64	0.72
1:Q:144:TYR:C	1:Q:144:TYR:CD2	2.63	0.72
1:G:127:PHE:O	1:G:131:PRO:CD	2.37	0.71
1:H:83:LEU:HD23	1:H:139:VAL:HG13	1.71	0.71
1:I:229:VAL:HG12	1:I:235:HIS:HE1	1.52	0.71
1:K:144:TYR:CE2	1:K:146:ALA:CB	2.71	0.71
1:N:191:CYS:HG	1:N:244:CYS:CB	2.02	0.71
1:B:83:LEU:HD23	1:B:139:VAL:HG13	1.71	0.71
1:B:162:GLU:O	1:B:252:LEU:HD23	1.85	0.71
1:F:277:THR:CG2	1:F:279:PRO:HD3	2.18	0.71
1:H:158:LEU:HD21	1:H:185:ILE:HD13	1.71	0.71
1:I:144:TYR:HE2	1:I:146:ALA:CA	2.03	0.71
1:M:83:LEU:HD23	1:M:139:VAL:HG13	1.71	0.71
1:P:162:GLU:O	1:P:252:LEU:HD23	1.85	0.71
1:F:229:VAL:HG12	1:F:235:HIS:HE1	1.52	0.71
1:G:78:THR:HG22	1:G:78:THR:O	1.90	0.71
1:J:144:TYR:CE2	1:J:146:ALA:CB	2.68	0.71
1:J:268:VAL:HG12	1:K:286:ARG:HH12	1.53	0.71
1:L:162:GLU:HB3	1:L:252:LEU:HG	1.70	0.71
1:G:124:ILE:HD13	1:G:152:MET:CG	2.17	0.71
1:G:142:MET:HE2	1:G:152:MET:HE1	1.60	0.71
1:I:286:ARG:HH12	1:K:268:VAL:HG12	1.53	0.71
1:K:168:MET:HE2	1:K:175:TYR:CD2	2.24	0.71
1:L:205:ILE:CD1	1:M:104:GLN:CD	2.47	0.71
1:M:142:MET:HE2	1:M:152:MET:HE1	1.61	0.71
1:O:168:MET:HE2	1:O:175:TYR:CD2	2.25	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:229:VAL:HG12	1:P:235:HIS:HE1	1.52	0.71
1:P:246:ILE:HG23	1:P:246:ILE:O	1.91	0.71
1:I:144:TYR:HD2	1:I:145:ASP:N	1.88	0.71
1:I:290:LYS:CE	1:K:150:LEU:HD21	2.19	0.71
1:L:246:ILE:O	1:L:246:ILE:HG23	1.91	0.71
1:M:150:LEU:HD21	1:N:290:LYS:CE	2.19	0.71
1:P:268:VAL:HG12	1:Q:286:ARG:HH12	1.53	0.71
1:K:144:TYR:HD2	1:K:145:ASP:N	1.88	0.71
1:N:168:MET:HE2	1:N:175:TYR:CD2	2.26	0.71
1:O:144:TYR:HE2	1:O:146:ALA:CA	2.04	0.71
1:Q:246:ILE:O	1:Q:246:ILE:HG23	1.91	0.71
1:F:150:LEU:HD21	1:G:290:LYS:CE	2.19	0.71
1:H:246:ILE:HG23	1:H:246:ILE:O	1.91	0.71
1:H:252:LEU:N	1:H:252:LEU:HD23	2.06	0.71
1:J:252:LEU:N	1:J:252:LEU:HD23	2.06	0.71
1:K:144:TYR:HE2	1:K:146:ALA:CA	2.03	0.71
1:K:252:LEU:N	1:K:252:LEU:HD23	2.06	0.71
1:L:168:MET:HE2	1:L:175:TYR:CD2	2.26	0.71
1:M:252:LEU:N	1:M:252:LEU:HD23	2.06	0.71
1:M:266:SER:HA	1:M:286:ARG:NH2	2.06	0.71
1:O:252:LEU:N	1:O:252:LEU:HD23	2.06	0.71
1:F:237:LEU:HD21	1:F:246:ILE:HD13	1.70	0.71
1:G:144:TYR:OH	1:G:146:ALA:HB2	1.91	0.71
1:I:285:MET:HE1	1:K:276:THR:HA	0.71	0.71
1:G:144:TYR:C	1:G:144:TYR:CD2	2.64	0.71
1:N:83:LEU:HD23	1:N:139:VAL:HG13	1.71	0.71
1:P:266:SER:HA	1:P:286:ARG:NH2	2.06	0.71
1:I:159:ILE:HG22	1:I:258:VAL:CG2	1.98	0.71
1:J:73:GLU:HG2	1:J:73:GLU:O	1.91	0.71
1:L:266:SER:HA	1:L:286:ARG:NH2	2.06	0.71
1:N:246:ILE:HG23	1:N:246:ILE:O	1.91	0.71
1:N:266:SER:HA	1:N:286:ARG:NH2	2.06	0.71
1:Q:252:LEU:CG	1:Q:253:GLY:H	1.83	0.71
1:F:125:ALA:CB	1:F:223:LYS:CD	2.53	0.70
1:H:64:ASP:C	1:H:65:THR:CG2	2.51	0.70
1:I:246:ILE:O	1:I:246:ILE:HG23	1.91	0.70
1:J:246:ILE:HG23	1:J:246:ILE:O	1.91	0.70
1:L:150:LEU:HD12	1:M:288:ASN:CG	2.08	0.70
1:F:83:LEU:HD23	1:F:139:VAL:HG13	1.71	0.70
1:G:83:LEU:HD23	1:G:139:VAL:HG13	1.71	0.70
1:L:252:LEU:N	1:L:252:LEU:HD23	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:252:LEU:N	1:P:252:LEU:HD23	2.06	0.70
1:B:123:ASP:OD1	1:B:126:SER:HB3	1.92	0.70
1:H:266:SER:HA	1:H:286:ARG:NH2	2.06	0.70
1:J:266:SER:HA	1:J:286:ARG:NH2	2.06	0.70
1:M:168:MET:HE2	1:M:175:TYR:CD2	2.26	0.70
1:O:144:TYR:CE2	1:O:146:ALA:N	2.60	0.70
1:Q:144:TYR:HD2	1:Q:145:ASP:N	1.88	0.70
1:Q:162:GLU:O	1:Q:252:LEU:HD23	1.85	0.70
1:Q:252:LEU:N	1:Q:252:LEU:HD23	2.06	0.70
1:Q:266:SER:HA	1:Q:286:ARG:NH2	2.06	0.70
1:G:144:TYR:C	1:G:144:TYR:HD2	1.94	0.70
1:L:59:ILE:HG22	1:L:60:THR:O	1.92	0.70
1:O:144:TYR:HE2	1:O:146:ALA:N	1.88	0.70
1:P:123:ASP:OD1	1:P:126:SER:HB3	1.92	0.70
1:P:144:TYR:OH	1:P:146:ALA:HB2	1.90	0.70
1:I:144:TYR:OH	1:I:146:ALA:HB2	1.90	0.70
1:I:266:SER:HA	1:I:286:ARG:NH2	2.06	0.70
1:O:246:ILE:HG23	1:O:246:ILE:O	1.91	0.70
1:F:288:ASN:CG	1:H:150:LEU:HD13	2.12	0.70
1:I:205:ILE:CG1	1:J:104:GLN:OE1	2.40	0.70
1:I:252:LEU:N	1:I:252:LEU:HD23	2.06	0.70
1:K:266:SER:HA	1:K:286:ARG:NH2	2.06	0.70
1:L:150:LEU:CD2	1:M:290:LYS:HG2	2.12	0.70
1:M:59:ILE:HG22	1:M:60:THR:O	1.92	0.70
1:M:168:MET:HE3	1:M:175:TYR:CE1	2.22	0.70
1:N:124:ILE:HD13	1:N:152:MET:CG	2.17	0.70
1:O:251:LYS:CG	1:O:252:LEU:N	2.29	0.70
1:O:285:MET:HE1	1:Q:276:THR:C	2.11	0.70
1:B:252:LEU:N	1:B:252:LEU:HD23	2.06	0.70
1:F:59:ILE:HG22	1:F:60:THR:O	1.92	0.70
1:F:266:SER:HA	1:F:286:ARG:NH2	2.06	0.70
1:G:252:LEU:N	1:G:252:LEU:HD23	2.06	0.70
1:N:123:ASP:OD1	1:N:126:SER:HB3	1.92	0.70
1:B:59:ILE:HG22	1:B:60:THR:O	1.92	0.70
1:B:144:TYR:OH	1:B:146:ALA:HB2	1.92	0.70
1:G:266:SER:HA	1:G:286:ARG:NH2	2.06	0.70
1:H:123:ASP:OD1	1:H:126:SER:HB3	1.92	0.70
1:M:205:ILE:CG1	1:N:104:GLN:OE1	2.40	0.70
1:N:252:LEU:N	1:N:252:LEU:HD23	2.06	0.70
1:O:59:ILE:HG22	1:O:60:THR:O	1.92	0.70
1:O:126:SER:CA	1:O:223:LYS:HZ1	2.01	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:229:VAL:HG12	1:O:235:HIS:HE1	1.52	0.70
1:P:205:ILE:CD1	1:Q:104:GLN:CD	2.47	0.70
1:Q:124:ILE:HD13	1:Q:152:MET:CG	2.17	0.70
1:F:246:ILE:HG23	1:F:246:ILE:O	1.91	0.70
1:G:123:ASP:OD1	1:G:126:SER:HB3	1.92	0.70
1:H:168:MET:HE2	1:H:175:TYR:CD2	2.27	0.70
1:J:167:PRO:O	1:L:117:TYR:CZ	2.44	0.70
1:K:144:TYR:CZ	1:K:146:ALA:HB2	2.27	0.70
1:K:234:ASN:O	1:K:235:HIS:HD2	1.75	0.70
1:F:123:ASP:OD1	1:F:126:SER:HB3	1.92	0.70
1:G:150:LEU:HD13	1:H:288:ASN:CG	2.12	0.70
1:H:59:ILE:HG22	1:H:60:THR:O	1.92	0.70
1:J:123:ASP:OD1	1:J:126:SER:HB3	1.92	0.70
1:J:168:MET:HE2	1:J:175:TYR:CD2	2.26	0.70
1:L:205:ILE:CG1	1:M:104:GLN:OE1	2.40	0.70
1:N:234:ASN:O	1:N:235:HIS:HD2	1.75	0.70
1:O:123:ASP:OD1	1:O:126:SER:HB3	1.92	0.70
1:O:266:SER:HA	1:O:286:ARG:NH2	2.06	0.70
1:B:246:ILE:HG23	1:B:246:ILE:O	1.91	0.69
1:F:252:LEU:N	1:F:252:LEU:HD23	2.06	0.69
1:I:108:THR:HG23	1:I:109:LYS:N	2.07	0.69
1:K:123:ASP:OD1	1:K:126:SER:HB3	1.92	0.69
1:L:125:ALA:HB3	1:L:223:LYS:HD3	1.65	0.69
1:O:108:THR:HG23	1:O:109:LYS:N	2.07	0.69
1:O:288:ASN:CG	1:Q:150:LEU:HD13	2.12	0.69
1:P:205:ILE:CG1	1:Q:104:GLN:OE1	2.40	0.69
1:G:59:ILE:HG22	1:G:60:THR:O	1.92	0.69
1:J:59:ILE:HG22	1:J:60:THR:O	1.92	0.69
1:J:108:THR:HG23	1:J:109:LYS:N	2.07	0.69
1:K:246:ILE:HG23	1:K:246:ILE:O	1.91	0.69
1:O:104:GLN:OE1	1:Q:205:ILE:CG1	2.40	0.69
1:O:191:CYS:CB	1:O:244:CYS:HG	2.02	0.69
1:P:59:ILE:HG22	1:P:60:THR:O	1.92	0.69
1:P:150:LEU:HD21	1:Q:290:LYS:CE	2.19	0.69
1:Q:158:LEU:HD21	1:Q:185:ILE:HD13	1.71	0.69
1:Q:229:VAL:HG12	1:Q:235:HIS:HE1	1.52	0.69
1:B:266:SER:HA	1:B:286:ARG:NH2	2.06	0.69
1:F:104:GLN:OE1	1:H:205:ILE:CG1	2.40	0.69
1:F:205:ILE:CG1	1:G:104:GLN:OE1	2.40	0.69
1:G:205:ILE:CG1	1:H:104:GLN:OE1	2.40	0.69
1:G:246:ILE:HG23	1:G:246:ILE:O	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:108:THR:HG23	1:M:109:LYS:N	2.07	0.69
1:M:246:ILE:HG23	1:M:246:ILE:O	1.91	0.69
1:I:59:ILE:HG22	1:I:60:THR:O	1.92	0.69
1:M:123:ASP:OD1	1:M:126:SER:HB3	1.92	0.69
1:O:144:TYR:CE2	1:O:146:ALA:CA	2.75	0.69
1:P:234:ASN:O	1:P:235:HIS:HD2	1.76	0.69
1:F:158:LEU:HD12	1:F:224:LEU:CD2	2.23	0.69
1:I:123:ASP:OD1	1:I:126:SER:HB3	1.92	0.69
1:J:144:TYR:HE2	1:J:146:ALA:CA	2.06	0.69
1:K:59:ILE:HG22	1:K:60:THR:O	1.92	0.69
1:L:123:ASP:OD1	1:L:126:SER:HB3	1.92	0.69
1:M:124:ILE:HD13	1:M:152:MET:CG	2.17	0.69
1:N:82:CYS:HG	1:N:135:CYS:HB3	1.55	0.69
1:N:252:LEU:CG	1:N:253:GLY:H	1.83	0.69
1:O:234:ASN:O	1:O:235:HIS:HD2	1.75	0.69
1:P:150:LEU:HD13	1:Q:288:ASN:CG	2.12	0.69
1:B:234:ASN:O	1:B:235:HIS:HD2	1.75	0.69
1:K:144:TYR:CE2	1:K:146:ALA:CA	2.75	0.69
1:N:125:ALA:CB	1:N:223:LYS:CD	2.53	0.69
1:P:144:TYR:HE2	1:P:146:ALA:CA	2.06	0.69
1:I:288:ASN:CG	1:K:150:LEU:HD13	2.12	0.69
1:J:234:ASN:O	1:J:235:HIS:HD2	1.75	0.69
1:L:144:TYR:OH	1:L:146:ALA:HB2	1.92	0.69
1:L:150:LEU:HD13	1:M:288:ASN:CG	2.12	0.69
1:O:150:LEU:HD13	1:P:288:ASN:CG	2.12	0.69
1:Q:59:ILE:HG22	1:Q:60:THR:O	1.92	0.69
1:B:229:VAL:HG12	1:B:235:HIS:HE1	1.52	0.69
1:F:205:ILE:CD1	1:G:104:GLN:CD	2.47	0.69
1:G:234:ASN:O	1:G:235:HIS:HD2	1.75	0.69
1:H:108:THR:HG23	1:H:109:LYS:N	2.07	0.69
1:I:144:TYR:HE2	1:I:146:ALA:N	1.91	0.69
1:I:234:ASN:O	1:I:235:HIS:HD2	1.75	0.69
1:K:158:LEU:HD12	1:K:224:LEU:CD2	2.23	0.69
1:L:104:GLN:OE1	1:N:205:ILE:CG1	2.40	0.69
1:L:108:THR:HG23	1:L:109:LYS:N	2.07	0.69
1:O:205:ILE:CG1	1:P:104:GLN:OE1	2.40	0.69
1:Q:126:SER:HA	1:Q:223:LYS:HZ2	1.57	0.69
1:Q:144:TYR:OH	1:Q:146:ALA:HB2	1.92	0.69
1:Q:234:ASN:O	1:Q:235:HIS:HD2	1.75	0.69
1:B:293:TRP:CE3	1:B:297:TYR:HE1	2.11	0.69
1:F:290:LYS:CE	1:H:150:LEU:HD21	2.19	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:104:GLN:OE1	1:K:205:ILE:CG1	2.40	0.69
1:I:252:LEU:CG	1:I:253:GLY:H	1.83	0.69
1:I:293:TRP:CE3	1:I:297:TYR:HE1	2.11	0.69
1:L:293:TRP:O	1:L:297:TYR:HD1	1.76	0.69
1:O:82:CYS:HG	1:O:135:CYS:HB3	1.57	0.69
1:Q:159:ILE:HG22	1:Q:258:VAL:CG2	1.98	0.69
1:F:251:LYS:C	1:F:252:LEU:CD2	2.61	0.69
1:I:144:TYR:CE2	1:I:146:ALA:CA	2.74	0.69
1:I:251:LYS:C	1:I:252:LEU:CD2	2.61	0.69
1:J:205:ILE:CG1	1:K:104:GLN:OE1	2.40	0.69
1:K:108:THR:HG23	1:K:109:LYS:N	2.07	0.69
1:K:144:TYR:HE2	1:K:146:ALA:N	1.91	0.69
1:M:150:LEU:HD13	1:N:288:ASN:CG	2.12	0.69
1:N:108:THR:HG23	1:N:109:LYS:N	2.07	0.69
1:O:293:TRP:O	1:O:297:TYR:HD1	1.76	0.69
1:P:125:ALA:CB	1:P:223:LYS:CD	2.53	0.69
1:P:159:ILE:HG22	1:P:258:VAL:CG2	1.98	0.69
1:B:158:LEU:HD12	1:B:224:LEU:CD2	2.23	0.68
1:B:293:TRP:O	1:B:297:TYR:HD1	1.76	0.68
1:G:252:LEU:CG	1:G:253:GLY:H	1.83	0.68
1:I:293:TRP:O	1:I:297:TYR:HD1	1.76	0.68
1:O:104:GLN:CD	1:Q:205:ILE:CD1	2.47	0.68
1:Q:293:TRP:O	1:Q:297:TYR:HD1	1.76	0.68
1:B:251:LYS:C	1:B:252:LEU:CD2	2.62	0.68
1:F:150:LEU:HD13	1:G:288:ASN:CG	2.12	0.68
1:G:144:TYR:HE2	1:G:146:ALA:CA	2.05	0.68
1:G:251:LYS:C	1:G:252:LEU:CD2	2.62	0.68
1:M:234:ASN:O	1:M:235:HIS:HD2	1.75	0.68
1:P:158:LEU:HD12	1:P:224:LEU:CD2	2.23	0.68
1:P:293:TRP:O	1:P:297:TYR:HD1	1.76	0.68
1:Q:293:TRP:CE3	1:Q:297:TYR:HE1	2.11	0.68
1:G:263:VAL:HG12	1:G:289:TRP:HB2	1.76	0.68
1:H:234:ASN:O	1:H:235:HIS:HD2	1.75	0.68
1:I:150:LEU:HD13	1:J:288:ASN:CG	2.12	0.68
1:J:150:LEU:HD13	1:K:288:ASN:CG	2.12	0.68
1:L:178:THR:H	1:L:182:ASN:HD22	1.41	0.68
1:L:251:LYS:C	1:L:252:LEU:CD2	2.62	0.68
1:L:288:ASN:CG	1:N:150:LEU:HD12	2.08	0.68
1:P:178:THR:H	1:P:182:ASN:HD22	1.41	0.68
1:B:144:TYR:HE2	1:B:146:ALA:N	1.91	0.68
1:L:127:PHE:O	1:L:131:PRO:HD3	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:170:ILE:HD13	1:L:239:VAL:HG23	1.76	0.68
1:P:174:TYR:CE1	1:P:198:LEU:HD13	2.29	0.68
1:P:251:LYS:C	1:P:252:LEU:CD2	2.62	0.68
1:Q:144:TYR:CE2	1:Q:146:ALA:CA	2.76	0.68
1:B:127:PHE:O	1:B:131:PRO:HD3	1.94	0.68
1:F:144:TYR:HE2	1:F:146:ALA:N	1.92	0.68
1:G:144:TYR:CE2	1:G:146:ALA:CA	2.77	0.68
1:I:104:GLN:CD	1:K:205:ILE:CD1	2.47	0.68
1:I:150:LEU:HD21	1:J:290:LYS:CE	2.19	0.68
1:I:170:ILE:HD13	1:I:239:VAL:HG23	1.76	0.68
1:J:178:THR:H	1:J:182:ASN:HD22	1.42	0.68
1:K:127:PHE:O	1:K:131:PRO:HD3	1.94	0.68
1:K:293:TRP:CE3	1:K:297:TYR:HE1	2.11	0.68
1:N:59:ILE:HG22	1:N:60:THR:O	1.92	0.68
1:N:178:THR:H	1:N:182:ASN:HD22	1.42	0.68
1:O:69:ASN:O	1:O:70:SER:HB2	1.93	0.68
1:O:178:THR:H	1:O:182:ASN:HD22	1.41	0.68
1:O:255:ARG:HD2	1:O:257:ASN:HD22	1.59	0.68
1:O:263:VAL:HG12	1:O:289:TRP:HB2	1.76	0.68
1:Q:108:THR:HG23	1:Q:109:LYS:N	2.07	0.68
1:G:108:THR:HG23	1:G:109:LYS:N	2.07	0.68
1:H:144:TYR:HE2	1:H:146:ALA:CA	2.07	0.68
1:J:174:TYR:CE1	1:J:198:LEU:HD13	2.29	0.68
1:K:191:CYS:CB	1:K:244:CYS:HG	2.04	0.68
1:K:263:VAL:HG12	1:K:289:TRP:HB2	1.76	0.68
1:L:174:TYR:CE1	1:L:198:LEU:HD13	2.29	0.68
1:L:234:ASN:O	1:L:235:HIS:HD2	1.75	0.68
1:M:127:PHE:O	1:M:131:PRO:HD3	1.94	0.68
1:N:144:TYR:HE2	1:N:146:ALA:CA	2.06	0.68
1:Q:75:THR:HG23	1:Q:79:SER:OG	1.93	0.68
1:B:255:ARG:HD2	1:B:257:ASN:HD22	1.59	0.68
1:F:127:PHE:O	1:F:131:PRO:HD3	1.94	0.68
1:F:162:GLU:HB3	1:F:253:GLY:C	2.14	0.68
1:F:234:ASN:O	1:F:235:HIS:HD2	1.75	0.68
1:K:293:TRP:O	1:K:297:TYR:HD1	1.77	0.68
1:L:290:LYS:HA	1:N:150:LEU:CD2	2.24	0.68
1:O:251:LYS:C	1:O:252:LEU:CD2	2.61	0.68
1:P:127:PHE:O	1:P:131:PRO:HD3	1.94	0.68
1:Q:123:ASP:OD1	1:Q:126:SER:HB3	1.92	0.68
1:F:108:THR:HG23	1:F:109:LYS:N	2.07	0.68
1:L:288:ASN:CG	1:N:150:LEU:HD13	2.12	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:170:ILE:HD13	1:B:239:VAL:HG23	1.76	0.68
1:F:150:LEU:CD2	1:G:290:LYS:HA	2.24	0.68
1:G:127:PHE:O	1:G:131:PRO:HD3	1.94	0.68
1:G:162:GLU:HB3	1:G:253:GLY:C	2.14	0.68
1:G:293:TRP:O	1:G:297:TYR:HD1	1.76	0.68
1:I:174:TYR:CE1	1:I:198:LEU:HD13	2.29	0.68
1:J:263:VAL:HG12	1:J:289:TRP:HB2	1.76	0.68
1:M:144:TYR:HD2	1:M:145:ASP:N	1.91	0.68
1:N:127:PHE:O	1:N:131:PRO:HD3	1.94	0.68
1:N:144:TYR:OH	1:N:146:ALA:HB2	1.94	0.68
1:O:125:ALA:CB	1:O:223:LYS:CD	2.53	0.68
1:O:170:ILE:HD13	1:O:239:VAL:HG23	1.76	0.68
1:O:293:TRP:CE3	1:O:297:TYR:HE1	2.11	0.68
1:Q:251:LYS:C	1:Q:252:LEU:CD2	2.62	0.68
1:B:108:THR:HG23	1:B:109:LYS:N	2.07	0.68
1:F:290:LYS:HA	1:H:150:LEU:CD2	2.24	0.68
1:H:127:PHE:O	1:H:131:PRO:HD3	1.94	0.68
1:H:170:ILE:HD13	1:H:239:VAL:HG23	1.76	0.68
1:H:251:LYS:C	1:H:252:LEU:CD2	2.62	0.68
1:I:178:THR:H	1:I:182:ASN:HD22	1.42	0.68
1:K:170:ILE:HD13	1:K:239:VAL:HG23	1.76	0.68
1:L:255:ARG:HD2	1:L:257:ASN:HD22	1.59	0.68
1:N:158:LEU:HD12	1:N:224:LEU:CD2	2.23	0.68
1:N:251:LYS:C	1:N:252:LEU:CD2	2.62	0.68
1:P:150:LEU:CD2	1:Q:290:LYS:HA	2.24	0.68
1:P:162:GLU:CB	1:P:253:GLY:C	2.62	0.68
1:B:178:THR:H	1:B:182:ASN:HD22	1.41	0.67
1:F:293:TRP:O	1:F:297:TYR:HD1	1.76	0.67
1:H:162:GLU:HB3	1:H:253:GLY:C	2.14	0.67
1:I:158:LEU:HD12	1:I:224:LEU:CD2	2.23	0.67
1:I:263:VAL:HG12	1:I:289:TRP:HB2	1.76	0.67
1:J:162:GLU:CB	1:J:253:GLY:C	2.62	0.67
1:K:174:TYR:CE1	1:K:198:LEU:HD13	2.29	0.67
1:L:229:VAL:HG12	1:L:235:HIS:HE1	1.52	0.67
1:M:158:LEU:HD12	1:M:224:LEU:CD2	2.23	0.67
1:M:174:TYR:CE1	1:M:198:LEU:HD13	2.29	0.67
1:M:178:THR:H	1:M:182:ASN:HD22	1.41	0.67
1:M:251:LYS:C	1:M:252:LEU:CD2	2.61	0.67
1:M:293:TRP:CE3	1:M:297:TYR:HE1	2.11	0.67
1:N:174:TYR:CE1	1:N:198:LEU:HD13	2.29	0.67
1:O:150:LEU:CD2	1:P:290:LYS:HA	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:108:THR:HG23	1:P:109:LYS:N	2.07	0.67
1:P:162:GLU:HB3	1:P:253:GLY:C	2.15	0.67
1:F:174:TYR:CE1	1:F:198:LEU:HD13	2.29	0.67
1:H:293:TRP:O	1:H:297:TYR:HD1	1.76	0.67
1:I:125:ALA:CB	1:I:223:LYS:CD	2.53	0.67
1:I:144:TYR:CE2	1:I:146:ALA:N	2.63	0.67
1:I:255:ARG:HD2	1:I:257:ASN:HD22	1.59	0.67
1:K:251:LYS:C	1:K:252:LEU:CD2	2.62	0.67
1:L:162:GLU:HB3	1:L:253:GLY:C	2.15	0.67
1:M:144:TYR:HE2	1:M:146:ALA:N	1.91	0.67
1:I:290:LYS:HA	1:K:150:LEU:CD2	2.24	0.67
1:M:87:THR:HG1	1:M:122:THR:HG22	1.56	0.67
1:M:263:VAL:HG12	1:M:289:TRP:HB2	1.76	0.67
1:N:162:GLU:HB3	1:N:253:GLY:C	2.14	0.67
1:Q:127:PHE:O	1:Q:131:PRO:HD3	1.94	0.67
1:Q:174:TYR:CE1	1:Q:198:LEU:HD13	2.29	0.67
1:G:170:ILE:HD13	1:G:239:VAL:HG23	1.76	0.67
1:I:162:GLU:CB	1:I:253:GLY:C	2.62	0.67
1:J:252:LEU:CG	1:J:253:GLY:H	1.83	0.67
1:K:178:THR:H	1:K:182:ASN:HD22	1.41	0.67
1:M:162:GLU:CB	1:M:253:GLY:C	2.62	0.67
1:N:293:TRP:CE3	1:N:297:TYR:HE1	2.11	0.67
1:P:64:ASP:C	1:P:65:THR:CG2	2.51	0.67
1:P:168:MET:HE2	1:P:175:TYR:CD2	2.29	0.67
1:G:158:LEU:HD12	1:G:224:LEU:CD2	2.23	0.67
1:G:178:THR:H	1:G:182:ASN:HD22	1.41	0.67
1:H:158:LEU:HD12	1:H:224:LEU:CD2	2.23	0.67
1:M:82:CYS:HG	1:M:135:CYS:HB3	1.55	0.67
1:N:293:TRP:O	1:N:297:TYR:HD1	1.76	0.67
1:P:144:TYR:CE2	1:P:146:ALA:CA	2.78	0.67
1:B:124:ILE:HD13	1:B:152:MET:CG	2.17	0.67
1:G:144:TYR:HD2	1:G:145:ASP:N	1.93	0.67
1:G:162:GLU:CB	1:G:253:GLY:C	2.62	0.67
1:H:277:THR:CG2	1:H:278:ALA:N	2.58	0.67
1:I:126:SER:CA	1:I:223:LYS:NZ	2.55	0.67
1:J:125:ALA:CB	1:J:223:LYS:CD	2.53	0.67
1:J:251:LYS:C	1:J:252:LEU:CD2	2.62	0.67
1:K:162:GLU:CB	1:K:253:GLY:C	2.62	0.67
1:M:293:TRP:O	1:M:297:TYR:HD1	1.76	0.67
1:N:170:ILE:HD13	1:N:239:VAL:HG23	1.76	0.67
1:Q:263:VAL:HG12	1:Q:289:TRP:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:GLU:CB	1:B:253:GLY:C	2.62	0.67
1:B:162:GLU:HB3	1:B:253:GLY:C	2.15	0.67
1:F:162:GLU:CB	1:F:253:GLY:C	2.62	0.67
1:F:255:ARG:HD2	1:F:257:ASN:HD22	1.59	0.67
1:J:150:LEU:CD2	1:K:290:LYS:HA	2.24	0.67
1:L:144:TYR:HE2	1:L:146:ALA:CA	2.06	0.67
1:L:162:GLU:CB	1:L:253:GLY:C	2.62	0.67
1:M:170:ILE:HD13	1:M:239:VAL:HG23	1.76	0.67
1:O:162:GLU:CB	1:O:253:GLY:C	2.62	0.67
1:F:168:MET:HE2	1:F:175:TYR:CD2	2.30	0.67
1:F:263:VAL:HG12	1:F:289:TRP:HB2	1.76	0.67
1:G:150:LEU:CD2	1:H:290:LYS:HA	2.24	0.67
1:H:162:GLU:CB	1:H:253:GLY:C	2.62	0.67
1:J:158:LEU:HD12	1:J:224:LEU:CD2	2.23	0.67
1:J:293:TRP:O	1:J:297:TYR:HD1	1.76	0.67
1:K:162:GLU:HB3	1:K:253:GLY:C	2.15	0.67
1:K:229:VAL:HG12	1:K:235:HIS:HE1	1.52	0.67
1:L:205:ILE:HD11	1:M:104:GLN:CG	2.25	0.67
1:M:126:SER:HA	1:M:223:LYS:HZ2	1.59	0.67
1:N:167:PRO:HG3	1:P:134:TYR:CZ	2.30	0.67
1:P:263:VAL:HG12	1:P:289:TRP:HB2	1.76	0.67
1:B:263:VAL:HG12	1:B:289:TRP:HB2	1.76	0.67
1:I:150:LEU:CD2	1:J:290:LYS:HA	2.24	0.67
1:J:170:ILE:HD13	1:J:239:VAL:HG23	1.76	0.67
1:L:104:GLN:CG	1:N:205:ILE:HD11	2.25	0.67
1:L:158:LEU:HD12	1:L:224:LEU:CD2	2.23	0.67
1:M:144:TYR:CE2	1:M:146:ALA:N	2.63	0.67
1:M:205:ILE:HD11	1:N:104:GLN:CG	2.25	0.67
1:M:257:ASN:O	1:M:258:VAL:C	2.33	0.67
1:N:162:GLU:CB	1:N:253:GLY:C	2.62	0.67
1:Q:255:ARG:HD2	1:Q:257:ASN:HD22	1.59	0.67
1:H:178:THR:H	1:H:182:ASN:HD22	1.41	0.67
1:I:104:GLN:CG	1:K:205:ILE:HD11	2.25	0.67
1:J:144:TYR:CE2	1:J:146:ALA:CA	2.78	0.67
1:J:205:ILE:HD11	1:K:104:GLN:CG	2.25	0.67
1:J:293:TRP:CE3	1:J:297:TYR:HE1	2.11	0.67
1:K:255:ARG:HD2	1:K:257:ASN:HD22	1.59	0.67
1:P:162:GLU:C	1:P:252:LEU:HD21	2.13	0.67
1:Q:162:GLU:HB3	1:Q:253:GLY:C	2.15	0.67
1:G:255:ARG:HD2	1:G:257:ASN:HD22	1.59	0.66
1:H:144:TYR:OH	1:H:146:ALA:HB2	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:127:PHE:O	1:I:131:PRO:HD3	1.94	0.66
1:I:189:SER:HB2	1:I:243:THR:HB	1.78	0.66
1:J:127:PHE:O	1:J:131:PRO:HD3	1.94	0.66
1:K:144:TYR:CE2	1:K:146:ALA:N	2.63	0.66
1:K:257:ASN:O	1:K:258:VAL:C	2.33	0.66
1:L:150:LEU:CD2	1:M:290:LYS:HA	2.24	0.66
1:L:162:GLU:C	1:L:252:LEU:HD21	2.13	0.66
1:L:257:ASN:O	1:L:258:VAL:C	2.33	0.66
1:M:229:VAL:HG12	1:M:235:HIS:HE1	1.52	0.66
1:N:229:VAL:HG12	1:N:235:HIS:HE1	1.52	0.66
1:O:189:SER:HB2	1:O:243:THR:HB	1.78	0.66
1:O:290:LYS:HA	1:Q:150:LEU:CD2	2.24	0.66
1:Q:126:SER:CA	1:Q:223:LYS:NZ	2.55	0.66
1:B:277:THR:CG2	1:B:278:ALA:N	2.58	0.66
1:F:277:THR:CG2	1:F:278:ALA:N	2.58	0.66
1:J:126:SER:CA	1:J:223:LYS:NZ	2.55	0.66
1:L:144:TYR:CE2	1:L:146:ALA:CB	2.69	0.66
1:L:144:TYR:HE2	1:L:146:ALA:N	1.92	0.66
1:N:263:VAL:HG12	1:N:289:TRP:HB2	1.76	0.66
1:O:104:GLN:CG	1:Q:205:ILE:HD11	2.25	0.66
1:P:170:ILE:HD13	1:P:239:VAL:HG23	1.76	0.66
1:Q:162:GLU:CB	1:Q:253:GLY:C	2.62	0.66
1:B:174:TYR:CE1	1:B:198:LEU:HD13	2.29	0.66
1:F:205:ILE:HD11	1:G:104:GLN:CG	2.25	0.66
1:G:189:SER:HB2	1:G:243:THR:HB	1.78	0.66
1:G:257:ASN:O	1:G:258:VAL:C	2.33	0.66
1:H:293:TRP:CE3	1:H:297:TYR:HE1	2.11	0.66
1:I:162:GLU:HB3	1:I:253:GLY:C	2.15	0.66
1:M:162:GLU:HB3	1:M:253:GLY:C	2.15	0.66
1:M:255:ARG:HD2	1:M:257:ASN:HD22	1.59	0.66
1:O:158:LEU:HD12	1:O:224:LEU:CD2	2.23	0.66
1:O:174:TYR:CE1	1:O:198:LEU:HD13	2.29	0.66
1:P:293:TRP:CE3	1:P:297:TYR:HE1	2.11	0.66
1:B:144:TYR:HE2	1:B:146:ALA:CA	2.08	0.66
1:F:293:TRP:CE3	1:F:297:TYR:HE1	2.11	0.66
1:J:162:GLU:HB3	1:J:253:GLY:C	2.15	0.66
1:N:255:ARG:HD2	1:N:257:ASN:HD22	1.59	0.66
1:P:205:ILE:HD11	1:Q:104:GLN:CG	2.25	0.66
1:B:144:TYR:CE2	1:B:146:ALA:N	2.63	0.66
1:F:104:GLN:CG	1:H:205:ILE:HD11	2.25	0.66
1:F:162:GLU:C	1:F:252:LEU:HD21	2.13	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:144:TYR:HE2	1:J:146:ALA:N	1.94	0.66
1:K:162:GLU:O	1:K:252:LEU:HD23	1.85	0.66
1:L:263:VAL:HG12	1:L:289:TRP:HB2	1.76	0.66
1:M:144:TYR:CE2	1:M:146:ALA:CA	2.79	0.66
1:N:126:SER:CA	1:N:223:LYS:NZ	2.55	0.66
1:N:144:TYR:CE2	1:N:146:ALA:CA	2.78	0.66
1:O:127:PHE:O	1:O:131:PRO:HD3	1.94	0.66
1:P:277:THR:CG2	1:P:278:ALA:N	2.58	0.66
1:Q:257:ASN:O	1:Q:258:VAL:C	2.33	0.66
1:H:144:TYR:CE2	1:H:146:ALA:CA	2.79	0.66
1:I:162:GLU:C	1:I:252:LEU:HD21	2.13	0.66
1:I:277:THR:CG2	1:I:278:ALA:N	2.58	0.66
1:K:162:GLU:C	1:K:252:LEU:HD21	2.13	0.66
1:L:144:TYR:CE2	1:L:146:ALA:N	2.64	0.66
1:M:144:TYR:HE2	1:M:146:ALA:CA	2.06	0.66
1:P:144:TYR:HE2	1:P:146:ALA:N	1.94	0.66
1:Q:170:ILE:HD13	1:Q:239:VAL:HG23	1.76	0.66
1:Q:189:SER:HB2	1:Q:243:THR:HB	1.78	0.66
1:F:170:ILE:HD13	1:F:239:VAL:HG23	1.76	0.66
1:F:178:THR:H	1:F:182:ASN:HD22	1.41	0.66
1:H:255:ARG:HD2	1:H:257:ASN:HD22	1.59	0.66
1:I:257:ASN:O	1:I:258:VAL:C	2.33	0.66
1:J:255:ARG:HD2	1:J:257:ASN:HD22	1.59	0.66
1:K:277:THR:CG2	1:K:278:ALA:N	2.58	0.66
1:L:285:MET:HE3	1:N:276:THR:CA	1.85	0.66
1:O:205:ILE:HD11	1:P:104:GLN:CG	2.25	0.66
1:Q:158:LEU:HD12	1:Q:224:LEU:CD2	2.23	0.66
1:H:189:SER:HB2	1:H:243:THR:HB	1.77	0.66
1:L:64:ASP:C	1:L:65:THR:CG2	2.51	0.66
1:M:144:TYR:OH	1:M:146:ALA:HB2	1.95	0.66
1:P:189:SER:HB2	1:P:243:THR:HB	1.78	0.66
1:F:189:SER:HB2	1:F:243:THR:HB	1.78	0.66
1:I:205:ILE:HD11	1:J:104:GLN:CG	2.25	0.66
1:N:144:TYR:HD2	1:N:144:TYR:C	2.00	0.66
1:F:257:ASN:O	1:F:258:VAL:C	2.33	0.66
1:I:205:ILE:CD1	1:J:104:GLN:CD	2.47	0.66
1:K:126:SER:CA	1:K:223:LYS:HZ1	2.00	0.66
1:N:162:GLU:C	1:N:252:LEU:HD21	2.13	0.66
1:O:126:SER:CA	1:O:223:LYS:NZ	2.55	0.66
1:O:277:THR:CG2	1:O:278:ALA:N	2.58	0.66
1:Q:178:THR:H	1:Q:182:ASN:HD22	1.41	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:144:TYR:HE2	1:F:146:ALA:CA	2.08	0.65
1:F:175:TYR:OH	1:F:237:LEU:HD22	1.96	0.65
1:H:126:SER:CA	1:H:223:LYS:NZ	2.55	0.65
1:L:293:TRP:CE3	1:L:297:TYR:HE1	2.11	0.65
1:M:150:LEU:CD2	1:N:290:LYS:HA	2.24	0.65
1:N:257:ASN:C	1:N:258:VAL:O	2.35	0.65
1:O:64:ASP:C	1:O:65:THR:CG2	2.51	0.65
1:O:162:GLU:O	1:O:252:LEU:CG	2.44	0.65
1:O:162:GLU:HB3	1:O:253:GLY:C	2.15	0.65
1:P:175:TYR:OH	1:P:237:LEU:HD22	1.96	0.65
1:P:255:ARG:HD2	1:P:257:ASN:HD22	1.59	0.65
1:Q:144:TYR:HE2	1:Q:146:ALA:N	1.94	0.65
1:Q:277:THR:CG2	1:Q:278:ALA:N	2.58	0.65
1:B:189:SER:HB2	1:B:243:THR:HB	1.78	0.65
1:F:144:TYR:CE2	1:F:146:ALA:CA	2.79	0.65
1:G:174:TYR:CE1	1:G:198:LEU:HD13	2.29	0.65
1:H:174:TYR:CE1	1:H:198:LEU:HD13	2.29	0.65
1:J:64:ASP:C	1:J:65:THR:CG2	2.51	0.65
1:J:82:CYS:CA	1:J:135:CYS:SG	2.85	0.65
1:J:175:TYR:OH	1:J:237:LEU:HD22	1.96	0.65
1:M:64:ASP:C	1:M:65:THR:CG2	2.51	0.65
1:N:277:THR:CG2	1:N:278:ALA:N	2.58	0.65
1:O:257:ASN:O	1:O:258:VAL:C	2.33	0.65
1:O:267:ASP:H	1:O:286:ARG:NH1	1.95	0.65
1:B:162:GLU:C	1:B:252:LEU:HD21	2.13	0.65
1:F:144:TYR:CE2	1:F:146:ALA:N	2.63	0.65
1:G:257:ASN:C	1:G:258:VAL:O	2.35	0.65
1:H:144:TYR:HE2	1:H:146:ALA:N	1.94	0.65
1:H:263:VAL:HG12	1:H:289:TRP:HB2	1.76	0.65
1:I:257:ASN:C	1:I:258:VAL:O	2.35	0.65
1:J:144:TYR:OH	1:J:146:ALA:HB2	1.95	0.65
1:K:162:GLU:O	1:K:252:LEU:CG	2.44	0.65
1:L:257:ASN:C	1:L:258:VAL:O	2.35	0.65
1:M:82:CYS:CA	1:M:135:CYS:SG	2.84	0.65
1:M:267:ASP:H	1:M:286:ARG:NH1	1.95	0.65
1:N:144:TYR:C	1:N:144:TYR:CD2	2.69	0.65
1:P:130:ASP:OD1	1:P:130:ASP:O	2.15	0.65
1:P:257:ASN:C	1:P:258:VAL:O	2.35	0.65
1:B:257:ASN:C	1:B:258:VAL:O	2.35	0.65
1:F:82:CYS:CA	1:F:135:CYS:SG	2.85	0.65
1:G:144:TYR:HE2	1:G:146:ALA:N	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:267:ASP:H	1:G:286:ARG:NH1	1.95	0.65
1:J:167:PRO:O	1:L:117:TYR:HE2	1.77	0.65
1:J:267:ASP:H	1:J:286:ARG:NH1	1.95	0.65
1:L:144:TYR:CE2	1:L:146:ALA:CA	2.78	0.65
1:M:175:TYR:OH	1:M:237:LEU:HD22	1.96	0.65
1:N:82:CYS:CA	1:N:135:CYS:SG	2.85	0.65
1:Q:175:TYR:OH	1:Q:237:LEU:HD22	1.96	0.65
1:B:144:TYR:CE2	1:B:146:ALA:CA	2.79	0.65
1:G:126:SER:CA	1:G:223:LYS:NZ	2.55	0.65
1:G:293:TRP:CE3	1:G:297:TYR:HE1	2.12	0.65
1:H:257:ASN:C	1:H:258:VAL:O	2.35	0.65
1:O:175:TYR:OH	1:O:237:LEU:HD22	1.96	0.65
1:P:255:ARG:HD2	1:P:257:ASN:ND2	2.12	0.65
1:F:267:ASP:H	1:F:286:ARG:NH1	1.95	0.65
1:G:162:GLU:O	1:G:252:LEU:CG	2.44	0.65
1:J:229:VAL:HG12	1:J:235:HIS:HE1	1.52	0.65
1:L:130:ASP:O	1:L:130:ASP:OD1	2.15	0.65
1:L:162:GLU:O	1:L:252:LEU:CG	2.44	0.65
1:L:189:SER:HB2	1:L:243:THR:HB	1.78	0.65
1:O:255:ARG:CD	1:O:257:ASN:HD22	2.10	0.65
1:Q:130:ASP:O	1:Q:130:ASP:OD1	2.15	0.65
1:G:82:CYS:CA	1:G:135:CYS:SG	2.85	0.65
1:G:255:ARG:CD	1:G:257:ASN:HD22	2.10	0.65
1:I:82:CYS:CA	1:I:135:CYS:SG	2.84	0.65
1:I:191:CYS:HG	1:I:244:CYS:CB	2.09	0.65
1:M:257:ASN:C	1:M:258:VAL:O	2.35	0.65
1:M:277:THR:CG2	1:M:278:ALA:N	2.58	0.65
1:O:162:GLU:O	1:O:252:LEU:HD23	1.85	0.65
1:G:205:ILE:HD11	1:H:104:GLN:CG	2.25	0.65
1:H:255:ARG:HD2	1:H:257:ASN:ND2	2.12	0.65
1:L:255:ARG:HD2	1:L:257:ASN:ND2	2.12	0.65
1:M:162:GLU:O	1:M:252:LEU:CG	2.44	0.65
1:I:130:ASP:O	1:I:130:ASP:OD1	2.15	0.65
1:I:267:ASP:H	1:I:286:ARG:NH1	1.95	0.65
1:M:126:SER:CA	1:M:223:LYS:NZ	2.55	0.65
1:N:144:TYR:HE2	1:N:146:ALA:N	1.95	0.65
1:N:162:GLU:O	1:N:252:LEU:CG	2.44	0.65
1:O:82:CYS:CA	1:O:135:CYS:SG	2.85	0.65
1:H:255:ARG:CD	1:H:257:ASN:HD22	2.10	0.65
1:K:82:CYS:CA	1:K:135:CYS:SG	2.85	0.65
1:M:78:THR:O	1:M:78:THR:HG22	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:255:ARG:HD2	1:M:257:ASN:ND2	2.12	0.65
1:P:267:ASP:H	1:P:286:ARG:NH1	1.95	0.65
1:B:158:LEU:CD1	1:B:224:LEU:HD21	2.27	0.64
1:F:255:ARG:CD	1:F:257:ASN:HD22	2.10	0.64
1:G:130:ASP:O	1:G:130:ASP:OD1	2.15	0.64
1:J:130:ASP:OD1	1:J:130:ASP:O	2.15	0.64
1:J:257:ASN:O	1:J:258:VAL:C	2.33	0.64
1:J:277:THR:CG2	1:J:278:ALA:N	2.58	0.64
1:K:189:SER:HB2	1:K:243:THR:HB	1.78	0.64
1:L:255:ARG:CD	1:L:257:ASN:HD22	2.10	0.64
1:L:277:THR:CG2	1:L:278:ALA:N	2.58	0.64
1:N:189:SER:HB2	1:N:243:THR:HB	1.77	0.64
1:N:267:ASP:H	1:N:286:ARG:NH1	1.95	0.64
1:O:257:ASN:C	1:O:258:VAL:O	2.35	0.64
1:B:162:GLU:O	1:B:252:LEU:CG	2.44	0.64
1:B:175:TYR:OH	1:B:237:LEU:HD22	1.96	0.64
1:J:255:ARG:CD	1:J:257:ASN:HD22	2.10	0.64
1:L:82:CYS:CA	1:L:135:CYS:SG	2.84	0.64
1:Q:255:ARG:HD2	1:Q:257:ASN:ND2	2.12	0.64
1:Q:255:ARG:CD	1:Q:257:ASN:HD22	2.10	0.64
1:F:255:ARG:HD2	1:F:257:ASN:ND2	2.12	0.64
1:G:255:ARG:HD2	1:G:257:ASN:ND2	2.12	0.64
1:H:125:ALA:CB	1:H:223:LYS:CD	2.53	0.64
1:H:162:GLU:O	1:H:252:LEU:CG	2.44	0.64
1:J:144:TYR:CE2	1:J:146:ALA:N	2.66	0.64
1:J:162:GLU:O	1:J:252:LEU:CG	2.44	0.64
1:K:144:TYR:OH	1:K:146:ALA:HB2	1.97	0.64
1:L:104:GLN:CD	1:N:205:ILE:CD1	2.47	0.64
1:L:125:ALA:CB	1:L:223:LYS:CD	2.53	0.64
1:B:126:SER:CA	1:B:223:LYS:NZ	2.55	0.64
1:K:175:TYR:OH	1:K:237:LEU:HD22	1.96	0.64
1:N:255:ARG:HD2	1:N:257:ASN:ND2	2.12	0.64
1:P:82:CYS:CA	1:P:135:CYS:SG	2.85	0.64
1:B:82:CYS:CA	1:B:135:CYS:SG	2.85	0.64
1:J:255:ARG:HD2	1:J:257:ASN:ND2	2.12	0.64
1:K:267:ASP:H	1:K:286:ARG:NH1	1.95	0.64
1:L:158:LEU:CD1	1:L:224:LEU:HD21	2.27	0.64
1:Q:82:CYS:CA	1:Q:135:CYS:SG	2.85	0.64
1:I:64:ASP:C	1:I:65:THR:CG2	2.51	0.64
1:J:189:SER:HB2	1:J:243:THR:HB	1.78	0.64
1:K:255:ARG:HD2	1:K:257:ASN:ND2	2.12	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:189:SER:HB2	1:M:243:THR:HB	1.78	0.64
1:P:144:TYR:CE2	1:P:146:ALA:N	2.66	0.64
1:F:162:GLU:O	1:F:252:LEU:CG	2.44	0.64
1:H:82:CYS:CA	1:H:135:CYS:SG	2.85	0.64
1:H:144:TYR:CE2	1:H:146:ALA:N	2.66	0.64
1:H:162:GLU:C	1:H:252:LEU:HD21	2.13	0.64
1:K:130:ASP:OD1	1:K:130:ASP:O	2.15	0.64
1:O:130:ASP:O	1:O:130:ASP:OD1	2.15	0.64
1:O:285:MET:HE3	1:Q:276:THR:CA	1.80	0.64
1:B:255:ARG:CD	1:B:257:ASN:HD22	2.10	0.64
1:B:311:SER:O	1:B:312:LYS:HB2	1.98	0.64
1:F:66:ALA:O	1:F:67:TYR:C	2.35	0.64
1:F:130:ASP:OD1	1:F:130:ASP:O	2.15	0.64
1:H:130:ASP:OD1	1:H:130:ASP:O	2.15	0.64
1:I:285:MET:HG3	1:I:286:ARG:N	2.13	0.64
1:K:126:SER:CA	1:K:223:LYS:NZ	2.55	0.64
1:L:175:TYR:OH	1:L:237:LEU:HD22	1.96	0.64
1:M:130:ASP:OD1	1:M:130:ASP:O	2.15	0.64
1:B:70:SER:O	1:B:71:THR:CB	2.45	0.64
1:B:267:ASP:H	1:B:286:ARG:NH1	1.95	0.64
1:F:311:SER:O	1:F:312:LYS:HB2	1.98	0.64
1:G:311:SER:O	1:G:312:LYS:HB2	1.98	0.64
1:H:251:LYS:O	1:H:252:LEU:CB	2.46	0.64
1:I:126:SER:CA	1:I:223:LYS:HZ1	1.98	0.64
1:L:267:ASP:H	1:L:286:ARG:NH1	1.95	0.64
1:L:285:MET:HG3	1:L:286:ARG:N	2.13	0.64
1:M:285:MET:HG3	1:M:286:ARG:N	2.13	0.64
1:N:255:ARG:CD	1:N:257:ASN:HD22	2.10	0.64
1:N:285:MET:HG3	1:N:286:ARG:N	2.13	0.64
1:H:175:TYR:OH	1:H:237:LEU:HD22	1.96	0.64
1:I:175:TYR:OH	1:I:237:LEU:HD22	1.96	0.64
1:I:255:ARG:CD	1:I:257:ASN:HD22	2.10	0.64
1:J:285:MET:HG3	1:J:286:ARG:N	2.13	0.64
1:K:255:ARG:CD	1:K:257:ASN:HD22	2.10	0.64
1:H:267:ASP:H	1:H:286:ARG:NH1	1.95	0.63
1:I:255:ARG:HD2	1:I:257:ASN:ND2	2.12	0.63
1:N:130:ASP:OD1	1:N:130:ASP:O	2.15	0.63
1:N:167:PRO:HG3	1:P:134:TYR:HH	1.56	0.63
1:P:255:ARG:CD	1:P:257:ASN:HD22	2.10	0.63
1:P:257:ASN:O	1:P:258:VAL:C	2.33	0.63
1:P:285:MET:HG3	1:P:286:ARG:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:255:ARG:HD2	1:B:257:ASN:ND2	2.12	0.63
1:J:150:LEU:HD12	1:K:288:ASN:CG	2.08	0.63
1:J:257:ASN:C	1:J:258:VAL:O	2.35	0.63
1:M:255:ARG:CD	1:M:257:ASN:HD22	2.10	0.63
1:O:255:ARG:HD2	1:O:257:ASN:ND2	2.12	0.63
1:F:159:ILE:HG22	1:F:258:VAL:CG2	1.98	0.63
1:K:311:SER:O	1:K:312:LYS:HB2	1.98	0.63
1:O:285:MET:HG3	1:O:286:ARG:N	2.13	0.63
1:Q:267:ASP:H	1:Q:286:ARG:NH1	1.95	0.63
1:G:144:TYR:CE2	1:G:146:ALA:N	2.66	0.63
1:G:277:THR:CG2	1:G:278:ALA:N	2.58	0.63
1:H:311:SER:O	1:H:312:LYS:HB2	1.98	0.63
1:I:170:ILE:HG12	1:I:175:TYR:OH	1.99	0.63
1:M:125:ALA:CB	1:M:223:LYS:CD	2.53	0.63
1:N:175:TYR:OH	1:N:237:LEU:HD22	1.96	0.63
1:O:162:GLU:C	1:O:252:LEU:HD21	2.13	0.63
1:Q:162:GLU:O	1:Q:252:LEU:CG	2.44	0.63
1:B:130:ASP:OD1	1:B:130:ASP:O	2.15	0.63
1:G:168:MET:HE3	1:G:175:TYR:CG	2.33	0.63
1:G:170:ILE:HG12	1:G:175:TYR:OH	1.99	0.63
1:G:285:MET:HG3	1:G:286:ARG:N	2.13	0.63
1:H:170:ILE:HG12	1:H:175:TYR:OH	1.99	0.63
1:I:162:GLU:O	1:I:252:LEU:CG	2.44	0.63
1:N:311:SER:O	1:N:312:LYS:HB2	1.98	0.63
1:Q:144:TYR:CE2	1:Q:146:ALA:N	2.66	0.63
1:H:144:TYR:C	1:H:144:TYR:CD2	2.72	0.63
1:K:128:SER:CB	1:K:155:LEU:CD1	2.63	0.63
1:K:285:MET:HG3	1:K:286:ARG:N	2.13	0.63
1:M:162:GLU:C	1:M:252:LEU:HD21	2.13	0.63
1:N:144:TYR:CE2	1:N:146:ALA:N	2.66	0.63
1:N:170:ILE:HG12	1:N:175:TYR:OH	1.99	0.63
1:O:268:VAL:CG1	1:P:267:ASP:O	2.46	0.63
1:P:76:PHE:HD2	1:P:110:GLY:O	1.82	0.63
1:P:162:GLU:O	1:P:252:LEU:CG	2.44	0.63
1:P:311:SER:O	1:P:312:LYS:HB2	1.98	0.63
1:B:168:MET:HE1	1:B:175:TYR:CZ	2.13	0.63
1:F:126:SER:HA	1:F:223:LYS:HZ2	1.63	0.63
1:F:144:TYR:C	1:F:144:TYR:CD2	2.72	0.63
1:G:76:PHE:HD2	1:G:110:GLY:O	1.82	0.63
1:J:170:ILE:HG12	1:J:175:TYR:OH	1.99	0.63
1:M:170:ILE:HG12	1:M:175:TYR:OH	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:285:MET:HG3	1:B:286:ARG:N	2.13	0.63
1:F:285:MET:HG3	1:F:286:ARG:N	2.13	0.63
1:K:170:ILE:HG12	1:K:175:TYR:OH	1.99	0.63
1:P:150:LEU:CD2	1:Q:290:LYS:CE	2.77	0.63
1:B:123:ASP:OD1	1:B:126:SER:CB	2.47	0.63
1:F:76:PHE:HD2	1:F:110:GLY:O	1.82	0.63
1:F:257:ASN:C	1:F:258:VAL:O	2.35	0.63
1:J:76:PHE:HD2	1:J:110:GLY:O	1.82	0.63
1:L:78:THR:HG22	1:L:78:THR:O	1.99	0.63
1:Q:76:PHE:HD2	1:Q:110:GLY:O	1.82	0.63
1:Q:125:ALA:C	1:Q:223:LYS:HZ2	2.01	0.63
1:Q:257:ASN:C	1:Q:258:VAL:O	2.35	0.63
1:K:76:PHE:HD2	1:K:110:GLY:O	1.82	0.62
1:L:76:PHE:HD2	1:L:110:GLY:O	1.82	0.62
1:M:311:SER:O	1:M:312:LYS:HB2	1.98	0.62
1:O:311:SER:O	1:O:312:LYS:HB2	1.98	0.62
1:G:150:LEU:CD2	1:H:290:LYS:CE	2.77	0.62
1:M:76:PHE:HD2	1:M:110:GLY:O	1.82	0.62
1:N:87:THR:HG1	1:N:122:THR:HG22	1.62	0.62
1:Q:311:SER:O	1:Q:312:LYS:HB2	1.98	0.62
1:B:76:PHE:HD2	1:B:110:GLY:O	1.82	0.62
1:I:123:ASP:OD1	1:I:126:SER:CB	2.47	0.62
1:B:127:PHE:O	1:B:131:PRO:CB	2.48	0.62
1:B:170:ILE:HG12	1:B:175:TYR:OH	1.99	0.62
1:F:125:ALA:C	1:F:223:LYS:HZ2	2.03	0.62
1:J:311:SER:O	1:J:312:LYS:HB2	1.98	0.62
1:L:311:SER:O	1:L:312:LYS:HB2	1.98	0.62
1:N:123:ASP:OD1	1:N:126:SER:CB	2.47	0.62
1:O:76:PHE:HD2	1:O:110:GLY:O	1.82	0.62
1:O:150:LEU:CD2	1:P:290:LYS:CE	2.77	0.62
1:Q:170:ILE:HG12	1:Q:175:TYR:OH	1.99	0.62
1:B:307:ILE:HD13	1:B:310:MET:CE	2.30	0.62
1:F:288:ASN:CG	1:H:150:LEU:HD12	2.08	0.62
1:G:128:SER:CB	1:G:155:LEU:CD1	2.63	0.62
1:G:268:VAL:CG1	1:H:267:ASP:O	2.46	0.62
1:J:123:ASP:OD1	1:J:126:SER:CB	2.47	0.62
1:K:127:PHE:O	1:K:131:PRO:CB	2.48	0.62
1:L:307:ILE:HD13	1:L:310:MET:CE	2.30	0.62
1:M:125:ALA:C	1:M:223:LYS:HZ2	2.02	0.62
1:O:307:ILE:HD13	1:O:310:MET:CE	2.30	0.62
1:F:268:VAL:CG1	1:G:267:ASP:O	2.46	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:126:SER:HA	1:G:223:LYS:HZ2	1.63	0.62
1:H:123:ASP:OD1	1:H:126:SER:CB	2.47	0.62
1:K:257:ASN:C	1:K:258:VAL:O	2.35	0.62
1:L:144:TYR:C	1:L:144:TYR:CD2	2.73	0.62
1:P:127:PHE:O	1:P:131:PRO:CB	2.48	0.62
1:Q:307:ILE:HD13	1:Q:310:MET:CE	2.30	0.62
1:F:170:ILE:HG12	1:F:175:TYR:OH	1.99	0.62
1:G:162:GLU:C	1:G:252:LEU:HD21	2.13	0.62
1:K:158:LEU:CD1	1:K:224:LEU:HD21	2.27	0.62
1:Q:285:MET:HG3	1:Q:286:ARG:N	2.13	0.62
1:F:290:LYS:CE	1:H:150:LEU:CD2	2.77	0.62
1:G:123:ASP:OD1	1:G:126:SER:CB	2.47	0.62
1:K:307:ILE:HD13	1:K:310:MET:CE	2.30	0.62
1:M:123:ASP:OD1	1:M:126:SER:CB	2.47	0.62
1:M:128:SER:CB	1:M:155:LEU:CD1	2.63	0.62
1:O:127:PHE:O	1:O:131:PRO:CB	2.48	0.62
1:O:170:ILE:HG12	1:O:175:TYR:OH	1.99	0.62
1:F:258:VAL:O	1:F:310:MET:HG2	2.00	0.62
1:G:64:ASP:C	1:G:65:THR:CG2	2.51	0.62
1:H:285:MET:HG3	1:H:286:ARG:N	2.13	0.62
1:L:170:ILE:HG12	1:L:175:TYR:OH	1.99	0.62
1:N:158:LEU:CD1	1:N:224:LEU:HD21	2.27	0.62
1:N:258:VAL:O	1:N:310:MET:HG2	2.00	0.62
1:O:121:TYR:CB	1:O:127:PHE:HB2	2.30	0.62
1:P:123:ASP:OD1	1:P:126:SER:CB	2.47	0.62
1:P:170:ILE:HG12	1:P:175:TYR:OH	1.99	0.62
1:Q:251:LYS:O	1:Q:252:LEU:CB	2.46	0.62
1:B:258:VAL:O	1:B:310:MET:HG2	2.00	0.62
1:F:150:LEU:CD2	1:G:290:LYS:CE	2.77	0.62
1:G:121:TYR:CB	1:G:127:PHE:HB2	2.30	0.62
1:G:175:TYR:OH	1:G:237:LEU:HD22	1.96	0.62
1:I:150:LEU:CD2	1:J:290:LYS:CE	2.77	0.62
1:I:258:VAL:O	1:I:310:MET:HG2	2.00	0.62
1:I:311:SER:O	1:I:312:LYS:HB2	1.98	0.62
1:J:127:PHE:O	1:J:131:PRO:CB	2.48	0.62
1:J:158:LEU:CD1	1:J:224:LEU:HD21	2.27	0.62
1:M:276:THR:CA	1:N:285:MET:HE3	1.95	0.62
1:F:126:SER:CA	1:F:223:LYS:NZ	2.55	0.61
1:H:307:ILE:HD13	1:H:310:MET:CE	2.30	0.61
1:K:174:TYR:CD1	1:K:198:LEU:HD11	2.34	0.61
1:I:76:PHE:HD2	1:I:110:GLY:O	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:127:PHE:O	1:I:131:PRO:CB	2.48	0.61
1:I:267:ASP:O	1:K:268:VAL:CG1	2.46	0.61
1:J:307:ILE:HD13	1:J:310:MET:CE	2.30	0.61
1:K:123:ASP:OD1	1:K:126:SER:CB	2.47	0.61
1:L:123:ASP:OD1	1:L:126:SER:CB	2.47	0.61
1:N:127:PHE:O	1:N:131:PRO:CB	2.48	0.61
1:N:307:ILE:HD13	1:N:310:MET:CE	2.30	0.61
1:Q:123:ASP:OD1	1:Q:126:SER:CB	2.47	0.61
1:I:121:TYR:CB	1:I:127:PHE:HB2	2.30	0.61
1:I:197:PRO:HG2	1:I:205:ILE:CG2	2.31	0.61
1:I:307:ILE:HD13	1:I:310:MET:CE	2.30	0.61
1:J:258:VAL:O	1:J:310:MET:HG2	2.00	0.61
1:N:76:PHE:HD2	1:N:110:GLY:O	1.82	0.61
1:O:123:ASP:OD1	1:O:126:SER:CB	2.47	0.61
1:O:197:PRO:HG2	1:O:205:ILE:CG2	2.31	0.61
1:P:174:TYR:CD1	1:P:198:LEU:HD11	2.34	0.61
1:P:307:ILE:HD13	1:P:310:MET:CE	2.30	0.61
1:G:197:PRO:HG2	1:G:205:ILE:CG2	2.31	0.61
1:H:197:PRO:HG2	1:H:205:ILE:CG2	2.31	0.61
1:J:197:PRO:HG2	1:J:205:ILE:CG2	2.31	0.61
1:K:258:VAL:O	1:K:310:MET:HG2	2.00	0.61
1:M:197:PRO:HG2	1:M:205:ILE:CG2	2.31	0.61
1:M:251:LYS:O	1:M:252:LEU:CB	2.46	0.61
1:N:197:PRO:HG2	1:N:205:ILE:CG2	2.31	0.61
1:P:258:VAL:O	1:P:310:MET:HG2	2.00	0.61
1:Q:127:PHE:O	1:Q:131:PRO:CB	2.48	0.61
1:F:123:ASP:OD1	1:F:126:SER:CB	2.47	0.61
1:F:197:PRO:HG2	1:F:205:ILE:CG2	2.31	0.61
1:H:127:PHE:O	1:H:131:PRO:CB	2.48	0.61
1:J:174:TYR:CD1	1:J:198:LEU:HD13	2.34	0.61
1:L:258:VAL:O	1:L:310:MET:HG2	2.00	0.61
1:M:127:PHE:O	1:M:131:PRO:CB	2.48	0.61
1:F:150:LEU:HG	1:G:290:LYS:HE2	1.83	0.61
1:G:150:LEU:HG	1:H:290:LYS:HE2	1.83	0.61
1:G:258:VAL:O	1:G:310:MET:HG2	2.00	0.61
1:I:150:LEU:HG	1:J:290:LYS:HE2	1.83	0.61
1:I:158:LEU:CD1	1:I:224:LEU:HD21	2.27	0.61
1:K:197:PRO:HG2	1:K:205:ILE:CG2	2.31	0.61
1:L:127:PHE:O	1:L:131:PRO:CB	2.48	0.61
1:L:237:LEU:CD2	1:L:246:ILE:HD13	2.31	0.61
1:M:268:VAL:CG1	1:N:267:ASP:O	2.46	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:307:ILE:HD13	1:M:310:MET:CE	2.30	0.61
1:Q:197:PRO:HG2	1:Q:205:ILE:CG2	2.31	0.61
1:Q:258:VAL:O	1:Q:310:MET:HG2	2.00	0.61
1:B:128:SER:CB	1:B:155:LEU:CD1	2.63	0.61
1:F:127:PHE:O	1:F:131:PRO:CB	2.48	0.61
1:G:276:THR:CA	1:H:285:MET:HE3	1.92	0.61
1:H:158:LEU:CD1	1:H:224:LEU:HD21	2.27	0.61
1:J:150:LEU:HG	1:K:290:LYS:HE2	1.83	0.61
1:J:237:LEU:CD2	1:J:246:ILE:HD13	2.31	0.61
1:K:125:ALA:CB	1:K:223:LYS:CD	2.53	0.61
1:L:126:SER:CA	1:L:223:LYS:NZ	2.55	0.61
1:O:150:LEU:HD22	1:P:290:LYS:HA	1.83	0.61
1:P:276:THR:CA	1:Q:285:MET:HE3	1.93	0.61
1:F:64:ASP:C	1:F:65:THR:CG2	2.51	0.61
1:G:127:PHE:O	1:G:131:PRO:CB	2.48	0.61
1:G:307:ILE:HD13	1:G:310:MET:CE	2.30	0.61
1:H:76:PHE:HD2	1:H:110:GLY:O	1.82	0.61
1:L:197:PRO:HG2	1:L:205:ILE:CG2	2.31	0.61
1:P:126:SER:CA	1:P:223:LYS:NZ	2.55	0.61
1:P:197:PRO:HG2	1:P:205:ILE:CG2	2.31	0.61
1:F:290:LYS:HE2	1:H:150:LEU:HG	1.83	0.61
1:I:150:LEU:HD22	1:J:290:LYS:HA	1.83	0.61
1:J:144:TYR:C	1:J:144:TYR:CD2	2.74	0.61
1:N:237:LEU:CD2	1:N:246:ILE:HD13	2.31	0.61
1:P:237:LEU:CD2	1:P:246:ILE:HD13	2.31	0.61
1:F:149:GLN:CD	1:G:265:GLY:O	2.39	0.61
1:H:144:TYR:HD2	1:H:144:TYR:C	2.04	0.61
1:H:237:LEU:CD2	1:H:246:ILE:HD13	2.31	0.61
1:J:268:VAL:CG1	1:K:267:ASP:O	2.46	0.61
1:O:258:VAL:O	1:O:310:MET:HG2	2.00	0.61
1:P:158:LEU:CD1	1:P:224:LEU:HD21	2.27	0.61
1:B:126:SER:CA	1:B:223:LYS:HZ1	2.03	0.60
1:H:258:VAL:O	1:H:310:MET:HG2	2.00	0.60
1:J:162:GLU:C	1:J:252:LEU:HD21	2.13	0.60
1:K:121:TYR:CB	1:K:127:PHE:HB2	2.30	0.60
1:L:150:LEU:CD2	1:M:290:LYS:CE	2.77	0.60
1:N:125:ALA:C	1:N:223:LYS:HZ2	2.04	0.60
1:Q:237:LEU:CD2	1:Q:246:ILE:HD13	2.31	0.60
1:B:197:PRO:HG2	1:B:205:ILE:CG2	2.31	0.60
1:G:125:ALA:C	1:G:223:LYS:HZ2	2.03	0.60
1:G:150:LEU:HD22	1:H:290:LYS:HA	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:290:LYS:HA	1:N:150:LEU:HD22	1.83	0.60
1:G:158:LEU:CD1	1:G:224:LEU:HD21	2.27	0.60
1:P:174:TYR:CD1	1:P:198:LEU:HD13	2.34	0.60
1:F:222:GLU:HB2	1:F:225:VAL:HG23	1.84	0.60
1:F:265:GLY:O	1:H:149:GLN:CD	2.39	0.60
1:I:222:GLU:HB2	1:I:225:VAL:HG23	1.84	0.60
1:M:174:TYR:CD1	1:M:198:LEU:HD11	2.34	0.60
1:N:222:GLU:HB2	1:N:225:VAL:HG23	1.84	0.60
1:B:257:ASN:O	1:B:258:VAL:C	2.33	0.60
1:F:307:ILE:HA	1:F:310:MET:CE	2.32	0.60
1:F:307:ILE:HD13	1:F:310:MET:CE	2.30	0.60
1:O:150:LEU:HG	1:P:290:LYS:HE2	1.83	0.60
1:F:237:LEU:CD2	1:F:246:ILE:HD13	2.31	0.60
1:I:174:TYR:CD1	1:I:198:LEU:HD11	2.34	0.60
1:J:150:LEU:HD22	1:K:290:LYS:HA	1.83	0.60
1:L:307:ILE:HA	1:L:310:MET:CE	2.32	0.60
1:M:307:ILE:HA	1:M:310:MET:CE	2.32	0.60
1:N:307:ILE:HA	1:N:310:MET:CE	2.32	0.60
1:O:237:LEU:CD2	1:O:246:ILE:HD13	2.31	0.60
1:P:170:ILE:HD13	1:P:239:VAL:CG2	2.32	0.60
1:B:237:LEU:CD2	1:B:246:ILE:HD13	2.31	0.60
1:F:175:TYR:CE1	1:F:237:LEU:HD22	2.37	0.60
1:H:121:TYR:CB	1:H:127:PHE:HB2	2.30	0.60
1:I:170:ILE:HD13	1:I:239:VAL:CG2	2.32	0.60
1:J:222:GLU:HB2	1:J:225:VAL:HG23	1.84	0.60
1:K:307:ILE:HA	1:K:310:MET:CE	2.32	0.60
1:L:150:LEU:HD22	1:M:290:LYS:HA	1.83	0.60
1:M:258:VAL:O	1:M:310:MET:HG2	2.00	0.60
1:O:170:ILE:HD13	1:O:239:VAL:CG2	2.32	0.60
1:B:78:THR:O	1:B:78:THR:HG22	2.02	0.60
1:B:121:TYR:CB	1:B:127:PHE:HB2	2.30	0.60
1:F:158:LEU:CD1	1:F:224:LEU:HD21	2.27	0.60
1:I:175:TYR:CE1	1:I:237:LEU:HD22	2.37	0.60
1:L:222:GLU:HB2	1:L:225:VAL:HG23	1.84	0.60
1:M:149:GLN:CD	1:N:265:GLY:O	2.39	0.60
1:M:237:LEU:CD2	1:M:246:ILE:HD13	2.31	0.60
1:O:290:LYS:HA	1:Q:150:LEU:HD22	1.83	0.60
1:Q:121:TYR:CB	1:Q:127:PHE:HB2	2.30	0.60
1:B:222:GLU:HB2	1:B:225:VAL:HG23	1.84	0.60
1:H:170:ILE:CD1	1:H:239:VAL:CG2	2.80	0.60
1:J:175:TYR:CE1	1:J:237:LEU:HD22	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:222:GLU:HB2	1:K:225:VAL:HG23	1.84	0.60
1:L:150:LEU:HG	1:M:290:LYS:HE2	1.83	0.60
1:L:265:GLY:O	1:N:149:GLN:CD	2.39	0.60
1:M:150:LEU:HD22	1:N:290:LYS:HA	1.83	0.60
1:M:222:GLU:HB2	1:M:225:VAL:HG23	1.84	0.60
1:O:288:ASN:CG	1:Q:150:LEU:HD12	2.08	0.60
1:O:290:LYS:CE	1:Q:150:LEU:CD2	2.77	0.60
1:P:128:SER:CB	1:P:155:LEU:CD1	2.63	0.60
1:Q:307:ILE:HA	1:Q:310:MET:CE	2.32	0.60
1:B:70:SER:O	1:B:71:THR:OG1	2.20	0.60
1:B:125:ALA:C	1:B:223:LYS:HZ2	2.06	0.60
1:F:144:TYR:CD2	1:F:145:ASP:N	2.65	0.60
1:F:267:ASP:O	1:H:268:VAL:CG1	2.46	0.60
1:G:170:ILE:HD13	1:G:239:VAL:CG2	2.32	0.60
1:H:307:ILE:HA	1:H:310:MET:CE	2.32	0.60
1:M:170:ILE:CD1	1:M:239:VAL:CG2	2.80	0.60
1:G:222:GLU:HB2	1:G:225:VAL:HG23	1.84	0.59
1:G:237:LEU:CD2	1:G:246:ILE:HD13	2.31	0.59
1:G:307:ILE:HA	1:G:310:MET:CE	2.32	0.59
1:H:175:TYR:CE1	1:H:237:LEU:HD22	2.37	0.59
1:I:237:LEU:CD2	1:I:246:ILE:HD13	2.31	0.59
1:I:290:LYS:HA	1:K:150:LEU:HD22	1.83	0.59
1:I:290:LYS:HE2	1:K:150:LEU:HG	1.83	0.59
1:I:307:ILE:HA	1:I:310:MET:CE	2.32	0.59
1:J:121:TYR:CB	1:J:127:PHE:HB2	2.30	0.59
1:K:237:LEU:CD2	1:K:246:ILE:HD13	2.31	0.59
1:L:185:ILE:HG12	1:L:226:ILE:HG12	1.84	0.59
1:O:158:LEU:CD1	1:O:224:LEU:HD21	2.27	0.59
1:O:185:ILE:HG12	1:O:226:ILE:HG12	1.84	0.59
1:O:290:LYS:HE2	1:Q:150:LEU:HG	1.83	0.59
1:O:307:ILE:HA	1:O:310:MET:CE	2.32	0.59
1:B:185:ILE:HG12	1:B:226:ILE:HG12	1.84	0.59
1:F:125:ALA:HB1	1:F:223:LYS:CB	2.32	0.59
1:H:125:ALA:HB1	1:H:223:LYS:CB	2.33	0.59
1:H:170:ILE:HD13	1:H:239:VAL:CG2	2.32	0.59
1:J:170:ILE:CD1	1:J:239:VAL:CG2	2.80	0.59
1:L:170:ILE:HD13	1:L:239:VAL:CG2	2.32	0.59
1:L:267:ASP:O	1:N:268:VAL:CG1	2.46	0.59
1:O:267:ASP:O	1:Q:268:VAL:CG1	2.46	0.59
1:Q:170:ILE:HD13	1:Q:239:VAL:CG2	2.32	0.59
1:F:150:LEU:HD22	1:G:290:LYS:HA	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:149:GLN:CD	1:K:265:GLY:O	2.39	0.59
1:K:72:GLN:C	1:K:76:PHE:CD1	2.71	0.59
1:M:150:LEU:HG	1:N:290:LYS:HE2	1.83	0.59
1:O:175:TYR:CE1	1:O:237:LEU:HD22	2.37	0.59
1:P:121:TYR:CB	1:P:127:PHE:HB2	2.30	0.59
1:P:307:ILE:HA	1:P:310:MET:CE	2.32	0.59
1:Q:170:ILE:CD1	1:Q:239:VAL:CG2	2.80	0.59
1:B:175:TYR:CE1	1:B:237:LEU:HD22	2.37	0.59
1:G:274:ASP:OD1	1:G:276:THR:OG1	2.20	0.59
1:H:185:ILE:HG12	1:H:226:ILE:HG12	1.84	0.59
1:H:222:GLU:HB2	1:H:225:VAL:HG23	1.84	0.59
1:I:125:ALA:HB1	1:I:223:LYS:CB	2.32	0.59
1:K:75:THR:HG23	1:K:79:SER:OG	2.02	0.59
1:L:144:TYR:HD2	1:L:144:TYR:C	2.05	0.59
1:M:158:LEU:CD1	1:M:224:LEU:HD21	2.27	0.59
1:N:168:MET:HE2	1:N:175:TYR:CG	2.38	0.59
1:N:170:ILE:HD13	1:N:239:VAL:CG2	2.32	0.59
1:N:175:TYR:CE1	1:N:237:LEU:HD22	2.37	0.59
1:Q:158:LEU:CD1	1:Q:224:LEU:HD21	2.27	0.59
1:F:121:TYR:CB	1:F:127:PHE:HB2	2.30	0.59
1:F:170:ILE:HD13	1:F:239:VAL:CG2	2.32	0.59
1:F:276:THR:CA	1:G:285:MET:HE3	1.93	0.59
1:H:274:ASP:OD1	1:H:276:THR:OG1	2.20	0.59
1:I:149:GLN:CD	1:J:265:GLY:O	2.39	0.59
1:I:290:LYS:CE	1:K:150:LEU:CD2	2.77	0.59
1:J:150:LEU:CD2	1:K:290:LYS:CE	2.77	0.59
1:L:275:PRO:CD	1:L:276:THR:N	2.66	0.59
1:L:290:LYS:CE	1:N:150:LEU:CD2	2.77	0.59
1:M:275:PRO:CD	1:M:276:THR:N	2.66	0.59
1:O:265:GLY:O	1:Q:149:GLN:CD	2.39	0.59
1:O:274:ASP:OD1	1:O:276:THR:OG1	2.20	0.59
1:P:150:LEU:HG	1:Q:290:LYS:HE2	1.83	0.59
1:P:170:ILE:CD1	1:P:239:VAL:CG2	2.80	0.59
1:P:185:ILE:HG12	1:P:226:ILE:HG12	1.85	0.59
1:B:307:ILE:HA	1:B:310:MET:CE	2.32	0.59
1:F:274:ASP:OD1	1:F:276:THR:OG1	2.20	0.59
1:I:170:ILE:CD1	1:I:239:VAL:CG2	2.80	0.59
1:M:258:VAL:CG1	1:M:259:ALA:H	2.16	0.59
1:N:174:TYR:CD1	1:N:198:LEU:HD11	2.34	0.59
1:N:275:PRO:CD	1:N:276:THR:N	2.66	0.59
1:O:125:ALA:HB1	1:O:223:LYS:CB	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:150:LEU:HD22	1:Q:290:LYS:HA	1.83	0.59
1:Q:175:TYR:CE1	1:Q:237:LEU:HD22	2.37	0.59
1:B:246:ILE:O	1:B:246:ILE:CG2	2.51	0.59
1:K:185:ILE:HG12	1:K:226:ILE:HG12	1.84	0.59
1:M:121:TYR:CB	1:M:127:PHE:HB2	2.30	0.59
1:N:72:GLN:CB	1:N:76:PHE:CE1	2.70	0.59
1:N:168:MET:HE2	1:N:175:TYR:CZ	2.25	0.59
1:Q:185:ILE:HG12	1:Q:226:ILE:HG12	1.84	0.59
1:B:125:ALA:HB1	1:B:223:LYS:CB	2.32	0.59
1:F:170:ILE:CD1	1:F:239:VAL:CG2	2.80	0.59
1:F:275:PRO:CD	1:F:276:THR:N	2.66	0.59
1:H:246:ILE:O	1:H:246:ILE:CG2	2.51	0.59
1:K:170:ILE:CD1	1:K:239:VAL:CG2	2.80	0.59
1:L:170:ILE:CD1	1:L:239:VAL:CG2	2.80	0.59
1:L:251:LYS:O	1:L:252:LEU:CB	2.46	0.59
1:L:274:ASP:OD1	1:L:276:THR:OG1	2.20	0.59
1:N:170:ILE:CD1	1:N:239:VAL:CG2	2.80	0.59
1:G:117:TYR:CZ	1:O:167:PRO:O	2.55	0.59
1:J:274:ASP:OD1	1:J:276:THR:OG1	2.20	0.59
1:K:175:TYR:CE1	1:K:237:LEU:HD22	2.37	0.59
1:K:274:ASP:OD1	1:K:276:THR:OG1	2.20	0.59
1:L:168:MET:HE2	1:L:175:TYR:CG	2.38	0.59
1:L:175:TYR:CE1	1:L:237:LEU:HD22	2.37	0.59
1:L:268:VAL:CG1	1:M:267:ASP:O	2.46	0.59
1:N:274:ASP:OD1	1:N:276:THR:OG1	2.20	0.59
1:O:258:VAL:CG1	1:O:259:ALA:H	2.16	0.59
1:Q:274:ASP:OD1	1:Q:276:THR:OG1	2.20	0.59
1:G:175:TYR:CE1	1:G:237:LEU:HD22	2.37	0.59
1:J:144:TYR:HD2	1:J:144:TYR:C	2.06	0.59
1:K:125:ALA:HB1	1:K:223:LYS:CB	2.32	0.59
1:K:258:VAL:CG1	1:K:259:ALA:H	2.16	0.59
1:M:170:ILE:HD13	1:M:239:VAL:CG2	2.32	0.59
1:N:185:ILE:HG12	1:N:226:ILE:HG12	1.84	0.59
1:O:150:LEU:HD22	1:P:289:TRP:C	2.21	0.59
1:P:175:TYR:CE1	1:P:237:LEU:HD22	2.37	0.59
1:F:290:LYS:HA	1:H:150:LEU:HD22	1.83	0.58
1:G:170:ILE:CD1	1:G:239:VAL:CG2	2.80	0.58
1:L:125:ALA:HB1	1:L:223:LYS:CB	2.33	0.58
1:P:268:VAL:CG1	1:Q:267:ASP:O	2.46	0.58
1:Q:246:ILE:O	1:Q:246:ILE:CG2	2.51	0.58
1:Q:258:VAL:CG1	1:Q:259:ALA:H	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:78:THR:HG22	1:F:78:THR:O	2.02	0.58
1:F:185:ILE:HG12	1:F:226:ILE:HG12	1.84	0.58
1:H:275:PRO:CD	1:H:276:THR:N	2.66	0.58
1:J:258:VAL:CG1	1:J:259:ALA:H	2.16	0.58
1:L:128:SER:CB	1:L:155:LEU:CD1	2.63	0.58
1:M:175:TYR:CE1	1:M:237:LEU:HD22	2.37	0.58
1:N:128:SER:CB	1:N:155:LEU:CD1	2.63	0.58
1:P:149:GLN:CD	1:Q:265:GLY:O	2.39	0.58
1:G:255:ARG:CD	1:G:257:ASN:ND2	2.67	0.58
1:J:127:PHE:O	1:J:131:PRO:HB3	2.04	0.58
1:K:72:GLN:CB	1:K:76:PHE:CE1	2.70	0.58
1:L:121:TYR:CB	1:L:127:PHE:HB2	2.30	0.58
1:L:150:LEU:HD22	1:M:289:TRP:C	2.21	0.58
1:L:290:LYS:HE2	1:N:150:LEU:HG	1.83	0.58
1:M:70:SER:O	1:M:71:THR:CB	2.51	0.58
1:N:70:SER:O	1:N:71:THR:CB	2.52	0.58
1:Q:162:GLU:C	1:Q:252:LEU:HD21	2.13	0.58
1:B:170:ILE:CD1	1:B:239:VAL:CG2	2.80	0.58
1:B:255:ARG:CD	1:B:257:ASN:ND2	2.67	0.58
1:F:307:ILE:HD13	1:F:310:MET:HE1	1.84	0.58
1:H:255:ARG:CD	1:H:257:ASN:ND2	2.67	0.58
1:I:87:THR:HG1	1:I:122:THR:HG22	1.67	0.58
1:I:268:VAL:CG1	1:J:267:ASP:O	2.46	0.58
1:J:246:ILE:O	1:J:246:ILE:CG2	2.51	0.58
1:K:255:ARG:CD	1:K:257:ASN:ND2	2.67	0.58
1:L:127:PHE:O	1:L:131:PRO:HB3	2.04	0.58
1:L:246:ILE:O	1:L:246:ILE:CG2	2.51	0.58
1:L:255:ARG:CD	1:L:257:ASN:ND2	2.67	0.58
1:M:246:ILE:O	1:M:246:ILE:CG2	2.51	0.58
1:O:170:ILE:CD1	1:O:239:VAL:CG2	2.80	0.58
1:O:255:ARG:CD	1:O:257:ASN:ND2	2.67	0.58
1:P:125:ALA:HB1	1:P:223:LYS:CB	2.32	0.58
1:B:170:ILE:HD13	1:B:239:VAL:CG2	2.32	0.58
1:B:274:ASP:OD1	1:B:276:THR:OG1	2.20	0.58
1:G:300:VAL:HA	1:G:303:VAL:HG22	1.86	0.58
1:K:262:GLN:HE22	1:K:267:ASP:HB3	1.69	0.58
1:M:150:LEU:HD22	1:N:289:TRP:C	2.21	0.58
1:M:174:TYR:CD1	1:M:198:LEU:HD13	2.34	0.58
1:N:121:TYR:CB	1:N:127:PHE:HB2	2.30	0.58
1:O:70:SER:O	1:O:71:THR:CB	2.51	0.58
1:O:73:GLU:O	1:O:73:GLU:CG	2.48	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:222:GLU:HB2	1:O:225:VAL:HG23	1.84	0.58
1:O:246:ILE:O	1:O:246:ILE:CG2	2.51	0.58
1:P:255:ARG:CD	1:P:257:ASN:ND2	2.67	0.58
1:I:255:ARG:CD	1:I:257:ASN:ND2	2.67	0.58
1:J:170:ILE:HD13	1:J:239:VAL:CG2	2.32	0.58
1:J:255:ARG:CD	1:J:257:ASN:ND2	2.67	0.58
1:M:274:ASP:OD1	1:M:276:THR:OG1	2.20	0.58
1:O:72:GLN:CB	1:O:76:PHE:CE1	2.70	0.58
1:P:258:VAL:CG1	1:P:259:ALA:H	2.16	0.58
1:Q:125:ALA:HB1	1:Q:223:LYS:CB	2.32	0.58
1:Q:222:GLU:HB2	1:Q:225:VAL:HG23	1.84	0.58
1:F:127:PHE:O	1:F:131:PRO:HB3	2.04	0.58
1:I:185:ILE:HG12	1:I:226:ILE:HG12	1.84	0.58
1:K:127:PHE:O	1:K:131:PRO:HB3	2.04	0.58
1:K:170:ILE:HD13	1:K:239:VAL:CG2	2.32	0.58
1:M:127:PHE:O	1:M:131:PRO:HB3	2.04	0.58
1:N:246:ILE:O	1:N:246:ILE:CG2	2.51	0.58
1:P:222:GLU:HB2	1:P:225:VAL:HG23	1.84	0.58
1:P:274:ASP:OD1	1:P:276:THR:OG1	2.20	0.58
1:Q:262:GLN:HE22	1:Q:267:ASP:HB3	1.69	0.58
