



Full wwPDB EM Validation Report ⓘ

Mar 8, 2026 – 11:27 AM UTC

PDB ID : 3ZBI / pdb_00003zbi
EMDB ID : EMD-2233
Title : Fitting result in the O-layer of the subnanometer structure of the bacterial pKM101 type IV secretion system core complex digested with elastase
Authors : Rivera-Calzada, A.; Fronzes, R.; Savva, C.G.; Chandran, V.; Lian, P.W.; Laeremans, T.; Pardon, E.; Steyaert, J.; Remaut, H.; Waksman, G.; Orlova, E.V.
Deposited on : 2012-11-10
Resolution : 8.50 Å(reported)
Based on initial model : 3JQO

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

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

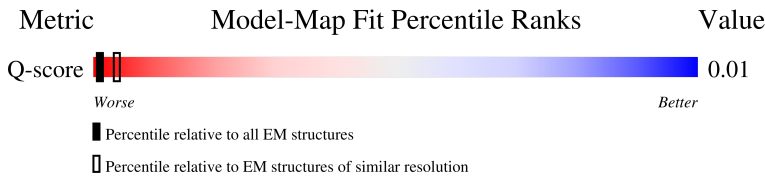
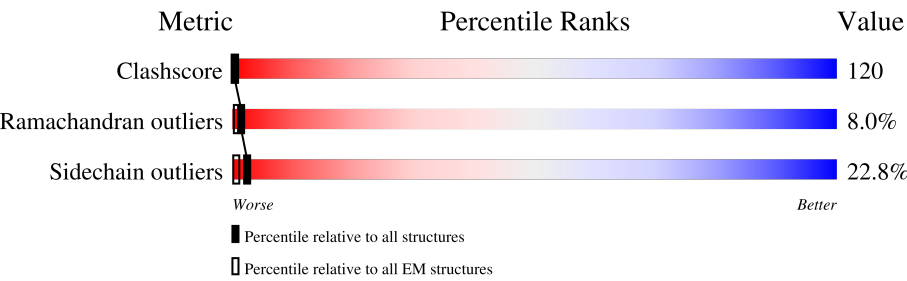
EMDB validation analysis : 0.0.1.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

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

The reported resolution of this entry is 8.50 Å.

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



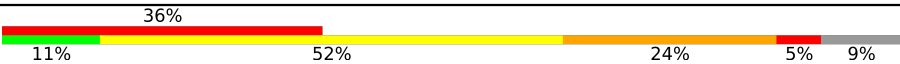
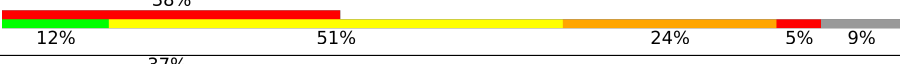
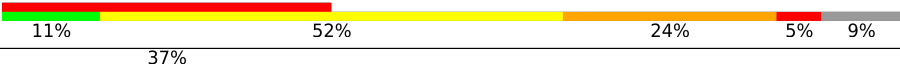
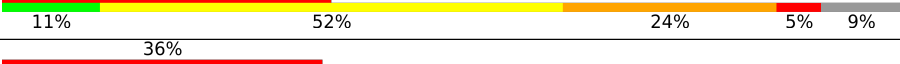
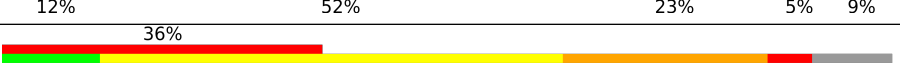
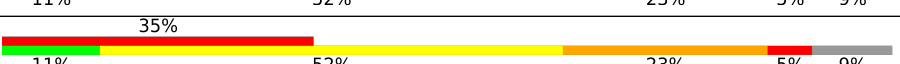
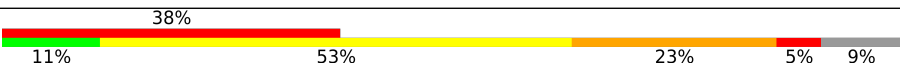
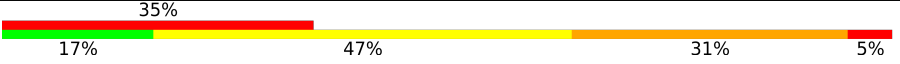
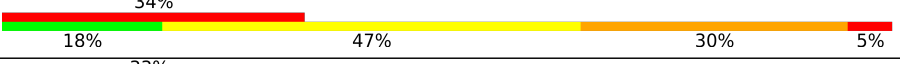
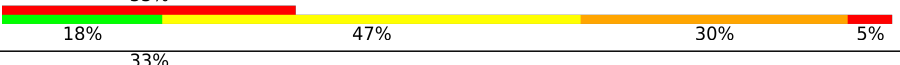
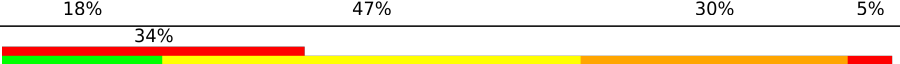
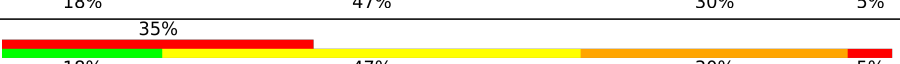
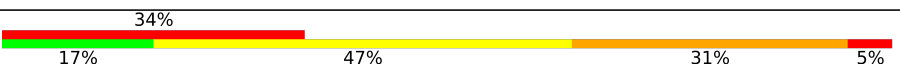
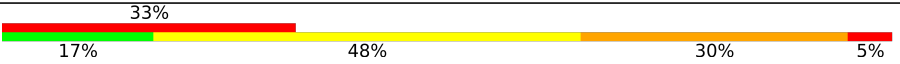
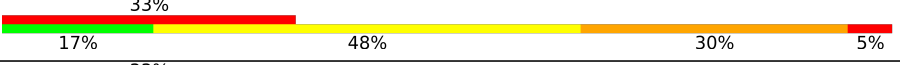
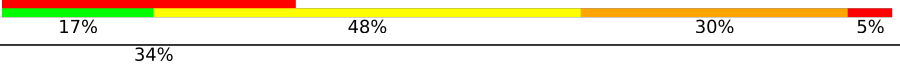
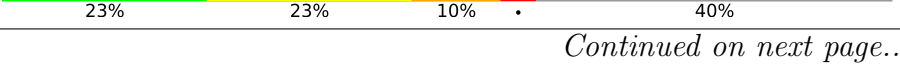
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	328 (8.00 - 9.00)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. 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	A	216	37% 11%52%23%5%9%
1	D	216	37% 12%52%23%5%9%
1	G	216	36% 11%52%24%5%9%
1	J	216	36% 12%52%23%5%9%

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Mol	Chain	Length	Quality of chain
1	M	216	
1	P	216	
1	S	216	
1	V	216	
1	Y	216	
1	b	216	
1	e	216	
1	h	216	
1	k	216	
1	n	216	
2	B	130	
2	E	130	
2	H	130	
2	K	130	
2	N	130	
2	Q	130	
2	T	130	
2	W	130	
2	Z	130	
2	c	130	
2	f	130	
2	i	130	
2	l	130	
2	o	130	
3	C	48	

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Mol	Chain	Length	Quality of chain
3	F	48	21% 21% 25% 10% • 40%
3	I	48	21% 19% 27% 10% • 40%
3	L	48	21% 21% 25% 10% • 40%
3	O	48	21% 21% 25% 10% • 40%
3	R	48	21% 21% 25% 10% • 40%
3	U	48	21% 19% 27% 10% • 40%
3	X	48	23% 21% 25% 10% • 40%
3	a	48	21% 21% 25% 10% • 40%
3	d	48	21% 21% 25% 10% • 40%
3	g	48	21% 21% 25% 10% • 40%
3	j	48	21% 21% 25% 10% • 40%
3	m	48	21% 21% 25% 10% • 40%
3	p	48	21% 21% 25% 10% • 40%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 37884 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 TRAF PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	D	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	G	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	J	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	M	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	P	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	S	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	V	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	Y	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	b	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	e	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	h	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	k	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		
1	n	197	Total	C	N	O	S	0	1
			1459	903	256	293	7		

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	846	ARG	ALA	conflict	UNP Q46705
D	846	ARG	ALA	conflict	UNP Q46705

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Chain	Residue	Modelled	Actual	Comment	Reference
G	846	ARG	ALA	conflict	UNP Q46705
J	846	ARG	ALA	conflict	UNP Q46705
M	846	ARG	ALA	conflict	UNP Q46705
P	846	ARG	ALA	conflict	UNP Q46705
S	846	ARG	ALA	conflict	UNP Q46705
V	846	ARG	ALA	conflict	UNP Q46705
Y	846	ARG	ALA	conflict	UNP Q46705
b	846	ARG	ALA	conflict	UNP Q46705
e	846	ARG	ALA	conflict	UNP Q46705
h	846	ARG	ALA	conflict	UNP Q46705
k	846	ARG	ALA	conflict	UNP Q46705
n	846	ARG	ALA	conflict	UNP Q46705

- Molecule 2 is a protein called TRAO PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	E	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	H	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	K	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	N	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	Q	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	T	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	W	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	Z	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	c	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	f	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	i	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		
2	l	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		

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Mol	Chain	Residues	Atoms					AltConf	Trace
2	o	130	Total	C	N	O	S	0	0
			1034	648	193	190	3		

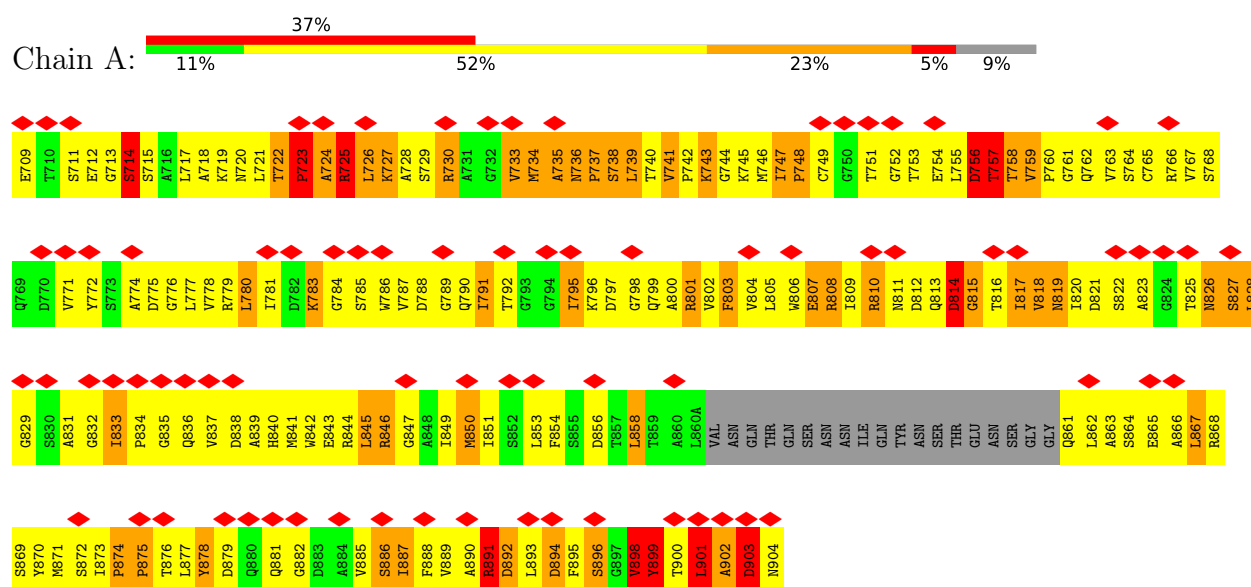
- Molecule 3 is a protein called TRAN PROTEIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	F	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	I	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	L	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	O	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	R	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	U	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	X	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	a	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	d	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	g	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	j	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	m	29	Total	C	N	O	S	0	1
			213	132	37	43	1		
3	p	29	Total	C	N	O	S	0	1
			213	132	37	43	1		

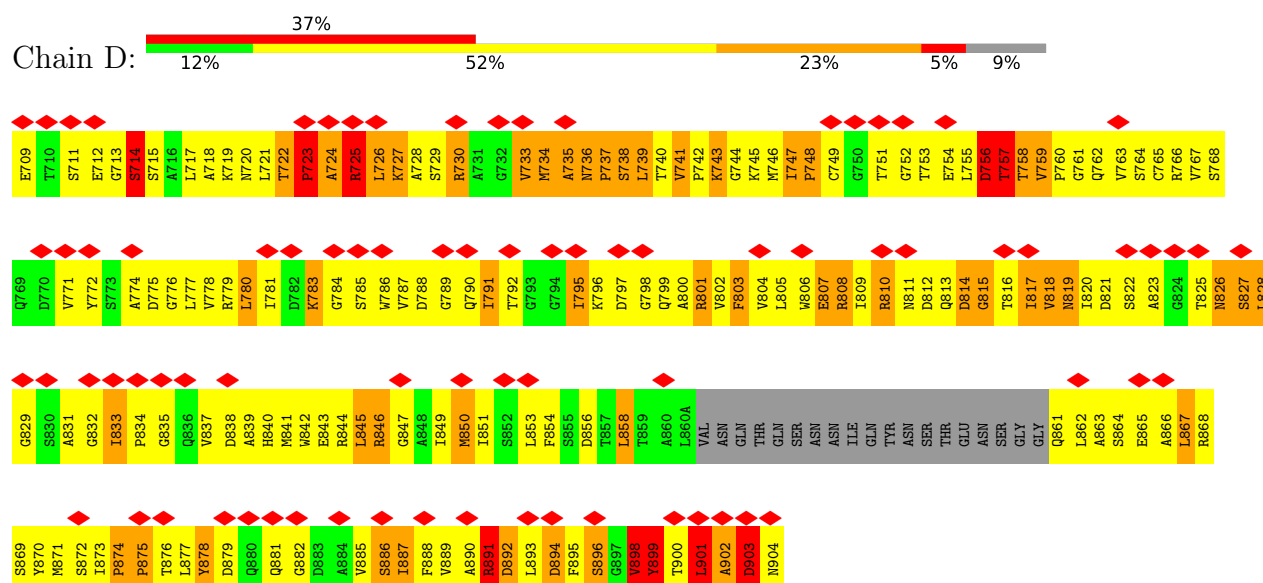
3 Residue-property plots

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.

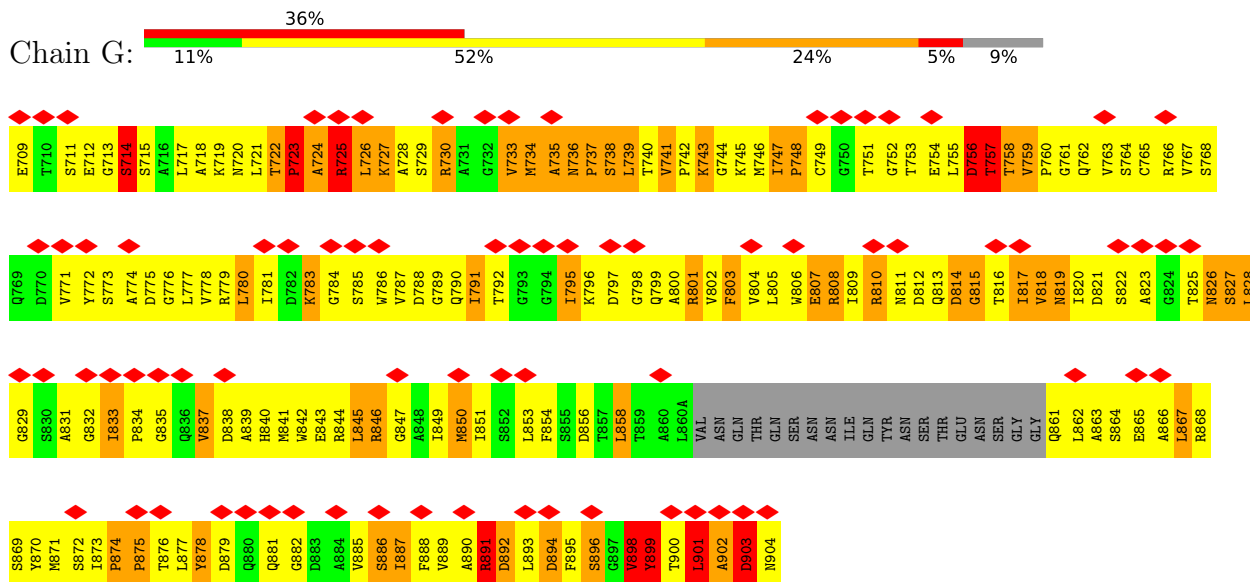
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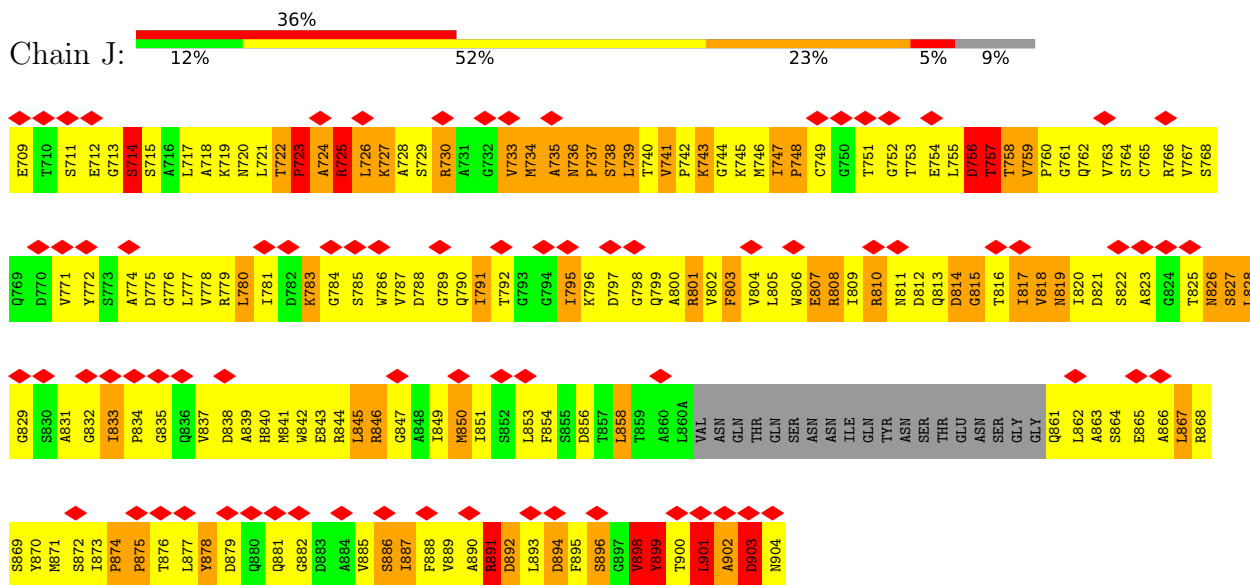
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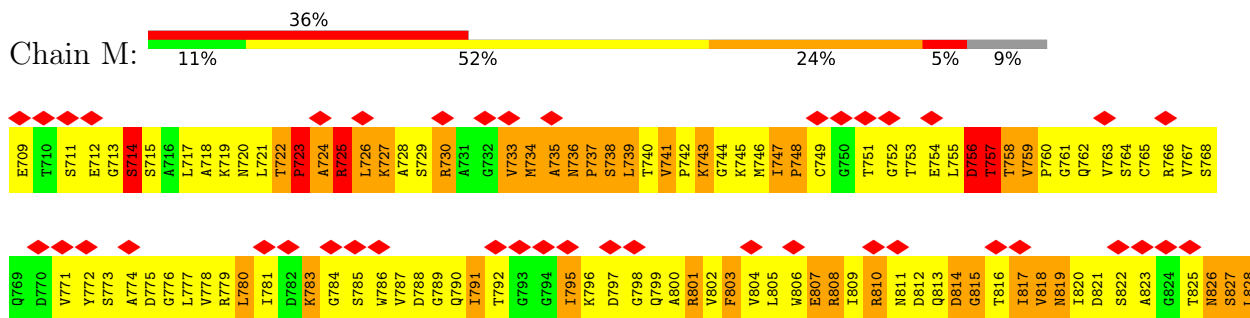
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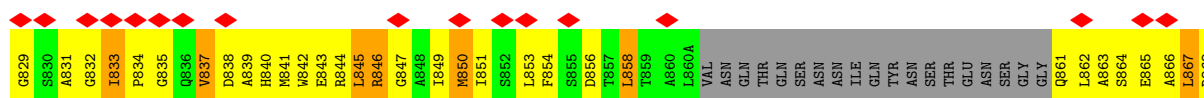


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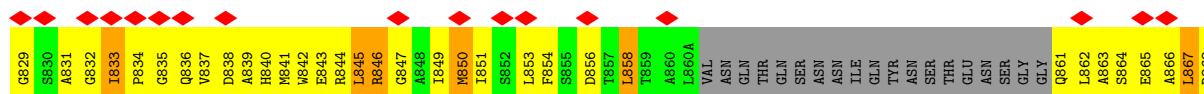
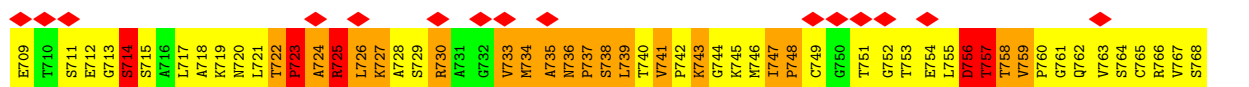
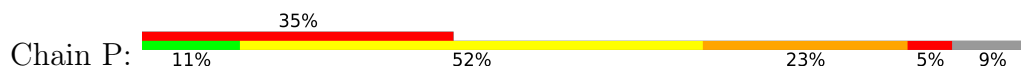


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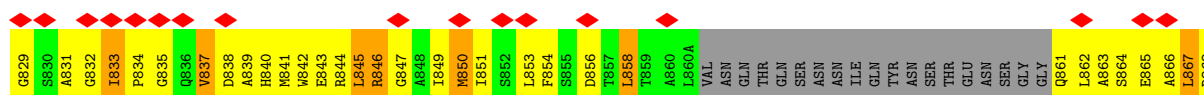
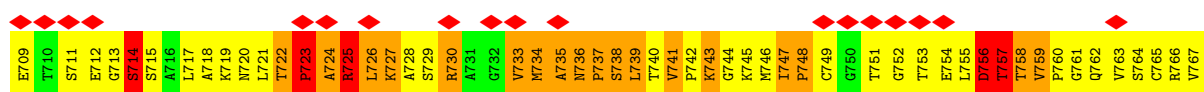
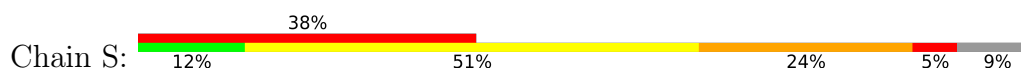




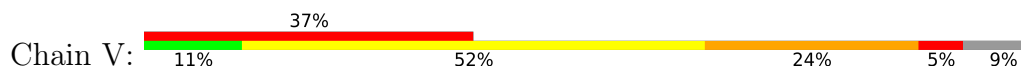
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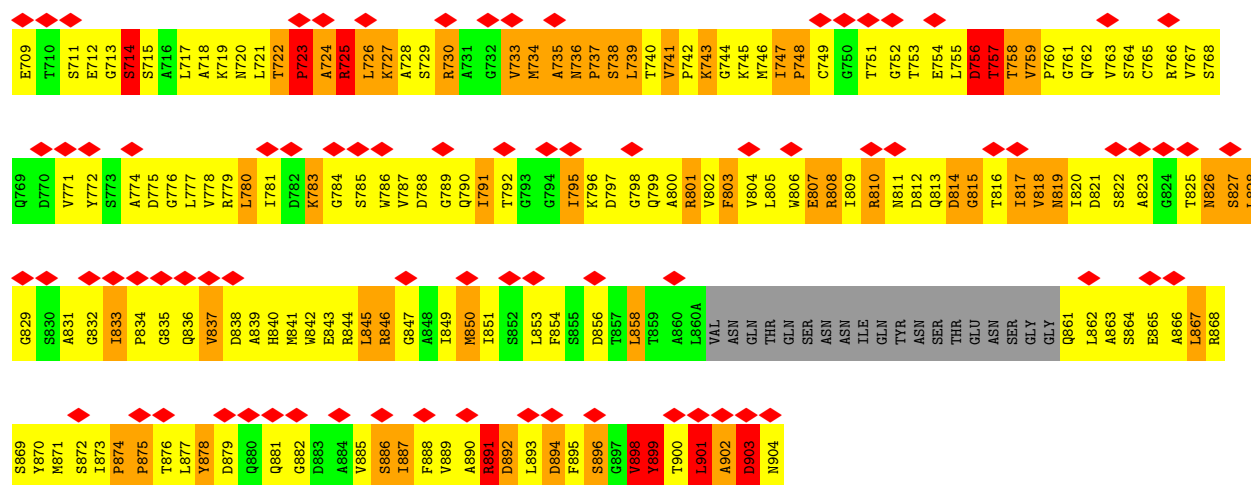


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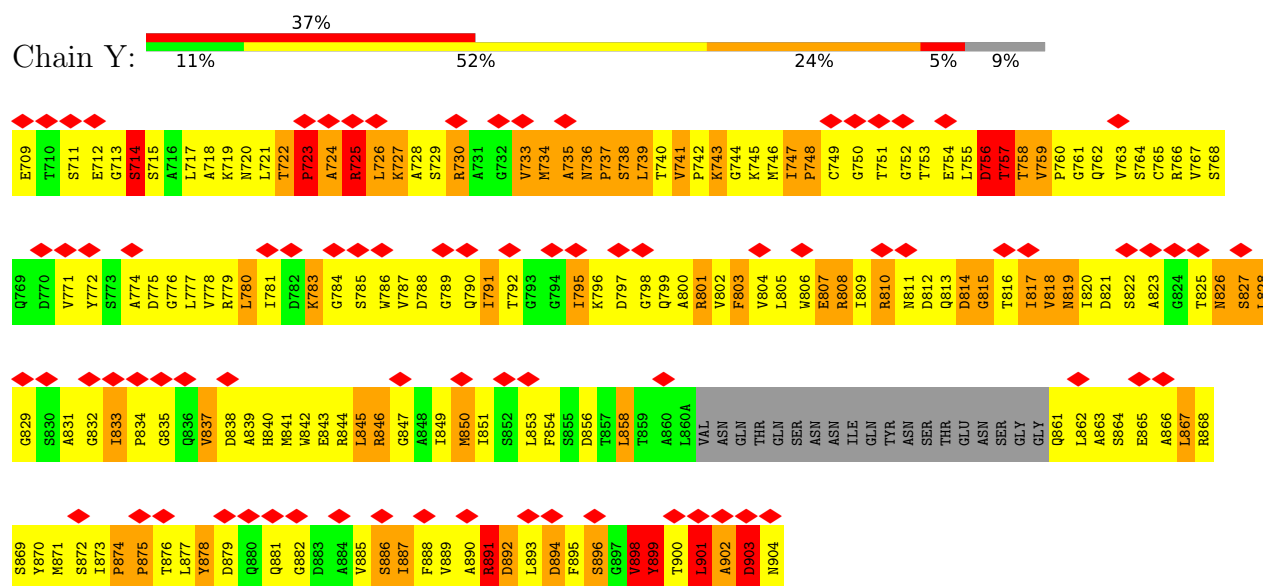


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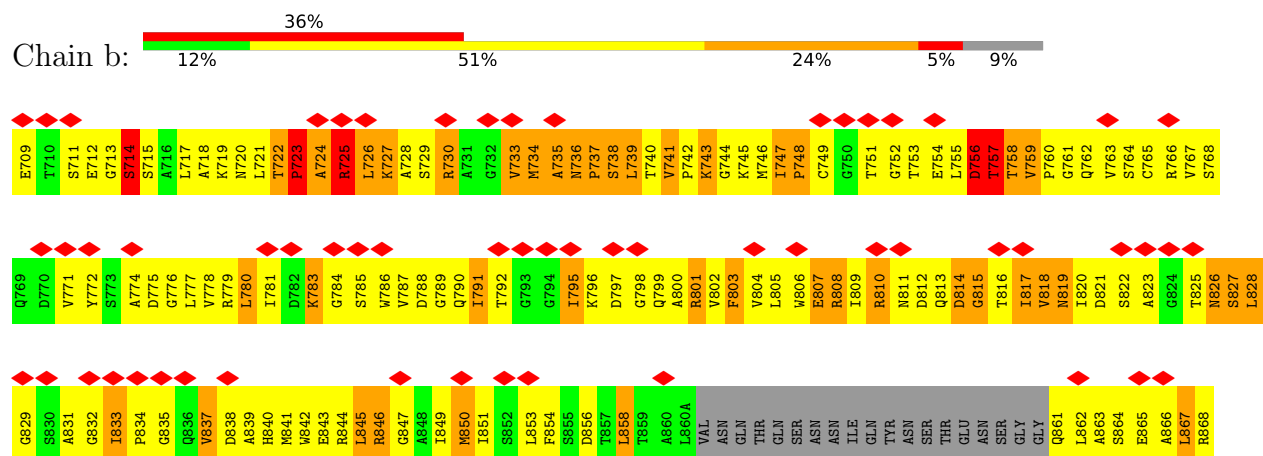




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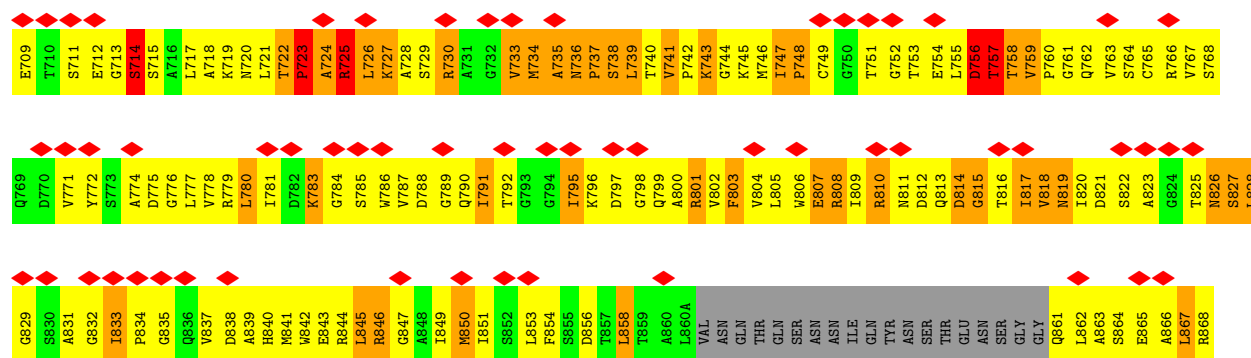
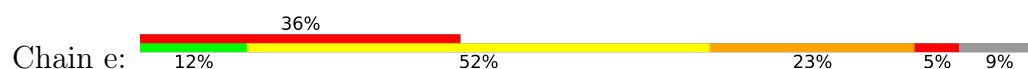


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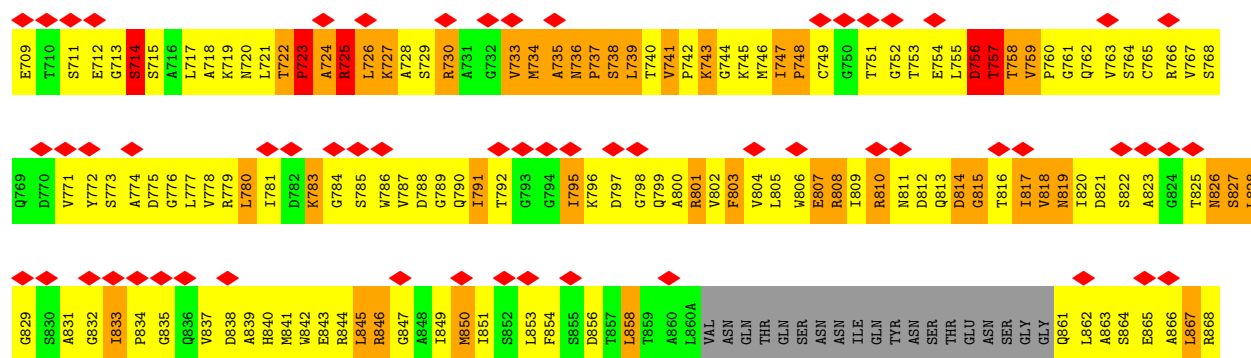
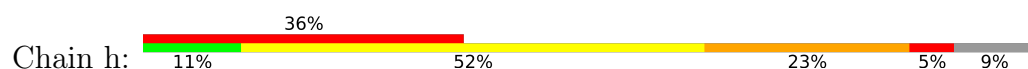




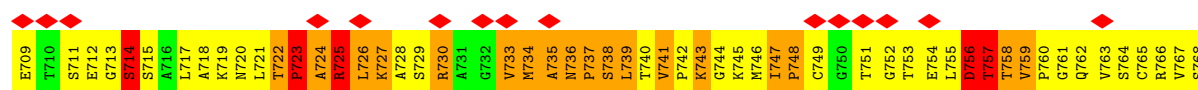
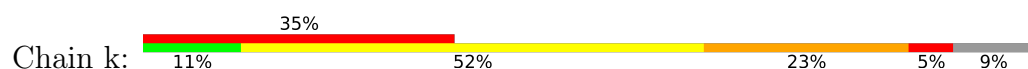
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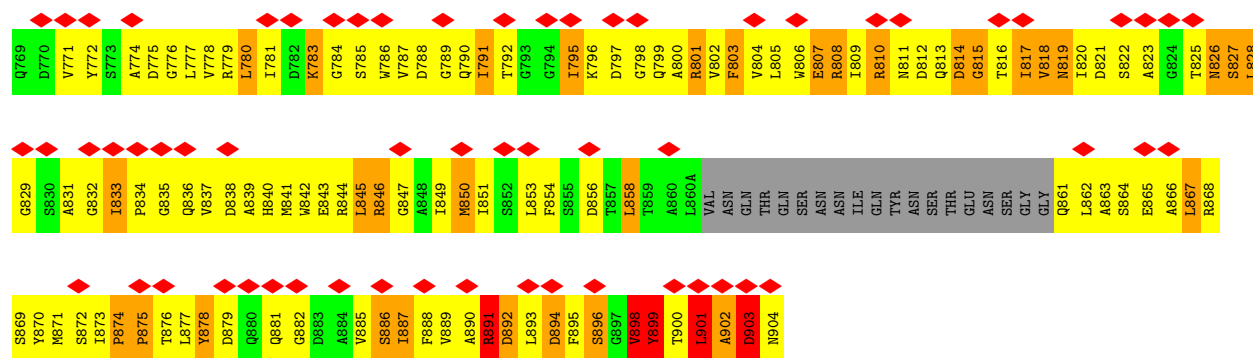


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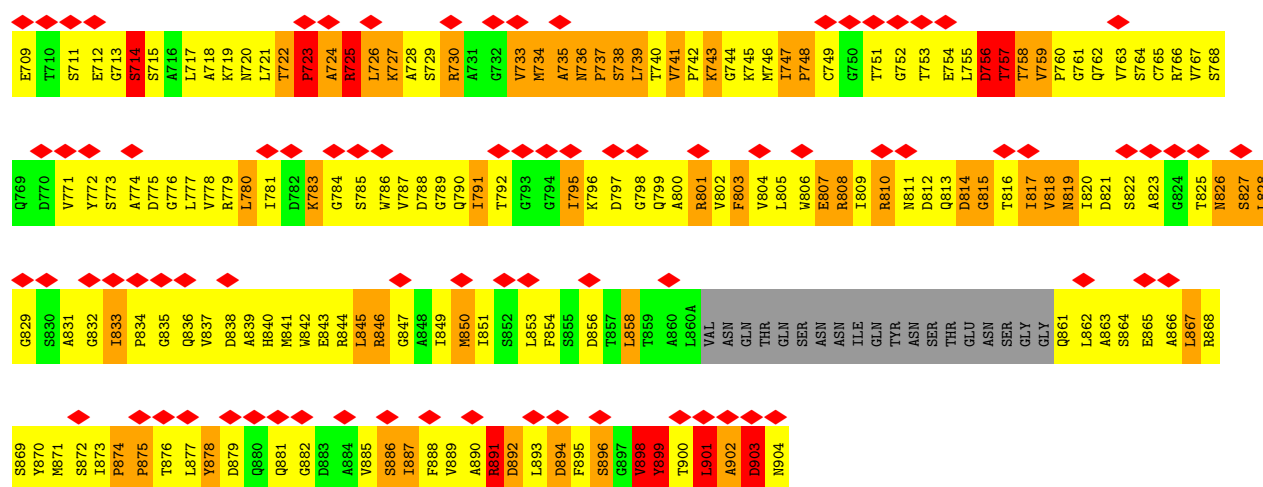
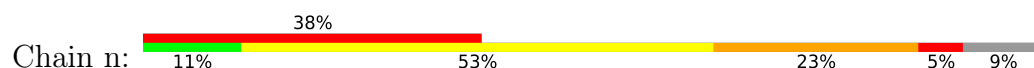


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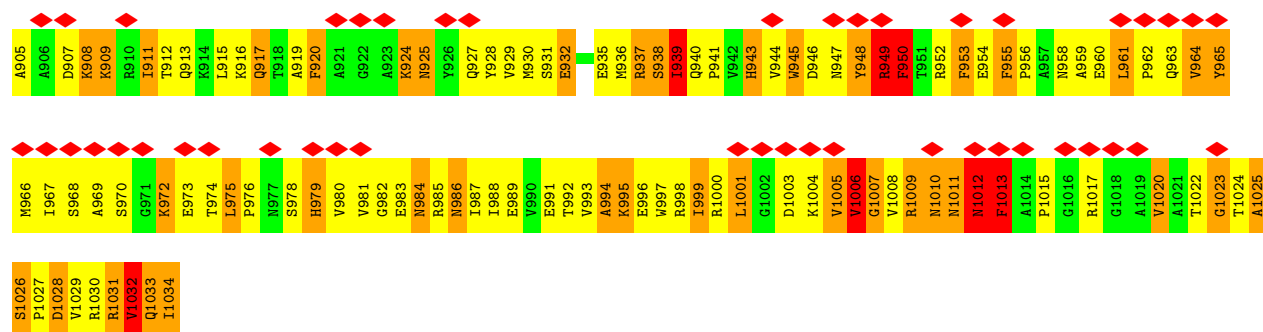
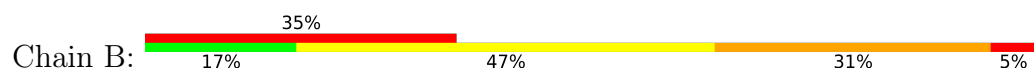




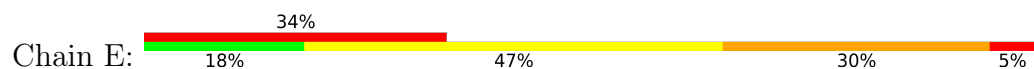
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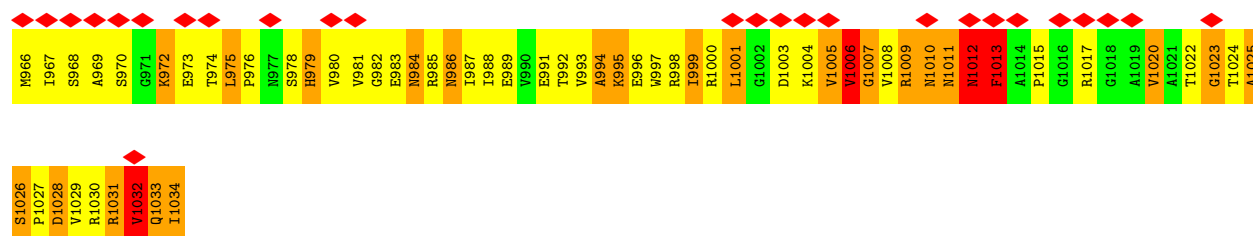


• Molecule 2: TRA0 PROTEIN

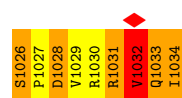
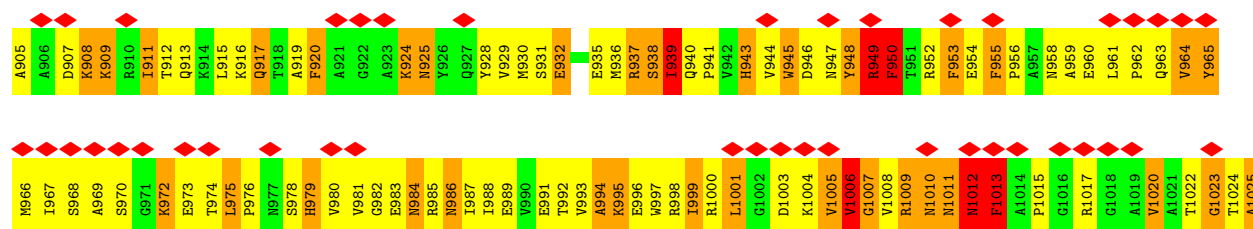
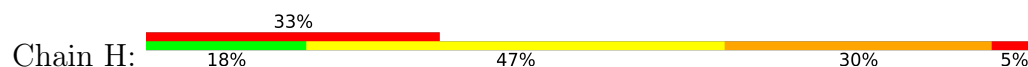


• Molecule 2: TRA0 PROTEIN

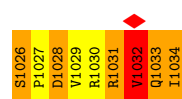
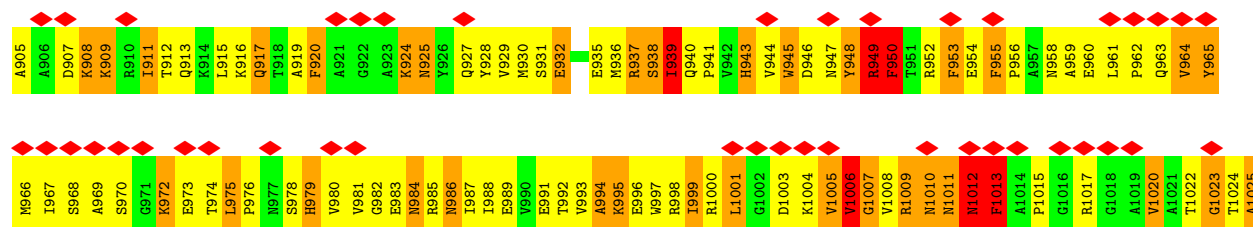
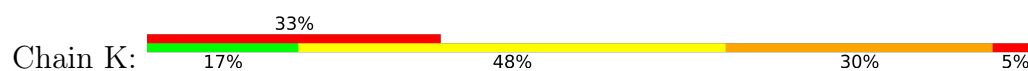




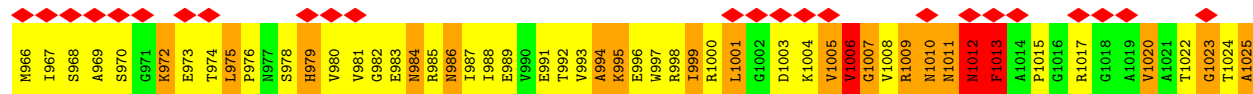
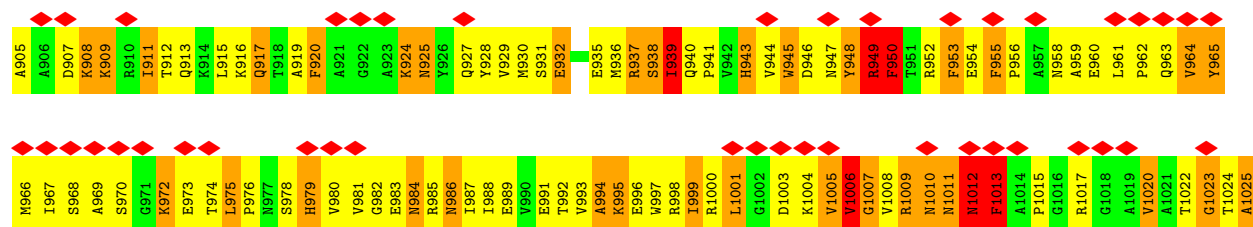
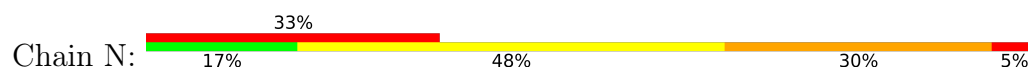
• Molecule 2: TRAO PROTEIN