1:G:174:TYR:CD1	1:G:198:LEU:HD11	2.34	0.58
1:J:307:ILE:HA	1:J:310:MET:CE	2.32	0.58
1:M:150:LEU:CD2	1:N:290:LYS:CE	2.77	0.58
1:P:127:PHE:O	1:P:131:PRO:HB3	2.04	0.58
1:B:300:VAL:HA	1:B:303:VAL:HG22	1.86	0.58
1:G:125:ALA:HB1	1:G:223:LYS:CB	2.33	0.58
1:H:76:PHE:HE2	1:H:109:LYS:O	1.87	0.58
1:H:148:LEU:O	1:H:151:ASP:N	2.36	0.58
1:I:127:PHE:O	1:I:131:PRO:HB3	2.04	0.58
1:I:274:ASP:OD1	1:I:276:THR:OG1	2.20	0.58
1:J:205:ILE:HG13	1:K:104:GLN:OE1	2.04	0.58
1:N:125:ALA:HB1	1:N:223:LYS:CB	2.32	0.58
1:N:174:TYR:CD1	1:N:198:LEU:HD13	2.34	0.58
1:N:255:ARG:CD	1:N:257:ASN:ND2	2.67	0.58
1:O:300:VAL:HA	1:O:303:VAL:HG22	1.86	0.58
1:P:75:THR:HG23	1:P:79:SER:OG	2.04	0.58
1:P:205:ILE:HG13	1:Q:104:GLN:OE1	2.04	0.58
1:G:127:PHE:O	1:G:131:PRO:HB3	2.04	0.58
1:G:185:ILE:HG12	1:G:226:ILE:HG12	1.84	0.58
1:G:246:ILE:O	1:G:246:ILE:CG2	2.51	0.58
1:G:258:VAL:CG1	1:G:259:ALA:H	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:300:VAL:HA	1:I:303:VAL:HG22	1.86	0.58
1:J:162:GLU:HB2	1:J:253:GLY:C	2.24	0.58
1:K:246:ILE:O	1:K:246:ILE:CG2	2.51	0.58
1:M:300:VAL:HA	1:M:303:VAL:HG22	1.86	0.58
1:N:127:PHE:O	1:N:131:PRO:HB3	2.04	0.58
1:O:149:GLN:CD	1:P:265:GLY:O	2.39	0.58
1:P:76:PHE:HE2	1:P:109:LYS:O	1.87	0.58
1:P:246:ILE:O	1:P:246:ILE:CG2	2.51	0.58
1:F:300:VAL:HA	1:F:303:VAL:HG22	1.86	0.57
1:H:127:PHE:O	1:H:131:PRO:HB3	2.04	0.57
1:I:246:ILE:O	1:I:246:ILE:CG2	2.51	0.57
1:I:262:GLN:HE22	1:I:267:ASP:HB3	1.69	0.57
1:K:70:SER:O	1:K:71:THR:CB	2.51	0.57
1:K:76:PHE:HE2	1:K:109:LYS:O	1.87	0.57
1:K:125:ALA:C	1:K:223:LYS:HZ2	2.07	0.57
1:L:300:VAL:HA	1:L:303:VAL:HG22	1.86	0.57
1:P:300:VAL:HA	1:P:303:VAL:HG22	1.86	0.57
1:F:72:GLN:C	1:F:76:PHE:CD1	2.71	0.57
1:F:125:ALA:O	1:F:129:VAL:HG23	2.05	0.57
1:G:70:SER:O	1:G:71:THR:CB	2.52	0.57
1:G:275:PRO:CD	1:G:276:THR:N	2.66	0.57
1:K:300:VAL:HA	1:K:303:VAL:HG22	1.86	0.57
1:L:262:GLN:HE22	1:L:267:ASP:HB3	1.69	0.57
1:M:125:ALA:HB1	1:M:223:LYS:CB	2.32	0.57
1:N:73:GLU:O	1:N:73:GLU:HG2	2.04	0.57
1:O:174:TYR:HD1	1:O:198:LEU:HD12	1.63	0.57
1:P:125:ALA:O	1:P:129:VAL:HG23	2.05	0.57
1:B:162:GLU:HB2	1:B:253:GLY:C	2.25	0.57
1:G:125:ALA:O	1:G:129:VAL:HG23	2.04	0.57
1:I:175:TYR:O	1:I:234:ASN:HA	2.04	0.57
1:J:125:ALA:HB1	1:J:223:LYS:CB	2.32	0.57
1:J:185:ILE:HG12	1:J:226:ILE:HG12	1.84	0.57
1:N:125:ALA:O	1:N:129:VAL:HG23	2.05	0.57
1:N:257:ASN:O	1:N:258:VAL:C	2.33	0.57
1:O:75:THR:HG23	1:O:79:SER:OG	2.04	0.57
1:P:70:SER:O	1:P:71:THR:CB	2.51	0.57
1:Q:78:THR:HG22	1:Q:78:THR:O	2.05	0.57
1:Q:162:GLU:HB2	1:Q:253:GLY:C	2.24	0.57
1:F:246:ILE:O	1:F:246:ILE:CG2	2.51	0.57
1:I:76:PHE:HE2	1:I:109:LYS:O	1.87	0.57
1:I:104:GLN:OE1	1:K:205:ILE:HG13	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:265:GLY:O	1:K:149:GLN:CD	2.39	0.57
1:J:174:TYR:CD1	1:J:198:LEU:HD11	2.34	0.57
1:L:84:TYR:HB2	1:L:140:VAL:HG23	1.87	0.57
1:L:125:ALA:O	1:L:129:VAL:HG23	2.04	0.57
1:L:162:GLU:HB2	1:L:253:GLY:C	2.25	0.57
1:N:64:ASP:C	1:N:65:THR:CG2	2.51	0.57
1:O:262:GLN:HE22	1:O:267:ASP:HB3	1.69	0.57
1:P:168:MET:HE3	1:P:175:TYR:CE1	2.26	0.57
1:F:76:PHE:HE2	1:F:109:LYS:O	1.87	0.57
1:J:262:GLN:HE22	1:J:267:ASP:HB3	1.69	0.57
1:K:275:PRO:CD	1:K:276:THR:N	2.66	0.57
1:L:149:GLN:CD	1:M:265:GLY:O	2.39	0.57
1:M:185:ILE:HG12	1:M:226:ILE:HG12	1.84	0.57
1:M:262:GLN:HE22	1:M:267:ASP:HB3	1.69	0.57
1:N:78:THR:O	1:N:78:THR:CG2	2.51	0.57
1:O:125:ALA:O	1:O:129:VAL:HG23	2.05	0.57
1:O:127:PHE:O	1:O:131:PRO:HB3	2.04	0.57
1:O:162:GLU:HB2	1:O:253:GLY:C	2.25	0.57
1:Q:125:ALA:O	1:Q:129:VAL:HG23	2.05	0.57
1:B:125:ALA:O	1:B:129:VAL:HG23	2.05	0.57
1:F:255:ARG:CD	1:F:257:ASN:ND2	2.67	0.57
1:F:285:MET:HE3	1:H:276:THR:CA	1.88	0.57
1:H:174:TYR:CD1	1:H:198:LEU:HD11	2.34	0.57
1:I:205:ILE:HG13	1:J:104:GLN:OE1	2.04	0.57
1:K:125:ALA:O	1:K:129:VAL:HG23	2.05	0.57
1:M:84:TYR:HB2	1:M:140:VAL:HG23	1.87	0.57
1:P:307:ILE:HD13	1:P:310:MET:HE1	1.85	0.57
1:Q:208:LEU:C	1:Q:210:THR:H	2.08	0.57
1:F:289:TRP:C	1:H:150:LEU:HD22	2.21	0.57
1:H:78:THR:O	1:H:78:THR:HG22	2.02	0.57
1:I:123:ASP:CG	1:I:126:SER:H	2.08	0.57
1:I:150:LEU:HD22	1:J:289:TRP:C	2.21	0.57
1:N:262:GLN:HE22	1:N:267:ASP:HB3	1.69	0.57
1:O:205:ILE:HG13	1:P:104:GLN:OE1	2.04	0.57
1:Q:300:VAL:HA	1:Q:303:VAL:HG22	1.86	0.57
1:B:93:ILE:HG23	1:B:293:TRP:NE1	2.20	0.57
1:F:307:ILE:HA	1:F:310:MET:HE3	1.86	0.57
1:H:300:VAL:HA	1:H:303:VAL:HG22	1.86	0.57
1:K:142:MET:HE1	1:K:152:MET:HB3	1.86	0.57
1:N:208:LEU:C	1:N:210:THR:H	2.08	0.57
1:O:76:PHE:HE2	1:O:109:LYS:O	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:255:ARG:CD	1:Q:257:ASN:ND2	2.67	0.57
1:B:208:LEU:C	1:B:210:THR:H	2.08	0.57
1:B:262:GLN:HE22	1:B:267:ASP:HB3	1.69	0.57
1:I:162:GLU:HB2	1:I:253:GLY:C	2.24	0.57
1:J:144:TYR:CD2	1:J:145:ASP:N	2.68	0.57
1:L:276:THR:CA	1:M:285:MET:HE3	1.95	0.57
1:M:76:PHE:HE2	1:M:109:LYS:O	1.87	0.57
1:N:162:GLU:HB2	1:N:253:GLY:C	2.24	0.57
1:O:125:ALA:C	1:O:223:LYS:HZ2	2.07	0.57
1:P:93:ILE:HG23	1:P:293:TRP:NE1	2.20	0.57
1:P:262:GLN:HE22	1:P:267:ASP:HB3	1.69	0.57
1:B:127:PHE:O	1:B:131:PRO:HB3	2.04	0.57
1:F:104:GLN:OE1	1:H:205:ILE:HG13	2.04	0.57
1:G:150:LEU:HD22	1:H:289:TRP:C	2.21	0.57
1:H:93:ILE:HG23	1:H:293:TRP:NE1	2.20	0.57
1:I:251:LYS:O	1:I:252:LEU:CB	2.46	0.57
1:J:123:ASP:CG	1:J:126:SER:H	2.08	0.57
1:K:70:SER:O	1:K:71:THR:HB	2.05	0.57
1:K:123:ASP:CG	1:K:126:SER:H	2.08	0.57
1:K:208:LEU:C	1:K:210:THR:H	2.08	0.57
1:L:123:ASP:CG	1:L:126:SER:H	2.08	0.57
1:M:93:ILE:HG23	1:M:293:TRP:NE1	2.20	0.57
1:M:162:GLU:HB2	1:M:253:GLY:C	2.24	0.57
1:M:208:LEU:C	1:M:210:THR:H	2.08	0.57
1:N:70:SER:O	1:N:71:THR:HB	2.05	0.57
1:N:93:ILE:HG23	1:N:293:TRP:NE1	2.20	0.57
1:B:123:ASP:CG	1:B:126:SER:H	2.08	0.56
1:B:275:PRO:CD	1:B:276:THR:N	2.66	0.56
1:F:208:LEU:C	1:F:210:THR:H	2.08	0.56
1:G:75:THR:HG23	1:G:79:SER:OG	2.05	0.56
1:G:76:PHE:HE2	1:G:109:LYS:O	1.87	0.56
1:G:262:GLN:HE22	1:G:267:ASP:HB3	1.69	0.56
1:H:84:TYR:HB2	1:H:140:VAL:HG23	1.87	0.56
1:H:262:GLN:HE22	1:H:267:ASP:HB3	1.69	0.56
1:I:208:LEU:C	1:I:210:THR:H	2.08	0.56
1:L:104:GLN:OE1	1:N:205:ILE:HG13	2.04	0.56
1:L:205:ILE:HG13	1:M:104:GLN:OE1	2.04	0.56
1:M:307:ILE:HD13	1:M:310:MET:HE1	1.87	0.56
1:N:76:PHE:HE2	1:N:109:LYS:O	1.87	0.56
1:O:150:LEU:HD12	1:P:288:ASN:CG	2.08	0.56
1:Q:127:PHE:CZ	1:Q:159:ILE:HD11	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:174:TYR:HD1	1:Q:198:LEU:HD12	1.63	0.56
1:F:123:ASP:CG	1:F:126:SER:H	2.08	0.56
1:F:162:GLU:HB2	1:F:253:GLY:C	2.25	0.56
1:H:162:GLU:HB2	1:H:253:GLY:C	2.25	0.56
1:M:125:ALA:O	1:M:129:VAL:HG23	2.05	0.56
1:Q:84:TYR:HB2	1:Q:140:VAL:HG23	1.87	0.56
1:Q:127:PHE:O	1:Q:131:PRO:HB3	2.04	0.56
1:F:127:PHE:CZ	1:F:159:ILE:HD11	2.41	0.56
1:F:174:TYR:CD1	1:F:198:LEU:HD11	2.34	0.56
1:G:162:GLU:HB2	1:G:253:GLY:C	2.24	0.56
1:H:72:GLN:C	1:H:76:PHE:CD1	2.71	0.56
1:H:144:TYR:HD1	1:H:265:GLY:HA3	1.69	0.56
1:H:208:LEU:C	1:H:210:THR:H	2.08	0.56
1:H:258:VAL:CG1	1:H:259:ALA:H	2.16	0.56
1:I:93:ILE:HG23	1:I:293:TRP:NE1	2.20	0.56
1:I:125:ALA:O	1:I:129:VAL:HG23	2.05	0.56
1:J:76:PHE:HE2	1:J:109:LYS:O	1.87	0.56
1:J:275:PRO:CD	1:J:276:THR:N	2.66	0.56
1:J:276:THR:CA	1:K:285:MET:HE3	1.90	0.56
1:J:307:ILE:HD13	1:J:310:MET:HE1	1.87	0.56
1:K:93:ILE:HG23	1:K:293:TRP:NE1	2.20	0.56
1:L:93:ILE:HG23	1:L:293:TRP:NE1	2.20	0.56
1:M:255:ARG:CD	1:M:257:ASN:ND2	2.67	0.56
1:O:104:GLN:OE1	1:Q:205:ILE:HG13	2.04	0.56
1:O:127:PHE:CZ	1:O:159:ILE:HD11	2.40	0.56
1:O:208:LEU:C	1:O:210:THR:H	2.08	0.56
1:P:251:LYS:O	1:P:252:LEU:CB	2.46	0.56
1:Q:76:PHE:HE2	1:Q:109:LYS:O	1.87	0.56
1:Q:197:PRO:O	1:Q:205:ILE:HG22	2.06	0.56
1:F:205:ILE:HG13	1:G:104:GLN:OE1	2.04	0.56
1:G:123:ASP:CG	1:G:126:SER:H	2.08	0.56
1:G:205:ILE:HG13	1:H:104:GLN:OE1	2.04	0.56
1:J:208:LEU:C	1:J:210:THR:H	2.08	0.56
1:J:300:VAL:HA	1:J:303:VAL:HG22	1.86	0.56
1:M:70:SER:O	1:M:71:THR:HB	2.06	0.56
1:N:144:TYR:HD1	1:N:265:GLY:HA3	1.70	0.56
1:N:168:MET:CE	1:N:175:TYR:CE2	2.78	0.56
1:N:258:VAL:CG1	1:N:259:ALA:H	2.16	0.56
1:N:300:VAL:HA	1:N:303:VAL:HG22	1.86	0.56
1:P:162:GLU:HB2	1:P:253:GLY:C	2.24	0.56
1:P:208:LEU:C	1:P:210:THR:H	2.08	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:275:PRO:CD	1:P:276:THR:N	2.66	0.56
1:Q:128:SER:CB	1:Q:155:LEU:CD1	2.63	0.56
1:F:197:PRO:O	1:F:205:ILE:HG22	2.06	0.56
1:G:93:ILE:HG23	1:G:293:TRP:NE1	2.20	0.56
1:G:149:GLN:CD	1:H:265:GLY:O	2.39	0.56
1:H:128:SER:CB	1:H:155:LEU:CD1	2.63	0.56
1:J:70:SER:O	1:J:71:THR:CB	2.52	0.56
1:J:197:PRO:O	1:J:205:ILE:HG22	2.06	0.56
1:L:168:MET:HE2	1:L:175:TYR:CD1	2.41	0.56
1:L:197:PRO:O	1:L:205:ILE:HG22	2.06	0.56
1:M:205:ILE:HG13	1:N:104:GLN:OE1	2.04	0.56
1:O:84:TYR:HB2	1:O:140:VAL:HG23	1.87	0.56
1:B:76:PHE:HE2	1:B:109:LYS:O	1.87	0.56
1:G:72:GLN:C	1:G:76:PHE:CD1	2.71	0.56
1:G:127:PHE:CZ	1:G:159:ILE:HD11	2.41	0.56
1:H:127:PHE:CZ	1:H:159:ILE:HD11	2.41	0.56
1:J:72:GLN:C	1:J:76:PHE:CD1	2.71	0.56
1:M:108:THR:CG2	1:M:109:LYS:N	2.69	0.56
1:N:109:LYS:HG3	1:N:300:VAL:O	2.06	0.56
1:P:72:GLN:CB	1:P:76:PHE:CE1	2.70	0.56
1:P:197:PRO:O	1:P:205:ILE:HG22	2.06	0.56
1:F:108:THR:CG2	1:F:109:LYS:N	2.69	0.56
1:F:237:LEU:HD21	1:F:246:ILE:CD1	2.36	0.56
1:I:127:PHE:CZ	1:I:159:ILE:HD11	2.41	0.56
1:I:237:LEU:HD21	1:I:246:ILE:CD1	2.36	0.56
1:J:108:THR:CG2	1:J:109:LYS:N	2.69	0.56
1:J:125:ALA:O	1:J:129:VAL:HG23	2.05	0.56
1:L:76:PHE:HE2	1:L:109:LYS:O	1.87	0.56
1:N:159:ILE:HG23	1:N:258:VAL:CG2	2.11	0.56
1:O:93:ILE:HG23	1:O:293:TRP:NE1	2.20	0.56
1:O:237:LEU:HD21	1:O:246:ILE:CD1	2.36	0.56
1:O:251:LYS:O	1:O:252:LEU:CB	2.46	0.56
1:P:123:ASP:CG	1:P:126:SER:H	2.08	0.56
1:F:70:SER:O	1:F:71:THR:CB	2.54	0.56
1:F:109:LYS:HG3	1:F:300:VAL:O	2.06	0.56
1:F:258:VAL:CG1	1:F:259:ALA:H	2.16	0.56
1:H:197:PRO:O	1:H:205:ILE:HG22	2.06	0.56
1:J:127:PHE:CZ	1:J:159:ILE:HD11	2.41	0.56
1:K:64:ASP:C	1:K:65:THR:CG2	2.51	0.56
1:L:75:THR:HG23	1:L:79:SER:OG	2.06	0.56
1:L:109:LYS:HG3	1:L:300:VAL:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:197:PRO:O	1:M:205:ILE:HG22	2.06	0.56
1:O:70:SER:O	1:O:71:THR:HB	2.05	0.56
1:Q:72:GLN:CB	1:Q:76:PHE:CE1	2.70	0.56
1:Q:123:ASP:CG	1:Q:126:SER:H	2.08	0.56
1:B:197:PRO:O	1:B:205:ILE:HG22	2.06	0.56
1:B:237:LEU:HD21	1:B:246:ILE:CD1	2.36	0.56
1:F:93:ILE:HG23	1:F:293:TRP:NE1	2.20	0.56
1:G:84:TYR:HB2	1:G:140:VAL:HG23	1.87	0.56
1:H:72:GLN:CB	1:H:76:PHE:CE1	2.70	0.56
1:H:174:TYR:HD1	1:H:198:LEU:HD12	1.63	0.56
1:I:84:TYR:HB2	1:I:140:VAL:HG23	1.87	0.56
1:I:108:THR:CG2	1:I:109:LYS:N	2.69	0.56
1:L:108:THR:CG2	1:L:109:LYS:N	2.69	0.56
1:L:159:ILE:HG23	1:L:258:VAL:CG2	2.11	0.56
1:L:208:LEU:C	1:L:210:THR:H	2.08	0.56
1:N:84:TYR:HB2	1:N:140:VAL:HG23	1.87	0.56
1:N:123:ASP:CG	1:N:126:SER:H	2.08	0.56
1:N:127:PHE:CZ	1:N:159:ILE:HD11	2.41	0.56
1:N:168:MET:HE2	1:N:175:TYR:CD1	2.40	0.56
1:N:237:LEU:HD21	1:N:246:ILE:CD1	2.36	0.56
1:P:84:TYR:HB2	1:P:140:VAL:HG23	1.87	0.56
1:Q:275:PRO:CD	1:Q:276:THR:N	2.66	0.56
1:B:168:MET:HE2	1:B:175:TYR:CD2	2.38	0.56
1:H:123:ASP:CG	1:H:126:SER:H	2.08	0.56
1:H:125:ALA:O	1:H:129:VAL:HG23	2.04	0.56
1:H:257:ASN:O	1:H:258:VAL:C	2.33	0.56
1:J:84:TYR:HB2	1:J:140:VAL:HG23	1.87	0.56
1:J:93:ILE:HG23	1:J:293:TRP:NE1	2.20	0.56
1:L:70:SER:O	1:L:71:THR:CB	2.54	0.56
1:L:258:VAL:CG1	1:L:259:ALA:H	2.16	0.56
1:O:123:ASP:CG	1:O:126:SER:H	2.08	0.56
1:O:191:CYS:HG	1:O:244:CYS:CB	2.19	0.56
1:P:70:SER:O	1:P:71:THR:HB	2.05	0.56
1:Q:191:CYS:HG	1:Q:244:CYS:CB	2.18	0.56
1:B:144:TYR:HD1	1:B:265:GLY:HA3	1.71	0.55
1:H:237:LEU:HD21	1:H:246:ILE:CD1	2.36	0.55
1:I:144:TYR:HD1	1:I:265:GLY:HA3	1.71	0.55
1:K:84:TYR:HB2	1:K:140:VAL:HG23	1.87	0.55
1:K:127:PHE:CZ	1:K:159:ILE:HD11	2.41	0.55
1:K:237:LEU:HD21	1:K:246:ILE:CD1	2.36	0.55
1:L:144:TYR:HD1	1:L:265:GLY:HA3	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:275:PRO:CD	1:O:276:THR:N	2.66	0.55
1:B:72:GLN:C	1:B:76:PHE:CD1	2.71	0.55
1:F:84:TYR:HB2	1:F:140:VAL:HG23	1.87	0.55
1:F:150:LEU:HD22	1:G:289:TRP:C	2.21	0.55
1:F:162:GLU:OE1	1:F:162:GLU:HA	2.07	0.55
1:F:262:GLN:HE22	1:F:267:ASP:HB3	1.69	0.55
1:G:70:SER:O	1:G:71:THR:HB	2.06	0.55
1:I:72:GLN:CB	1:I:76:PHE:CE1	2.70	0.55
1:J:251:LYS:O	1:J:252:LEU:CB	2.46	0.55
1:K:162:GLU:HB2	1:K:253:GLY:C	2.24	0.55
1:L:72:GLN:C	1:L:76:PHE:CD1	2.71	0.55
1:L:237:LEU:HD21	1:L:246:ILE:CD1	2.36	0.55
1:M:162:GLU:HA	1:M:162:GLU:OE1	2.07	0.55
1:P:272:THR:HG21	1:P:277:THR:CG2	2.37	0.55
1:Q:174:TYR:CD1	1:Q:198:LEU:HD11	2.34	0.55
1:Q:272:THR:HG21	1:Q:277:THR:CG2	2.37	0.55
1:B:75:THR:HG23	1:B:79:SER:OG	2.07	0.55
1:B:84:TYR:HB2	1:B:140:VAL:HG23	1.87	0.55
1:B:197:PRO:HG2	1:B:205:ILE:HG22	1.89	0.55
1:G:134:TYR:CD1	1:O:167:PRO:HD3	1.91	0.55
1:G:174:TYR:CD1	1:G:198:LEU:HD13	2.35	0.55
1:G:197:PRO:HG2	1:G:205:ILE:HG22	1.88	0.55
1:H:307:ILE:HD13	1:H:310:MET:HE1	1.88	0.55
1:I:272:THR:HG21	1:I:277:THR:HG22	1.89	0.55
1:J:197:PRO:HG2	1:J:205:ILE:HG22	1.89	0.55
1:K:272:THR:HG21	1:K:277:THR:CG2	2.37	0.55
1:L:168:MET:CE	1:L:175:TYR:CE2	2.78	0.55
1:M:72:GLN:C	1:M:76:PHE:CD1	2.71	0.55
1:N:76:PHE:CD2	1:N:110:GLY:O	2.60	0.55
1:O:109:LYS:HG3	1:O:300:VAL:O	2.06	0.55
1:B:272:THR:HG21	1:B:277:THR:CG2	2.37	0.55
1:F:76:PHE:CD2	1:F:110:GLY:O	2.60	0.55
1:F:272:THR:HG21	1:F:277:THR:HG22	1.89	0.55
1:F:290:LYS:HE2	1:H:150:LEU:CG	2.37	0.55
1:G:126:SER:CA	1:G:223:LYS:HZ1	2.08	0.55
1:G:272:THR:HG21	1:G:277:THR:CG2	2.37	0.55
1:H:70:SER:O	1:H:71:THR:HB	2.07	0.55
1:H:162:GLU:OE1	1:H:162:GLU:HA	2.07	0.55
1:H:197:PRO:HG2	1:H:205:ILE:HG22	1.89	0.55
1:H:272:THR:HG21	1:H:277:THR:CG2	2.37	0.55
1:K:109:LYS:HG3	1:K:300:VAL:O	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:150:LEU:CG	1:M:290:LYS:HE2	2.37	0.55
1:L:174:TYR:CD1	1:L:198:LEU:HD11	2.34	0.55
1:M:109:LYS:HG3	1:M:300:VAL:O	2.06	0.55
1:M:123:ASP:CG	1:M:126:SER:H	2.08	0.55
1:M:127:PHE:CZ	1:M:159:ILE:HD11	2.41	0.55
1:N:162:GLU:OE1	1:N:162:GLU:HA	2.07	0.55
1:B:127:PHE:CZ	1:B:159:ILE:HD11	2.41	0.55
1:F:144:TYR:HD2	1:F:144:TYR:C	2.06	0.55
1:G:109:LYS:HG3	1:G:300:VAL:O	2.06	0.55
1:J:109:LYS:HG3	1:J:300:VAL:O	2.06	0.55
1:K:108:THR:CG2	1:K:109:LYS:N	2.69	0.55
1:K:197:PRO:O	1:K:205:ILE:HG22	2.06	0.55
1:L:70:SER:O	1:L:71:THR:HB	2.07	0.55
1:L:272:THR:HG21	1:L:277:THR:HG22	1.89	0.55
1:N:108:THR:CG2	1:N:109:LYS:N	2.69	0.55
1:O:108:THR:CG2	1:O:109:LYS:N	2.69	0.55
1:O:197:PRO:O	1:O:205:ILE:HG22	2.06	0.55
1:O:272:THR:HG21	1:O:277:THR:CG2	2.37	0.55
1:O:289:TRP:C	1:Q:150:LEU:HD22	2.21	0.55
1:P:78:THR:O	1:P:78:THR:HG22	2.06	0.55
1:Q:109:LYS:HG3	1:Q:300:VAL:O	2.06	0.55
1:B:108:THR:CG2	1:B:109:LYS:N	2.69	0.55
1:F:144:TYR:HD1	1:F:265:GLY:HA3	1.71	0.55
1:I:70:SER:O	1:I:71:THR:CB	2.55	0.55
1:L:197:PRO:HG2	1:L:205:ILE:HG22	1.89	0.55
1:P:127:PHE:CZ	1:P:159:ILE:HD11	2.41	0.55
1:G:72:GLN:CB	1:G:76:PHE:CE1	2.70	0.55
1:G:158:LEU:CD1	1:G:224:LEU:CD1	2.83	0.55
1:G:277:THR:HG23	1:G:278:ALA:N	2.22	0.55
1:I:72:GLN:C	1:I:76:PHE:CD1	2.71	0.55
1:K:162:GLU:OE1	1:K:162:GLU:HA	2.07	0.55
1:K:174:TYR:HD1	1:K:198:LEU:HD12	1.63	0.55
1:K:197:PRO:HG2	1:K:205:ILE:HG22	1.89	0.55
1:L:72:GLN:CB	1:L:76:PHE:CE1	2.70	0.55
1:O:290:LYS:HE2	1:Q:150:LEU:CG	2.37	0.55
1:P:76:PHE:CD2	1:P:110:GLY:O	2.60	0.55
1:Q:93:ILE:HG23	1:Q:293:TRP:NE1	2.20	0.55
1:B:174:TYR:CD1	1:B:198:LEU:HD11	2.34	0.55
1:F:150:LEU:CG	1:G:290:LYS:HE2	2.37	0.55
1:F:158:LEU:CD1	1:F:224:LEU:CD1	2.83	0.55
1:F:272:THR:HG21	1:F:277:THR:CG2	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:197:PRO:O	1:G:205:ILE:HG22	2.06	0.55
1:I:109:LYS:HG3	1:I:300:VAL:O	2.06	0.55
1:I:125:ALA:C	1:I:223:LYS:HZ2	2.09	0.55
1:I:290:LYS:HE2	1:K:150:LEU:CG	2.37	0.55
1:J:70:SER:O	1:J:71:THR:HB	2.05	0.55
1:L:277:THR:HG23	1:L:278:ALA:N	2.22	0.55
1:N:197:PRO:O	1:N:205:ILE:HG22	2.06	0.55
1:F:70:SER:O	1:F:71:THR:HB	2.07	0.55
1:F:126:SER:CA	1:F:223:LYS:HZ1	2.08	0.55
1:H:108:THR:CG2	1:H:109:LYS:N	2.69	0.55
1:I:197:PRO:O	1:I:205:ILE:HG22	2.06	0.55
1:J:180:GLU:HG3	1:J:180:GLU:O	2.07	0.55
1:K:144:TYR:HD1	1:K:265:GLY:HA3	1.71	0.55
1:P:142:MET:HE1	1:P:152:MET:CE	2.25	0.55
1:P:144:TYR:HD1	1:P:265:GLY:HA3	1.71	0.55
1:Q:75:THR:CG2	1:Q:79:SER:OG	2.55	0.55
1:B:109:LYS:HG3	1:B:300:VAL:O	2.06	0.55
1:G:108:THR:CG2	1:G:109:LYS:N	2.69	0.55
1:I:258:VAL:CG1	1:I:259:ALA:H	2.16	0.55
1:L:127:PHE:CZ	1:L:159:ILE:HD11	2.40	0.55
1:L:290:LYS:HE2	1:N:150:LEU:CG	2.37	0.55
1:M:272:THR:HG21	1:M:277:THR:CG2	2.37	0.55
1:O:150:LEU:CG	1:P:290:LYS:HE2	2.37	0.55
1:P:109:LYS:HG3	1:P:300:VAL:O	2.06	0.55
1:P:162:GLU:OE1	1:P:162:GLU:HA	2.06	0.55
1:Q:197:PRO:HG2	1:Q:205:ILE:HG22	1.88	0.55
1:B:72:GLN:CB	1:B:76:PHE:CE1	2.70	0.54
1:G:79:SER:CA	1:G:80:THR:N	2.67	0.54
1:G:144:TYR:HD1	1:G:265:GLY:HA3	1.71	0.54
1:J:150:LEU:HD22	1:K:289:TRP:C	2.21	0.54
1:J:237:LEU:HD21	1:J:246:ILE:CD1	2.36	0.54
1:J:272:THR:HG21	1:J:277:THR:CG2	2.37	0.54
1:L:104:GLN:HB3	1:N:205:ILE:HD11	1.88	0.54
1:L:162:GLU:OE1	1:L:162:GLU:HA	2.07	0.54
1:N:272:THR:HG21	1:N:277:THR:CG2	2.37	0.54
1:O:197:PRO:HG2	1:O:205:ILE:HG22	1.88	0.54
1:O:272:THR:HG21	1:O:277:THR:HG22	1.89	0.54
1:P:142:MET:HE1	1:P:152:MET:HB3	1.89	0.54
1:Q:158:LEU:CD1	1:Q:224:LEU:CD1	2.83	0.54
1:B:76:PHE:CD2	1:B:110:GLY:O	2.60	0.54
1:B:159:ILE:HG23	1:B:258:VAL:CG2	2.11	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:GLU:HB2	1:B:253:GLY:O	2.07	0.54
1:F:191:CYS:HG	1:F:244:CYS:CB	2.20	0.54
1:G:208:LEU:C	1:G:210:THR:H	2.08	0.54
1:H:109:LYS:HG3	1:H:300:VAL:O	2.06	0.54
1:J:162:GLU:HA	1:J:162:GLU:OE1	2.07	0.54
1:K:159:ILE:HG23	1:K:258:VAL:CG2	2.11	0.54
1:N:197:PRO:HG2	1:N:205:ILE:HG22	1.88	0.54
1:P:72:GLN:C	1:P:76:PHE:CD1	2.71	0.54
1:P:108:THR:CG2	1:P:109:LYS:N	2.69	0.54
1:P:272:THR:HG21	1:P:277:THR:HG22	1.89	0.54
1:P:307:ILE:HA	1:P:310:MET:HE3	1.88	0.54
1:Q:108:THR:CG2	1:Q:109:LYS:N	2.69	0.54
1:Q:162:GLU:OE1	1:Q:162:GLU:HA	2.07	0.54
1:Q:277:THR:HG23	1:Q:278:ALA:N	2.22	0.54
1:B:258:VAL:CG1	1:B:259:ALA:H	2.16	0.54
1:F:128:SER:CB	1:F:155:LEU:CD1	2.63	0.54
1:F:150:LEU:O	1:F:154:GLU:HG3	2.08	0.54
1:H:70:SER:O	1:H:71:THR:CB	2.54	0.54
1:I:70:SER:O	1:I:71:THR:HB	2.07	0.54
1:I:73:GLU:O	1:I:73:GLU:CG	2.53	0.54
1:J:125:ALA:C	1:J:223:LYS:HZ2	2.10	0.54
1:J:150:LEU:CG	1:K:290:LYS:HE2	2.37	0.54
1:L:174:TYR:HD1	1:L:198:LEU:HD12	1.63	0.54
1:M:150:LEU:CG	1:N:290:LYS:HE2	2.37	0.54
1:O:76:PHE:CD2	1:O:110:GLY:O	2.60	0.54
1:Q:70:SER:O	1:Q:71:THR:CB	2.55	0.54
1:F:197:PRO:HG2	1:F:205:ILE:HG22	1.88	0.54
1:G:150:LEU:CG	1:H:290:LYS:HE2	2.37	0.54
1:H:125:ALA:C	1:H:223:LYS:HZ2	2.10	0.54
1:I:162:GLU:OE1	1:I:162:GLU:HA	2.07	0.54
1:I:275:PRO:CD	1:I:276:THR:N	2.66	0.54
1:K:277:THR:HG23	1:K:278:ALA:N	2.22	0.54
1:L:180:GLU:O	1:L:180:GLU:HG3	2.08	0.54
1:M:150:LEU:O	1:M:154:GLU:HG3	2.08	0.54
1:M:277:THR:HG23	1:M:278:ALA:N	2.22	0.54
1:N:307:ILE:HD13	1:N:310:MET:HE1	1.89	0.54
1:P:180:GLU:HG3	1:P:180:GLU:O	2.07	0.54
1:Q:272:THR:HG21	1:Q:277:THR:HG22	1.89	0.54
1:B:87:THR:HG1	1:B:122:THR:HG22	1.71	0.54
1:F:175:TYR:HD1	1:F:184:TRP:CZ2	2.26	0.54
1:G:162:GLU:HB2	1:G:253:GLY:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:144:TYR:CD2	1:H:145:ASP:N	2.69	0.54
1:H:272:THR:HG21	1:H:277:THR:HG22	1.89	0.54
1:I:142:MET:HE1	1:I:152:MET:HB3	1.88	0.54
1:J:76:PHE:CD2	1:J:110:GLY:O	2.60	0.54
1:K:175:TYR:HD1	1:K:184:TRP:CZ2	2.26	0.54
1:M:307:ILE:HA	1:M:310:MET:HE3	1.89	0.54
1:Q:70:SER:O	1:Q:71:THR:HB	2.07	0.54
1:B:251:LYS:O	1:B:252:LEU:CB	2.46	0.54
1:B:272:THR:HG21	1:B:277:THR:HG22	1.89	0.54
1:F:277:THR:HG23	1:F:278:ALA:N	2.22	0.54
1:G:237:LEU:HD21	1:G:246:ILE:CD1	2.36	0.54
1:H:175:TYR:HD1	1:H:184:TRP:CZ2	2.26	0.54
1:H:180:GLU:HG3	1:H:180:GLU:O	2.07	0.54
1:I:150:LEU:CG	1:J:290:LYS:HE2	2.37	0.54
1:I:197:PRO:HG2	1:I:205:ILE:HG22	1.88	0.54
1:I:272:THR:HG21	1:I:277:THR:CG2	2.37	0.54
1:I:277:THR:HG23	1:I:278:ALA:N	2.22	0.54
1:J:277:THR:HG23	1:J:278:ALA:N	2.22	0.54
1:L:272:THR:HG21	1:L:277:THR:CG2	2.37	0.54
1:O:144:TYR:HD1	1:O:265:GLY:HA3	1.71	0.54
1:P:150:LEU:CG	1:Q:290:LYS:HE2	2.37	0.54
1:Q:180:GLU:HG3	1:Q:180:GLU:O	2.07	0.54
1:B:162:GLU:HA	1:B:162:GLU:OE1	2.07	0.54
1:B:174:TYR:HE1	1:B:234:ASN:HB2	1.72	0.54
1:F:180:GLU:HG3	1:F:180:GLU:O	2.07	0.54
1:G:272:THR:HG21	1:G:277:THR:HG22	1.89	0.54
1:I:158:LEU:CD1	1:I:224:LEU:CD1	2.83	0.54
1:I:175:TYR:HD1	1:I:184:TRP:CZ2	2.25	0.54
1:J:150:LEU:O	1:J:154:GLU:HG3	2.08	0.54
1:J:234:ASN:O	1:J:235:HIS:CD2	2.60	0.54
1:K:272:THR:HG21	1:K:277:THR:HG22	1.89	0.54
1:M:76:PHE:CD2	1:M:110:GLY:O	2.60	0.54
1:M:175:TYR:HD1	1:M:184:TRP:CZ2	2.26	0.54
1:O:150:LEU:O	1:O:154:GLU:HG3	2.08	0.54
1:O:175:TYR:HD1	1:O:184:TRP:CZ2	2.26	0.54
1:Q:144:TYR:HD1	1:Q:265:GLY:HA3	1.72	0.54
1:G:150:LEU:O	1:G:154:GLU:HG3	2.08	0.54
1:G:175:TYR:HD1	1:G:184:TRP:CZ2	2.26	0.54
1:H:277:THR:HG23	1:H:278:ALA:N	2.22	0.54
1:J:272:THR:HG21	1:J:277:THR:HG22	1.89	0.54
1:L:76:PHE:CD2	1:L:110:GLY:O	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:197:PRO:HG2	1:M:205:ILE:HG22	1.88	0.54
1:N:150:LEU:O	1:N:154:GLU:HG3	2.08	0.54
1:O:234:ASN:O	1:O:235:HIS:CD2	2.60	0.54
1:P:197:PRO:HG2	1:P:205:ILE:HG22	1.88	0.54
1:P:237:LEU:HD21	1:P:246:ILE:CD1	2.36	0.54
1:Q:150:LEU:O	1:Q:154:GLU:HG3	2.08	0.54
1:B:158:LEU:CD1	1:B:224:LEU:CD1	2.83	0.54
1:B:174:TYR:HD1	1:B:198:LEU:HD12	1.63	0.54
1:B:180:GLU:HG3	1:B:180:GLU:O	2.07	0.54
1:H:234:ASN:O	1:H:235:HIS:CD2	2.60	0.54
1:K:76:PHE:CD2	1:K:110:GLY:O	2.60	0.54
1:L:174:TYR:CD1	1:L:198:LEU:HD13	2.35	0.54
1:N:180:GLU:HG3	1:N:180:GLU:O	2.07	0.54
1:O:162:GLU:OE1	1:O:162:GLU:HA	2.07	0.54
1:P:277:THR:HG23	1:P:278:ALA:N	2.22	0.54
1:F:72:GLN:C	1:F:76:PHE:CE1	2.82	0.54
1:H:76:PHE:CD2	1:H:110:GLY:O	2.60	0.54
1:L:228:ASP:O	1:M:294:GLN:NE2	2.41	0.54
1:M:144:TYR:HD1	1:M:265:GLY:HA3	1.71	0.54
1:N:251:LYS:O	1:N:252:LEU:CB	2.46	0.54
1:O:180:GLU:HG3	1:O:180:GLU:O	2.07	0.54
1:Q:76:PHE:CD2	1:Q:110:GLY:O	2.60	0.54
1:G:228:ASP:O	1:H:294:GLN:NE2	2.41	0.53
1:I:76:PHE:CD2	1:I:110:GLY:O	2.60	0.53
1:J:307:ILE:HA	1:J:310:MET:HE3	1.90	0.53
1:L:234:ASN:O	1:L:235:HIS:CD2	2.60	0.53
1:N:123:ASP:OD1	1:N:126:SER:N	2.40	0.53
1:N:126:SER:HA	1:N:223:LYS:HZ2	1.64	0.53
1:P:72:GLN:C	1:P:76:PHE:CE1	2.82	0.53
1:P:175:TYR:HD1	1:P:184:TRP:CZ2	2.26	0.53
1:Q:72:GLN:C	1:Q:76:PHE:CD1	2.71	0.53
1:Q:234:ASN:O	1:Q:235:HIS:CD2	2.60	0.53
1:B:197:PRO:HA	1:B:235:HIS:CD2	2.44	0.53
1:G:72:GLN:C	1:G:76:PHE:CE1	2.82	0.53
1:I:150:LEU:O	1:I:154:GLU:HG3	2.08	0.53
1:I:205:ILE:HD11	1:J:104:GLN:HB3	1.88	0.53
1:J:128:SER:CB	1:J:155:LEU:CD1	2.63	0.53
1:J:162:GLU:HB2	1:J:253:GLY:O	2.07	0.53
1:K:150:LEU:O	1:K:154:GLU:HG3	2.08	0.53
1:L:150:LEU:O	1:L:154:GLU:HG3	2.08	0.53
1:L:307:ILE:HD13	1:L:310:MET:HE1	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:180:GLU:HG3	1:M:180:GLU:O	2.07	0.53
1:N:162:GLU:HG3	1:N:252:LEU:CD1	2.33	0.53
1:N:272:THR:HG21	1:N:277:THR:HG22	1.89	0.53
1:N:277:THR:HG23	1:N:278:ALA:N	2.22	0.53
1:P:159:ILE:HG23	1:P:258:VAL:CG2	2.11	0.53
1:B:175:TYR:HD1	1:B:184:TRP:CZ2	2.26	0.53
1:B:277:THR:HG23	1:B:278:ALA:N	2.22	0.53
1:I:75:THR:HG23	1:I:79:SER:OG	2.09	0.53
1:N:72:GLN:C	1:N:76:PHE:CD1	2.71	0.53
1:O:197:PRO:HA	1:O:235:HIS:CD2	2.44	0.53
1:O:277:THR:HG23	1:O:278:ALA:N	2.22	0.53
1:Q:307:ILE:HD13	1:Q:310:MET:HE1	1.90	0.53
1:G:76:PHE:CD2	1:G:110:GLY:O	2.60	0.53
1:J:75:THR:HG23	1:J:79:SER:OG	2.09	0.53
1:J:76:PHE:CE2	1:J:109:LYS:O	2.62	0.53
1:J:197:PRO:HA	1:J:235:HIS:CD2	2.44	0.53
1:K:191:CYS:HG	1:K:244:CYS:CB	2.22	0.53
1:M:75:THR:HG23	1:M:79:SER:OG	2.08	0.53
1:M:76:PHE:CE2	1:M:109:LYS:O	2.62	0.53
1:M:162:GLU:HB2	1:M:253:GLY:O	2.07	0.53
1:N:175:TYR:HD1	1:N:184:TRP:CZ2	2.26	0.53
1:P:162:GLU:HB2	1:P:253:GLY:O	2.07	0.53
1:F:170:ILE:HG12	1:F:237:LEU:HD23	1.91	0.53
1:G:180:GLU:HG3	1:G:180:GLU:O	2.07	0.53
1:G:197:PRO:HA	1:G:235:HIS:CD2	2.44	0.53
1:H:72:GLN:C	1:H:76:PHE:CE1	2.82	0.53
1:H:75:THR:HG23	1:H:79:SER:OG	2.09	0.53
1:H:162:GLU:HG3	1:H:252:LEU:CD1	2.33	0.53
1:J:144:TYR:HD1	1:J:265:GLY:HA3	1.73	0.53
1:K:76:PHE:CE2	1:K:109:LYS:O	2.62	0.53
1:L:175:TYR:HD1	1:L:184:TRP:CZ2	2.26	0.53
1:P:123:ASP:OD1	1:P:126:SER:N	2.40	0.53
1:P:197:PRO:HA	1:P:235:HIS:CD2	2.43	0.53
1:Q:72:GLN:C	1:Q:76:PHE:CE1	2.82	0.53
1:B:72:GLN:C	1:B:76:PHE:CE1	2.82	0.53
1:B:234:ASN:O	1:B:235:HIS:CD2	2.60	0.53
1:F:76:PHE:CE2	1:F:109:LYS:O	2.62	0.53
1:G:162:GLU:OE1	1:G:162:GLU:HA	2.07	0.53
1:H:150:LEU:O	1:H:154:GLU:HG3	2.08	0.53
1:I:180:GLU:O	1:I:180:GLU:HG3	2.07	0.53
1:M:170:ILE:HG12	1:M:237:LEU:HD23	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:174:TYR:HE1	1:O:234:ASN:HB2	1.72	0.53
1:O:294:GLN:NE2	1:Q:228:ASP:O	2.41	0.53
1:O:307:ILE:HD13	1:O:310:MET:HE1	1.89	0.53
1:Q:76:PHE:CE2	1:Q:109:LYS:O	2.62	0.53
1:Q:175:TYR:HD1	1:Q:184:TRP:CZ2	2.26	0.53
1:Q:197:PRO:HA	1:Q:235:HIS:CD2	2.44	0.53
1:J:72:GLN:CB	1:J:76:PHE:CE1	2.70	0.53
1:J:175:TYR:HD1	1:J:184:TRP:CZ2	2.26	0.53
1:K:307:ILE:HD13	1:K:310:MET:HE1	1.90	0.53
1:N:72:GLN:C	1:N:76:PHE:CE1	2.82	0.53
1:O:174:TYR:CD1	1:O:198:LEU:HD11	2.34	0.53
1:P:150:LEU:HD22	1:Q:289:TRP:C	2.21	0.53
1:P:150:LEU:O	1:P:154:GLU:HG3	2.08	0.53
1:Q:237:LEU:HD21	1:Q:246:ILE:CD1	2.36	0.53
1:B:170:ILE:HG12	1:B:237:LEU:HD23	1.91	0.53
1:I:123:ASP:OD1	1:I:126:SER:N	2.40	0.53
1:I:162:GLU:HB2	1:I:253:GLY:O	2.07	0.53
1:K:180:GLU:HG3	1:K:180:GLU:O	2.07	0.53
1:N:170:ILE:HG12	1:N:237:LEU:HD23	1.91	0.53
1:O:72:GLN:C	1:O:76:PHE:CD1	2.71	0.53
1:O:76:PHE:CE2	1:O:109:LYS:O	2.62	0.53
1:O:170:ILE:HG12	1:O:237:LEU:HD23	1.91	0.53
1:P:76:PHE:CE2	1:P:109:LYS:O	2.62	0.53
1:B:150:LEU:O	1:B:154:GLU:HG3	2.08	0.53
1:F:197:PRO:HA	1:F:235:HIS:CD2	2.44	0.53
1:G:81:LEU:HD13	1:G:307:ILE:HD11	1.91	0.53
1:I:289:TRP:C	1:K:150:LEU:HD22	2.21	0.53
1:L:76:PHE:CE2	1:L:109:LYS:O	2.62	0.53
1:L:289:TRP:C	1:N:150:LEU:HD22	2.21	0.53
1:M:197:PRO:HA	1:M:235:HIS:CD2	2.44	0.53
1:M:234:ASN:O	1:M:235:HIS:CD2	2.60	0.53
1:M:237:LEU:HD21	1:M:246:ILE:CD1	2.36	0.53
1:M:272:THR:HG21	1:M:277:THR:HG22	1.89	0.53
1:N:76:PHE:CE2	1:N:109:LYS:O	2.62	0.53
1:O:72:GLN:C	1:O:76:PHE:CE1	2.82	0.53
1:O:81:LEU:HD13	1:O:307:ILE:HD11	1.91	0.53
1:F:294:GLN:NE2	1:H:228:ASP:O	2.41	0.53
1:G:76:PHE:CE2	1:G:109:LYS:O	2.62	0.53
1:G:307:ILE:HD13	1:G:310:MET:HE1	1.91	0.53
1:H:197:PRO:HA	1:H:235:HIS:CD2	2.44	0.53
1:J:72:GLN:C	1:J:76:PHE:CE1	2.82	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:81:LEU:HD13	1:J:307:ILE:HD11	1.91	0.53
1:J:174:TYR:CG	1:J:198:LEU:CD1	2.91	0.53
1:K:251:LYS:HA	1:K:252:LEU:HD23	1.91	0.53
1:L:191:CYS:HG	1:L:244:CYS:CB	2.21	0.53
1:O:162:GLU:HB2	1:O:253:GLY:O	2.07	0.53
1:P:234:ASN:O	1:P:235:HIS:CD2	2.60	0.53
1:B:126:SER:HA	1:B:223:LYS:HZ2	1.68	0.52
1:F:205:ILE:HD11	1:G:104:GLN:HB3	1.88	0.52
1:H:158:LEU:CD1	1:H:224:LEU:CD1	2.83	0.52
1:I:72:GLN:C	1:I:76:PHE:CE1	2.82	0.52
1:J:205:ILE:HD11	1:K:104:GLN:HB3	1.88	0.52
1:K:72:GLN:C	1:K:76:PHE:CE1	2.82	0.52
1:N:81:LEU:HD13	1:N:307:ILE:HD11	1.91	0.52
1:N:197:PRO:HA	1:N:235:HIS:CD2	2.44	0.52
1:O:82:CYS:HG	1:O:135:CYS:CB	2.18	0.52
1:Q:275:PRO:CD	1:Q:276:THR:H	2.22	0.52
1:G:170:ILE:HG12	1:G:237:LEU:HD23	1.91	0.52
1:J:142:MET:HE1	1:J:152:MET:HB3	1.92	0.52
1:K:168:MET:HE2	1:K:175:TYR:CG	2.44	0.52
1:K:285:MET:HG3	1:K:286:ARG:H	1.74	0.52
1:L:81:LEU:HD13	1:L:307:ILE:HD11	1.91	0.52
1:L:197:PRO:HA	1:L:235:HIS:CD2	2.44	0.52
1:B:81:LEU:HD13	1:B:307:ILE:HD11	1.91	0.52
1:I:76:PHE:CE2	1:I:109:LYS:O	2.62	0.52
1:I:197:PRO:HA	1:I:235:HIS:CD2	2.44	0.52
1:J:251:LYS:HA	1:J:252:LEU:HD23	1.92	0.52
1:K:81:LEU:HD13	1:K:307:ILE:HD11	1.91	0.52
1:K:197:PRO:HA	1:K:235:HIS:CD2	2.44	0.52
1:L:72:GLN:C	1:L:76:PHE:CE1	2.82	0.52
1:L:125:ALA:C	1:L:223:LYS:HZ2	2.13	0.52
1:L:158:LEU:CD1	1:L:224:LEU:CD1	2.83	0.52
1:L:170:ILE:HG12	1:L:237:LEU:HD23	1.91	0.52
1:N:251:LYS:HA	1:N:252:LEU:HD23	1.92	0.52
1:O:126:SER:HA	1:O:223:LYS:HZ2	1.71	0.52
1:O:158:LEU:CD1	1:O:224:LEU:CD1	2.83	0.52
1:O:276:THR:CA	1:P:285:MET:HE3	1.98	0.52
1:Q:263:VAL:CG1	1:Q:289:TRP:HB2	2.40	0.52
1:G:174:TYR:CG	1:G:198:LEU:CD1	2.91	0.52
1:H:142:MET:HE1	1:H:152:MET:HB3	1.90	0.52
1:I:251:LYS:HA	1:I:252:LEU:HD23	1.92	0.52
1:I:275:PRO:CD	1:I:276:THR:H	2.23	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:167:PRO:HG2	1:L:117:TYR:CD2	2.45	0.52
1:J:167:PRO:HG2	1:L:117:TYR:CE2	2.44	0.52
1:K:162:GLU:HB2	1:K:253:GLY:O	2.07	0.52
1:K:170:ILE:HG12	1:K:237:LEU:HD23	1.91	0.52
1:L:205:ILE:HD11	1:M:104:GLN:HB3	1.88	0.52
1:M:251:LYS:HA	1:M:252:LEU:HD23	1.92	0.52
1:M:275:PRO:CD	1:M:276:THR:H	2.22	0.52
1:O:285:MET:HG3	1:O:286:ARG:H	1.75	0.52
1:G:234:ASN:O	1:G:235:HIS:CD2	2.60	0.52
1:H:76:PHE:CE2	1:H:109:LYS:O	2.62	0.52
1:H:285:MET:HG3	1:H:286:ARG:H	1.74	0.52
1:I:228:ASP:O	1:J:294:GLN:NE2	2.41	0.52
1:J:159:ILE:HG23	1:J:258:VAL:CG2	2.11	0.52
1:K:75:THR:CG2	1:K:79:SER:OG	2.56	0.52
1:L:251:LYS:HA	1:L:252:LEU:HD23	1.92	0.52
1:B:76:PHE:CE2	1:B:109:LYS:O	2.62	0.52
1:F:81:LEU:HD13	1:F:307:ILE:HD11	1.91	0.52
1:I:81:LEU:HD13	1:I:307:ILE:HD11	1.91	0.52
1:I:128:SER:CB	1:I:155:LEU:CD1	2.63	0.52
1:J:170:ILE:HG12	1:J:237:LEU:HD23	1.91	0.52
1:K:87:THR:HG1	1:K:122:THR:HG22	1.74	0.52
1:L:285:MET:HG3	1:L:286:ARG:H	1.75	0.52
1:O:275:PRO:CD	1:O:276:THR:H	2.23	0.52
1:P:75:THR:CG2	1:P:79:SER:OG	2.58	0.52
1:P:81:LEU:HD13	1:P:307:ILE:HD11	1.91	0.52
1:G:275:PRO:CD	1:G:276:THR:H	2.22	0.52
1:H:251:LYS:HA	1:H:252:LEU:HD23	1.92	0.52
1:I:162:GLU:HG3	1:I:252:LEU:CD1	2.33	0.52
1:I:168:MET:HE3	1:I:175:TYR:CG	2.45	0.52
1:I:170:ILE:HG12	1:I:237:LEU:HD23	1.91	0.52
1:M:72:GLN:C	1:M:76:PHE:CE1	2.82	0.52
1:M:123:ASP:OD1	1:M:126:SER:N	2.40	0.52
1:M:205:ILE:HD11	1:N:104:GLN:HB3	1.88	0.52
1:M:285:MET:HG3	1:M:286:ARG:H	1.75	0.52
1:P:170:ILE:HG12	1:P:237:LEU:HD23	1.91	0.52
1:P:275:PRO:CD	1:P:276:THR:H	2.23	0.52
1:Q:168:MET:HE3	1:Q:175:TYR:CG	2.44	0.52
1:B:307:ILE:HD13	1:B:310:MET:HE1	1.92	0.52
1:F:162:GLU:HB2	1:F:253:GLY:O	2.07	0.52
1:H:170:ILE:HG12	1:H:237:LEU:HD23	1.91	0.52
1:J:285:MET:HG3	1:J:286:ARG:H	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:205:ILE:CD1	1:N:104:GLN:CB	2.82	0.52
1:M:228:ASP:O	1:N:294:GLN:NE2	2.41	0.52
1:N:275:PRO:CD	1:N:276:THR:H	2.22	0.52
1:H:307:ILE:HA	1:H:310:MET:HE3	1.91	0.52
1:L:263:VAL:CG1	1:L:289:TRP:HB2	2.40	0.52
1:N:174:TYR:HD1	1:N:198:LEU:HD12	1.63	0.52
1:B:123:ASP:OD1	1:B:126:SER:N	2.40	0.52
1:H:81:LEU:HD13	1:H:307:ILE:HD11	1.91	0.52
1:I:205:ILE:CD1	1:J:104:GLN:CB	2.81	0.52
1:Q:170:ILE:HG12	1:Q:237:LEU:HD23	1.91	0.52
1:H:263:VAL:CG1	1:H:289:TRP:HB2	2.40	0.51
1:I:174:TYR:HD1	1:I:198:LEU:HD12	1.63	0.51
1:I:208:LEU:O	1:I:210:THR:N	2.44	0.51
1:I:285:MET:HE3	1:K:276:THR:CA	1.99	0.51
1:N:285:MET:HG3	1:N:286:ARG:H	1.75	0.51
1:P:128:SER:HB2	1:P:224:LEU:HD22	1.93	0.51
1:P:208:LEU:O	1:P:210:THR:N	2.44	0.51
1:Q:81:LEU:HD13	1:Q:307:ILE:HD11	1.91	0.51
1:Q:251:LYS:HA	1:Q:252:LEU:HD23	1.92	0.51
1:B:251:LYS:HA	1:B:252:LEU:HD23	1.92	0.51
1:F:174:TYR:HE1	1:F:234:ASN:HB2	1.72	0.51
1:G:251:LYS:O	1:G:252:LEU:CB	2.46	0.51
1:I:234:ASN:O	1:I:235:HIS:CD2	2.60	0.51
1:M:72:GLN:CB	1:M:76:PHE:CE1	2.70	0.51
1:P:251:LYS:HA	1:P:252:LEU:HD23	1.92	0.51
1:I:128:SER:HB2	1:I:224:LEU:HD22	1.92	0.51
1:M:81:LEU:HD13	1:M:307:ILE:HD11	1.91	0.51
1:M:263:VAL:CG1	1:M:289:TRP:HB2	2.40	0.51
1:N:174:TYR:CG	1:N:198:LEU:CD1	2.91	0.51
1:P:125:ALA:C	1:P:223:LYS:HZ2	2.13	0.51
1:B:162:GLU:HG3	1:B:252:LEU:CD1	2.33	0.51
1:F:75:THR:HG23	1:F:79:SER:OG	2.11	0.51
1:F:142:MET:HE1	1:F:152:MET:HB3	1.91	0.51
1:G:208:LEU:O	1:G:210:THR:N	2.44	0.51
1:J:275:PRO:CD	1:J:276:THR:H	2.23	0.51
1:K:158:LEU:CD1	1:K:224:LEU:CD1	2.83	0.51
1:L:208:LEU:O	1:L:210:THR:N	2.44	0.51
1:M:208:LEU:O	1:M:210:THR:N	2.43	0.51
1:O:144:TYR:CD2	1:O:145:ASP:N	2.69	0.51
1:B:75:THR:CG2	1:B:79:SER:OG	2.59	0.51
1:G:168:MET:CE	1:G:175:TYR:CE2	2.78	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:159:ILE:HG23	1:I:258:VAL:CG2	2.11	0.51
1:I:258:VAL:HG13	1:I:259:ALA:H	1.76	0.51
1:K:123:ASP:OD1	1:K:126:SER:N	2.40	0.51
1:K:263:VAL:CG1	1:K:289:TRP:HB2	2.40	0.51
1:L:174:TYR:HE1	1:L:234:ASN:HB2	1.72	0.51
1:O:128:SER:HB2	1:O:224:LEU:HD22	1.93	0.51
1:G:128:SER:HB2	1:G:224:LEU:HD22	1.93	0.51
1:M:158:LEU:CD1	1:M:224:LEU:CD1	2.83	0.51
1:Q:87:THR:HG1	1:Q:122:THR:HG22	1.74	0.51
1:B:263:VAL:CG1	1:B:289:TRP:HB2	2.40	0.51
1:H:174:TYR:CD1	1:H:198:LEU:HD13	2.35	0.51
1:H:208:LEU:O	1:H:210:THR:N	2.44	0.51
1:H:258:VAL:HG13	1:H:259:ALA:H	1.76	0.51
1:J:158:LEU:CD1	1:J:224:LEU:CD1	2.83	0.51
1:N:85:TYR:CE1	1:N:120:GLU:HG2	2.46	0.51
1:N:208:LEU:O	1:N:210:THR:N	2.44	0.51
1:O:143:LYS:HG2	1:O:263:VAL:HB	1.93	0.51
1:O:208:LEU:O	1:O:210:THR:N	2.44	0.51
1:P:85:TYR:CE1	1:P:120:GLU:HG2	2.46	0.51
1:P:174:TYR:CG	1:P:198:LEU:CD1	2.91	0.51
1:Q:174:TYR:CD1	1:Q:198:LEU:HD13	2.35	0.51
1:B:85:TYR:CE1	1:B:120:GLU:HG2	2.46	0.51
1:F:85:TYR:CE1	1:F:120:GLU:HG2	2.46	0.51
1:K:128:SER:HB2	1:K:224:LEU:HD22	1.93	0.51
1:K:208:LEU:O	1:K:210:THR:N	2.44	0.51
1:N:158:LEU:CD1	1:N:224:LEU:CD1	2.83	0.51
1:N:307:ILE:HA	1:N:310:MET:HE3	1.93	0.51
1:O:123:ASP:OD1	1:O:126:SER:N	2.40	0.51
1:P:258:VAL:HG13	1:P:259:ALA:H	1.76	0.51
1:Q:174:TYR:CG	1:Q:198:LEU:CD1	2.91	0.51
1:B:258:VAL:HG13	1:B:259:ALA:H	1.76	0.51
1:F:143:LYS:HG2	1:F:263:VAL:HB	1.93	0.51
1:F:263:VAL:CG1	1:F:289:TRP:HB2	2.40	0.51
1:F:285:MET:HG3	1:F:286:ARG:H	1.75	0.51
1:G:285:MET:HG3	1:G:286:ARG:H	1.75	0.51
1:H:275:PRO:CD	1:H:276:THR:H	2.22	0.51
1:J:133:LEU:HD12	1:J:255:ARG:HH21	1.76	0.51
1:K:275:PRO:CD	1:K:276:THR:H	2.23	0.51
1:L:275:PRO:CD	1:L:276:THR:H	2.22	0.51
1:M:128:SER:HB2	1:M:224:LEU:HD22	1.93	0.51
1:O:307:ILE:HA	1:O:310:MET:HE3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:285:MET:HG3	1:P:286:ARG:H	1.75	0.51
1:Q:143:LYS:HG2	1:Q:263:VAL:HB	1.93	0.51
1:B:133:LEU:HD12	1:B:255:ARG:HH21	1.76	0.51
1:B:143:LYS:HG2	1:B:263:VAL:HB	1.93	0.51
1:B:285:MET:HG3	1:B:286:ARG:H	1.75	0.51
1:G:133:LEU:HD12	1:G:255:ARG:HH21	1.76	0.51
1:H:128:SER:HB2	1:H:224:LEU:HD22	1.93	0.51
1:L:128:SER:HB2	1:L:224:LEU:HD22	1.93	0.51
1:N:128:SER:HB2	1:N:224:LEU:HD22	1.93	0.51
1:N:143:LYS:HG2	1:N:263:VAL:HB	1.93	0.51
1:N:174:TYR:HE1	1:N:234:ASN:HB2	1.72	0.51
1:O:162:GLU:HG3	1:O:252:LEU:CD1	2.33	0.51
1:O:205:ILE:HD11	1:P:104:GLN:HB3	1.88	0.51
1:B:127:PHE:CD2	1:B:155:LEU:CD2	2.64	0.50
1:B:275:PRO:CD	1:B:276:THR:H	2.23	0.50
1:J:85:TYR:CE1	1:J:120:GLU:HG2	2.46	0.50
1:J:128:SER:HB2	1:J:224:LEU:HD22	1.93	0.50
1:L:144:TYR:CD2	1:L:145:ASP:N	2.68	0.50
1:M:174:TYR:HE1	1:M:234:ASN:HB2	1.72	0.50
1:M:174:TYR:HD1	1:M:198:LEU:HD12	1.63	0.50
1:P:133:LEU:HD12	1:P:255:ARG:HH21	1.76	0.50
1:Q:85:TYR:CE1	1:Q:120:GLU:HG2	2.46	0.50
1:Q:208:LEU:O	1:Q:210:THR:N	2.43	0.50
1:F:174:TYR:CG	1:F:198:LEU:CD1	2.91	0.50
1:F:275:PRO:CD	1:F:276:THR:H	2.22	0.50
1:H:162:GLU:HB2	1:H:253:GLY:O	2.07	0.50
1:I:285:MET:HG3	1:I:286:ARG:H	1.74	0.50
1:L:85:TYR:CE1	1:L:120:GLU:HG2	2.46	0.50
1:M:85:TYR:CE1	1:M:120:GLU:HG2	2.46	0.50
1:M:162:GLU:HG3	1:M:252:LEU:CD1	2.33	0.50
1:O:228:ASP:O	1:P:294:GLN:NE2	2.41	0.50
1:O:263:VAL:CG1	1:O:289:TRP:HB2	2.40	0.50
1:Q:123:ASP:OD1	1:Q:126:SER:N	2.40	0.50
1:B:142:MET:HE1	1:B:152:MET:HB3	1.93	0.50
1:B:208:LEU:O	1:B:210:THR:N	2.44	0.50
1:F:162:GLU:HG3	1:F:252:LEU:CD1	2.33	0.50
1:G:251:LYS:HA	1:G:252:LEU:HD23	1.92	0.50
1:G:275:PRO:HD2	1:G:276:THR:H	1.77	0.50
1:I:170:ILE:CD1	1:I:239:VAL:HB	2.42	0.50
1:K:162:GLU:HG3	1:K:252:LEU:CD1	2.33	0.50
1:M:174:TYR:CG	1:M:198:LEU:CD1	2.91	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:275:PRO:HD2	1:M:276:THR:H	1.77	0.50
1:O:133:LEU:HD12	1:O:255:ARG:HH21	1.76	0.50
1:P:143:LYS:HA	1:P:263:VAL:O	2.12	0.50
1:P:158:LEU:CD1	1:P:224:LEU:CD1	2.83	0.50
1:P:228:ASP:O	1:Q:294:GLN:NE2	2.41	0.50
1:P:263:VAL:CG1	1:P:289:TRP:HB2	2.40	0.50
1:Q:143:LYS:HA	1:Q:263:VAL:O	2.12	0.50
1:B:128:SER:HB2	1:B:224:LEU:HD22	1.93	0.50
1:F:143:LYS:HA	1:F:263:VAL:O	2.12	0.50
1:G:85:TYR:CE1	1:G:120:GLU:HG2	2.46	0.50
1:H:174:TYR:HE1	1:H:234:ASN:HB2	1.72	0.50
1:I:143:LYS:HA	1:I:263:VAL:O	2.12	0.50
1:I:263:VAL:CG1	1:I:289:TRP:HB2	2.40	0.50
1:I:276:THR:CA	1:J:285:MET:HE3	1.95	0.50
1:J:311:SER:O	1:J:312:LYS:CB	2.60	0.50
1:K:143:LYS:HG2	1:K:263:VAL:HB	1.93	0.50
1:L:143:LYS:HG2	1:L:263:VAL:HB	1.93	0.50
1:L:258:VAL:HG13	1:L:259:ALA:H	1.76	0.50
1:N:143:LYS:HA	1:N:263:VAL:O	2.12	0.50
1:N:170:ILE:CD1	1:N:239:VAL:HB	2.42	0.50
1:N:263:VAL:CG1	1:N:289:TRP:HB2	2.40	0.50
1:O:251:LYS:HA	1:O:252:LEU:HD23	1.92	0.50
1:Q:251:LYS:CA	1:Q:252:LEU:HD23	2.42	0.50
1:Q:285:MET:HG3	1:Q:286:ARG:H	1.74	0.50
1:F:123:ASP:OD1	1:F:126:SER:N	2.40	0.50
1:F:170:ILE:CD1	1:F:239:VAL:HB	2.42	0.50
1:F:251:LYS:O	1:F:252:LEU:CB	2.46	0.50
1:G:174:TYR:HE1	1:G:234:ASN:HB2	1.72	0.50
1:G:205:ILE:HD11	1:H:104:GLN:HB3	1.88	0.50
1:J:142:MET:HE1	1:J:152:MET:CE	2.26	0.50
1:J:162:GLU:HG3	1:J:252:LEU:CD1	2.33	0.50
1:K:170:ILE:CD1	1:K:239:VAL:HB	2.42	0.50
1:K:307:ILE:HA	1:K:310:MET:HE3	1.94	0.50
1:L:162:GLU:HB2	1:L:253:GLY:O	2.07	0.50
1:N:275:PRO:HD2	1:N:276:THR:H	1.77	0.50
1:P:251:LYS:CA	1:P:252:LEU:HD23	2.42	0.50
1:F:311:SER:O	1:F:312:LYS:CB	2.60	0.50
1:G:143:LYS:HA	1:G:263:VAL:O	2.12	0.50
1:I:85:TYR:CE1	1:I:120:GLU:HG2	2.46	0.50
1:J:208:LEU:O	1:J:210:THR:N	2.44	0.50
1:L:123:ASP:OD1	1:L:126:SER:N	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:251:LYS:CA	1:L:252:LEU:HD23	2.42	0.50
1:M:133:LEU:HD12	1:M:255:ARG:HH21	1.76	0.50
1:M:191:CYS:HG	1:M:244:CYS:CB	2.23	0.50
1:O:128:SER:CB	1:O:155:LEU:CD1	2.63	0.50
1:O:174:TYR:CG	1:O:198:LEU:CD1	2.91	0.50
1:O:258:VAL:HG13	1:O:259:ALA:H	1.76	0.50
1:F:251:LYS:HA	1:F:252:LEU:HD23	1.92	0.50
1:G:143:LYS:HG2	1:G:263:VAL:HB	1.93	0.50
1:H:85:TYR:CE1	1:H:120:GLU:HG2	2.46	0.50
1:L:294:GLN:NE2	1:N:228:ASP:O	2.41	0.50
1:O:275:PRO:HD2	1:O:276:THR:H	1.77	0.50
1:Q:128:SER:HB2	1:Q:224:LEU:HD22	1.93	0.50
1:F:104:GLN:HB3	1:H:205:ILE:HD11	1.88	0.50
1:F:133:LEU:HD12	1:F:255:ARG:HH21	1.76	0.50
1:F:285:MET:HE1	1:H:276:THR:O	2.12	0.50
1:I:251:LYS:CA	1:I:252:LEU:HD23	2.42	0.50
1:K:133:LEU:HD12	1:K:255:ARG:HH21	1.76	0.50
1:K:251:LYS:CA	1:K:252:LEU:HD23	2.42	0.50
1:M:78:THR:O	1:M:78:THR:CG2	2.59	0.50
1:M:258:VAL:HG13	1:M:259:ALA:H	1.76	0.50
1:N:208:LEU:C	1:N:210:THR:N	2.66	0.50
1:P:170:ILE:CD1	1:P:239:VAL:HB	2.42	0.50
1:F:228:ASP:O	1:G:294:GLN:NE2	2.41	0.50
1:G:208:LEU:C	1:G:210:THR:N	2.66	0.50
1:H:159:ILE:HG23	1:H:258:VAL:CG2	2.11	0.50
1:I:143:LYS:HG2	1:I:263:VAL:HB	1.93	0.50
1:J:123:ASP:OD1	1:J:126:SER:N	2.40	0.50
1:J:228:ASP:O	1:K:294:GLN:NE2	2.41	0.50
1:O:251:LYS:CA	1:O:252:LEU:HD23	2.42	0.50
1:P:143:LYS:HG2	1:P:263:VAL:HB	1.93	0.50
1:Q:162:GLU:HG3	1:Q:252:LEU:CD1	2.33	0.50
1:Q:275:PRO:HD2	1:Q:276:THR:H	1.76	0.50
1:B:170:ILE:CD1	1:B:239:VAL:HB	2.42	0.49
1:F:128:SER:HB2	1:F:224:LEU:HD22	1.93	0.49
1:G:78:THR:O	1:G:78:THR:CG2	2.58	0.49
1:H:143:LYS:HA	1:H:263:VAL:O	2.12	0.49
1:H:208:LEU:C	1:H:210:THR:N	2.66	0.49
1:I:294:GLN:NE2	1:K:228:ASP:O	2.41	0.49
1:J:143:LYS:HG2	1:J:263:VAL:HB	1.93	0.49
1:K:174:TYR:CD1	1:K:198:LEU:HD13	2.35	0.49
1:K:174:TYR:HE1	1:K:234:ASN:HB2	1.72	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:307:ILE:HA	1:L:310:MET:HE3	1.94	0.49
1:M:251:LYS:CA	1:M:252:LEU:HD23	2.42	0.49
1:N:234:ASN:O	1:N:235:HIS:CD2	2.60	0.49
1:O:311:SER:O	1:O:312:LYS:CB	2.60	0.49
1:Q:133:LEU:HD12	1:Q:255:ARG:HH21	1.76	0.49
1:F:208:LEU:O	1:F:210:THR:N	2.44	0.49
1:H:170:ILE:CD1	1:H:239:VAL:HB	2.42	0.49
1:L:133:LEU:HD12	1:L:255:ARG:HH21	1.76	0.49
1:M:143:LYS:HA	1:M:263:VAL:O	2.12	0.49
1:M:311:SER:O	1:M:312:LYS:CB	2.60	0.49
1:N:75:THR:HG23	1:N:79:SER:OG	2.12	0.49
1:N:144:TYR:CD2	1:N:145:ASP:N	2.69	0.49
1:O:85:TYR:CE1	1:O:120:GLU:HG2	2.46	0.49
1:P:311:SER:O	1:P:312:LYS:CB	2.60	0.49
1:F:258:VAL:HG13	1:F:259:ALA:H	1.76	0.49
1:I:133:LEU:HD12	1:I:255:ARG:HH21	1.76	0.49
1:I:311:SER:O	1:I:312:LYS:CB	2.60	0.49
1:J:78:THR:O	1:J:78:THR:HG22	2.12	0.49
1:J:258:VAL:HG13	1:J:259:ALA:H	1.76	0.49
1:L:78:THR:O	1:L:78:THR:CG2	2.60	0.49
1:M:170:ILE:CD1	1:M:239:VAL:HB	2.42	0.49
1:Q:170:ILE:CD1	1:Q:239:VAL:HB	2.42	0.49
1:B:143:LYS:HA	1:B:263:VAL:O	2.12	0.49
1:B:158:LEU:HD21	1:B:185:ILE:HG21	1.95	0.49
1:B:208:LEU:C	1:B:210:THR:N	2.66	0.49
1:I:275:PRO:HD2	1:I:276:THR:H	1.77	0.49
1:J:208:LEU:C	1:J:210:THR:N	2.66	0.49
1:J:263:VAL:CG1	1:J:289:TRP:HB2	2.40	0.49
1:K:143:LYS:HA	1:K:263:VAL:O	2.12	0.49
1:K:158:LEU:HD21	1:K:185:ILE:HG21	1.95	0.49
1:K:170:ILE:CD1	1:K:239:VAL:HG23	2.43	0.49
1:K:258:VAL:HG13	1:K:259:ALA:H	1.76	0.49
1:L:143:LYS:HA	1:L:263:VAL:O	2.12	0.49
1:L:252:LEU:CD2	1:L:252:LEU:N	2.75	0.49
1:M:143:LYS:HG2	1:M:263:VAL:HB	1.93	0.49
1:N:190:SER:O	1:N:243:THR:OG1	2.31	0.49
1:O:285:MET:HE1	1:Q:276:THR:O	2.12	0.49
1:P:205:ILE:CD1	1:Q:104:GLN:CB	2.81	0.49
1:P:275:PRO:HD2	1:P:276:THR:H	1.77	0.49
1:B:190:SER:O	1:B:243:THR:OG1	2.31	0.49
1:F:112:PRO:HG2	1:F:115:SER:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:162:GLU:HG3	1:G:252:LEU:CD1	2.33	0.49
1:G:174:TYR:HD1	1:G:198:LEU:HD12	1.63	0.49
1:G:311:SER:O	1:G:312:LYS:CB	2.60	0.49
1:H:143:LYS:HG2	1:H:263:VAL:HB	1.93	0.49
1:I:142:MET:HE1	1:I:152:MET:CE	2.25	0.49
1:K:234:ASN:O	1:K:235:HIS:CD2	2.60	0.49
1:N:158:LEU:HD21	1:N:185:ILE:HG21	1.95	0.49
1:B:275:PRO:HD2	1:B:276:THR:H	1.77	0.49
1:F:190:SER:O	1:F:243:THR:OG1	2.31	0.49
1:F:205:ILE:CD1	1:G:104:GLN:CB	2.81	0.49
1:G:123:ASP:OD1	1:G:126:SER:N	2.40	0.49
1:G:258:VAL:HG13	1:G:259:ALA:H	1.76	0.49
1:H:133:LEU:HD12	1:H:255:ARG:HH21	1.76	0.49
1:K:208:LEU:C	1:K:210:THR:N	2.66	0.49
1:L:174:TYR:CG	1:L:198:LEU:CD1	2.91	0.49
1:L:311:SER:O	1:L:312:LYS:CB	2.60	0.49
1:M:126:SER:CA	1:M:223:LYS:HZ1	2.12	0.49
1:M:208:LEU:C	1:M:210:THR:N	2.66	0.49
1:N:251:LYS:CA	1:N:252:LEU:HD23	2.42	0.49
1:O:143:LYS:HA	1:O:263:VAL:O	2.12	0.49
1:P:208:LEU:C	1:P:210:THR:N	2.66	0.49
1:G:112:PRO:HG2	1:G:115:SER:HB2	1.95	0.49
1:G:168:MET:HE1	1:G:175:TYR:CD1	2.36	0.49
1:G:263:VAL:CG1	1:G:289:TRP:HB2	2.40	0.49
1:H:311:SER:O	1:H:312:LYS:CB	2.60	0.49
1:K:85:TYR:CE1	1:K:120:GLU:HG2	2.46	0.49
1:K:168:MET:HE2	1:K:175:TYR:CD1	2.46	0.49
1:L:75:THR:CG2	1:L:79:SER:OG	2.60	0.49
1:L:170:ILE:CD1	1:L:239:VAL:HB	2.42	0.49
1:L:208:LEU:C	1:L:210:THR:N	2.66	0.49
1:M:276:THR:O	1:N:285:MET:HE1	2.13	0.49
1:O:190:SER:O	1:O:243:THR:OG1	2.31	0.49
1:P:142:MET:HE1	1:P:152:MET:HE2	1.68	0.49
1:P:174:TYR:HD1	1:P:198:LEU:HD12	1.63	0.49
1:P:205:ILE:HD11	1:Q:104:GLN:HB3	1.88	0.49
1:Q:158:LEU:HD21	1:Q:185:ILE:HG21	1.95	0.49
1:B:251:LYS:CA	1:B:252:LEU:HD23	2.42	0.49
1:G:158:LEU:HD21	1:G:185:ILE:HG21	1.95	0.49
1:G:170:ILE:CD1	1:G:239:VAL:HB	2.42	0.49
1:H:251:LYS:CA	1:H:252:LEU:HD23	2.42	0.49
1:J:143:LYS:HA	1:J:263:VAL:O	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:276:THR:O	1:K:285:MET:HE1	2.12	0.49
1:K:142:MET:HE1	1:K:152:MET:CE	2.24	0.49
1:L:190:SER:O	1:L:243:THR:OG1	2.31	0.49
1:N:133:LEU:HD12	1:N:255:ARG:HH21	1.76	0.49
1:Q:258:VAL:HG13	1:Q:259:ALA:H	1.76	0.49
1:B:112:PRO:HG2	1:B:115:SER:HB2	1.95	0.49
1:F:276:THR:O	1:G:285:MET:HE1	2.13	0.49
1:H:275:PRO:HD2	1:H:276:THR:H	1.77	0.49
1:J:112:PRO:HG2	1:J:115:SER:HB2	1.95	0.49
1:K:142:MET:HE3	1:K:152:MET:HE3	0.56	0.49
1:K:190:SER:O	1:K:243:THR:OG1	2.31	0.49
1:K:275:PRO:HD2	1:K:276:THR:H	1.77	0.49
1:K:311:SER:O	1:K:312:LYS:CB	2.60	0.49
1:O:159:ILE:HG23	1:O:258:VAL:CG2	2.11	0.49
1:O:170:ILE:CD1	1:O:239:VAL:HB	2.42	0.49
1:Q:168:MET:HE3	1:Q:175:TYR:CD1	2.46	0.49
1:F:108:THR:HG23	1:F:109:LYS:H	1.78	0.49
1:J:170:ILE:CD1	1:J:239:VAL:HB	2.42	0.49
1:J:251:LYS:CA	1:J:252:LEU:HD23	2.42	0.49
1:L:275:PRO:HD2	1:L:276:THR:H	1.77	0.49
1:N:258:VAL:HG13	1:N:259:ALA:H	1.76	0.49
1:O:75:THR:CG2	1:O:79:SER:OG	2.60	0.49
1:F:142:MET:HE1	1:F:152:MET:CE	2.26	0.48
1:F:234:ASN:O	1:F:235:HIS:CD2	2.60	0.48
1:G:159:ILE:HG23	1:G:258:VAL:CG2	2.11	0.48
1:K:168:MET:HE2	1:K:175:TYR:CE1	2.32	0.48
1:N:112:PRO:HG2	1:N:115:SER:HB2	1.95	0.48
1:F:125:ALA:O	1:F:128:SER:OG	2.31	0.48
1:G:134:TYR:CD1	1:O:167:PRO:HB3	2.26	0.48
1:G:276:THR:O	1:H:285:MET:HE1	2.13	0.48
1:I:307:ILE:HA	1:I:310:MET:HE2	1.95	0.48
1:O:208:LEU:C	1:O:210:THR:N	2.66	0.48
1:P:127:PHE:CD2	1:P:155:LEU:CD2	2.64	0.48
1:P:162:GLU:HG3	1:P:252:LEU:CD1	2.33	0.48
1:P:276:THR:O	1:Q:285:MET:HE1	2.13	0.48
1:B:311:SER:O	1:B:312:LYS:CB	2.60	0.48
1:F:150:LEU:HD12	1:G:288:ASN:CG	2.08	0.48
1:F:251:LYS:CA	1:F:252:LEU:HD23	2.42	0.48
1:H:142:MET:HE3	1:H:152:MET:HE2	0.54	0.48
1:I:208:LEU:C	1:I:210:THR:N	2.66	0.48
1:L:276:THR:O	1:M:285:MET:HE1	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:285:MET:HE1	1:N:276:THR:O	2.12	0.48
1:P:174:TYR:HE1	1:P:234:ASN:HB2	1.72	0.48
1:G:159:ILE:HG22	1:G:258:VAL:CB	2.44	0.48
1:I:174:TYR:CG	1:I:198:LEU:CD1	2.91	0.48
1:J:75:THR:CG2	1:J:79:SER:OG	2.61	0.48
1:J:108:THR:HG23	1:J:109:LYS:H	1.78	0.48
1:J:158:LEU:HD21	1:J:185:ILE:HG21	1.95	0.48
1:J:275:PRO:HD2	1:J:276:THR:H	1.77	0.48
1:L:158:LEU:HD21	1:L:185:ILE:HG21	1.95	0.48
1:Q:174:TYR:HD1	1:Q:234:ASN:HB3	1.73	0.48
1:F:174:TYR:HD1	1:F:234:ASN:HB3	1.73	0.48
1:G:251:LYS:CA	1:G:252:LEU:HD23	2.42	0.48
1:I:174:TYR:CD1	1:I:198:LEU:HD13	2.34	0.48
1:I:190:SER:O	1:I:243:THR:OG1	2.31	0.48
1:I:276:THR:O	1:J:285:MET:HE1	2.13	0.48
1:J:174:TYR:HE1	1:J:234:ASN:HB2	1.72	0.48
1:K:76:PHE:HB3	1:K:110:GLY:O	2.14	0.48
1:L:159:ILE:HG22	1:L:258:VAL:CB	2.44	0.48
1:M:158:LEU:HD21	1:M:185:ILE:HG21	1.95	0.48
1:N:108:THR:HG23	1:N:109:LYS:H	1.78	0.48
1:O:104:GLN:CB	1:Q:205:ILE:CD1	2.81	0.48
1:O:108:THR:HG23	1:O:109:LYS:H	1.78	0.48
1:O:154:GLU:OE1	1:O:225:VAL:CA	2.59	0.48
1:O:205:ILE:CD1	1:P:104:GLN:HB2	2.40	0.48
1:Q:106:PHE:HE2	1:Q:303:VAL:CG2	2.27	0.48
1:Q:112:PRO:HG2	1:Q:115:SER:HB2	1.95	0.48
1:Q:307:ILE:HA	1:Q:310:MET:HE3	1.94	0.48
1:Q:311:SER:O	1:Q:312:LYS:CB	2.60	0.48
1:F:159:ILE:HG22	1:F:258:VAL:CB	2.44	0.48
1:G:154:GLU:OE1	1:G:225:VAL:CA	2.59	0.48
1:H:75:THR:CG2	1:H:79:SER:OG	2.62	0.48
1:H:191:CYS:HG	1:H:244:CYS:CB	2.26	0.48
1:I:106:PHE:HE2	1:I:303:VAL:CG2	2.27	0.48
1:I:158:LEU:HD21	1:I:185:ILE:HG21	1.95	0.48
1:J:167:PRO:O	1:L:117:TYR:OH	2.28	0.48
1:J:190:SER:O	1:J:243:THR:OG1	2.31	0.48
1:M:190:SER:O	1:M:243:THR:OG1	2.31	0.48
1:P:159:ILE:HG22	1:P:258:VAL:CB	2.44	0.48
1:B:76:PHE:HB3	1:B:110:GLY:O	2.14	0.48
1:F:162:GLU:CA	1:F:253:GLY:O	2.62	0.48
1:H:106:PHE:HE2	1:H:303:VAL:CG2	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:170:ILE:HD11	1:I:239:VAL:CG2	2.44	0.48
1:K:106:PHE:HE2	1:K:303:VAL:CG2	2.27	0.48
1:K:112:PRO:HG2	1:K:115:SER:HB2	1.95	0.48
1:K:126:SER:HA	1:K:223:LYS:HZ2	1.71	0.48
1:K:159:ILE:HG22	1:K:258:VAL:CB	2.44	0.48
1:O:76:PHE:HB3	1:O:110:GLY:O	2.14	0.48
1:O:162:GLU:CA	1:O:253:GLY:O	2.62	0.48
1:O:174:TYR:HD1	1:O:234:ASN:HB3	1.73	0.48
1:F:78:THR:O	1:F:78:THR:CG2	2.61	0.48
1:F:275:PRO:HD2	1:F:276:THR:H	1.77	0.48
1:G:76:PHE:HB3	1:G:110:GLY:O	2.14	0.48
1:G:307:ILE:HA	1:G:310:MET:HE3	1.95	0.48
1:H:112:PRO:HG2	1:H:115:SER:HB2	1.95	0.48
1:H:159:ILE:HG22	1:H:258:VAL:CB	2.44	0.48
1:K:170:ILE:HD11	1:K:239:VAL:CG2	2.44	0.48
1:L:106:PHE:HE2	1:L:303:VAL:CG2	2.27	0.48
1:L:154:GLU:OE1	1:L:225:VAL:CA	2.59	0.48
1:L:175:TYR:HE1	1:L:237:LEU:HD22	1.79	0.48
1:M:106:PHE:HE2	1:M:303:VAL:CG2	2.27	0.48
1:N:191:CYS:HG	1:N:244:CYS:HB3	1.78	0.48
1:O:158:LEU:HD21	1:O:185:ILE:HG21	1.95	0.48
1:Q:190:SER:O	1:Q:243:THR:OG1	2.31	0.48
1:F:106:PHE:HE2	1:F:303:VAL:CG2	2.27	0.48
1:F:204:GLY:HA3	1:F:207:CYS:O	2.14	0.48
1:G:175:TYR:HE1	1:G:237:LEU:HD22	1.79	0.48
1:G:190:SER:O	1:G:243:THR:OG1	2.31	0.48
1:H:162:GLU:CA	1:H:253:GLY:O	2.62	0.48
1:H:190:SER:O	1:H:243:THR:OG1	2.31	0.48
1:L:76:PHE:HB3	1:L:110:GLY:O	2.14	0.48
1:L:104:GLN:CB	1:N:205:ILE:CD1	2.81	0.48
1:L:108:THR:HG23	1:L:109:LYS:H	1.78	0.48
1:L:174:TYR:HD1	1:L:234:ASN:HB3	1.73	0.48
1:M:76:PHE:HB3	1:M:110:GLY:O	2.14	0.48
1:M:162:GLU:CA	1:M:253:GLY:O	2.62	0.48
1:O:78:THR:O	1:O:78:THR:HG22	2.13	0.48
1:O:104:GLN:HB3	1:Q:205:ILE:HD11	1.88	0.48
1:P:158:LEU:HD21	1:P:185:ILE:HG21	1.95	0.48
1:P:175:TYR:HE1	1:P:237:LEU:HD22	1.79	0.48
1:P:175:TYR:O	1:P:235:HIS:N	2.42	0.48
1:P:190:SER:O	1:P:243:THR:OG1	2.31	0.48
1:B:162:GLU:CA	1:B:253:GLY:O	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:205:ILE:CD1	1:G:104:GLN:HB2	2.40	0.48
1:H:158:LEU:HD21	1:H:185:ILE:HG21	1.95	0.48
1:J:204:GLY:HA3	1:J:207:CYS:O	2.14	0.48
1:K:251:LYS:O	1:K:252:LEU:CB	2.46	0.48
1:F:158:LEU:HD21	1:F:185:ILE:HG21	1.95	0.47
1:F:208:LEU:C	1:F:210:THR:N	2.66	0.47
1:F:258:VAL:CG1	1:F:260:VAL:HG23	2.44	0.47
1:H:76:PHE:HB3	1:H:110:GLY:O	2.14	0.47
1:I:159:ILE:HG22	1:I:258:VAL:CB	2.44	0.47
1:I:285:MET:HE1	1:K:276:THR:O	2.14	0.47
1:L:204:GLY:HA3	1:L:207:CYS:O	2.14	0.47
1:M:112:PRO:HG2	1:M:115:SER:HB2	1.95	0.47
1:M:159:ILE:HG22	1:M:258:VAL:CB	2.44	0.47
1:O:170:ILE:HD11	1:O:239:VAL:CG2	2.44	0.47
1:P:162:GLU:CA	1:P:253:GLY:O	2.62	0.47
1:P:170:ILE:CD1	1:P:239:VAL:HG23	2.43	0.47
1:P:170:ILE:HD11	1:P:239:VAL:CG2	2.44	0.47
1:I:76:PHE:HB3	1:I:110:GLY:O	2.14	0.47
1:J:154:GLU:OE1	1:J:225:VAL:CA	2.59	0.47
1:M:193:ILE:CG2	1:M:237:LEU:HD11	2.45	0.47
1:M:253:GLY:HA2	1:M:254:PRO:HD3	1.61	0.47
1:N:82:CYS:HG	1:N:135:CYS:CB	2.16	0.47
1:P:78:THR:O	1:P:78:THR:CG2	2.63	0.47
1:Q:204:GLY:HA3	1:Q:207:CYS:O	2.14	0.47
1:B:158:LEU:CD2	1:B:185:ILE:HD13	2.44	0.47
1:B:170:ILE:HD11	1:B:239:VAL:CG2	2.44	0.47
1:B:193:ILE:CG2	1:B:237:LEU:HD11	2.45	0.47
1:H:162:GLU:HB3	1:H:253:GLY:CA	2.45	0.47
1:I:108:THR:HG23	1:I:109:LYS:H	1.78	0.47
1:I:112:PRO:HG2	1:I:115:SER:HB2	1.95	0.47
1:L:112:PRO:HG2	1:L:115:SER:HB2	1.95	0.47
1:L:170:ILE:HD11	1:L:239:VAL:CG2	2.44	0.47
1:L:205:ILE:CD1	1:M:104:GLN:HB2	2.40	0.47
1:M:205:ILE:CD1	1:N:104:GLN:HB2	2.40	0.47
1:M:258:VAL:CG1	1:M:260:VAL:HG23	2.45	0.47
1:N:159:ILE:HG22	1:N:258:VAL:CB	2.44	0.47
1:N:162:GLU:CA	1:N:253:GLY:O	2.62	0.47
1:N:204:GLY:HA3	1:N:207:CYS:O	2.14	0.47
1:O:104:GLN:HB2	1:Q:205:ILE:CD1	2.40	0.47
1:O:204:GLY:HA3	1:O:207:CYS:O	2.14	0.47
1:P:106:PHE:HE2	1:P:303:VAL:CG2	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:175:TYR:CZ	1:P:237:LEU:HD22	2.50	0.47
1:F:162:GLU:HB3	1:F:253:GLY:CA	2.45	0.47
1:G:106:PHE:HE2	1:G:303:VAL:CG2	2.27	0.47
1:G:175:TYR:CZ	1:G:237:LEU:HD22	2.50	0.47
1:G:253:GLY:HA2	1:G:254:PRO:HD3	1.61	0.47
1:J:150:LEU:HD22	1:K:290:LYS:CA	2.45	0.47
1:J:159:ILE:HG22	1:J:258:VAL:CB	2.44	0.47
1:L:150:LEU:HD22	1:M:290:LYS:CA	2.45	0.47
1:L:162:GLU:HG3	1:L:252:LEU:CD1	2.33	0.47
1:M:204:GLY:HA3	1:M:207:CYS:O	2.14	0.47
1:N:311:SER:O	1:N:312:LYS:CB	2.60	0.47
1:Q:208:LEU:C	1:Q:210:THR:N	2.66	0.47
1:F:76:PHE:HB3	1:F:110:GLY:O	2.14	0.47
1:F:104:GLN:HB2	1:H:205:ILE:CD1	2.40	0.47
1:F:175:TYR:CZ	1:F:237:LEU:HD22	2.50	0.47
1:G:193:ILE:CG2	1:G:237:LEU:HD11	2.45	0.47
1:H:258:VAL:CG1	1:H:260:VAL:HG23	2.44	0.47
1:I:258:VAL:CG1	1:I:260:VAL:HG23	2.44	0.47
1:I:307:ILE:HD13	1:I:310:MET:HE1	1.95	0.47
1:J:76:PHE:HB3	1:J:110:GLY:O	2.14	0.47
1:J:192:THR:HG23	1:J:220:THR:HA	1.97	0.47
1:J:193:ILE:CG2	1:J:237:LEU:HD11	2.45	0.47
1:J:258:VAL:CG1	1:J:260:VAL:HG23	2.44	0.47
1:L:162:GLU:CA	1:L:253:GLY:O	2.62	0.47
1:L:290:LYS:CA	1:N:150:LEU:HD22	2.45	0.47
1:N:117:TYR:CD2	1:P:167:PRO:HG2	2.49	0.47
1:N:193:ILE:CG2	1:N:237:LEU:HD11	2.45	0.47
1:O:112:PRO:HG2	1:O:115:SER:HB2	1.95	0.47
1:O:175:TYR:HE1	1:O:237:LEU:HD22	1.79	0.47
1:P:112:PRO:HG2	1:P:115:SER:HB2	1.95	0.47
1:F:128:SER:C	1:F:131:PRO:HG3	2.35	0.47
1:G:128:SER:C	1:G:131:PRO:HG3	2.35	0.47
1:G:258:VAL:CG1	1:G:260:VAL:HG23	2.44	0.47
1:I:162:GLU:HB3	1:I:253:GLY:CA	2.45	0.47
1:I:192:THR:HG23	1:I:220:THR:HA	1.97	0.47
1:I:204:GLY:HA3	1:I:207:CYS:O	2.14	0.47
1:M:83:LEU:CD2	1:M:139:VAL:HG13	2.43	0.47
1:M:108:THR:CG2	1:M:109:LYS:H	2.27	0.47
1:M:170:ILE:HD11	1:M:239:VAL:CG2	2.44	0.47
1:N:162:GLU:HB2	1:N:253:GLY:O	2.07	0.47
1:P:150:LEU:HD22	1:Q:290:LYS:CA	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:108:THR:CG2	1:Q:109:LYS:H	2.28	0.47
1:B:159:ILE:HG22	1:B:258:VAL:CB	2.44	0.47
1:B:175:TYR:CZ	1:B:237:LEU:HD22	2.50	0.47
1:B:202:THR:O	1:B:202:THR:HG22	2.15	0.47
1:B:204:GLY:HA3	1:B:207:CYS:O	2.14	0.47
1:B:222:GLU:HB2	1:B:225:VAL:CG2	2.45	0.47
1:F:159:ILE:HG23	1:F:258:VAL:CG2	2.11	0.47
1:F:170:ILE:HD11	1:F:239:VAL:CG2	2.44	0.47
1:F:290:LYS:CA	1:H:150:LEU:CD2	2.93	0.47
1:F:290:LYS:CA	1:H:150:LEU:HD22	2.45	0.47
1:G:108:THR:HG23	1:G:109:LYS:H	1.78	0.47
1:G:180:GLU:O	1:G:180:GLU:CG	2.63	0.47
1:H:108:THR:CG2	1:H:109:LYS:H	2.28	0.47
1:H:108:THR:HG23	1:H:109:LYS:H	1.78	0.47
1:H:125:ALA:O	1:H:128:SER:OG	2.31	0.47
1:H:128:SER:C	1:H:131:PRO:HG3	2.35	0.47
1:H:170:ILE:HD11	1:H:239:VAL:CG2	2.44	0.47
1:H:175:TYR:CZ	1:H:237:LEU:HD22	2.49	0.47
1:H:192:THR:HG23	1:H:220:THR:HA	1.97	0.47
1:H:202:THR:HG22	1:H:202:THR:O	2.15	0.47
1:I:75:THR:CG2	1:I:79:SER:OG	2.62	0.47
1:J:268:VAL:HG13	1:J:286:ARG:NH1	2.30	0.47
1:J:106:PHE:HE2	1:J:303:VAL:CG2	2.27	0.47
1:J:202:THR:O	1:J:202:THR:HG22	2.15	0.47
1:K:78:THR:O	1:K:78:THR:HG22	2.14	0.47
1:K:162:GLU:HB3	1:K:253:GLY:CA	2.45	0.47
1:K:174:TYR:CG	1:K:198:LEU:CD1	2.91	0.47
1:K:175:TYR:CZ	1:K:237:LEU:HD22	2.50	0.47
1:K:180:GLU:O	1:K:180:GLU:CG	2.63	0.47
1:K:192:THR:HG23	1:K:220:THR:HA	1.97	0.47
1:K:253:GLY:HA2	1:K:254:PRO:HD3	1.61	0.47
1:L:87:THR:HG1	1:L:122:THR:HG22	1.77	0.47
1:L:175:TYR:CZ	1:L:237:LEU:HD22	2.50	0.47
1:L:180:GLU:O	1:L:180:GLU:CG	2.63	0.47
1:L:193:ILE:CG2	1:L:237:LEU:HD11	2.45	0.47
1:L:258:VAL:CG1	1:L:260:VAL:HG23	2.44	0.47
1:M:142:MET:HE1	1:M:152:MET:HB3	1.97	0.47
1:M:180:GLU:O	1:M:180:GLU:CG	2.63	0.47
1:N:76:PHE:HB3	1:N:110:GLY:O	2.14	0.47
1:N:106:PHE:HE2	1:N:303:VAL:CG2	2.27	0.47
1:N:128:SER:C	1:N:131:PRO:HG3	2.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:170:ILE:HD11	1:N:239:VAL:CG2	2.44	0.47
1:O:158:LEU:CD2	1:O:185:ILE:HD13	2.44	0.47
1:O:168:MET:HE2	1:O:175:TYR:CG	2.48	0.47
1:O:192:THR:HG23	1:O:220:THR:HA	1.97	0.47
1:O:202:THR:O	1:O:202:THR:HG22	2.15	0.47
1:O:222:GLU:HB2	1:O:225:VAL:CG2	2.45	0.47
1:O:258:VAL:CG1	1:O:260:VAL:HG23	2.44	0.47
1:O:276:THR:O	1:P:285:MET:HE1	2.14	0.47
1:P:125:ALA:O	1:P:128:SER:OG	2.31	0.47
1:P:162:GLU:HB3	1:P:253:GLY:CA	2.45	0.47
1:P:192:THR:HG23	1:P:220:THR:HA	1.97	0.47
1:Q:125:ALA:O	1:Q:128:SER:OG	2.31	0.47
1:Q:175:TYR:HE1	1:Q:237:LEU:HD22	1.79	0.47
1:B:175:TYR:HE1	1:B:237:LEU:HD22	1.79	0.47
1:F:193:ILE:CG2	1:F:237:LEU:HD11	2.45	0.47
1:G:162:GLU:HB3	1:G:253:GLY:CA	2.45	0.47
1:G:202:THR:O	1:G:202:THR:HG22	2.15	0.47
1:G:222:GLU:HB2	1:G:225:VAL:CG2	2.45	0.47
1:H:204:GLY:HA3	1:H:207:CYS:O	2.14	0.47
1:J:108:THR:CG2	1:J:109:LYS:H	2.28	0.47
1:J:162:GLU:CA	1:J:253:GLY:O	2.62	0.47
1:J:174:TYR:HD1	1:J:198:LEU:HD12	1.63	0.47
1:K:204:GLY:HA3	1:K:207:CYS:O	2.14	0.47
1:L:192:THR:HG23	1:L:220:THR:HA	1.97	0.47
1:L:286:ARG:NH1	1:N:268:VAL:HG13	2.30	0.47
1:M:125:ALA:HB1	1:M:223:LYS:CG	2.44	0.47
1:N:154:GLU:OE1	1:N:225:VAL:CA	2.59	0.47
1:O:290:LYS:CA	1:Q:150:LEU:HD22	2.45	0.47
1:P:204:GLY:HA3	1:P:207:CYS:O	2.14	0.47
1:P:258:VAL:CG1	1:P:260:VAL:HG23	2.44	0.47
1:Q:154:GLU:OE1	1:Q:225:VAL:CA	2.59	0.47
1:Q:202:THR:HG22	1:Q:202:THR:O	2.15	0.47
1:B:108:THR:HG23	1:B:109:LYS:H	1.78	0.47
1:B:128:SER:C	1:B:131:PRO:HG3	2.35	0.47
1:B:258:VAL:CG1	1:B:260:VAL:HG23	2.44	0.47
1:H:73:GLU:O	1:H:73:GLU:CG	2.45	0.47
1:H:78:THR:O	1:H:78:THR:CG2	2.63	0.47
1:H:193:ILE:CG2	1:H:237:LEU:HD11	2.45	0.47
1:I:108:THR:CG2	1:I:109:LYS:H	2.27	0.47
1:I:180:GLU:O	1:I:180:GLU:CG	2.63	0.47
1:J:125:ALA:O	1:J:128:SER:OG	2.31	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:175:TYR:CZ	1:J:237:LEU:HD22	2.50	0.47
1:K:128:SER:C	1:K:131:PRO:HG3	2.35	0.47
1:K:202:THR:HG22	1:K:202:THR:O	2.15	0.47
1:M:159:ILE:HG23	1:M:258:VAL:CG2	2.11	0.47
1:N:108:THR:CG2	1:N:109:LYS:H	2.28	0.47
1:N:202:THR:HG22	1:N:202:THR:O	2.15	0.47
1:O:106:PHE:HE2	1:O:303:VAL:CG2	2.27	0.47
1:O:159:ILE:HG22	1:O:258:VAL:CB	2.44	0.47
1:O:268:VAL:HG13	1:P:286:ARG:NH1	2.30	0.47
1:P:76:PHE:HB3	1:P:110:GLY:O	2.14	0.47
1:P:205:ILE:CG1	1:Q:104:GLN:CD	2.83	0.47
1:Q:76:PHE:HB3	1:Q:110:GLY:O	2.14	0.47
1:Q:175:TYR:CZ	1:Q:237:LEU:HD22	2.50	0.47
1:B:106:PHE:HE2	1:B:303:VAL:HG21	1.80	0.47
1:B:125:ALA:O	1:B:128:SER:OG	2.31	0.47
1:B:307:ILE:HA	1:B:310:MET:HE3	1.96	0.47
1:F:174:TYR:HD1	1:F:198:LEU:HD12	1.63	0.47
1:G:75:THR:CG2	1:G:79:SER:OG	2.63	0.47
1:I:175:TYR:CZ	1:I:237:LEU:HD22	2.50	0.47
1:M:75:THR:CG2	1:M:79:SER:OG	2.62	0.47
1:M:128:SER:C	1:M:131:PRO:HG3	2.35	0.47
1:M:162:GLU:HB3	1:M:253:GLY:CA	2.45	0.47
1:N:106:PHE:HE2	1:N:303:VAL:HG21	1.80	0.47
1:N:222:GLU:HB2	1:N:225:VAL:CG2	2.45	0.47
1:O:127:PHE:CD2	1:O:155:LEU:CD2	2.64	0.47
1:Q:162:GLU:CA	1:Q:253:GLY:O	2.62	0.47
1:B:106:PHE:HE2	1:B:303:VAL:CG2	2.27	0.46
1:B:192:THR:HG23	1:B:220:THR:HA	1.97	0.46
1:F:174:TYR:CD1	1:F:198:LEU:HD13	2.34	0.46
1:G:108:THR:CG2	1:G:109:LYS:H	2.28	0.46
1:G:205:ILE:CG1	1:H:104:GLN:CD	2.83	0.46
1:H:174:TYR:CG	1:H:198:LEU:CD1	2.91	0.46
1:I:162:GLU:CA	1:I:253:GLY:O	2.62	0.46
1:I:168:MET:HE2	1:I:175:TYR:CD2	2.47	0.46
1:I:168:MET:CE	1:I:175:TYR:CE2	2.78	0.46
1:I:202:THR:O	1:I:202:THR:HG22	2.15	0.46
1:J:106:PHE:HE2	1:J:303:VAL:HG21	1.80	0.46
1:L:108:THR:CG2	1:L:109:LYS:H	2.28	0.46
1:M:175:TYR:CZ	1:M:237:LEU:HD22	2.49	0.46
1:N:175:TYR:CZ	1:N:237:LEU:HD22	2.50	0.46
1:N:258:VAL:CG1	1:N:260:VAL:HG23	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:125:ALA:HB1	1:Q:223:LYS:HB2	1.98	0.46
1:Q:193:ILE:CG2	1:Q:237:LEU:HD11	2.45	0.46
1:Q:199:ASN:HD21	1:Q:201:GLN:HG2	1.81	0.46
1:B:174:TYR:CG	1:B:198:LEU:CD1	2.91	0.46
1:F:106:PHE:HE2	1:F:303:VAL:HG21	1.80	0.46
1:F:192:THR:HG23	1:F:220:THR:HA	1.97	0.46
1:F:205:ILE:CG1	1:G:104:GLN:CD	2.83	0.46
1:G:174:TYR:HD1	1:G:234:ASN:HB3	1.73	0.46
1:H:106:PHE:HE2	1:H:303:VAL:HG21	1.80	0.46
1:I:205:ILE:CG1	1:J:104:GLN:CD	2.83	0.46
1:J:128:SER:C	1:J:131:PRO:HG3	2.35	0.46
1:J:162:GLU:HB3	1:J:253:GLY:CA	2.45	0.46
1:K:175:TYR:HE1	1:K:237:LEU:HD22	1.79	0.46
1:K:193:ILE:CG2	1:K:237:LEU:HD11	2.45	0.46
1:K:275:PRO:HD2	1:K:276:THR:N	2.31	0.46
1:M:106:PHE:HE2	1:M:303:VAL:HG21	1.80	0.46
1:O:128:SER:C	1:O:131:PRO:HG3	2.35	0.46
1:O:150:LEU:HD22	1:P:290:LYS:CA	2.45	0.46
1:P:193:ILE:CG2	1:P:237:LEU:HD11	2.45	0.46
1:Q:128:SER:C	1:Q:131:PRO:HG3	2.35	0.46
1:Q:170:ILE:HD11	1:Q:239:VAL:CG2	2.44	0.46
1:Q:180:GLU:O	1:Q:180:GLU:CG	2.63	0.46
1:Q:258:VAL:CG1	1:Q:260:VAL:HG23	2.45	0.46
1:F:150:LEU:HD22	1:G:290:LYS:CA	2.45	0.46
1:G:106:PHE:HE2	1:G:303:VAL:HG21	1.80	0.46
1:I:193:ILE:CG2	1:I:237:LEU:HD11	2.45	0.46
1:J:180:GLU:O	1:J:180:GLU:CG	2.63	0.46
1:J:205:ILE:CG1	1:K:104:GLN:CD	2.83	0.46
1:K:258:VAL:CG1	1:K:260:VAL:HG23	2.44	0.46
1:L:170:ILE:CD1	1:L:239:VAL:HG23	2.43	0.46
1:L:239:VAL:HG12	1:L:240:THR:N	2.31	0.46
1:M:143:LYS:CG	1:M:263:VAL:HB	2.46	0.46
1:N:162:GLU:HB3	1:N:253:GLY:CA	2.45	0.46
1:N:192:THR:HG23	1:N:220:THR:HA	1.97	0.46
1:P:108:THR:HG23	1:P:109:LYS:H	1.78	0.46
1:P:202:THR:HG22	1:P:202:THR:O	2.15	0.46
1:P:222:GLU:HB2	1:P:225:VAL:CG2	2.45	0.46
1:P:239:VAL:HG12	1:P:240:THR:N	2.31	0.46
1:P:275:PRO:HD2	1:P:276:THR:N	2.31	0.46
1:Q:192:THR:HG23	1:Q:220:THR:HA	1.97	0.46
1:G:162:GLU:CA	1:G:253:GLY:O	2.62	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:199:ASN:HD21	1:G:201:GLN:HG2	1.81	0.46
1:H:123:ASP:OD1	1:H:126:SER:N	2.40	0.46
1:H:180:GLU:O	1:H:180:GLU:CG	2.63	0.46
1:I:170:ILE:CD1	1:I:239:VAL:HG23	2.43	0.46
1:J:150:LEU:CD2	1:K:290:LYS:CA	2.93	0.46
1:J:239:VAL:HG12	1:J:240:THR:N	2.31	0.46
1:J:275:PRO:HD2	1:J:276:THR:N	2.31	0.46
1:L:104:GLN:CD	1:N:205:ILE:CG1	2.83	0.46
1:L:162:GLU:HB3	1:L:253:GLY:CA	2.45	0.46
1:M:108:THR:HG23	1:M:109:LYS:H	1.78	0.46
1:M:202:THR:O	1:M:202:THR:HG22	2.15	0.46
1:M:205:ILE:O	1:M:205:ILE:HG23	2.16	0.46
1:N:148:LEU:HD22	1:N:151:ASP:OD2	2.16	0.46
1:N:239:VAL:HG12	1:N:240:THR:N	2.31	0.46
1:O:150:LEU:CD2	1:P:290:LYS:CA	2.93	0.46
1:O:175:TYR:CZ	1:O:237:LEU:HD22	2.50	0.46
1:O:205:ILE:CD1	1:P:104:GLN:CB	2.81	0.46
1:B:205:ILE:O	1:B:205:ILE:HG23	2.16	0.46
1:B:239:VAL:HG12	1:B:240:THR:N	2.31	0.46
1:F:175:TYR:O	1:F:234:ASN:HA	2.15	0.46
1:F:239:VAL:HG12	1:F:240:THR:N	2.31	0.46
1:F:301:ASP:OD1	1:F:301:ASP:O	2.34	0.46
1:G:192:THR:HG23	1:G:220:THR:HA	1.97	0.46
1:G:268:VAL:HG13	1:H:286:ARG:NH1	2.30	0.46
1:H:143:LYS:CG	1:H:263:VAL:HB	2.46	0.46
1:H:239:VAL:HG12	1:H:240:THR:N	2.31	0.46
1:I:222:GLU:HB2	1:I:225:VAL:CG2	2.45	0.46
1:J:168:MET:HE3	1:J:175:TYR:CE1	2.22	0.46
1:K:125:ALA:HB1	1:K:223:LYS:CG	2.45	0.46
1:K:239:VAL:HG12	1:K:240:THR:N	2.31	0.46
1:M:150:LEU:HD22	1:N:290:LYS:CA	2.45	0.46
1:M:205:ILE:CG1	1:N:104:GLN:CD	2.83	0.46
1:N:253:GLY:HA2	1:N:254:PRO:HD3	1.61	0.46
1:O:148:LEU:HD22	1:O:151:ASP:OD2	2.16	0.46
1:O:193:ILE:CG2	1:O:237:LEU:HD11	2.45	0.46
1:P:150:LEU:CD2	1:Q:290:LYS:CA	2.93	0.46
1:P:186:SER:HB3	1:P:246:ILE:HG13	1.98	0.46
1:B:162:GLU:HB3	1:B:253:GLY:CA	2.45	0.46
1:B:180:GLU:O	1:B:180:GLU:CG	2.63	0.46
1:B:253:GLY:HA2	1:B:254:PRO:HD3	1.61	0.46
1:F:143:LYS:CG	1:F:263:VAL:HB	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:205:ILE:HG23	1:F:205:ILE:O	2.16	0.46
1:F:275:PRO:HD2	1:F:276:THR:N	2.31	0.46
1:G:150:LEU:HD22	1:H:290:LYS:CA	2.45	0.46
1:H:205:ILE:HG23	1:H:205:ILE:O	2.16	0.46
1:I:106:PHE:HE2	1:I:303:VAL:HG21	1.80	0.46
1:J:148:LEU:HD22	1:J:151:ASP:OD2	2.16	0.46
1:J:268:VAL:HG13	1:K:286:ARG:NH1	2.30	0.46
1:L:125:ALA:O	1:L:128:SER:OG	2.31	0.46
1:M:125:ALA:HB1	1:M:223:LYS:HB2	1.98	0.46
1:O:301:ASP:OD1	1:O:301:ASP:O	2.34	0.46
1:P:205:ILE:HG23	1:P:205:ILE:O	2.16	0.46
1:B:143:LYS:CG	1:B:263:VAL:HB	2.46	0.46
1:G:125:ALA:O	1:G:128:SER:OG	2.31	0.46
1:G:158:LEU:CD2	1:G:185:ILE:HD13	2.44	0.46
1:G:204:GLY:HA3	1:G:207:CYS:O	2.14	0.46
1:H:148:LEU:HD22	1:H:151:ASP:OD2	2.16	0.46
1:I:104:GLN:HB2	1:K:205:ILE:CD1	2.40	0.46
1:I:150:LEU:HD22	1:J:290:LYS:CA	2.45	0.46
1:I:290:LYS:CA	1:K:150:LEU:CD2	2.93	0.46
1:J:125:ALA:HB1	1:J:223:LYS:CG	2.45	0.46
1:L:143:LYS:CG	1:L:263:VAL:HB	2.46	0.46
1:L:202:THR:O	1:L:202:THR:HG22	2.15	0.46
1:M:192:THR:HG23	1:M:220:THR:HA	1.97	0.46
1:N:180:GLU:O	1:N:180:GLU:CG	2.63	0.46
1:P:108:THR:CG2	1:P:109:LYS:H	2.28	0.46
1:Q:83:LEU:CD2	1:Q:139:VAL:HG13	2.43	0.46
1:B:154:GLU:OE1	1:B:225:VAL:CA	2.59	0.46
1:B:275:PRO:HD2	1:B:276:THR:N	2.31	0.46
1:F:175:TYR:HE1	1:F:237:LEU:HD22	1.79	0.46
1:F:180:GLU:O	1:F:180:GLU:CG	2.63	0.46
1:H:154:GLU:OE1	1:H:225:VAL:CA	2.59	0.46
1:H:186:SER:HB3	1:H:246:ILE:HG13	1.98	0.46
1:I:186:SER:HB3	1:I:246:ILE:HG13	1.98	0.46
1:I:205:ILE:HG23	1:I:205:ILE:O	2.16	0.46
1:J:170:ILE:HD11	1:J:239:VAL:CG2	2.44	0.46
1:K:186:SER:HB3	1:K:246:ILE:HG13	1.98	0.46
1:L:128:SER:C	1:L:131:PRO:HG3	2.35	0.46
1:M:170:ILE:CD1	1:M:239:VAL:HG23	2.43	0.46
1:M:239:VAL:HG12	1:M:240:THR:N	2.31	0.46
1:N:142:MET:HE1	1:N:152:MET:HB3	1.98	0.46
1:O:186:SER:HB3	1:O:246:ILE:HG13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:286:ARG:NH1	1:Q:268:VAL:HG13	2.30	0.46
1:Q:158:LEU:CD2	1:Q:185:ILE:HD13	2.44	0.46
1:Q:162:GLU:HB3	1:Q:253:GLY:CA	2.45	0.46
1:B:144:TYR:CD2	1:B:145:ASP:N	2.73	0.46
1:B:179:ASP:C	1:B:181:ALA:H	2.19	0.46
1:F:127:PHE:CZ	1:F:140:VAL:HG21	2.51	0.46
1:F:199:ASN:HD21	1:F:201:GLN:HG2	1.81	0.46
1:G:143:LYS:CG	1:G:263:VAL:HB	2.46	0.46
1:G:170:ILE:HD11	1:G:239:VAL:CG2	2.44	0.46
1:G:301:ASP:OD1	1:G:301:ASP:O	2.34	0.46
1:I:127:PHE:CZ	1:I:140:VAL:HG21	2.51	0.46
1:I:128:SER:C	1:I:131:PRO:HG3	2.35	0.46
1:J:205:ILE:CD1	1:K:104:GLN:HB2	2.40	0.46
1:K:108:THR:CG2	1:K:109:LYS:H	2.27	0.46
1:K:179:ASP:C	1:K:181:ALA:H	2.19	0.46
1:L:106:PHE:HE2	1:L:303:VAL:HG21	1.80	0.46
1:L:170:ILE:HD11	1:L:239:VAL:HG21	1.98	0.46
1:M:150:LEU:CD2	1:N:290:LYS:CA	2.93	0.46
1:N:125:ALA:HB1	1:N:223:LYS:CG	2.45	0.46
1:O:127:PHE:CZ	1:O:140:VAL:HG21	2.51	0.46
1:O:143:LYS:CG	1:O:263:VAL:HB	2.46	0.46
1:O:162:GLU:HB3	1:O:253:GLY:CA	2.45	0.46
1:O:180:GLU:O	1:O:180:GLU:CG	2.63	0.46
1:O:199:ASN:HD21	1:O:201:GLN:HG2	1.81	0.46
1:O:205:ILE:HG23	1:O:205:ILE:O	2.16	0.46
1:P:128:SER:C	1:P:131:PRO:HG3	2.35	0.46
1:F:108:THR:CG2	1:F:109:LYS:H	2.27	0.46
1:F:202:THR:HG22	1:F:202:THR:O	2.15	0.46
1:H:179:ASP:C	1:H:181:ALA:H	2.19	0.46
1:I:125:ALA:O	1:I:128:SER:OG	2.31	0.46
1:K:162:GLU:CA	1:K:253:GLY:O	2.62	0.46
1:K:301:ASP:OD1	1:K:301:ASP:O	2.34	0.46
1:L:127:PHE:CZ	1:L:140:VAL:HG21	2.51	0.46
1:N:143:LYS:CG	1:N:263:VAL:HB	2.46	0.46
1:P:154:GLU:OE1	1:P:225:VAL:CA	2.59	0.46
1:P:268:VAL:HG13	1:Q:286:ARG:NH1	2.30	0.46
1:P:301:ASP:O	1:P:301:ASP:OD1	2.34	0.46
1:Q:78:THR:O	1:Q:78:THR:CG2	2.64	0.46
1:Q:108:THR:HG23	1:Q:109:LYS:H	1.78	0.46
1:B:301:ASP:O	1:B:301:ASP:OD1	2.34	0.45
1:F:170:ILE:CD1	1:F:239:VAL:HG23	2.43	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:73:GLU:O	1:G:73:GLU:CG	2.61	0.45
1:J:301:ASP:O	1:J:301:ASP:OD1	2.34	0.45
1:K:168:MET:CE	1:K:175:TYR:CG	2.99	0.45
1:L:125:ALA:HB1	1:L:223:LYS:HB2	1.98	0.45
1:L:148:LEU:HD22	1:L:151:ASP:OD2	2.16	0.45
1:L:222:GLU:HB2	1:L:225:VAL:CG2	2.45	0.45
1:M:222:GLU:HB2	1:M:225:VAL:CG2	2.45	0.45
1:N:199:ASN:HD21	1:N:201:GLN:HG2	1.81	0.45
1:O:275:PRO:HD2	1:O:276:THR:N	2.31	0.45
1:P:199:ASN:HD21	1:P:201:GLN:HG2	1.81	0.45
1:Q:106:PHE:HE2	1:Q:303:VAL:HG21	1.80	0.45
1:Q:179:ASP:C	1:Q:181:ALA:H	2.19	0.45
1:Q:186:SER:HB3	1:Q:246:ILE:HG13	1.98	0.45
1:B:186:SER:HB3	1:B:246:ILE:HG13	1.98	0.45
1:F:75:THR:CG2	1:F:79:SER:OG	2.65	0.45
1:F:148:LEU:HD22	1:F:151:ASP:OD2	2.16	0.45
1:F:158:LEU:CD2	1:F:185:ILE:HD13	2.44	0.45
1:F:268:VAL:HG13	1:G:286:ARG:NH1	2.30	0.45
1:G:170:ILE:HD11	1:G:239:VAL:HG21	1.98	0.45
1:I:168:MET:HE1	1:I:175:TYR:CZ	2.24	0.45
1:I:199:ASN:HD21	1:I:201:GLN:HG2	1.81	0.45
1:K:222:GLU:HB2	1:K:225:VAL:CG2	2.45	0.45
1:L:197:PRO:HG2	1:L:205:ILE:HG23	1.99	0.45
1:N:179:ASP:C	1:N:181:ALA:H	2.19	0.45
1:N:301:ASP:OD1	1:N:301:ASP:O	2.34	0.45
1:P:106:PHE:HE2	1:P:303:VAL:HG21	1.80	0.45
1:Q:143:LYS:CG	1:Q:263:VAL:HB	2.46	0.45
1:Q:168:MET:CE	1:Q:175:TYR:CG	3.00	0.45
1:Q:239:VAL:HG12	1:Q:240:THR:N	2.31	0.45
1:F:150:LEU:CD2	1:G:290:LYS:CA	2.93	0.45
1:H:174:TYR:HD1	1:H:234:ASN:HB3	1.73	0.45
1:I:125:ALA:HB1	1:I:223:LYS:HB2	1.98	0.45
1:I:290:LYS:CA	1:K:150:LEU:HD22	2.45	0.45
1:J:170:ILE:HD11	1:J:239:VAL:HG21	1.98	0.45
1:J:179:ASP:C	1:J:181:ALA:H	2.19	0.45
1:L:150:LEU:CD2	1:M:290:LYS:CA	2.93	0.45
1:L:199:ASN:HD21	1:L:201:GLN:HG2	1.81	0.45
1:M:158:LEU:CD2	1:M:185:ILE:HD13	2.44	0.45
1:M:179:ASP:C	1:M:181:ALA:H	2.19	0.45
1:M:186:SER:HB3	1:M:246:ILE:HG13	1.98	0.45
1:M:199:ASN:HD21	1:M:201:GLN:HG2	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:301:ASP:O	1:M:301:ASP:OD1	2.34	0.45
1:N:170:ILE:CD1	1:N:239:VAL:HG23	2.43	0.45
1:O:83:LEU:CD2	1:O:139:VAL:HG13	2.43	0.45
1:P:127:PHE:CZ	1:P:140:VAL:HG21	2.52	0.45
1:P:143:LYS:CG	1:P:263:VAL:HB	2.46	0.45
1:P:168:MET:CE	1:P:175:TYR:CG	3.00	0.45
1:P:180:GLU:O	1:P:180:GLU:CG	2.63	0.45
1:Q:159:ILE:HG22	1:Q:258:VAL:CB	2.44	0.45
1:B:78:THR:O	1:B:78:THR:CG2	2.63	0.45
1:F:168:MET:CE	1:F:175:TYR:CG	3.00	0.45
1:F:170:ILE:HD11	1:F:239:VAL:HG21	1.98	0.45
1:G:239:VAL:HG12	1:G:240:THR:N	2.31	0.45
1:I:104:GLN:CD	1:K:205:ILE:CG1	2.83	0.45
1:I:174:TYR:HE1	1:I:234:ASN:HB2	1.72	0.45
1:I:197:PRO:HG2	1:I:205:ILE:HG23	1.99	0.45
1:J:125:ALA:HB1	1:J:223:LYS:HB2	1.98	0.45
1:J:143:LYS:CG	1:J:263:VAL:HB	2.46	0.45
1:K:143:LYS:CG	1:K:263:VAL:HB	2.46	0.45
1:K:197:PRO:HG2	1:K:205:ILE:HG23	1.99	0.45
1:K:205:ILE:HG23	1:K:205:ILE:O	2.16	0.45
1:L:205:ILE:CD1	1:M:104:GLN:CB	2.81	0.45
1:L:205:ILE:HG23	1:L:205:ILE:O	2.16	0.45
1:M:197:PRO:HG2	1:M:205:ILE:HG23	1.99	0.45
1:N:196:CYS:HA	1:N:197:PRO:HD2	1.83	0.45
1:O:104:GLN:CD	1:Q:205:ILE:CG1	2.83	0.45
1:O:108:THR:CG2	1:O:109:LYS:H	2.27	0.45
1:O:125:ALA:O	1:O:128:SER:OG	2.31	0.45
1:O:205:ILE:CG1	1:P:104:GLN:CD	2.83	0.45
1:B:125:ALA:HB1	1:B:223:LYS:HB2	1.98	0.45
1:F:104:GLN:CD	1:H:205:ILE:CG1	2.83	0.45
1:F:125:ALA:HB1	1:F:223:LYS:HB2	1.98	0.45
1:F:265:GLY:C	1:H:149:GLN:HE22	2.03	0.45
1:G:127:PHE:CZ	1:G:140:VAL:HG21	2.51	0.45
1:G:150:LEU:CD2	1:H:290:LYS:CA	2.93	0.45
1:H:170:ILE:HD11	1:H:239:VAL:HG21	1.98	0.45
1:I:143:LYS:CG	1:I:263:VAL:HB	2.46	0.45
1:I:170:ILE:HD11	1:I:239:VAL:HG21	1.98	0.45
1:I:239:VAL:HG12	1:I:240:THR:N	2.31	0.45
1:I:301:ASP:OD1	1:I:301:ASP:O	2.34	0.45
1:K:106:PHE:HE2	1:K:303:VAL:HG21	1.80	0.45
1:K:125:ALA:O	1:K:128:SER:OG	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:186:SER:HB3	1:L:246:ILE:HG13	1.98	0.45
1:L:290:LYS:CA	1:N:150:LEU:CD2	2.93	0.45
1:N:205:ILE:HG23	1:N:205:ILE:O	2.16	0.45
1:O:168:MET:HE2	1:O:175:TYR:CD1	2.49	0.45
1:O:239:VAL:HG12	1:O:240:THR:N	2.31	0.45
1:Q:205:ILE:HG23	1:Q:205:ILE:O	2.16	0.45
1:Q:301:ASP:OD1	1:Q:301:ASP:O	2.34	0.45
1:B:108:THR:CG2	1:B:109:LYS:H	2.27	0.45
1:F:197:PRO:HG2	1:F:205:ILE:HG23	1.99	0.45
1:G:178:THR:N	1:G:182:ASN:HD22	2.13	0.45
1:I:150:LEU:CD2	1:J:290:LYS:CA	2.93	0.45
1:I:275:PRO:HD2	1:I:276:THR:N	2.31	0.45
1:K:158:LEU:CD2	1:K:185:ILE:HD13	2.44	0.45
1:N:197:PRO:HG2	1:N:205:ILE:HG23	1.99	0.45
1:O:170:ILE:HD11	1:O:239:VAL:HG21	1.98	0.45
1:Q:197:PRO:HG2	1:Q:205:ILE:HG23	1.99	0.45
1:H:199:ASN:HD21	1:H:201:GLN:HG2	1.81	0.45
1:H:301:ASP:OD1	1:H:301:ASP:O	2.34	0.45
1:J:127:PHE:CZ	1:J:140:VAL:HG21	2.51	0.45
1:N:175:TYR:HE1	1:N:237:LEU:HD22	1.79	0.45
1:O:106:PHE:HE2	1:O:303:VAL:HG21	1.80	0.45
1:Q:174:TYR:HE1	1:Q:234:ASN:HB2	1.72	0.45
1:B:160:LEU:HD21	1:B:283:ARG:O	2.17	0.45
1:B:197:PRO:HG2	1:B:205:ILE:HG23	1.99	0.45
1:F:83:LEU:CD2	1:F:139:VAL:HG13	2.44	0.45
1:F:186:SER:HB3	1:F:246:ILE:HG13	1.98	0.45
1:G:103:SER:CB	1:O:173:TYR:OH	2.64	0.45
1:H:127:PHE:CZ	1:H:140:VAL:HG21	2.51	0.45
1:I:175:TYR:HE1	1:I:237:LEU:HD22	1.79	0.45
1:J:199:ASN:HD21	1:J:201:GLN:HG2	1.81	0.45
1:L:301:ASP:OD1	1:L:301:ASP:O	2.34	0.45
1:P:125:ALA:HB1	1:P:223:LYS:HB2	1.98	0.45
1:Q:125:ALA:HB1	1:Q:223:LYS:CG	2.44	0.45
1:Q:148:LEU:HD22	1:Q:151:ASP:OD2	2.16	0.45
1:B:127:PHE:CZ	1:B:140:VAL:HG21	2.52	0.45
1:G:125:ALA:HB1	1:G:223:LYS:HB2	1.98	0.45
1:I:104:GLN:CB	1:K:205:ILE:CD1	2.82	0.45
1:J:196:CYS:HA	1:J:197:PRO:HD2	1.83	0.45
1:J:205:ILE:O	1:J:205:ILE:HG23	2.16	0.45
1:M:170:ILE:HD11	1:M:239:VAL:HG21	1.98	0.45
1:N:127:PHE:CZ	1:N:140:VAL:HG21	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:222:GLU:HB2	1:Q:225:VAL:CG2	2.45	0.45
1:F:258:VAL:HG11	1:F:260:VAL:HG23	1.99	0.45
1:G:186:SER:HB3	1:G:246:ILE:HG13	1.98	0.45
1:G:191:CYS:HG	1:G:244:CYS:CB	2.30	0.45
1:H:168:MET:CE	1:H:175:TYR:CG	3.00	0.45
1:I:179:ASP:C	1:I:181:ALA:H	2.19	0.45
1:L:83:LEU:CD2	1:L:139:VAL:HG13	2.43	0.45
1:L:179:ASP:C	1:L:181:ALA:H	2.19	0.45
1:M:69:ASN:O	1:M:70:SER:CB	2.58	0.45
1:M:160:LEU:HD21	1:M:283:ARG:O	2.17	0.45
1:M:201:GLN:O	1:M:202:THR:HB	2.17	0.45
1:N:160:LEU:HD21	1:N:283:ARG:O	2.17	0.45
1:P:170:ILE:HD11	1:P:239:VAL:HG21	1.98	0.45
1:Q:127:PHE:CZ	1:Q:140:VAL:HG21	2.51	0.45
1:B:199:ASN:HD21	1:B:201:GLN:HG2	1.81	0.44
1:F:160:LEU:HD21	1:F:283:ARG:O	2.17	0.44
1:F:222:GLU:HB2	1:F:225:VAL:CG2	2.45	0.44
1:F:286:ARG:NH1	1:H:268:VAL:HG13	2.30	0.44
1:G:150:LEU:HG	1:H:290:LYS:CE	2.47	0.44
1:G:197:PRO:HG2	1:G:205:ILE:HG23	1.99	0.44
1:G:205:ILE:HG23	1:G:205:ILE:O	2.16	0.44
1:J:222:GLU:HB2	1:J:225:VAL:CG2	2.45	0.44
1:K:199:ASN:HD21	1:K:201:GLN:HG2	1.81	0.44
1:K:201:GLN:O	1:K:202:THR:HB	2.18	0.44
1:K:258:VAL:HG11	1:K:260:VAL:HG23	1.99	0.44
1:L:104:GLN:HB2	1:N:205:ILE:CD1	2.40	0.44
1:M:175:TYR:HE1	1:M:237:LEU:HD22	1.79	0.44
1:N:125:ALA:HB1	1:N:223:LYS:HB2	1.98	0.44
1:N:170:ILE:HD11	1:N:239:VAL:HG21	1.98	0.44
1:O:179:ASP:C	1:O:181:ALA:H	2.19	0.44
1:O:258:VAL:HG11	1:O:260:VAL:HG23	1.99	0.44
1:P:150:LEU:HG	1:Q:290:LYS:CE	2.47	0.44
1:Q:170:ILE:CD1	1:Q:239:VAL:HG23	2.43	0.44
1:Q:170:ILE:HD11	1:Q:239:VAL:HG21	1.98	0.44
1:F:72:GLN:CB	1:F:76:PHE:CE1	2.70	0.44
1:G:160:LEU:HD21	1:G:283:ARG:O	2.17	0.44
1:H:125:ALA:HB1	1:H:223:LYS:HB2	1.98	0.44
1:H:160:LEU:HD21	1:H:283:ARG:O	2.17	0.44
1:I:127:PHE:CD2	1:I:155:LEU:CD2	2.64	0.44
1:J:158:LEU:CD2	1:J:185:ILE:HD13	2.44	0.44
1:L:125:ALA:HB1	1:L:223:LYS:CG	2.45	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:127:PHE:CZ	1:M:140:VAL:HG21	2.51	0.44
1:M:275:PRO:HD2	1:M:276:THR:N	2.31	0.44
1:P:149:GLN:HE22	1:Q:265:GLY:C	2.07	0.44
1:P:179:ASP:C	1:P:181:ALA:H	2.19	0.44
1:H:222:GLU:HB2	1:H:225:VAL:CG2	2.45	0.44
1:L:253:GLY:HA2	1:L:254:PRO:HD3	1.61	0.44
1:M:82:CYS:HG	1:M:135:CYS:CB	2.16	0.44
1:N:126:SER:CA	1:N:223:LYS:HZ1	2.07	0.44
1:O:125:ALA:HB1	1:O:223:LYS:HB2	1.98	0.44
1:P:73:GLU:O	1:P:73:GLU:CG	2.57	0.44
1:P:158:LEU:CD2	1:P:185:ILE:HD13	2.44	0.44
1:Q:160:LEU:HD21	1:Q:283:ARG:O	2.17	0.44
1:F:179:ASP:C	1:F:181:ALA:H	2.19	0.44
1:G:205:ILE:CD1	1:H:104:GLN:CB	2.81	0.44
1:G:205:ILE:CD1	1:H:104:GLN:HB2	2.40	0.44
1:H:125:ALA:HB1	1:H:223:LYS:CG	2.45	0.44
1:H:170:ILE:CD1	1:H:239:VAL:HG23	2.43	0.44
1:H:257:ASN:C	1:H:310:MET:SD	2.93	0.44
1:J:178:THR:HB	1:J:179:ASP:OD1	2.18	0.44
1:L:160:LEU:HD21	1:L:283:ARG:O	2.17	0.44
1:N:201:GLN:O	1:N:202:THR:HB	2.18	0.44
1:N:275:PRO:HD2	1:N:276:THR:N	2.31	0.44
1:B:83:LEU:CD2	1:B:139:VAL:HG13	2.43	0.44
1:B:142:MET:HE1	1:B:152:MET:HE1	1.89	0.44
1:B:307:ILE:HA	1:B:310:MET:HE2	1.99	0.44
1:H:201:GLN:O	1:H:202:THR:HB	2.18	0.44
1:I:78:THR:O	1:I:78:THR:HG22	2.18	0.44
1:J:150:LEU:HG	1:K:290:LYS:CE	2.47	0.44
1:M:178:THR:HB	1:M:179:ASP:OD1	2.18	0.44
1:O:160:LEU:HD21	1:O:283:ARG:O	2.17	0.44
1:O:197:PRO:HG2	1:O:205:ILE:HG23	1.99	0.44
1:P:174:TYR:HD1	1:P:234:ASN:HB3	1.73	0.44
1:B:170:ILE:HD11	1:B:239:VAL:HG21	1.98	0.44
1:J:175:TYR:HE1	1:J:237:LEU:HD22	1.79	0.44
1:K:125:ALA:HB1	1:K:223:LYS:HB2	1.98	0.44
1:M:148:LEU:HD22	1:M:151:ASP:OD2	2.17	0.44
1:M:154:GLU:OE1	1:M:225:VAL:CA	2.59	0.44
1:N:186:SER:HB3	1:N:246:ILE:HG13	1.98	0.44
1:O:168:MET:CE	1:O:175:TYR:CG	3.00	0.44
1:P:160:LEU:HD21	1:P:283:ARG:O	2.17	0.44
1:P:191:CYS:HG	1:P:244:CYS:CB	2.30	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:142:MET:HE3	1:Q:152:MET:HE2	0.48	0.44
1:G:258:VAL:HG11	1:G:260:VAL:HG23	1.99	0.44
1:I:176:GLN:O	1:I:176:GLN:HG3	2.18	0.44
1:I:201:GLN:O	1:I:202:THR:HB	2.18	0.44
1:K:127:PHE:CZ	1:K:140:VAL:HG21	2.52	0.44
1:K:148:LEU:HD22	1:K:151:ASP:OD2	2.18	0.44
1:M:168:MET:HE2	1:M:175:TYR:CG	2.52	0.44
1:N:258:VAL:HG11	1:N:260:VAL:HG23	1.99	0.44
1:O:150:LEU:HG	1:P:290:LYS:CE	2.48	0.44
1:O:176:GLN:HG3	1:O:176:GLN:O	2.17	0.44
1:Q:162:GLU:HB2	1:Q:253:GLY:O	2.07	0.44
1:F:178:THR:N	1:F:182:ASN:HD22	2.13	0.44
1:G:307:ILE:HA	1:G:310:MET:HE2	2.00	0.44
1:H:107:LEU:HD23	1:H:111:TRP:O	2.18	0.44
1:J:168:MET:HE2	1:J:175:TYR:CG	2.53	0.44
1:K:160:LEU:HD21	1:K:283:ARG:O	2.17	0.44
1:L:178:THR:HB	1:L:179:ASP:OD1	2.18	0.44
1:Q:178:THR:HB	1:Q:179:ASP:OD1	2.18	0.44
1:Q:275:PRO:HD2	1:Q:276:THR:N	2.31	0.44
1:F:178:THR:HB	1:F:179:ASP:OD1	2.18	0.44
1:G:83:LEU:CD2	1:G:139:VAL:HG13	2.43	0.44
1:H:178:THR:HB	1:H:179:ASP:OD1	2.18	0.44
1:J:160:LEU:HD21	1:J:283:ARG:O	2.17	0.44
1:J:186:SER:HB3	1:J:246:ILE:HG13	1.98	0.44
1:K:83:LEU:CD2	1:K:139:VAL:HG13	2.43	0.44
1:K:170:ILE:HD11	1:K:239:VAL:HG21	1.98	0.44
1:N:176:GLN:O	1:N:176:GLN:HG3	2.17	0.44
1:Q:176:GLN:O	1:Q:176:GLN:HG3	2.17	0.44
1:B:125:ALA:HB1	1:B:223:LYS:CG	2.45	0.43
1:B:178:THR:N	1:B:182:ASN:HD22	2.13	0.43
1:G:275:PRO:HD2	1:G:276:THR:N	2.31	0.43
1:H:176:GLN:O	1:H:176:GLN:HG3	2.16	0.43
1:H:197:PRO:HG2	1:H:205:ILE:HG23	1.99	0.43
1:H:275:PRO:HD2	1:H:276:THR:N	2.31	0.43
1:I:205:ILE:CD1	1:J:104:GLN:HB2	2.40	0.43
1:J:83:LEU:CD2	1:J:139:VAL:HG13	2.44	0.43
1:J:107:LEU:HD23	1:J:111:TRP:O	2.18	0.43
1:J:174:TYR:CG	1:J:198:LEU:HD11	2.53	0.43
1:J:258:VAL:HG11	1:J:260:VAL:HG23	1.99	0.43
1:K:108:THR:HG23	1:K:109:LYS:H	1.78	0.43
1:K:178:THR:HB	1:K:179:ASP:OD1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:149:GLN:HE22	1:M:265:GLY:C	2.03	0.43
1:L:258:VAL:HG11	1:L:260:VAL:HG23	1.99	0.43
1:L:275:PRO:HD2	1:L:276:THR:N	2.31	0.43
1:M:168:MET:CE	1:M:175:TYR:CG	3.00	0.43
1:O:174:TYR:CD1	1:O:198:LEU:HD13	2.34	0.43
1:O:201:GLN:O	1:O:202:THR:HB	2.18	0.43
1:F:104:GLN:CB	1:H:205:ILE:CD1	2.81	0.43
1:G:179:ASP:C	1:G:181:ALA:H	2.19	0.43
1:G:201:GLN:O	1:G:202:THR:HB	2.18	0.43
1:H:170:ILE:CG2	1:H:237:LEU:O	2.67	0.43
1:I:160:LEU:HD21	1:I:283:ARG:O	2.17	0.43
1:I:258:VAL:HG11	1:I:260:VAL:HG23	1.99	0.43
1:K:107:LEU:HD23	1:K:111:TRP:O	2.18	0.43
1:L:150:LEU:HG	1:M:290:LYS:CE	2.48	0.43
1:L:290:LYS:CE	1:N:150:LEU:HG	2.48	0.43
1:M:125:ALA:O	1:M:128:SER:OG	2.31	0.43
1:M:142:MET:HE2	1:M:142:MET:HB3	1.79	0.43
1:N:107:LEU:HD23	1:N:111:TRP:O	2.18	0.43
1:Q:201:GLN:O	1:Q:202:THR:HB	2.18	0.43
1:Q:302:TYR:O	1:Q:306:ILE:HG13	2.18	0.43
1:B:107:LEU:HD23	1:B:111:TRP:O	2.18	0.43
1:B:201:GLN:O	1:B:202:THR:HB	2.18	0.43
1:G:144:TYR:HH	1:G:146:ALA:HB2	1.80	0.43
1:J:201:GLN:O	1:J:202:THR:HB	2.18	0.43
1:K:73:GLU:O	1:K:73:GLU:CG	2.63	0.43
1:K:111:TRP:HA	1:K:112:PRO:HD2	1.85	0.43
1:K:174:TYR:CG	1:K:198:LEU:HD11	2.53	0.43
1:L:158:LEU:CD2	1:L:185:ILE:HD13	2.44	0.43
1:L:201:GLN:O	1:L:202:THR:HB	2.17	0.43
1:L:205:ILE:CG1	1:M:104:GLN:CD	2.83	0.43
1:L:302:TYR:O	1:L:306:ILE:HG13	2.19	0.43
1:M:150:LEU:HG	1:N:290:LYS:CE	2.48	0.43
1:O:119:LYS:HD3	1:O:119:LYS:N	2.34	0.43
1:O:170:ILE:CG2	1:O:237:LEU:O	2.67	0.43
1:P:107:LEU:HD23	1:P:111:TRP:O	2.18	0.43
1:P:119:LYS:N	1:P:119:LYS:HD3	2.34	0.43
1:P:191:CYS:N	1:P:244:CYS:SG	2.91	0.43
1:F:107:LEU:HD23	1:F:111:TRP:O	2.18	0.43
1:H:175:TYR:HE1	1:H:237:LEU:HD22	1.79	0.43
1:H:258:VAL:HG11	1:H:260:VAL:HG23	1.99	0.43
1:I:174:TYR:CG	1:I:198:LEU:HD11	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:191:CYS:N	1:I:244:CYS:SG	2.91	0.43
1:J:191:CYS:HG	1:J:244:CYS:CB	2.30	0.43
1:M:174:TYR:CG	1:M:198:LEU:HD11	2.53	0.43
1:M:258:VAL:HG11	1:M:260:VAL:HG23	1.99	0.43
1:M:268:VAL:HG13	1:N:286:ARG:NH1	2.30	0.43
1:N:191:CYS:N	1:N:244:CYS:SG	2.91	0.43
1:O:290:LYS:CA	1:Q:150:LEU:CD2	2.93	0.43
1:B:258:VAL:HG11	1:B:260:VAL:HG23	1.99	0.43
1:I:125:ALA:HB1	1:I:223:LYS:CG	2.45	0.43
1:I:178:THR:HB	1:I:179:ASP:OD1	2.18	0.43
1:L:107:LEU:HD23	1:L:111:TRP:O	2.18	0.43
1:L:119:LYS:HD3	1:L:119:LYS:N	2.34	0.43
1:L:170:ILE:CG2	1:L:237:LEU:O	2.67	0.43
1:M:302:TYR:O	1:M:306:ILE:HG13	2.19	0.43
1:N:158:LEU:CD2	1:N:185:ILE:HD13	2.44	0.43
1:Q:258:VAL:HG11	1:Q:260:VAL:HG23	1.99	0.43
1:B:129:VAL:C	1:B:131:PRO:HD3	2.28	0.43
1:B:178:THR:HB	1:B:179:ASP:OD1	2.18	0.43
1:B:186:SER:HB3	1:B:246:ILE:CB	2.49	0.43
1:F:106:PHE:CE2	1:F:303:VAL:HG21	2.54	0.43
1:F:186:SER:HB3	1:F:246:ILE:CB	2.49	0.43
1:G:176:GLN:O	1:G:176:GLN:HG3	2.19	0.43
1:I:107:LEU:HD23	1:I:111:TRP:O	2.18	0.43
1:I:119:LYS:HD3	1:I:119:LYS:N	2.34	0.43
1:J:119:LYS:N	1:J:119:LYS:HD3	2.34	0.43
1:J:168:MET:CE	1:J:175:TYR:CG	3.00	0.43
1:J:205:ILE:CD1	1:K:104:GLN:CB	2.81	0.43
1:L:106:PHE:CE2	1:L:303:VAL:HG21	2.54	0.43
1:M:107:LEU:HD23	1:M:111:TRP:O	2.18	0.43
1:M:176:GLN:O	1:M:176:GLN:HG3	2.19	0.43
1:O:106:PHE:CE2	1:O:303:VAL:HG21	2.54	0.43
1:O:174:TYR:CG	1:O:198:LEU:HD11	2.53	0.43
1:O:302:TYR:O	1:O:306:ILE:HG13	2.19	0.43
1:P:201:GLN:O	1:P:202:THR:HB	2.18	0.43
1:P:258:VAL:HG11	1:P:260:VAL:HG23	1.99	0.43
1:Q:174:TYR:CG	1:Q:198:LEU:HD11	2.53	0.43
1:F:302:TYR:O	1:F:306:ILE:HG13	2.19	0.43
1:H:196:CYS:HA	1:H:197:PRO:HD2	1.83	0.43
1:I:92:GLU:O	1:I:92:GLU:HG2	2.19	0.43
1:I:170:ILE:CG2	1:I:237:LEU:O	2.67	0.43
1:K:119:LYS:N	1:K:119:LYS:HD3	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:186:SER:HB3	1:K:246:ILE:CB	2.49	0.43
1:N:75:THR:CG2	1:N:79:SER:OG	2.67	0.43
1:P:170:ILE:CG2	1:P:237:LEU:O	2.67	0.43
1:P:178:THR:HB	1:P:179:ASP:OD1	2.18	0.43
1:P:302:TYR:O	1:P:306:ILE:HG13	2.19	0.43
1:Q:92:GLU:HG2	1:Q:92:GLU:O	2.19	0.43
1:B:302:TYR:O	1:B:306:ILE:HG13	2.19	0.43
1:F:174:TYR:CG	1:F:198:LEU:HD11	2.53	0.43
1:H:83:LEU:CD2	1:H:139:VAL:HG13	2.43	0.43
1:H:253:GLY:HA2	1:H:254:PRO:HD3	1.61	0.43
1:M:186:SER:HB3	1:M:246:ILE:CB	2.49	0.43
1:O:178:THR:HB	1:O:179:ASP:OD1	2.18	0.43
1:O:178:THR:N	1:O:182:ASN:HD22	2.13	0.43
1:P:186:SER:HB3	1:P:246:ILE:CB	2.49	0.43
1:P:197:PRO:HG2	1:P:205:ILE:HG23	1.99	0.43
1:B:168:MET:CE	1:B:175:TYR:CG	3.00	0.43
1:F:176:GLN:O	1:F:176:GLN:HG3	2.18	0.43
1:F:290:LYS:CE	1:H:150:LEU:HG	2.47	0.43
1:I:106:PHE:CE2	1:I:303:VAL:HG21	2.54	0.43
1:J:170:ILE:CG2	1:J:237:LEU:O	2.67	0.43
1:K:170:ILE:CG2	1:K:237:LEU:O	2.67	0.43
1:L:142:MET:HE1	1:L:152:MET:HB3	2.00	0.43
1:L:186:SER:HB3	1:L:246:ILE:CB	2.49	0.43
1:M:170:ILE:CG2	1:M:237:LEU:O	2.67	0.43
1:N:178:THR:HB	1:N:179:ASP:OD1	2.18	0.43
1:O:290:LYS:CE	1:Q:150:LEU:HG	2.48	0.43
1:Q:107:LEU:HD23	1:Q:111:TRP:O	2.18	0.43
1:G:125:ALA:HB1	1:G:223:LYS:CG	2.45	0.43
1:G:302:TYR:O	1:G:306:ILE:HG13	2.19	0.43
1:H:168:MET:HE2	1:H:175:TYR:CG	2.54	0.43
1:I:150:LEU:HG	1:J:290:LYS:CE	2.48	0.43
1:I:257:ASN:C	1:I:310:MET:SD	2.93	0.43
1:J:197:PRO:HG2	1:J:205:ILE:HG23	1.99	0.43
1:M:119:LYS:HD3	1:M:119:LYS:N	2.34	0.43
1:N:174:TYR:CG	1:N:198:LEU:HD11	2.53	0.43
1:N:178:THR:N	1:N:182:ASN:HD22	2.13	0.43
1:Q:186:SER:HB3	1:Q:246:ILE:CB	2.49	0.43
1:B:174:TYR:CG	1:B:198:LEU:HD11	2.53	0.42
1:G:107:LEU:HD23	1:G:111:TRP:O	2.18	0.42
1:G:170:ILE:CG2	1:G:237:LEU:O	2.67	0.42
1:H:69:ASN:O	1:H:70:SER:CB	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:119:LYS:N	1:H:119:LYS:HD3	2.34	0.42
1:I:290:LYS:CE	1:K:150:LEU:HG	2.48	0.42
1:J:87:THR:HG1	1:J:122:THR:HG22	1.81	0.42
1:J:126:SER:HA	1:J:223:LYS:HZ2	1.75	0.42
1:J:175:TYR:O	1:J:235:HIS:N	2.41	0.42
1:K:106:PHE:CE2	1:K:303:VAL:HG21	2.54	0.42
1:L:175:TYR:O	1:L:235:HIS:N	2.43	0.42
1:M:257:ASN:C	1:M:310:MET:SD	2.93	0.42
1:Q:170:ILE:CG2	1:Q:237:LEU:O	2.67	0.42
1:B:170:ILE:CG2	1:B:237:LEU:O	2.67	0.42
1:F:170:ILE:CG2	1:F:237:LEU:O	2.67	0.42
1:F:201:GLN:O	1:F:202:THR:HB	2.18	0.42
1:H:302:TYR:O	1:H:306:ILE:HG13	2.19	0.42
1:I:104:GLN:HB3	1:K:205:ILE:HD11	1.88	0.42
1:I:158:LEU:CD2	1:I:185:ILE:HD13	2.44	0.42
1:I:286:ARG:NH1	1:K:268:VAL:HG13	2.30	0.42
1:N:106:PHE:CE2	1:N:303:VAL:HG21	2.54	0.42
1:N:186:SER:HB3	1:N:246:ILE:CB	2.49	0.42
1:N:302:TYR:O	1:N:306:ILE:HG13	2.19	0.42
1:O:107:LEU:HD23	1:O:111:TRP:O	2.18	0.42
1:P:125:ALA:HB1	1:P:223:LYS:CG	2.45	0.42
1:P:257:ASN:C	1:P:310:MET:SD	2.93	0.42
1:B:174:TYR:CD1	1:B:198:LEU:HD13	2.35	0.42
1:H:191:CYS:N	1:H:244:CYS:SG	2.91	0.42
1:J:302:TYR:O	1:J:306:ILE:HG13	2.19	0.42
1:M:168:MET:HE2	1:M:175:TYR:CD1	2.51	0.42
1:N:103:SER:CB	1:P:173:TYR:OH	2.66	0.42
1:N:125:ALA:O	1:N:128:SER:OG	2.31	0.42
1:O:257:ASN:C	1:O:310:MET:SD	2.93	0.42
1:B:142:MET:HE3	1:B:152:MET:HE2	0.53	0.42
1:G:178:THR:HB	1:G:179:ASP:OD1	2.18	0.42
1:H:106:PHE:CE2	1:H:303:VAL:HG21	2.54	0.42
1:H:148:LEU:O	1:H:151:ASP:HB2	2.20	0.42
1:I:174:TYR:HD1	1:I:234:ASN:HB3	1.73	0.42
1:J:186:SER:HB3	1:J:246:ILE:CB	2.49	0.42
1:K:302:TYR:O	1:K:306:ILE:HG13	2.19	0.42
1:N:170:ILE:CG2	1:N:237:LEU:O	2.67	0.42
1:Q:119:LYS:HD3	1:Q:119:LYS:N	2.34	0.42
1:Q:257:ASN:C	1:Q:310:MET:SD	2.93	0.42
1:B:148:LEU:O	1:B:151:ASP:N	2.53	0.42
1:B:176:GLN:O	1:B:176:GLN:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:142:MET:HE1	1:H:152:MET:HE1	1.86	0.42
1:I:302:TYR:O	1:I:306:ILE:HG13	2.19	0.42
1:J:106:PHE:CE2	1:J:303:VAL:HG21	2.54	0.42
1:M:106:PHE:CE2	1:M:303:VAL:HG21	2.54	0.42
1:P:92:GLU:O	1:P:92:GLU:HG2	2.19	0.42
1:Q:307:ILE:HA	1:Q:310:MET:HE2	2.01	0.42
1:B:92:GLU:O	1:B:92:GLU:HG2	2.19	0.42
1:B:168:MET:HE3	1:B:175:TYR:CG	2.51	0.42
1:G:186:SER:HB3	1:G:246:ILE:CB	2.49	0.42
1:H:289:TRP:C	1:H:289:TRP:CD1	2.93	0.42
1:J:92:GLU:O	1:J:92:GLU:HG2	2.19	0.42
1:L:92:GLU:O	1:L:92:GLU:HG2	2.19	0.42
1:L:275:PRO:HG2	1:M:306:ILE:HG12	2.02	0.42
1:O:81:LEU:HB3	1:O:116:VAL:HG22	2.02	0.42
1:O:186:SER:HB3	1:O:246:ILE:CB	2.49	0.42
1:B:289:TRP:CD1	1:B:289:TRP:C	2.93	0.42
1:G:142:MET:HE2	1:G:142:MET:HB3	1.72	0.42
1:H:75:THR:O	1:H:79:SER:OG	2.33	0.42
1:H:92:GLU:O	1:H:92:GLU:HG2	2.19	0.42
1:H:158:LEU:CD2	1:H:185:ILE:HD13	2.44	0.42
1:J:191:CYS:N	1:J:244:CYS:SG	2.91	0.42
1:K:154:GLU:OE1	1:K:225:VAL:CA	2.59	0.42
1:N:92:GLU:HG2	1:N:92:GLU:O	2.19	0.42
1:P:174:TYR:CG	1:P:198:LEU:HD11	2.53	0.42
1:P:253:GLY:HA2	1:P:254:PRO:HD3	1.61	0.42
1:F:81:LEU:HB3	1:F:116:VAL:HG22	2.02	0.42
1:F:306:ILE:HG12	1:H:275:PRO:HG2	2.02	0.42
1:J:149:GLN:HE22	1:K:265:GLY:C	2.07	0.42
1:L:191:CYS:N	1:L:244:CYS:SG	2.91	0.42
1:M:142:MET:HE1	1:M:152:MET:CE	2.28	0.42
1:M:303:VAL:HG23	1:M:303:VAL:H	1.56	0.42
1:O:175:TYR:O	1:O:235:HIS:N	2.40	0.42
1:O:191:CYS:N	1:O:244:CYS:SG	2.91	0.42
1:P:144:TYR:CD2	1:P:145:ASP:N	2.77	0.42
1:P:303:VAL:O	1:P:307:ILE:HG12	2.20	0.42
1:Q:106:PHE:CE2	1:Q:303:VAL:HG21	2.54	0.42
1:Q:159:ILE:HG23	1:Q:258:VAL:CG2	2.11	0.42
1:B:70:SER:O	1:B:71:THR:HB	2.19	0.42
1:B:106:PHE:CE2	1:B:303:VAL:HG21	2.54	0.42
1:F:150:LEU:HG	1:G:290:LYS:CE	2.48	0.42
1:F:175:TYR:O	1:F:235:HIS:N	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:303:VAL:O	1:F:307:ILE:HG12	2.20	0.42
1:G:117:TYR:CD2	1:O:167:PRO:HG2	2.53	0.42
1:G:175:TYR:O	1:G:234:ASN:HA	2.19	0.42
1:H:186:SER:HB3	1:H:246:ILE:CB	2.49	0.42
1:H:303:VAL:O	1:H:307:ILE:HG12	2.20	0.42
1:I:253:GLY:HA2	1:I:254:PRO:HD3	1.61	0.42
1:J:252:LEU:CD2	1:J:252:LEU:N	2.75	0.42
1:J:275:PRO:HG2	1:K:306:ILE:HG12	2.02	0.42
1:K:81:LEU:HB3	1:K:116:VAL:HG22	2.02	0.42
1:K:92:GLU:O	1:K:92:GLU:HG2	2.19	0.42
1:L:111:TRP:HA	1:L:112:PRO:HD2	1.85	0.42
1:N:174:TYR:HD1	1:N:234:ASN:HB3	1.73	0.42
1:O:92:GLU:O	1:O:92:GLU:HG2	2.19	0.42
1:O:303:VAL:O	1:O:307:ILE:HG12	2.20	0.42
1:B:81:LEU:HB3	1:B:116:VAL:HG22	2.02	0.42
1:B:119:LYS:N	1:B:119:LYS:HD3	2.34	0.42
1:F:119:LYS:N	1:F:119:LYS:HD3	2.34	0.42
1:F:275:PRO:HG2	1:G:306:ILE:HG12	2.02	0.42
1:G:92:GLU:O	1:G:92:GLU:HG2	2.19	0.42
1:H:174:TYR:CG	1:H:198:LEU:HD11	2.53	0.42
1:J:303:VAL:O	1:J:307:ILE:HG12	2.20	0.42
1:O:302:TYR:CD1	1:Q:274:ASP:HB2	2.55	0.42
1:P:87:THR:HG1	1:P:122:THR:HG22	1.77	0.42
1:B:191:CYS:N	1:B:244:CYS:SG	2.91	0.41
1:F:196:CYS:HA	1:F:197:PRO:HD2	1.83	0.41
1:G:303:VAL:O	1:G:307:ILE:HG12	2.20	0.41
1:I:126:SER:HA	1:I:223:LYS:HZ2	1.73	0.41
1:I:148:LEU:HD22	1:I:151:ASP:OD2	2.20	0.41
1:I:186:SER:HB3	1:I:246:ILE:CB	2.49	0.41
1:I:303:VAL:O	1:I:307:ILE:HG12	2.20	0.41
1:L:289:TRP:C	1:L:289:TRP:CD1	2.93	0.41
1:L:306:ILE:HG12	1:N:275:PRO:HG2	2.02	0.41
1:M:289:TRP:C	1:M:289:TRP:CD1	2.93	0.41
1:N:81:LEU:HB3	1:N:116:VAL:HG22	2.02	0.41
1:N:119:LYS:HD3	1:N:119:LYS:N	2.34	0.41
1:O:142:MET:HE3	1:O:152:MET:HE2	0.53	0.41
1:P:106:PHE:CE2	1:P:303:VAL:HG21	2.54	0.41
1:P:274:ASP:HB2	1:Q:302:TYR:CD1	2.55	0.41
1:P:275:PRO:HG2	1:Q:306:ILE:HG12	2.02	0.41
1:B:170:ILE:CD1	1:B:239:VAL:HG23	2.43	0.41
1:F:125:ALA:HB1	1:F:223:LYS:CG	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:274:ASP:HB2	1:G:302:TYR:CD1	2.55	0.41
1:G:106:PHE:CE2	1:G:303:VAL:HG21	2.54	0.41
1:G:119:LYS:N	1:G:119:LYS:HD3	2.34	0.41
1:G:148:LEU:O	1:G:151:ASP:HB2	2.19	0.41
1:G:289:TRP:C	1:G:289:TRP:CD1	2.93	0.41
1:H:140:VAL:CG1	1:H:260:VAL:HG22	2.51	0.41
1:J:303:VAL:HG23	1:J:303:VAL:H	1.56	0.41
1:K:289:TRP:C	1:K:289:TRP:CD1	2.93	0.41
1:M:85:TYR:CZ	1:M:98:TRP:CH2	3.08	0.41
1:M:303:VAL:O	1:M:307:ILE:HG12	2.20	0.41
1:N:93:ILE:HG23	1:N:293:TRP:HE1	1.85	0.41
1:O:85:TYR:CZ	1:O:98:TRP:CH2	3.08	0.41
1:P:83:LEU:CD2	1:P:139:VAL:HG13	2.43	0.41
1:P:93:ILE:HG23	1:P:293:TRP:HE1	1.85	0.41
1:P:142:MET:HE3	1:P:152:MET:HE2	0.50	0.41
1:P:256:GLU:OE1	1:P:256:GLU:HA	2.20	0.41
1:Q:93:ILE:HG23	1:Q:293:TRP:HE1	1.85	0.41
1:Q:289:TRP:C	1:Q:289:TRP:CD1	2.93	0.41
1:B:303:VAL:O	1:B:307:ILE:HG12	2.20	0.41
1:F:87:THR:HG1	1:F:122:THR:HG22	1.76	0.41
1:I:302:TYR:CD1	1:K:274:ASP:HB2	2.55	0.41
1:I:306:ILE:HG12	1:K:275:PRO:HG2	2.02	0.41
1:J:256:GLU:OE1	1:J:256:GLU:HA	2.21	0.41
1:K:303:VAL:O	1:K:307:ILE:HG12	2.20	0.41
1:L:307:ILE:HA	1:L:310:MET:HE2	2.01	0.41
1:M:81:LEU:HB3	1:M:116:VAL:HG22	2.02	0.41
1:M:196:CYS:HA	1:M:197:PRO:HD2	1.83	0.41
1:P:83:LEU:HD23	1:P:139:VAL:CG1	2.48	0.41
1:P:140:VAL:CG1	1:P:260:VAL:HG22	2.51	0.41
1:Q:303:VAL:O	1:Q:307:ILE:HG12	2.20	0.41
1:F:92:GLU:O	1:F:92:GLU:HG2	2.19	0.41
1:F:256:GLU:OE1	1:F:256:GLU:HA	2.21	0.41
1:G:69:ASN:O	1:G:70:SER:CB	2.59	0.41
1:G:81:LEU:HB3	1:G:116:VAL:HG22	2.02	0.41
1:G:174:TYR:CG	1:G:198:LEU:HD11	2.53	0.41
1:G:256:GLU:OE1	1:G:256:GLU:HA	2.21	0.41
1:H:85:TYR:CZ	1:H:98:TRP:CH2	3.08	0.41
1:J:274:ASP:HB2	1:K:302:TYR:CD1	2.55	0.41
1:L:85:TYR:CZ	1:L:98:TRP:CH2	3.09	0.41
1:L:274:ASP:HB2	1:M:302:TYR:CD1	2.55	0.41
1:L:302:TYR:CD1	1:N:274:ASP:HB2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:83:LEU:CD2	1:N:139:VAL:HG13	2.44	0.41
1:N:303:VAL:O	1:N:307:ILE:HG12	2.20	0.41
1:O:274:ASP:HB2	1:P:302:TYR:CD1	2.55	0.41
1:O:306:ILE:HG12	1:Q:275:PRO:HG2	2.02	0.41
1:B:85:TYR:CZ	1:B:98:TRP:CH2	3.08	0.41
1:B:174:TYR:HD1	1:B:234:ASN:HB3	1.73	0.41
1:G:140:VAL:CG1	1:G:260:VAL:HG22	2.50	0.41
1:H:93:ILE:HG23	1:H:293:TRP:HE1	1.86	0.41
1:I:93:ILE:HG23	1:I:293:TRP:HE1	1.85	0.41
1:J:85:TYR:CZ	1:J:98:TRP:CH2	3.08	0.41
1:K:140:VAL:CG1	1:K:260:VAL:HG22	2.50	0.41
1:K:256:GLU:OE1	1:K:256:GLU:HA	2.21	0.41
1:M:92:GLU:O	1:M:92:GLU:HG2	2.19	0.41
1:M:174:TYR:HD1	1:M:234:ASN:HB3	1.73	0.41
1:N:289:TRP:C	1:N:289:TRP:CD1	2.93	0.41
1:O:140:VAL:CG1	1:O:260:VAL:HG22	2.50	0.41
1:P:178:THR:N	1:P:182:ASN:HD22	2.13	0.41
1:F:93:ILE:HG23	1:F:293:TRP:HE1	1.85	0.41
1:H:81:LEU:HB3	1:H:116:VAL:HG22	2.02	0.41
1:I:83:LEU:CD2	1:I:139:VAL:HG13	2.44	0.41
1:I:274:ASP:HB2	1:J:302:TYR:CD1	2.55	0.41
1:I:275:PRO:HG2	1:J:306:ILE:HG12	2.02	0.41
1:J:289:TRP:C	1:J:289:TRP:CD1	2.93	0.41
1:K:72:GLN:H	1:K:72:GLN:HG3	1.71	0.41
1:K:144:TYR:CE2	1:K:146:ALA:HA	2.55	0.41
1:K:174:TYR:HD1	1:K:234:ASN:HB3	1.73	0.41
1:L:81:LEU:HB3	1:L:116:VAL:HG22	2.02	0.41
1:N:257:ASN:C	1:N:310:MET:SD	2.93	0.41
1:P:205:ILE:CD1	1:Q:104:GLN:HB2	2.40	0.41
1:Q:85:TYR:CZ	1:Q:98:TRP:CH2	3.08	0.41
1:Q:191:CYS:N	1:Q:244:CYS:SG	2.91	0.41
1:F:253:GLY:HA2	1:F:254:PRO:HD3	1.60	0.41
1:F:302:TYR:CD1	1:H:274:ASP:HB2	2.55	0.41
1:G:85:TYR:CZ	1:G:98:TRP:CH2	3.08	0.41
1:H:144:TYR:CD1	1:H:265:GLY:HA3	2.54	0.41
1:K:137:TYR:CE2	1:K:307:ILE:HG23	2.56	0.41
1:L:127:PHE:CD2	1:L:155:LEU:CD2	2.64	0.41
1:L:154:GLU:CD	1:L:225:VAL:HA	2.41	0.41
1:M:140:VAL:CG1	1:M:260:VAL:HG22	2.50	0.41
1:Q:111:TRP:HA	1:Q:112:PRO:HD2	1.85	0.41
1:B:140:VAL:CG1	1:B:260:VAL:HG22	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:137:TYR:CE2	1:F:307:ILE:HG23	2.56	0.41
1:F:140:VAL:CG1	1:F:260:VAL:HG22	2.50	0.41
1:G:142:MET:HE1	1:G:152:MET:HB3	2.03	0.41
1:G:144:TYR:CD1	1:G:265:GLY:HA3	2.55	0.41
1:K:201:GLN:O	1:K:202:THR:CB	2.69	0.41
1:L:174:TYR:CG	1:L:198:LEU:HD11	2.53	0.41
1:L:268:VAL:HG13	1:M:286:ARG:NH1	2.30	0.41
1:N:85:TYR:CZ	1:N:98:TRP:CH2	3.08	0.41
1:O:229:VAL:CB	1:O:235:HIS:CE1	3.02	0.41
1:P:81:LEU:HB3	1:P:116:VAL:HG22	2.02	0.41
1:B:137:TYR:CE2	1:B:307:ILE:HG23	2.56	0.41
1:B:148:LEU:O	1:B:151:ASP:HB2	2.21	0.41
1:B:172:LEU:HB2	1:B:173:TYR:CD1	2.56	0.41
1:F:191:CYS:N	1:F:244:CYS:SG	2.91	0.41
1:F:293:TRP:O	1:F:297:TYR:CD1	2.66	0.41
1:G:172:LEU:HB2	1:G:173:TYR:CD1	2.56	0.41
1:G:274:ASP:HB2	1:H:302:TYR:CD1	2.55	0.41
1:I:256:GLU:OE1	1:I:256:GLU:HA	2.21	0.41
1:I:289:TRP:C	1:I:289:TRP:CD1	2.93	0.41
1:J:78:THR:O	1:J:78:THR:CG2	2.69	0.41
1:J:81:LEU:HB3	1:J:116:VAL:HG22	2.02	0.41
1:J:140:VAL:CG1	1:J:260:VAL:HG22	2.50	0.41
1:K:85:TYR:CZ	1:K:98:TRP:CH2	3.08	0.41
1:L:140:VAL:CG1	1:L:260:VAL:HG22	2.50	0.41
1:L:178:THR:N	1:L:182:ASN:HD22	2.13	0.41
1:L:252:LEU:HB2	1:L:253:GLY:H	1.31	0.41
1:M:137:TYR:CE2	1:M:307:ILE:HG23	2.56	0.41
1:M:274:ASP:HB2	1:N:302:TYR:CD1	2.55	0.41
1:M:275:PRO:HG2	1:N:306:ILE:HG12	2.02	0.41
1:N:140:VAL:CG1	1:N:260:VAL:HG22	2.51	0.41
1:O:275:PRO:HG2	1:P:306:ILE:HG12	2.02	0.41
1:P:85:TYR:CZ	1:P:98:TRP:CH2	3.08	0.41
1:P:148:LEU:HD22	1:P:151:ASP:OD2	2.21	0.41
1:Q:196:CYS:HA	1:Q:197:PRO:HD2	1.83	0.41
1:Q:256:GLU:OE1	1:Q:256:GLU:HA	2.21	0.41
1:I:111:TRP:HE3	1:I:115:SER:OG	2.04	0.41
1:L:93:ILE:HG23	1:L:293:TRP:HE1	1.85	0.41
1:L:137:TYR:CE2	1:L:307:ILE:HG23	2.56	0.41
1:O:172:LEU:HB2	1:O:173:TYR:CD1	2.56	0.41
1:P:172:LEU:HB2	1:P:173:TYR:CD1	2.56	0.41
1:B:201:GLN:O	1:B:202:THR:CB	2.69	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:85:TYR:CZ	1:F:98:TRP:CH2	3.08	0.40
1:F:154:GLU:OE1	1:F:225:VAL:CA	2.59	0.40
1:F:289:TRP:C	1:F:289:TRP:CD1	2.93	0.40
1:G:137:TYR:CE2	1:G:307:ILE:HG23	2.56	0.40
1:G:252:LEU:CD1	1:G:253:GLY:H	2.34	0.40
1:I:142:MET:HE3	1:I:152:MET:HE2	0.51	0.40
1:I:154:GLU:CD	1:I:225:VAL:HA	2.41	0.40
1:I:191:CYS:HG	1:I:244:CYS:HB3	1.85	0.40
1:J:137:TYR:CE2	1:J:307:ILE:HG23	2.56	0.40
1:L:142:MET:HE2	1:L:142:MET:HB3	1.75	0.40
1:L:303:VAL:O	1:L:307:ILE:HG12	2.20	0.40
1:O:256:GLU:OE1	1:O:256:GLU:HA	2.21	0.40
1:P:289:TRP:C	1:P:289:TRP:CD1	2.93	0.40
1:Q:137:TYR:CE2	1:Q:307:ILE:HG23	2.56	0.40
1:Q:140:VAL:CG1	1:Q:260:VAL:HG22	2.50	0.40
1:B:191:CYS:HG	1:B:244:CYS:CB	2.33	0.40
1:F:142:MET:HE3	1:F:152:MET:HE2	0.50	0.40
1:G:170:ILE:CD1	1:G:239:VAL:HG23	2.43	0.40
1:H:172:LEU:HB2	1:H:173:TYR:CD1	2.56	0.40
1:I:85:TYR:CZ	1:I:98:TRP:CH2	3.08	0.40
1:I:140:VAL:CG1	1:I:260:VAL:HG22	2.50	0.40
1:I:154:GLU:OE1	1:I:225:VAL:CA	2.59	0.40
1:K:252:LEU:CD2	1:K:252:LEU:N	2.75	0.40
1:L:201:GLN:O	1:L:202:THR:CB	2.69	0.40
1:M:172:LEU:HB2	1:M:173:TYR:CD1	2.56	0.40
1:M:175:TYR:O	1:M:235:HIS:N	2.50	0.40
1:M:191:CYS:N	1:M:244:CYS:SG	2.91	0.40
1:M:256:GLU:OE1	1:M:256:GLU:HA	2.21	0.40
1:N:175:TYR:O	1:N:235:HIS:N	2.41	0.40
1:O:111:TRP:HE3	1:O:115:SER:OG	2.04	0.40
1:O:142:MET:HE1	1:O:152:MET:HB3	2.02	0.40
1:P:111:TRP:HE3	1:P:115:SER:OG	2.05	0.40
1:P:201:GLN:O	1:P:202:THR:CB	2.69	0.40
1:Q:81:LEU:HB3	1:Q:116:VAL:HG22	2.02	0.40
1:Q:126:SER:CA	1:Q:223:LYS:HZ2	2.27	0.40
1:F:172:LEU:HB2	1:F:173:TYR:CD1	2.56	0.40
1:G:111:TRP:HE3	1:G:115:SER:OG	2.04	0.40
1:G:129:VAL:C	1:G:131:PRO:HD3	2.28	0.40
1:H:256:GLU:OE1	1:H:256:GLU:HA	2.21	0.40
1:J:175:TYR:HH	1:J:237:LEU:CD2	2.27	0.40
1:P:137:TYR:CE2	1:P:307:ILE:HG23	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:176:GLN:O	1:P:176:GLN:HG3	2.20	0.40
1:G:275:PRO:HG2	1:H:306:ILE:HG12	2.02	0.40
1:H:154:GLU:CD	1:H:225:VAL:HA	2.41	0.40
1:I:252:LEU:CD1	1:I:253:GLY:H	2.34	0.40
1:J:111:TRP:HE3	1:J:115:SER:OG	2.05	0.40
1:L:162:GLU:OE1	1:L:162:GLU:CA	2.70	0.40
1:O:78:THR:O	1:O:78:THR:CG2	2.69	0.40
1:O:162:GLU:OE1	1:O:162:GLU:CA	2.70	0.40
1:O:201:GLN:O	1:O:202:THR:CB	2.69	0.40
1:Q:172:LEU:HB2	1:Q:173:TYR:CD1	2.56	0.40
1:B:256:GLU:OE1	1:B:256:GLU:HA	2.21	0.40
1:F:201:GLN:O	1:F:202:THR:CB	2.69	0.40
1:G:191:CYS:N	1:G:244:CYS:SG	2.91	0.40
1:H:201:GLN:O	1:H:202:THR:CB	2.69	0.40
1:I:201:GLN:O	1:I:202:THR:CB	2.69	0.40
1:J:176:GLN:O	1:J:176:GLN:HG3	2.21	0.40
1:K:83:LEU:HD23	1:K:139:VAL:CG1	2.47	0.40
1:K:111:TRP:HE3	1:K:115:SER:OG	2.05	0.40
1:L:257:ASN:C	1:L:310:MET:SD	2.93	0.40
1:N:111:TRP:HE3	1:N:115:SER:OG	2.05	0.40
1:N:256:GLU:OE1	1:N:256:GLU:HA	2.21	0.40
1:O:93:ILE:HG23	1:O:293:TRP:HE1	1.85	0.40
1:O:234:ASN:C	1:O:235:HIS:CD2	2.95	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	B	253/255 (99%)	216 (85%)	26 (10%)	11 (4%)	2	26
1	F	253/255 (99%)	215 (85%)	26 (10%)	12 (5%)	2	24