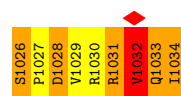


• Molecule 2: TRAO PROTEIN

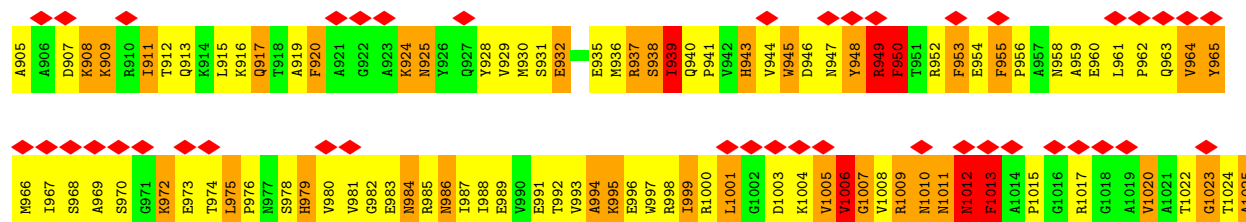
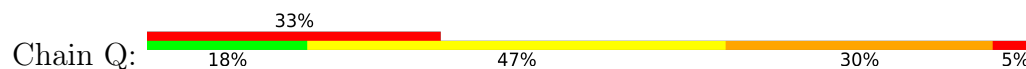


• Molecule 2: TRAO PROTEIN

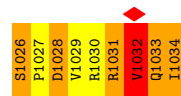
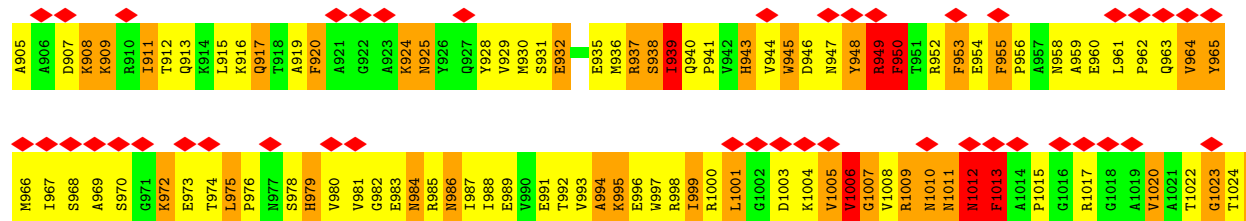
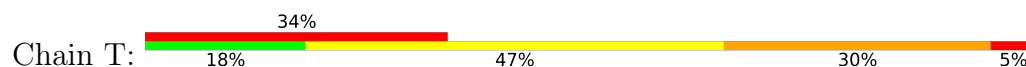




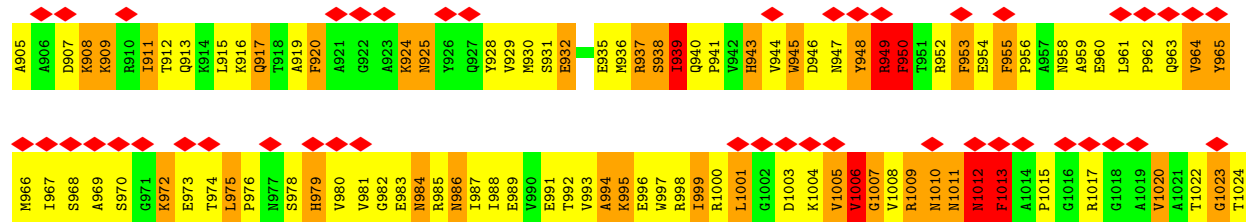
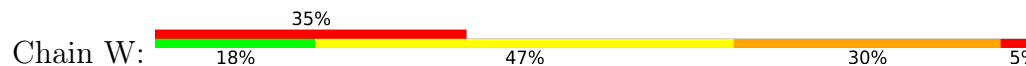
• Molecule 2: TRAO PROTEIN



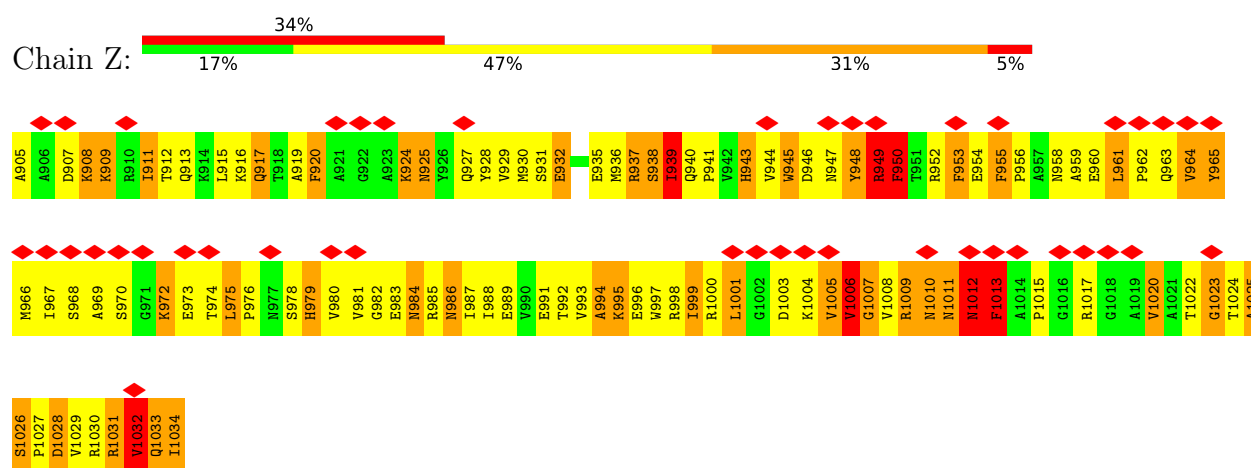
• Molecule 2: TRAO PROTEIN



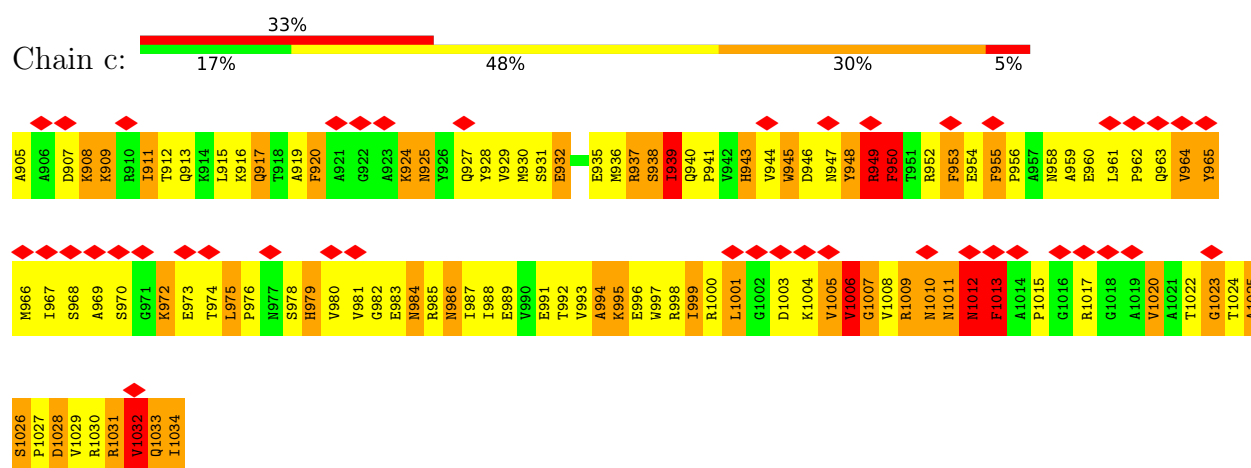
• Molecule 2: TRAO PROTEIN



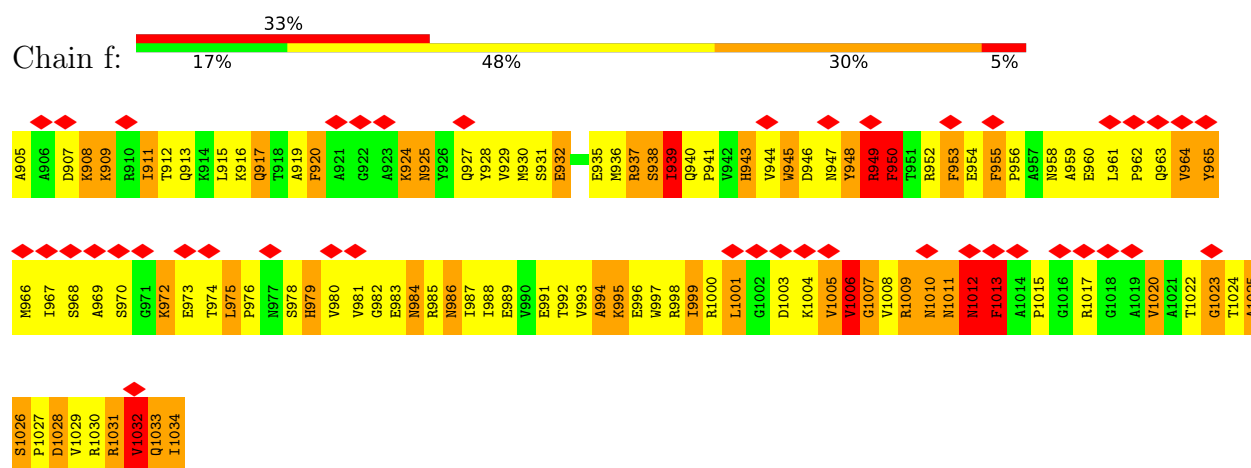
• Molecule 2: TRAO PROTEIN



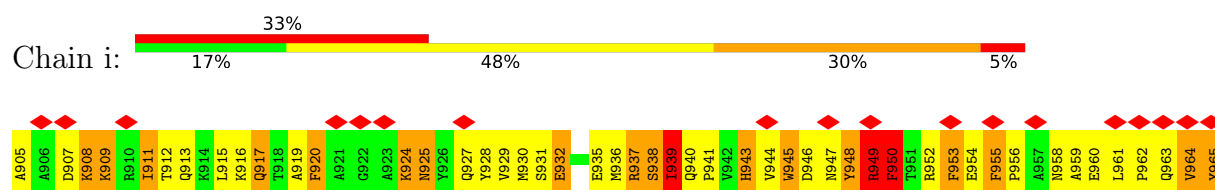
• Molecule 2: TRAO PROTEIN

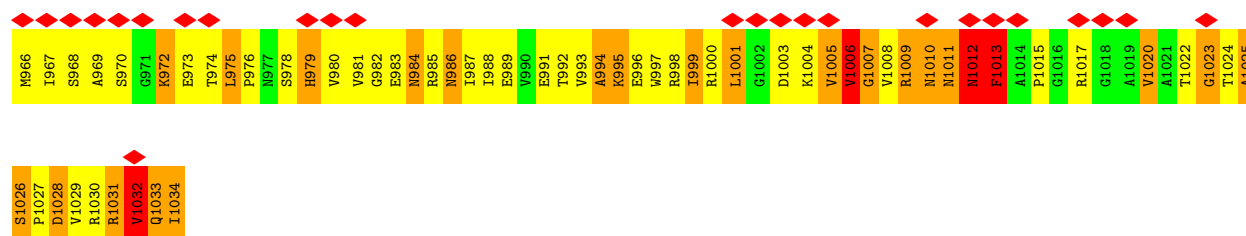


• Molecule 2: TRAO PROTEIN

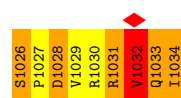
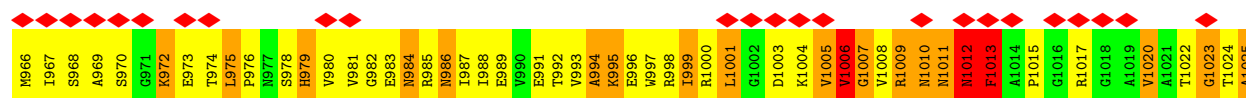
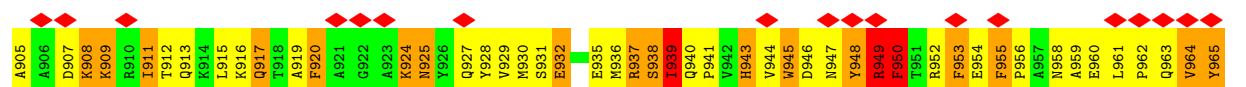
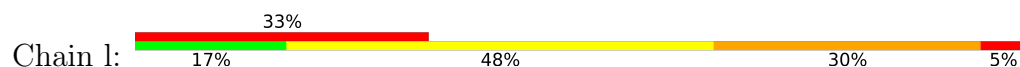


• Molecule 2: TRAO PROTEIN

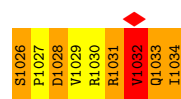
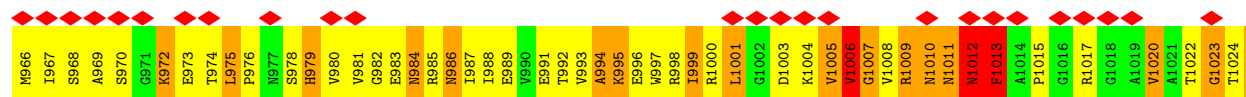
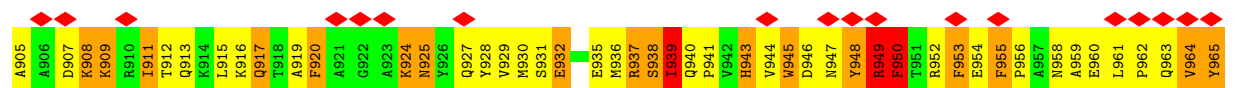
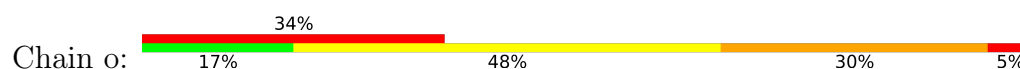




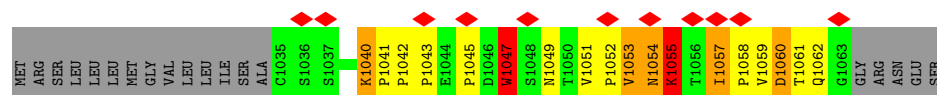
• Molecule 2: TRA0 PROTEIN



• Molecule 2: TRA0 PROTEIN



• Molecule 3: TRAN PROTEIN



• Molecule 3: TRAN PROTEIN





• Molecule 3: TRAN PROTEIN



• Molecule 3: TRAN PROTEIN



• Molecule 3: TRAN PROTEIN



• Molecule 3: TRAN PROTEIN



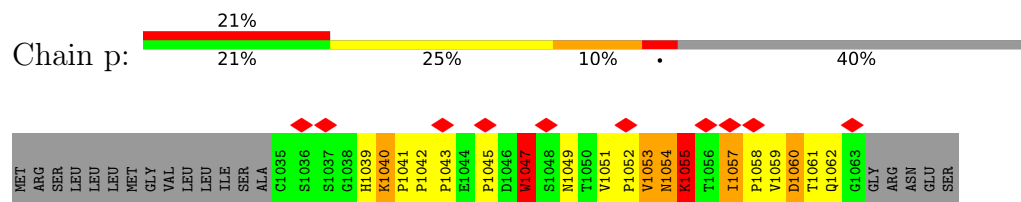
• Molecule 3: TRAN PROTEIN



• Molecule 3: TRAN PROTEIN



• Molecule 3: TRAN PROTEIN



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C14	Depositor
Number of particles used	5430	Depositor
Resolution determination method	Not provided	
CTF correction method	PHASE FLIPPING, EACH CCD IMAGE	Depositor
Microscope	FEI TECNAI 12	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	20	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	3500	Depositor
Magnification	68100	Depositor
Image detector	GENERIC GATAN	Depositor
Maximum map value	5.163	Depositor
Minimum map value	-3.082	Depositor
Average map value	0.019	Depositor
Map value standard deviation	0.223	Depositor
Recommended contour level	0.23	Depositor
Map size ($\text{\AA}$)	332.8, 332.8, 332.8	wwPDB
Map dimensions	160, 160, 160	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	2.08, 2.08, 2.08	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	D	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	G	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	J	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	M	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	P	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	S	1.51	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	V	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	Y	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	b	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	e	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	h	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	k	1.50	1/1480 (0.1%)	1.85	38/2007 (1.9%)
1	n	1.51	1/1480 (0.1%)	1.85	38/2007 (1.9%)
2	B	1.54	0/1055	1.79	25/1426 (1.8%)
2	E	1.54	1/1055 (0.1%)	1.79	25/1426 (1.8%)
2	H	1.54	0/1055	1.79	25/1426 (1.8%)
2	K	1.54	1/1055 (0.1%)	1.79	25/1426 (1.8%)
2	N	1.54	0/1055	1.79	25/1426 (1.8%)
2	Q	1.54	1/1055 (0.1%)	1.79	25/1426 (1.8%)
2	T	1.54	1/1055 (0.1%)	1.79	24/1426 (1.7%)
2	W	1.54	0/1055	1.79	25/1426 (1.8%)
2	Z	1.54	1/1055 (0.1%)	1.79	25/1426 (1.8%)
2	c	1.54	0/1055	1.79	25/1426 (1.8%)
2	f	1.54	1/1055 (0.1%)	1.79	25/1426 (1.8%)
2	i	1.54	0/1055	1.79	25/1426 (1.8%)
2	l	1.54	1/1055 (0.1%)	1.79	25/1426 (1.8%)
2	o	1.54	1/1055 (0.1%)	1.79	24/1426 (1.7%)
3	C	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	F	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	I	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	L	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	O	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	R	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
3	U	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	X	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	a	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	d	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	g	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	j	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	m	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
3	p	1.55	1/221 (0.5%)	1.76	3/307 (1.0%)
All	All	1.52	36/38584 (0.1%)	1.82	922/52360 (1.8%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5
1	D	0	5
1	G	0	5
1	J	0	5
1	M	0	5
1	P	0	5
1	S	0	5
1	V	0	5
1	Y	0	5
1	b	0	5
1	e	0	5
1	h	0	5
1	k	0	5
1	n	0	5
2	B	0	1
2	E	0	1
2	H	0	1
2	K	0	1
2	N	0	1
2	Q	0	1
2	T	0	1
2	W	0	1
2	Z	0	1
2	c	0	1
2	f	0	1
2	i	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	l	0	1
2	o	0	1
All	All	0	84

All (36) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	R	1055	LYS	CA-C	-5.61	1.49	1.52
3	m	1055	LYS	CA-C	-5.61	1.49	1.52
3	F	1055	LYS	CA-C	-5.60	1.49	1.52
3	a	1055	LYS	CA-C	-5.60	1.49	1.52
3	I	1055	LYS	CA-C	-5.54	1.49	1.52
3	d	1055	LYS	CA-C	-5.54	1.49	1.52
3	U	1055	LYS	CA-C	-5.52	1.49	1.52
3	p	1055	LYS	CA-C	-5.52	1.49	1.52
3	C	1055	LYS	CA-C	-5.52	1.49	1.52
3	X	1055	LYS	CA-C	-5.52	1.49	1.52
3	L	1055	LYS	CA-C	-5.51	1.49	1.52
3	g	1055	LYS	CA-C	-5.51	1.49	1.52
3	O	1055	LYS	CA-C	-5.48	1.49	1.52
3	j	1055	LYS	CA-C	-5.48	1.49	1.52
1	S	891	ARG	NE-CZ	5.45	1.39	1.33
1	n	891	ARG	NE-CZ	5.45	1.39	1.33
1	J	891	ARG	NE-CZ	5.39	1.39	1.33
1	e	891	ARG	NE-CZ	5.39	1.39	1.33
1	G	891	ARG	NE-CZ	5.38	1.39	1.33
1	b	891	ARG	NE-CZ	5.38	1.39	1.33
1	A	891	ARG	NE-CZ	5.37	1.39	1.33
1	V	891	ARG	NE-CZ	5.37	1.39	1.33
1	D	891	ARG	NE-CZ	5.33	1.39	1.33
1	Y	891	ARG	NE-CZ	5.33	1.39	1.33
1	P	891	ARG	NE-CZ	5.33	1.39	1.33
1	k	891	ARG	NE-CZ	5.33	1.39	1.33
1	M	891	ARG	NE-CZ	5.31	1.38	1.33
1	h	891	ARG	NE-CZ	5.31	1.38	1.33
2	Q	1028	ASP	CA-C	-5.03	1.46	1.52
2	l	1028	ASP	CA-C	-5.03	1.46	1.52
2	K	1028	ASP	CA-C	-5.02	1.46	1.52
2	f	1028	ASP	CA-C	-5.02	1.46	1.52
2	E	1028	ASP	CA-C	-5.00	1.46	1.52
2	T	1028	ASP	CA-C	-5.00	1.46	1.52
2	Z	1028	ASP	CA-C	-5.00	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	o	1028	ASP	CA-C	-5.00	1.46	1.52

All (922) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	J	903	ASP	CA-CB-CG	10.21	122.81	112.60
1	e	903	ASP	CA-CB-CG	10.21	122.81	112.60
1	D	903	ASP	CA-CB-CG	10.21	122.81	112.60
1	Y	903	ASP	CA-CB-CG	10.21	122.81	112.60
1	G	903	ASP	CA-CB-CG	10.20	122.80	112.60
1	b	903	ASP	CA-CB-CG	10.20	122.80	112.60
1	A	903	ASP	CA-CB-CG	10.20	122.80	112.60
1	V	903	ASP	CA-CB-CG	10.20	122.80	112.60
1	P	903	ASP	CA-CB-CG	10.20	122.80	112.60
1	k	903	ASP	CA-CB-CG	10.20	122.80	112.60
1	S	903	ASP	CA-CB-CG	10.19	122.79	112.60
1	n	903	ASP	CA-CB-CG	10.19	122.79	112.60
1	M	903	ASP	CA-CB-CG	10.18	122.78	112.60
1	h	903	ASP	CA-CB-CG	10.18	122.78	112.60
2	E	920	PHE	CA-CB-CG	-9.78	104.02	113.80
2	Q	920	PHE	CA-CB-CG	-9.78	104.02	113.80
2	Z	920	PHE	CA-CB-CG	-9.78	104.02	113.80
2	l	920	PHE	CA-CB-CG	-9.78	104.02	113.80
2	H	920	PHE	CA-CB-CG	-9.78	104.02	113.80
2	c	920	PHE	CA-CB-CG	-9.78	104.02	113.80
2	B	920	PHE	CA-CB-CG	-9.76	104.04	113.80
2	T	920	PHE	CA-CB-CG	-9.76	104.04	113.80
2	W	920	PHE	CA-CB-CG	-9.76	104.04	113.80
2	o	920	PHE	CA-CB-CG	-9.76	104.04	113.80
2	K	920	PHE	CA-CB-CG	-9.75	104.05	113.80
2	f	920	PHE	CA-CB-CG	-9.75	104.05	113.80
2	N	920	PHE	CA-CB-CG	-9.74	104.06	113.80
2	i	920	PHE	CA-CB-CG	-9.74	104.06	113.80
2	T	955	PHE	CA-CB-CG	-9.36	104.44	113.80
2	o	955	PHE	CA-CB-CG	-9.36	104.44	113.80
2	H	955	PHE	CA-CB-CG	-9.36	104.44	113.80
2	c	955	PHE	CA-CB-CG	-9.36	104.44	113.80
2	N	955	PHE	CA-CB-CG	-9.34	104.46	113.80
2	i	955	PHE	CA-CB-CG	-9.34	104.46	113.80
2	K	955	PHE	CA-CB-CG	-9.34	104.46	113.80
2	f	955	PHE	CA-CB-CG	-9.34	104.46	113.80
2	B	955	PHE	CA-CB-CG	-9.32	104.48	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	W	955	PHE	CA-CB-CG	-9.32	104.48	113.80
2	E	955	PHE	CA-CB-CG	-9.31	104.49	113.80
2	Z	955	PHE	CA-CB-CG	-9.31	104.49	113.80
2	Q	955	PHE	CA-CB-CG	-9.30	104.50	113.80
2	l	955	PHE	CA-CB-CG	-9.30	104.50	113.80
2	H	949	ARG	N-CA-C	-8.09	103.55	113.50
2	c	949	ARG	N-CA-C	-8.09	103.55	113.50
2	E	949	ARG	N-CA-C	-8.07	103.58	113.50
2	K	949	ARG	N-CA-C	-8.07	103.58	113.50
2	Z	949	ARG	N-CA-C	-8.07	103.58	113.50
2	f	949	ARG	N-CA-C	-8.07	103.58	113.50
2	B	949	ARG	N-CA-C	-8.06	103.58	113.50
2	W	949	ARG	N-CA-C	-8.06	103.58	113.50
2	N	949	ARG	N-CA-C	-8.06	103.58	113.50
2	i	949	ARG	N-CA-C	-8.06	103.58	113.50
2	Q	949	ARG	N-CA-C	-8.05	103.59	113.50
2	l	949	ARG	N-CA-C	-8.05	103.59	113.50
2	T	949	ARG	N-CA-C	-8.03	103.63	113.50
2	o	949	ARG	N-CA-C	-8.03	103.63	113.50
1	P	724	ALA	CA-C-N	-7.97	111.29	123.17
1	P	724	ALA	C-N-CA	-7.97	111.29	123.17
1	k	724	ALA	CA-C-N	-7.97	111.29	123.17
1	k	724	ALA	C-N-CA	-7.97	111.29	123.17
1	A	724	ALA	CA-C-N	-7.96	111.30	123.17
1	A	724	ALA	C-N-CA	-7.96	111.30	123.17
1	S	724	ALA	CA-C-N	-7.96	111.30	123.17
1	S	724	ALA	C-N-CA	-7.96	111.30	123.17
1	V	724	ALA	CA-C-N	-7.96	111.30	123.17
1	V	724	ALA	C-N-CA	-7.96	111.30	123.17
1	n	724	ALA	CA-C-N	-7.96	111.30	123.17
1	n	724	ALA	C-N-CA	-7.96	111.30	123.17
1	M	724	ALA	CA-C-N	-7.96	111.31	123.17
1	M	724	ALA	C-N-CA	-7.96	111.31	123.17
1	h	724	ALA	CA-C-N	-7.96	111.31	123.17
1	h	724	ALA	C-N-CA	-7.96	111.31	123.17
1	J	724	ALA	CA-C-N	-7.96	111.31	123.17
1	J	724	ALA	C-N-CA	-7.96	111.31	123.17
1	e	724	ALA	CA-C-N	-7.96	111.31	123.17
1	e	724	ALA	C-N-CA	-7.96	111.31	123.17
1	G	724	ALA	CA-C-N	-7.95	111.33	123.17
1	G	724	ALA	C-N-CA	-7.95	111.33	123.17
1	b	724	ALA	CA-C-N	-7.95	111.33	123.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	724	ALA	C-N-CA	-7.95	111.33	123.17
1	D	724	ALA	CA-C-N	-7.94	111.33	123.17
1	D	724	ALA	C-N-CA	-7.94	111.33	123.17
1	Y	724	ALA	CA-C-N	-7.94	111.33	123.17
1	Y	724	ALA	C-N-CA	-7.94	111.33	123.17
1	G	744	GLY	N-CA-C	-7.22	103.77	114.90
1	J	744	GLY	N-CA-C	-7.22	103.77	114.90
1	b	744	GLY	N-CA-C	-7.22	103.77	114.90
1	e	744	GLY	N-CA-C	-7.22	103.77	114.90
1	D	744	GLY	N-CA-C	-7.22	103.78	114.90
1	Y	744	GLY	N-CA-C	-7.22	103.78	114.90
1	A	744	GLY	N-CA-C	-7.21	103.79	114.90
1	V	744	GLY	N-CA-C	-7.21	103.79	114.90
1	M	744	GLY	N-CA-C	-7.21	103.80	114.90
1	P	744	GLY	N-CA-C	-7.21	103.80	114.90
1	h	744	GLY	N-CA-C	-7.21	103.80	114.90
1	k	744	GLY	N-CA-C	-7.21	103.80	114.90
1	S	744	GLY	N-CA-C	-7.18	103.84	114.90
1	n	744	GLY	N-CA-C	-7.18	103.84	114.90
1	P	807	GLU	CA-C-N	-7.03	112.28	122.19
1	P	807	GLU	C-N-CA	-7.03	112.28	122.19
1	k	807	GLU	CA-C-N	-7.03	112.28	122.19
1	k	807	GLU	C-N-CA	-7.03	112.28	122.19
1	S	807	GLU	CA-C-N	-7.02	112.30	122.19
1	S	807	GLU	C-N-CA	-7.02	112.30	122.19
1	n	807	GLU	CA-C-N	-7.02	112.30	122.19
1	n	807	GLU	C-N-CA	-7.02	112.30	122.19
1	J	807	GLU	CA-C-N	-7.02	112.30	122.19
1	J	807	GLU	C-N-CA	-7.02	112.30	122.19
1	e	807	GLU	CA-C-N	-7.02	112.30	122.19
1	e	807	GLU	C-N-CA	-7.02	112.30	122.19
1	A	807	GLU	CA-C-N	-7.01	112.31	122.19
1	A	807	GLU	C-N-CA	-7.01	112.31	122.19
1	M	807	GLU	CA-C-N	-7.01	112.31	122.19
1	M	807	GLU	C-N-CA	-7.01	112.31	122.19
1	V	807	GLU	CA-C-N	-7.01	112.31	122.19
1	V	807	GLU	C-N-CA	-7.01	112.31	122.19
1	h	807	GLU	CA-C-N	-7.01	112.31	122.19
1	h	807	GLU	C-N-CA	-7.01	112.31	122.19
1	G	807	GLU	CA-C-N	-7.00	112.31	122.19
1	G	807	GLU	C-N-CA	-7.00	112.31	122.19
1	b	807	GLU	CA-C-N	-7.00	112.31	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	807	GLU	C-N-CA	-7.00	112.31	122.19
1	D	807	GLU	CA-C-N	-7.00	112.32	122.19
1	D	807	GLU	C-N-CA	-7.00	112.32	122.19
1	Y	807	GLU	CA-C-N	-7.00	112.32	122.19
1	Y	807	GLU	C-N-CA	-7.00	112.32	122.19
2	E	925	ASN	CA-CB-CG	6.89	119.49	112.60
2	Z	925	ASN	CA-CB-CG	6.89	119.49	112.60
2	Q	925	ASN	CA-CB-CG	6.87	119.47	112.60
2	l	925	ASN	CA-CB-CG	6.87	119.47	112.60
2	H	925	ASN	CA-CB-CG	6.86	119.46	112.60
2	c	925	ASN	CA-CB-CG	6.86	119.46	112.60
2	T	925	ASN	CA-CB-CG	6.84	119.44	112.60
2	o	925	ASN	CA-CB-CG	6.84	119.44	112.60
2	B	925	ASN	CA-CB-CG	6.84	119.44	112.60
2	W	925	ASN	CA-CB-CG	6.84	119.44	112.60
2	K	986	ASN	CA-CB-CG	-6.84	105.76	112.60
2	f	986	ASN	CA-CB-CG	-6.84	105.76	112.60
2	T	986	ASN	CA-CB-CG	-6.84	105.76	112.60
2	o	986	ASN	CA-CB-CG	-6.84	105.76	112.60
2	K	925	ASN	CA-CB-CG	6.83	119.44	112.60
2	f	925	ASN	CA-CB-CG	6.83	119.44	112.60
2	Q	986	ASN	CA-CB-CG	-6.82	105.78	112.60
2	l	986	ASN	CA-CB-CG	-6.82	105.78	112.60
2	H	986	ASN	CA-CB-CG	-6.82	105.78	112.60
2	c	986	ASN	CA-CB-CG	-6.82	105.78	112.60
2	B	986	ASN	CA-CB-CG	-6.82	105.78	112.60
2	W	986	ASN	CA-CB-CG	-6.82	105.78	112.60
2	N	986	ASN	CA-CB-CG	-6.82	105.78	112.60
2	i	986	ASN	CA-CB-CG	-6.82	105.78	112.60
2	N	925	ASN	CA-CB-CG	6.81	119.41	112.60
2	i	925	ASN	CA-CB-CG	6.81	119.41	112.60
2	E	986	ASN	CA-CB-CG	-6.79	105.81	112.60
2	Z	986	ASN	CA-CB-CG	-6.79	105.81	112.60
3	R	1047	TRP	N-CA-C	-6.75	105.58	113.88
3	m	1047	TRP	N-CA-C	-6.75	105.58	113.88
3	L	1047	TRP	N-CA-C	-6.71	105.63	113.88
3	g	1047	TRP	N-CA-C	-6.71	105.63	113.88
3	C	1047	TRP	N-CA-C	-6.71	105.63	113.88
3	U	1047	TRP	N-CA-C	-6.71	105.63	113.88
3	X	1047	TRP	N-CA-C	-6.71	105.63	113.88
3	p	1047	TRP	N-CA-C	-6.71	105.63	113.88
3	O	1047	TRP	N-CA-C	-6.70	105.64	113.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	j	1047	TRP	N-CA-C	-6.70	105.64	113.88
3	I	1047	TRP	N-CA-C	-6.70	105.64	113.88
3	d	1047	TRP	N-CA-C	-6.70	105.64	113.88
3	F	1047	TRP	N-CA-C	-6.69	105.65	113.88
3	a	1047	TRP	N-CA-C	-6.69	105.65	113.88
1	M	758	THR	CA-C-N	-6.54	116.23	123.43
1	M	758	THR	C-N-CA	-6.54	116.23	123.43
1	h	758	THR	CA-C-N	-6.54	116.23	123.43
1	h	758	THR	C-N-CA	-6.54	116.23	123.43
1	P	758	THR	CA-C-N	-6.54	116.24	123.43
1	P	758	THR	C-N-CA	-6.54	116.24	123.43
1	k	758	THR	CA-C-N	-6.54	116.24	123.43
1	k	758	THR	C-N-CA	-6.54	116.24	123.43
1	J	758	THR	CA-C-N	-6.54	116.24	123.43
1	J	758	THR	C-N-CA	-6.54	116.24	123.43
1	e	758	THR	CA-C-N	-6.54	116.24	123.43
1	e	758	THR	C-N-CA	-6.54	116.24	123.43
1	G	758	THR	CA-C-N	-6.53	116.25	123.43
1	G	758	THR	C-N-CA	-6.53	116.25	123.43
1	b	758	THR	CA-C-N	-6.53	116.25	123.43
1	b	758	THR	C-N-CA	-6.53	116.25	123.43
1	J	814	ASP	CA-CB-CG	-6.53	106.08	112.60
1	e	814	ASP	CA-CB-CG	-6.53	106.08	112.60
1	G	814	ASP	CA-CB-CG	-6.52	106.08	112.60
1	b	814	ASP	CA-CB-CG	-6.52	106.08	112.60
1	A	758	THR	CA-C-N	-6.51	116.27	123.43
1	A	758	THR	C-N-CA	-6.51	116.27	123.43
1	V	758	THR	CA-C-N	-6.51	116.27	123.43
1	V	758	THR	C-N-CA	-6.51	116.27	123.43
1	D	758	THR	CA-C-N	-6.50	116.28	123.43
1	D	758	THR	C-N-CA	-6.50	116.28	123.43
1	Y	758	THR	CA-C-N	-6.50	116.28	123.43
1	Y	758	THR	C-N-CA	-6.50	116.28	123.43
1	S	758	THR	CA-C-N	-6.50	116.28	123.43
1	S	758	THR	C-N-CA	-6.50	116.28	123.43
1	n	758	THR	CA-C-N	-6.50	116.28	123.43
1	n	758	THR	C-N-CA	-6.50	116.28	123.43
1	A	814	ASP	CA-CB-CG	-6.49	106.11	112.60
1	V	814	ASP	CA-CB-CG	-6.49	106.11	112.60
1	S	814	ASP	CA-CB-CG	-6.49	106.11	112.60
1	n	814	ASP	CA-CB-CG	-6.49	106.11	112.60
1	P	814	ASP	CA-CB-CG	-6.48	106.12	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	814	ASP	CA-CB-CG	-6.48	106.12	112.60
1	D	814	ASP	CA-CB-CG	-6.47	106.13	112.60
1	M	814	ASP	CA-CB-CG	-6.47	106.13	112.60
1	Y	814	ASP	CA-CB-CG	-6.47	106.13	112.60
1	h	814	ASP	CA-CB-CG	-6.47	106.13	112.60
1	J	748	PRO	N-CA-CB	6.46	107.05	102.65
1	e	748	PRO	N-CA-CB	6.46	107.05	102.65
1	M	748	PRO	N-CA-CB	6.46	107.04	102.65
1	h	748	PRO	N-CA-CB	6.46	107.04	102.65
1	A	748	PRO	N-CA-CB	6.45	107.03	102.65
1	V	748	PRO	N-CA-CB	6.45	107.03	102.65
1	G	748	PRO	N-CA-CB	6.44	107.03	102.65
1	S	748	PRO	N-CA-CB	6.44	107.03	102.65
1	b	748	PRO	N-CA-CB	6.44	107.03	102.65
1	n	748	PRO	N-CA-CB	6.44	107.03	102.65
1	D	748	PRO	N-CA-CB	6.44	107.03	102.65
1	Y	748	PRO	N-CA-CB	6.44	107.03	102.65
1	P	748	PRO	N-CA-CB	6.43	107.02	102.65
1	k	748	PRO	N-CA-CB	6.43	107.02	102.65
2	E	983	GLU	N-CA-C	-6.37	104.26	111.07
2	Z	983	GLU	N-CA-C	-6.37	104.26	111.07
2	K	983	GLU	N-CA-C	-6.37	104.26	111.07
2	f	983	GLU	N-CA-C	-6.37	104.26	111.07
2	B	983	GLU	N-CA-C	-6.36	104.27	111.07
2	T	983	GLU	N-CA-C	-6.36	104.27	111.07
2	W	983	GLU	N-CA-C	-6.36	104.27	111.07
2	o	983	GLU	N-CA-C	-6.36	104.27	111.07
2	H	983	GLU	N-CA-C	-6.35	104.27	111.07
2	c	983	GLU	N-CA-C	-6.35	104.27	111.07
2	Q	983	GLU	N-CA-C	-6.35	104.27	111.07
2	l	983	GLU	N-CA-C	-6.35	104.27	111.07
3	O	1060	ASP	CA-CB-CG	-6.35	106.25	112.60
3	j	1060	ASP	CA-CB-CG	-6.35	106.25	112.60
3	U	1060	ASP	CA-CB-CG	-6.34	106.26	112.60
3	p	1060	ASP	CA-CB-CG	-6.34	106.26	112.60
2	N	983	GLU	N-CA-C	-6.34	104.28	111.07
2	i	983	GLU	N-CA-C	-6.34	104.28	111.07
3	L	1060	ASP	CA-CB-CG	-6.34	106.26	112.60
3	g	1060	ASP	CA-CB-CG	-6.34	106.26	112.60
3	C	1060	ASP	CA-CB-CG	-6.33	106.27	112.60
3	X	1060	ASP	CA-CB-CG	-6.33	106.27	112.60
3	F	1060	ASP	CA-CB-CG	-6.33	106.27	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	a	1060	ASP	CA-CB-CG	-6.33	106.27	112.60
3	I	1060	ASP	CA-CB-CG	-6.33	106.27	112.60
3	d	1060	ASP	CA-CB-CG	-6.33	106.27	112.60
3	R	1060	ASP	CA-CB-CG	-6.33	106.27	112.60
3	m	1060	ASP	CA-CB-CG	-6.33	106.27	112.60
1	J	736	ASN	CA-C-N	6.32	125.89	119.19
1	J	736	ASN	C-N-CA	6.32	125.89	119.19
1	e	736	ASN	CA-C-N	6.32	125.89	119.19
1	e	736	ASN	C-N-CA	6.32	125.89	119.19
1	G	736	ASN	CA-C-N	6.30	125.87	119.19
1	G	736	ASN	C-N-CA	6.30	125.87	119.19
1	b	736	ASN	CA-C-N	6.30	125.87	119.19
1	b	736	ASN	C-N-CA	6.30	125.87	119.19
1	D	894	ASP	CA-CB-CG	-6.30	106.30	112.60
1	Y	894	ASP	CA-CB-CG	-6.30	106.30	112.60
1	D	736	ASN	CA-C-N	6.29	125.86	119.19
1	D	736	ASN	C-N-CA	6.29	125.86	119.19
1	Y	736	ASN	CA-C-N	6.29	125.86	119.19
1	Y	736	ASN	C-N-CA	6.29	125.86	119.19
1	M	736	ASN	CA-C-N	6.29	125.86	119.19
1	M	736	ASN	C-N-CA	6.29	125.86	119.19
1	h	736	ASN	CA-C-N	6.29	125.86	119.19
1	h	736	ASN	C-N-CA	6.29	125.86	119.19
1	G	894	ASP	CA-CB-CG	-6.28	106.32	112.60
1	J	894	ASP	CA-CB-CG	-6.28	106.32	112.60
1	b	894	ASP	CA-CB-CG	-6.28	106.32	112.60
1	e	894	ASP	CA-CB-CG	-6.28	106.32	112.60
1	A	736	ASN	CA-C-N	6.28	125.85	119.19
1	A	736	ASN	C-N-CA	6.28	125.85	119.19
1	V	736	ASN	CA-C-N	6.28	125.85	119.19
1	V	736	ASN	C-N-CA	6.28	125.85	119.19
1	M	776	GLY	N-CA-C	-6.28	106.24	115.72
1	h	776	GLY	N-CA-C	-6.28	106.24	115.72
1	S	776	GLY	N-CA-C	-6.28	106.24	115.72
1	n	776	GLY	N-CA-C	-6.28	106.24	115.72
1	G	739	LEU	N-CA-C	-6.27	105.76	113.41
1	b	739	LEU	N-CA-C	-6.27	105.76	113.41
1	J	739	LEU	N-CA-C	-6.27	105.76	113.41
1	e	739	LEU	N-CA-C	-6.27	105.76	113.41
1	D	739	LEU	N-CA-C	-6.27	105.77	113.41
1	Y	739	LEU	N-CA-C	-6.27	105.77	113.41
1	A	739	LEU	N-CA-C	-6.26	105.77	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	791	ILE	CB-CA-C	-6.26	103.39	111.53
1	V	739	LEU	N-CA-C	-6.26	105.77	113.41
1	k	791	ILE	CB-CA-C	-6.26	103.39	111.53
1	G	776	GLY	N-CA-C	-6.26	106.26	115.72
1	b	776	GLY	N-CA-C	-6.26	106.26	115.72
1	S	739	LEU	N-CA-C	-6.26	105.77	113.41
1	n	739	LEU	N-CA-C	-6.26	105.77	113.41
1	D	791	ILE	CB-CA-C	-6.26	103.39	111.53
1	M	739	LEU	N-CA-C	-6.26	105.77	113.41
1	Y	791	ILE	CB-CA-C	-6.26	103.39	111.53
1	h	739	LEU	N-CA-C	-6.26	105.77	113.41
1	A	894	ASP	CA-CB-CG	-6.26	106.34	112.60
1	P	739	LEU	N-CA-C	-6.26	105.78	113.41
1	V	894	ASP	CA-CB-CG	-6.26	106.34	112.60
1	k	739	LEU	N-CA-C	-6.26	105.78	113.41
1	J	776	GLY	N-CA-C	-6.26	106.27	115.72
1	e	776	GLY	N-CA-C	-6.26	106.27	115.72
1	P	776	GLY	N-CA-C	-6.25	106.28	115.72
1	k	776	GLY	N-CA-C	-6.25	106.28	115.72
1	A	776	GLY	N-CA-C	-6.25	106.28	115.72
2	H	953	PHE	CB-CA-C	-6.25	101.54	111.17
1	M	791	ILE	CB-CA-C	-6.25	103.40	111.53
1	P	894	ASP	CA-CB-CG	-6.25	106.35	112.60
1	V	776	GLY	N-CA-C	-6.25	106.28	115.72
2	c	953	PHE	CB-CA-C	-6.25	101.54	111.17
1	h	791	ILE	CB-CA-C	-6.25	103.40	111.53
1	k	894	ASP	CA-CB-CG	-6.25	106.35	112.60
1	S	894	ASP	CA-CB-CG	-6.25	106.35	112.60
1	n	894	ASP	CA-CB-CG	-6.25	106.35	112.60
2	N	953	PHE	CB-CA-C	-6.24	101.55	111.17
2	i	953	PHE	CB-CA-C	-6.24	101.55	111.17
1	D	776	GLY	N-CA-C	-6.24	106.30	115.72
1	J	791	ILE	CB-CA-C	-6.24	103.42	111.53
1	S	736	ASN	CA-C-N	6.24	125.81	119.19
1	S	736	ASN	C-N-CA	6.24	125.81	119.19
1	Y	776	GLY	N-CA-C	-6.24	106.30	115.72
1	e	791	ILE	CB-CA-C	-6.24	103.42	111.53
1	n	736	ASN	CA-C-N	6.24	125.81	119.19
1	n	736	ASN	C-N-CA	6.24	125.81	119.19
1	A	791	ILE	CB-CA-C	-6.24	103.42	111.53
2	E	953	PHE	CB-CA-C	-6.24	101.56	111.17
2	T	953	PHE	CB-CA-C	-6.24	101.56	111.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	791	ILE	CB-CA-C	-6.24	103.42	111.53
2	Z	953	PHE	CB-CA-C	-6.24	101.56	111.17
2	o	953	PHE	CB-CA-C	-6.24	101.56	111.17
1	G	791	ILE	CB-CA-C	-6.24	103.42	111.53
1	b	791	ILE	CB-CA-C	-6.24	103.42	111.53
2	B	953	PHE	CB-CA-C	-6.23	101.57	111.17
1	S	892	ASP	CA-CB-CG	-6.23	106.37	112.60
2	W	953	PHE	CB-CA-C	-6.23	101.57	111.17
1	n	892	ASP	CA-CB-CG	-6.23	106.37	112.60
1	G	892	ASP	CA-CB-CG	-6.23	106.37	112.60
1	b	892	ASP	CA-CB-CG	-6.23	106.37	112.60
2	Q	953	PHE	CB-CA-C	-6.23	101.58	111.17
1	S	791	ILE	CB-CA-C	-6.23	103.44	111.53
2	l	953	PHE	CB-CA-C	-6.23	101.58	111.17
1	n	791	ILE	CB-CA-C	-6.23	103.44	111.53
1	P	736	ASN	CA-C-N	6.22	125.79	119.19
1	P	736	ASN	C-N-CA	6.22	125.79	119.19
1	k	736	ASN	CA-C-N	6.22	125.79	119.19
1	k	736	ASN	C-N-CA	6.22	125.79	119.19
1	A	892	ASP	CA-CB-CG	-6.22	106.38	112.60
1	M	894	ASP	CA-CB-CG	-6.22	106.38	112.60
1	V	892	ASP	CA-CB-CG	-6.22	106.38	112.60
1	h	894	ASP	CA-CB-CG	-6.22	106.38	112.60
1	M	892	ASP	CA-CB-CG	-6.22	106.38	112.60
1	h	892	ASP	CA-CB-CG	-6.22	106.38	112.60
1	P	892	ASP	CA-CB-CG	-6.21	106.39	112.60
1	k	892	ASP	CA-CB-CG	-6.21	106.39	112.60
1	D	892	ASP	CA-CB-CG	-6.21	106.39	112.60
1	J	892	ASP	CA-CB-CG	-6.21	106.39	112.60
1	Y	892	ASP	CA-CB-CG	-6.21	106.39	112.60
1	e	892	ASP	CA-CB-CG	-6.21	106.39	112.60
2	K	953	PHE	CB-CA-C	-6.21	101.61	111.17
2	f	953	PHE	CB-CA-C	-6.21	101.61	111.17
1	P	738	SER	N-CA-C	-6.13	105.39	112.92
1	k	738	SER	N-CA-C	-6.13	105.39	112.92
1	M	738	SER	N-CA-C	-6.12	105.39	112.92
1	h	738	SER	N-CA-C	-6.12	105.39	112.92
1	M	899	TYR	CA-CB-CG	-6.11	102.90	113.90
1	h	899	TYR	CA-CB-CG	-6.11	102.90	113.90
1	J	899	TYR	CA-CB-CG	-6.11	102.90	113.90
1	S	899	TYR	CA-CB-CG	-6.11	102.90	113.90
1	e	899	TYR	CA-CB-CG	-6.11	102.90	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	899	TYR	CA-CB-CG	-6.11	102.90	113.90
1	A	899	TYR	CA-CB-CG	-6.11	102.91	113.90
1	V	899	TYR	CA-CB-CG	-6.11	102.91	113.90
1	A	738	SER	N-CA-C	-6.11	105.41	112.92
1	D	899	TYR	CA-CB-CG	-6.11	102.91	113.90
1	G	899	TYR	CA-CB-CG	-6.11	102.91	113.90
1	V	738	SER	N-CA-C	-6.11	105.41	112.92
1	Y	899	TYR	CA-CB-CG	-6.11	102.91	113.90
1	b	899	TYR	CA-CB-CG	-6.11	102.91	113.90
1	G	738	SER	N-CA-C	-6.10	105.41	112.92
1	b	738	SER	N-CA-C	-6.10	105.41	112.92
1	S	738	SER	N-CA-C	-6.10	105.42	112.92
1	n	738	SER	N-CA-C	-6.10	105.42	112.92
1	D	738	SER	N-CA-C	-6.09	105.43	112.92
1	Y	738	SER	N-CA-C	-6.09	105.43	112.92
1	P	899	TYR	CA-CB-CG	-6.09	102.94	113.90
1	k	899	TYR	CA-CB-CG	-6.09	102.94	113.90
1	J	738	SER	N-CA-C	-6.08	105.44	112.92
1	e	738	SER	N-CA-C	-6.08	105.44	112.92
1	M	713	GLY	N-CA-C	-5.96	106.26	115.73
1	h	713	GLY	N-CA-C	-5.96	106.26	115.73
1	A	713	GLY	N-CA-C	-5.95	106.28	115.73
1	V	713	GLY	N-CA-C	-5.95	106.28	115.73
1	S	713	GLY	N-CA-C	-5.94	106.29	115.73
1	n	713	GLY	N-CA-C	-5.94	106.29	115.73
1	D	713	GLY	N-CA-C	-5.93	106.30	115.73
1	J	713	GLY	N-CA-C	-5.93	106.29	115.73
1	Y	713	GLY	N-CA-C	-5.93	106.30	115.73
1	e	713	GLY	N-CA-C	-5.93	106.29	115.73
1	G	713	GLY	N-CA-C	-5.93	106.30	115.73
1	b	713	GLY	N-CA-C	-5.93	106.30	115.73
1	P	713	GLY	N-CA-C	-5.93	106.30	115.73
1	k	713	GLY	N-CA-C	-5.93	106.30	115.73
1	G	714	SER	N-CA-C	-5.80	104.88	111.14
1	b	714	SER	N-CA-C	-5.80	104.88	111.14
1	D	714	SER	N-CA-C	-5.79	104.89	111.14
1	M	714	SER	N-CA-C	-5.79	104.89	111.14
1	Y	714	SER	N-CA-C	-5.79	104.89	111.14
1	h	714	SER	N-CA-C	-5.79	104.89	111.14
1	J	714	SER	N-CA-C	-5.79	104.89	111.14
1	e	714	SER	N-CA-C	-5.79	104.89	111.14
1	G	827	SER	N-CA-C	-5.78	104.88	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	827	SER	N-CA-C	-5.78	104.88	111.07
1	b	827	SER	N-CA-C	-5.78	104.88	111.07
1	k	827	SER	N-CA-C	-5.78	104.88	111.07
1	A	714	SER	N-CA-C	-5.78	104.89	111.14
1	V	714	SER	N-CA-C	-5.78	104.89	111.14
1	M	827	SER	N-CA-C	-5.78	104.88	111.07
1	h	827	SER	N-CA-C	-5.78	104.88	111.07
1	S	714	SER	N-CA-C	-5.77	104.91	111.14
1	n	714	SER	N-CA-C	-5.77	104.91	111.14
1	A	827	SER	N-CA-C	-5.77	104.90	111.07
1	V	827	SER	N-CA-C	-5.77	104.90	111.07
1	J	827	SER	N-CA-C	-5.76	104.90	111.07
1	e	827	SER	N-CA-C	-5.76	104.90	111.07
1	S	827	SER	N-CA-C	-5.76	104.91	111.07
1	n	827	SER	N-CA-C	-5.76	104.91	111.07
1	D	827	SER	N-CA-C	-5.75	104.91	111.07
1	Y	827	SER	N-CA-C	-5.75	104.91	111.07
1	P	714	SER	N-CA-C	-5.75	104.94	111.14
1	k	714	SER	N-CA-C	-5.75	104.94	111.14
1	S	887	ILE	CB-CA-C	-5.74	102.14	110.63
1	n	887	ILE	CB-CA-C	-5.74	102.14	110.63
1	D	887	ILE	CB-CA-C	-5.73	102.15	110.63
1	P	736	ASN	O-C-N	5.73	126.22	121.35
1	Y	887	ILE	CB-CA-C	-5.73	102.15	110.63
1	k	736	ASN	O-C-N	5.73	126.22	121.35
1	P	887	ILE	CB-CA-C	-5.73	102.15	110.63
1	k	887	ILE	CB-CA-C	-5.73	102.15	110.63
1	G	887	ILE	CB-CA-C	-5.72	102.16	110.63
1	b	887	ILE	CB-CA-C	-5.72	102.16	110.63
1	A	887	ILE	CB-CA-C	-5.72	102.17	110.63
1	V	887	ILE	CB-CA-C	-5.72	102.17	110.63
1	J	887	ILE	CB-CA-C	-5.71	102.17	110.63
1	M	887	ILE	CB-CA-C	-5.71	102.17	110.63
1	e	887	ILE	CB-CA-C	-5.71	102.17	110.63
1	h	887	ILE	CB-CA-C	-5.71	102.17	110.63
1	D	736	ASN	O-C-N	5.71	126.20	121.35
1	Y	736	ASN	O-C-N	5.71	126.20	121.35
1	S	736	ASN	O-C-N	5.71	126.20	121.35
1	n	736	ASN	O-C-N	5.71	126.20	121.35
1	A	736	ASN	O-C-N	5.70	126.20	121.35
1	V	736	ASN	O-C-N	5.70	126.20	121.35
1	M	736	ASN	O-C-N	5.69	126.19	121.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	h	736	ASN	O-C-N	5.69	126.19	121.35
1	G	736	ASN	O-C-N	5.69	126.18	121.35
1	b	736	ASN	O-C-N	5.69	126.18	121.35
1	J	736	ASN	O-C-N	5.68	126.18	121.35
1	e	736	ASN	O-C-N	5.68	126.18	121.35
2	N	1028	ASP	N-CA-C	-5.67	105.00	111.07
2	i	1028	ASP	N-CA-C	-5.67	105.00	111.07
2	H	1028	ASP	N-CA-C	-5.66	105.02	111.07
2	c	1028	ASP	N-CA-C	-5.66	105.02	111.07
2	B	1028	ASP	N-CA-C	-5.65	105.02	111.07
2	E	1028	ASP	N-CA-C	-5.65	105.02	111.07
2	W	1028	ASP	N-CA-C	-5.65	105.02	111.07
2	Z	1028	ASP	N-CA-C	-5.65	105.02	111.07
2	E	1011	ASN	CA-CB-CG	-5.65	106.95	112.60
2	Z	1011	ASN	CA-CB-CG	-5.65	106.95	112.60
2	T	1028	ASP	N-CA-C	-5.64	105.03	111.07
2	o	1028	ASP	N-CA-C	-5.64	105.03	111.07
2	Q	1028	ASP	N-CA-C	-5.64	105.03	111.07
2	l	1028	ASP	N-CA-C	-5.64	105.03	111.07
2	K	1028	ASP	N-CA-C	-5.62	105.06	111.07
2	N	1011	ASN	CA-CB-CG	-5.62	106.98	112.60
2	f	1028	ASP	N-CA-C	-5.62	105.06	111.07
2	i	1011	ASN	CA-CB-CG	-5.62	106.98	112.60
1	A	757	THR	N-CA-C	-5.61	106.41	113.20
1	V	757	THR	N-CA-C	-5.61	106.41	113.20
2	K	1011	ASN	CA-CB-CG	-5.61	106.99	112.60
1	S	757	THR	N-CA-C	-5.61	106.41	113.20
2	f	1011	ASN	CA-CB-CG	-5.61	106.99	112.60
1	n	757	THR	N-CA-C	-5.61	106.41	113.20
1	P	757	THR	N-CA-C	-5.61	106.42	113.20
1	k	757	THR	N-CA-C	-5.61	106.42	113.20
1	M	757	THR	N-CA-C	-5.60	106.42	113.20
1	h	757	THR	N-CA-C	-5.60	106.42	113.20
1	J	757	THR	N-CA-C	-5.60	106.42	113.20
1	e	757	THR	N-CA-C	-5.60	106.42	113.20
2	B	1011	ASN	CA-CB-CG	-5.59	107.01	112.60
1	D	757	THR	N-CA-C	-5.59	106.43	113.20
2	W	1011	ASN	CA-CB-CG	-5.59	107.01	112.60
1	Y	757	THR	N-CA-C	-5.59	106.43	113.20
1	G	757	THR	N-CA-C	-5.59	106.43	113.20
2	Q	1011	ASN	CA-CB-CG	-5.59	107.01	112.60
1	b	757	THR	N-CA-C	-5.59	106.43	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	l	1011	ASN	CA-CB-CG	-5.59	107.01	112.60
2	H	1011	ASN	CA-CB-CG	-5.59	107.01	112.60
2	c	1011	ASN	CA-CB-CG	-5.59	107.01	112.60
2	N	1012	ASN	CA-CB-CG	-5.58	107.02	112.60
2	i	1012	ASN	CA-CB-CG	-5.58	107.02	112.60
2	E	1012	ASN	CA-CB-CG	-5.58	107.02	112.60
2	Z	1012	ASN	CA-CB-CG	-5.58	107.02	112.60
2	T	1012	ASN	CA-CB-CG	-5.58	107.03	112.60
2	o	1012	ASN	CA-CB-CG	-5.58	107.03	112.60
2	T	1011	ASN	CA-CB-CG	-5.57	107.03	112.60
2	o	1011	ASN	CA-CB-CG	-5.57	107.03	112.60
2	H	1012	ASN	CA-CB-CG	-5.57	107.03	112.60
2	c	1012	ASN	CA-CB-CG	-5.57	107.03	112.60
1	J	737	PRO	N-CA-C	-5.57	106.28	113.57
1	e	737	PRO	N-CA-C	-5.57	106.28	113.57
2	B	1012	ASN	CA-CB-CG	-5.56	107.04	112.60
2	W	1012	ASN	CA-CB-CG	-5.56	107.04	112.60
1	G	737	PRO	N-CA-C	-5.56	106.29	113.57
2	Q	1012	ASN	CA-CB-CG	-5.56	107.04	112.60
1	b	737	PRO	N-CA-C	-5.56	106.29	113.57
2	l	1012	ASN	CA-CB-CG	-5.56	107.04	112.60
2	K	1012	ASN	CA-CB-CG	-5.55	107.05	112.60
2	f	1012	ASN	CA-CB-CG	-5.55	107.05	112.60
1	D	737	PRO	N-CA-C	-5.55	106.30	113.57
1	Y	737	PRO	N-CA-C	-5.55	106.30	113.57
1	A	737	PRO	N-CA-C	-5.55	106.30	113.57
1	V	737	PRO	N-CA-C	-5.55	106.30	113.57
1	S	737	PRO	N-CA-C	-5.55	106.30	113.57
1	n	737	PRO	N-CA-C	-5.55	106.30	113.57
1	P	737	PRO	N-CA-C	-5.54	106.31	113.57
1	k	737	PRO	N-CA-C	-5.54	106.31	113.57
1	M	737	PRO	N-CA-C	-5.54	106.32	113.57
1	h	737	PRO	N-CA-C	-5.54	106.32	113.57
1	M	723	PRO	CB-CA-C	-5.52	102.45	111.56
1	h	723	PRO	CB-CA-C	-5.52	102.45	111.56
2	H	1023	GLY	N-CA-C	-5.52	107.05	115.00
2	c	1023	GLY	N-CA-C	-5.52	107.05	115.00
1	S	723	PRO	CB-CA-C	-5.51	102.47	111.56
1	n	723	PRO	CB-CA-C	-5.51	102.47	111.56
1	G	723	PRO	CB-CA-C	-5.50	102.48	111.56
1	b	723	PRO	CB-CA-C	-5.50	102.48	111.56
1	A	723	PRO	CB-CA-C	-5.50	102.49	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	723	PRO	CB-CA-C	-5.50	102.49	111.56
1	J	723	PRO	CB-CA-C	-5.50	102.49	111.56
1	e	723	PRO	CB-CA-C	-5.50	102.49	111.56
1	P	723	PRO	CB-CA-C	-5.50	102.49	111.56
1	k	723	PRO	CB-CA-C	-5.50	102.49	111.56
1	D	723	PRO	CB-CA-C	-5.49	102.50	111.56
1	Y	723	PRO	CB-CA-C	-5.49	102.50	111.56
1	S	858	LEU	N-CA-C	-5.49	105.69	112.38
1	n	858	LEU	N-CA-C	-5.49	105.69	112.38
1	P	858	LEU	N-CA-C	-5.48	105.69	112.38
1	k	858	LEU	N-CA-C	-5.48	105.69	112.38
1	G	858	LEU	N-CA-C	-5.47	105.71	112.38
1	J	858	LEU	N-CA-C	-5.47	105.71	112.38
1	b	858	LEU	N-CA-C	-5.47	105.71	112.38
1	e	858	LEU	N-CA-C	-5.47	105.71	112.38
1	M	858	LEU	N-CA-C	-5.47	105.71	112.38
1	h	858	LEU	N-CA-C	-5.47	105.71	112.38
1	A	858	LEU	N-CA-C	-5.46	105.71	112.38
1	D	858	LEU	N-CA-C	-5.46	105.71	112.38
1	V	858	LEU	N-CA-C	-5.46	105.71	112.38
1	Y	858	LEU	N-CA-C	-5.46	105.71	112.38
2	Q	1023	GLY	N-CA-C	-5.46	107.00	114.64
2	l	1023	GLY	N-CA-C	-5.46	107.00	114.64
2	K	1023	GLY	N-CA-C	-5.46	107.00	114.64
2	f	1023	GLY	N-CA-C	-5.46	107.00	114.64
2	N	1023	GLY	N-CA-C	-5.45	107.01	114.64
2	i	1023	GLY	N-CA-C	-5.45	107.01	114.64
2	B	1023	GLY	N-CA-C	-5.44	107.03	114.64
2	W	1023	GLY	N-CA-C	-5.44	107.03	114.64
2	E	1023	GLY	N-CA-C	-5.43	107.03	114.64
2	Z	1023	GLY	N-CA-C	-5.43	107.03	114.64
2	T	1023	GLY	N-CA-C	-5.42	107.05	114.64
2	o	1023	GLY	N-CA-C	-5.42	107.05	114.64
1	J	756	ASP	CB-CA-C	-5.41	104.72	111.43
1	e	756	ASP	CB-CA-C	-5.41	104.72	111.43
2	H	950	PHE	CA-CB-CG	-5.40	108.40	113.80
2	c	950	PHE	CA-CB-CG	-5.40	108.40	113.80
2	K	950	PHE	CA-CB-CG	-5.39	108.41	113.80
2	f	950	PHE	CA-CB-CG	-5.39	108.41	113.80
2	Q	1032	VAL	CA-C-N	5.39	131.83	121.54
2	Q	1032	VAL	C-N-CA	5.39	131.83	121.54
2	l	1032	VAL	CA-C-N	5.39	131.83	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	l	1032	VAL	C-N-CA	5.39	131.83	121.54
1	A	756	ASP	CB-CA-C	-5.38	104.75	111.43
1	P	756	ASP	CB-CA-C	-5.38	104.75	111.43
1	V	756	ASP	CB-CA-C	-5.38	104.75	111.43
1	k	756	ASP	CB-CA-C	-5.38	104.75	111.43
2	B	950	PHE	CA-CB-CG	-5.38	108.42	113.80
2	H	1032	VAL	CA-C-N	5.38	131.81	121.54
2	H	1032	VAL	C-N-CA	5.38	131.81	121.54
2	W	950	PHE	CA-CB-CG	-5.38	108.42	113.80
2	c	1032	VAL	CA-C-N	5.38	131.81	121.54
2	c	1032	VAL	C-N-CA	5.38	131.81	121.54
2	N	950	PHE	CA-CB-CG	-5.37	108.43	113.80
2	Q	950	PHE	CA-CB-CG	-5.37	108.43	113.80
2	i	950	PHE	CA-CB-CG	-5.37	108.43	113.80
2	l	950	PHE	CA-CB-CG	-5.37	108.43	113.80
2	E	1032	VAL	CA-C-N	5.37	131.80	121.54
2	E	1032	VAL	C-N-CA	5.37	131.80	121.54
2	Z	1032	VAL	CA-C-N	5.37	131.80	121.54
2	Z	1032	VAL	C-N-CA	5.37	131.80	121.54
1	S	756	ASP	CB-CA-C	-5.37	104.77	111.43
1	n	756	ASP	CB-CA-C	-5.37	104.77	111.43
2	B	1032	VAL	CA-C-N	5.37	131.79	121.54
2	B	1032	VAL	C-N-CA	5.37	131.79	121.54
2	N	1032	VAL	CA-C-N	5.37	131.79	121.54
2	N	1032	VAL	C-N-CA	5.37	131.79	121.54
2	W	1032	VAL	CA-C-N	5.37	131.79	121.54
2	W	1032	VAL	C-N-CA	5.37	131.79	121.54
2	i	1032	VAL	CA-C-N	5.37	131.79	121.54
2	i	1032	VAL	C-N-CA	5.37	131.79	121.54
3	O	1049	ASN	CA-CB-CG	-5.37	107.23	112.60
3	j	1049	ASN	CA-CB-CG	-5.37	107.23	112.60
2	K	1032	VAL	CA-C-N	5.36	131.78	121.54
2	K	1032	VAL	C-N-CA	5.36	131.78	121.54
2	T	950	PHE	CA-CB-CG	-5.36	108.44	113.80
2	T	1032	VAL	CA-C-N	5.36	131.78	121.54
2	T	1032	VAL	C-N-CA	5.36	131.78	121.54
2	f	1032	VAL	CA-C-N	5.36	131.78	121.54
2	f	1032	VAL	C-N-CA	5.36	131.78	121.54
2	o	950	PHE	CA-CB-CG	-5.36	108.44	113.80
2	o	1032	VAL	CA-C-N	5.36	131.78	121.54
2	o	1032	VAL	C-N-CA	5.36	131.78	121.54
2	E	950	PHE	CA-CB-CG	-5.36	108.44	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	Z	950	PHE	CA-CB-CG	-5.36	108.44	113.80
3	C	1049	ASN	CA-CB-CG	-5.36	107.24	112.60
1	D	756	ASP	CB-CA-C	-5.36	104.78	111.43
3	F	1049	ASN	CA-CB-CG	-5.36	107.24	112.60
1	G	756	ASP	CB-CA-C	-5.36	104.78	111.43
3	I	1049	ASN	CA-CB-CG	-5.36	107.24	112.60
3	X	1049	ASN	CA-CB-CG	-5.36	107.24	112.60
1	Y	756	ASP	CB-CA-C	-5.36	104.78	111.43
3	a	1049	ASN	CA-CB-CG	-5.36	107.24	112.60
1	b	756	ASP	CB-CA-C	-5.36	104.78	111.43
3	d	1049	ASN	CA-CB-CG	-5.36	107.24	112.60
1	M	756	ASP	CB-CA-C	-5.36	104.78	111.43
1	h	756	ASP	CB-CA-C	-5.36	104.78	111.43
3	R	1049	ASN	CA-CB-CG	-5.36	107.24	112.60
3	m	1049	ASN	CA-CB-CG	-5.36	107.24	112.60
3	U	1049	ASN	CA-CB-CG	-5.35	107.25	112.60
3	p	1049	ASN	CA-CB-CG	-5.35	107.25	112.60
2	Q	1013	PHE	CB-CA-C	-5.34	104.43	111.42
2	l	1013	PHE	CB-CA-C	-5.34	104.43	111.42
2	B	1013	PHE	CB-CA-C	-5.34	104.43	111.42
2	H	1013	PHE	CB-CA-C	-5.34	104.43	111.42
2	W	1013	PHE	CB-CA-C	-5.34	104.43	111.42
2	c	1013	PHE	CB-CA-C	-5.34	104.43	111.42
2	T	1013	PHE	CB-CA-C	-5.33	104.43	111.42
2	o	1013	PHE	CB-CA-C	-5.33	104.43	111.42
2	E	1013	PHE	CB-CA-C	-5.33	104.43	111.42
2	N	1013	PHE	CB-CA-C	-5.33	104.43	111.42
2	Z	1013	PHE	CB-CA-C	-5.33	104.43	111.42
2	i	1013	PHE	CB-CA-C	-5.33	104.43	111.42
3	L	1049	ASN	CA-CB-CG	-5.33	107.27	112.60
3	g	1049	ASN	CA-CB-CG	-5.33	107.27	112.60
2	K	1013	PHE	CB-CA-C	-5.32	104.46	111.42
2	f	1013	PHE	CB-CA-C	-5.32	104.46	111.42
1	P	901	LEU	N-CA-CB	5.31	118.49	110.42
1	k	901	LEU	N-CA-CB	5.31	118.49	110.42
1	M	901	LEU	N-CA-CB	5.31	118.49	110.42
1	h	901	LEU	N-CA-CB	5.31	118.49	110.42
1	A	901	LEU	N-CA-CB	5.30	118.48	110.42
1	V	901	LEU	N-CA-CB	5.30	118.48	110.42
2	N	984	ASN	CA-CB-CG	-5.30	107.30	112.60
2	i	984	ASN	CA-CB-CG	-5.30	107.30	112.60
1	J	901	LEU	N-CA-CB	5.29	118.47	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	901	LEU	N-CA-CB	5.29	118.47	110.42
1	D	901	LEU	N-CA-CB	5.29	118.45	110.42
2	Q	984	ASN	CA-CB-CG	-5.29	107.31	112.60
1	Y	901	LEU	N-CA-CB	5.29	118.45	110.42
2	l	984	ASN	CA-CB-CG	-5.29	107.31	112.60
1	G	901	LEU	N-CA-CB	5.28	118.45	110.42
1	b	901	LEU	N-CA-CB	5.28	118.45	110.42
1	S	901	LEU	N-CA-CB	5.28	118.44	110.42
1	n	901	LEU	N-CA-CB	5.28	118.44	110.42
2	K	984	ASN	CA-CB-CG	-5.26	107.33	112.60
2	f	984	ASN	CA-CB-CG	-5.26	107.33	112.60
2	B	984	ASN	CA-CB-CG	-5.26	107.34	112.60
2	W	984	ASN	CA-CB-CG	-5.26	107.34	112.60
2	H	965	TYR	CA-CB-CG	-5.25	104.44	113.90
2	c	965	TYR	CA-CB-CG	-5.25	104.44	113.90
2	T	984	ASN	CA-CB-CG	-5.25	107.35	112.60
2	o	984	ASN	CA-CB-CG	-5.25	107.35	112.60
2	E	984	ASN	CA-CB-CG	-5.25	107.35	112.60
2	Z	984	ASN	CA-CB-CG	-5.25	107.35	112.60
2	B	965	TYR	CA-CB-CG	-5.24	104.47	113.90
2	N	965	TYR	CA-CB-CG	-5.24	104.47	113.90
2	W	965	TYR	CA-CB-CG	-5.24	104.47	113.90
2	i	965	TYR	CA-CB-CG	-5.24	104.47	113.90
2	Q	965	TYR	CA-CB-CG	-5.24	104.47	113.90
2	l	965	TYR	CA-CB-CG	-5.24	104.47	113.90
2	T	965	TYR	CA-CB-CG	-5.24	104.47	113.90
2	o	965	TYR	CA-CB-CG	-5.24	104.47	113.90
2	H	984	ASN	CA-CB-CG	-5.24	107.36	112.60
2	c	984	ASN	CA-CB-CG	-5.24	107.36	112.60
2	E	965	TYR	CA-CB-CG	-5.23	104.48	113.90
2	K	965	TYR	CA-CB-CG	-5.23	104.48	113.90
2	Z	965	TYR	CA-CB-CG	-5.23	104.48	113.90
2	f	965	TYR	CA-CB-CG	-5.23	104.48	113.90
1	D	741	VAL	CB-CA-C	-5.20	104.90	111.04
1	Y	741	VAL	CB-CA-C	-5.20	104.90	111.04
1	G	741	VAL	CB-CA-C	-5.19	104.92	111.04
1	b	741	VAL	CB-CA-C	-5.19	104.92	111.04
1	S	741	VAL	CB-CA-C	-5.18	104.92	111.04
1	n	741	VAL	CB-CA-C	-5.18	104.92	111.04
2	Q	1034	ILE	CB-CA-C	-5.18	101.24	111.60
2	l	1034	ILE	CB-CA-C	-5.18	101.24	111.60
1	A	741	VAL	CB-CA-C	-5.17	104.93	111.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	V	741	VAL	CB-CA-C	-5.17	104.93	111.04
2	H	1034	ILE	CB-CA-C	-5.17	101.26	111.60
2	c	1034	ILE	CB-CA-C	-5.17	101.26	111.60
1	P	741	VAL	CB-CA-C	-5.17	104.94	111.04
1	k	741	VAL	CB-CA-C	-5.17	104.94	111.04
1	M	741	VAL	CB-CA-C	-5.17	104.95	111.04
1	h	741	VAL	CB-CA-C	-5.17	104.95	111.04
2	E	1034	ILE	CB-CA-C	-5.16	101.27	111.60
2	Z	1034	ILE	CB-CA-C	-5.16	101.27	111.60
2	B	1034	ILE	CB-CA-C	-5.16	101.28	111.60
2	W	1034	ILE	CB-CA-C	-5.16	101.28	111.60
1	J	741	VAL	CB-CA-C	-5.16	104.95	111.04
1	e	741	VAL	CB-CA-C	-5.16	104.95	111.04
2	N	1034	ILE	CB-CA-C	-5.15	101.30	111.60
2	T	1034	ILE	CB-CA-C	-5.15	101.30	111.60
2	i	1034	ILE	CB-CA-C	-5.15	101.30	111.60
2	o	1034	ILE	CB-CA-C	-5.15	101.30	111.60
2	K	1028	ASP	CA-CB-CG	-5.15	107.45	112.60
2	f	1028	ASP	CA-CB-CG	-5.15	107.45	112.60
2	K	1034	ILE	CB-CA-C	-5.14	101.31	111.60
2	f	1034	ILE	CB-CA-C	-5.14	101.31	111.60
1	S	725	ARG	N-CA-CB	5.14	118.75	111.25
1	n	725	ARG	N-CA-CB	5.14	118.75	111.25
1	D	725	ARG	N-CA-CB	5.13	118.74	111.25
2	T	1028	ASP	CA-CB-CG	-5.13	107.47	112.60
1	Y	725	ARG	N-CA-CB	5.13	118.74	111.25
2	o	1028	ASP	CA-CB-CG	-5.13	107.47	112.60
2	Q	1028	ASP	CA-CB-CG	-5.13	107.47	112.60
2	l	1028	ASP	CA-CB-CG	-5.13	107.47	112.60
2	N	1028	ASP	CA-CB-CG	-5.12	107.48	112.60
2	i	1028	ASP	CA-CB-CG	-5.12	107.48	112.60
2	B	1028	ASP	CA-CB-CG	-5.12	107.48	112.60
2	W	1028	ASP	CA-CB-CG	-5.12	107.48	112.60
2	K	1010	ASN	CA-CB-CG	-5.12	107.48	112.60
2	f	1010	ASN	CA-CB-CG	-5.12	107.48	112.60
2	T	1010	ASN	CA-CB-CG	-5.12	107.48	112.60
2	o	1010	ASN	CA-CB-CG	-5.12	107.48	112.60
1	A	725	ARG	N-CA-CB	5.12	118.72	111.25
1	M	725	ARG	N-CA-CB	5.12	118.72	111.25
1	P	725	ARG	N-CA-CB	5.12	118.72	111.25
1	V	725	ARG	N-CA-CB	5.12	118.72	111.25
1	h	725	ARG	N-CA-CB	5.12	118.72	111.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	k	725	ARG	N-CA-CB	5.12	118.72	111.25
2	E	1028	ASP	CA-CB-CG	-5.11	107.49	112.60
2	Z	1028	ASP	CA-CB-CG	-5.11	107.49	112.60
1	J	725	ARG	N-CA-CB	5.11	118.70	111.25
1	e	725	ARG	N-CA-CB	5.11	118.70	111.25
1	G	725	ARG	N-CA-CB	5.10	118.70	111.25
2	Q	1010	ASN	CA-CB-CG	-5.10	107.50	112.60
1	b	725	ARG	N-CA-CB	5.10	118.70	111.25
2	l	1010	ASN	CA-CB-CG	-5.10	107.50	112.60
2	H	1028	ASP	CA-CB-CG	-5.10	107.50	112.60
2	c	1028	ASP	CA-CB-CG	-5.10	107.50	112.60
1	D	874	PRO	CA-C-N	5.09	126.21	119.84
1	D	874	PRO	C-N-CA	5.09	126.21	119.84
1	Y	874	PRO	CA-C-N	5.09	126.21	119.84
1	Y	874	PRO	C-N-CA	5.09	126.21	119.84
2	E	1010	ASN	CA-CB-CG	-5.09	107.51	112.60
2	Z	1010	ASN	CA-CB-CG	-5.09	107.51	112.60
2	B	1010	ASN	CA-CB-CG	-5.09	107.51	112.60
2	W	1010	ASN	CA-CB-CG	-5.09	107.51	112.60
1	M	874	PRO	CA-C-N	5.08	126.20	119.84
1	M	874	PRO	C-N-CA	5.08	126.20	119.84
1	h	874	PRO	CA-C-N	5.08	126.20	119.84
1	h	874	PRO	C-N-CA	5.08	126.20	119.84
1	S	874	PRO	CA-C-N	5.08	126.19	119.84
1	S	874	PRO	C-N-CA	5.08	126.19	119.84
1	n	874	PRO	CA-C-N	5.08	126.19	119.84
1	n	874	PRO	C-N-CA	5.08	126.19	119.84
1	A	874	PRO	CA-C-N	5.07	126.18	119.84
1	A	874	PRO	C-N-CA	5.07	126.18	119.84
1	J	874	PRO	CA-C-N	5.07	126.18	119.84
1	J	874	PRO	C-N-CA	5.07	126.18	119.84
1	V	874	PRO	CA-C-N	5.07	126.18	119.84
1	V	874	PRO	C-N-CA	5.07	126.18	119.84
1	e	874	PRO	CA-C-N	5.07	126.18	119.84
1	e	874	PRO	C-N-CA	5.07	126.18	119.84
2	Q	979	HIS	CA-C-N	-5.06	115.16	122.45
2	Q	979	HIS	C-N-CA	-5.06	115.16	122.45
2	l	979	HIS	CA-C-N	-5.06	115.16	122.45
2	l	979	HIS	C-N-CA	-5.06	115.16	122.45
2	H	1010	ASN	CA-CB-CG	-5.06	107.54	112.60
2	c	1010	ASN	CA-CB-CG	-5.06	107.54	112.60
1	P	874	PRO	CA-C-N	5.06	126.16	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	P	874	PRO	C-N-CA	5.06	126.16	119.84
1	k	874	PRO	CA-C-N	5.06	126.16	119.84
1	k	874	PRO	C-N-CA	5.06	126.16	119.84
1	G	874	PRO	CA-C-N	5.05	126.16	119.84
1	G	874	PRO	C-N-CA	5.05	126.16	119.84
1	b	874	PRO	CA-C-N	5.05	126.16	119.84
1	b	874	PRO	C-N-CA	5.05	126.16	119.84
1	M	896	SER	CB-CA-C	-5.05	103.23	111.06
1	h	896	SER	CB-CA-C	-5.05	103.23	111.06
1	D	900	THR	CA-C-N	-5.04	111.90	122.03
1	D	900	THR	C-N-CA	-5.04	111.90	122.03
1	G	900	THR	CA-C-N	-5.04	111.90	122.03
1	G	900	THR	C-N-CA	-5.04	111.90	122.03
2	N	979	HIS	CA-C-N	-5.04	115.19	122.45
2	N	979	HIS	C-N-CA	-5.04	115.19	122.45
2	N	1010	ASN	CA-CB-CG	-5.04	107.56	112.60
1	S	900	THR	CA-C-N	-5.04	111.90	122.03
1	S	900	THR	C-N-CA	-5.04	111.90	122.03
1	Y	900	THR	CA-C-N	-5.04	111.90	122.03
1	Y	900	THR	C-N-CA	-5.04	111.90	122.03
1	b	900	THR	CA-C-N	-5.04	111.90	122.03
1	b	900	THR	C-N-CA	-5.04	111.90	122.03
2	i	979	HIS	CA-C-N	-5.04	115.19	122.45
2	i	979	HIS	C-N-CA	-5.04	115.19	122.45
2	i	1010	ASN	CA-CB-CG	-5.04	107.56	112.60
1	n	900	THR	CA-C-N	-5.04	111.90	122.03
1	n	900	THR	C-N-CA	-5.04	111.90	122.03
1	G	896	SER	CB-CA-C	-5.04	103.25	111.06
2	T	979	HIS	CA-C-N	-5.04	115.19	122.45
2	T	979	HIS	C-N-CA	-5.04	115.19	122.45
1	b	896	SER	CB-CA-C	-5.04	103.25	111.06
2	o	979	HIS	CA-C-N	-5.04	115.19	122.45
2	o	979	HIS	C-N-CA	-5.04	115.19	122.45
1	A	900	THR	CA-C-N	-5.04	111.90	122.03
1	A	900	THR	C-N-CA	-5.04	111.90	122.03
1	V	900	THR	CA-C-N	-5.04	111.90	122.03
1	V	900	THR	C-N-CA	-5.04	111.90	122.03
1	A	896	SER	CB-CA-C	-5.04	103.25	111.06
2	B	979	HIS	CA-C-N	-5.04	115.20	122.45
2	B	979	HIS	C-N-CA	-5.04	115.20	122.45
1	V	896	SER	CB-CA-C	-5.04	103.25	111.06
2	W	979	HIS	CA-C-N	-5.04	115.20	122.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	W	979	HIS	C-N-CA	-5.04	115.20	122.45
1	J	900	THR	CA-C-N	-5.04	111.91	122.03
1	J	900	THR	C-N-CA	-5.04	111.91	122.03
1	M	900	THR	CA-C-N	-5.04	111.91	122.03
1	M	900	THR	C-N-CA	-5.04	111.91	122.03
1	P	896	SER	CB-CA-C	-5.04	103.26	111.06
1	e	900	THR	CA-C-N	-5.04	111.91	122.03
1	e	900	THR	C-N-CA	-5.04	111.91	122.03
1	h	900	THR	CA-C-N	-5.04	111.91	122.03
1	h	900	THR	C-N-CA	-5.04	111.91	122.03
1	k	896	SER	CB-CA-C	-5.04	103.26	111.06
1	J	896	SER	CB-CA-C	-5.03	103.26	111.06
1	P	900	THR	CA-C-N	-5.03	111.91	122.03
1	P	900	THR	C-N-CA	-5.03	111.91	122.03
1	e	896	SER	CB-CA-C	-5.03	103.26	111.06
1	k	900	THR	CA-C-N	-5.03	111.91	122.03
1	k	900	THR	C-N-CA	-5.03	111.91	122.03
2	K	925	ASN	N-CA-C	-5.03	101.04	109.24
2	f	925	ASN	N-CA-C	-5.03	101.04	109.24
1	D	896	SER	CB-CA-C	-5.03	103.27	111.06
2	H	979	HIS	CA-C-N	-5.03	115.21	122.45
2	H	979	HIS	C-N-CA	-5.03	115.21	122.45
1	J	797	ASP	CA-CB-CG	-5.03	107.57	112.60
1	Y	896	SER	CB-CA-C	-5.03	103.27	111.06
2	c	979	HIS	CA-C-N	-5.03	115.21	122.45
2	c	979	HIS	C-N-CA	-5.03	115.21	122.45
1	e	797	ASP	CA-CB-CG	-5.03	107.57	112.60
1	A	797	ASP	CA-CB-CG	-5.03	107.57	112.60
2	Q	917	GLN	CA-C-N	-5.03	115.86	122.85
2	Q	917	GLN	C-N-CA	-5.03	115.86	122.85
2	Q	925	ASN	N-CA-C	-5.03	101.05	109.24
1	V	797	ASP	CA-CB-CG	-5.03	107.57	112.60
2	l	917	GLN	CA-C-N	-5.03	115.86	122.85
2	l	917	GLN	C-N-CA	-5.03	115.86	122.85
2	l	925	ASN	N-CA-C	-5.03	101.05	109.24
2	H	925	ASN	N-CA-C	-5.02	101.06	109.24
1	P	797	ASP	CA-CB-CG	-5.02	107.58	112.60
2	c	925	ASN	N-CA-C	-5.02	101.06	109.24
1	k	797	ASP	CA-CB-CG	-5.02	107.58	112.60
1	S	896	SER	CB-CA-C	-5.02	103.28	111.06
2	T	917	GLN	CA-C-N	-5.02	115.87	122.85
2	T	917	GLN	C-N-CA	-5.02	115.87	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	n	896	SER	CB-CA-C	-5.02	103.28	111.06
2	o	917	GLN	CA-C-N	-5.02	115.87	122.85
2	o	917	GLN	C-N-CA	-5.02	115.87	122.85
2	H	917	GLN	CA-C-N	-5.02	115.88	122.85
2	H	917	GLN	C-N-CA	-5.02	115.88	122.85
2	c	917	GLN	CA-C-N	-5.02	115.88	122.85
2	c	917	GLN	C-N-CA	-5.02	115.88	122.85
2	E	979	HIS	CA-C-N	-5.02	115.23	122.45
2	E	979	HIS	C-N-CA	-5.02	115.23	122.45
2	Z	979	HIS	CA-C-N	-5.02	115.23	122.45
2	Z	979	HIS	C-N-CA	-5.02	115.23	122.45
2	B	917	GLN	CA-C-N	-5.01	115.88	122.85
2	B	917	GLN	C-N-CA	-5.01	115.88	122.85
2	B	925	ASN	N-CA-C	-5.01	101.07	109.24
1	D	797	ASP	CA-CB-CG	-5.01	107.58	112.60
2	W	917	GLN	CA-C-N	-5.01	115.88	122.85
2	W	917	GLN	C-N-CA	-5.01	115.88	122.85
2	W	925	ASN	N-CA-C	-5.01	101.07	109.24
1	Y	797	ASP	CA-CB-CG	-5.01	107.58	112.60
1	M	797	ASP	CA-CB-CG	-5.01	107.59	112.60
1	h	797	ASP	CA-CB-CG	-5.01	107.59	112.60
2	E	925	ASN	N-CA-C	-5.01	101.07	109.24
2	K	979	HIS	CA-C-N	-5.01	115.23	122.45
2	K	979	HIS	C-N-CA	-5.01	115.23	122.45
2	Z	925	ASN	N-CA-C	-5.01	101.07	109.24
2	f	979	HIS	CA-C-N	-5.01	115.23	122.45
2	f	979	HIS	C-N-CA	-5.01	115.23	122.45
2	K	917	GLN	CA-C-N	-5.01	115.89	122.85
2	K	917	GLN	C-N-CA	-5.01	115.89	122.85
2	N	925	ASN	N-CA-C	-5.01	101.08	109.24
2	f	917	GLN	CA-C-N	-5.01	115.89	122.85
2	f	917	GLN	C-N-CA	-5.01	115.89	122.85
2	i	925	ASN	N-CA-C	-5.01	101.08	109.24
1	S	797	ASP	CA-CB-CG	-5.00	107.59	112.60
1	n	797	ASP	CA-CB-CG	-5.00	107.59	112.60
2	E	917	GLN	CA-C-N	-5.00	115.89	122.85
2	E	917	GLN	C-N-CA	-5.00	115.89	122.85
1	G	797	ASP	CA-CB-CG	-5.00	107.60	112.60
2	N	917	GLN	CA-C-N	-5.00	115.90	122.85
2	N	917	GLN	C-N-CA	-5.00	115.90	122.85
2	Z	917	GLN	CA-C-N	-5.00	115.89	122.85
2	Z	917	GLN	C-N-CA	-5.00	115.89	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	b	797	ASP	CA-CB-CG	-5.00	107.60	112.60
2	i	917	GLN	CA-C-N	-5.00	115.90	122.85
2	i	917	GLN	C-N-CA	-5.00	115.90	122.85

There are no chirality outliers.