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	G	253/255 (99%)	215 (85%)	27 (11%)	11 (4%)	2	26
1	H	253/255 (99%)	215 (85%)	26 (10%)	12 (5%)	2	24
1	I	253/255 (99%)	214 (85%)	28 (11%)	11 (4%)	2	26
1	J	253/255 (99%)	216 (85%)	26 (10%)	11 (4%)	2	26
1	K	253/255 (99%)	215 (85%)	27 (11%)	11 (4%)	2	26
1	L	253/255 (99%)	214 (85%)	28 (11%)	11 (4%)	2	26
1	M	253/255 (99%)	215 (85%)	27 (11%)	11 (4%)	2	26
1	N	253/255 (99%)	216 (85%)	26 (10%)	11 (4%)	2	26
1	O	253/255 (99%)	217 (86%)	25 (10%)	11 (4%)	2	26
1	P	253/255 (99%)	216 (85%)	26 (10%)	11 (4%)	2	26
1	Q	253/255 (99%)	215 (85%)	27 (11%)	11 (4%)	2	26
All	All	3289/3315 (99%)	2799 (85%)	345 (10%)	145 (4%)	4	25

All (145) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	69	ASN
1	B	71	THR
1	B	252	LEU
1	B	258	VAL
1	F	252	LEU
1	F	258	VAL
1	G	252	LEU
1	G	258	VAL
1	H	252	LEU
1	H	258	VAL
1	I	252	LEU
1	I	258	VAL
1	J	252	LEU
1	J	258	VAL
1	K	252	LEU
1	K	258	VAL
1	L	252	LEU
1	L	258	VAL
1	M	252	LEU
1	M	258	VAL
1	N	252	LEU
1	N	258	VAL