All (84) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	725	ARG	Peptide
1	A	757	THR	Peptide
1	A	761	GLY	Peptide
1	A	901	LEU	Peptide
1	A	903	ASP	Peptide
2	B	1031	ARG	Sidechain
1	D	725	ARG	Peptide
1	D	757	THR	Peptide
1	D	761	GLY	Peptide
1	D	901	LEU	Peptide
1	D	903	ASP	Peptide
2	E	1031	ARG	Sidechain
1	G	725	ARG	Peptide
1	G	757	THR	Peptide
1	G	761	GLY	Peptide
1	G	901	LEU	Peptide
1	G	903	ASP	Peptide
2	H	1031	ARG	Sidechain
1	J	725	ARG	Peptide
1	J	757	THR	Peptide
1	J	761	GLY	Peptide
1	J	901	LEU	Peptide
1	J	903	ASP	Peptide
2	K	1031	ARG	Sidechain
1	M	725	ARG	Peptide
1	M	757	THR	Peptide
1	M	761	GLY	Peptide
1	M	901	LEU	Peptide
1	M	903	ASP	Peptide
2	N	1031	ARG	Sidechain
1	P	725	ARG	Peptide
1	P	757	THR	Peptide
1	P	761	GLY	Peptide
1	P	901	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	P	903	ASP	Peptide
2	Q	1031	ARG	Sidechain
1	S	725	ARG	Peptide
1	S	757	THR	Peptide
1	S	761	GLY	Peptide
1	S	901	LEU	Peptide
1	S	903	ASP	Peptide
2	T	1031	ARG	Sidechain
1	V	725	ARG	Peptide
1	V	757	THR	Peptide
1	V	761	GLY	Peptide
1	V	901	LEU	Peptide
1	V	903	ASP	Peptide
2	W	1031	ARG	Sidechain
1	Y	725	ARG	Peptide
1	Y	757	THR	Peptide
1	Y	761	GLY	Peptide
1	Y	901	LEU	Peptide
1	Y	903	ASP	Peptide
2	Z	1031	ARG	Sidechain
1	b	725	ARG	Peptide
1	b	757	THR	Peptide
1	b	761	GLY	Peptide
1	b	901	LEU	Peptide
1	b	903	ASP	Peptide
2	c	1031	ARG	Sidechain
1	e	725	ARG	Peptide
1	e	757	THR	Peptide
1	e	761	GLY	Peptide
1	e	901	LEU	Peptide
1	e	903	ASP	Peptide
2	f	1031	ARG	Sidechain
1	h	725	ARG	Peptide
1	h	757	THR	Peptide
1	h	761	GLY	Peptide
1	h	901	LEU	Peptide
1	h	903	ASP	Peptide
2	i	1031	ARG	Sidechain
1	k	725	ARG	Peptide
1	k	757	THR	Peptide
1	k	761	GLY	Peptide
1	k	901	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	k	903	ASP	Peptide
2	l	1031	ARG	Sidechain
1	n	725	ARG	Peptide
1	n	757	THR	Peptide
1	n	761	GLY	Peptide
1	n	901	LEU	Peptide
1	n	903	ASP	Peptide
2	o	1031	ARG	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1459	0	1440	613	0
1	D	1459	0	1440	606	0
1	G	1459	0	1440	608	0
1	J	1459	0	1440	606	0
1	M	1459	0	1440	607	0
1	P	1459	0	1440	611	0
1	S	1459	0	1440	608	0
1	V	1459	0	1440	604	0
1	Y	1459	0	1440	612	0
1	b	1459	0	1440	608	0
1	e	1459	0	1440	615	0
1	h	1459	0	1440	610	0
1	k	1459	0	1440	611	0
1	n	1459	0	1440	605	0
2	B	1034	0	1032	222	0
2	E	1034	0	1032	222	0
2	H	1034	0	1032	216	0
2	K	1034	0	1032	218	0
2	N	1034	0	1032	217	0
2	Q	1034	0	1032	217	0
2	T	1034	0	1032	218	0
2	W	1034	0	1032	221	0
2	Z	1034	0	1032	228	0
2	c	1034	0	1032	223	0
2	f	1034	0	1032	224	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	i	1034	0	1032	221	0
2	l	1034	0	1032	227	0
2	o	1034	0	1032	223	0
3	C	213	0	200	38	0
3	F	213	0	200	39	0
3	I	213	0	200	40	0
3	L	213	0	200	38	0
3	O	213	0	200	36	0
3	R	213	0	200	39	0
3	U	213	0	200	41	0
3	X	213	0	200	40	0
3	a	213	0	200	38	0
3	d	213	0	200	37	0
3	g	213	0	200	37	0
3	j	213	0	200	36	0
3	m	213	0	200	40	0
3	p	213	0	200	39	0
All	All	37884	0	37408	9029	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 120.

All (9029) 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:P:725:ARG:CZ	1:V:808:ARG:HG3	1.33	1.48
1:Y:725:ARG:NH1	1:e:808:ARG:CG	1.77	1.47
1:e:725:ARG:NH1	1:k:808:ARG:CG	1.77	1.47
1:S:725:ARG:CZ	1:Y:808:ARG:HG3	1.33	1.46
1:S:725:ARG:NH1	1:Y:808:ARG:CG	1.77	1.46
1:A:808:ARG:CG	1:k:725:ARG:NH1	1.77	1.46
1:V:725:ARG:NH1	1:b:808:ARG:CG	1.77	1.46
1:D:721:LEU:HD23	1:J:805:LEU:CB	1.47	1.45
1:J:721:LEU:CD2	1:P:805:LEU:HA	0.98	1.45
1:b:725:ARG:NH1	1:h:808:ARG:CG	1.77	1.45
1:A:721:LEU:HD23	1:G:805:LEU:CB	1.47	1.45
1:G:721:LEU:HD23	1:M:805:LEU:CB	1.47	1.45
1:P:725:ARG:NH1	1:V:808:ARG:CG	1.77	1.45
1:V:725:ARG:CZ	1:b:808:ARG:HG3	1.33	1.45
1:G:721:LEU:CD2	1:M:805:LEU:HA	0.98	1.45
1:G:725:ARG:NH1	1:M:808:ARG:CG	1.77	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:805:LEU:CB	1:n:721:LEU:HD23	1.47	1.45
1:J:721:LEU:HD23	1:P:805:LEU:CB	1.47	1.45
1:S:721:LEU:CD2	1:Y:805:LEU:HA	0.98	1.45
1:A:725:ARG:NH1	1:G:808:ARG:CG	1.77	1.44
1:A:805:LEU:CB	1:k:721:LEU:HD23	1.47	1.44
1:M:721:LEU:CD2	1:S:805:LEU:HA	0.98	1.44
1:V:721:LEU:CD2	1:b:805:LEU:HA	0.98	1.44
1:h:721:LEU:CD2	1:n:805:LEU:HA	0.98	1.44
1:M:721:LEU:HD23	1:S:805:LEU:CB	1.47	1.44
1:Y:725:ARG:CZ	1:e:808:ARG:HG3	1.33	1.44
1:P:721:LEU:CD2	1:V:805:LEU:HA	0.98	1.44
1:e:721:LEU:CD2	1:k:805:LEU:HA	0.98	1.44
1:J:725:ARG:NH1	1:P:808:ARG:CG	1.77	1.43
1:h:721:LEU:HD23	1:n:805:LEU:CB	1.47	1.43
1:h:725:ARG:NH1	1:n:808:ARG:CG	1.77	1.43
1:D:725:ARG:NH1	1:J:808:ARG:CG	1.77	1.43
1:D:805:LEU:HA	1:n:721:LEU:CD2	0.98	1.43
1:b:725:ARG:CZ	1:h:808:ARG:HG3	1.33	1.43
1:D:721:LEU:CD2	1:J:805:LEU:HA	0.98	1.43
1:P:721:LEU:HD23	1:V:805:LEU:CB	1.47	1.43
1:Y:721:LEU:CD2	1:e:805:LEU:HA	0.98	1.43
1:M:725:ARG:NH1	1:S:808:ARG:CG	1.77	1.43
1:A:721:LEU:CD2	1:G:805:LEU:HA	0.98	1.42
1:A:805:LEU:HA	1:k:721:LEU:CD2	0.98	1.42
1:D:808:ARG:CG	1:n:725:ARG:NH1	1.77	1.42
1:e:721:LEU:HD23	1:k:805:LEU:CB	1.47	1.42
1:b:721:LEU:CD2	1:h:805:LEU:HA	0.98	1.42
1:S:721:LEU:HD23	1:Y:805:LEU:CB	1.47	1.42
1:e:725:ARG:CZ	1:k:808:ARG:HG3	1.33	1.42
1:V:721:LEU:HD23	1:b:805:LEU:CB	1.47	1.41
1:b:721:LEU:HD23	1:h:805:LEU:CB	1.47	1.41
1:Y:721:LEU:HD23	1:e:805:LEU:CB	1.47	1.40
1:h:725:ARG:CZ	1:n:808:ARG:HG3	1.33	1.40
1:S:721:LEU:HD23	1:Y:805:LEU:CA	0.91	1.39
1:P:721:LEU:HD23	1:V:805:LEU:CA	0.91	1.39
1:V:721:LEU:HD23	1:b:805:LEU:CA	0.91	1.39
1:Y:721:LEU:HD23	1:e:805:LEU:CA	0.91	1.39
1:A:725:ARG:CZ	1:G:808:ARG:CG	1.96	1.39
1:D:721:LEU:HD23	1:J:805:LEU:CA	0.91	1.39
1:G:721:LEU:HD23	1:M:805:LEU:CA	0.91	1.39
1:J:721:LEU:HD23	1:P:805:LEU:CA	0.91	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:721:LEU:HD23	1:S:805:LEU:CA	0.91	1.39
1:b:721:LEU:HD23	1:h:805:LEU:CA	0.91	1.39
1:A:721:LEU:HD23	1:G:805:LEU:CA	0.91	1.39
1:D:725:ARG:CZ	1:J:808:ARG:CG	1.96	1.39
1:D:805:LEU:CA	1:n:721:LEU:HD23	0.91	1.39
1:e:721:LEU:HD23	1:k:805:LEU:CA	0.91	1.38
1:A:805:LEU:CA	1:k:721:LEU:HD23	0.91	1.38
1:h:721:LEU:HD23	1:n:805:LEU:CA	0.91	1.38
1:A:808:ARG:HG3	1:k:725:ARG:CZ	1.33	1.38
1:D:808:ARG:HG3	1:n:725:ARG:CZ	1.33	1.36
1:b:720:ASN:ND2	1:h:790:GLN:OE1	1.60	1.34
1:A:725:ARG:CZ	1:G:808:ARG:HG3	1.33	1.34
1:h:720:ASN:ND2	1:n:790:GLN:OE1	1.60	1.34
1:S:720:ASN:ND2	1:Y:790:GLN:OE1	1.60	1.33
1:V:720:ASN:ND2	1:b:790:GLN:OE1	1.60	1.33
1:V:725:ARG:CZ	1:b:808:ARG:CG	1.96	1.33
1:Y:720:ASN:ND2	1:e:790:GLN:OE1	1.60	1.33
1:S:725:ARG:CZ	1:Y:808:ARG:CG	1.96	1.32
1:Y:725:ARG:CZ	1:e:808:ARG:CG	1.96	1.32
1:D:725:ARG:CZ	1:J:808:ARG:HG3	1.33	1.32
1:M:720:ASN:ND2	1:S:790:GLN:OE1	1.60	1.32
1:G:720:ASN:ND2	1:M:790:GLN:OE1	1.60	1.31
1:e:720:ASN:ND2	1:k:790:GLN:OE1	1.60	1.31
1:D:720:ASN:ND2	1:J:790:GLN:OE1	1.60	1.31
1:D:790:GLN:OE1	1:n:720:ASN:ND2	1.60	1.31
1:P:725:ARG:CZ	1:V:808:ARG:CG	1.96	1.30
1:P:720:ASN:ND2	1:V:790:GLN:OE1	1.60	1.30
1:G:725:ARG:CZ	1:M:808:ARG:HG3	1.33	1.30
1:b:725:ARG:CZ	1:h:808:ARG:CG	1.96	1.30
1:A:720:ASN:ND2	1:G:790:GLN:OE1	1.60	1.30
1:A:790:GLN:OE1	1:k:720:ASN:ND2	1.60	1.30
1:D:828:LEU:HD13	1:G:754:GLU:OE1	1.30	1.28
1:J:720:ASN:ND2	1:P:790:GLN:OE1	1.60	1.28
1:G:828:LEU:HD13	1:J:754:GLU:OE1	1.30	1.28
1:A:828:LEU:HD13	1:D:754:GLU:OE1	1.30	1.28
1:J:725:ARG:CZ	1:P:808:ARG:HG3	1.33	1.28
1:M:725:ARG:CZ	1:S:808:ARG:CG	1.96	1.27
1:S:828:LEU:HD13	1:V:754:GLU:OE1	1.30	1.27
1:J:828:LEU:HD13	1:M:754:GLU:OE1	1.30	1.27
1:A:754:GLU:OE1	1:n:828:LEU:HD13	1.30	1.26
1:e:725:ARG:CZ	1:k:808:ARG:CG	1.96	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:828:LEU:HD13	1:S:754:GLU:OE1	1.30	1.26
1:V:828:LEU:HD13	1:Y:754:GLU:OE1	1.30	1.26
1:M:725:ARG:CZ	1:S:808:ARG:HG3	1.33	1.26
1:M:828:LEU:HD13	1:P:754:GLU:OE1	1.30	1.25
1:Y:828:LEU:HD13	1:b:754:GLU:OE1	1.30	1.25
1:h:725:ARG:CZ	1:n:808:ARG:CG	1.96	1.25
1:k:828:LEU:HD13	1:n:754:GLU:OE1	1.30	1.25
1:J:725:ARG:CZ	1:P:808:ARG:CG	1.96	1.24
1:A:808:ARG:CG	1:k:725:ARG:CZ	1.96	1.23
1:b:828:LEU:HD13	1:e:754:GLU:OE1	1.30	1.22
1:G:725:ARG:CZ	1:M:808:ARG:CG	1.96	1.22
1:P:729:SER:OG	1:S:818:VAL:HG22	1.39	1.22
1:e:828:LEU:HD13	1:h:754:GLU:OE1	1.30	1.22
1:h:828:LEU:HD13	1:k:754:GLU:OE1	1.30	1.22
1:M:729:SER:OG	1:P:818:VAL:HG22	1.39	1.22
1:S:729:SER:OG	1:V:818:VAL:HG22	1.39	1.22
1:D:808:ARG:CG	1:n:725:ARG:CZ	1.96	1.21
1:J:729:SER:OG	1:M:818:VAL:HG22	1.39	1.21
1:V:729:SER:OG	1:Y:818:VAL:HG22	1.39	1.21
1:G:729:SER:OG	1:J:818:VAL:HG22	1.39	1.20
1:A:766:ARG:NH1	2:o:980:VAL:HG13	1.58	1.19
2:B:980:VAL:HG13	1:D:766:ARG:NH1	1.58	1.19
2:E:980:VAL:HG13	1:G:766:ARG:NH1	1.58	1.19
1:k:729:SER:OG	1:n:818:VAL:HG22	1.39	1.19
1:A:818:VAL:HG22	1:n:729:SER:OG	1.39	1.19
1:Y:729:SER:OG	1:b:818:VAL:HG22	1.39	1.19
1:h:729:SER:OG	1:k:818:VAL:HG22	1.39	1.19
2:l:980:VAL:HG13	1:n:766:ARG:NH1	1.58	1.19
1:D:742:PRO:HG2	1:G:810:ARG:NH1	1.58	1.19
2:H:980:VAL:HG13	1:J:766:ARG:NH1	1.58	1.19
2:Q:980:VAL:HG13	1:S:766:ARG:NH1	1.58	1.19
1:S:742:PRO:HG2	1:V:810:ARG:NH1	1.58	1.19
2:i:980:VAL:HG13	1:k:766:ARG:NH1	1.58	1.19
1:A:742:PRO:HG2	1:D:810:ARG:NH1	1.58	1.18
1:D:729:SER:OG	1:G:818:VAL:HG22	1.39	1.18
2:K:980:VAL:HG13	1:M:766:ARG:NH1	1.58	1.18
1:A:729:SER:OG	1:D:818:VAL:HG22	1.39	1.18
1:G:742:PRO:HG2	1:J:810:ARG:NH1	1.58	1.18
2:N:980:VAL:HG13	1:P:766:ARG:NH1	1.58	1.18
1:e:729:SER:OG	1:h:818:VAL:HG22	1.39	1.18
2:f:980:VAL:HG13	1:h:766:ARG:NH1	1.58	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:742:PRO:HG2	1:Y:810:ARG:NH1	1.58	1.17
1:M:742:PRO:HG2	1:P:810:ARG:NH1	1.58	1.17
1:P:742:PRO:HG2	1:S:810:ARG:NH1	1.58	1.17
2:c:980:VAL:HG13	1:e:766:ARG:NH1	1.58	1.17
1:b:729:SER:OG	1:e:818:VAL:HG22	1.39	1.17
1:h:742:PRO:HG2	1:k:810:ARG:NH1	1.58	1.17
1:A:810:ARG:NH1	1:n:742:PRO:HG2	1.58	1.17
1:D:725:ARG:NH1	1:J:808:ARG:HG3	0.84	1.17
1:Y:742:PRO:HG2	1:b:810:ARG:NH1	1.58	1.17
2:Z:980:VAL:HG13	1:b:766:ARG:NH1	1.58	1.17
1:b:742:PRO:HG2	1:e:810:ARG:NH1	1.58	1.17
1:e:742:PRO:HG2	1:h:810:ARG:NH1	1.58	1.17
1:G:725:ARG:NH1	1:M:808:ARG:HG3	0.84	1.17
1:P:725:ARG:NH1	1:V:808:ARG:HG3	0.84	1.17
1:Y:721:LEU:O	1:e:807:GLU:N	1.72	1.17
1:b:721:LEU:O	1:h:807:GLU:N	1.72	1.17
1:k:742:PRO:HG2	1:n:810:ARG:NH1	1.58	1.17
1:A:808:ARG:HG3	1:k:725:ARG:NH1	0.84	1.16
1:S:725:ARG:NH1	1:Y:808:ARG:HG3	0.84	1.16
1:h:725:ARG:NH1	1:n:808:ARG:HG3	0.84	1.16
1:A:725:ARG:NH1	1:G:808:ARG:HG3	0.84	1.16
1:D:721:LEU:HD22	1:J:805:LEU:HA	1.17	1.16
1:J:742:PRO:HG2	1:M:810:ARG:NH1	1.58	1.16
1:M:725:ARG:NH1	1:S:808:ARG:HG3	0.84	1.16
2:T:980:VAL:HG13	1:V:766:ARG:NH1	1.58	1.16
2:W:980:VAL:HG13	1:Y:766:ARG:NH1	1.58	1.16
1:e:721:LEU:HD22	1:k:805:LEU:HA	1.17	1.16
1:D:808:ARG:HG3	1:n:725:ARG:NH1	0.84	1.16
1:e:725:ARG:NH1	1:k:808:ARG:HG3	0.84	1.16
1:J:725:ARG:NH1	1:P:808:ARG:HG3	0.84	1.16
1:V:725:ARG:NH1	1:b:808:ARG:HG3	0.84	1.16
1:b:721:LEU:HD22	1:h:805:LEU:HA	1.17	1.16
1:V:721:LEU:O	1:b:807:GLU:N	1.72	1.15
1:e:721:LEU:O	1:k:807:GLU:N	1.72	1.15
1:b:725:ARG:NH1	1:h:808:ARG:HG3	0.84	1.15
1:G:721:LEU:HD22	1:M:805:LEU:HA	1.17	1.15
1:Y:725:ARG:NH1	1:e:808:ARG:HG3	0.84	1.15
1:A:721:LEU:HD22	1:G:805:LEU:HA	1.17	1.14
1:S:721:LEU:O	1:Y:807:GLU:N	1.72	1.14
1:P:721:LEU:HD22	1:V:805:LEU:HA	1.17	1.14
1:A:858:LEU:HD22	1:n:856:ASP:OD1	1.48	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:721:LEU:O	1:V:807:GLU:N	1.72	1.14
1:h:721:LEU:O	1:n:807:GLU:N	1.72	1.14
1:A:856:ASP:OD1	1:D:858:LEU:HD22	1.48	1.13
1:D:856:ASP:OD1	1:G:858:LEU:HD22	1.48	1.13
1:G:856:ASP:OD1	1:J:858:LEU:HD22	1.48	1.13
1:S:721:LEU:HD22	1:Y:805:LEU:HA	1.17	1.13
1:J:856:ASP:OD1	1:M:858:LEU:HD22	1.48	1.13
1:M:721:LEU:O	1:S:807:GLU:N	1.72	1.12
2:i:954:GLU:HA	2:i:987:ILE:HG12	1.29	1.12
1:h:721:LEU:HD22	1:n:805:LEU:HA	1.17	1.12
1:k:856:ASP:OD1	1:n:858:LEU:HD22	1.48	1.12
1:M:856:ASP:OD1	1:P:858:LEU:HD22	1.48	1.12
1:A:807:GLU:N	1:k:721:LEU:O	1.72	1.11
1:h:856:ASP:OD1	1:k:858:LEU:HD22	1.48	1.11
1:D:805:LEU:HA	1:n:721:LEU:HD22	1.17	1.11
2:K:954:GLU:HA	2:K:987:ILE:HG12	1.29	1.11
1:M:721:LEU:HD22	1:S:805:LEU:HA	1.17	1.11
2:Q:954:GLU:HA	2:Q:987:ILE:HG12	1.29	1.11
2:l:954:GLU:HA	2:l:987:ILE:HG12	1.29	1.11
1:J:721:LEU:O	1:P:807:GLU:N	1.72	1.11
1:P:856:ASP:OD1	1:S:858:LEU:HD22	1.48	1.11
1:Y:721:LEU:HD22	1:e:805:LEU:HA	1.17	1.11
1:A:735:ALA:HB3	1:A:739:LEU:HD12	1.33	1.10
1:G:711:SER:HB3	1:G:714:SER:HB2	1.26	1.10
1:n:735:ALA:HB3	1:n:739:LEU:HD12	1.33	1.10
1:M:721:LEU:O	1:S:805:LEU:O	1.69	1.10
1:P:721:LEU:O	1:V:805:LEU:O	1.69	1.10
1:e:856:ASP:OD1	1:h:858:LEU:HD22	1.48	1.10
2:f:954:GLU:HA	2:f:987:ILE:HG12	1.29	1.10
1:M:711:SER:HB3	1:M:714:SER:HB2	1.26	1.10
1:k:735:ALA:HB3	1:k:739:LEU:HD12	1.33	1.10
1:D:735:ALA:HB3	1:D:739:LEU:HD12	1.33	1.10
1:J:721:LEU:O	1:P:805:LEU:O	1.69	1.10
1:J:721:LEU:HD22	1:P:805:LEU:HA	1.17	1.10
1:b:856:ASP:OD1	1:e:858:LEU:HD22	1.48	1.10
1:D:807:GLU:N	1:n:721:LEU:O	1.72	1.10
1:S:721:LEU:O	1:Y:805:LEU:O	1.69	1.10
1:S:856:ASP:OD1	1:V:858:LEU:HD22	1.48	1.10
1:Y:856:ASP:OD1	1:b:858:LEU:HD22	1.48	1.10
1:Y:711:SER:HB3	1:Y:714:SER:HB2	1.26	1.09
1:D:711:SER:HB3	1:D:714:SER:HB2	1.26	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:721:LEU:O	1:M:805:LEU:O	1.69	1.09
1:b:711:SER:HB3	1:b:714:SER:HB2	1.26	1.09
1:G:721:LEU:O	1:M:807:GLU:N	1.72	1.09
1:G:735:ALA:HB3	1:G:739:LEU:HD12	1.33	1.09
1:V:856:ASP:OD1	1:Y:858:LEU:HD22	1.48	1.09
1:e:721:LEU:O	1:k:805:LEU:O	1.69	1.09
2:i:929:VAL:HG22	2:i:1009:ARG:HG2	1.35	1.09
1:J:711:SER:HB3	1:J:714:SER:HB2	1.26	1.09
1:V:721:LEU:HD22	1:b:805:LEU:HA	1.17	1.09
2:f:929:VAL:HG22	2:f:1009:ARG:HG2	1.35	1.09
1:h:735:ALA:HB3	1:h:739:LEU:HD12	1.33	1.09
2:l:929:VAL:HG22	2:l:1009:ARG:HG2	1.35	1.09
2:N:929:VAL:HG22	2:N:1009:ARG:HG2	1.35	1.09
1:V:711:SER:HB3	1:V:714:SER:HB2	1.26	1.09
1:e:711:SER:HB3	1:e:714:SER:HB2	1.26	1.09
1:h:721:LEU:O	1:n:805:LEU:O	1.69	1.09
1:A:721:LEU:O	1:G:807:GLU:N	1.72	1.08
1:V:721:LEU:O	1:b:805:LEU:O	1.69	1.08
1:D:721:LEU:O	1:J:807:GLU:N	1.72	1.08
1:D:721:LEU:O	1:J:805:LEU:O	1.69	1.08
1:J:735:ALA:HB3	1:J:739:LEU:HD12	1.33	1.08
2:K:929:VAL:HG22	2:K:1009:ARG:HG2	1.35	1.08
1:M:735:ALA:HB3	1:M:739:LEU:HD12	1.33	1.08
2:Q:929:VAL:HG22	2:Q:1009:ARG:HG2	1.35	1.08
1:b:721:LEU:O	1:h:805:LEU:O	1.69	1.08
2:c:929:VAL:HG22	2:c:1009:ARG:HG2	1.35	1.08
2:o:929:VAL:HG22	2:o:1009:ARG:HG2	1.35	1.08
1:A:805:LEU:O	1:k:721:LEU:O	1.69	1.08
1:D:805:LEU:O	1:n:721:LEU:O	1.69	1.08
2:H:929:VAL:HG22	2:H:1009:ARG:HG2	1.35	1.08
1:P:711:SER:HB3	1:P:714:SER:HB2	1.26	1.08
2:B:929:VAL:HG22	2:B:1009:ARG:HG2	1.35	1.08
2:T:929:VAL:HG22	2:T:1009:ARG:HG2	1.35	1.08
2:W:929:VAL:HG22	2:W:1009:ARG:HG2	1.35	1.08
2:Z:929:VAL:HG22	2:Z:1009:ARG:HG2	1.35	1.08
1:A:805:LEU:HA	1:k:721:LEU:HD22	1.17	1.08
2:E:929:VAL:HG22	2:E:1009:ARG:HG2	1.35	1.08
2:Z:954:GLU:HA	2:Z:987:ILE:HG12	1.29	1.08
1:h:711:SER:HB3	1:h:714:SER:HB2	1.26	1.08
1:A:721:LEU:O	1:G:805:LEU:O	1.69	1.07
1:P:735:ALA:HB3	1:P:739:LEU:HD12	1.33	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:711:SER:HB3	1:k:714:SER:HB2	1.26	1.07
2:E:954:GLU:HA	2:E:987:ILE:HG12	1.29	1.07
2:W:954:GLU:HA	2:W:987:ILE:HG12	1.29	1.07
1:S:711:SER:HB3	1:S:714:SER:HB2	1.26	1.07
1:e:735:ALA:HB3	1:e:739:LEU:HD12	1.33	1.07
2:o:954:GLU:HA	2:o:987:ILE:HG12	1.29	1.07
1:A:711:SER:HB3	1:A:714:SER:HB2	1.26	1.07
2:B:954:GLU:HA	2:B:987:ILE:HG12	1.29	1.07
1:S:735:ALA:HB3	1:S:739:LEU:HD12	1.33	1.06
1:Y:721:LEU:O	1:e:805:LEU:O	1.69	1.06
1:n:711:SER:HB3	1:n:714:SER:HB2	1.26	1.06
1:V:726:LEU:HD12	1:Y:890:ALA:HB3	1.38	1.06
2:c:954:GLU:HA	2:c:987:ILE:HG12	1.29	1.06
1:A:890:ALA:HB3	1:n:726:LEU:HD12	1.38	1.06
1:G:726:LEU:HB3	1:J:891:ARG:NH1	1.71	1.06
1:b:726:LEU:HD12	1:e:890:ALA:HB3	1.38	1.06
1:h:726:LEU:HD12	1:k:890:ALA:HB3	1.38	1.06
1:A:726:LEU:HB3	1:D:891:ARG:NH1	1.71	1.06
1:D:726:LEU:HB3	1:G:891:ARG:NH1	1.71	1.06
1:J:726:LEU:HB3	1:M:891:ARG:NH1	1.71	1.06
1:V:735:ALA:HB3	1:V:739:LEU:HD12	1.33	1.06
1:Y:742:PRO:HG2	1:b:810:ARG:HH11	1.12	1.05
1:Y:863:ALA:HB1	1:b:862:LEU:HD22	1.37	1.05
1:e:726:LEU:HB3	1:h:891:ARG:NH1	1.71	1.05
1:e:729:SER:OG	1:h:818:VAL:CG2	2.04	1.05
1:k:729:SER:OG	1:n:818:VAL:CG2	2.04	1.05
1:A:891:ARG:NH1	1:n:726:LEU:HB3	1.71	1.05
2:T:954:GLU:HA	2:T:987:ILE:HG12	1.29	1.05
1:b:742:PRO:HG2	1:e:810:ARG:HH11	1.12	1.05
1:A:729:SER:OG	1:D:818:VAL:CG2	2.04	1.05
1:D:729:SER:OG	1:G:818:VAL:CG2	2.04	1.05
1:M:726:LEU:HB3	1:P:891:ARG:NH1	1.71	1.05
1:M:726:LEU:HD22	1:P:891:ARG:HH22	1.22	1.05
1:V:729:SER:OG	1:Y:818:VAL:CG2	2.04	1.05
1:Y:729:SER:OG	1:b:818:VAL:CG2	2.04	1.05
1:Y:735:ALA:HB3	1:Y:739:LEU:HD12	1.33	1.05
1:b:735:ALA:HB3	1:b:739:LEU:HD12	1.33	1.05
1:k:726:LEU:HB3	1:n:891:ARG:NH1	1.71	1.05
2:H:954:GLU:HA	2:H:987:ILE:HG12	1.29	1.05
1:b:726:LEU:HD22	1:e:891:ARG:HH22	1.22	1.05
1:A:818:VAL:CG2	1:n:729:SER:OG	2.04	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:726:LEU:HD12	1:J:890:ALA:HB3	1.38	1.05
1:J:729:SER:OG	1:M:818:VAL:CG2	2.04	1.05
1:P:726:LEU:HB3	1:S:891:ARG:NH1	1.71	1.05
1:P:729:SER:OG	1:S:818:VAL:CG2	2.04	1.05
1:V:863:ALA:HB1	1:Y:862:LEU:HD22	1.37	1.05
1:b:729:SER:OG	1:e:818:VAL:CG2	2.04	1.05
1:h:726:LEU:HB3	1:k:891:ARG:NH1	1.71	1.05
1:P:726:LEU:HD12	1:S:890:ALA:HB3	1.38	1.04
1:b:726:LEU:HB3	1:e:891:ARG:NH1	1.71	1.04
1:P:726:LEU:HD22	1:S:891:ARG:HH22	1.22	1.04
1:S:726:LEU:HB3	1:V:891:ARG:NH1	1.71	1.04
1:b:863:ALA:HB1	1:e:862:LEU:HD22	1.37	1.04
1:e:863:ALA:HB1	1:h:862:LEU:HD22	1.37	1.04
1:A:726:LEU:HD22	1:D:891:ARG:HH22	1.22	1.04
1:A:726:LEU:HD12	1:D:890:ALA:HB3	1.38	1.04
1:G:729:SER:OG	1:J:818:VAL:CG2	2.04	1.04
1:S:863:ALA:HB1	1:V:862:LEU:HD22	1.37	1.04
1:Y:726:LEU:HD22	1:b:891:ARG:HH22	1.22	1.04
1:G:726:LEU:HD22	1:J:891:ARG:HH22	1.22	1.04
2:N:954:GLU:HA	2:N:987:ILE:HG12	1.29	1.04
1:S:729:SER:OG	1:V:818:VAL:CG2	2.04	1.04
1:J:726:LEU:HD22	1:M:891:ARG:HH22	1.22	1.04
1:V:726:LEU:HB3	1:Y:891:ARG:NH1	1.71	1.04
1:Y:726:LEU:HB3	1:b:891:ARG:NH1	1.71	1.04
1:h:729:SER:OG	1:k:818:VAL:CG2	2.04	1.04
1:A:891:ARG:HH22	1:n:726:LEU:HD22	1.22	1.03
1:Y:726:LEU:HD12	1:b:890:ALA:HB3	1.38	1.03
1:b:725:ARG:HH12	1:h:808:ARG:CG	1.56	1.03
1:e:726:LEU:HD12	1:h:890:ALA:HB3	1.38	1.03
1:e:726:LEU:HD22	1:h:891:ARG:HH22	1.22	1.03
1:e:726:LEU:HD13	1:h:891:ARG:NH1	1.73	1.03
1:h:726:LEU:HD13	1:k:891:ARG:NH1	1.73	1.03
1:h:863:ALA:HB1	1:k:862:LEU:HD22	1.37	1.03
1:k:726:LEU:HD13	1:n:891:ARG:NH1	1.73	1.03
1:A:726:LEU:HD13	1:D:891:ARG:NH1	1.73	1.03
1:A:891:ARG:NH1	1:n:726:LEU:HD13	1.73	1.03
1:M:726:LEU:HD12	1:P:890:ALA:HB3	1.38	1.03
1:Y:726:LEU:HD13	1:b:891:ARG:NH1	1.73	1.03
1:b:726:LEU:HD13	1:e:891:ARG:NH1	1.73	1.03
1:D:726:LEU:HD13	1:G:891:ARG:NH1	1.73	1.03
1:G:721:LEU:CD2	1:M:805:LEU:CB	2.24	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:863:ALA:HB1	1:S:862:LEU:HD22	1.37	1.03
1:V:726:LEU:HD13	1:Y:891:ARG:NH1	1.73	1.03
1:k:726:LEU:HD12	1:n:890:ALA:HB3	1.38	1.03
1:D:863:ALA:HB1	1:G:862:LEU:HD22	1.37	1.03
1:G:726:LEU:HD13	1:J:891:ARG:NH1	1.73	1.03
1:J:726:LEU:HD13	1:M:891:ARG:NH1	1.73	1.03
1:M:726:LEU:HD13	1:P:891:ARG:NH1	1.73	1.03
1:M:729:SER:OG	1:P:818:VAL:CG2	2.04	1.03
1:P:726:LEU:HD13	1:S:891:ARG:NH1	1.73	1.03
1:S:726:LEU:HD13	1:V:891:ARG:NH1	1.73	1.03
1:A:863:ALA:HB1	1:D:862:LEU:HD22	1.37	1.03
1:D:726:LEU:HD12	1:G:890:ALA:HB3	1.38	1.03
1:D:726:LEU:HD22	1:G:891:ARG:HH22	1.22	1.03
1:D:736:ASN:HB2	1:D:739:LEU:HG	1.41	1.03
1:G:736:ASN:HB2	1:G:739:LEU:HG	1.41	1.03
1:M:736:ASN:HB2	1:M:739:LEU:HG	1.41	1.03
1:P:736:ASN:HB2	1:P:739:LEU:HG	1.41	1.03
1:S:736:ASN:HB2	1:S:739:LEU:HG	1.41	1.03
1:b:891:ARG:HB3	1:b:891:ARG:HH11	1.24	1.03
1:J:736:ASN:HB2	1:J:739:LEU:HG	1.41	1.02
1:P:742:PRO:HG2	1:S:810:ARG:HH11	1.12	1.02
1:A:862:LEU:HD22	1:n:863:ALA:HB1	1.37	1.02
1:D:790:GLN:OE1	1:n:720:ASN:CG	1.88	1.02
1:G:863:ALA:HB1	1:J:862:LEU:HD22	1.37	1.02
1:S:726:LEU:HD22	1:V:891:ARG:HH22	1.22	1.02
1:S:742:PRO:HG2	1:V:810:ARG:HH11	1.12	1.02
1:A:736:ASN:HB2	1:A:739:LEU:HG	1.41	1.02
1:V:736:ASN:HB2	1:V:739:LEU:HG	1.41	1.02
1:V:742:PRO:HG2	1:Y:810:ARG:HH11	1.12	1.02
1:Y:891:ARG:HB3	1:Y:891:ARG:HH11	1.24	1.02
1:A:771:VAL:HB	1:A:781:ILE:HB	1.41	1.02
1:Y:736:ASN:HB2	1:Y:739:LEU:HG	1.41	1.02
1:e:742:PRO:HG2	1:h:810:ARG:HH11	1.12	1.02
1:n:736:ASN:HB2	1:n:739:LEU:HG	1.41	1.02
1:k:771:VAL:HB	1:k:781:ILE:HB	1.41	1.01
1:V:726:LEU:HD22	1:Y:891:ARG:HH22	1.22	1.01
1:e:891:ARG:HB3	1:e:891:ARG:HH11	1.24	1.01
1:k:863:ALA:HB1	1:n:862:LEU:HD22	1.37	1.01
1:J:863:ALA:HB1	1:M:862:LEU:HD22	1.37	1.01
1:S:721:LEU:CD2	1:Y:805:LEU:CB	2.24	1.01
1:S:771:VAL:HB	1:S:781:ILE:HB	1.41	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:726:LEU:HD22	1:n:891:ARG:HH22	1.22	1.01
1:D:721:LEU:HA	1:J:805:LEU:C	1.76	1.01
1:Y:720:ASN:CG	1:e:790:GLN:OE1	1.88	1.01
1:n:891:ARG:HB3	1:n:891:ARG:HH11	1.24	1.01
1:G:771:VAL:HB	1:G:781:ILE:HB	1.41	1.01
1:M:742:PRO:HG2	1:P:810:ARG:HH11	1.12	1.01
1:Y:771:VAL:HB	1:Y:781:ILE:HB	1.41	1.01
1:e:736:ASN:HB2	1:e:739:LEU:HG	1.41	1.01
1:D:726:LEU:HB3	1:G:891:ARG:HH12	1.26	1.00
1:J:721:LEU:HA	1:P:805:LEU:C	1.76	1.00
1:J:726:LEU:HD12	1:M:890:ALA:HB3	1.38	1.00
1:M:863:ALA:HB1	1:P:862:LEU:HD22	1.37	1.00
1:S:726:LEU:HD12	1:V:890:ALA:HB3	1.38	1.00
1:h:736:ASN:HB2	1:h:739:LEU:HG	1.41	1.00
1:b:736:ASN:HB2	1:b:739:LEU:HG	1.41	1.00
1:A:721:LEU:HA	1:G:805:LEU:C	1.76	1.00
1:G:726:LEU:HB3	1:J:891:ARG:HH12	1.26	1.00
1:P:771:VAL:HB	1:P:781:ILE:HB	1.41	1.00
1:P:891:ARG:HB3	1:P:891:ARG:HH11	1.24	1.00
1:V:771:VAL:HB	1:V:781:ILE:HB	1.41	1.00
1:h:726:LEU:HD22	1:k:891:ARG:HH22	1.22	1.00
1:k:891:ARG:HB3	1:k:891:ARG:HH11	1.24	1.00
1:A:891:ARG:HB3	1:A:891:ARG:HH11	1.24	1.00
1:J:726:LEU:HB3	1:M:891:ARG:HH12	1.26	1.00
1:k:736:ASN:HB2	1:k:739:LEU:HG	1.41	1.00
1:M:891:ARG:HB3	1:M:891:ARG:HH11	1.24	1.00
1:e:721:LEU:CD2	1:k:805:LEU:CB	2.24	1.00
1:k:742:PRO:HG2	1:n:810:ARG:HH11	1.12	1.00
1:V:721:LEU:CD2	1:b:805:LEU:CB	2.24	0.99
1:V:891:ARG:HB3	1:V:891:ARG:HH11	1.24	0.99
1:M:771:VAL:HB	1:M:781:ILE:HB	1.41	0.99
1:e:771:VAL:HB	1:e:781:ILE:HB	1.41	0.99
1:M:721:LEU:HA	1:S:805:LEU:C	1.76	0.99
1:h:742:PRO:HG2	1:k:810:ARG:HH11	1.12	0.99
1:V:725:ARG:CZ	1:b:808:ARG:CB	2.41	0.99
1:b:720:ASN:CG	1:h:790:GLN:OE1	1.88	0.99
1:b:725:ARG:CZ	1:h:808:ARG:CB	2.41	0.99
1:e:725:ARG:CZ	1:k:808:ARG:CB	2.41	0.99
1:n:771:VAL:HB	1:n:781:ILE:HB	1.41	0.99
1:A:810:ARG:HH11	1:n:742:PRO:HG2	1.12	0.99
1:D:771:VAL:HB	1:D:781:ILE:HB	1.41	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:805:LEU:C	1:n:721:LEU:HA	1.76	0.99
1:S:725:ARG:CZ	1:Y:808:ARG:CB	2.41	0.99
1:h:726:LEU:HB3	1:k:891:ARG:HH12	1.26	0.99
1:D:720:ASN:CG	1:J:790:GLN:OE1	1.88	0.99
1:M:725:ARG:CZ	1:S:808:ARG:CB	2.41	0.99
1:b:771:VAL:HB	1:b:781:ILE:HB	1.41	0.99
1:h:721:LEU:CD2	1:n:805:LEU:CB	2.24	0.99
1:D:725:ARG:HH12	1:J:808:ARG:CG	1.56	0.98
1:S:891:ARG:HB3	1:S:891:ARG:HH11	1.24	0.98
1:V:720:ASN:CG	1:b:790:GLN:OE1	1.88	0.98
1:S:901:LEU:HD11	2:T:909:LYS:HA	1.44	0.98
1:P:901:LEU:HD11	2:Q:909:LYS:HA	1.44	0.98
1:Y:720:ASN:CA	1:e:805:LEU:HD23	1.74	0.98
1:h:891:ARG:HB3	1:h:891:ARG:HH11	1.24	0.98
1:A:808:ARG:CB	1:k:725:ARG:CZ	2.41	0.98
1:G:725:ARG:HH12	1:M:808:ARG:CG	1.56	0.98
1:J:725:ARG:CZ	1:P:808:ARG:CB	2.41	0.98
1:Y:721:LEU:CD2	1:e:805:LEU:CB	2.24	0.98
1:D:808:ARG:CB	1:n:725:ARG:CZ	2.41	0.98
1:J:891:ARG:HB3	1:J:891:ARG:HH11	1.24	0.98
1:M:726:LEU:HB3	1:P:891:ARG:HH12	1.26	0.98
1:e:721:LEU:HA	1:k:805:LEU:C	1.76	0.98
1:V:901:LEU:HD11	2:W:909:LYS:HA	1.44	0.98
1:A:901:LEU:HD11	2:B:909:LYS:HA	1.44	0.98
1:M:725:ARG:HH12	1:S:808:ARG:CG	1.56	0.98
1:J:771:VAL:HB	1:J:781:ILE:HB	1.41	0.98
1:P:725:ARG:CZ	1:V:808:ARG:CB	2.41	0.98
1:e:720:ASN:CG	1:k:790:GLN:OE1	1.88	0.98
1:h:901:LEU:HD11	2:i:909:LYS:HA	1.44	0.98
1:M:901:LEU:HD11	2:N:909:LYS:HA	1.44	0.98
1:D:891:ARG:HB3	1:D:891:ARG:HH11	1.24	0.97
1:P:721:LEU:HA	1:V:805:LEU:C	1.76	0.97
1:Y:725:ARG:CZ	1:e:808:ARG:CB	2.41	0.97
1:A:725:ARG:CZ	1:G:808:ARG:CB	2.41	0.97
1:J:742:PRO:HG2	1:M:810:ARG:HH11	1.12	0.97
1:A:742:PRO:HG2	1:D:810:ARG:HH11	1.12	0.97
1:h:725:ARG:CZ	1:n:808:ARG:CB	2.41	0.97
1:h:771:VAL:HB	1:h:781:ILE:HB	1.41	0.97
1:k:901:LEU:HD11	2:l:909:LYS:HA	1.44	0.97
1:k:729:SER:HG	1:n:818:VAL:HG22	1.30	0.97
1:A:805:LEU:C	1:k:721:LEU:HA	1.76	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:725:ARG:CZ	1:M:808:ARG:CB	2.41	0.97
1:e:725:ARG:HH12	1:k:808:ARG:CG	1.56	0.97
1:D:901:LEU:HD11	2:E:909:LYS:HA	1.44	0.97
1:A:805:LEU:CB	1:k:721:LEU:CD2	2.24	0.97
1:G:811:ASN:HB2	1:G:816:THR:HB	1.47	0.97
1:Y:901:LEU:HD11	2:Z:909:LYS:HA	1.44	0.97
1:A:726:LEU:HB3	1:D:891:ARG:HH12	1.26	0.97
1:b:757:THR:HG21	1:b:802:VAL:HB	1.46	0.97
1:J:811:ASN:HB2	1:J:816:THR:HB	1.47	0.97
1:Y:811:ASN:HB2	1:Y:816:THR:HB	1.47	0.97
1:b:721:LEU:CD2	1:h:805:LEU:CB	2.24	0.97
1:e:757:THR:HG21	1:e:802:VAL:HB	1.46	0.97
1:h:757:THR:HG21	1:h:802:VAL:HB	1.46	0.97
1:V:811:ASN:HB2	1:V:816:THR:HB	1.47	0.97
1:J:901:LEU:HD11	2:K:909:LYS:HA	1.44	0.96
1:Y:757:THR:HG21	1:Y:802:VAL:HB	1.46	0.96
1:h:720:ASN:CG	1:n:790:GLN:OE1	1.88	0.96
1:D:725:ARG:CZ	1:J:808:ARG:CB	2.41	0.96
1:P:720:ASN:CG	1:V:790:GLN:OE1	1.88	0.96
1:P:726:LEU:HB3	1:S:891:ARG:HH12	1.26	0.96
1:D:811:ASN:HB2	1:D:816:THR:HB	1.47	0.96
1:k:757:THR:HG21	1:k:802:VAL:HB	1.46	0.96
1:n:901:LEU:HD11	2:o:909:LYS:HA	1.44	0.96
1:S:757:THR:HG21	1:S:802:VAL:HB	1.46	0.96
1:V:757:THR:HG21	1:V:802:VAL:HB	1.46	0.96
1:e:901:LEU:HD11	2:f:909:LYS:HA	1.44	0.96
1:A:720:ASN:CG	1:G:790:GLN:OE1	1.88	0.96
1:J:720:ASN:CG	1:P:790:GLN:OE1	1.88	0.96
1:J:725:ARG:HH12	1:P:808:ARG:CG	1.56	0.96
1:S:721:LEU:HA	1:Y:805:LEU:C	1.76	0.96
1:k:726:LEU:HB3	1:n:891:ARG:HH12	1.26	0.96
1:P:757:THR:HG21	1:P:802:VAL:HB	1.46	0.96
1:b:811:ASN:HB2	1:b:816:THR:HB	1.47	0.96
1:b:901:LEU:HD11	2:c:909:LYS:HA	1.44	0.96
1:G:891:ARG:HB3	1:G:891:ARG:HH11	1.24	0.95
1:P:725:ARG:HH12	1:V:808:ARG:CG	1.56	0.95
1:h:721:LEU:HA	1:n:805:LEU:C	1.76	0.95
1:n:757:THR:HG21	1:n:802:VAL:HB	1.46	0.95
1:D:742:PRO:HG2	1:G:810:ARG:HH11	1.12	0.95
1:M:757:THR:HG21	1:M:802:VAL:HB	1.46	0.95
1:M:811:ASN:HB2	1:M:816:THR:HB	1.47	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:811:ASN:HB2	1:S:816:THR:HB	1.47	0.95
1:V:726:LEU:HB3	1:Y:891:ARG:HH12	1.26	0.95
2:E:999:ILE:HD11	2:E:1008:VAL:HG23	1.47	0.95
1:A:811:ASN:HB2	1:A:816:THR:HB	1.47	0.95
2:B:999:ILE:HD11	2:B:1008:VAL:HG23	1.47	0.95
2:H:999:ILE:HD11	2:H:1008:VAL:HG23	1.47	0.95
1:J:720:ASN:CA	1:P:805:LEU:HD23	1.74	0.95
1:G:901:LEU:HD11	2:H:909:LYS:HA	1.44	0.95
1:S:726:LEU:HB3	1:V:891:ARG:HH12	1.26	0.95
1:V:901:LEU:HD11	2:W:909:LYS:CA	1.97	0.95
1:Y:725:ARG:HH12	1:e:808:ARG:CG	1.56	0.95
1:Y:757:THR:HG22	1:Y:791:ILE:HD13	1.49	0.95
1:b:757:THR:HG22	1:b:791:ILE:HD13	1.49	0.95
1:A:725:ARG:NH2	1:G:808:ARG:CB	2.25	0.95
1:D:808:ARG:CG	1:n:725:ARG:HH12	1.56	0.95
2:K:999:ILE:HD11	2:K:1008:VAL:HG23	1.47	0.95
1:V:757:THR:HG22	1:V:791:ILE:HD13	1.49	0.95
1:e:757:THR:HG22	1:e:791:ILE:HD13	1.49	0.95
1:A:725:ARG:HH12	1:G:808:ARG:CG	1.56	0.95
1:A:891:ARG:HH12	1:n:726:LEU:HB3	1.26	0.95
1:D:805:LEU:CB	1:n:721:LEU:CD2	2.24	0.95
1:G:901:LEU:HD11	2:H:909:LYS:CA	1.97	0.95
1:J:757:THR:HG21	1:J:802:VAL:HB	1.46	0.95
1:J:901:LEU:HD11	2:K:909:LYS:CA	1.97	0.95
2:N:999:ILE:HD11	2:N:1008:VAL:HG23	1.47	0.95
1:S:725:ARG:HH12	1:Y:808:ARG:CG	1.56	0.95
1:Y:901:LEU:HD11	2:Z:909:LYS:CA	1.97	0.95
1:A:757:THR:HG21	1:A:802:VAL:HB	1.46	0.95
2:H:964:VAL:HG12	2:H:999:ILE:HG23	1.49	0.95
1:b:721:LEU:HA	1:h:805:LEU:C	1.76	0.95
2:B:964:VAL:HG12	2:B:999:ILE:HG23	1.49	0.95
1:D:757:THR:HG21	1:D:802:VAL:HB	1.46	0.95
1:D:901:LEU:HD11	2:E:909:LYS:CA	1.97	0.95
1:G:757:THR:HG21	1:G:802:VAL:HB	1.46	0.95
1:S:757:THR:HG22	1:S:791:ILE:HD13	1.49	0.95
1:S:901:LEU:HD11	2:T:909:LYS:CA	1.97	0.95
1:h:757:THR:HG22	1:h:791:ILE:HD13	1.49	0.95
1:k:901:LEU:HD11	2:l:909:LYS:CA	1.97	0.95
2:l:980:VAL:HG12	2:l:988:ILE:HG12	1.49	0.95
1:n:811:ASN:HB2	1:n:816:THR:HB	1.47	0.95
1:A:901:LEU:HD11	2:B:909:LYS:CA	1.97	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:901:LEU:HD11	2:i:909:LYS:CA	1.97	0.94
1:n:901:LEU:HD11	2:o:909:LYS:CA	1.97	0.94
2:o:999:ILE:HD11	2:o:1008:VAL:HG23	1.47	0.94
2:Q:999:ILE:HD11	2:Q:1008:VAL:HG23	1.47	0.94
1:V:721:LEU:HA	1:b:805:LEU:C	1.76	0.94
1:Y:757:THR:HB	1:Y:791:ILE:HG21	1.49	0.94
1:n:757:THR:HB	1:n:791:ILE:HG21	1.49	0.94
1:M:901:LEU:HD11	2:N:909:LYS:CA	1.97	0.94
1:P:757:THR:HG22	1:P:791:ILE:HD13	1.49	0.94
1:h:757:THR:HB	1:h:791:ILE:HG21	1.49	0.94
1:k:757:THR:HG22	1:k:791:ILE:HD13	1.49	0.94
1:M:721:LEU:C	1:S:806:TRP:C	2.34	0.94
1:P:757:THR:HB	1:P:791:ILE:HG21	1.49	0.94
2:i:980:VAL:HG12	2:i:988:ILE:HG12	1.49	0.94
1:k:811:ASN:HB2	1:k:816:THR:HB	1.47	0.94
2:o:980:VAL:HG12	2:o:988:ILE:HG12	1.49	0.94
1:J:721:LEU:C	1:P:806:TRP:C	2.34	0.94
1:M:757:THR:HG22	1:M:791:ILE:HD13	1.49	0.94
2:N:964:VAL:HG12	2:N:999:ILE:HG23	1.49	0.94
1:P:721:LEU:C	1:V:806:TRP:C	2.34	0.94
1:S:757:THR:HB	1:S:791:ILE:HG21	1.49	0.94
1:b:901:LEU:HD11	2:c:909:LYS:CA	1.97	0.94
1:e:811:ASN:HB2	1:e:816:THR:HB	1.47	0.94
1:n:757:THR:HG22	1:n:791:ILE:HD13	1.49	0.94
1:A:790:GLN:OE1	1:k:720:ASN:CG	1.88	0.94
1:D:757:THR:HB	1:D:791:ILE:HG21	1.49	0.94
2:T:999:ILE:HD11	2:T:1008:VAL:HG23	1.47	0.94
2:l:999:ILE:HD11	2:l:1008:VAL:HG23	1.47	0.94
1:A:757:THR:HG22	1:A:791:ILE:HD13	1.49	0.94
1:A:757:THR:HB	1:A:791:ILE:HG21	1.49	0.94
1:A:808:ARG:CG	1:k:725:ARG:HH12	1.56	0.94
1:D:725:ARG:NH2	1:J:808:ARG:CB	2.25	0.94
1:G:721:LEU:C	1:M:806:TRP:C	2.34	0.94
1:G:742:PRO:HG2	1:J:810:ARG:HH11	1.12	0.94
1:J:757:THR:HB	1:J:791:ILE:HG21	1.49	0.94
1:J:757:THR:HG22	1:J:791:ILE:HD13	1.49	0.94
1:Y:726:LEU:HB3	1:b:891:ARG:HH12	1.26	0.94
1:e:901:LEU:HD11	2:f:909:LYS:CA	1.97	0.94
2:f:980:VAL:HG12	2:f:988:ILE:HG12	1.49	0.94
1:h:811:ASN:HB2	1:h:816:THR:HB	1.47	0.94
1:D:757:THR:HG22	1:D:791:ILE:HD13	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:757:THR:HG22	1:G:791:ILE:HD13	1.49	0.94
1:S:721:LEU:C	1:Y:806:TRP:C	2.34	0.94
1:Y:721:LEU:C	1:e:806:TRP:C	2.34	0.94
1:Y:721:LEU:HA	1:e:805:LEU:C	1.76	0.94
1:b:726:LEU:HB3	1:e:891:ARG:HH12	1.26	0.94
2:l:964:VAL:HG12	2:l:999:ILE:HG23	1.49	0.94
1:P:901:LEU:HD11	2:Q:909:LYS:CA	1.97	0.94
1:V:747:ILE:HG13	1:V:889:VAL:HG23	1.48	0.94
2:W:999:ILE:HD11	2:W:1008:VAL:HG23	1.47	0.94
1:Y:747:ILE:HG13	1:Y:889:VAL:HG23	1.48	0.94
1:G:757:THR:HB	1:G:791:ILE:HG21	1.49	0.93
1:V:721:LEU:C	1:b:806:TRP:C	2.34	0.93
1:S:747:ILE:HG13	1:S:889:VAL:HG23	1.48	0.93
2:i:999:ILE:HD11	2:i:1008:VAL:HG23	1.47	0.93
2:B:980:VAL:HG12	2:B:988:ILE:HG12	1.49	0.93
1:M:757:THR:HB	1:M:791:ILE:HG21	1.49	0.93
1:S:725:ARG:NH1	1:Y:819:ASN:OD1	2.02	0.93
1:V:720:ASN:CA	1:b:805:LEU:HD23	1.74	0.93
2:c:980:VAL:HG12	2:c:988:ILE:HG12	1.49	0.93
1:D:721:LEU:C	1:J:806:TRP:C	2.34	0.93
1:b:747:ILE:HG13	1:b:889:VAL:HG23	1.48	0.93
1:G:725:ARG:NH1	1:M:819:ASN:OD1	2.02	0.93
1:P:747:ILE:HG13	1:P:889:VAL:HG23	1.48	0.93
1:P:811:ASN:HB2	1:P:816:THR:HB	1.47	0.93
2:Q:980:VAL:HG12	2:Q:988:ILE:HG12	1.49	0.93
1:V:725:ARG:HH12	1:b:808:ARG:CG	1.56	0.93
2:Z:999:ILE:HD11	2:Z:1008:VAL:HG23	1.47	0.93
1:b:720:ASN:CA	1:h:805:LEU:HD23	1.74	0.93
1:G:720:ASN:CA	1:M:805:LEU:HD23	1.74	0.93
1:J:725:ARG:NH1	1:P:819:ASN:OD1	2.02	0.93
1:h:725:ARG:NH2	1:n:808:ARG:CB	2.25	0.93
1:V:725:ARG:NH1	1:b:819:ASN:OD1	2.02	0.93
2:c:999:ILE:HD11	2:c:1008:VAL:HG23	1.47	0.93
1:A:720:ASN:CA	1:G:805:LEU:HD23	1.74	0.93
2:E:964:VAL:HG12	2:E:999:ILE:HG23	1.49	0.93
1:e:726:LEU:HB3	1:h:891:ARG:HH12	1.26	0.93
1:e:747:ILE:HG13	1:e:889:VAL:HG23	1.48	0.93
1:e:757:THR:HB	1:e:791:ILE:HG21	1.49	0.93