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	O	252	LEU
1	O	258	VAL
1	P	252	LEU
1	P	258	VAL
1	Q	252	LEU
1	Q	258	VAL
1	B	241	THR
1	B	275	PRO
1	F	70	SER
1	F	71	THR
1	F	241	THR
1	F	275	PRO
1	G	70	SER
1	G	71	THR
1	G	241	THR
1	G	275	PRO
1	H	70	SER
1	H	71	THR
1	H	241	THR
1	H	275	PRO
1	I	70	SER
1	I	71	THR
1	I	241	THR
1	I	275	PRO
1	J	70	SER
1	J	71	THR
1	J	241	THR
1	J	275	PRO
1	K	70	SER
1	K	71	THR
1	K	241	THR
1	K	275	PRO
1	L	70	SER
1	L	71	THR
1	L	241	THR
1	L	275	PRO
1	M	70	SER
1	M	71	THR
1	M	241	THR
1	M	275	PRO
1	N	70	SER
1	N	71	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	N	241	THR
1	N	275	PRO
1	O	70	SER
1	O	71	THR
1	O	241	THR
1	O	275	PRO
1	P	70	SER
1	P	71	THR
1	P	241	THR
1	P	275	PRO
1	Q	70	SER
1	Q	71	THR
1	Q	241	THR
1	Q	275	PRO
1	B	131	PRO
1	B	200	THR
1	B	209	THR
1	F	67	TYR
1	F	131	PRO
1	F	200	THR
1	F	209	THR
1	G	131	PRO
1	G	200	THR
1	G	209	THR
1	H	131	PRO
1	H	200	THR
1	H	209	THR
1	I	131	PRO
1	I	200	THR
1	I	209	THR
1	J	131	PRO
1	J	200	THR
1	J	209	THR
1	K	131	PRO
1	K	200	THR
1	K	209	THR
1	L	131	PRO
1	L	200	THR
1	L	209	THR
1	M	131	PRO
1	M	200	THR
1	M	209	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	N	131	PRO
1	N	200	THR
1	N	209	THR
1	O	131	PRO
1	O	200	THR
1	O	209	THR
1	P	131	PRO
1	P	200	THR
1	P	209	THR
1	Q	131	PRO
1	Q	200	THR
1	Q	209	THR
1	B	311	SER
1	F	311	SER
1	G	311	SER
1	H	311	SER
1	I	311	SER
1	J	311	SER
1	K	311	SER
1	L	311	SER
1	M	311	SER
1	N	311	SER
1	O	311	SER
1	P	311	SER
1	Q	311	SER
1	H	149	GLN
1	B	279	PRO
1	F	279	PRO
1	G	279	PRO
1	H	279	PRO
1	I	279	PRO
1	J	279	PRO
1	K	279	PRO
1	L	279	PRO
1	M	279	PRO
1	N	279	PRO
1	O	279	PRO
1	P	279	PRO
1	Q	279	PRO