2:f:999:ILE:HD11	2:f:1008:VAL:HG23	1.47	0.93
2:o:964:VAL:HG12	2:o:999:ILE:HG23	1.49	0.93
1:A:721:LEU:C	1:G:806:TRP:C	2.34	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:747:ILE:HG13	1:M:889:VAL:HG23	1.48	0.93
1:P:725:ARG:NH1	1:V:819:ASN:OD1	2.02	0.93
2:T:980:VAL:HG12	2:T:988:ILE:HG12	1.49	0.93
1:A:747:ILE:HG13	1:A:889:VAL:HG23	1.48	0.92
1:A:808:ARG:CB	1:k:725:ARG:NH2	2.25	0.92
1:J:721:LEU:O	1:P:806:TRP:C	2.13	0.92
2:N:980:VAL:HG12	2:N:988:ILE:HG12	1.49	0.92
1:b:721:LEU:O	1:h:806:TRP:C	2.13	0.92
1:A:891:ARG:HH12	1:n:726:LEU:CB	1.82	0.92
1:D:747:ILE:HG13	1:D:889:VAL:HG23	1.48	0.92
1:h:725:ARG:NH1	1:n:819:ASN:OD1	2.02	0.92
1:D:725:ARG:NH1	1:J:819:ASN:OD1	2.02	0.92
1:J:747:ILE:HG13	1:J:889:VAL:HG23	1.48	0.92
1:S:721:LEU:O	1:Y:806:TRP:C	2.13	0.92
1:V:757:THR:HB	1:V:791:ILE:HG21	1.49	0.92
2:Z:980:VAL:HG12	2:Z:988:ILE:HG12	1.49	0.92
1:h:725:ARG:HH12	1:n:808:ARG:CG	1.56	0.92
1:h:747:ILE:HG13	1:h:889:VAL:HG23	1.48	0.92
2:i:964:VAL:HG12	2:i:999:ILE:HG23	1.49	0.92
1:n:747:ILE:HG13	1:n:889:VAL:HG23	1.48	0.92
1:D:819:ASN:OD1	1:n:725:ARG:NH1	2.02	0.92
1:G:747:ILE:HG13	1:G:889:VAL:HG23	1.48	0.92
2:K:964:VAL:HG12	2:K:999:ILE:HG23	1.49	0.92
1:b:757:THR:HB	1:b:791:ILE:HG21	1.49	0.92
1:e:720:ASN:CA	1:k:805:LEU:HD23	1.74	0.92
1:e:725:ARG:NH2	1:k:808:ARG:CB	2.25	0.92
1:k:726:LEU:CB	1:n:891:ARG:HH12	1.82	0.92
1:A:721:LEU:CD2	1:G:805:LEU:CB	2.24	0.92
1:D:805:LEU:HD23	1:n:720:ASN:CA	1.74	0.92
2:T:964:VAL:HG12	2:T:999:ILE:HG23	1.49	0.92
1:k:747:ILE:HG13	1:k:889:VAL:HG23	1.48	0.92
1:A:805:LEU:HD23	1:k:720:ASN:CA	1.74	0.92
1:A:806:TRP:C	1:k:721:LEU:O	2.13	0.92
1:D:806:TRP:C	1:n:721:LEU:C	2.34	0.92
1:G:745:LYS:HD3	1:G:771:VAL:HG13	1.51	0.92
1:S:726:LEU:CB	1:V:891:ARG:HH12	1.82	0.92
1:M:721:LEU:O	1:S:806:TRP:C	2.13	0.92
2:c:964:VAL:HG12	2:c:999:ILE:HG23	1.49	0.92
1:e:721:LEU:O	1:k:806:TRP:C	2.13	0.92
1:k:757:THR:HB	1:k:791:ILE:HG21	1.49	0.92
1:A:726:LEU:CB	1:D:891:ARG:HH12	1.82	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:819:ASN:OD1	1:k:725:ARG:NH1	2.02	0.92
1:D:745:LYS:HD3	1:D:771:VAL:HG13	1.51	0.92
1:G:721:LEU:HA	1:M:805:LEU:C	1.76	0.92
1:G:725:ARG:NH2	1:M:808:ARG:CB	2.25	0.92
1:V:721:LEU:O	1:b:806:TRP:C	2.13	0.92
1:V:726:LEU:CB	1:Y:891:ARG:HH12	1.82	0.92
2:W:980:VAL:HG12	2:W:988:ILE:HG12	1.49	0.92
1:A:745:LYS:HD3	1:A:771:VAL:HG13	1.51	0.92
1:D:721:LEU:O	1:J:806:TRP:C	2.13	0.92
1:J:745:LYS:HD3	1:J:771:VAL:HG13	1.51	0.92
1:P:721:LEU:O	1:V:806:TRP:C	2.13	0.92
2:W:964:VAL:HG12	2:W:999:ILE:HG23	1.49	0.92
2:Z:964:VAL:HG12	2:Z:999:ILE:HG23	1.49	0.92
1:A:721:LEU:O	1:G:806:TRP:C	2.13	0.91
1:G:720:ASN:CG	1:M:790:GLN:OE1	1.88	0.91
1:J:726:LEU:CB	1:M:891:ARG:HH12	1.82	0.91
1:M:725:ARG:NH1	1:S:819:ASN:OD1	2.02	0.91
1:S:720:ASN:CG	1:Y:790:GLN:OE1	1.88	0.91
1:Y:721:LEU:O	1:e:806:TRP:C	2.13	0.91
1:Y:725:ARG:NH1	1:e:819:ASN:OD1	2.02	0.91
1:h:721:LEU:O	1:n:806:TRP:C	2.13	0.91
1:A:723:PRO:HD3	1:G:807:GLU:H	1.35	0.91
1:A:829:GLY:HA3	1:D:753:THR:CG2	2.00	0.91
1:D:829:GLY:HA3	1:G:753:THR:CG2	2.00	0.91
1:b:725:ARG:NH1	1:h:819:ASN:OD1	2.02	0.91
1:b:726:LEU:CB	1:e:891:ARG:HH12	1.82	0.91
1:e:725:ARG:NH1	1:k:819:ASN:OD1	2.02	0.91
1:D:808:ARG:CB	1:n:725:ARG:NH2	2.25	0.91
1:G:781:ILE:HD11	1:G:893:LEU:HD12	1.53	0.91
1:J:781:ILE:HD11	1:J:893:LEU:HD12	1.53	0.91
2:K:980:VAL:HG12	2:K:988:ILE:HG12	1.49	0.91
1:n:745:LYS:HD3	1:n:771:VAL:HG13	1.51	0.91
1:A:753:THR:CG2	1:n:829:GLY:HA3	2.00	0.91
1:D:781:ILE:HD11	1:D:893:LEU:HD12	1.53	0.91
1:e:723:PRO:HD3	1:k:807:GLU:H	1.35	0.91
1:A:725:ARG:NH1	1:G:819:ASN:OD1	2.02	0.91
1:A:806:TRP:C	1:k:721:LEU:C	2.34	0.91
1:G:721:LEU:O	1:M:806:TRP:C	2.13	0.91
1:G:829:GLY:HA3	1:J:753:THR:CG2	2.00	0.91
2:H:980:VAL:HG12	2:H:988:ILE:HG12	1.49	0.91
1:M:726:LEU:CB	1:P:891:ARG:HH12	1.82	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:723:PRO:HD3	1:n:807:GLU:H	1.35	0.91
2:B:954:GLU:CA	2:B:987:ILE:HG12	2.01	0.91
2:E:980:VAL:HG12	2:E:988:ILE:HG12	1.49	0.91
2:K:954:GLU:CA	2:K:987:ILE:HG12	2.01	0.91
1:M:781:ILE:HD11	1:M:893:LEU:HD12	1.53	0.91
1:e:726:LEU:CB	1:h:891:ARG:HH12	1.82	0.91
2:f:964:VAL:HG12	2:f:999:ILE:HG23	1.49	0.91
1:k:901:LEU:HB2	1:k:902:ALA:HA	1.50	0.91
1:n:901:LEU:HB2	1:n:902:ALA:HA	1.50	0.91
1:A:901:LEU:HB2	1:A:902:ALA:HA	1.50	0.91
1:D:720:ASN:CA	1:J:805:LEU:HD23	1.74	0.91
1:M:745:LYS:HD3	1:M:771:VAL:HG13	1.51	0.91
1:S:829:GLY:HA3	1:V:753:THR:CG2	2.00	0.91
1:V:829:GLY:HA3	1:Y:753:THR:CG2	2.00	0.91
1:Y:726:LEU:CB	1:b:891:ARG:HH12	1.82	0.91
1:k:745:LYS:HD3	1:k:771:VAL:HG13	1.51	0.91
1:D:721:LEU:CD2	1:J:805:LEU:CB	2.24	0.91
1:G:726:LEU:CB	1:J:891:ARG:HH12	1.82	0.91
1:P:726:LEU:CB	1:S:891:ARG:HH12	1.82	0.91
1:h:726:LEU:CB	1:k:891:ARG:HH12	1.82	0.91
2:Q:964:VAL:HG12	2:Q:999:ILE:HG23	1.49	0.91
1:S:781:ILE:HD11	1:S:893:LEU:HD12	1.53	0.91
1:V:781:ILE:HD11	1:V:893:LEU:HD12	1.53	0.91
1:h:901:LEU:HB2	1:h:902:ALA:HA	1.50	0.91
1:k:829:GLY:HA3	1:n:753:THR:CG2	2.00	0.91
1:J:829:GLY:HA3	1:M:753:THR:CG2	2.00	0.91
1:P:781:ILE:HD11	1:P:893:LEU:HD12	1.53	0.91
1:P:901:LEU:HB2	1:P:902:ALA:HA	1.50	0.91
2:Q:954:GLU:CA	2:Q:987:ILE:HG12	2.01	0.91
1:e:721:LEU:CA	1:k:805:LEU:C	2.44	0.91
2:H:954:GLU:CA	2:H:987:ILE:HG12	2.01	0.90
1:P:721:LEU:CA	1:V:805:LEU:C	2.44	0.90
1:P:829:GLY:HA3	1:S:753:THR:CG2	2.00	0.90
1:h:745:LYS:HD3	1:h:771:VAL:HG13	1.51	0.90
2:i:954:GLU:CA	2:i:987:ILE:HG12	2.01	0.90
1:A:726:LEU:HD12	1:D:890:ALA:O	1.72	0.90
1:A:781:ILE:HD11	1:A:893:LEU:HD12	1.53	0.90
1:D:723:PRO:HD3	1:J:807:GLU:H	1.35	0.90
1:D:901:LEU:HB2	1:D:902:ALA:HA	1.50	0.90
1:S:726:LEU:HD12	1:V:890:ALA:O	1.72	0.90
1:Y:781:ILE:HD11	1:Y:893:LEU:HD12	1.53	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:829:GLY:HA3	1:b:753:THR:CG2	2.00	0.90
1:b:725:ARG:NH2	1:h:808:ARG:CB	2.25	0.90
1:h:720:ASN:CA	1:n:805:LEU:HD23	1.74	0.90
1:h:726:LEU:HD12	1:k:890:ALA:O	1.72	0.90
2:o:954:GLU:CA	2:o:987:ILE:HG12	2.01	0.90
1:D:806:TRP:C	1:n:721:LEU:O	2.13	0.90
1:D:807:GLU:H	1:n:723:PRO:HD3	1.35	0.90
1:M:720:ASN:CA	1:S:805:LEU:HD23	1.74	0.90
1:S:901:LEU:HB2	1:S:902:ALA:HA	1.50	0.90
1:D:726:LEU:HD12	1:G:890:ALA:O	1.72	0.90
1:J:725:ARG:NH2	1:P:808:ARG:CB	2.25	0.90
1:M:829:GLY:HA3	1:P:753:THR:CG2	2.00	0.90
1:P:726:LEU:HD12	1:S:890:ALA:O	1.72	0.90
1:e:901:LEU:HB2	1:e:902:ALA:HA	1.50	0.90
2:l:954:GLU:CA	2:l:987:ILE:HG12	2.01	0.90
1:D:805:LEU:C	1:n:721:LEU:CA	2.44	0.90
1:M:901:LEU:HB2	1:M:902:ALA:HA	1.50	0.90
1:P:745:LYS:HD3	1:P:771:VAL:HG13	1.51	0.90
1:S:721:LEU:CA	1:Y:805:LEU:C	2.44	0.90
1:h:829:GLY:HA3	1:k:753:THR:CG2	2.00	0.90
1:A:890:ALA:O	1:n:726:LEU:HD12	1.72	0.90
1:D:726:LEU:CB	1:G:891:ARG:HH12	1.82	0.90
2:E:954:GLU:CA	2:E:987:ILE:HG12	2.01	0.90
1:M:720:ASN:CG	1:S:790:GLN:OE1	1.88	0.90
2:T:954:GLU:CA	2:T:987:ILE:HG12	2.01	0.90
1:e:745:LYS:HD3	1:e:771:VAL:HG13	1.51	0.90
1:h:721:LEU:C	1:n:806:TRP:C	2.34	0.90
1:h:721:LEU:CA	1:n:805:LEU:C	2.44	0.90
2:c:954:GLU:CA	2:c:987:ILE:HG12	2.01	0.90
1:k:726:LEU:HD12	1:n:890:ALA:O	1.72	0.90
1:J:901:LEU:HB2	1:J:902:ALA:HA	1.50	0.90
1:M:721:LEU:CA	1:S:805:LEU:C	2.44	0.90
2:W:954:GLU:CA	2:W:987:ILE:HG12	2.01	0.90
1:b:781:ILE:HD11	1:b:893:LEU:HD12	1.53	0.90
1:b:901:LEU:HB2	1:b:902:ALA:HA	1.50	0.90
2:N:954:GLU:CA	2:N:987:ILE:HG12	2.01	0.90
1:V:723:PRO:HD3	1:b:807:GLU:H	1.35	0.90
1:V:726:LEU:HD12	1:Y:890:ALA:O	1.72	0.90
1:G:721:LEU:CA	1:M:805:LEU:C	2.44	0.90
1:J:725:ARG:CZ	1:P:808:ARG:HB2	2.02	0.90
1:V:901:LEU:HB2	1:V:902:ALA:HA	1.50	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:781:ILE:HD11	1:n:893:LEU:HD12	1.53	0.90
1:A:805:LEU:C	1:k:721:LEU:CA	2.44	0.89
1:G:726:LEU:HD12	1:J:890:ALA:O	1.72	0.89
1:J:723:PRO:HD3	1:P:807:GLU:H	1.35	0.89
1:e:726:LEU:HD12	1:h:890:ALA:O	1.72	0.89
1:A:725:ARG:CZ	1:G:808:ARG:HB2	2.02	0.89
1:G:901:LEU:HB2	1:G:902:ALA:HA	1.50	0.89
1:M:725:ARG:CZ	1:S:808:ARG:HB2	2.02	0.89
1:S:720:ASN:CA	1:Y:805:LEU:HD23	1.74	0.89
1:S:745:LYS:HD3	1:S:771:VAL:HG13	1.51	0.89
1:b:745:LYS:HD3	1:b:771:VAL:HG13	1.51	0.89
1:A:721:LEU:CA	1:G:805:LEU:C	2.45	0.89
1:G:725:ARG:CZ	1:M:808:ARG:HB2	2.02	0.89
1:M:726:LEU:HD12	1:P:890:ALA:O	1.72	0.89
2:Z:954:GLU:CA	2:Z:987:ILE:HG12	2.01	0.89
1:b:829:GLY:HA3	1:e:753:THR:CG2	2.00	0.89
1:e:781:ILE:HD11	1:e:893:LEU:HD12	1.53	0.89
2:f:954:GLU:CA	2:f:987:ILE:HG12	2.01	0.89
1:M:723:PRO:HD3	1:S:807:GLU:H	1.35	0.89
1:V:721:LEU:CA	1:b:805:LEU:C	2.45	0.89
1:V:745:LYS:HD3	1:V:771:VAL:HG13	1.51	0.89
1:A:808:ARG:HB2	1:k:725:ARG:CZ	2.02	0.89
1:M:721:LEU:CD2	1:S:805:LEU:CB	2.24	0.89
1:Y:901:LEU:HB2	1:Y:902:ALA:HA	1.50	0.89
1:A:807:GLU:H	1:k:723:PRO:HD3	1.36	0.89
1:J:721:LEU:CA	1:P:805:LEU:C	2.44	0.89
1:M:725:ARG:NH2	1:S:808:ARG:CB	2.25	0.89
1:b:726:LEU:HD12	1:e:890:ALA:O	1.72	0.89
1:e:829:GLY:HA3	1:h:753:THR:CG2	2.00	0.89
1:h:781:ILE:HD11	1:h:893:LEU:HD12	1.53	0.89
1:k:781:ILE:HD11	1:k:893:LEU:HD12	1.53	0.89
1:A:726:LEU:CD1	1:D:890:ALA:HB3	2.03	0.89
1:Y:723:PRO:HD3	1:e:807:GLU:H	1.35	0.89
1:Y:745:LYS:HD3	1:Y:771:VAL:HG13	1.51	0.89
1:b:723:PRO:HD3	1:h:807:GLU:H	1.36	0.89
1:h:725:ARG:CZ	1:n:808:ARG:HB2	2.02	0.89
1:D:725:ARG:CZ	1:J:808:ARG:HB2	2.02	0.89
1:D:726:LEU:CD1	1:G:890:ALA:HB3	2.03	0.89
1:D:721:LEU:CA	1:J:805:LEU:C	2.45	0.89
1:S:898:VAL:HG12	2:T:1033:GLN:HG3	1.55	0.89
1:P:725:ARG:CZ	1:V:808:ARG:HB2	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:915:LEU:CD2	2:T:1028:ASP:HB3	2.03	0.89
1:V:726:LEU:CD1	1:Y:890:ALA:HB3	2.03	0.89
1:Y:726:LEU:CD1	1:b:890:ALA:HB3	2.03	0.89
1:e:721:LEU:C	1:k:806:TRP:C	2.34	0.89
1:A:890:ALA:HB3	1:n:726:LEU:CD1	2.03	0.88
2:W:915:LEU:CD2	2:W:1028:ASP:HB3	2.03	0.88
1:Y:726:LEU:HD12	1:b:890:ALA:CB	2.03	0.88
2:f:915:LEU:CD2	2:f:1028:ASP:HB3	2.03	0.88
2:B:915:LEU:CD2	2:B:1028:ASP:HB3	2.03	0.88
1:G:726:LEU:CD1	1:J:890:ALA:HB3	2.03	0.88
1:V:725:ARG:CZ	1:b:808:ARG:HB2	2.02	0.88
1:V:726:LEU:HD12	1:Y:890:ALA:CB	2.03	0.88
1:Y:725:ARG:CZ	1:e:808:ARG:HB2	2.02	0.88
1:Y:726:LEU:HD12	1:b:890:ALA:O	1.72	0.88
1:b:726:LEU:HD12	1:e:890:ALA:CB	2.03	0.88
1:D:808:ARG:HB2	1:n:725:ARG:CZ	2.02	0.88
1:S:723:PRO:HD3	1:Y:807:GLU:H	1.35	0.88
1:S:726:LEU:CD1	1:V:890:ALA:HB3	2.03	0.88
1:Y:898:VAL:HG12	2:Z:1033:GLN:HG3	1.55	0.88
2:Z:915:LEU:CD2	2:Z:1028:ASP:HB3	2.03	0.88
1:b:726:LEU:CD1	1:e:890:ALA:HB3	2.03	0.88
2:i:915:LEU:CD2	2:i:1028:ASP:HB3	2.04	0.88
2:E:915:LEU:CD2	2:E:1028:ASP:HB3	2.03	0.88
1:G:726:LEU:HD12	1:J:890:ALA:CB	2.03	0.88
1:J:726:LEU:HD12	1:M:890:ALA:CB	2.03	0.88
2:l:915:LEU:CD2	2:l:1028:ASP:HB3	2.03	0.88
1:J:898:VAL:HG12	2:K:1033:GLN:HG3	1.55	0.88
1:S:726:LEU:HD12	1:V:890:ALA:CB	2.03	0.88
1:J:726:LEU:HD12	1:M:890:ALA:O	1.72	0.88
2:Q:915:LEU:CD2	2:Q:1028:ASP:HB3	2.03	0.88
1:Y:828:LEU:CD1	1:b:754:GLU:OE1	2.21	0.88
1:b:898:VAL:HG12	2:c:1033:GLN:HG3	1.55	0.88
1:e:725:ARG:CZ	1:k:808:ARG:HB2	2.02	0.88
1:e:726:LEU:HD12	1:h:890:ALA:CB	2.03	0.88
1:n:885:VAL:HG22	1:n:886:SER:H	1.39	0.88
1:D:726:LEU:HD12	1:G:890:ALA:CB	2.03	0.88
2:H:915:LEU:CD2	2:H:1028:ASP:HB3	2.03	0.88
1:J:809:ILE:CD1	1:J:820:ILE:HD13	2.04	0.88
1:M:809:ILE:CD1	1:M:820:ILE:HD13	2.04	0.88
1:M:885:VAL:HG22	1:M:886:SER:H	1.39	0.88
1:P:809:ILE:CD1	1:P:820:ILE:HD13	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:828:LEU:CD1	1:S:754:GLU:OE1	2.21	0.88
1:P:898:VAL:HG12	2:Q:1033:GLN:HG3	1.55	0.88
2:c:915:LEU:CD2	2:c:1028:ASP:HB3	2.03	0.88
1:e:726:LEU:CD1	1:h:890:ALA:HB3	2.03	0.88
2:o:915:LEU:CD2	2:o:1028:ASP:HB3	2.03	0.88
1:D:885:VAL:HG22	1:D:886:SER:H	1.39	0.88
1:G:809:ILE:CD1	1:G:820:ILE:HD13	2.04	0.88
1:J:726:LEU:CD1	1:M:890:ALA:HB3	2.03	0.88
1:M:726:LEU:HD12	1:P:890:ALA:CB	2.03	0.88
1:S:780:LEU:HD12	1:S:895:PHE:HB2	1.54	0.88
1:S:809:ILE:CD1	1:S:820:ILE:HD13	2.04	0.88
1:k:726:LEU:CD1	1:n:890:ALA:HB3	2.03	0.88
1:k:809:ILE:CD1	1:k:820:ILE:HD13	2.04	0.88
1:D:809:ILE:CD1	1:D:820:ILE:HD13	2.04	0.88
1:M:780:LEU:HD12	1:M:895:PHE:HB2	1.55	0.88
1:P:726:LEU:CD1	1:S:890:ALA:HB3	2.03	0.88
1:P:780:LEU:HD12	1:P:895:PHE:HB2	1.55	0.88
1:S:725:ARG:CZ	1:Y:808:ARG:HB2	2.02	0.88
1:S:885:VAL:HG22	1:S:886:SER:H	1.39	0.88
1:Y:721:LEU:CA	1:e:805:LEU:C	2.45	0.88
1:S:828:LEU:CD1	1:V:754:GLU:OE1	2.21	0.87
1:V:809:ILE:CD1	1:V:820:ILE:HD13	2.04	0.87
1:b:725:ARG:CZ	1:h:808:ARG:HB2	2.02	0.87
1:n:809:ILE:CD1	1:n:820:ILE:HD13	2.04	0.87
1:G:723:PRO:HD3	1:M:807:GLU:H	1.36	0.87
1:P:720:ASN:CA	1:V:805:LEU:HD23	1.74	0.87
1:V:828:LEU:CD1	1:Y:754:GLU:OE1	2.21	0.87
1:k:726:LEU:HD12	1:n:890:ALA:CB	2.03	0.87
1:A:809:ILE:CD1	1:A:820:ILE:HD13	2.04	0.87
1:M:726:LEU:CD1	1:P:890:ALA:HB3	2.03	0.87
1:M:898:VAL:HG12	2:N:1033:GLN:HG3	1.55	0.87
1:Y:809:ILE:CD1	1:Y:820:ILE:HD13	2.04	0.87
1:b:721:LEU:C	1:h:806:TRP:C	2.34	0.87
1:h:898:VAL:HG12	2:i:1033:GLN:HG3	1.55	0.87
1:A:890:ALA:CB	1:n:726:LEU:HD12	2.03	0.87
1:P:726:LEU:HD12	1:S:890:ALA:CB	2.03	0.87
1:V:725:ARG:NH2	1:b:808:ARG:CB	2.25	0.87
1:D:898:VAL:HG12	2:E:1033:GLN:HG3	1.55	0.87
1:J:780:LEU:HD12	1:J:895:PHE:HB2	1.55	0.87
1:V:780:LEU:HD12	1:V:895:PHE:HB2	1.55	0.87
1:Y:725:ARG:NH2	1:e:808:ARG:CB	2.25	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:726:LEU:HD12	1:k:890:ALA:CB	2.03	0.87
1:A:726:LEU:HD12	1:D:890:ALA:CB	2.03	0.87
2:K:915:LEU:CD2	2:K:1028:ASP:HB3	2.03	0.87
2:N:915:LEU:CD2	2:N:1028:ASP:HB3	2.04	0.87
1:h:809:ILE:CD1	1:h:820:ILE:HD13	2.04	0.87
1:b:809:ILE:CD1	1:b:820:ILE:HD13	2.04	0.87
1:P:723:PRO:HD3	1:V:807:GLU:H	1.36	0.87
1:P:725:ARG:NH2	1:V:808:ARG:CB	2.25	0.87
1:Y:780:LEU:HD12	1:Y:895:PHE:HB2	1.55	0.87
1:J:885:VAL:HG22	1:J:886:SER:H	1.39	0.87
1:b:885:VAL:HG22	1:b:886:SER:H	1.39	0.87
1:e:809:ILE:CD1	1:e:820:ILE:HD13	2.04	0.87
1:h:780:LEU:HD12	1:h:895:PHE:HB2	1.55	0.87
1:k:780:LEU:HD12	1:k:895:PHE:HB2	1.55	0.87
1:n:898:VAL:HG12	2:o:1033:GLN:HG3	1.55	0.87
1:G:780:LEU:HD12	1:G:895:PHE:HB2	1.55	0.86
1:S:725:ARG:NH2	1:Y:808:ARG:CB	2.25	0.86
1:e:898:VAL:HG12	2:f:1033:GLN:HG3	1.55	0.86
1:h:726:LEU:CD1	1:k:890:ALA:HB3	2.03	0.86
1:h:885:VAL:HG22	1:h:886:SER:H	1.39	0.86
1:n:780:LEU:HD12	1:n:895:PHE:HB2	1.54	0.86
1:D:780:LEU:HD12	1:D:895:PHE:HB2	1.55	0.86
1:D:811:ASN:CB	1:D:816:THR:HB	2.06	0.86
1:V:898:VAL:HG12	2:W:1033:GLN:HG3	1.55	0.86
1:b:780:LEU:HD12	1:b:895:PHE:HB2	1.55	0.86
1:b:828:LEU:CD1	1:e:754:GLU:OE1	2.21	0.86
1:e:780:LEU:HD12	1:e:895:PHE:HB2	1.55	0.86
1:e:811:ASN:CB	1:e:816:THR:HB	2.06	0.86
1:e:828:LEU:CD1	1:h:754:GLU:OE1	2.21	0.86
1:k:811:ASN:CB	1:k:816:THR:HB	2.06	0.86
1:J:828:LEU:CD1	1:M:754:GLU:OE1	2.21	0.86
1:P:757:THR:HG21	1:P:802:VAL:CB	2.06	0.86
1:h:801:ARG:CB	1:h:834:PRO:HA	2.05	0.86
1:k:801:ARG:CB	1:k:834:PRO:HA	2.05	0.86
1:A:780:LEU:HD12	1:A:895:PHE:HB2	1.55	0.86
1:J:811:ASN:CB	1:J:816:THR:HB	2.06	0.86
1:M:757:THR:HG21	1:M:802:VAL:CB	2.06	0.86
1:S:757:THR:HG21	1:S:802:VAL:CB	2.06	0.86
1:Y:885:VAL:HG22	1:Y:886:SER:H	1.39	0.86
1:e:771:VAL:CG1	1:e:781:ILE:HD12	2.06	0.86
1:M:828:LEU:CD1	1:P:754:GLU:OE1	2.21	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:771:VAL:CG1	1:Y:781:ILE:HD12	2.06	0.86
2:N:930:MET:CE	3:O:1053:VAL:HG13	2.06	0.86
1:P:721:LEU:CD2	1:V:805:LEU:CA	1.79	0.86
1:S:771:VAL:CG1	1:S:781:ILE:HD12	2.06	0.86
1:V:771:VAL:CG1	1:V:781:ILE:HD12	2.06	0.86
1:V:885:VAL:HG22	1:V:886:SER:H	1.39	0.86
1:b:721:LEU:CA	1:h:805:LEU:C	2.44	0.86
1:e:801:ARG:CB	1:e:834:PRO:HA	2.05	0.86
1:J:757:THR:HG21	1:J:802:VAL:CB	2.06	0.86
2:K:930:MET:CE	3:L:1053:VAL:HG13	2.06	0.86
2:Q:930:MET:CE	3:R:1053:VAL:HG13	2.06	0.86
1:V:757:THR:HG21	1:V:802:VAL:CB	2.06	0.86
1:h:828:LEU:CD1	1:k:754:GLU:OE1	2.21	0.86
1:n:811:ASN:CB	1:n:816:THR:HB	2.06	0.86
1:A:885:VAL:HG22	1:A:886:SER:H	1.39	0.86
1:P:811:ASN:CB	1:P:816:THR:HB	2.06	0.86
1:Y:757:THR:HG21	1:Y:802:VAL:CB	2.05	0.86
1:k:809:ILE:HD12	1:k:820:ILE:HG21	1.58	0.86
1:n:801:ARG:CB	1:n:834:PRO:HA	2.05	0.86
1:G:757:THR:HG21	1:G:802:VAL:CB	2.05	0.86
1:G:828:LEU:CD1	1:J:754:GLU:OE1	2.21	0.86
1:G:885:VAL:HG22	1:G:886:SER:H	1.39	0.86
1:V:811:ASN:CB	1:V:816:THR:HB	2.06	0.86
1:Y:811:ASN:CB	1:Y:816:THR:HB	2.06	0.86
1:b:809:ILE:HD12	1:b:820:ILE:HG21	1.58	0.86
1:b:811:ASN:CB	1:b:816:THR:HB	2.06	0.86
1:e:809:ILE:HD12	1:e:820:ILE:HG21	1.58	0.86
1:A:811:ASN:CB	1:A:816:THR:HB	2.06	0.85
1:A:822:SER:C	1:k:721:LEU:HD13	2.01	0.85
1:J:721:LEU:CD2	1:P:805:LEU:CB	2.24	0.85
1:b:801:ARG:CB	1:b:834:PRO:HA	2.05	0.85
1:h:809:ILE:HD12	1:h:820:ILE:HG21	1.58	0.85
1:P:771:VAL:CG1	1:P:781:ILE:HD12	2.06	0.85
1:S:721:LEU:HD13	1:Y:822:SER:C	2.02	0.85
1:S:899:TYR:CD1	2:T:1031:ARG:HG2	2.11	0.85
1:V:899:TYR:CD1	2:W:1031:ARG:HG2	2.11	0.85
1:b:771:VAL:CG1	1:b:781:ILE:HD12	2.06	0.85
2:l:930:MET:CE	3:m:1053:VAL:HG13	2.06	0.85
1:D:757:THR:HG21	1:D:802:VAL:CB	2.05	0.85
1:S:811:ASN:CB	1:S:816:THR:HB	2.06	0.85
2:T:930:MET:CE	3:U:1053:VAL:HG13	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:721:LEU:HD13	1:b:822:SER:C	2.02	0.85
1:Y:899:TYR:CD1	2:Z:1031:ARG:HG2	2.12	0.85
1:b:757:THR:HG21	1:b:802:VAL:CB	2.05	0.85
1:b:899:TYR:CD1	2:c:1031:ARG:HG2	2.11	0.85
1:e:899:TYR:CD1	2:f:1031:ARG:HG2	2.11	0.85
2:i:930:MET:CE	3:j:1053:VAL:HG13	2.06	0.85
1:k:885:VAL:HG22	1:k:886:SER:H	1.39	0.85
1:J:899:TYR:CD1	2:K:1031:ARG:HG2	2.11	0.85
1:M:811:ASN:CB	1:M:816:THR:HB	2.06	0.85
1:P:801:ARG:CB	1:P:834:PRO:HA	2.05	0.85
1:S:801:ARG:CB	1:S:834:PRO:HA	2.05	0.85
1:V:801:ARG:CB	1:V:834:PRO:HA	2.05	0.85
1:e:885:VAL:HG22	1:e:886:SER:H	1.39	0.85
1:h:721:LEU:HD13	1:n:822:SER:C	2.02	0.85
1:h:899:TYR:CD1	2:i:1031:ARG:HG2	2.11	0.85
1:k:899:TYR:CD1	2:l:1031:ARG:HG2	2.11	0.85
1:n:899:TYR:CD1	2:o:1031:ARG:HG2	2.11	0.85
2:o:930:MET:CE	3:p:1053:VAL:HG13	2.06	0.85
1:A:899:TYR:CD1	2:B:1031:ARG:HG2	2.11	0.85
1:G:898:VAL:HG12	2:H:1033:GLN:HG3	1.55	0.85
2:H:930:MET:CE	3:I:1053:VAL:HG13	2.06	0.85
2:H:930:MET:HE3	3:I:1053:VAL:HG13	1.58	0.85
1:P:899:TYR:CD1	2:Q:1031:ARG:HG2	2.11	0.85
1:n:809:ILE:HD12	1:n:820:ILE:HG21	1.58	0.85
1:A:809:ILE:HD12	1:A:820:ILE:HG21	1.58	0.85
2:B:930:MET:HE3	3:C:1053:VAL:HG13	1.58	0.85
1:G:811:ASN:CB	1:G:816:THR:HB	2.06	0.85
2:H:998:ARG:HD2	2:H:1000:ARG:NH2	1.92	0.85
1:M:721:LEU:HD13	1:S:822:SER:C	2.02	0.85
1:M:899:TYR:CD1	2:N:1031:ARG:HG2	2.11	0.85
1:P:721:LEU:HD13	1:V:822:SER:C	2.01	0.85
1:A:757:THR:HG21	1:A:802:VAL:CB	2.06	0.85
1:A:801:ARG:CB	1:A:834:PRO:HA	2.05	0.85
2:E:998:ARG:HD2	2:E:1000:ARG:NH2	1.92	0.85
1:G:899:TYR:CD1	2:H:1031:ARG:HG2	2.11	0.85
1:Y:801:ARG:CB	1:Y:834:PRO:HA	2.05	0.85
1:e:721:LEU:HD13	1:k:822:SER:C	2.02	0.85
1:h:767:VAL:CG2	1:h:785:SER:HB2	2.07	0.85
1:h:771:VAL:CG1	1:h:781:ILE:HD12	2.06	0.85
1:h:811:ASN:CB	1:h:816:THR:HB	2.06	0.85
1:k:757:THR:HG21	1:k:802:VAL:CB	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:757:THR:HG21	1:n:802:VAL:CB	2.06	0.85
1:A:721:LEU:HD13	1:G:822:SER:C	2.02	0.85
2:B:998:ARG:HD2	2:B:1000:ARG:NH2	1.92	0.85
1:D:809:ILE:HD12	1:D:820:ILE:HG21	1.58	0.85
1:D:899:TYR:CD1	2:E:1031:ARG:HG2	2.12	0.85
1:G:721:LEU:HD13	1:M:822:SER:C	2.02	0.85
2:K:998:ARG:HD2	2:K:1000:ARG:NH2	1.92	0.85
1:M:801:ARG:CB	1:M:834:PRO:HA	2.05	0.85
2:W:1022:THR:HG22	2:W:1024:THR:H	1.42	0.85
1:e:767:VAL:CG2	1:e:785:SER:HB2	2.07	0.85
1:A:805:LEU:CA	1:k:721:LEU:CD2	1.79	0.85
2:B:1022:THR:HG22	2:B:1024:THR:H	1.42	0.85
2:E:930:MET:HE3	3:F:1053:VAL:HG13	1.58	0.85
1:M:807:GLU:O	1:M:820:ILE:HG12	1.77	0.85
2:Q:1022:THR:HG22	2:Q:1024:THR:H	1.42	0.85
2:T:998:ARG:HD2	2:T:1000:ARG:NH2	1.92	0.85
1:V:809:ILE:HD12	1:V:820:ILE:HG21	1.58	0.85
2:Z:998:ARG:HD2	2:Z:1000:ARG:NH2	1.92	0.85
1:e:757:THR:HG21	1:e:802:VAL:CB	2.06	0.85
2:f:930:MET:CE	3:g:1053:VAL:HG13	2.06	0.85
1:h:757:THR:HG21	1:h:802:VAL:CB	2.06	0.85
1:k:898:VAL:HG12	2:l:1033:GLN:HG3	1.55	0.85
2:K:930:MET:HE3	3:L:1053:VAL:HG13	1.58	0.85
1:M:771:VAL:CG1	1:M:781:ILE:HD12	2.06	0.85
1:Y:721:LEU:HD13	1:e:822:SER:C	2.02	0.85
1:h:721:LEU:CD2	1:n:805:LEU:CA	1.79	0.85
2:l:1022:THR:HG22	2:l:1024:THR:H	1.42	0.85
2:B:930:MET:CE	3:C:1053:VAL:HG13	2.06	0.84
1:G:725:ARG:HH12	1:M:808:ARG:HG3	1.02	0.84
1:G:767:VAL:CG2	1:G:785:SER:HB2	2.07	0.84
1:G:842:TRP:CZ2	1:G:846:ARG:HB3	2.12	0.84
2:W:930:MET:CE	3:X:1053:VAL:HG13	2.06	0.84
1:Y:809:ILE:HD12	1:Y:820:ILE:HG21	1.58	0.84
1:h:807:GLU:O	1:h:820:ILE:HG12	1.77	0.84
1:k:842:TRP:CZ2	1:k:846:ARG:HB3	2.13	0.84
1:n:771:VAL:CG1	1:n:781:ILE:HD12	2.06	0.84
1:n:807:GLU:O	1:n:820:ILE:HG12	1.77	0.84
1:A:754:GLU:OE1	1:n:828:LEU:CD1	2.21	0.84
1:A:771:VAL:CG1	1:A:781:ILE:HD12	2.06	0.84
1:A:828:LEU:CD1	1:D:754:GLU:OE1	2.21	0.84
2:H:1022:THR:HG22	2:H:1024:THR:H	1.42	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:725:ARG:HH12	1:Y:808:ARG:HG3	1.02	0.84
1:V:725:ARG:HH12	1:b:808:ARG:HG3	1.02	0.84
2:W:930:MET:HE3	3:X:1053:VAL:HG13	1.58	0.84
1:b:767:VAL:CG2	1:b:785:SER:HB2	2.07	0.84
2:c:998:ARG:HD2	2:c:1000:ARG:NH2	1.92	0.84
1:A:898:VAL:HG12	2:B:1033:GLN:HG3	1.55	0.84
1:D:767:VAL:CG2	1:D:785:SER:HB2	2.07	0.84
1:G:771:VAL:CG1	1:G:781:ILE:HD12	2.06	0.84
1:G:807:GLU:O	1:G:820:ILE:HG12	1.77	0.84
2:N:998:ARG:HD2	2:N:1000:ARG:NH2	1.92	0.84
1:P:885:VAL:HG22	1:P:886:SER:H	1.39	0.84
1:V:767:VAL:CG2	1:V:785:SER:HB2	2.07	0.84
1:b:807:GLU:O	1:b:820:ILE:HG12	1.77	0.84
1:b:842:TRP:CZ2	1:b:846:ARG:HB3	2.12	0.84
2:c:1022:THR:HG22	2:c:1024:THR:H	1.42	0.84
1:e:807:GLU:O	1:e:820:ILE:HG12	1.77	0.84
1:k:767:VAL:CG2	1:k:785:SER:HB2	2.07	0.84
2:o:998:ARG:HD2	2:o:1000:ARG:NH2	1.92	0.84
2:E:930:MET:CE	3:F:1053:VAL:HG13	2.06	0.84
1:J:771:VAL:CG1	1:J:781:ILE:HD12	2.06	0.84
2:K:1022:THR:HG22	2:K:1024:THR:H	1.42	0.84
1:Y:807:GLU:O	1:Y:820:ILE:HG12	1.77	0.84
2:f:930:MET:HE3	3:g:1053:VAL:HG13	1.58	0.84
1:k:807:GLU:O	1:k:820:ILE:HG12	1.77	0.84
1:A:842:TRP:CZ2	1:A:846:ARG:HB3	2.12	0.84
1:D:721:LEU:HD13	1:J:822:SER:C	2.02	0.84
1:D:801:ARG:CB	1:D:834:PRO:HA	2.05	0.84
1:J:801:ARG:CB	1:J:834:PRO:HA	2.05	0.84
1:P:842:TRP:CZ2	1:P:846:ARG:HB3	2.13	0.84
2:Q:998:ARG:HD2	2:Q:1000:ARG:NH2	1.92	0.84
1:S:807:GLU:O	1:S:820:ILE:HG12	1.77	0.84
1:V:807:GLU:O	1:V:820:ILE:HG12	1.77	0.84
1:Y:767:VAL:CG2	1:Y:785:SER:HB2	2.07	0.84
1:Y:842:TRP:CZ2	1:Y:846:ARG:HB3	2.13	0.84
2:Z:930:MET:CE	3:a:1053:VAL:HG13	2.06	0.84
1:e:842:TRP:CZ2	1:e:846:ARG:HB3	2.13	0.84
1:k:771:VAL:CG1	1:k:781:ILE:HD12	2.06	0.84
2:l:930:MET:HE3	3:m:1053:VAL:HG13	1.58	0.84
2:l:998:ARG:HD2	2:l:1000:ARG:NH2	1.92	0.84
1:D:842:TRP:CZ2	1:D:846:ARG:HB3	2.13	0.84
1:J:721:LEU:CD2	1:P:805:LEU:CA	1.79	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:721:LEU:HD13	1:P:822:SER:C	2.02	0.84
1:P:807:GLU:O	1:P:820:ILE:HG12	1.77	0.84
1:S:767:VAL:CG2	1:S:785:SER:HB2	2.07	0.84
1:b:721:LEU:HD13	1:h:822:SER:C	2.02	0.84
2:c:930:MET:CE	3:d:1053:VAL:HG13	2.06	0.84
2:f:1022:THR:HG22	2:f:1024:THR:H	1.42	0.84
1:D:725:ARG:HH12	1:J:808:ARG:HG3	1.02	0.84
1:D:771:VAL:CG1	1:D:781:ILE:HD12	2.06	0.84
1:G:809:ILE:HD12	1:G:820:ILE:HG21	1.58	0.84
1:J:725:ARG:HH12	1:P:808:ARG:HG3	1.02	0.84
1:J:767:VAL:CG2	1:J:785:SER:HB2	2.07	0.84
2:N:930:MET:HE3	3:O:1053:VAL:HG13	1.58	0.84
1:V:842:TRP:CZ2	1:V:846:ARG:HB3	2.12	0.84
2:Z:930:MET:HE3	3:a:1053:VAL:HG13	1.58	0.84
2:f:998:ARG:HD2	2:f:1000:ARG:NH2	1.92	0.84
2:i:998:ARG:HD2	2:i:1000:ARG:NH2	1.92	0.84
2:i:1022:THR:HG22	2:i:1024:THR:H	1.42	0.84
1:D:807:GLU:O	1:D:820:ILE:HG12	1.77	0.84
2:E:1022:THR:HG22	2:E:1024:THR:H	1.42	0.84
1:G:801:ARG:CB	1:G:834:PRO:HA	2.05	0.84
1:S:809:ILE:HD12	1:S:820:ILE:HG21	1.58	0.84
1:S:842:TRP:CZ2	1:S:846:ARG:HB3	2.13	0.84
2:i:930:MET:HE3	3:j:1053:VAL:HG13	1.58	0.84
1:n:767:VAL:CG2	1:n:785:SER:HB2	2.07	0.84
1:J:809:ILE:HD12	1:J:820:ILE:HG21	1.58	0.84
2:Q:930:MET:HE3	3:R:1053:VAL:HG13	1.58	0.84
2:T:930:MET:HE3	3:U:1053:VAL:HG13	1.58	0.84
1:k:828:LEU:CD1	1:n:754:GLU:OE1	2.21	0.84
2:o:1022:THR:HG22	2:o:1024:THR:H	1.42	0.84
1:D:780:LEU:CD1	1:D:895:PHE:HB2	2.08	0.84
1:D:822:SER:C	1:n:721:LEU:HD13	2.02	0.84
1:J:842:TRP:CZ2	1:J:846:ARG:HB3	2.13	0.84
2:N:1022:THR:HG22	2:N:1024:THR:H	1.42	0.84
1:P:809:ILE:HD12	1:P:820:ILE:HG21	1.58	0.84
1:h:780:LEU:CD1	1:h:895:PHE:HB2	2.08	0.84
1:h:842:TRP:CZ2	1:h:846:ARG:HB3	2.13	0.84
1:n:842:TRP:CZ2	1:n:846:ARG:HB3	2.13	0.84
2:o:930:MET:HE3	3:p:1053:VAL:HG13	1.58	0.84
1:A:780:LEU:CD1	1:A:895:PHE:HB2	2.08	0.83
1:D:828:LEU:CD1	1:G:754:GLU:OE1	2.21	0.83
1:G:780:LEU:CD1	1:G:895:PHE:HB2	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:721:LEU:CD2	1:b:805:LEU:CA	1.79	0.83
1:A:771:VAL:HG11	1:A:781:ILE:HD12	1.61	0.83
1:A:807:GLU:O	1:A:820:ILE:HG12	1.77	0.83
2:B:1024:THR:HG22	2:B:1025:ALA:H	1.44	0.83
1:D:809:ILE:HD11	1:D:820:ILE:HD13	1.60	0.83
1:P:767:VAL:CG2	1:P:785:SER:HB2	2.07	0.83
2:T:1022:THR:HG22	2:T:1024:THR:H	1.42	0.83
2:W:998:ARG:HD2	2:W:1000:ARG:NH2	1.92	0.83
1:Y:809:ILE:HD11	1:Y:820:ILE:HD13	1.60	0.83
2:Z:1022:THR:HG22	2:Z:1024:THR:H	1.42	0.83
2:Z:1024:THR:HG22	2:Z:1025:ALA:H	1.44	0.83
2:f:1024:THR:HG22	2:f:1025:ALA:H	1.44	0.83
2:l:1024:THR:HG22	2:l:1025:ALA:H	1.44	0.83
1:A:767:VAL:CG2	1:A:785:SER:HB2	2.07	0.83
1:A:809:ILE:HD11	1:A:820:ILE:HD13	1.60	0.83
1:J:780:LEU:CD1	1:J:895:PHE:HB2	2.08	0.83
1:V:809:ILE:HD11	1:V:820:ILE:HD13	1.60	0.83
1:Y:725:ARG:HH12	1:e:808:ARG:HG3	1.02	0.83
1:b:809:ILE:HD11	1:b:820:ILE:HD13	1.60	0.83
1:e:809:ILE:HD11	1:e:820:ILE:HD13	1.60	0.83
1:n:780:LEU:CD1	1:n:895:PHE:HB2	2.08	0.83
1:G:809:ILE:HD11	1:G:820:ILE:HD13	1.60	0.83
1:J:809:ILE:HD11	1:J:820:ILE:HD13	1.60	0.83
1:M:809:ILE:HD11	1:M:820:ILE:HD13	1.60	0.83
1:M:780:LEU:CD1	1:M:895:PHE:HB2	2.08	0.83
1:M:809:ILE:HD12	1:M:820:ILE:HG21	1.58	0.83
1:P:809:ILE:HD11	1:P:820:ILE:HD13	1.60	0.83
1:b:771:VAL:HG11	1:b:781:ILE:HD12	1.61	0.83
2:c:930:MET:HE3	3:d:1053:VAL:HG13	1.58	0.83
1:e:771:VAL:HG11	1:e:781:ILE:HD12	1.61	0.83
1:h:809:ILE:HD11	1:h:820:ILE:HD13	1.60	0.83
1:D:771:VAL:HG11	1:D:781:ILE:HD12	1.61	0.83
1:J:807:GLU:O	1:J:820:ILE:HG12	1.77	0.83
1:S:809:ILE:HD11	1:S:820:ILE:HD13	1.60	0.83
1:n:809:ILE:HD11	1:n:820:ILE:HD13	1.60	0.83
2:Q:1024:THR:HG22	2:Q:1025:ALA:H	1.44	0.83
1:h:726:LEU:HD22	1:k:891:ARG:NH2	1.93	0.83
1:k:780:LEU:CD1	1:k:895:PHE:HB2	2.08	0.83
1:k:809:ILE:HD11	1:k:820:ILE:HD13	1.60	0.83
2:K:1024:THR:HG22	2:K:1025:ALA:H	1.44	0.83
1:M:726:LEU:HD22	1:P:891:ARG:NH2	1.93	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:767:VAL:CG2	1:M:785:SER:HB2	2.07	0.83
1:M:842:TRP:CZ2	1:M:846:ARG:HB3	2.13	0.83
1:P:726:LEU:HD22	1:S:891:ARG:NH2	1.93	0.83
1:e:726:LEU:HD22	1:h:891:ARG:NH2	1.93	0.83
1:k:726:LEU:HD22	1:n:891:ARG:NH2	1.93	0.83
1:n:771:VAL:HG11	1:n:781:ILE:HD12	1.61	0.83
1:S:726:LEU:HD22	1:V:891:ARG:NH2	1.93	0.83
1:D:720:ASN:N	1:J:805:LEU:CD2	2.42	0.83
2:H:1024:THR:HG22	2:H:1025:ALA:H	1.44	0.83
1:A:891:ARG:NH2	1:n:726:LEU:HD22	1.93	0.82
1:J:726:LEU:HD22	1:M:891:ARG:NH2	1.93	0.82
1:P:780:LEU:CD1	1:P:895:PHE:HB2	2.08	0.82
2:T:1024:THR:HG22	2:T:1025:ALA:H	1.44	0.82
1:Y:771:VAL:HG11	1:Y:781:ILE:HD12	1.61	0.82
1:b:720:ASN:N	1:h:805:LEU:CD2	2.42	0.82
1:A:720:ASN:N	1:G:805:LEU:CD2	2.42	0.82
1:G:720:ASN:N	1:M:805:LEU:CD2	2.42	0.82
1:V:726:LEU:HD22	1:Y:891:ARG:NH2	1.93	0.82
1:b:726:LEU:HD22	1:e:891:ARG:NH2	1.93	0.82
1:e:720:ASN:N	1:k:805:LEU:CD2	2.42	0.82
1:h:726:LEU:CG	1:k:891:ARG:HH12	1.93	0.82
1:k:726:LEU:CG	1:n:891:ARG:HH12	1.93	0.82
1:h:844:ARG:HG2	1:h:873:ILE:HG12	1.61	0.82
1:A:805:LEU:CD2	1:k:720:ASN:N	2.42	0.82
1:P:720:ASN:N	1:V:805:LEU:CD2	2.42	0.82
1:h:771:VAL:HG11	1:h:781:ILE:HD12	1.61	0.82
1:P:721:LEU:CD2	1:V:805:LEU:CB	2.24	0.82
1:Y:721:LEU:CD2	1:e:805:LEU:CA	1.79	0.82
1:A:726:LEU:HD22	1:D:891:ARG:NH2	1.93	0.82
1:A:891:ARG:HH12	1:n:726:LEU:CG	1.93	0.82
1:G:726:LEU:HD22	1:J:891:ARG:NH2	1.93	0.82
1:M:725:ARG:HH12	1:S:808:ARG:HG3	1.02	0.82
1:S:726:LEU:CG	1:V:891:ARG:HH12	1.93	0.82
1:Y:720:ASN:N	1:e:805:LEU:CD2	2.42	0.82
1:e:726:LEU:CG	1:h:891:ARG:HH12	1.93	0.82
1:A:787:VAL:HG22	1:A:809:ILE:HG12	1.61	0.82
1:D:805:LEU:CD2	1:n:720:ASN:N	2.42	0.82
2:E:1022:THR:HG21	2:E:1025:ALA:O	1.80	0.82
1:G:721:LEU:HA	1:M:805:LEU:O	1.80	0.82
1:J:721:LEU:HA	1:P:805:LEU:O	1.80	0.82
1:S:780:LEU:CD1	1:S:895:PHE:HB2	2.08	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:726:LEU:CG	1:Y:891:ARG:HH12	1.93	0.82
1:b:725:ARG:HH12	1:h:808:ARG:HG3	1.02	0.82
1:k:844:ARG:HG2	1:k:873:ILE:HG12	1.61	0.82
1:D:721:LEU:HA	1:J:805:LEU:O	1.80	0.82
1:G:726:LEU:CG	1:J:891:ARG:HH12	1.93	0.82
1:G:771:VAL:HG11	1:G:781:ILE:HD12	1.61	0.82
1:V:720:ASN:N	1:b:805:LEU:CD2	2.42	0.82
1:V:771:VAL:HG11	1:V:781:ILE:HD12	1.61	0.82