### 5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	229/229 (100%)	205 (90%)	24 (10%)	7	30
1	F	229/229 (100%)	205 (90%)	24 (10%)	7	30
1	G	229/229 (100%)	204 (89%)	25 (11%)	6	29
1	H	229/229 (100%)	204 (89%)	25 (11%)	6	29
1	I	229/229 (100%)	204 (89%)	25 (11%)	6	29
1	J	229/229 (100%)	204 (89%)	25 (11%)	6	29
1	K	229/229 (100%)	205 (90%)	24 (10%)	7	30
1	L	229/229 (100%)	204 (89%)	25 (11%)	6	29
1	M	229/229 (100%)	204 (89%)	25 (11%)	6	29
1	N	229/229 (100%)	204 (89%)	25 (11%)	6	29
1	O	229/229 (100%)	205 (90%)	24 (10%)	7	30
1	P	229/229 (100%)	205 (90%)	24 (10%)	7	30
1	Q	229/229 (100%)	204 (89%)	25 (11%)	6	29
All	All	2977/2977 (100%)	2657 (89%)	320 (11%)	10	30

All (320) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	88	GLU
1	B	106	PHE
1	B	109	LYS
1	B	139	VAL
1	B	144	TYR
1	B	175	TYR
1	B	176	GLN
1	B	179	ASP
1	B	180	GLU
1	B	186	SER
1	B	187	MET
1	B	191	CYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	B	223	LYS
1	B	227	THR
1	B	229	VAL
1	B	243	THR
1	B	251	LYS
1	B	255	ARG
1	B	263	VAL
1	B	266	SER
1	B	268	VAL
1	B	274	ASP
1	B	277	THR
1	B	283	ARG
1	F	70	SER
1	F	88	GLU
1	F	106	PHE
1	F	139	VAL
1	F	144	TYR
1	F	175	TYR
1	F	176	GLN
1	F	179	ASP
1	F	180	GLU
1	F	186	SER
1	F	187	MET
1	F	191	CYS
1	F	223	LYS
1	F	227	THR
1	F	229	VAL
1	F	243	THR
1	F	251	LYS
1	F	255	ARG
1	F	263	VAL
1	F	266	SER
1	F	268	VAL
1	F	274	ASP
1	F	277	THR
1	F	283	ARG
1	G	70	SER
1	G	88	GLU
1	G	106	PHE
1	G	109	LYS
1	G	139	VAL
1	G	144	TYR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	G	175	TYR
1	G	176	GLN
1	G	179	ASP
1	G	180	GLU
1	G	186	SER
1	G	187	MET
1	G	191	CYS
1	G	223	LYS
1	G	227	THR
1	G	229	VAL
1	G	243	THR
1	G	251	LYS
1	G	255	ARG
1	G	263	VAL
1	G	266	SER
1	G	268	VAL
1	G	274	ASP
1	G	277	THR
1	G	283	ARG
1	H	70	SER
1	H	88	GLU
1	H	106	PHE
1	H	109	LYS
1	H	139	VAL
1	H	144	TYR
1	H	175	TYR
1	H	176	GLN
1	H	179	ASP
1	H	180	GLU
1	H	186	SER
1	H	187	MET
1	H	191	CYS
1	H	223	LYS
1	H	227	THR
1	H	229	VAL
1	H	243	THR
1	H	251	LYS
1	H	255	ARG
1	H	263	VAL
1	H	266	SER
1	H	268	VAL
1	H	274	ASP

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	H	277	THR
1	H	283	ARG
1	I	70	SER
1	I	88	GLU
1	I	106	PHE
1	I	109	LYS
1	I	139	VAL
1	I	144	TYR
1	I	175	TYR
1	I	176	GLN
1	I	179	ASP
1	I	180	GLU
1	I	186	SER
1	I	187	MET
1	I	191	CYS
1	I	223	LYS
1	I	227	THR
1	I	229	VAL
1	I	243	THR
1	I	251	LYS
1	I	255	ARG
1	I	263	VAL
1	I	266	SER
1	I	268	VAL
1	I	274	ASP
1	I	277	THR
1	I	283	ARG
1	J	70	SER
1	J	88	GLU
1	J	106	PHE
1	J	109	LYS
1	J	139	VAL
1	J	144	TYR
1	J	175	TYR
1	J	176	GLN
1	J	179	ASP
1	J	180	GLU
1	J	186	SER
1	J	187	MET
1	J	191	CYS
1	J	223	LYS
1	J	227	THR

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	J	229	VAL
1	J	243	THR
1	J	251	LYS
1	J	255	ARG
1	J	263	VAL
1	J	266	SER
1	J	268	VAL
1	J	274	ASP
1	J	277	THR
1	J	283	ARG
1	K	88	GLU
1	K	106	PHE
1	K	109	LYS
1	K	139	VAL
1	K	144	TYR
1	K	175	TYR
1	K	176	GLN
1	K	179	ASP
1	K	180	GLU
1	K	186	SER
1	K	187	MET
1	K	191	CYS
1	K	223	LYS
1	K	227	THR
1	K	229	VAL
1	K	243	THR
1	K	251	LYS
1	K	255	ARG
1	K	263	VAL
1	K	266	SER
1	K	268	VAL
1	K	274	ASP
1	K	277	THR
1	K	283	ARG
1	L	70	SER
1	L	88	GLU
1	L	106	PHE
1	L	109	LYS
1	L	139	VAL
1	L	144	TYR
1	L	175	TYR
1	L	176	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	L	179	ASP
1	L	180	GLU
1	L	186	SER
1	L	187	MET
1	L	191	CYS
1	L	223	LYS
1	L	227	THR
1	L	229	VAL
1	L	243	THR
1	L	251	LYS
1	L	255	ARG
1	L	263	VAL
1	L	266	SER
1	L	268	VAL
1	L	274	ASP
1	L	277	THR
1	L	283	ARG
1	M	70	SER
1	M	88	GLU
1	M	106	PHE
1	M	109	LYS
1	M	139	VAL
1	M	144	TYR
1	M	175	TYR
1	M	176	GLN
1	M	179	ASP
1	M	180	GLU
1	M	186	SER
1	M	187	MET
1	M	191	CYS
1	M	223	LYS
1	M	227	THR
1	M	229	VAL
1	M	243	THR
1	M	251	LYS
1	M	255	ARG
1	M	263	VAL
1	M	266	SER
1	M	268	VAL
1	M	274	ASP
1	M	277	THR
1	M	283	ARG

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	N	70	SER
1	N	88	GLU
1	N	106	PHE
1	N	109	LYS
1	N	139	VAL
1	N	144	TYR
1	N	175	TYR
1	N	176	GLN
1	N	179	ASP
1	N	180	GLU
1	N	186	SER
1	N	187	MET
1	N	191	CYS
1	N	223	LYS
1	N	227	THR
1	N	229	VAL
1	N	243	THR
1	N	251	LYS
1	N	255	ARG
1	N	263	VAL
1	N	266	SER
1	N	268	VAL
1	N	274	ASP
1	N	277	THR
1	N	283	ARG
1	O	88	GLU
1	O	106	PHE
1	O	109	LYS
1	O	139	VAL
1	O	144	TYR
1	O	175	TYR
1	O	176	GLN
1	O	179	ASP
1	O	180	GLU
1	O	186	SER
1	O	187	MET
1	O	191	CYS
1	O	223	LYS
1	O	227	THR
1	O	229	VAL
1	O	243	THR
1	O	251	LYS

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	O	255	ARG
1	O	263	VAL
1	O	266	SER
1	O	268	VAL
1	O	274	ASP
1	O	277	THR
1	O	283	ARG
1	P	70	SER
1	P	88	GLU
1	P	106	PHE
1	P	139	VAL
1	P	144	TYR
1	P	175	TYR
1	P	176	GLN
1	P	179	ASP
1	P	180	GLU
1	P	186	SER
1	P	187	MET
1	P	191	CYS
1	P	223	LYS
1	P	227	THR
1	P	229	VAL
1	P	243	THR
1	P	251	LYS
1	P	255	ARG
1	P	263	VAL
1	P	266	SER
1	P	268	VAL
1	P	274	ASP
1	P	277	THR
1	P	283	ARG
1	Q	70	SER
1	Q	88	GLU
1	Q	106	PHE
1	Q	109	LYS
1	Q	139	VAL
1	Q	144	TYR
1	Q	175	TYR
1	Q	176	GLN
1	Q	179	ASP
1	Q	180	GLU
1	Q	186	SER

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Mol	Chain	Res	Type
1	Q	187	MET
1	Q	191	CYS
1	Q	223	LYS
1	Q	227	THR
1	Q	229	VAL
1	Q	243	THR
1	Q	251	LYS
1	Q	255	ARG
1	Q	263	VAL
1	Q	266	SER
1	Q	268	VAL
1	Q	274	ASP
1	Q	277	THR
1	Q	283	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (83) such sidechains are listed below:

Mol	Chain	Res	Type
1	B	69	ASN
1	B	182	ASN
1	B	235	HIS
1	B	248	ASN
1	B	257	ASN
1	B	262	GLN
1	B	288	ASN
1	F	69	ASN
1	F	182	ASN
1	F	235	HIS
1	F	248	ASN
1	F	257	ASN
1	F	262	GLN
1	G	69	ASN
1	G	182	ASN
1	G	235	HIS
1	G	248	ASN
1	G	257	ASN
1	G	262	GLN
1	H	69	ASN
1	H	182	ASN
1	H	235	HIS
1	H	248	ASN
1	H	257	ASN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	H	262	GLN
1	I	69	ASN
1	I	182	ASN
1	I	235	HIS
1	I	248	ASN
1	I	257	ASN
1	I	262	GLN
1	J	69	ASN
1	J	182	ASN
1	J	235	HIS
1	J	248	ASN
1	J	257	ASN
1	J	262	GLN
1	K	69	ASN
1	K	176	GLN
1	K	182	ASN
1	K	235	HIS
1	K	248	ASN
1	K	257	ASN
1	K	262	GLN
1	L	69	ASN
1	L	182	ASN
1	L	235	HIS
1	L	248	ASN
1	L	257	ASN
1	L	262	GLN
1	M	69	ASN
1	M	176	GLN
1	M	182	ASN
1	M	235	HIS
1	M	248	ASN
1	M	257	ASN
1	M	262	GLN
1	N	69	ASN
1	N	176	GLN
1	N	182	ASN
1	N	235	HIS
1	N	248	ASN
1	N	257	ASN
1	N	262	GLN
1	O	69	ASN
1	O	182	ASN

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Mol	Chain	Res	Type
1	O	235	HIS
1	O	248	ASN
1	O	257	ASN
1	O	262	GLN
1	P	69	ASN
1	P	176	GLN
1	P	182	ASN
1	P	235	HIS
1	P	248	ASN
1	P	257	ASN
1	P	262	GLN
1	Q	69	ASN
1	Q	182	ASN
1	Q	235	HIS
1	Q	248	ASN
1	Q	257	ASN
1	Q	262	GLN

### 5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

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

### 5.5 Carbohydrates [i](#)

26 monosaccharides are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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  $|Z| > 2$  is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
2	NAG	A	1	2	14,14,15	0.60	0	17,19,21	1.42	2 (11%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
2	NAG	A	2	2	14,14,15	1.02	1 (7%)	17,19,21	1.73	6 (35%)
2	NAG	C	1	2	14,14,15	0.62	0	17,19,21	1.43	2 (11%)
2	NAG	C	2	2	14,14,15	1.02	1 (7%)	17,19,21	1.73	6 (35%)
2	NAG	D	1	2	14,14,15	0.61	0	17,19,21	1.42	2 (11%)
2	NAG	D	2	2	14,14,15	1.02	1 (7%)	17,19,21	1.73	6 (35%)
2	NAG	E	1	2	14,14,15	0.59	0	17,19,21	1.42	2 (11%)
2	NAG	E	2	2	14,14,15	1.02	1 (7%)	17,19,21	1.72	6 (35%)
2	NAG	R	1	2	14,14,15	0.59	0	17,19,21	1.41	2 (11%)
2	NAG	R	2	2	14,14,15	1.03	1 (7%)	17,19,21	1.73	6 (35%)
2	NAG	S	1	2	14,14,15	0.59	0	17,19,21	1.41	2 (11%)
2	NAG	S	2	2	14,14,15	1.02	1 (7%)	17,19,21	1.73	6 (35%)
2	NAG	T	1	2	14,14,15	0.63	0	17,19,21	1.41	2 (11%)
2	NAG	T	2	2	14,14,15	1.01	1 (7%)	17,19,21	1.74	6 (35%)
2	NAG	U	1	2	14,14,15	0.60	0	17,19,21	1.42	2 (11%)
2	NAG	U	2	2	14,14,15	1.01	1 (7%)	17,19,21	1.73	6 (35%)
2	NAG	V	1	2	14,14,15	0.61	0	17,19,21	1.41	2 (11%)
2	NAG	V	2	2	14,14,15	1.02	1 (7%)	17,19,21	1.73	6 (35%)
2	NAG	W	1	2	14,14,15	0.61	0	17,19,21	1.42	2 (11%)
2	NAG	W	2	2	14,14,15	1.01	1 (7%)	17,19,21	1.74	6 (35%)
2	NAG	X	1	2	14,14,15	0.61	0	17,19,21	1.42	2 (11%)
2	NAG	X	2	2	14,14,15	1.02	1 (7%)	17,19,21	1.73	6 (35%)
2	NAG	Y	1	2	14,14,15	0.60	0	17,19,21	1.42	2 (11%)
2	NAG	Y	2	2	14,14,15	1.03	1 (7%)	17,19,21	1.73	6 (35%)
2	NAG	Z	1	2	14,14,15	0.59	0	17,19,21	1.41	2 (11%)
2	NAG	Z	2	2	14,14,15	1.02	1 (7%)	17,19,21	1.74	6 (35%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	A	1	2	-	0/6/23/26	0/1/1/1
2	NAG	A	2	2	-	1/6/23/26	0/1/1/1
2	NAG	C	1	2	-	0/6/23/26	0/1/1/1
2	NAG	C	2	2	-	1/6/23/26	0/1/1/1
2	NAG	D	1	2	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	D	2	2	-	1/6/23/26	0/1/1/1
2	NAG	E	1	2	-	0/6/23/26	0/1/1/1
2	NAG	E	2	2	-	1/6/23/26	0/1/1/1
2	NAG	R	1	2	-	0/6/23/26	0/1/1/1
2	NAG	R	2	2	-	1/6/23/26	0/1/1/1
2	NAG	S	1	2	-	0/6/23/26	0/1/1/1
2	NAG	S	2	2	-	1/6/23/26	0/1/1/1
2	NAG	T	1	2	-	0/6/23/26	0/1/1/1
2	NAG	T	2	2	-	1/6/23/26	0/1/1/1
2	NAG	U	1	2	-	0/6/23/26	0/1/1/1
2	NAG	U	2	2	-	1/6/23/26	0/1/1/1
2	NAG	V	1	2	-	0/6/23/26	0/1/1/1
2	NAG	V	2	2	-	1/6/23/26	0/1/1/1
2	NAG	W	1	2	-	0/6/23/26	0/1/1/1
2	NAG	W	2	2	-	1/6/23/26	0/1/1/1
2	NAG	X	1	2	-	0/6/23/26	0/1/1/1
2	NAG	X	2	2	-	1/6/23/26	0/1/1/1
2	NAG	Y	1	2	-	0/6/23/26	0/1/1/1
2	NAG	Y	2	2	-	1/6/23/26	0/1/1/1
2	NAG	Z	1	2	-	0/6/23/26	0/1/1/1
2	NAG	Z	2	2	-	1/6/23/26	0/1/1/1

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	X	2	NAG	C1-C2	2.79	1.56	1.52
2	C	2	NAG	C1-C2	2.78	1.56	1.52
2	R	2	NAG	C1-C2	2.76	1.56	1.52
2	V	2	NAG	C1-C2	2.74	1.56	1.52
2	Y	2	NAG	C1-C2	2.74	1.56	1.52
2	Z	2	NAG	C1-C2	2.74	1.56	1.52
2	A	2	NAG	C1-C2	2.73	1.56	1.52
2	D	2	NAG	C1-C2	2.73	1.56	1.52
2	S	2	NAG	C1-C2	2.71	1.56	1.52
2	E	2	NAG	C1-C2	2.69	1.56	1.52
2	W	2	NAG	C1-C2	2.69	1.56	1.52
2	U	2	NAG	C1-C2	2.68	1.56	1.52
2	T	2	NAG	C1-C2	2.68	1.56	1.52

All (104) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	1	NAG	C1-O5-C5	3.66	117.16	112.19
2	W	1	NAG	C1-O5-C5	3.66	117.16	112.19
2	X	1	NAG	C1-O5-C5	3.66	117.15	112.19
2	U	2	NAG	C2-N2-C7	3.65	128.10	122.90
2	V	2	NAG	C2-N2-C7	3.64	128.09	122.90
2	T	2	NAG	C2-N2-C7	3.64	128.09	122.90
2	Z	2	NAG	C2-N2-C7	3.64	128.09	122.90
2	C	2	NAG	C2-N2-C7	3.64	128.09	122.90
2	Y	1	NAG	C1-O5-C5	3.64	117.12	112.19
2	S	2	NAG	C2-N2-C7	3.64	128.08	122.90
2	A	1	NAG	C1-O5-C5	3.62	117.10	112.19
2	D	1	NAG	C1-O5-C5	3.62	117.10	112.19
2	A	2	NAG	C2-N2-C7	3.62	128.06	122.90
2	R	1	NAG	C1-O5-C5	3.62	117.10	112.19
2	T	1	NAG	C1-O5-C5	3.62	117.09	112.19
2	U	1	NAG	C1-O5-C5	3.62	117.09	112.19
2	E	1	NAG	C1-O5-C5	3.61	117.09	112.19
2	R	2	NAG	C2-N2-C7	3.61	128.04	122.90
2	W	2	NAG	C2-N2-C7	3.61	128.04	122.90
2	V	1	NAG	C1-O5-C5	3.60	117.08	112.19
2	D	2	NAG	C2-N2-C7	3.60	128.03	122.90
2	E	2	NAG	C2-N2-C7	3.60	128.02	122.90
2	X	2	NAG	C2-N2-C7	3.59	128.02	122.90
2	S	1	NAG	C1-O5-C5	3.59	117.06	112.19
2	Y	2	NAG	C2-N2-C7	3.59	128.01	122.90
2	Z	1	NAG	C1-O5-C5	3.57	117.03	112.19
2	C	1	NAG	O5-C1-C2	-3.21	106.22	111.29
2	U	1	NAG	O5-C1-C2	-3.17	106.28	111.29
2	S	1	NAG	O5-C1-C2	-3.17	106.28	111.29
2	X	1	NAG	O5-C1-C2	-3.17	106.29	111.29
2	E	1	NAG	O5-C1-C2	-3.16	106.30	111.29
2	D	1	NAG	O5-C1-C2	-3.16	106.30	111.29
2	W	1	NAG	O5-C1-C2	-3.16	106.30	111.29
2	A	1	NAG	O5-C1-C2	-3.15	106.31	111.29
2	R	1	NAG	O5-C1-C2	-3.14	106.32	111.29
2	Y	1	NAG	O5-C1-C2	-3.13	106.34	111.29
2	T	1	NAG	O5-C1-C2	-3.13	106.35	111.29
2	V	1	NAG	O5-C1-C2	-3.13	106.35	111.29
2	Z	1	NAG	O5-C1-C2	-3.12	106.36	111.29
2	V	2	NAG	C4-C3-C2	2.76	115.06	111.02
2	X	2	NAG	C4-C3-C2	2.75	115.05	111.02
2	S	2	NAG	C4-C3-C2	2.72	115.01	111.02
2	A	2	NAG	C4-C3-C2	2.72	115.01	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	2	NAG	C4-C3-C2	2.72	115.01	111.02
2	D	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	E	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	R	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	W	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	C	2	NAG	C4-C3-C2	2.71	114.99	111.02
2	Z	2	NAG	C4-C3-C2	2.70	114.97	111.02
2	U	2	NAG	C4-C3-C2	2.69	114.96	111.02
2	Y	2	NAG	C4-C3-C2	2.68	114.95	111.02
2	R	2	NAG	C1-O5-C5	2.66	115.79	112.19
2	Y	2	NAG	C1-O5-C5	2.63	115.76	112.19
2	D	2	NAG	C1-O5-C5	2.62	115.74	112.19
2	X	2	NAG	C1-O5-C5	2.62	115.74	112.19
2	Z	2	NAG	C1-O5-C5	2.62	115.74	112.19
2	W	2	NAG	C1-O5-C5	2.61	115.73	112.19
2	S	2	NAG	C1-O5-C5	2.60	115.72	112.19
2	A	2	NAG	C1-O5-C5	2.60	115.71	112.19
2	T	2	NAG	O7-C7-C8	-2.59	117.24	122.06
2	U	2	NAG	C1-O5-C5	2.59	115.70	112.19
2	W	2	NAG	O7-C7-N2	2.59	126.71	121.95
2	W	2	NAG	O7-C7-C8	-2.58	117.26	122.06
2	C	2	NAG	C1-O5-C5	2.58	115.69	112.19
2	Y	2	NAG	O7-C7-C8	-2.57	117.28	122.06
2	V	2	NAG	C1-O5-C5	2.57	115.67	112.19
2	Z	2	NAG	O7-C7-C8	-2.57	117.29	122.06
2	Y	2	NAG	O7-C7-N2	2.57	126.67	121.95
2	T	2	NAG	C1-O5-C5	2.57	115.67	112.19
2	E	2	NAG	C1-O5-C5	2.57	115.67	112.19
2	X	2	NAG	O7-C7-C8	-2.57	117.29	122.06
2	A	2	NAG	O7-C7-C8	-2.56	117.30	122.06
2	V	2	NAG	O7-C7-C8	-2.56	117.31	122.06
2	E	2	NAG	O7-C7-N2	2.56	126.65	121.95
2	U	2	NAG	O7-C7-C8	-2.55	117.32	122.06
2	C	2	NAG	O7-C7-C8	-2.55	117.32	122.06
2	S	2	NAG	O7-C7-C8	-2.55	117.32	122.06
2	X	2	NAG	O7-C7-N2	2.55	126.63	121.95
2	E	2	NAG	O7-C7-C8	-2.55	117.33	122.06
2	V	2	NAG	O7-C7-N2	2.55	126.63	121.95
2	U	2	NAG	O7-C7-N2	2.54	126.63	121.95
2	S	2	NAG	O7-C7-N2	2.54	126.63	121.95
2	A	2	NAG	O7-C7-N2	2.54	126.62	121.95
2	R	2	NAG	O7-C7-N2	2.54	126.62	121.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	T	2	NAG	O7-C7-N2	2.54	126.62	121.95
2	Z	2	NAG	O7-C7-N2	2.54	126.61	121.95
2	D	2	NAG	O7-C7-C8	-2.53	117.35	122.06
2	R	2	NAG	O7-C7-C8	-2.53	117.36	122.06
2	D	2	NAG	O7-C7-N2	2.52	126.59	121.95
2	C	2	NAG	O7-C7-N2	2.49	126.53	121.95
2	Y	2	NAG	O5-C5-C6	2.38	110.94	107.20
2	X	2	NAG	O5-C5-C6	2.38	110.93	107.20
2	D	2	NAG	O5-C5-C6	2.38	110.93	107.20
2	R	2	NAG	O5-C5-C6	2.38	110.93	107.20
2	Z	2	NAG	O5-C5-C6	2.37	110.91	107.20
2	U	2	NAG	O5-C5-C6	2.36	110.90	107.20
2	W	2	NAG	O5-C5-C6	2.36	110.90	107.20
2	A	2	NAG	O5-C5-C6	2.36	110.90	107.20
2	T	2	NAG	O5-C5-C6	2.36	110.90	107.20
2	S	2	NAG	O5-C5-C6	2.35	110.89	107.20
2	C	2	NAG	O5-C5-C6	2.35	110.89	107.20
2	E	2	NAG	O5-C5-C6	2.33	110.86	107.20
2	V	2	NAG	O5-C5-C6	2.31	110.83	107.20

There are no chirality outliers.

All (13) torsion outliers are listed below:

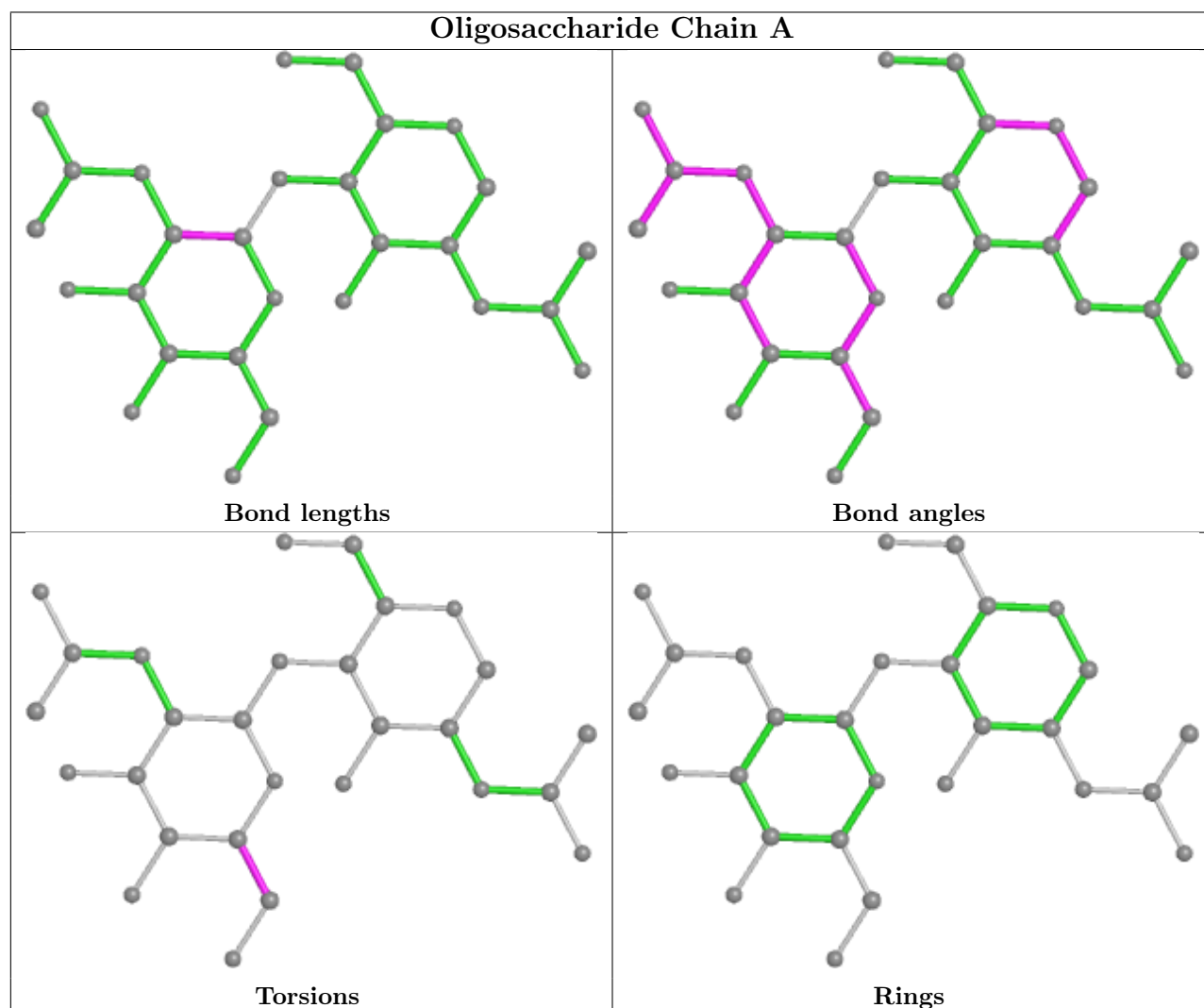
Mol	Chain	Res	Type	Atoms
2	A	2	NAG	O5-C5-C6-O6
2	C	2	NAG	O5-C5-C6-O6
2	D	2	NAG	O5-C5-C6-O6
2	R	2	NAG	O5-C5-C6-O6
2	S	2	NAG	O5-C5-C6-O6
2	T	2	NAG	O5-C5-C6-O6
2	U	2	NAG	O5-C5-C6-O6
2	V	2	NAG	O5-C5-C6-O6
2	W	2	NAG	O5-C5-C6-O6
2	X	2	NAG	O5-C5-C6-O6
2	Y	2	NAG	O5-C5-C6-O6
2	Z	2	NAG	O5-C5-C6-O6
2	E	2	NAG	O5-C5-C6-O6

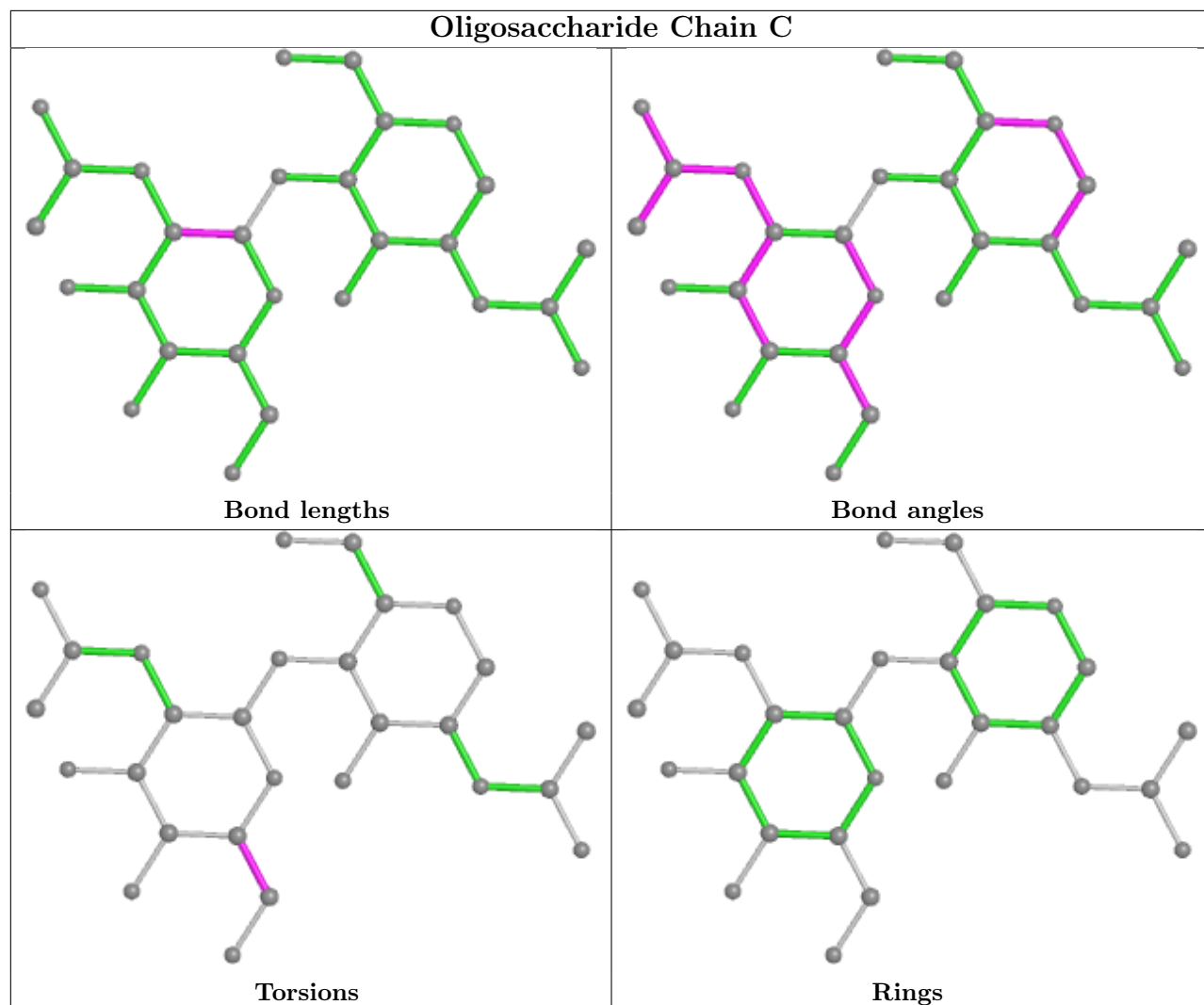
There are no ring outliers.

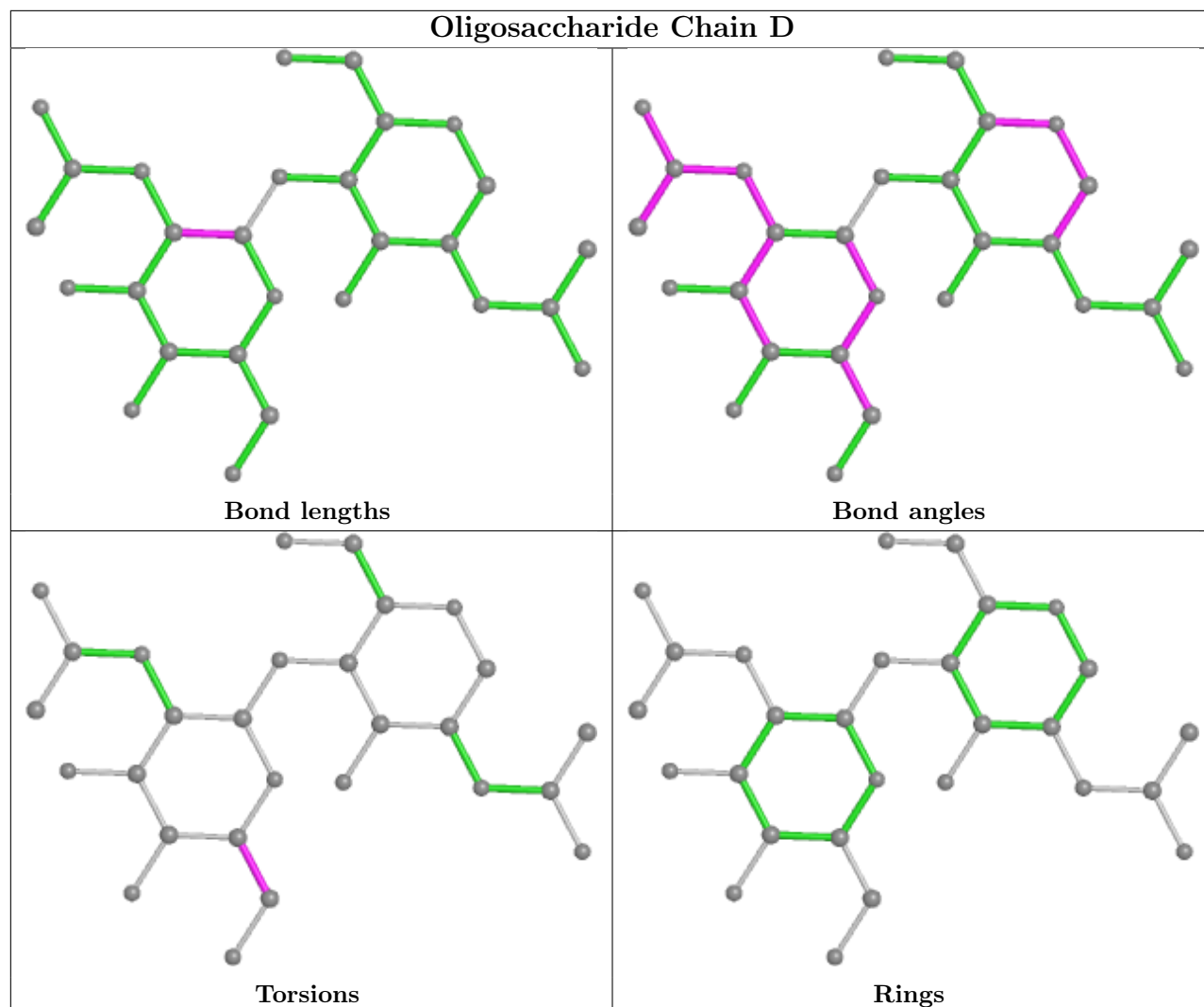
13 monomers are involved in 26 short contacts:

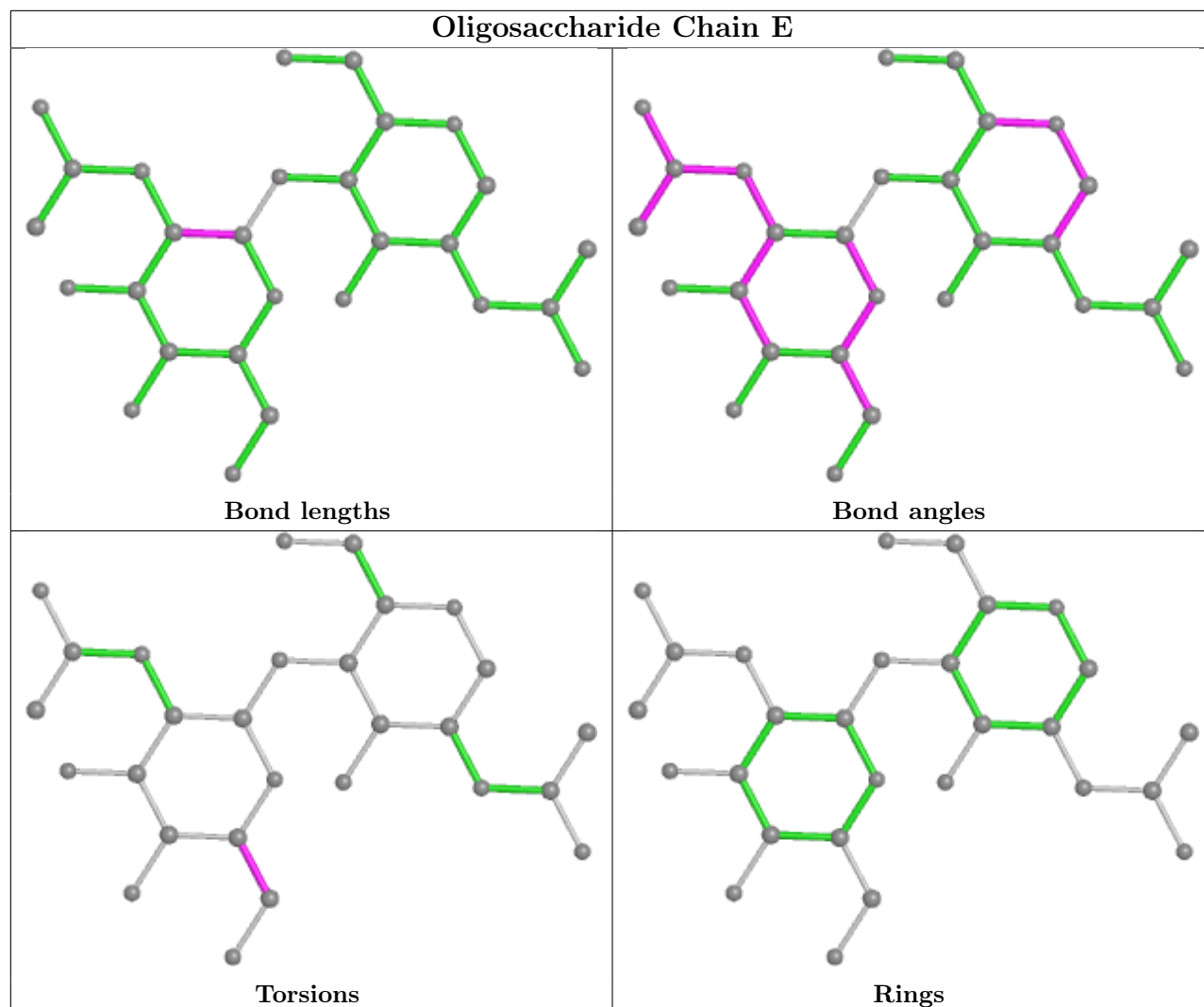
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1	NAG	2	0
2	E	1	NAG	2	0
2	C	1	NAG	2	0
2	D	1	NAG	2	0
2	R	1	NAG	2	0
2	T	1	NAG	2	0
2	U	1	NAG	2	0
2	X	1	NAG	2	0
2	W	1	NAG	2	0
2	S	1	NAG	2	0
2	Z	1	NAG	2	0
2	V	1	NAG	2	0
2	Y	1	NAG	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