2:W:1024:THR:HG22	2:W:1025:ALA:H	1.44	0.82
1:e:780:LEU:CD1	1:e:895:PHE:HB2	2.08	0.82
2:f:1022:THR:HG21	2:f:1025:ALA:O	1.80	0.82
1:h:720:ASN:N	1:n:805:LEU:CD2	2.42	0.82
2:i:1022:THR:HG21	2:i:1025:ALA:O	1.80	0.82
1:n:787:VAL:HG22	1:n:809:ILE:HG12	1.61	0.82
2:B:1022:THR:HG21	2:B:1025:ALA:O	1.80	0.82
1:D:787:VAL:HG22	1:D:809:ILE:HG12	1.61	0.82
1:G:787:VAL:HG22	1:G:809:ILE:HG12	1.61	0.82
1:M:721:LEU:HA	1:S:805:LEU:O	1.80	0.82
1:S:720:ASN:N	1:Y:805:LEU:CD2	2.42	0.82
1:Y:726:LEU:HD22	1:b:891:ARG:NH2	1.93	0.82
1:D:844:ARG:HG2	1:D:873:ILE:HG12	1.61	0.82
2:E:1024:THR:HG22	2:E:1025:ALA:H	1.44	0.82
1:J:720:ASN:N	1:P:805:LEU:CD2	2.42	0.82
1:J:726:LEU:CG	1:M:891:ARG:HH12	1.93	0.82
1:V:808:ARG:HG2	1:V:819:ASN:HA	1.62	0.82
1:M:720:ASN:N	1:S:805:LEU:CD2	2.42	0.81
1:S:808:ARG:HG2	1:S:819:ASN:HA	1.62	0.81
1:e:844:ARG:HG2	1:e:873:ILE:HG12	1.61	0.81
1:D:726:LEU:HD22	1:G:891:ARG:NH2	1.93	0.81
2:H:999:ILE:CD1	2:H:1008:VAL:HG23	2.10	0.81
1:P:721:LEU:HA	1:V:805:LEU:O	1.80	0.81
1:b:780:LEU:CD1	1:b:895:PHE:HB2	2.08	0.81
1:k:787:VAL:HG22	1:k:809:ILE:HG12	1.61	0.81
1:A:721:LEU:HA	1:G:805:LEU:O	1.80	0.81
1:D:726:LEU:CG	1:G:891:ARG:HH12	1.93	0.81
2:E:999:ILE:CD1	2:E:1008:VAL:HG23	2.11	0.81
2:K:999:ILE:CD1	2:K:1008:VAL:HG23	2.10	0.81
2:N:999:ILE:CD1	2:N:1008:VAL:HG23	2.10	0.81
1:P:726:LEU:CG	1:S:891:ARG:HH12	1.93	0.81
1:P:771:VAL:HG11	1:P:781:ILE:HD12	1.61	0.81
1:P:808:ARG:HG2	1:P:819:ASN:HA	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:1022:THR:HG21	2:Q:1025:ALA:O	1.80	0.81
1:S:771:VAL:HG11	1:S:781:ILE:HD12	1.61	0.81
2:T:1022:THR:HG21	2:T:1025:ALA:O	1.80	0.81
1:Y:726:LEU:CG	1:b:891:ARG:HH12	1.93	0.81
1:Y:780:LEU:CD1	1:Y:895:PHE:HB2	2.08	0.81
1:Y:808:ARG:HG2	1:Y:819:ASN:HA	1.62	0.81
1:b:726:LEU:CG	1:e:891:ARG:HH12	1.93	0.81
1:k:771:VAL:HG11	1:k:781:ILE:HD12	1.61	0.81
1:A:844:ARG:HG2	1:A:873:ILE:HG12	1.61	0.81
1:G:844:ARG:HG2	1:G:873:ILE:HG12	1.61	0.81
1:M:771:VAL:HG11	1:M:781:ILE:HD12	1.61	0.81
1:M:808:ARG:HG2	1:M:819:ASN:HA	1.62	0.81
1:S:721:LEU:CD2	1:Y:805:LEU:CA	1.79	0.81
1:V:780:LEU:CD1	1:V:895:PHE:HB2	2.08	0.81
1:h:787:VAL:HG22	1:h:809:ILE:HG12	1.61	0.81
1:A:726:LEU:CG	1:D:891:ARG:HH12	1.93	0.81
1:J:808:ARG:HG2	1:J:819:ASN:HA	1.62	0.81
2:Q:999:ILE:CD1	2:Q:1008:VAL:HG23	2.10	0.81
1:S:721:LEU:HA	1:Y:805:LEU:O	1.80	0.81
1:V:833:ILE:HD13	1:V:885:VAL:HG21	1.62	0.81
2:W:1022:THR:HG21	2:W:1025:ALA:O	1.80	0.81
1:Y:833:ILE:HD13	1:Y:885:VAL:HG21	1.62	0.81
2:o:1024:THR:HG22	2:o:1025:ALA:H	1.44	0.81
2:B:999:ILE:CD1	2:B:1008:VAL:HG23	2.11	0.81
1:D:805:LEU:CA	1:n:721:LEU:CD2	1.79	0.81
2:H:1022:THR:HG21	2:H:1025:ALA:O	1.80	0.81
2:N:1022:THR:HG21	2:N:1025:ALA:O	1.80	0.81
1:S:787:VAL:HG22	1:S:809:ILE:HG12	1.61	0.81
2:f:936:MET:HE1	2:f:1004:LYS:HB3	1.63	0.81
1:D:805:LEU:O	1:n:721:LEU:HA	1.80	0.81
1:G:808:ARG:HG2	1:G:819:ASN:HA	1.62	0.81
1:J:787:VAL:HG22	1:J:809:ILE:HG12	1.61	0.81
1:V:787:VAL:HG22	1:V:809:ILE:HG12	1.61	0.81
2:c:1024:THR:HG22	2:c:1025:ALA:H	1.44	0.81
1:e:721:LEU:HA	1:k:805:LEU:O	1.80	0.81
2:i:936:MET:HE1	2:i:1004:LYS:HB3	1.63	0.81
2:i:1024:THR:HG22	2:i:1025:ALA:H	1.44	0.81
1:A:902:ALA:HA	2:B:1029:VAL:HG13	1.63	0.81
1:M:901:LEU:HD12	2:N:912:THR:HB	1.63	0.81
1:P:901:LEU:HD12	2:Q:912:THR:HB	1.63	0.81
1:S:833:ILE:HD13	1:S:885:VAL:HG21	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:898:VAL:CG1	2:T:1033:GLN:HG3	2.11	0.81
1:b:833:ILE:HD13	1:b:885:VAL:HG21	1.62	0.81
2:c:1022:THR:HG21	2:c:1025:ALA:O	1.80	0.81
1:e:725:ARG:HH12	1:k:808:ARG:HG3	1.02	0.81
2:l:1022:THR:HG21	2:l:1025:ALA:O	1.80	0.81
1:n:902:ALA:HA	2:o:1029:VAL:HG13	1.63	0.81
1:J:771:VAL:HG11	1:J:781:ILE:HD12	1.61	0.81
1:J:851:ILE:HA	1:J:854:PHE:CD2	2.16	0.81
1:J:901:LEU:HD12	2:K:912:THR:HB	1.63	0.81
1:S:844:ARG:HG2	1:S:873:ILE:HG12	1.61	0.81
1:S:901:LEU:HD12	2:T:912:THR:HB	1.63	0.81
2:T:999:ILE:CD1	2:T:1008:VAL:HG23	2.11	0.81
1:Y:851:ILE:HA	1:Y:854:PHE:CD2	2.16	0.81
1:Y:902:ALA:HA	2:Z:1029:VAL:HG13	1.63	0.81
1:b:808:ARG:HG2	1:b:819:ASN:HA	1.62	0.81
1:n:844:ARG:HG2	1:n:873:ILE:HG12	1.61	0.81
2:B:975:LEU:HD13	1:D:752:GLY:O	1.81	0.81
1:M:726:LEU:CG	1:P:891:ARG:HH12	1.93	0.81
1:M:851:ILE:HA	1:M:854:PHE:CD2	2.16	0.81
1:S:851:ILE:HA	1:S:854:PHE:CD2	2.16	0.81
2:Z:936:MET:HE1	2:Z:1004:LYS:HB3	1.63	0.81
1:b:902:ALA:HA	2:c:1029:VAL:HG13	1.63	0.81
2:c:936:MET:HE1	2:c:1004:LYS:HB3	1.63	0.81
1:h:721:LEU:HA	1:n:805:LEU:O	1.80	0.81
1:k:851:ILE:HA	1:k:854:PHE:CD2	2.16	0.81
2:o:936:MET:HE1	2:o:1004:LYS:HB3	1.63	0.81
2:o:999:ILE:CD1	2:o:1008:VAL:HG23	2.11	0.81
1:D:901:LEU:HD12	2:E:912:THR:HB	1.63	0.80
1:G:757:THR:HG21	1:G:802:VAL:CG2	2.11	0.80
1:J:898:VAL:CG1	2:K:1033:GLN:HG3	2.11	0.80
1:M:844:ARG:HG2	1:M:873:ILE:HG12	1.61	0.80
1:V:721:LEU:HA	1:b:805:LEU:O	1.80	0.80
1:e:787:VAL:HG22	1:e:809:ILE:HG12	1.61	0.80
1:h:851:ILE:HA	1:h:854:PHE:CD2	2.16	0.80
2:l:936:MET:HE1	2:l:1004:LYS:HB3	1.63	0.80
1:A:757:THR:HG21	1:A:802:VAL:CG2	2.11	0.80
1:A:805:LEU:O	1:k:721:LEU:HA	1.80	0.80
1:A:901:LEU:HD12	2:B:912:THR:HB	1.63	0.80
1:D:902:ALA:HA	2:E:1029:VAL:HG13	1.63	0.80
1:P:787:VAL:HG22	1:P:809:ILE:HG12	1.61	0.80
2:W:936:MET:HE1	2:W:1004:LYS:HB3	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:898:VAL:CG1	2:c:1033:GLN:HG3	2.11	0.80
1:e:851:ILE:HA	1:e:854:PHE:CD2	2.16	0.80
1:h:757:THR:HG21	1:h:802:VAL:CG2	2.11	0.80
2:o:1022:THR:HG21	2:o:1025:ALA:O	1.80	0.80
1:A:898:VAL:CG1	2:B:1033:GLN:HG3	2.11	0.80
1:D:808:ARG:HG2	1:D:819:ASN:HA	1.62	0.80
1:D:833:ILE:HD13	1:D:885:VAL:HG21	1.62	0.80
1:G:851:ILE:HA	1:G:854:PHE:CD2	2.16	0.80
1:G:901:LEU:HD12	2:H:912:THR:HB	1.63	0.80
1:M:787:VAL:HG22	1:M:809:ILE:HG12	1.61	0.80
1:M:898:VAL:CG1	2:N:1033:GLN:HG3	2.11	0.80
2:Q:975:LEU:HD13	1:S:752:GLY:O	1.81	0.80
2:T:975:LEU:HD13	1:V:752:GLY:O	1.81	0.80
2:W:999:ILE:CD1	2:W:1008:VAL:HG23	2.11	0.80
2:Z:1022:THR:HG21	2:Z:1025:ALA:O	1.80	0.80
1:e:757:THR:HG21	1:e:802:VAL:CG2	2.11	0.80
1:e:833:ILE:HD13	1:e:885:VAL:HG21	1.62	0.80
1:h:898:VAL:CG1	2:i:1033:GLN:HG3	2.11	0.80
1:n:757:THR:HG21	1:n:802:VAL:CG2	2.11	0.80
1:A:833:ILE:HD13	1:A:885:VAL:HG21	1.62	0.80
2:E:975:LEU:HD13	1:G:752:GLY:O	1.81	0.80
1:G:833:ILE:HD13	1:G:885:VAL:HG21	1.62	0.80
1:J:844:ARG:HG2	1:J:873:ILE:HG12	1.61	0.80
2:K:1022:THR:HG21	2:K:1025:ALA:O	1.80	0.80
2:N:975:LEU:HD13	1:P:752:GLY:O	1.81	0.80
1:P:833:ILE:HD13	1:P:885:VAL:HG21	1.62	0.80
1:V:901:LEU:HD12	2:W:912:THR:HB	1.63	0.80
2:W:975:LEU:HD13	1:Y:752:GLY:O	1.81	0.80
1:Y:787:VAL:HG22	1:Y:809:ILE:HG12	1.61	0.80
1:b:721:LEU:HA	1:h:805:LEU:O	1.80	0.80
1:b:787:VAL:HG22	1:b:809:ILE:HG12	1.61	0.80
1:e:898:VAL:CG1	2:f:1033:GLN:HG3	2.11	0.80
2:i:975:LEU:HD13	1:k:752:GLY:O	1.81	0.80
2:l:999:ILE:CD1	2:l:1008:VAL:HG23	2.10	0.80
1:A:721:LEU:HD22	1:G:822:SER:O	1.82	0.80
1:P:898:VAL:CG1	2:Q:1033:GLN:HG3	2.11	0.80
1:Y:721:LEU:HA	1:e:805:LEU:O	1.80	0.80
1:k:757:THR:HG21	1:k:802:VAL:CG2	2.11	0.80
2:B:936:MET:HE1	2:B:1004:LYS:HB3	1.63	0.80
1:J:804:VAL:HG21	1:J:833:ILE:HG13	1.64	0.80
2:N:1024:THR:HG22	2:N:1025:ALA:H	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:851:ILE:HA	1:P:854:PHE:CD2	2.16	0.80
2:T:936:MET:HE1	2:T:1004:LYS:HB3	1.63	0.80
1:Y:898:VAL:CG1	2:Z:1033:GLN:HG3	2.11	0.80
2:Z:975:LEU:HD13	1:b:752:GLY:O	1.81	0.80
1:b:844:ARG:HG2	1:b:873:ILE:HG12	1.61	0.80
2:f:975:LEU:HD13	1:h:752:GLY:O	1.81	0.80
1:h:725:ARG:HH12	1:n:808:ARG:HG3	1.02	0.80
1:n:851:ILE:HA	1:n:854:PHE:CD2	2.16	0.80
1:n:898:VAL:CG1	2:o:1033:GLN:HG3	2.11	0.80
1:n:901:LEU:HD12	2:o:912:THR:HB	1.63	0.80
1:J:721:LEU:HD22	1:P:822:SER:O	1.82	0.80
1:J:757:THR:HG21	1:J:802:VAL:CG2	2.11	0.80
2:K:975:LEU:HD13	1:M:752:GLY:O	1.81	0.80
1:P:721:LEU:HD22	1:V:822:SER:O	1.82	0.80
1:V:902:ALA:HA	2:W:1029:VAL:HG13	1.63	0.80
1:e:808:ARG:HG2	1:e:819:ASN:HA	1.62	0.80
2:i:999:ILE:CD1	2:i:1008:VAL:HG23	2.10	0.80
1:A:808:ARG:HG2	1:A:819:ASN:HA	1.62	0.80
1:D:804:VAL:HG21	1:D:833:ILE:HG13	1.64	0.80
1:G:804:VAL:HG21	1:G:833:ILE:HG13	1.64	0.80
1:M:804:VAL:HG21	1:M:833:ILE:HG13	1.64	0.80
1:S:721:LEU:HD22	1:Y:822:SER:O	1.82	0.80
1:b:851:ILE:HA	1:b:854:PHE:CD2	2.16	0.80
1:e:902:ALA:HA	2:f:1029:VAL:HG13	1.63	0.80
1:k:902:ALA:HA	2:l:1029:VAL:HG13	1.63	0.80
1:n:833:ILE:HD13	1:n:885:VAL:HG21	1.62	0.80
1:A:752:GLY:O	2:o:975:LEU:HD13	1.81	0.80
1:A:822:SER:O	1:k:721:LEU:HD22	1.82	0.80
1:G:902:ALA:HA	2:H:1029:VAL:HG13	1.63	0.80
1:J:833:ILE:HD13	1:J:885:VAL:HG21	1.62	0.80
1:V:851:ILE:HA	1:V:854:PHE:CD2	2.16	0.80
1:e:801:ARG:HB2	1:e:834:PRO:HA	1.64	0.80
1:A:767:VAL:HG21	1:A:785:SER:HB2	1.64	0.80
1:A:808:ARG:HG3	1:k:725:ARG:HH12	1.02	0.80
1:G:767:VAL:HG21	1:G:785:SER:HB2	1.64	0.80
1:P:804:VAL:HG21	1:P:833:ILE:HG13	1.64	0.80
2:Z:999:ILE:CD1	2:Z:1008:VAL:HG23	2.11	0.80
1:h:721:LEU:HD22	1:n:822:SER:O	1.82	0.80
1:D:898:VAL:CG1	2:E:1033:GLN:HG3	2.11	0.79
1:M:721:LEU:HD22	1:S:822:SER:O	1.82	0.79
1:M:767:VAL:HG21	1:M:785:SER:HB2	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:936:MET:HE1	2:Q:1004:LYS:HB3	1.63	0.79
1:S:757:THR:HG21	1:S:802:VAL:CG2	2.11	0.79
1:V:757:THR:HG21	1:V:802:VAL:CG2	2.11	0.79
1:V:898:VAL:CG1	2:W:1033:GLN:HG3	2.11	0.79
1:b:757:THR:HG21	1:b:802:VAL:CG2	2.11	0.79
2:f:999:ILE:CD1	2:f:1008:VAL:HG23	2.10	0.79
1:h:801:ARG:HB2	1:h:834:PRO:HA	1.64	0.79
1:A:721:LEU:CD2	1:G:805:LEU:CA	1.79	0.79
1:A:804:VAL:HG21	1:A:833:ILE:HG13	1.64	0.79
1:G:721:LEU:HD22	1:M:822:SER:O	1.82	0.79
1:Y:844:ARG:HG2	1:Y:873:ILE:HG12	1.61	0.79
1:Y:901:LEU:HD12	2:Z:912:THR:HB	1.63	0.79
2:c:975:LEU:HD13	1:e:752:GLY:O	1.81	0.79
2:c:999:ILE:CD1	2:c:1008:VAL:HG23	2.10	0.79
1:k:901:LEU:HD12	2:l:912:THR:HB	1.63	0.79
1:D:757:THR:HG21	1:D:802:VAL:CG2	2.11	0.79
1:D:808:ARG:HG3	1:n:725:ARG:HH12	1.02	0.79
1:J:902:ALA:HA	2:K:1029:VAL:HG13	1.63	0.79
1:V:721:LEU:HD22	1:b:822:SER:O	1.82	0.79
1:k:833:ILE:HD13	1:k:885:VAL:HG21	1.62	0.79
1:k:898:VAL:CG1	2:l:1033:GLN:HG3	2.11	0.79
1:D:721:LEU:HD22	1:J:822:SER:O	1.82	0.79
1:D:851:ILE:HA	1:D:854:PHE:CD2	2.16	0.79
2:E:936:MET:HE1	2:E:1004:LYS:HB3	1.63	0.79
2:H:936:MET:HE1	2:H:1004:LYS:HB3	1.63	0.79
2:H:975:LEU:HD13	1:J:752:GLY:O	1.81	0.79
1:P:725:ARG:HH12	1:V:808:ARG:HG3	1.02	0.79
1:V:844:ARG:HG2	1:V:873:ILE:HG12	1.61	0.79
1:b:721:LEU:HD22	1:h:822:SER:O	1.82	0.79
2:l:975:LEU:HD13	1:n:752:GLY:O	1.81	0.79
1:n:808:ARG:HG2	1:n:819:ASN:HA	1.62	0.79
1:D:720:ASN:CA	1:J:805:LEU:CD2	2.58	0.79
1:G:746:MET:HB3	1:G:886:SER:OG	1.83	0.79
1:S:804:VAL:HG21	1:S:833:ILE:HG13	1.64	0.79
1:b:746:MET:HB3	1:b:886:SER:OG	1.83	0.79
1:h:746:MET:HB3	1:h:886:SER:OG	1.83	0.79
1:h:808:ARG:HG2	1:h:819:ASN:HA	1.62	0.79
1:h:833:ILE:HD13	1:h:885:VAL:HG21	1.62	0.79
1:D:767:VAL:HG21	1:D:785:SER:HB2	1.64	0.79
1:D:801:ARG:HB2	1:D:834:PRO:HA	1.64	0.79
1:M:833:ILE:HD13	1:M:885:VAL:HG21	1.62	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:902:ALA:HA	2:N:1029:VAL:HG13	1.63	0.79
1:P:844:ARG:HG2	1:P:873:ILE:HG12	1.61	0.79
1:Y:746:MET:HB3	1:Y:886:SER:OG	1.83	0.79
1:b:721:LEU:CD2	1:h:805:LEU:CA	1.79	0.79
1:b:801:ARG:HB2	1:b:834:PRO:HA	1.64	0.79
1:k:808:ARG:HG2	1:k:819:ASN:HA	1.62	0.79
1:n:767:VAL:HG21	1:n:785:SER:HB2	1.64	0.79
1:A:851:ILE:HA	1:A:854:PHE:CD2	2.16	0.79
2:H:928:TYR:OH	2:H:946:ASP:HB3	1.83	0.79
1:J:746:MET:HB3	1:J:886:SER:OG	1.83	0.79
1:V:743:LYS:HE2	1:Y:808:ARG:NH2	1.98	0.79
1:h:901:LEU:HD12	2:i:912:THR:HB	1.63	0.79
1:k:767:VAL:HG21	1:k:785:SER:HB2	1.64	0.79
1:n:804:VAL:HG21	1:n:833:ILE:HG13	1.64	0.79
1:D:746:MET:HB3	1:D:886:SER:OG	1.83	0.79
2:K:936:MET:HE1	2:K:1004:LYS:HB3	1.63	0.79
1:S:902:ALA:HA	2:T:1029:VAL:HG13	1.63	0.79
1:b:901:LEU:HD12	2:c:912:THR:HB	1.63	0.79
2:c:928:TYR:OH	2:c:946:ASP:HB3	1.83	0.79
1:e:746:MET:HB3	1:e:886:SER:OG	1.83	0.79
1:e:901:LEU:HD12	2:f:912:THR:HB	1.63	0.79
1:h:767:VAL:HG21	1:h:785:SER:HB2	1.64	0.79
2:B:928:TYR:OH	2:B:946:ASP:HB3	1.83	0.79
1:D:822:SER:O	1:n:721:LEU:HD22	1.82	0.79
1:G:721:LEU:C	1:M:805:LEU:O	2.26	0.79
1:P:721:LEU:C	1:V:805:LEU:O	2.26	0.79
1:P:743:LYS:HE2	1:S:808:ARG:NH2	1.98	0.79
1:S:743:LYS:HE2	1:V:808:ARG:NH2	1.98	0.79
2:W:928:TYR:OH	2:W:946:ASP:HB3	1.83	0.79
1:Y:758:THR:HA	1:Y:876:THR:CG2	2.13	0.79
1:A:758:THR:HA	1:A:876:THR:CG2	2.13	0.79
1:G:898:VAL:CG1	2:H:1033:GLN:HG3	2.11	0.79
1:J:767:VAL:HG21	1:J:785:SER:HB2	1.64	0.79
1:M:757:THR:HG21	1:M:802:VAL:CG2	2.11	0.79
1:P:902:ALA:HA	2:Q:1029:VAL:HG13	1.63	0.79
1:S:746:MET:HB3	1:S:886:SER:OG	1.83	0.79
1:S:767:VAL:HG21	1:S:785:SER:HB2	1.64	0.79
1:V:758:THR:HA	1:V:876:THR:CG2	2.13	0.79
1:Y:757:THR:HG21	1:Y:802:VAL:CG2	2.11	0.79
1:e:721:LEU:CD2	1:k:805:LEU:CA	1.79	0.79
1:e:721:LEU:HD22	1:k:822:SER:O	1.82	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:801:ARG:HB2	1:k:834:PRO:HA	1.64	0.79
1:A:725:ARG:HH12	1:G:808:ARG:HG3	1.02	0.78
1:A:801:ARG:HB2	1:A:834:PRO:HA	1.64	0.78
1:M:758:THR:HA	1:M:876:THR:CG2	2.13	0.78
2:N:936:MET:HE1	2:N:1004:LYS:HB3	1.63	0.78
1:P:757:THR:HG21	1:P:802:VAL:CG2	2.11	0.78
1:V:746:MET:HB3	1:V:886:SER:OG	1.83	0.78
1:V:804:VAL:HG21	1:V:833:ILE:HG13	1.64	0.78
1:b:743:LYS:HE2	1:e:808:ARG:NH2	1.98	0.78
1:h:720:ASN:CB	1:n:805:LEU:HD23	2.13	0.78
2:i:928:TYR:OH	2:i:946:ASP:HB3	1.83	0.78
1:k:746:MET:HB3	1:k:886:SER:OG	1.83	0.78
1:n:758:THR:HA	1:n:876:THR:CG2	2.13	0.78
1:A:805:LEU:HD23	1:k:720:ASN:CB	2.13	0.78
1:A:808:ARG:NH2	1:n:743:LYS:HE2	1.98	0.78
1:D:758:THR:HA	1:D:876:THR:CG2	2.13	0.78
1:G:711:SER:CB	1:G:714:SER:HB2	2.12	0.78
1:G:801:ARG:HB2	1:G:834:PRO:HA	1.64	0.78
1:M:746:MET:HB3	1:M:886:SER:OG	1.83	0.78
1:b:720:ASN:CB	1:h:805:LEU:HD23	2.13	0.78
2:f:928:TYR:OH	2:f:946:ASP:HB3	1.83	0.78
2:l:928:TYR:OH	2:l:946:ASP:HB3	1.83	0.78
2:o:928:TYR:OH	2:o:946:ASP:HB3	1.83	0.78
1:D:805:LEU:HD23	1:n:720:ASN:CB	2.13	0.78
1:G:720:ASN:CB	1:M:805:LEU:HD23	2.13	0.78
2:N:928:TYR:OH	2:N:946:ASP:HB3	1.83	0.78
2:T:915:LEU:HD22	2:T:1028:ASP:HB3	1.66	0.78
1:Y:721:LEU:HD22	1:e:822:SER:O	1.82	0.78
1:Y:743:LYS:HE2	1:b:808:ARG:NH2	1.98	0.78
1:e:720:ASN:CB	1:k:805:LEU:HD23	2.14	0.78
1:k:804:VAL:HG21	1:k:833:ILE:HG13	1.64	0.78
1:A:720:ASN:CB	1:G:805:LEU:HD23	2.13	0.78
1:D:720:ASN:CB	1:J:805:LEU:HD23	2.13	0.78
1:D:721:LEU:C	1:J:805:LEU:O	2.26	0.78
2:K:928:TYR:OH	2:K:946:ASP:HB3	1.83	0.78
1:M:721:LEU:C	1:S:805:LEU:O	2.26	0.78
1:b:758:THR:HA	1:b:876:THR:CG2	2.13	0.78
1:k:743:LYS:HE2	1:n:808:ARG:NH2	1.98	0.78
1:A:746:MET:HB3	1:A:886:SER:OG	1.83	0.78
1:D:721:LEU:CD2	1:J:805:LEU:CA	1.79	0.78
1:D:743:LYS:HE2	1:G:808:ARG:NH2	1.98	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:928:TYR:OH	2:E:946:ASP:HB3	1.83	0.78
1:J:711:SER:CB	1:J:714:SER:HB2	2.12	0.78
1:J:758:THR:HA	1:J:876:THR:CG2	2.13	0.78
2:l:915:LEU:HD22	2:l:1028:ASP:HB3	1.66	0.78
1:A:759:VAL:HG21	1:n:801:ARG:HD2	1.66	0.78
1:D:805:LEU:O	1:n:721:LEU:C	2.26	0.78
1:G:720:ASN:CA	1:M:805:LEU:CD2	2.58	0.78
2:H:915:LEU:HD22	2:H:1028:ASP:HB3	1.66	0.78
1:J:720:ASN:CB	1:P:805:LEU:HD23	2.14	0.78
1:P:758:THR:HA	1:P:876:THR:CG2	2.13	0.78
2:T:928:TYR:OH	2:T:946:ASP:HB3	1.83	0.78
1:V:721:LEU:C	1:b:805:LEU:O	2.26	0.78
1:Y:720:ASN:CB	1:e:805:LEU:HD23	2.13	0.78
1:h:902:ALA:HA	2:i:1029:VAL:HG13	1.63	0.78
2:i:915:LEU:HD22	2:i:1028:ASP:HB3	1.66	0.78
1:k:758:THR:HA	1:k:876:THR:CG2	2.13	0.78
1:A:801:ARG:HD2	1:D:759:VAL:HG21	1.66	0.78
1:J:743:LYS:HE2	1:M:808:ARG:NH2	1.98	0.78
1:M:720:ASN:CB	1:S:805:LEU:HD23	2.13	0.78
1:P:746:MET:HB3	1:P:886:SER:OG	1.83	0.78
2:Q:928:TYR:OH	2:Q:946:ASP:HB3	1.83	0.78
1:S:801:ARG:HB2	1:S:834:PRO:HA	1.64	0.78
1:Y:804:VAL:HG21	1:Y:833:ILE:HG13	1.64	0.78
1:b:767:VAL:HG21	1:b:785:SER:HB2	1.64	0.78
1:k:801:ARG:HD2	1:n:759:VAL:HG21	1.66	0.78
1:A:743:LYS:HE2	1:D:808:ARG:NH2	1.98	0.78
1:J:721:LEU:C	1:P:805:LEU:O	2.26	0.78
1:M:711:SER:CB	1:M:714:SER:HB2	2.12	0.78
1:P:720:ASN:CB	1:V:805:LEU:HD23	2.13	0.78
1:S:720:ASN:CB	1:Y:805:LEU:HD23	2.13	0.78
1:V:720:ASN:CB	1:b:805:LEU:HD23	2.13	0.78
1:Y:721:LEU:C	1:e:805:LEU:O	2.26	0.78
2:Z:928:TYR:OH	2:Z:946:ASP:HB3	1.83	0.78
1:A:721:LEU:C	1:G:805:LEU:O	2.26	0.78
1:P:711:SER:CB	1:P:714:SER:HB2	2.12	0.78
2:Q:915:LEU:HD22	2:Q:1028:ASP:HB3	1.66	0.78
1:S:721:LEU:C	1:Y:805:LEU:O	2.26	0.78
1:S:758:THR:HA	1:S:876:THR:CG2	2.13	0.78
1:h:804:VAL:HG21	1:h:833:ILE:HG13	1.64	0.78
1:A:809:ILE:CG1	1:A:820:ILE:HD13	2.14	0.78
1:M:721:LEU:CD2	1:S:805:LEU:CA	1.79	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:801:ARG:HB2	1:P:834:PRO:HA	1.64	0.78
2:W:915:LEU:HD22	2:W:1028:ASP:HB3	1.66	0.78
1:b:804:VAL:HG21	1:b:833:ILE:HG13	1.64	0.78
1:n:809:ILE:CG1	1:n:820:ILE:HD13	2.14	0.78
2:o:915:LEU:HD22	2:o:1028:ASP:HB3	1.66	0.78
1:D:801:ARG:HD2	1:G:759:VAL:HG21	1.66	0.77
1:G:743:LYS:HE2	1:J:808:ARG:NH2	1.98	0.77
1:e:804:VAL:HG21	1:e:833:ILE:HG13	1.64	0.77
1:h:801:ARG:HD2	1:k:759:VAL:HG21	1.66	0.77
1:h:806:TRP:CD1	1:h:887:ILE:HG12	2.20	0.77
1:P:767:VAL:HG21	1:P:785:SER:HB2	1.64	0.77
1:S:711:SER:CB	1:S:714:SER:HB2	2.13	0.77
1:b:806:TRP:CD1	1:b:887:ILE:HG12	2.20	0.77
1:e:721:LEU:C	1:k:805:LEU:O	2.26	0.77
1:e:806:TRP:CD1	1:e:887:ILE:HG12	2.20	0.77
2:f:915:LEU:HD22	2:f:1028:ASP:HB3	1.66	0.77
1:k:806:TRP:CD1	1:k:887:ILE:HG12	2.20	0.77
1:D:746:MET:CE	1:D:886:SER:HB3	2.14	0.77
2:E:915:LEU:HD22	2:E:1028:ASP:HB3	1.66	0.77
2:K:915:LEU:HD22	2:K:1028:ASP:HB3	1.66	0.77
1:V:711:SER:CB	1:V:714:SER:HB2	2.12	0.77
1:Y:806:TRP:CD1	1:Y:887:ILE:HG12	2.19	0.77
1:h:721:LEU:C	1:n:805:LEU:O	2.26	0.77
1:V:801:ARG:HB2	1:V:834:PRO:HA	1.64	0.77
1:Y:801:ARG:HB2	1:Y:834:PRO:HA	1.64	0.77
1:e:743:LYS:HE2	1:h:808:ARG:NH2	1.98	0.77
1:e:758:THR:HA	1:e:876:THR:CG2	2.13	0.77
1:h:746:MET:CE	1:h:886:SER:HB3	2.14	0.77
1:h:758:THR:HA	1:h:876:THR:CG2	2.13	0.77
1:n:746:MET:HB3	1:n:886:SER:OG	1.83	0.77
1:n:806:TRP:CD1	1:n:887:ILE:HG12	2.20	0.77
1:G:746:MET:CE	1:G:886:SER:HB3	2.14	0.77
1:G:758:THR:HA	1:G:876:THR:CG2	2.13	0.77
1:Y:767:VAL:HG21	1:Y:785:SER:HB2	1.64	0.77
1:h:743:LYS:HE2	1:k:808:ARG:NH2	1.98	0.77
1:k:746:MET:CE	1:k:886:SER:HB3	2.15	0.77
1:n:801:ARG:HB2	1:n:834:PRO:HA	1.64	0.77
1:G:868:ARG:NH1	1:J:865:GLU:OE1	2.17	0.77
1:M:743:LYS:HE2	1:P:808:ARG:NH2	1.98	0.77
1:S:746:MET:CE	1:S:886:SER:HB3	2.14	0.77
1:V:767:VAL:HG21	1:V:785:SER:HB2	1.64	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:806:TRP:CD1	1:V:887:ILE:HG12	2.20	0.77
1:b:721:LEU:C	1:h:805:LEU:O	2.26	0.77
1:e:746:MET:CE	1:e:886:SER:HB3	2.15	0.77
1:A:806:TRP:CD1	1:A:887:ILE:HG12	2.20	0.77
1:D:809:ILE:CG1	1:D:820:ILE:HD13	2.14	0.77
1:G:721:LEU:CD2	1:M:805:LEU:CA	1.79	0.77
1:A:746:MET:CE	1:A:886:SER:HB3	2.15	0.77
1:A:805:LEU:O	1:k:721:LEU:C	2.26	0.77
1:P:746:MET:CE	1:P:886:SER:HB3	2.15	0.77
1:G:801:ARG:HD2	1:J:759:VAL:HG21	1.66	0.77
1:J:720:ASN:CA	1:P:805:LEU:CD2	2.58	0.77
1:M:801:ARG:HB2	1:M:834:PRO:HA	1.64	0.77
1:S:801:ARG:HD2	1:V:759:VAL:HG21	1.66	0.77
2:c:915:LEU:HD22	2:c:1028:ASP:HB3	1.66	0.77
1:e:801:ARG:HD2	1:h:759:VAL:HG21	1.66	0.77
1:n:901:LEU:HG	1:n:902:ALA:HB2	1.67	0.77
1:D:806:TRP:CD1	1:D:887:ILE:HG12	2.19	0.77
1:J:801:ARG:HB2	1:J:834:PRO:HA	1.64	0.77
1:J:809:ILE:CG1	1:J:820:ILE:HD13	2.14	0.77
2:N:1013:PHE:O	2:N:1015:PRO:HD3	1.86	0.77
1:S:806:TRP:CD1	1:S:887:ILE:HG12	2.20	0.77
1:V:801:ARG:HD2	1:Y:759:VAL:HG21	1.66	0.77
1:Y:809:ILE:CG1	1:Y:820:ILE:HD13	2.14	0.77
1:b:809:ILE:CG1	1:b:820:ILE:HD13	2.14	0.77
1:e:767:VAL:HG21	1:e:785:SER:HB2	1.64	0.77
1:n:779:ARG:HB2	2:o:1025:ALA:N	2.00	0.77
1:D:779:ARG:HB2	2:E:1025:ALA:N	2.00	0.76
1:M:809:ILE:CG1	1:M:820:ILE:HD13	2.14	0.76
1:P:801:ARG:HD2	1:S:759:VAL:HG21	1.66	0.76
2:Q:1013:PHE:O	2:Q:1015:PRO:HD3	1.85	0.76
2:i:1013:PHE:O	2:i:1015:PRO:HD3	1.86	0.76
1:k:901:LEU:HG	1:k:902:ALA:HB2	1.67	0.76
1:A:901:LEU:HG	1:A:902:ALA:HB2	1.67	0.76
1:J:868:ARG:NH1	1:M:865:GLU:OE1	2.17	0.76
2:K:1013:PHE:O	2:K:1015:PRO:HD3	1.86	0.76
1:P:809:ILE:CG1	1:P:820:ILE:HD13	2.14	0.76
1:h:901:LEU:HG	1:h:902:ALA:HB2	1.67	0.76
1:k:746:MET:O	1:k:748:PRO:HD3	1.85	0.76
1:G:809:ILE:CG1	1:G:820:ILE:HD13	2.14	0.76
1:J:801:ARG:HD2	1:M:759:VAL:HG21	1.66	0.76
1:S:901:LEU:HG	1:S:902:ALA:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:1013:PHE:O	2:T:1015:PRO:HD3	1.85	0.76
1:Y:779:ARG:HB2	2:Z:1025:ALA:N	2.00	0.76
1:h:849:ILE:O	1:h:853:LEU:HG	1.86	0.76
2:o:1013:PHE:O	2:o:1015:PRO:HD3	1.85	0.76
2:B:915:LEU:HD22	2:B:1028:ASP:HB3	1.66	0.76
2:H:1013:PHE:O	2:H:1015:PRO:HD3	1.85	0.76
1:S:779:ARG:HB2	2:T:1025:ALA:N	2.00	0.76
1:S:809:ILE:CG1	1:S:820:ILE:HD13	2.14	0.76
1:Y:849:ILE:O	1:Y:853:LEU:HG	1.86	0.76
1:b:746:MET:CE	1:b:886:SER:HB3	2.14	0.76
1:h:746:MET:O	1:h:748:PRO:HD3	1.86	0.76
1:k:787:VAL:CG2	1:k:809:ILE:HG12	2.16	0.76
1:G:742:PRO:CG	1:J:810:ARG:NH1	2.47	0.76
1:G:806:TRP:CD1	1:G:887:ILE:HG12	2.20	0.76
1:J:746:MET:CE	1:J:886:SER:HB3	2.15	0.76
1:J:779:ARG:HB2	2:K:1025:ALA:N	2.00	0.76
1:P:779:ARG:HB2	2:Q:1025:ALA:N	2.00	0.76
1:P:806:TRP:CD1	1:P:887:ILE:HG12	2.20	0.76
1:P:901:LEU:HG	1:P:902:ALA:HB2	1.67	0.76
1:S:849:ILE:O	1:S:853:LEU:HG	1.86	0.76
1:V:809:ILE:CG1	1:V:820:ILE:HD13	2.14	0.76
1:h:779:ARG:HB2	2:i:1025:ALA:N	2.00	0.76
1:A:849:ILE:O	1:A:853:LEU:HG	1.86	0.76
1:D:746:MET:O	1:D:748:PRO:HD3	1.86	0.76
1:D:901:LEU:HG	1:D:902:ALA:HB2	1.67	0.76
1:V:901:LEU:HG	1:V:902:ALA:HB2	1.67	0.76
2:W:1013:PHE:O	2:W:1015:PRO:HD3	1.85	0.76
1:e:779:ARG:HB2	2:f:1025:ALA:N	2.00	0.76
1:e:809:ILE:CG1	1:e:820:ILE:HD13	2.14	0.76
1:n:746:MET:CE	1:n:886:SER:HB3	2.14	0.76
1:A:787:VAL:CG2	1:A:809:ILE:HG12	2.16	0.76
1:A:796:LYS:O	1:A:875:PRO:HG2	1.86	0.76
1:D:787:VAL:CG2	1:D:809:ILE:HG12	2.16	0.76
2:E:1013:PHE:O	2:E:1015:PRO:HD3	1.85	0.76
1:M:801:ARG:HD2	1:P:759:VAL:HG21	1.66	0.76
1:Y:801:ARG:HD2	1:b:759:VAL:HG21	1.66	0.76
2:Z:915:LEU:HD22	2:Z:1028:ASP:HB3	1.66	0.76
2:c:1013:PHE:O	2:c:1015:PRO:HD3	1.85	0.76
1:G:901:LEU:HG	1:G:902:ALA:HB2	1.66	0.76
2:K:943:HIS:CD2	3:L:1058:PRO:HA	2.21	0.76
1:M:901:LEU:HG	1:M:902:ALA:HB2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:943:HIS:CD2	3:U:1058:PRO:HA	2.21	0.76
2:W:965:TYR:OH	1:Y:752:GLY:HA2	1.86	0.76
1:Y:746:MET:CE	1:Y:886:SER:HB3	2.14	0.76
1:b:779:ARG:HB2	2:c:1025:ALA:N	2.00	0.76
1:b:849:ILE:O	1:b:853:LEU:HG	1.86	0.76
1:k:779:ARG:HB2	2:l:1025:ALA:N	2.00	0.76
1:n:802:VAL:HG22	1:n:803:PHE:H	1.51	0.76
1:A:742:PRO:CG	1:D:810:ARG:NH1	2.47	0.76
1:A:802:VAL:HG22	1:A:803:PHE:H	1.51	0.76
2:B:943:HIS:CD2	3:C:1058:PRO:HA	2.21	0.76
2:B:965:TYR:OH	1:D:752:GLY:HA2	1.86	0.76
2:B:1013:PHE:O	2:B:1015:PRO:HD3	1.85	0.76
1:G:746:MET:O	1:G:748:PRO:HD3	1.85	0.76
2:K:965:TYR:OH	1:M:752:GLY:HA2	1.86	0.76
1:M:779:ARG:HB2	2:N:1025:ALA:N	2.00	0.76
2:N:915:LEU:HD22	2:N:1028:ASP:HB3	1.66	0.76
2:Z:943:HIS:CD2	3:a:1058:PRO:HA	2.21	0.76
2:Z:965:TYR:OH	1:b:752:GLY:HA2	1.86	0.76
1:b:801:ARG:HD2	1:e:759:VAL:HG21	1.66	0.76
2:f:943:HIS:CD2	3:g:1058:PRO:HA	2.21	0.76
2:i:965:TYR:OH	1:k:752:GLY:HA2	1.86	0.76
1:n:787:VAL:CG2	1:n:809:ILE:HG12	2.16	0.76
1:G:779:ARG:HB2	2:H:1025:ALA:N	2.00	0.76
1:J:806:TRP:CD1	1:J:887:ILE:HG12	2.20	0.76
1:M:806:TRP:CD1	1:M:887:ILE:HG12	2.20	0.76
2:T:965:TYR:OH	1:V:752:GLY:HA2	1.86	0.76
2:Z:1013:PHE:O	2:Z:1015:PRO:HD3	1.85	0.76
1:e:901:LEU:HG	1:e:902:ALA:HB2	1.67	0.76
1:k:849:ILE:O	1:k:853:LEU:HG	1.86	0.76
1:D:796:LYS:O	1:D:875:PRO:HG2	1.86	0.75
1:D:802:VAL:HG22	1:D:803:PHE:H	1.51	0.75
1:M:746:MET:CE	1:M:886:SER:HB3	2.14	0.75
1:M:868:ARG:NH1	1:P:865:GLU:OE1	2.17	0.75
2:Q:943:HIS:CD2	3:R:1058:PRO:HA	2.21	0.75
1:V:746:MET:CE	1:V:886:SER:HB3	2.15	0.75
1:Y:901:LEU:HG	1:Y:902:ALA:HB2	1.67	0.75
1:e:787:VAL:CG2	1:e:809:ILE:HG12	2.16	0.75
2:i:943:HIS:CD2	3:j:1058:PRO:HA	2.21	0.75
2:E:980:VAL:CG1	1:G:766:ARG:NH1	2.47	0.75
1:J:724:ALA:C	1:P:807:GLU:OE1	2.30	0.75
1:J:787:VAL:CG2	1:J:809:ILE:HG12	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:796:LYS:O	1:M:875:PRO:HG2	1.86	0.75
1:P:724:ALA:C	1:V:807:GLU:OE1	2.30	0.75
1:b:787:VAL:CG2	1:b:809:ILE:HG12	2.16	0.75
1:k:809:ILE:CG1	1:k:820:ILE:HD13	2.14	0.75
1:A:746:MET:O	1:A:748:PRO:HD3	1.86	0.75
1:G:802:VAL:HG22	1:G:803:PHE:H	1.51	0.75
2:N:965:TYR:OH	1:P:752:GLY:HA2	1.86	0.75
1:V:724:ALA:C	1:b:807:GLU:OE1	2.30	0.75
1:V:779:ARG:HB2	2:W:1025:ALA:N	2.00	0.75
2:f:1013:PHE:O	2:f:1015:PRO:HD3	1.86	0.75
1:h:787:VAL:CG2	1:h:809:ILE:HG12	2.16	0.75
1:k:802:VAL:HG22	1:k:803:PHE:H	1.51	0.75
2:l:965:TYR:OH	1:n:752:GLY:HA2	1.86	0.75
2:l:1013:PHE:O	2:l:1015:PRO:HD3	1.85	0.75
1:n:746:MET:O	1:n:748:PRO:HD3	1.86	0.75
1:n:849:ILE:O	1:n:853:LEU:HG	1.86	0.75
2:E:943:HIS:CD2	3:F:1058:PRO:HA	2.21	0.75
1:G:849:ILE:O	1:G:853:LEU:HG	1.86	0.75
1:M:849:ILE:O	1:M:853:LEU:HG	1.86	0.75
2:c:965:TYR:OH	1:e:752:GLY:HA2	1.86	0.75
1:e:724:ALA:C	1:k:807:GLU:OE1	2.30	0.75
1:J:901:LEU:HG	1:J:902:ALA:HB2	1.67	0.75
1:M:720:ASN:N	1:S:805:LEU:HD23	2.02	0.75
1:P:849:ILE:O	1:P:853:LEU:HG	1.86	0.75
1:b:901:LEU:HG	1:b:902:ALA:HB2	1.66	0.75
2:c:943:HIS:CD2	3:d:1058:PRO:HA	2.21	0.75
1:h:720:ASN:N	1:n:805:LEU:HD23	2.02	0.75
2:E:965:TYR:OH	1:G:752:GLY:HA2	1.86	0.75
2:H:965:TYR:OH	1:J:752:GLY:HA2	1.86	0.75
1:J:720:ASN:N	1:P:805:LEU:HD23	2.02	0.75
1:S:724:ALA:C	1:Y:807:GLU:OE1	2.30	0.75
1:b:724:ALA:C	1:h:807:GLU:OE1	2.30	0.75
1:e:849:ILE:O	1:e:853:LEU:HG	1.86	0.75
1:h:809:ILE:CG1	1:h:820:ILE:HD13	2.14	0.75
1:A:779:ARG:HB2	2:B:1025:ALA:N	2.00	0.75
1:A:807:GLU:OE1	1:k:724:ALA:C	2.30	0.75
1:J:796:LYS:O	1:J:875:PRO:HG2	1.86	0.75
1:M:742:PRO:CG	1:P:810:ARG:NH1	2.47	0.75
2:N:943:HIS:CD2	3:O:1058:PRO:HA	2.21	0.75
1:P:868:ARG:NH1	1:S:865:GLU:OE1	2.17	0.75
2:Q:965:TYR:OH	1:S:752:GLY:HA2	1.86	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:724:ALA:C	1:e:807:GLU:OE1	2.30	0.75
1:h:726:LEU:CD1	1:k:891:ARG:NH1	2.50	0.75
1:h:802:VAL:HG22	1:h:803:PHE:H	1.51	0.75
1:n:796:LYS:O	1:n:875:PRO:HG2	1.86	0.75
2:o:943:HIS:CD2	3:p:1058:PRO:HA	2.21	0.75
1:A:724:ALA:C	1:G:807:GLU:OE1	2.30	0.75
1:A:902:ALA:O	2:B:1029:VAL:HA	1.87	0.75
1:G:724:ALA:C	1:M:807:GLU:OE1	2.30	0.75
1:G:796:LYS:O	1:G:875:PRO:HG2	1.86	0.75
1:P:787:VAL:CG2	1:P:809:ILE:HG12	2.16	0.75
1:S:787:VAL:CG2	1:S:809:ILE:HG12	2.16	0.75
1:V:720:ASN:N	1:b:805:LEU:HD23	2.02	0.75
1:V:787:VAL:CG2	1:V:809:ILE:HG12	2.16	0.75
2:W:980:VAL:HG13	1:Y:766:ARG:HH12	1.51	0.75
1:b:868:ARG:NH1	1:e:865:GLU:OE1	2.17	0.75
1:e:721:LEU:CA	1:k:805:LEU:O	2.35	0.75
1:n:902:ALA:O	2:o:1029:VAL:HA	1.87	0.75
1:G:787:VAL:CG2	1:G:809:ILE:HG12	2.16	0.75
1:S:902:ALA:O	2:T:1029:VAL:HA	1.87	0.75
1:V:849:ILE:O	1:V:853:LEU:HG	1.86	0.75
1:Y:720:ASN:N	1:e:805:LEU:HD23	2.02	0.75
1:e:726:LEU:CD1	1:h:891:ARG:NH1	2.50	0.75
1:e:746:MET:O	1:e:748:PRO:HD3	1.85	0.75
1:h:736:ASN:HB2	1:h:739:LEU:CG	2.17	0.75
1:D:724:ALA:C	1:J:807:GLU:OE1	2.30	0.74
2:H:943:HIS:CD2	3:I:1058:PRO:HA	2.21	0.74
1:P:746:MET:O	1:P:748:PRO:HD3	1.85	0.74
1:P:796:LYS:O	1:P:875:PRO:HG2	1.86	0.74
1:Y:902:ALA:O	2:Z:1029:VAL:HA	1.87	0.74
1:J:802:VAL:HG22	1:J:803:PHE:H	1.51	0.74
1:J:902:ALA:O	2:K:1029:VAL:HA	1.87	0.74
1:M:746:MET:O	1:M:748:PRO:HD3	1.86	0.74
1:S:868:ARG:NH1	1:V:865:GLU:OE1	2.17	0.74
2:T:980:VAL:HG13	1:V:766:ARG:HH12	1.51	0.74
1:b:835:GLY:HA3	1:b:878:TYR:O	1.88	0.74
1:e:720:ASN:N	1:k:805:LEU:HD23	2.02	0.74
1:h:721:LEU:CA	1:n:805:LEU:O	2.35	0.74
1:h:724:ALA:C	1:n:807:GLU:OE1	2.30	0.74
1:k:711:SER:CB	1:k:714:SER:HB2	2.12	0.74
1:k:902:ALA:O	2:l:1029:VAL:HA	1.87	0.74
1:D:807:GLU:OE1	1:n:724:ALA:C	2.30	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:902:ALA:O	2:E:1029:VAL:HA	1.87	0.74
1:G:720:ASN:N	1:M:805:LEU:HD23	2.02	0.74
1:J:849:ILE:O	1:J:853:LEU:HG	1.86	0.74
1:P:742:PRO:CG	1:S:810:ARG:NH1	2.47	0.74
1:S:835:GLY:HA3	1:S:878:TYR:O	1.88	0.74
1:V:721:LEU:CA	1:b:805:LEU:O	2.35	0.74
1:V:746:MET:O	1:V:748:PRO:HD3	1.86	0.74
1:V:835:GLY:HA3	1:V:878:TYR:O	1.88	0.74
2:W:943:HIS:CD2	3:X:1058:PRO:HA	2.21	0.74
1:Y:835:GLY:HA3	1:Y:878:TYR:O	1.88	0.74
1:b:902:ALA:O	2:c:1029:VAL:HA	1.87	0.74
1:A:726:LEU:CD1	1:D:891:ARG:NH1	2.50	0.74
1:D:805:LEU:O	1:n:721:LEU:CA	2.35	0.74
1:D:849:ILE:O	1:D:853:LEU:HG	1.86	0.74
2:E:925:ASN:ND2	2:E:1012:ASN:HB2	2.02	0.74
1:J:746:MET:O	1:J:748:PRO:HD3	1.85	0.74
1:Y:746:MET:O	1:Y:748:PRO:HD3	1.86	0.74
1:Y:787:VAL:CG2	1:Y:809:ILE:HG12	2.16	0.74
1:e:868:ARG:NH1	1:h:865:GLU:OE1	2.17	0.74
1:k:726:LEU:CD1	1:n:891:ARG:NH1	2.50	0.74
2:l:925:ASN:ND2	2:l:1012:ASN:HB2	2.02	0.74
1:A:752:GLY:HA2	2:o:965:TYR:OH	1.86	0.74
1:M:724:ALA:C	1:S:807:GLU:OE1	2.30	0.74
1:S:746:MET:O	1:S:748:PRO:HD3	1.86	0.74