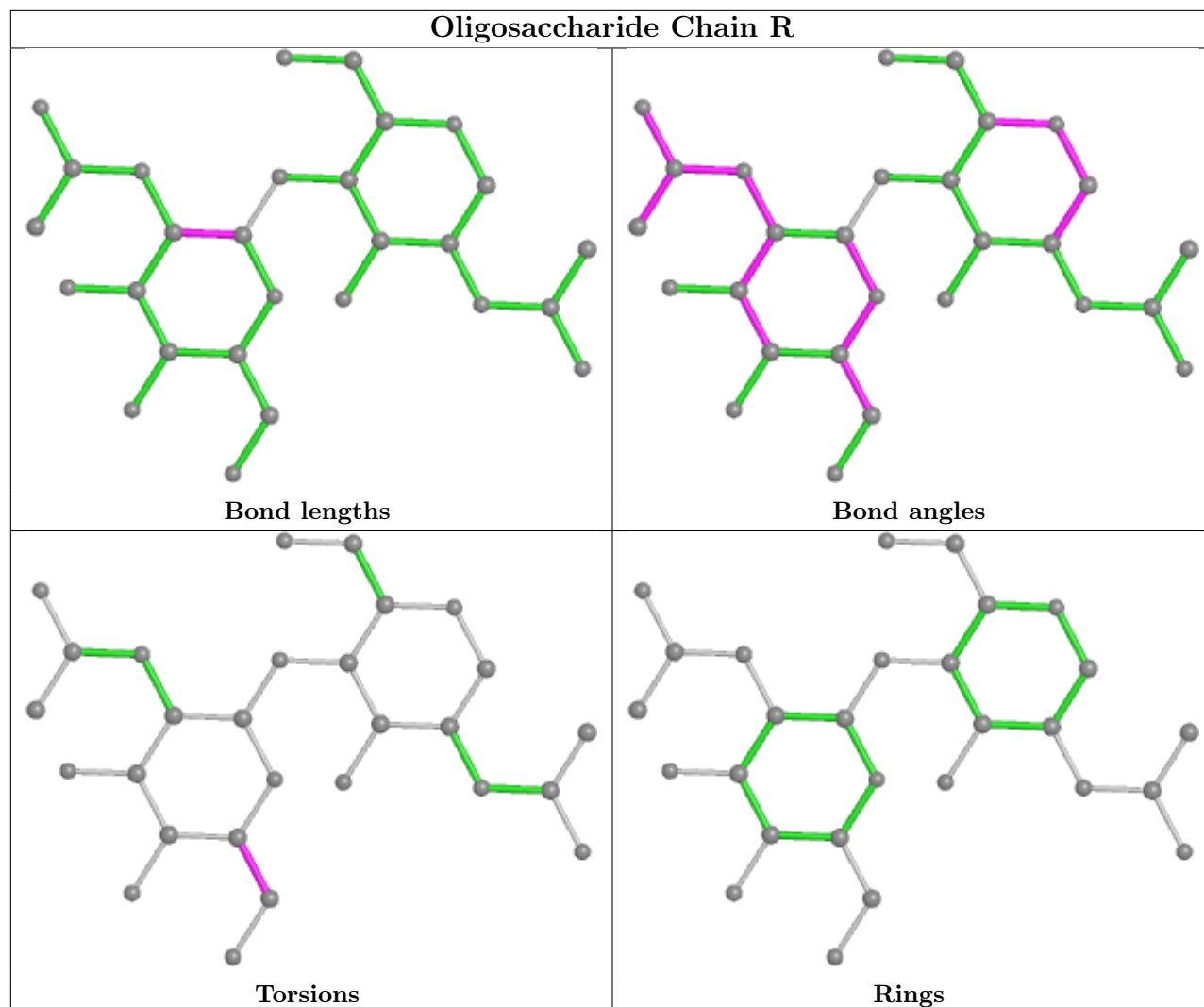


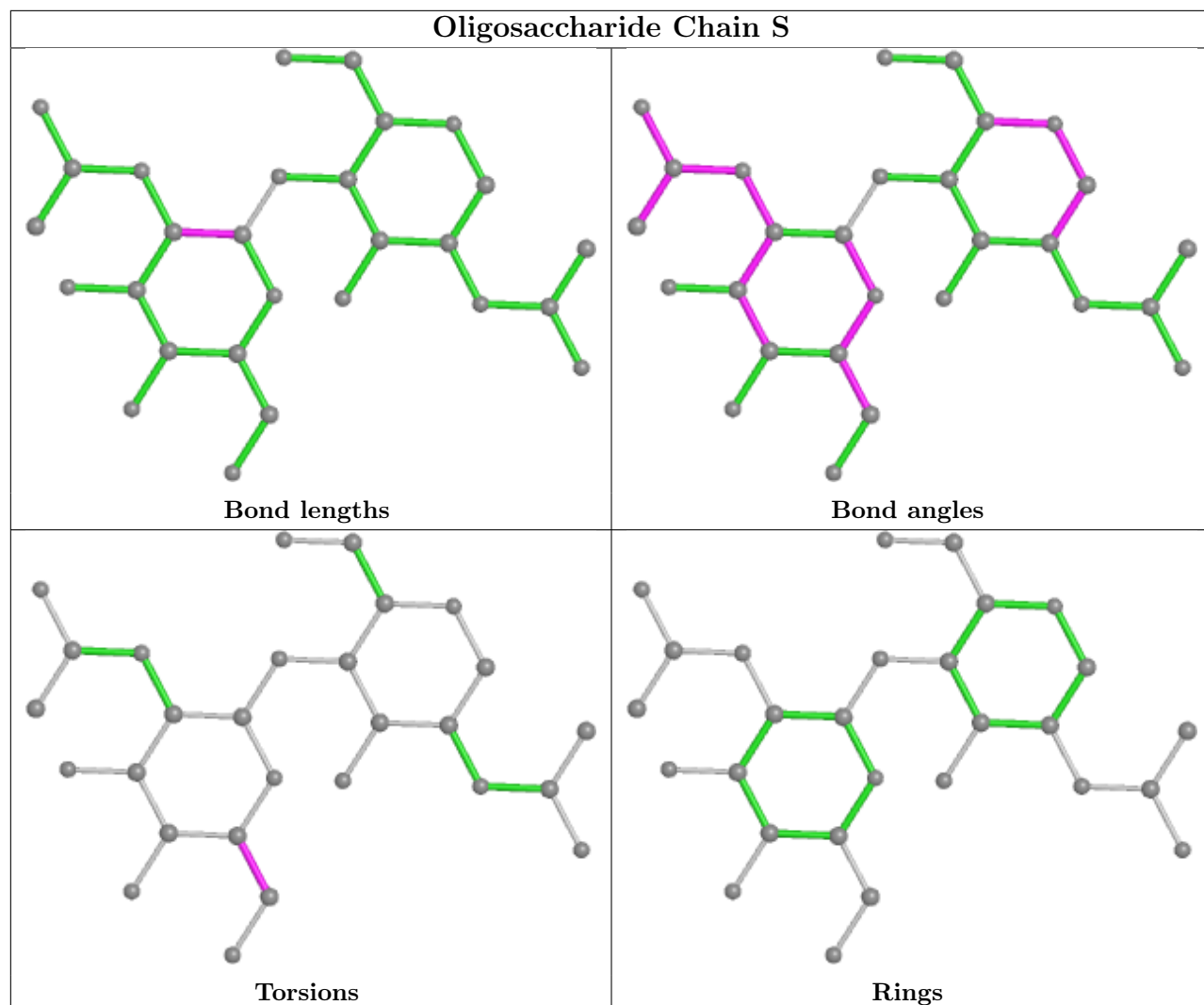


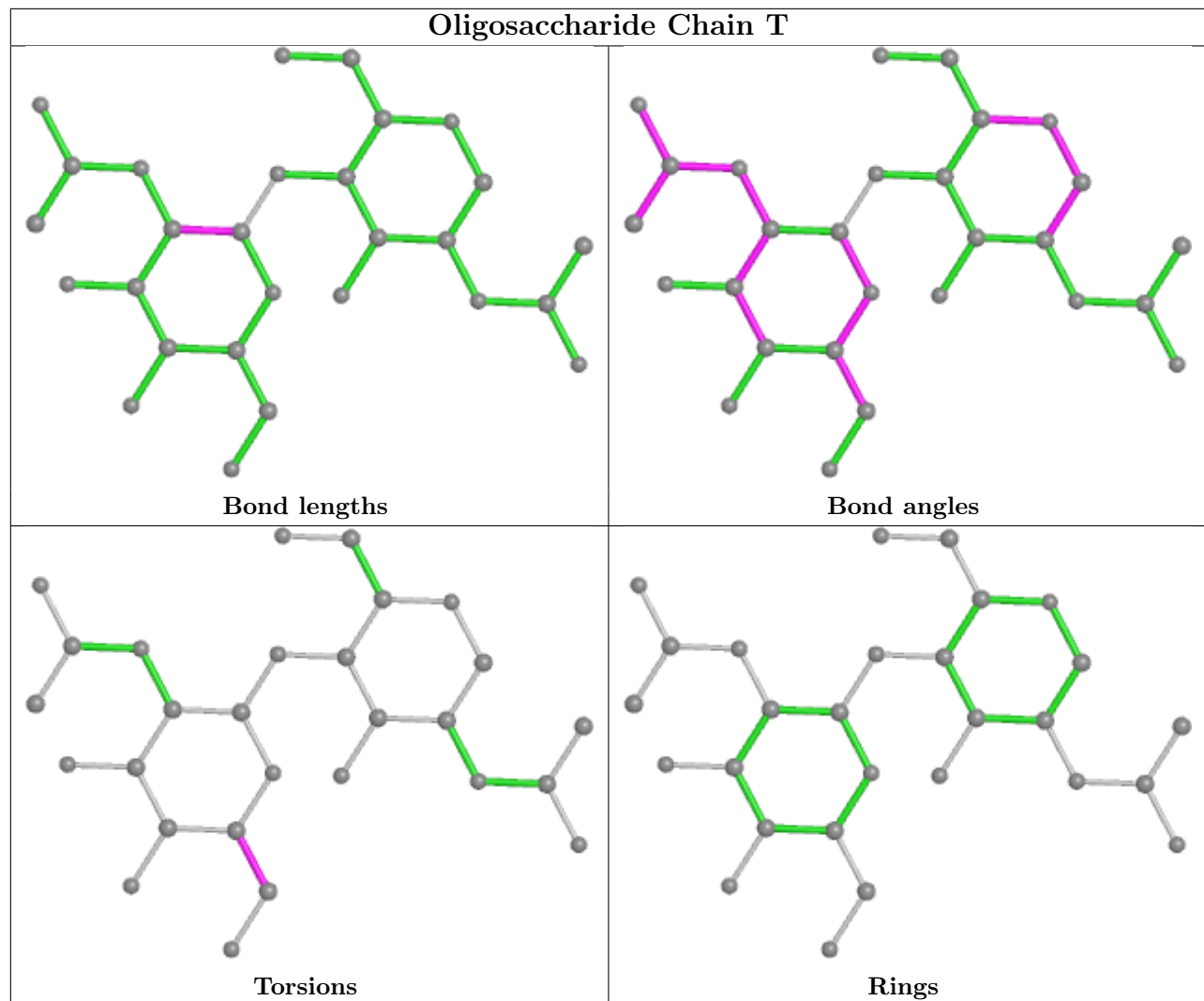


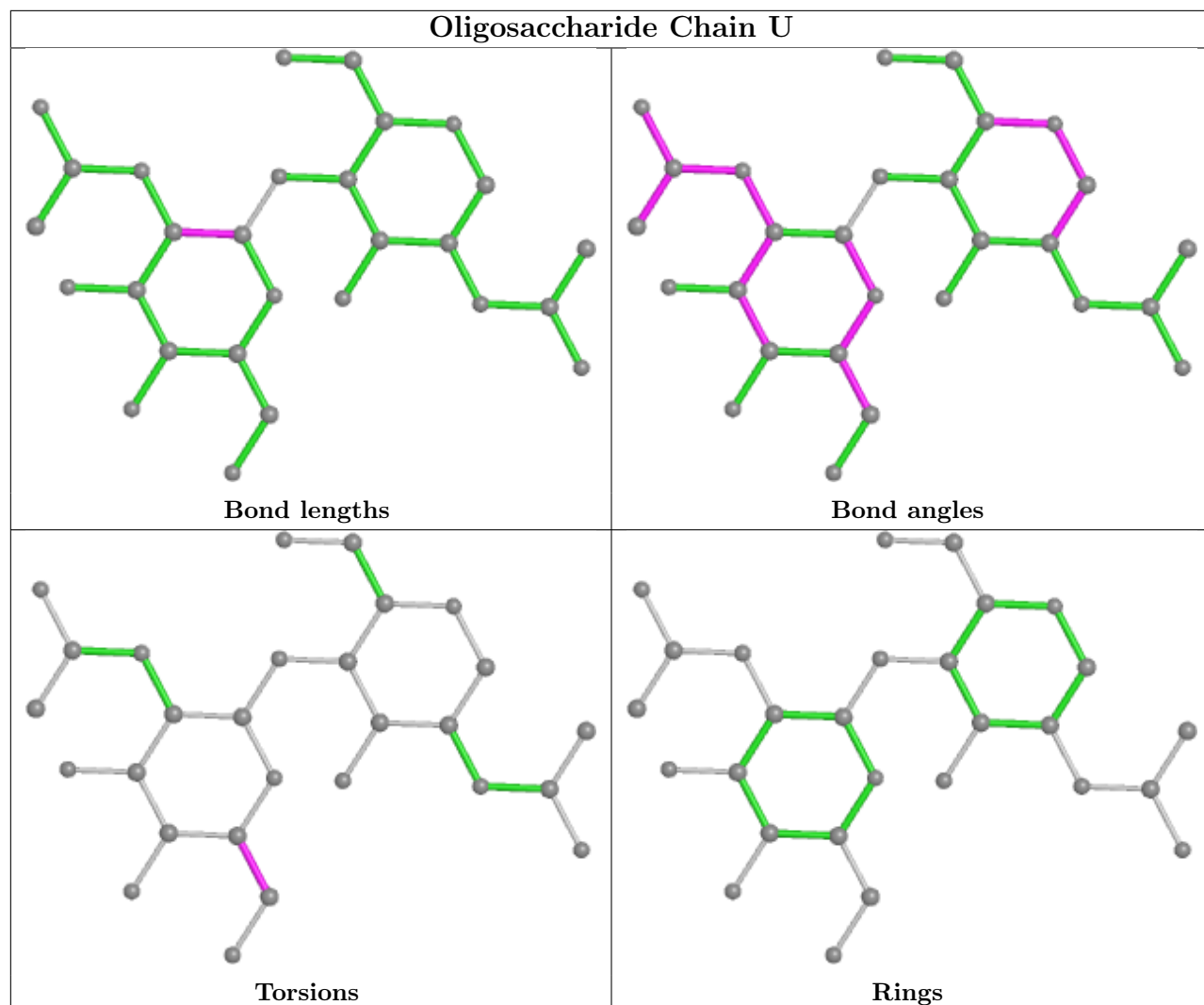


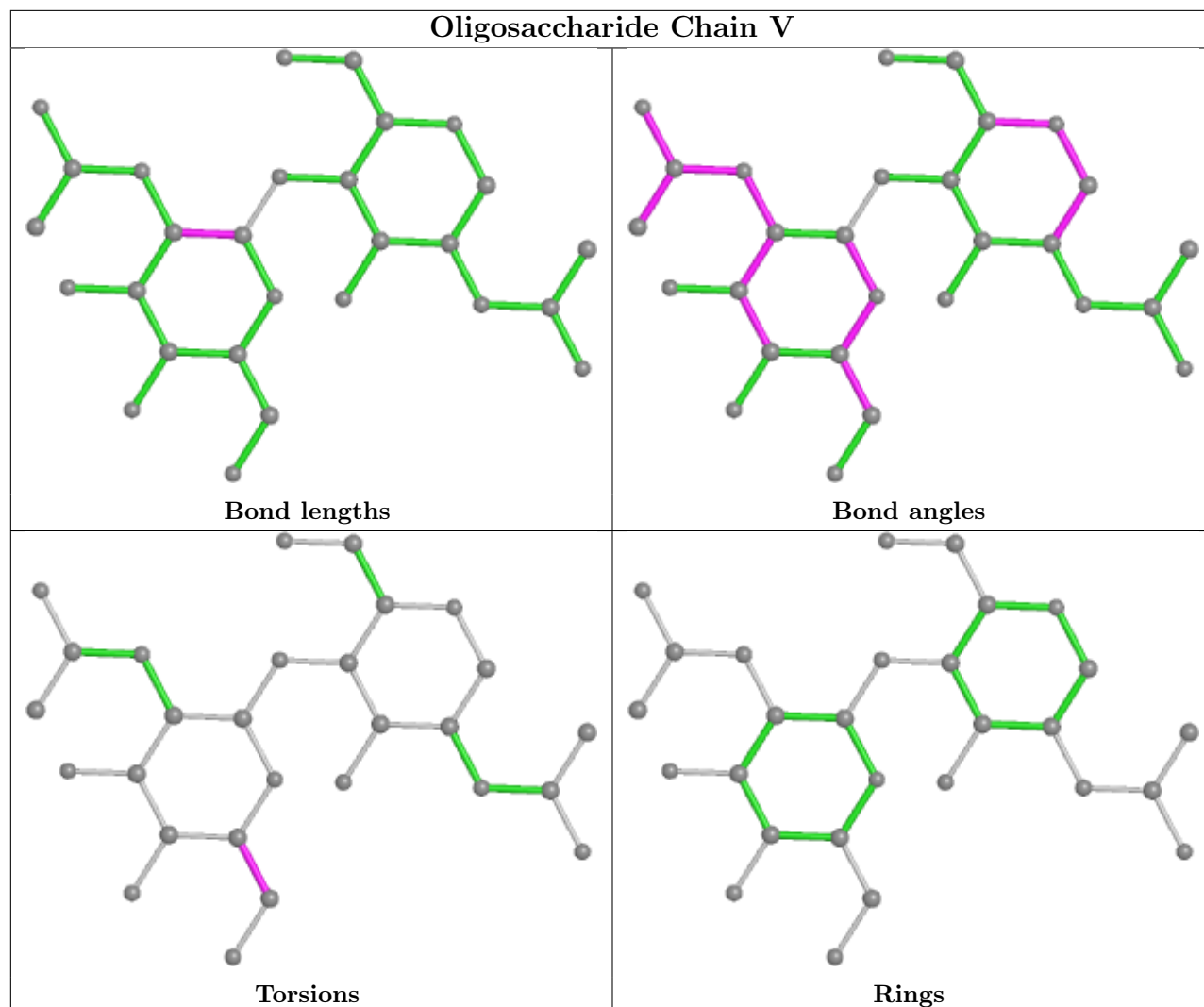


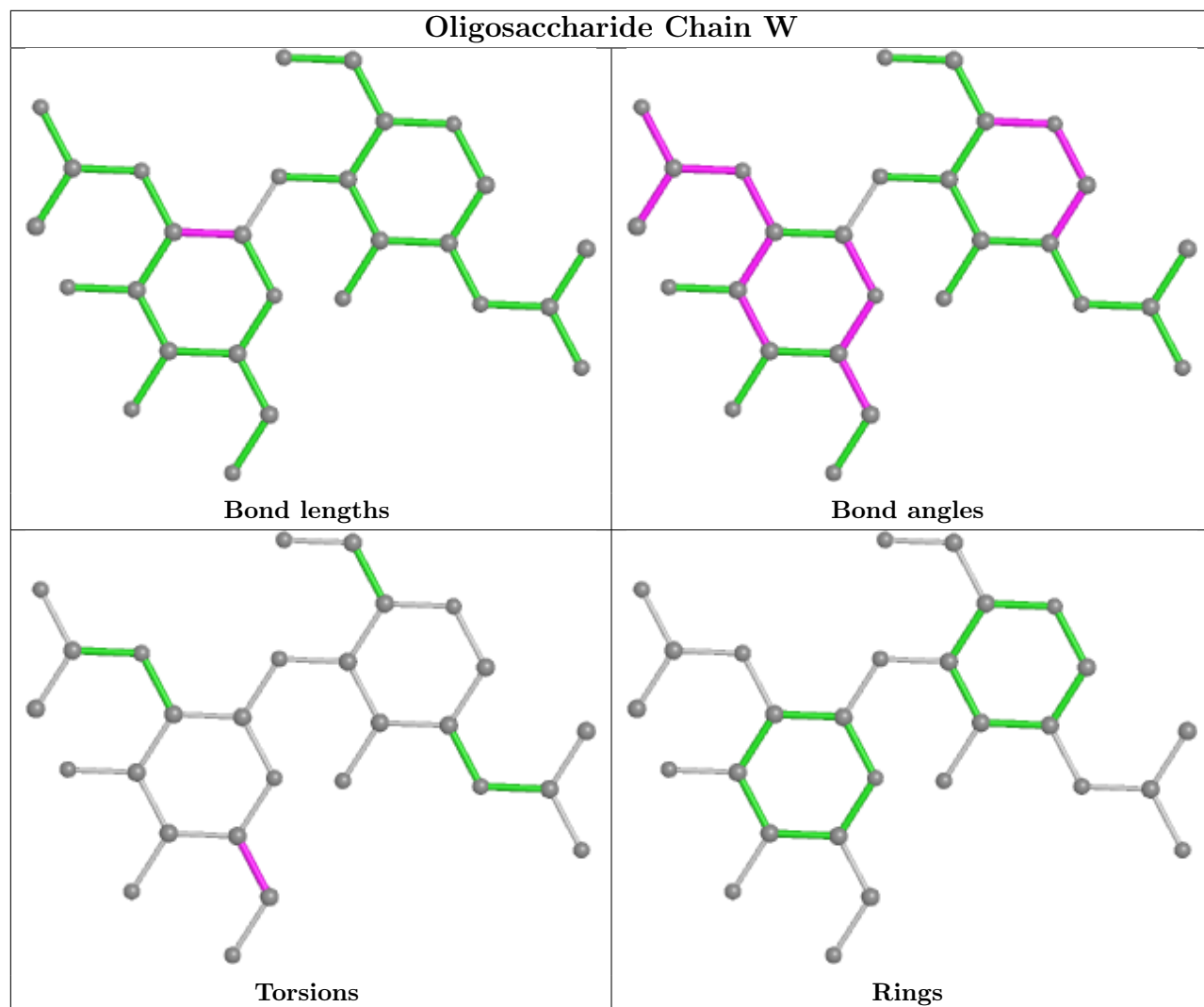


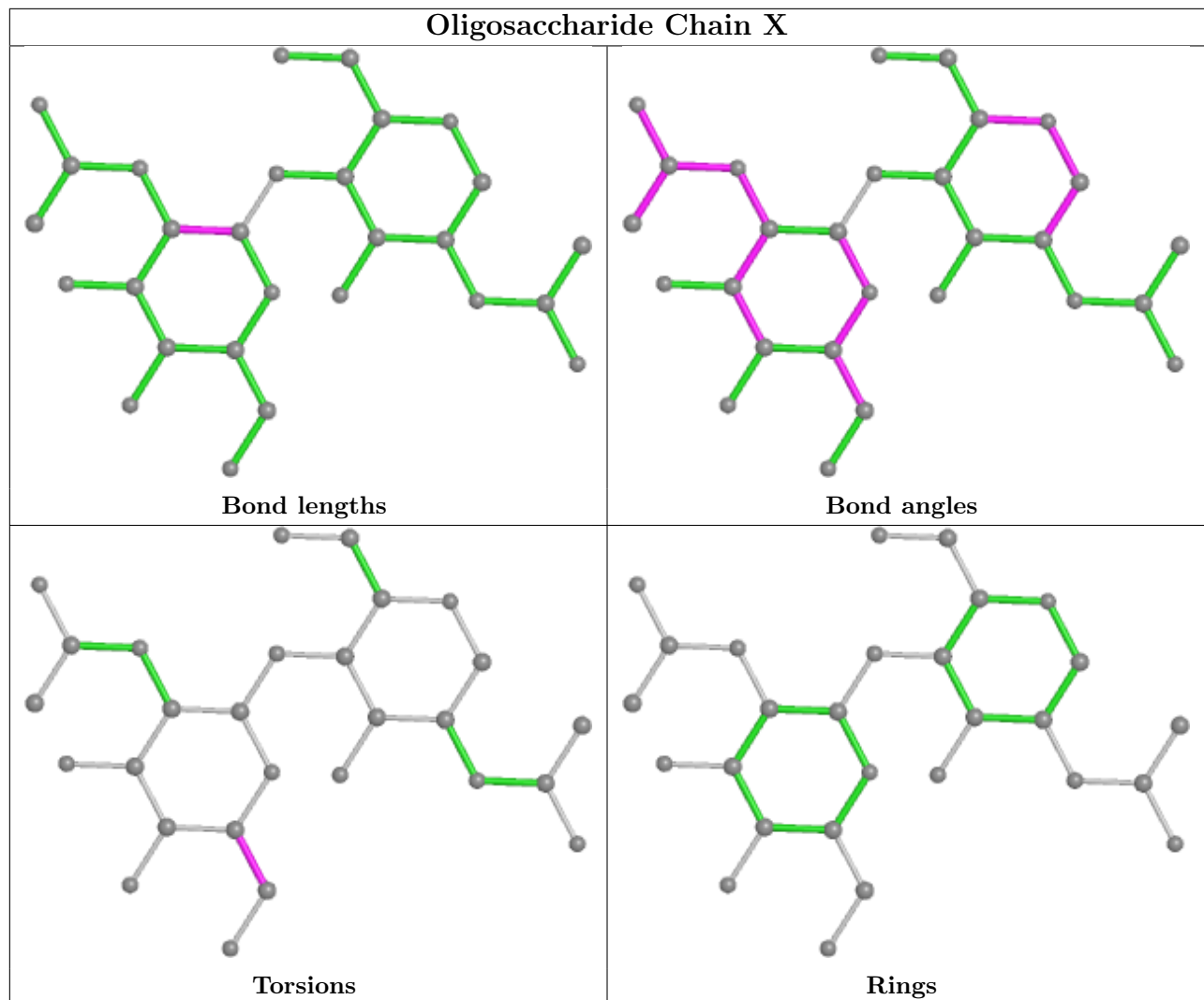


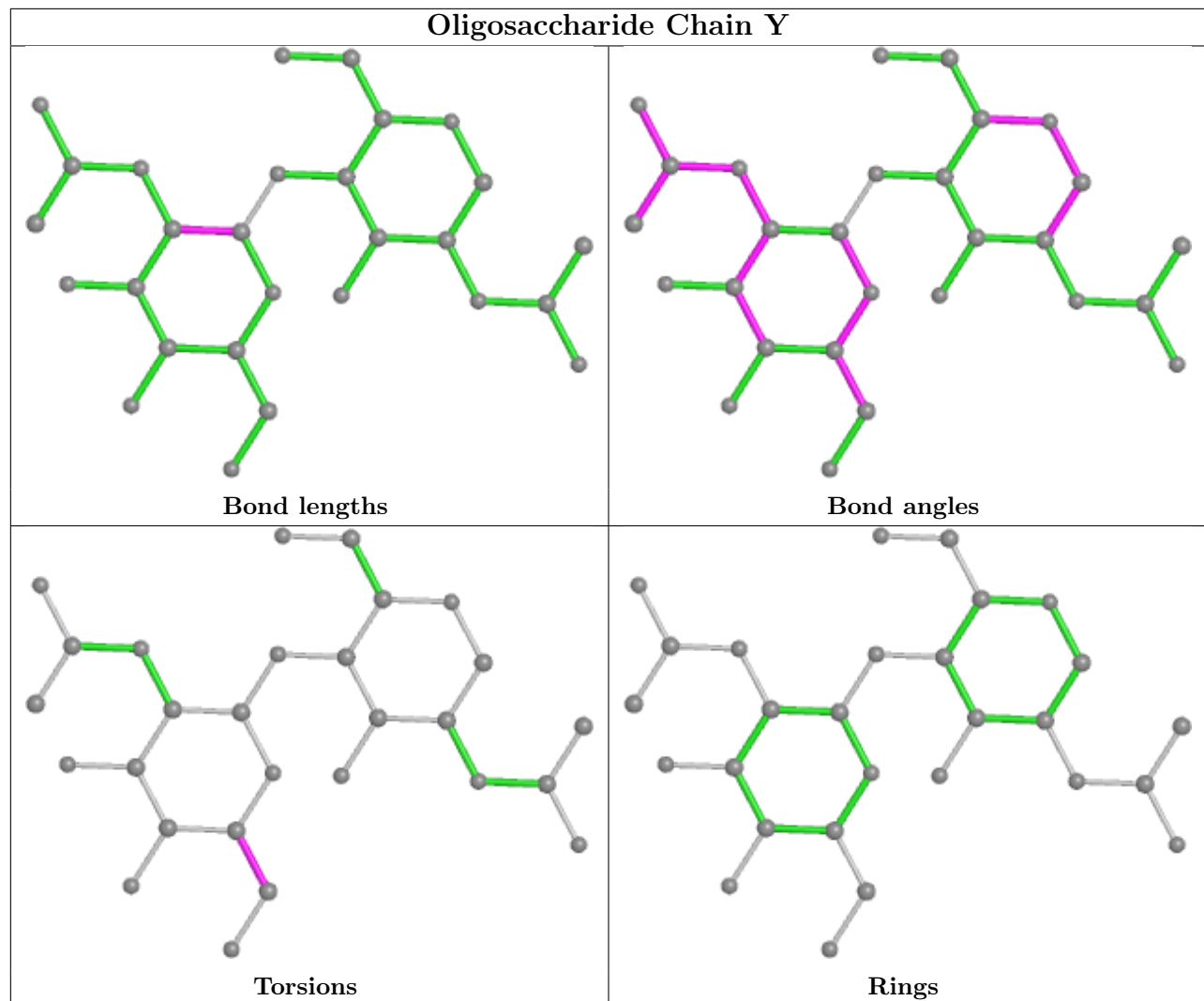




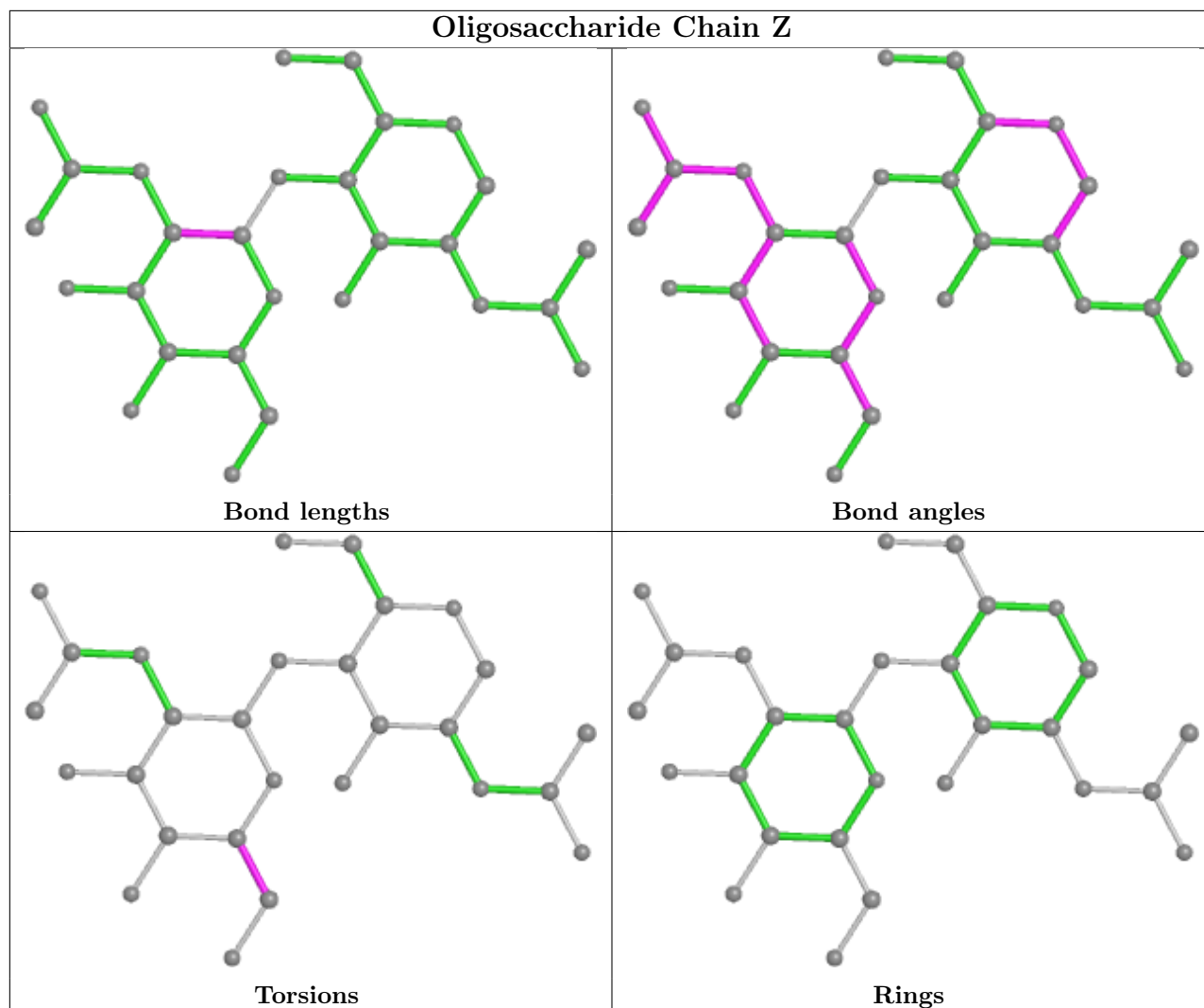












## 5.6 Ligand geometry [i](#)

Of 30 ligands modelled in this entry, 30 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 5.7 Other polymers [i](#)

There are no such residues in this entry.

## 5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	G	3
1	H	1
1	I	1
1	J	1
1	K	1
1	L	1
1	M	1
1	N	1
1	O	1
1	P	1
1	Q	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	G	79:SER	C	80:THR	N	1.69
1	G	78:THR	C	79:SER	N	1.14
1	G	66:ALA	C	67:TYR	N	1.01
1	H	66:ALA	C	67:TYR	N	1.01
1	I	66:ALA	C	67:TYR	N	1.01
1	J	66:ALA	C	67:TYR	N	1.01
1	K	66:ALA	C	67:TYR	N	1.01
1	L	66:ALA	C	67:TYR	N	1.01
1	M	66:ALA	C	67:TYR	N	1.01
1	N	66:ALA	C	67:TYR	N	1.01
1	O	66:ALA	C	67:TYR	N	1.01
1	P	66:ALA	C	67:TYR	N	1.01
1	Q	66:ALA	C	67:TYR	N	1.01

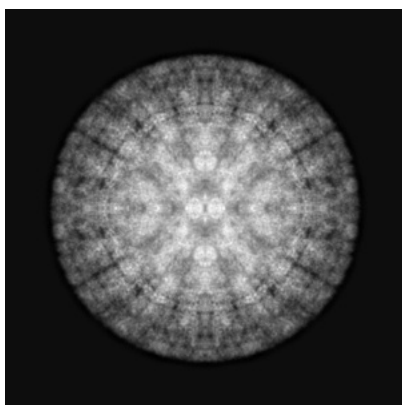
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1571. These allow visual inspection of the internal detail of the map and identification of artifacts.

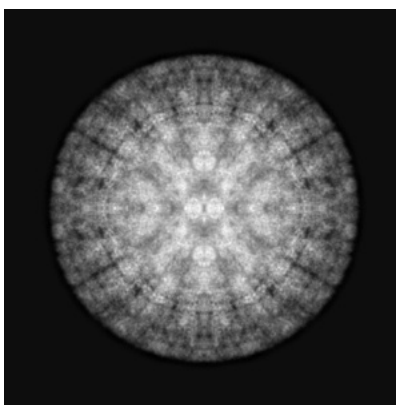
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

### 6.1 Orthogonal projections [i](#)

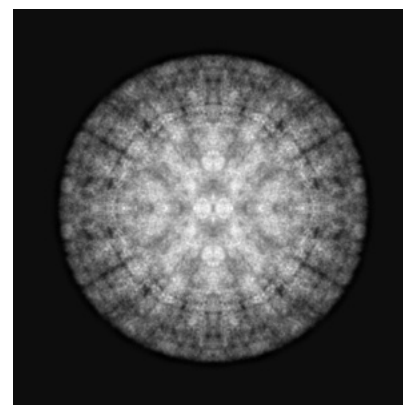
#### 6.1.1 Primary map



X



Y

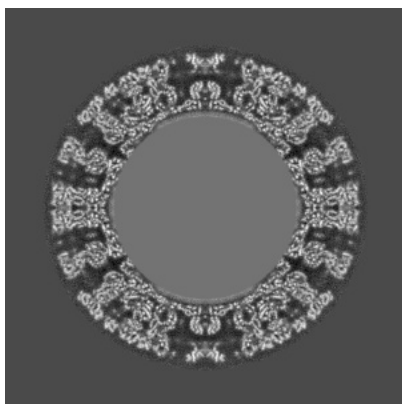


Z

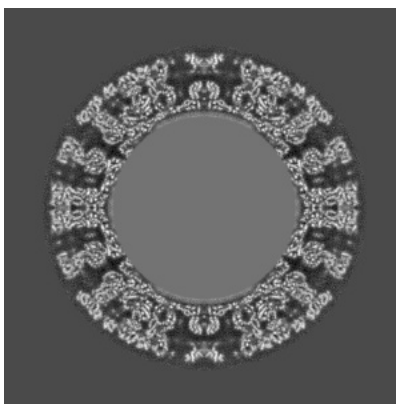
The images above show the map projected in three orthogonal directions.

### 6.2 Central slices [i](#)

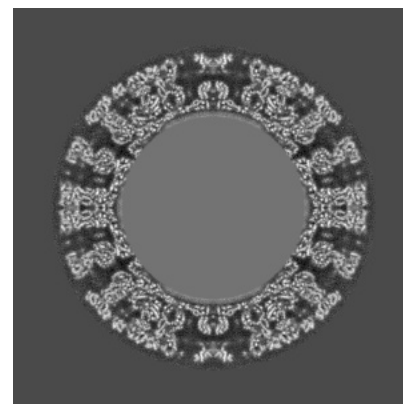
#### 6.2.1 Primary map



X Index: 400



Y Index: 400

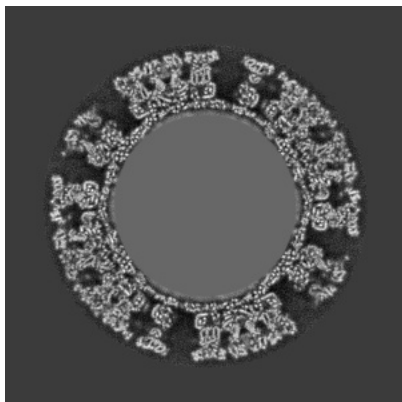


Z Index: 400

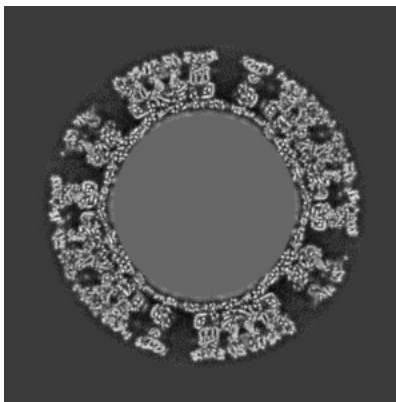
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

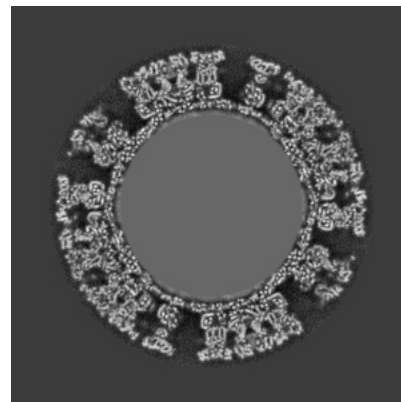
### 6.3.1 Primary map



X Index: 383



Y Index: 383

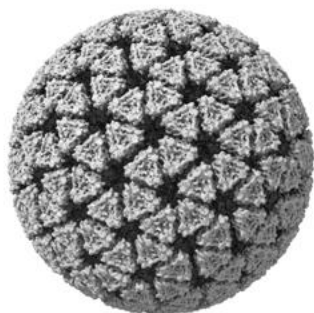


Z Index: 383

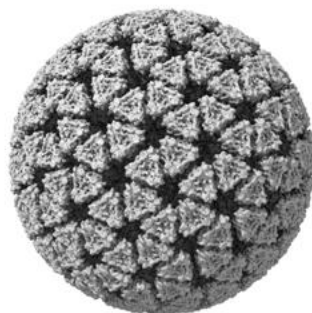
The images above show the largest variance slices of the map in three orthogonal directions.

## 6.4 Orthogonal surface views [i](#)

### 6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

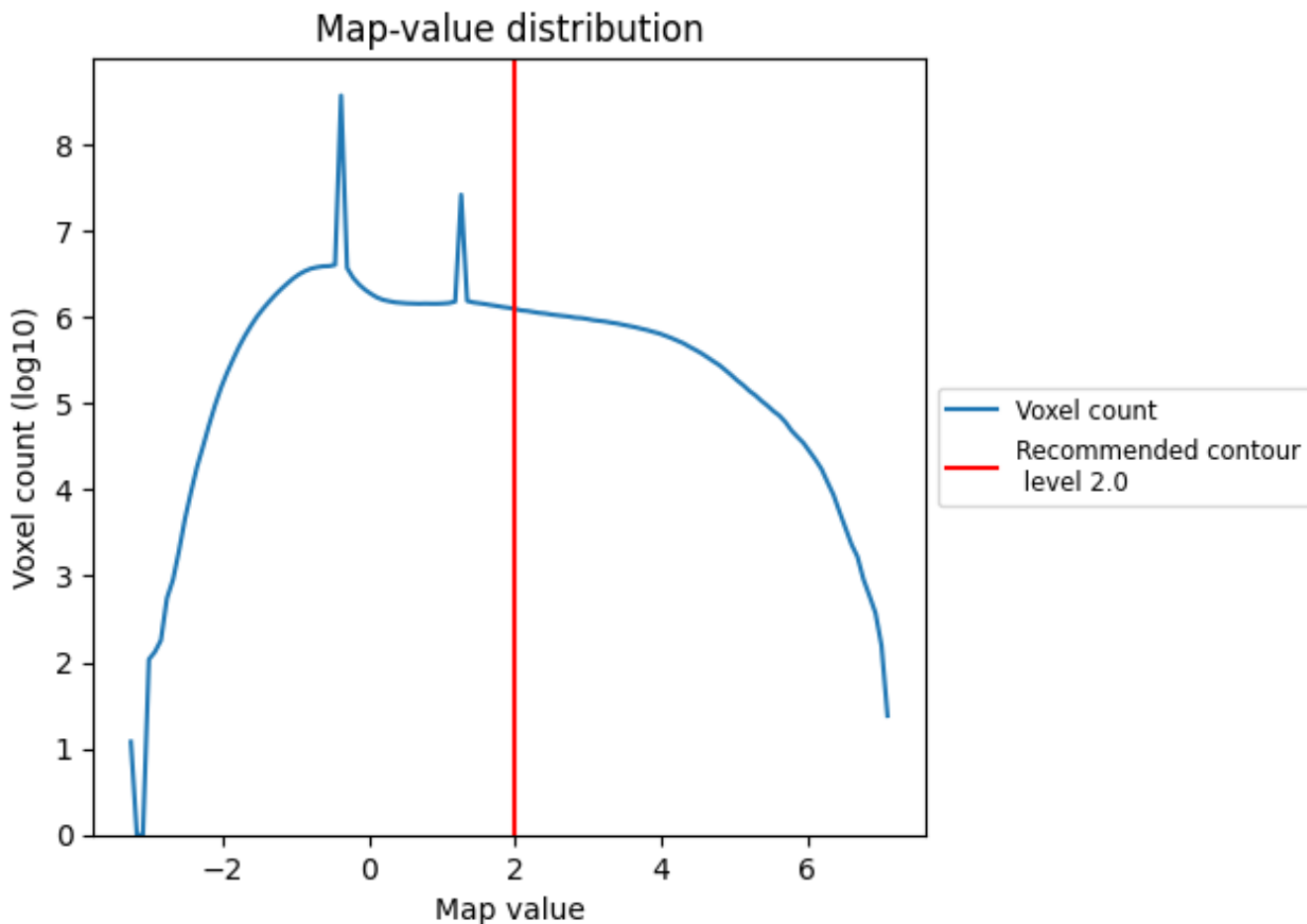
## 6.5 Mask visualisation

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

## 7 Map analysis [i](#)

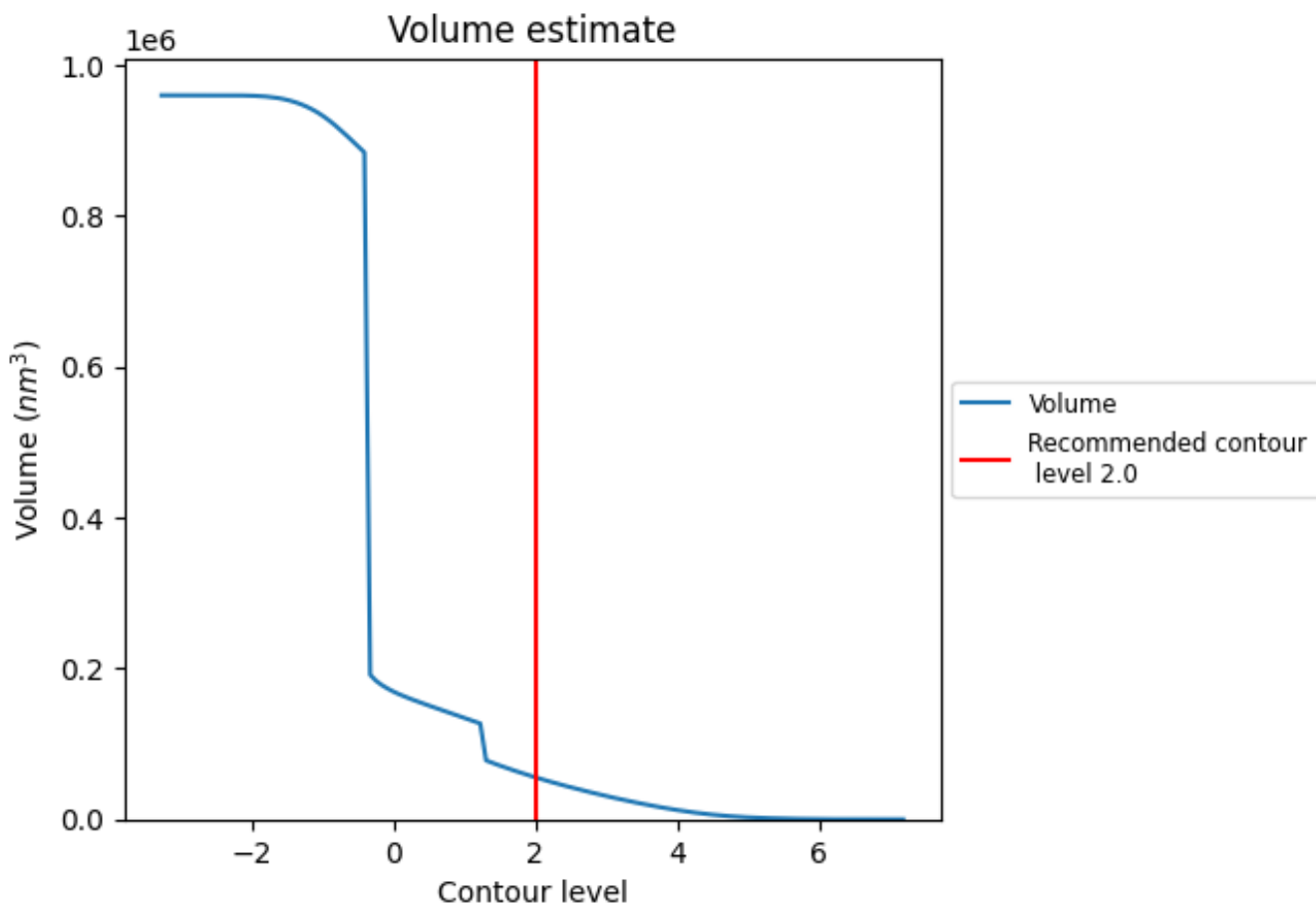
This section contains the results of statistical analysis of the map.

### 7.1 Map-value distribution [i](#)



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

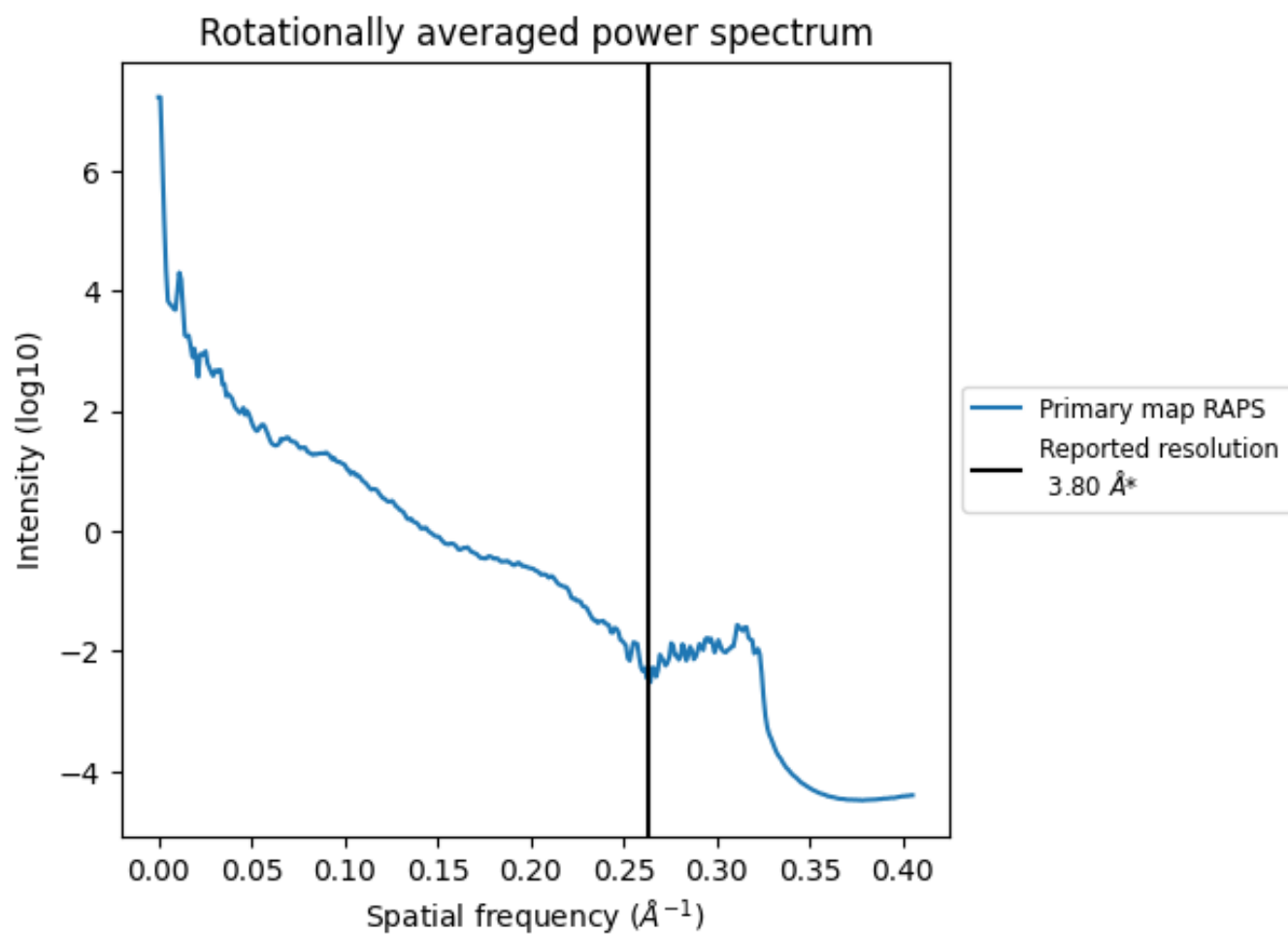
## 7.2 Volume estimate [\(i\)](#)



The volume at the recommended contour level is 55668 nm<sup>3</sup>; this corresponds to an approximate mass of 50287 kDa.

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

### 7.3 Rotationally averaged power spectrum [i](#)



\*Reported resolution corresponds to spatial frequency of  $0.263 \text{\AA}^{-1}$



## 8 Fourier-Shell correlation

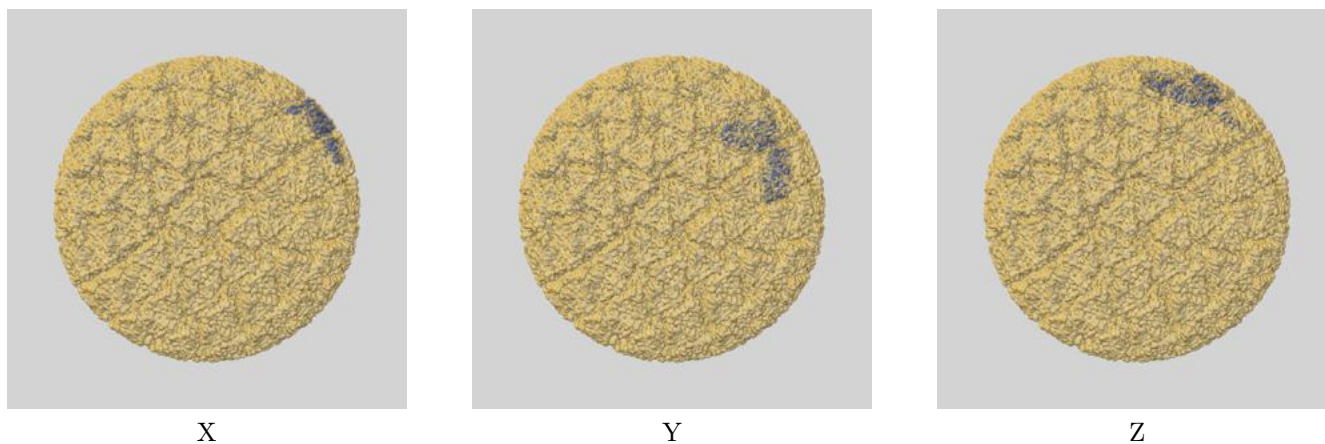
This section was not generated. No FSC curve or half-maps provided.

## 9 Map-model fit [i](#)

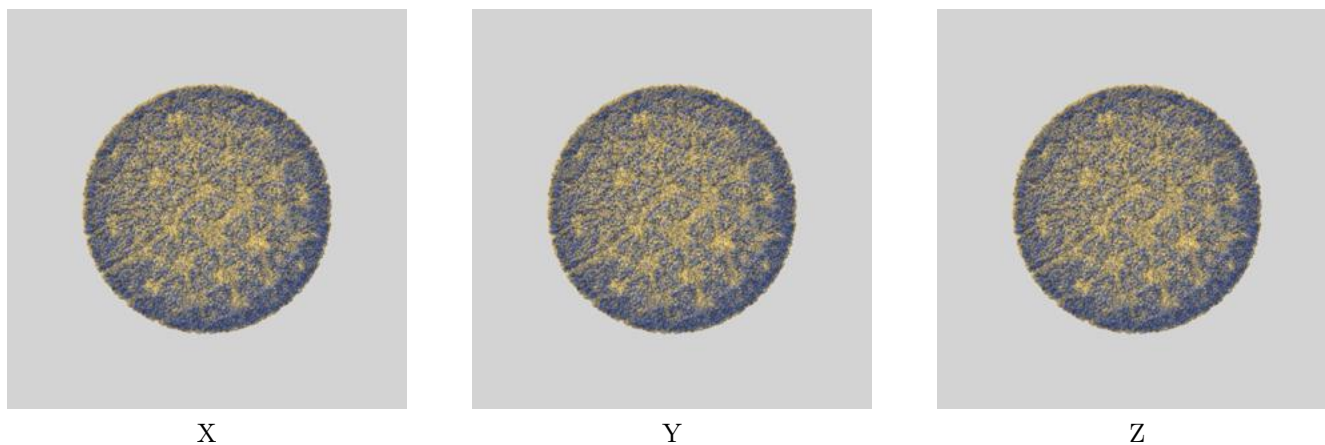
This section contains information regarding the fit between EMDB map EMD-1571 and PDB model 3GZT. Per-residue inclusion information can be found in section 3 on page 7.

### 9.1 Map-model overlays

#### 9.1.1 Map-model overlay [i](#)

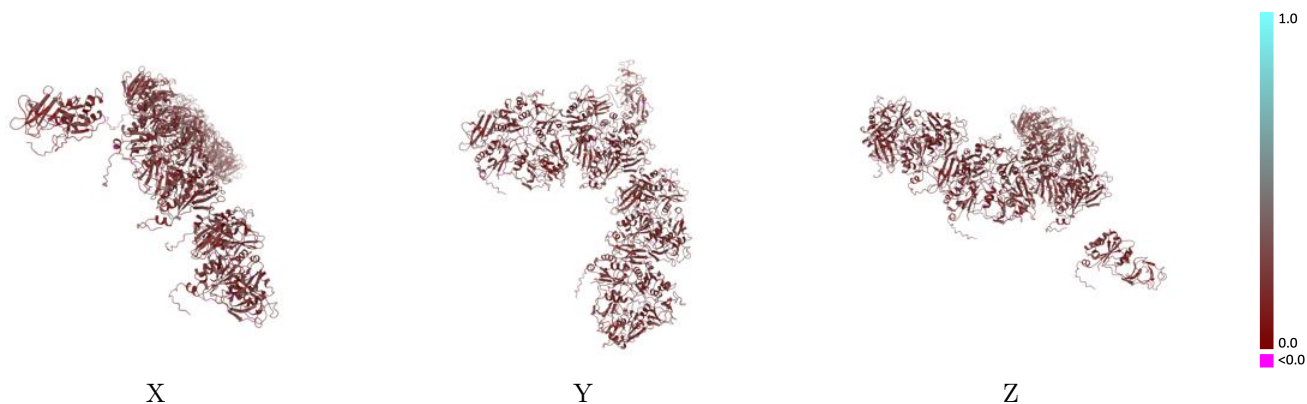


#### 9.1.2 Map-model assembly overlay [i](#)



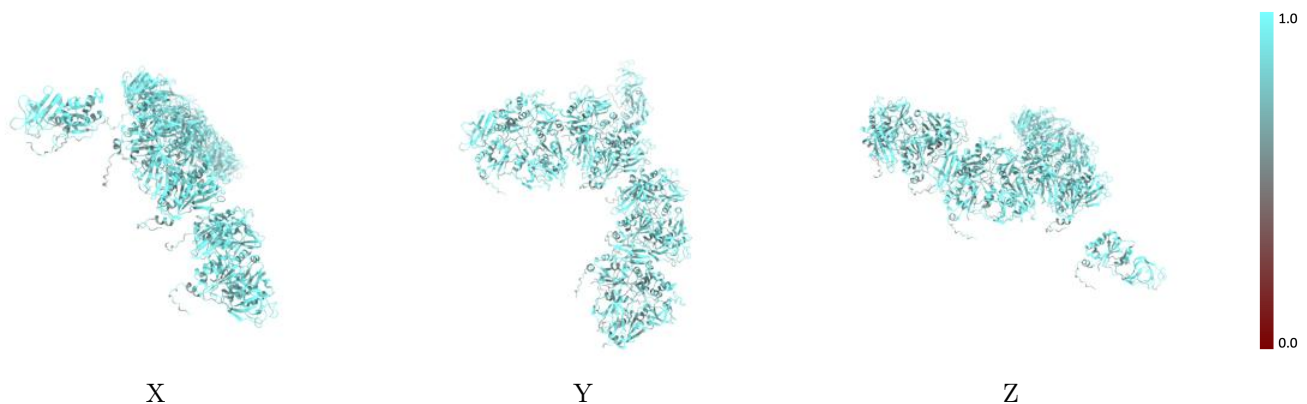
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

## 9.2 Q-score mapped to coordinate model [i](#)



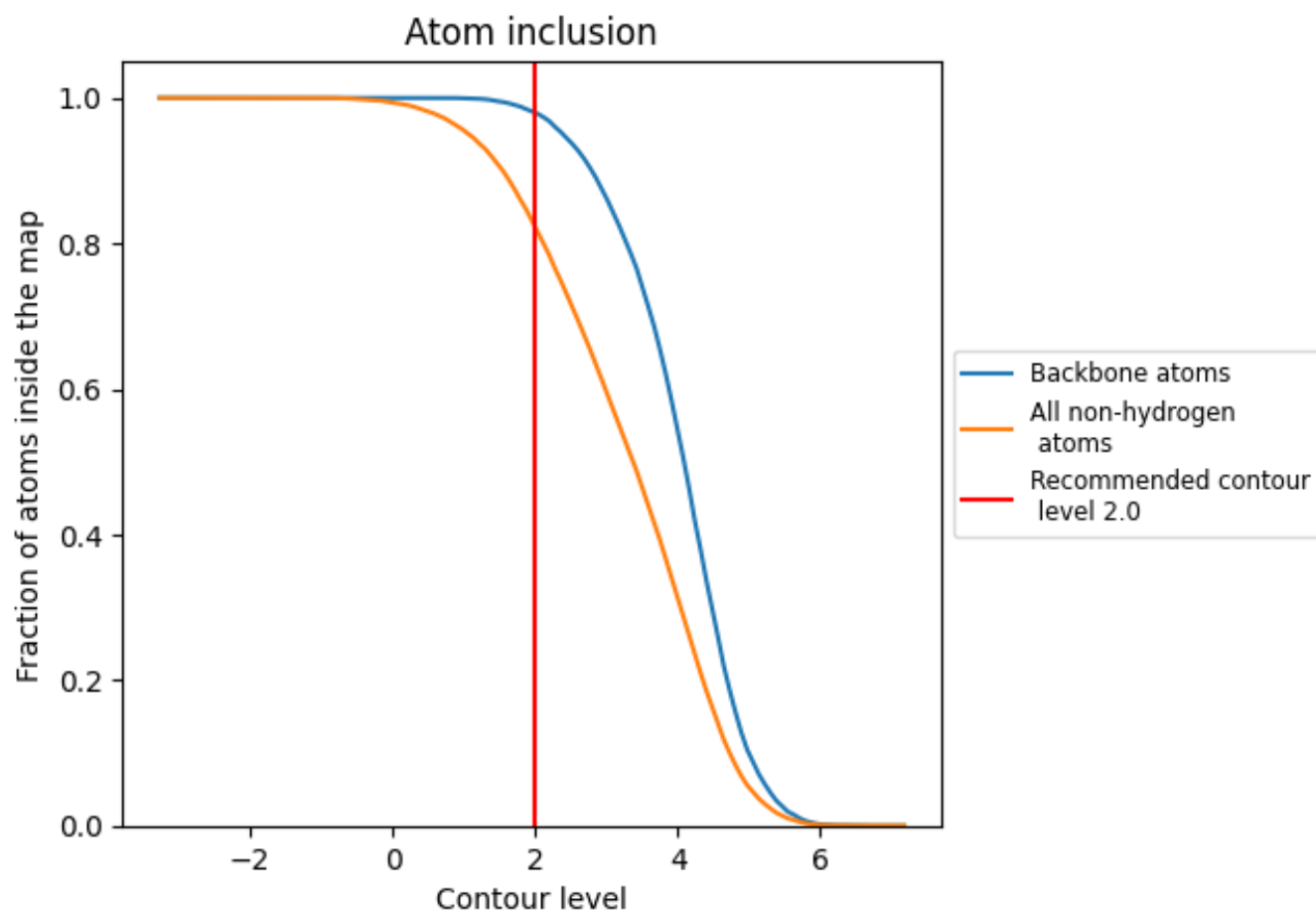
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

## 9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.0).























































## 9.4 Atom inclusion [i](#)



At the recommended contour level, 98% of all backbone atoms, 82% of all non-hydrogen atoms, are inside the map.

## 9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (2.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8234	 0.2300
A	 0.1071	 0.3140
B	 0.8259	 0.2120
C	 0.2143	 0.2390
D	 0.2500	 0.2610
E	 0.2500	 0.2520
F	 0.8549	 0.2290
G	 0.8423	 0.2360
H	 0.8443	 0.2320
I	 0.7980	 0.2260
J	 0.8040	 0.2280
K	 0.8050	 0.2340
L	 0.8343	 0.2220
M	 0.8564	 0.2280
N	 0.8388	 0.2350
O	 0.8423	 0.2330
P	 0.8393	 0.2340
Q	 0.8338	 0.2340
R	 0.0357	 0.1640
S	 0.1429	 0.2570
T	 0.1786	 0.1960
U	 0.2143	 0.2180
V	 0.2857	 0.2410
W	 0.2500	 0.3320
X	 0.1724	 0.1760
Y	 0.2500	 0.2380
Z	 0.1786	 0.3550