1:e:835:GLY:HA3	1:e:878:TYR:O	1.88	0.74
2:l:943:HIS:CD2	3:m:1058:PRO:HA	2.21	0.74
1:D:726:LEU:CD1	1:G:891:ARG:NH1	2.50	0.74
1:P:902:ALA:O	2:Q:1029:VAL:HA	1.87	0.74
1:V:868:ARG:NH1	1:Y:865:GLU:OE1	2.17	0.74
1:Y:868:ARG:NH1	1:b:865:GLU:OE1	2.17	0.74
1:k:736:ASN:HB2	1:k:739:LEU:CG	2.17	0.74
2:Q:980:VAL:HG13	1:S:766:ARG:HH12	1.51	0.74
1:S:736:ASN:HB2	1:S:739:LEU:CG	2.17	0.74
1:Y:721:LEU:CA	1:e:805:LEU:O	2.35	0.74
1:b:746:MET:O	1:b:748:PRO:HD3	1.85	0.74
1:k:742:PRO:CG	1:n:810:ARG:NH1	2.47	0.74
2:o:925:ASN:ND2	2:o:1012:ASN:HB2	2.02	0.74
1:M:835:GLY:HA3	1:M:878:TYR:O	1.88	0.74
1:M:902:ALA:O	2:N:1029:VAL:HA	1.87	0.74
1:P:835:GLY:HA3	1:P:878:TYR:O	1.88	0.74
1:S:720:ASN:N	1:Y:805:LEU:HD23	2.02	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:925:ASN:ND2	2:T:1012:ASN:HB2	2.02	0.74
1:V:796:LYS:O	1:V:875:PRO:HG2	1.86	0.74
1:V:802:VAL:HG22	1:V:803:PHE:H	1.51	0.74
2:W:925:ASN:ND2	2:W:1012:ASN:HB2	2.02	0.74
1:Y:720:ASN:CA	1:e:805:LEU:CD2	2.58	0.74
1:b:796:LYS:O	1:b:875:PRO:HG2	1.86	0.74
1:h:868:ARG:NH1	1:k:865:GLU:OE1	2.17	0.74
1:A:721:LEU:CA	1:G:805:LEU:O	2.35	0.74
1:A:891:ARG:NH1	1:n:726:LEU:CD1	2.50	0.74
1:D:742:PRO:CG	1:G:810:ARG:NH1	2.47	0.74
1:G:902:ALA:O	2:H:1029:VAL:HA	1.87	0.74
1:M:787:VAL:CG2	1:M:809:ILE:HG12	2.16	0.74
1:S:796:LYS:O	1:S:875:PRO:HG2	1.86	0.74
1:V:726:LEU:CD1	1:Y:891:ARG:NH1	2.50	0.74
1:Y:726:LEU:CD1	1:b:891:ARG:NH1	2.50	0.74
1:Y:796:LYS:O	1:Y:875:PRO:HG2	1.86	0.74
2:Z:925:ASN:ND2	2:Z:1012:ASN:HB2	2.02	0.74
1:b:726:LEU:CD1	1:e:891:ARG:NH1	2.50	0.74
1:e:796:LYS:O	1:e:875:PRO:HG2	1.86	0.74
2:f:965:TYR:OH	1:h:752:GLY:HA2	1.86	0.74
1:h:796:LYS:O	1:h:875:PRO:HG2	1.86	0.74
1:h:835:GLY:HA3	1:h:878:TYR:O	1.88	0.74
2:E:925:ASN:HB3	2:E:946:ASP:OD1	1.88	0.74
1:S:802:VAL:HG22	1:S:803:PHE:H	1.51	0.74
1:V:736:ASN:HB2	1:V:739:LEU:CG	2.17	0.74
1:V:809:ILE:HG13	1:V:820:ILE:HD13	1.69	0.74
1:h:902:ALA:O	2:i:1029:VAL:HA	1.87	0.74
2:B:925:ASN:HB3	2:B:946:ASP:OD1	1.88	0.73
1:M:721:LEU:CA	1:S:805:LEU:O	2.35	0.73
2:Q:925:ASN:HB3	2:Q:946:ASP:OD1	1.88	0.73
2:Q:925:ASN:ND2	2:Q:1012:ASN:HB2	2.02	0.73
2:Z:980:VAL:CG1	1:b:766:ARG:NH1	2.47	0.73
1:b:720:ASN:CA	1:h:805:LEU:CD2	2.58	0.73
2:i:925:ASN:ND2	2:i:1012:ASN:HB2	2.02	0.73
1:k:796:LYS:O	1:k:875:PRO:HG2	1.86	0.73
1:n:711:SER:CB	1:n:714:SER:HB2	2.13	0.73
1:G:726:LEU:CD1	1:J:891:ARG:NH1	2.50	0.73
2:H:925:ASN:HB3	2:H:946:ASP:OD1	1.88	0.73
1:J:721:LEU:CA	1:P:805:LEU:O	2.35	0.73
1:J:835:GLY:HA3	1:J:878:TYR:O	1.88	0.73
1:P:809:ILE:HG13	1:P:820:ILE:HD13	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:835:GLY:HA3	1:n:878:TYR:O	1.88	0.73
2:o:925:ASN:HB3	2:o:946:ASP:OD1	1.88	0.73
1:A:810:ARG:NH1	1:n:742:PRO:CG	2.47	0.73
2:K:925:ASN:HB3	2:K:946:ASP:OD1	1.88	0.73
3:U:1040:LYS:HG2	3:U:1041:PRO:O	1.89	0.73
2:W:925:ASN:HB3	2:W:946:ASP:OD1	1.88	0.73
1:Y:833:ILE:CD1	1:Y:885:VAL:HG21	2.19	0.73
1:b:833:ILE:CD1	1:b:885:VAL:HG21	2.19	0.73
1:e:833:ILE:CD1	1:e:885:VAL:HG21	2.18	0.73
2:f:925:ASN:ND2	2:f:1012:ASN:HB2	2.02	0.73
3:j:1040:LYS:HG2	3:j:1041:PRO:O	1.89	0.73
1:k:835:GLY:HA3	1:k:878:TYR:O	1.88	0.73
1:D:720:ASN:N	1:J:805:LEU:HD23	2.02	0.73
1:G:721:LEU:CA	1:M:805:LEU:O	2.35	0.73
2:N:925:ASN:ND2	2:N:1012:ASN:HB2	2.02	0.73
1:S:726:LEU:CD1	1:V:891:ARG:NH1	2.50	0.73
1:Y:809:ILE:HG13	1:Y:820:ILE:HD13	1.69	0.73
1:e:711:SER:CB	1:e:714:SER:HB2	2.12	0.73
1:e:845:LEU:O	1:e:849:ILE:HG13	1.89	0.73
2:f:980:VAL:CG1	1:h:766:ARG:NH1	2.47	0.73
1:A:845:LEU:O	1:A:849:ILE:HG13	1.89	0.73
1:D:835:GLY:HA3	1:D:878:TYR:O	1.88	0.73
1:D:845:LEU:O	1:D:849:ILE:HG13	1.89	0.73
3:F:1040:LYS:HG2	3:F:1041:PRO:O	1.89	0.73
1:J:742:PRO:CG	1:M:810:ARG:NH1	2.47	0.73
1:M:829:GLY:HA3	1:P:753:THR:HG21	1.71	0.73
2:N:925:ASN:HB3	2:N:946:ASP:OD1	1.88	0.73
1:P:721:LEU:CA	1:V:805:LEU:O	2.35	0.73
1:S:721:LEU:CA	1:Y:805:LEU:O	2.35	0.73
1:V:833:ILE:CD1	1:V:885:VAL:HG21	2.19	0.73
1:V:902:ALA:CA	2:W:912:THR:HG21	2.19	0.73
2:c:925:ASN:ND2	2:c:1012:ASN:HB2	2.02	0.73
1:e:802:VAL:HG22	1:e:803:PHE:H	1.51	0.73
3:g:1040:LYS:HG2	3:g:1041:PRO:O	1.89	0.73
1:h:711:SER:CB	1:h:714:SER:HB2	2.12	0.73
1:A:805:LEU:O	1:k:721:LEU:CA	2.35	0.73
3:C:1040:LYS:HG2	3:C:1041:PRO:O	1.89	0.73
2:K:980:VAL:CG1	1:M:766:ARG:NH1	2.47	0.73
1:P:781:ILE:HG12	1:P:895:PHE:CE1	2.24	0.73
1:P:829:GLY:HA3	1:S:753:THR:HG21	1.71	0.73
1:S:809:ILE:HG13	1:S:820:ILE:HD13	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:801:ARG:CD	1:Y:759:VAL:HG21	2.19	0.73
3:X:1040:LYS:HG2	3:X:1041:PRO:O	1.89	0.73
1:Y:802:VAL:HG22	1:Y:803:PHE:H	1.51	0.73
1:Y:902:ALA:CA	2:Z:912:THR:HG21	2.19	0.73
1:A:746:MET:HE2	1:A:886:SER:HB3	1.71	0.73
1:S:829:GLY:HA3	1:V:753:THR:HG21	1.71	0.73
1:S:902:ALA:CA	2:T:912:THR:HG21	2.19	0.73
1:V:902:ALA:O	2:W:1029:VAL:HA	1.87	0.73
1:b:720:ASN:N	1:h:805:LEU:HD23	2.02	0.73
1:b:845:LEU:O	1:b:849:ILE:HG13	1.89	0.73
1:e:720:ASN:CA	1:k:805:LEU:CD2	2.58	0.73
1:h:833:ILE:CD1	1:h:885:VAL:HG21	2.19	0.73
1:h:845:LEU:O	1:h:849:ILE:HG13	1.89	0.73
1:k:868:ARG:NH1	1:n:865:GLU:OE1	2.17	0.73
2:l:925:ASN:HB3	2:l:946:ASP:OD1	1.88	0.73
3:m:1040:LYS:HG2	3:m:1041:PRO:O	1.89	0.73
1:n:736:ASN:HB2	1:n:739:LEU:CG	2.17	0.73
2:B:925:ASN:ND2	2:B:1012:ASN:HB2	2.02	0.73
1:D:721:LEU:CA	1:J:805:LEU:O	2.35	0.73
1:D:746:MET:HE2	1:D:886:SER:HB3	1.70	0.73
1:D:781:ILE:HG12	1:D:895:PHE:CZ	2.24	0.73
1:D:781:ILE:HG12	1:D:895:PHE:CE1	2.24	0.73
1:G:781:ILE:HG12	1:G:895:PHE:CZ	2.24	0.73
1:J:726:LEU:CD1	1:M:891:ARG:NH1	2.50	0.73
1:J:829:GLY:HA3	1:M:753:THR:HG21	1.71	0.73
1:M:809:ILE:HG13	1:M:820:ILE:HD13	1.69	0.73
1:P:726:LEU:CD1	1:S:891:ARG:NH1	2.50	0.73
1:Y:736:ASN:HB2	1:Y:739:LEU:CG	2.17	0.73
1:b:711:SER:CB	1:b:714:SER:HB2	2.12	0.73
1:b:902:ALA:CA	2:c:912:THR:HG21	2.19	0.73
1:e:902:ALA:O	2:f:1029:VAL:HA	1.87	0.73
1:n:746:MET:HE2	1:n:886:SER:HB3	1.70	0.73
1:G:781:ILE:HG12	1:G:895:PHE:CE1	2.24	0.73
1:G:845:LEU:O	1:G:849:ILE:HG13	1.89	0.73
2:H:925:ASN:ND2	2:H:1012:ASN:HB2	2.02	0.73
1:M:781:ILE:HG12	1:M:895:PHE:CZ	2.24	0.73
1:M:802:VAL:HG22	1:M:803:PHE:H	1.51	0.73
2:N:980:VAL:HG13	1:P:766:ARG:HH12	1.51	0.73
3:R:1040:LYS:HG2	3:R:1041:PRO:O	1.89	0.73
1:S:781:ILE:HG12	1:S:895:PHE:CE1	2.24	0.73
1:S:833:ILE:CD1	1:S:885:VAL:HG21	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:829:GLY:HA3	1:Y:753:THR:HG21	1.71	0.73
1:h:781:ILE:CD1	1:h:893:LEU:HD12	2.19	0.73
1:k:781:ILE:HG12	1:k:895:PHE:CZ	2.24	0.73
3:I:1040:LYS:HG2	3:I:1041:PRO:O	1.89	0.73
1:M:726:LEU:CD1	1:P:891:ARG:NH1	2.50	0.73
1:P:902:ALA:CA	2:Q:912:THR:HG21	2.19	0.73
1:S:729:SER:HB2	1:V:891:ARG:HD2	1.71	0.73
1:Y:829:GLY:HA3	1:b:753:THR:HG21	1.71	0.73
1:e:781:ILE:CD1	1:e:893:LEU:HD12	2.19	0.73
1:h:801:ARG:CD	1:k:759:VAL:HG21	2.19	0.73
2:i:925:ASN:HB3	2:i:946:ASP:OD1	1.88	0.73
1:k:781:ILE:CD1	1:k:893:LEU:HD12	2.19	0.73
1:A:711:SER:CB	1:A:714:SER:HB2	2.12	0.72
1:A:781:ILE:HG12	1:A:895:PHE:CZ	2.24	0.72
1:G:829:GLY:HA3	1:J:753:THR:HG21	1.71	0.72
1:J:781:ILE:HG12	1:J:895:PHE:CZ	2.24	0.72
1:M:781:ILE:HG12	1:M:895:PHE:CE1	2.24	0.72
1:M:801:ARG:CD	1:P:759:VAL:HG21	2.19	0.72
1:b:781:ILE:CD1	1:b:893:LEU:HD12	2.19	0.72
1:e:781:ILE:HG12	1:e:895:PHE:CZ	2.24	0.72
1:k:833:ILE:CD1	1:k:885:VAL:HG21	2.18	0.72
1:A:809:ILE:HG13	1:A:820:ILE:HD13	1.69	0.72
2:B:980:VAL:CG1	1:D:766:ARG:NH1	2.47	0.72
1:D:809:ILE:HG13	1:D:820:ILE:HD13	1.69	0.72
1:G:835:GLY:HA3	1:G:878:TYR:O	1.88	0.72
1:J:801:ARG:CD	1:M:759:VAL:HG21	2.19	0.72
2:K:925:ASN:ND2	2:K:1012:ASN:HB2	2.02	0.72
1:S:801:ARG:CD	1:V:759:VAL:HG21	2.19	0.72
2:T:925:ASN:HB3	2:T:946:ASP:OD1	1.88	0.72
1:e:902:ALA:CA	2:f:912:THR:HG21	2.19	0.72
1:h:742:PRO:CG	1:k:810:ARG:NH1	2.47	0.72
1:k:801:ARG:CD	1:n:759:VAL:HG21	2.19	0.72
1:n:845:LEU:O	1:n:849:ILE:HG13	1.89	0.72
1:A:781:ILE:HG12	1:A:895:PHE:CE1	2.24	0.72
1:G:746:MET:HE2	1:G:886:SER:HB3	1.70	0.72
1:P:729:SER:HB2	1:S:891:ARG:HD2	1.71	0.72
1:P:833:ILE:CD1	1:P:885:VAL:HG21	2.18	0.72
1:S:742:PRO:CG	1:V:810:ARG:NH1	2.47	0.72
1:Y:720:ASN:N	1:e:805:LEU:HD21	2.05	0.72
1:Y:845:LEU:O	1:Y:849:ILE:HG13	1.89	0.72
1:b:721:LEU:CA	1:h:805:LEU:O	2.35	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:829:GLY:HA3	1:e:753:THR:HG21	1.71	0.72
2:c:980:VAL:CG1	1:e:766:ARG:NH1	2.47	0.72
2:f:925:ASN:HB3	2:f:946:ASP:OD1	1.88	0.72
1:k:746:MET:HE2	1:k:886:SER:HB3	1.71	0.72
1:n:781:ILE:CD1	1:n:893:LEU:HD12	2.19	0.72
1:D:801:ARG:CD	1:G:759:VAL:HG21	2.19	0.72
1:M:902:ALA:CA	2:N:912:THR:HG21	2.19	0.72
1:S:720:ASN:N	1:Y:805:LEU:HD21	2.05	0.72
2:W:980:VAL:CG1	1:Y:766:ARG:NH1	2.47	0.72
1:Y:729:SER:HB2	1:b:891:ARG:HD2	1.71	0.72
1:Y:781:ILE:CD1	1:Y:893:LEU:HD12	2.19	0.72
1:Y:801:ARG:CD	1:b:759:VAL:HG21	2.19	0.72
3:d:1040:LYS:HG2	3:d:1041:PRO:O	1.89	0.72
1:e:801:ARG:CD	1:h:759:VAL:HG21	2.19	0.72
1:h:781:ILE:HG12	1:h:895:PHE:CZ	2.24	0.72
2:i:980:VAL:CG1	1:k:766:ARG:NH1	2.47	0.72
1:n:809:ILE:HG13	1:n:820:ILE:HD13	1.69	0.72
1:A:781:ILE:CD1	1:A:893:LEU:HD12	2.19	0.72
1:A:835:GLY:HA3	1:A:878:TYR:O	1.88	0.72
1:D:829:GLY:HA3	1:G:753:THR:HG21	1.71	0.72
1:G:801:ARG:CD	1:J:759:VAL:HG21	2.19	0.72
1:J:809:ILE:HG13	1:J:820:ILE:HD13	1.69	0.72
1:M:781:ILE:CD1	1:M:893:LEU:HD12	2.19	0.72
1:S:781:ILE:HG12	1:S:895:PHE:CZ	2.24	0.72
1:V:729:SER:HB2	1:Y:891:ARG:HD2	1.71	0.72
1:b:781:ILE:HG12	1:b:895:PHE:CZ	2.24	0.72
2:c:925:ASN:HB3	2:c:946:ASP:OD1	1.88	0.72
1:h:746:MET:HE2	1:h:886:SER:HB3	1.70	0.72
1:n:894:ASP:CG	1:n:896:SER:H	1.98	0.72
3:p:1040:LYS:HG2	3:p:1041:PRO:O	1.89	0.72
1:G:809:ILE:HG13	1:G:820:ILE:HD13	1.69	0.72
1:J:736:ASN:HB2	1:J:739:LEU:CG	2.17	0.72
1:J:845:LEU:O	1:J:849:ILE:HG13	1.89	0.72
1:P:781:ILE:CD1	1:P:893:LEU:HD12	2.19	0.72
1:V:781:ILE:HG12	1:V:895:PHE:CE1	2.24	0.72
1:b:894:ASP:CG	1:b:896:SER:H	1.98	0.72
1:e:809:ILE:HG13	1:e:820:ILE:HD13	1.69	0.72
2:f:915:LEU:HD23	2:f:1028:ASP:HB3	1.71	0.72
1:n:781:ILE:HG12	1:n:895:PHE:CE1	2.24	0.72
1:A:720:ASN:N	1:G:805:LEU:HD23	2.02	0.72
1:J:781:ILE:HG12	1:J:895:PHE:CE1	2.24	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:720:ASN:N	1:V:805:LEU:HD23	2.02	0.72
1:P:802:VAL:HG22	1:P:803:PHE:H	1.51	0.72
1:Y:711:SER:CB	1:Y:714:SER:HB2	2.12	0.72
1:Y:781:ILE:HG12	1:Y:895:PHE:CZ	2.24	0.72
1:Y:894:ASP:CG	1:Y:896:SER:H	1.98	0.72
3:a:1040:LYS:HG2	3:a:1041:PRO:O	1.89	0.72
1:h:720:ASN:CA	1:n:805:LEU:CD2	2.58	0.72
2:i:915:LEU:HD23	2:i:1028:ASP:HB3	1.72	0.72
1:n:781:ILE:HG12	1:n:895:PHE:CZ	2.24	0.72
1:J:720:ASN:N	1:P:805:LEU:HD21	2.05	0.72
1:J:781:ILE:CD1	1:J:893:LEU:HD12	2.19	0.72
3:O:1040:LYS:HG2	3:O:1041:PRO:O	1.89	0.72
1:P:720:ASN:N	1:V:805:LEU:HD21	2.05	0.72
1:V:781:ILE:HG12	1:V:895:PHE:CZ	2.24	0.72
1:b:729:SER:HB2	1:e:891:ARG:HD2	1.71	0.72
1:b:802:VAL:HG22	1:b:803:PHE:H	1.51	0.72
2:c:915:LEU:HD23	2:c:1028:ASP:HB3	1.71	0.72
1:e:781:ILE:HG12	1:e:895:PHE:CE1	2.24	0.72
1:e:829:GLY:HA3	1:h:753:THR:HG21	1.71	0.72
1:h:902:ALA:CA	2:i:912:THR:HG21	2.19	0.72
1:k:781:ILE:HG12	1:k:895:PHE:CE1	2.24	0.72
1:k:845:LEU:O	1:k:849:ILE:HG13	1.89	0.72
1:k:894:ASP:CG	1:k:896:SER:H	1.98	0.72
2:l:915:LEU:HD23	2:l:1028:ASP:HB3	1.72	0.72
1:A:759:VAL:HG21	1:n:801:ARG:CD	2.19	0.72
1:A:894:ASP:CG	1:A:896:SER:H	1.98	0.72
1:D:781:ILE:CD1	1:D:893:LEU:HD12	2.19	0.72
1:P:781:ILE:HG12	1:P:895:PHE:CZ	2.24	0.72
1:S:781:ILE:CD1	1:S:893:LEU:HD12	2.19	0.72
1:V:742:PRO:CG	1:Y:810:ARG:NH1	2.47	0.72
1:V:781:ILE:CD1	1:V:893:LEU:HD12	2.19	0.72
1:V:845:LEU:O	1:V:849:ILE:HG13	1.89	0.72
2:Z:925:ASN:HB3	2:Z:946:ASP:OD1	1.88	0.72
1:b:809:ILE:HG13	1:b:820:ILE:HD13	1.69	0.72
1:e:747:ILE:HG13	1:e:889:VAL:CG2	2.20	0.72
1:k:809:ILE:HG13	1:k:820:ILE:HD13	1.69	0.72
1:n:833:ILE:CD1	1:n:885:VAL:HG21	2.19	0.72
1:A:801:ARG:CD	1:D:759:VAL:HG21	2.19	0.72
1:A:829:GLY:HA3	1:D:753:THR:HG21	1.71	0.72
1:A:865:GLU:OE1	1:n:868:ARG:NH1	2.17	0.72
1:J:902:ALA:CA	2:K:912:THR:HG21	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:1040:LYS:HG2	3:L:1041:PRO:O	1.89	0.72
1:h:829:GLY:HA3	1:k:753:THR:HG21	1.71	0.72
1:n:747:ILE:HG13	1:n:889:VAL:CG2	2.20	0.72
1:A:833:ILE:CD1	1:A:885:VAL:HG21	2.19	0.71
1:D:720:ASN:H	1:J:805:LEU:CD2	2.03	0.71
1:D:805:LEU:CD2	1:n:720:ASN:H	2.03	0.71
1:M:729:SER:HB2	1:P:891:ARG:HD2	1.71	0.71
1:P:720:ASN:H	1:V:805:LEU:CD2	2.03	0.71
1:S:711:SER:HB3	1:S:714:SER:CB	2.14	0.71
1:V:729:SER:CB	1:Y:891:ARG:HD2	2.20	0.71
1:b:736:ASN:HB2	1:b:739:LEU:CG	2.17	0.71
1:e:746:MET:HE2	1:e:886:SER:HB3	1.71	0.71
1:h:720:ASN:H	1:n:805:LEU:CD2	2.03	0.71
1:h:781:ILE:HG12	1:h:895:PHE:CE1	2.24	0.71
2:o:915:LEU:HD23	2:o:1028:ASP:HB3	1.72	0.71
1:D:833:ILE:CD1	1:D:885:VAL:HG21	2.19	0.71
1:G:725:ARG:NH2	1:M:808:ARG:HB2	2.05	0.71
1:G:729:SER:CB	1:J:891:ARG:HD2	2.20	0.71
1:G:902:ALA:CA	2:H:912:THR:HG21	2.19	0.71
1:J:729:SER:HB2	1:M:891:ARG:HD2	1.71	0.71
1:M:729:SER:CB	1:P:891:ARG:HD2	2.20	0.71
1:M:833:ILE:CD1	1:M:885:VAL:HG21	2.19	0.71
1:P:894:ASP:CG	1:P:896:SER:H	1.98	0.71
1:V:720:ASN:N	1:b:805:LEU:HD21	2.05	0.71
1:Y:747:ILE:HG13	1:Y:889:VAL:CG2	2.20	0.71
2:Z:915:LEU:HD23	2:Z:1028:ASP:HB3	1.71	0.71
1:b:735:ALA:HB3	1:b:739:LEU:CD1	2.16	0.71
1:b:781:ILE:HG12	1:b:895:PHE:CE1	2.24	0.71
1:e:894:ASP:CG	1:e:896:SER:H	1.98	0.71
1:k:829:GLY:HA3	1:n:753:THR:HG21	1.71	0.71
1:A:753:THR:HG21	1:n:829:GLY:HA3	1.71	0.71
1:D:736:ASN:HB2	1:D:739:LEU:CG	2.17	0.71
1:D:902:ALA:CA	2:E:912:THR:HG21	2.19	0.71
1:G:736:ASN:HB2	1:G:739:LEU:CG	2.17	0.71
1:G:781:ILE:CD1	1:G:893:LEU:HD12	2.19	0.71
1:J:720:ASN:H	1:P:805:LEU:CD2	2.03	0.71
1:J:746:MET:HE2	1:J:886:SER:HB3	1.71	0.71
2:K:980:VAL:HG13	1:M:766:ARG:HH12	1.51	0.71
1:M:845:LEU:O	1:M:849:ILE:HG13	1.89	0.71
1:P:801:ARG:CD	1:S:759:VAL:HG21	2.19	0.71
1:S:894:ASP:CG	1:S:896:SER:H	1.98	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:980:VAL:CG1	1:V:766:ARG:NH1	2.47	0.71
1:Y:742:PRO:CG	1:b:810:ARG:NH1	2.47	0.71
1:e:735:ALA:HB3	1:e:739:LEU:CD1	2.16	0.71
1:h:735:ALA:HB3	1:h:739:LEU:CD1	2.16	0.71
1:h:747:ILE:HG13	1:h:889:VAL:CG2	2.20	0.71
1:D:711:SER:CB	1:D:714:SER:HB2	2.12	0.71
1:J:894:ASP:CG	1:J:896:SER:H	1.98	0.71
1:M:720:ASN:N	1:S:805:LEU:HD21	2.05	0.71
1:M:894:ASP:CG	1:M:896:SER:H	1.98	0.71
1:P:746:MET:HE2	1:P:886:SER:HB3	1.71	0.71
1:S:746:MET:HE2	1:S:886:SER:HB3	1.70	0.71
1:S:845:LEU:O	1:S:849:ILE:HG13	1.89	0.71
1:Y:729:SER:CB	1:b:891:ARG:HD2	2.21	0.71
1:Y:781:ILE:HG12	1:Y:895:PHE:CE1	2.24	0.71
1:e:729:SER:HB2	1:h:891:ARG:HD2	1.71	0.71
1:h:809:ILE:HG13	1:h:820:ILE:HD13	1.69	0.71
1:A:891:ARG:HD2	1:n:729:SER:HB2	1.71	0.71
1:M:746:MET:HE2	1:M:886:SER:HB3	1.70	0.71
1:V:894:ASP:CG	1:V:896:SER:H	1.98	0.71
1:Y:735:ALA:HB3	1:Y:739:LEU:CD1	2.16	0.71
1:b:729:SER:CB	1:e:891:ARG:HD2	2.20	0.71
1:b:742:PRO:CG	1:e:810:ARG:NH1	2.47	0.71
1:A:729:SER:HB2	1:D:891:ARG:HD2	1.71	0.71
1:A:838:ASP:HB3	1:A:876:THR:OG1	1.91	0.71
1:A:902:ALA:CA	2:B:912:THR:HG21	2.19	0.71
1:D:747:ILE:HG13	1:D:889:VAL:CG2	2.20	0.71
1:D:901:LEU:HB2	1:D:902:ALA:CA	2.21	0.71
1:G:833:ILE:CD1	1:G:885:VAL:HG21	2.19	0.71
1:G:901:LEU:HB2	1:G:902:ALA:CA	2.21	0.71
1:J:729:SER:CB	1:M:891:ARG:HD2	2.21	0.71
1:J:734:MET:HE1	1:J:774:ALA:CB	2.21	0.71
1:J:838:ASP:HB3	1:J:876:THR:OG1	1.91	0.71
1:S:734:MET:HE1	1:S:774:ALA:CB	2.21	0.71
1:S:735:ALA:HB3	1:S:739:LEU:CD1	2.16	0.71
1:V:735:ALA:HB3	1:V:739:LEU:CD1	2.16	0.71
1:Y:734:MET:HE1	1:Y:774:ALA:CB	2.21	0.71
1:b:746:MET:HE2	1:b:886:SER:HB3	1.70	0.71
1:b:801:ARG:CD	1:e:759:VAL:HG21	2.19	0.71
1:b:901:LEU:HB2	1:b:902:ALA:CA	2.21	0.71
1:e:720:ASN:N	1:k:805:LEU:HD21	2.05	0.71
1:e:742:PRO:CG	1:h:810:ARG:NH1	2.47	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:747:ILE:HG13	1:k:889:VAL:CG2	2.20	0.71
1:A:734:MET:HE1	1:A:774:ALA:CB	2.21	0.71
1:A:736:ASN:HB2	1:A:739:LEU:CG	2.17	0.71
1:A:901:LEU:HB2	1:A:902:ALA:CA	2.21	0.71
2:B:915:LEU:HD23	2:B:1028:ASP:HB3	1.71	0.71
1:D:735:ALA:HB3	1:D:739:LEU:CD1	2.16	0.71
1:M:734:MET:HE1	1:M:774:ALA:CB	2.21	0.71
1:P:729:SER:CB	1:S:891:ARG:HD2	2.20	0.71
1:P:845:LEU:O	1:P:849:ILE:HG13	1.89	0.71
1:S:729:SER:CB	1:V:891:ARG:HD2	2.20	0.71
2:W:915:LEU:HD23	2:W:1028:ASP:HB3	1.71	0.71
1:Y:901:LEU:HB2	1:Y:902:ALA:CA	2.21	0.71
1:h:894:ASP:CG	1:h:896:SER:H	1.98	0.71
1:k:729:SER:CB	1:n:891:ARG:HD2	2.20	0.71
2:l:980:VAL:CG1	1:n:766:ARG:NH1	2.47	0.71
1:A:735:ALA:HB3	1:A:739:LEU:CD1	2.16	0.71
1:A:805:LEU:CD2	1:k:720:ASN:CA	2.58	0.71
1:A:891:ARG:HD2	1:n:729:SER:CB	2.20	0.71
1:D:734:MET:HE1	1:D:774:ALA:CB	2.21	0.71
2:E:980:VAL:HG13	1:G:766:ARG:HH12	1.51	0.71
1:e:901:LEU:HB2	1:e:902:ALA:CA	2.21	0.71
1:h:729:SER:HB2	1:k:891:ARG:HD2	1.71	0.71
1:h:901:LEU:HB2	1:h:902:ALA:CA	2.21	0.71
1:k:735:ALA:HB3	1:k:739:LEU:CD1	2.16	0.71
1:k:901:LEU:HB2	1:k:902:ALA:CA	2.21	0.71
1:n:734:MET:HE1	1:n:774:ALA:CB	2.21	0.71
1:D:805:LEU:HD23	1:n:720:ASN:N	2.02	0.71
1:D:894:ASP:CG	1:D:896:SER:H	1.98	0.71
1:J:833:ILE:CD1	1:J:885:VAL:HG21	2.18	0.71
1:J:901:LEU:HB2	1:J:902:ALA:CA	2.21	0.71
1:M:736:ASN:HB2	1:M:739:LEU:CG	2.17	0.71
1:P:734:MET:HE1	1:P:774:ALA:CB	2.21	0.71
1:S:838:ASP:HB3	1:S:876:THR:OG1	1.91	0.71
1:V:734:MET:HE1	1:V:774:ALA:CB	2.21	0.71
1:b:720:ASN:N	1:h:805:LEU:HD21	2.05	0.71
1:e:734:MET:HE1	1:e:774:ALA:CB	2.21	0.71
1:k:838:ASP:HB3	1:k:876:THR:OG1	1.91	0.71
1:n:901:LEU:HB2	1:n:902:ALA:CA	2.21	0.71
1:A:805:LEU:HD21	1:k:720:ASN:N	2.05	0.71
2:B:980:VAL:HG13	1:D:766:ARG:HH12	1.51	0.71
1:G:729:SER:HB2	1:J:891:ARG:HD2	1.71	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:894:ASP:CG	1:G:896:SER:H	1.98	0.71
2:H:980:VAL:HG13	1:J:766:ARG:HH12	1.51	0.71
2:Q:980:VAL:CG1	1:S:766:ARG:NH1	2.47	0.71
1:V:746:MET:HE2	1:V:886:SER:HB3	1.71	0.71
1:V:747:ILE:HG13	1:V:889:VAL:CG2	2.20	0.71
1:V:901:LEU:HB2	1:V:902:ALA:CA	2.21	0.71
1:k:729:SER:HB2	1:n:891:ARG:HD2	1.71	0.71
1:k:902:ALA:CA	2:l:912:THR:HG21	2.19	0.71
1:D:720:ASN:N	1:J:805:LEU:HD21	2.05	0.70
1:D:729:SER:HB2	1:G:891:ARG:HD2	1.71	0.70
1:S:747:ILE:HG13	1:S:889:VAL:CG2	2.20	0.70
1:h:729:SER:CB	1:k:891:ARG:HD2	2.20	0.70
1:A:868:ARG:NH1	1:D:865:GLU:OE1	2.17	0.70
1:D:838:ASP:HB3	1:D:876:THR:OG1	1.91	0.70
2:E:915:LEU:HD23	2:E:1028:ASP:HB3	1.71	0.70
1:G:734:MET:HE1	1:G:774:ALA:CB	2.21	0.70
1:J:747:ILE:HG13	1:J:889:VAL:CG2	2.20	0.70
1:J:867:LEU:HD13	1:M:862:LEU:CD1	2.22	0.70
2:K:952:ARG:HB3	2:K:987:ILE:HG21	1.73	0.70
1:M:901:LEU:HB2	1:M:902:ALA:CA	2.21	0.70
2:N:952:ARG:HB3	2:N:987:ILE:HG21	1.72	0.70
1:b:711:SER:HB3	1:b:714:SER:CB	2.14	0.70
1:n:735:ALA:HB3	1:n:739:LEU:CD1	2.16	0.70
1:n:902:ALA:CA	2:o:912:THR:HG21	2.19	0.70
1:A:720:ASN:N	1:G:805:LEU:HD21	2.05	0.70
1:G:867:LEU:HD13	1:J:862:LEU:CD1	2.22	0.70
2:H:952:ARG:HB3	2:H:987:ILE:HG21	1.73	0.70
1:M:867:LEU:HD13	1:P:862:LEU:CD1	2.22	0.70
1:P:711:SER:HB3	1:P:714:SER:CB	2.14	0.70
1:P:735:ALA:HB3	1:P:739:LEU:CD1	2.16	0.70
1:P:747:ILE:HG13	1:P:889:VAL:CG2	2.20	0.70
1:P:838:ASP:HB3	1:P:876:THR:OG1	1.91	0.70
1:Y:720:ASN:H	1:e:805:LEU:CD2	2.03	0.70
1:Y:746:MET:HE2	1:Y:886:SER:HB3	1.70	0.70
1:b:747:ILE:HG13	1:b:889:VAL:CG2	2.20	0.70
1:e:720:ASN:H	1:k:805:LEU:CD2	2.03	0.70
1:k:734:MET:HE1	1:k:774:ALA:CB	2.21	0.70
1:A:729:SER:CB	1:D:891:ARG:HD2	2.20	0.70
1:A:808:ARG:HB2	1:k:725:ARG:NH2	2.05	0.70
1:A:862:LEU:CD1	1:n:867:LEU:HD13	2.22	0.70
1:M:720:ASN:H	1:S:805:LEU:CD2	2.03	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:735:ALA:HB3	1:M:739:LEU:CD1	2.16	0.70
1:M:838:ASP:HB3	1:M:876:THR:OG1	1.91	0.70
1:P:867:LEU:HD13	1:S:862:LEU:CD1	2.22	0.70
2:Q:952:ARG:HB3	2:Q:987:ILE:HG21	1.72	0.70
1:h:867:LEU:HD13	1:k:862:LEU:CD1	2.22	0.70
1:A:747:ILE:HG13	1:A:889:VAL:CG2	2.20	0.70
2:H:1023:GLY:O	2:H:1031:ARG:HD3	1.91	0.70
2:N:1023:GLY:O	2:N:1031:ARG:HD3	1.91	0.70
2:Q:1023:GLY:O	2:Q:1031:ARG:HD3	1.91	0.70
1:S:901:LEU:HB2	1:S:902:ALA:CA	2.21	0.70
2:T:915:LEU:HD23	2:T:1028:ASP:HB3	1.72	0.70
1:e:711:SER:HB3	1:e:714:SER:CB	2.14	0.70
1:h:838:ASP:HB3	1:h:876:THR:OG1	1.91	0.70
1:A:721:LEU:O	1:G:806:TRP:CA	2.40	0.70
1:A:721:LEU:HB3	1:G:806:TRP:O	1.92	0.70
1:A:766:ARG:HH12	2:o:980:VAL:HG13	1.51	0.70
1:D:725:ARG:NH2	1:J:808:ARG:HB2	2.05	0.70
1:D:729:SER:CB	1:G:891:ARG:HD2	2.21	0.70
1:D:806:TRP:O	1:n:721:LEU:HB3	1.92	0.70
1:G:735:ALA:HB3	1:G:739:LEU:CD1	2.16	0.70
1:G:747:ILE:HG13	1:G:889:VAL:CG2	2.20	0.70
1:G:838:ASP:HB3	1:G:876:THR:OG1	1.91	0.70
2:H:915:LEU:HD23	2:H:1028:ASP:HB3	1.71	0.70
1:P:736:ASN:HB2	1:P:739:LEU:CG	2.17	0.70
1:P:901:LEU:HB2	1:P:902:ALA:CA	2.21	0.70
2:T:952:ARG:HB3	2:T:987:ILE:HG21	1.72	0.70
1:Y:838:ASP:HB3	1:Y:876:THR:OG1	1.91	0.70
1:b:867:LEU:HD13	1:e:862:LEU:CD1	2.22	0.70
1:e:729:SER:CB	1:h:891:ARG:HD2	2.21	0.70
1:h:720:ASN:N	1:n:805:LEU:HD21	2.05	0.70
1:D:721:LEU:O	1:J:806:TRP:CA	2.40	0.70
1:D:721:LEU:HB3	1:J:806:TRP:O	1.92	0.70
1:D:867:LEU:HD13	1:G:862:LEU:CD1	2.22	0.70
2:E:952:ARG:HB3	2:E:987:ILE:HG21	1.73	0.70
1:G:720:ASN:H	1:M:805:LEU:CD2	2.03	0.70
1:G:721:LEU:HB3	1:M:806:TRP:O	1.92	0.70
1:J:721:LEU:HB3	1:P:806:TRP:O	1.92	0.70
1:J:735:ALA:HB3	1:J:739:LEU:CD1	2.16	0.70
2:K:1023:GLY:O	2:K:1031:ARG:HD3	1.91	0.70
1:M:721:LEU:HB3	1:S:806:TRP:O	1.92	0.70
1:M:747:ILE:HG13	1:M:889:VAL:CG2	2.20	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:721:LEU:HB3	1:V:806:TRP:O	1.92	0.70
1:S:867:LEU:HD13	1:V:862:LEU:CD1	2.22	0.70
1:Y:711:SER:HB3	1:Y:714:SER:CB	2.14	0.70
1:b:720:ASN:H	1:h:805:LEU:CD2	2.03	0.70
1:b:734:MET:HE1	1:b:774:ALA:CB	2.21	0.70
1:e:838:ASP:HB3	1:e:876:THR:OG1	1.91	0.70
1:A:806:TRP:CA	1:k:721:LEU:O	2.40	0.70
1:A:806:TRP:O	1:k:721:LEU:HB3	1.92	0.70
1:G:720:ASN:N	1:M:805:LEU:HD21	2.05	0.70
2:K:915:LEU:HD23	2:K:1028:ASP:HB3	1.71	0.70
1:S:721:LEU:HB3	1:Y:806:TRP:O	1.92	0.70
1:S:765:CYS:SG	1:S:787:VAL:HB	2.32	0.70
2:T:1023:GLY:O	2:T:1031:ARG:HD3	1.91	0.70
1:V:721:LEU:HB3	1:b:806:TRP:O	1.92	0.70
2:W:952:ARG:HB3	2:W:987:ILE:HG21	1.73	0.70
1:e:736:ASN:HB2	1:e:739:LEU:CG	2.17	0.70
1:h:725:ARG:NH2	1:n:808:ARG:HB2	2.05	0.70
1:h:734:MET:HE1	1:h:774:ALA:CB	2.21	0.70
1:A:805:LEU:CD2	1:k:720:ASN:H	2.03	0.70
1:J:721:LEU:O	1:P:806:TRP:CA	2.40	0.70
1:e:867:LEU:HD13	1:h:862:LEU:CD1	2.22	0.70
1:h:721:LEU:O	1:n:806:TRP:CA	2.40	0.70
1:k:867:LEU:HD13	1:n:862:LEU:CD1	2.22	0.70
1:n:838:ASP:HB3	1:n:876:THR:OG1	1.91	0.70
1:A:805:LEU:HD23	1:k:720:ASN:N	2.02	0.70
2:N:915:LEU:HD23	2:N:1028:ASP:HB3	1.72	0.70
1:P:765:CYS:SG	1:P:787:VAL:HB	2.32	0.70
1:S:720:ASN:H	1:Y:805:LEU:CD2	2.03	0.70
1:V:765:CYS:SG	1:V:787:VAL:HB	2.32	0.70
1:V:867:LEU:HD13	1:Y:862:LEU:CD1	2.22	0.70
1:Y:867:LEU:HD13	1:b:862:LEU:CD1	2.22	0.70
1:e:721:LEU:HB3	1:k:806:TRP:O	1.92	0.70
1:n:739:LEU:HA	1:n:896:SER:HB2	1.74	0.70
1:A:720:ASN:H	1:G:805:LEU:CD2	2.03	0.69
1:A:739:LEU:HA	1:A:896:SER:HB2	1.74	0.69
1:A:765:CYS:SG	1:A:787:VAL:HB	2.32	0.69
1:A:766:ARG:NH1	2:o:980:VAL:CG1	2.47	0.69
2:B:952:ARG:HB3	2:B:987:ILE:HG21	1.73	0.69
1:D:725:ARG:NH1	1:J:808:ARG:CD	2.55	0.69
1:D:765:CYS:SG	1:D:787:VAL:HB	2.32	0.69
1:D:805:LEU:CD2	1:n:720:ASN:CA	2.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:805:LEU:HD21	1:n:720:ASN:N	2.05	0.69
2:Q:915:LEU:HD23	2:Q:1028:ASP:HB3	1.72	0.69
1:h:721:LEU:HB3	1:n:806:TRP:O	1.92	0.69
1:A:867:LEU:HD13	1:D:862:LEU:CD1	2.22	0.69
1:J:725:ARG:NH1	1:P:808:ARG:CD	2.56	0.69
1:Y:765:CYS:SG	1:Y:787:VAL:HB	2.32	0.69
2:Z:952:ARG:HB3	2:Z:987:ILE:HG21	1.73	0.69
1:b:721:LEU:HB3	1:h:806:TRP:O	1.92	0.69
1:b:838:ASP:HB3	1:b:876:THR:OG1	1.91	0.69
2:c:1023:GLY:O	2:c:1031:ARG:HD3	1.91	0.69
1:h:711:SER:HB3	1:h:714:SER:CB	2.14	0.69
1:h:722:THR:OG1	1:n:821:ASP:OD1	2.11	0.69
1:k:739:LEU:HA	1:k:896:SER:HB2	1.74	0.69
1:k:765:CYS:SG	1:k:787:VAL:HB	2.32	0.69
1:A:821:ASP:OD1	1:k:722:THR:OG1	2.11	0.69
1:A:902:ALA:HB1	2:B:912:THR:HG21	1.74	0.69
1:D:739:LEU:HA	1:D:896:SER:HB2	1.74	0.69
1:V:838:ASP:HB3	1:V:876:THR:OG1	1.91	0.69
1:Y:721:LEU:HB3	1:e:806:TRP:O	1.92	0.69
1:b:722:THR:OG1	1:h:821:ASP:OD1	2.11	0.69
1:e:722:THR:OG1	1:k:821:ASP:OD1	2.11	0.69
1:h:748:PRO:O	1:h:768:SER:HB2	1.93	0.69
1:h:765:CYS:SG	1:h:787:VAL:HB	2.32	0.69
2:l:980:VAL:HG13	1:n:766:ARG:HH12	1.51	0.69
2:W:1023:GLY:O	2:W:1031:ARG:HD3	1.91	0.69
1:b:765:CYS:SG	1:b:787:VAL:HB	2.32	0.69
2:f:1023:GLY:O	2:f:1031:ARG:HD3	1.91	0.69
2:i:1023:GLY:O	2:i:1031:ARG:HD3	1.91	0.69
1:k:748:PRO:O	1:k:768:SER:HB2	1.93	0.69
1:n:902:ALA:HB1	2:o:912:THR:HG21	1.74	0.69
1:D:821:ASP:OD1	1:n:722:THR:OG1	2.11	0.69
1:D:868:ARG:NH1	1:G:865:GLU:OE1	2.17	0.69
1:G:758:THR:HA	1:G:876:THR:HG22	1.75	0.69
1:M:721:LEU:O	1:S:806:TRP:CA	2.40	0.69
1:Y:722:THR:OG1	1:e:821:ASP:OD1	2.11	0.69
2:c:952:ARG:HB3	2:c:987:ILE:HG21	1.73	0.69
1:e:748:PRO:O	1:e:768:SER:HB2	1.93	0.69
1:n:748:PRO:O	1:n:768:SER:HB2	1.93	0.69
1:n:765:CYS:SG	1:n:787:VAL:HB	2.32	0.69
2:o:952:ARG:HB3	2:o:987:ILE:HG21	1.72	0.69
2:B:1023:GLY:O	2:B:1031:ARG:HD3	1.91	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:725:ARG:HH11	1:M:819:ASN:HB3	1.58	0.69
1:G:765:CYS:SG	1:G:787:VAL:HB	2.32	0.69
1:M:711:SER:HB3	1:M:714:SER:CB	2.14	0.69
1:M:725:ARG:NH1	1:S:808:ARG:CD	2.55	0.69
1:V:711:SER:HB3	1:V:714:SER:CB	2.14	0.69
2:Z:1023:GLY:O	2:Z:1031:ARG:HD3	1.91	0.69
1:h:739:LEU:HA	1:h:896:SER:HB2	1.74	0.69
2:l:1023:GLY:O	2:l:1031:ARG:HD3	1.91	0.69
1:A:748:PRO:O	1:A:768:SER:HB2	1.93	0.69
1:D:841:MET:O	1:D:845:LEU:HD22	1.93	0.69
1:G:739:LEU:HA	1:G:896:SER:HB2	1.74	0.69
1:J:841:MET:O	1:J:845:LEU:HD22	1.93	0.69
1:M:725:ARG:HH11	1:S:819:ASN:HB3	1.58	0.69
1:M:765:CYS:SG	1:M:787:VAL:HB	2.32	0.69
1:P:725:ARG:HH11	1:V:819:ASN:HB3	1.58	0.69
1:S:725:ARG:HH11	1:Y:819:ASN:HB3	1.58	0.69
1:V:721:LEU:O	1:b:806:TRP:CA	2.40	0.69
1:V:725:ARG:HH11	1:b:819:ASN:HB3	1.58	0.69
1:Y:902:ALA:HB1	2:Z:912:THR:HG21	1.74	0.69
1:b:721:LEU:O	1:h:806:TRP:CA	2.40	0.69
1:e:765:CYS:SG	1:e:787:VAL:HB	2.32	0.69
1:A:722:THR:OG1	1:G:821:ASP:OD1	2.11	0.69
1:A:725:ARG:NH1	1:G:808:ARG:CD	2.55	0.69
1:D:806:TRP:CA	1:n:721:LEU:O	2.40	0.69
1:D:808:ARG:CD	1:n:725:ARG:NH1	2.55	0.69
1:D:902:ALA:HB1	2:E:912:THR:HG21	1.74	0.69
2:E:1023:GLY:O	2:E:1031:ARG:HD3	1.91	0.69
1:G:721:LEU:O	1:M:806:TRP:CA	2.40	0.69
2:H:980:VAL:CG1	1:J:766:ARG:NH1	2.47	0.69
3:I:1057:ILE:HG23	3:I:1058:PRO:HD2	1.75	0.69
1:J:725:ARG:HH11	1:P:819:ASN:HB3	1.58	0.69
1:J:758:THR:HA	1:J:876:THR:HG22	1.75	0.69
1:P:725:ARG:NH1	1:V:808:ARG:CD	2.56	0.69
1:S:721:LEU:O	1:Y:806:TRP:CA	2.40	0.69
1:S:725:ARG:NH1	1:Y:808:ARG:CD	2.55	0.69
1:V:722:THR:OG1	1:b:821:ASP:OD1	2.11	0.69
1:V:739:LEU:HA	1:V:896:SER:HB2	1.74	0.69
1:V:758:THR:HA	1:V:876:THR:HG22	1.75	0.69
1:V:902:ALA:HB1	2:W:912:THR:HG21	1.74	0.69
1:Y:721:LEU:O	1:e:806:TRP:CA	2.40	0.69
1:Y:748:PRO:O	1:Y:768:SER:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:758:THR:HA	1:Y:876:THR:HG22	1.75	0.69
1:b:748:PRO:O	1:b:768:SER:HB2	1.93	0.69
1:b:902:ALA:HB1	2:c:912:THR:HG21	1.74	0.69
1:e:841:MET:O	1:e:845:LEU:HD22	1.93	0.69
2:f:952:ARG:HB3	2:f:987:ILE:HG21	1.73	0.69
1:h:725:ARG:HH11	1:n:819:ASN:HB3	1.58	0.69
2:i:952:ARG:HB3	2:i:987:ILE:HG21	1.72	0.69
1:k:841:MET:O	1:k:845:LEU:HD22	1.93	0.69
2:l:952:ARG:HB3	2:l:987:ILE:HG21	1.72	0.69
1:D:725:ARG:HH11	1:J:819:ASN:HB3	1.58	0.69
1:P:739:LEU:HA	1:P:896:SER:HB2	1.74	0.69
3:R:1057:ILE:HG23	3:R:1058:PRO:HD2	1.75	0.69
1:S:739:LEU:HA	1:S:896:SER:HB2	1.74	0.69
2:T:937:ARG:HA	2:T:940:GLN:NE2	2.08	0.69
1:Y:841:MET:O	1:Y:845:LEU:HD22	1.93	0.69
2:c:937:ARG:HA	2:c:940:GLN:NE2	2.08	0.69
1:e:725:ARG:NH2	1:k:808:ARG:HB2	2.05	0.69
1:A:758:THR:HA	1:A:876:THR:HG22	1.75	0.69
1:A:808:ARG:CD	1:k:725:ARG:NH1	2.56	0.69
1:A:819:ASN:HB3	1:k:725:ARG:HH11	1.58	0.69
1:G:723:PRO:HD2	1:M:788:ASP:CG	2.18	0.69
1:G:902:ALA:HB1	2:H:912:THR:HG21	1.74	0.69
2:H:937:ARG:HA	2:H:940:GLN:NE2	2.08	0.69
2:N:937:ARG:HA	2:N:940:GLN:NE2	2.08	0.69
2:Q:937:ARG:HA	2:Q:940:GLN:NE2	2.08	0.69
1:e:739:LEU:HA	1:e:896:SER:HB2	1.74	0.69
2:i:980:VAL:HG13	1:k:766:ARG:HH12	1.51	0.69
1:n:841:MET:O	1:n:845:LEU:HD22	1.93	0.69
1:A:810:ARG:HA	1:A:817:ILE:HA	1.75	0.68
1:D:758:THR:HA	1:D:876:THR:HG22	1.75	0.68
1:G:748:PRO:O	1:G:768:SER:HB2	1.93	0.68
1:J:739:LEU:HA	1:J:896:SER:HB2	1.74	0.68
3:L:1057:ILE:HG23	3:L:1058:PRO:HD2	1.75	0.68
1:S:902:ALA:HB1	2:T:912:THR:HG21	1.74	0.68
1:V:841:MET:O	1:V:845:LEU:HD22	1.93	0.68
1:Y:725:ARG:HH11	1:e:819:ASN:HB3	1.58	0.68
1:Y:739:LEU:HA	1:Y:896:SER:HB2	1.74	0.68
1:k:902:ALA:HB1	2:l:912:THR:HG21	1.74	0.68
1:D:748:PRO:O	1:D:768:SER:HB2	1.93	0.68
1:J:765:CYS:SG	1:J:787:VAL:HB	2.32	0.68
1:M:725:ARG:HH12	1:S:808:ARG:CD	2.06	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:721:LEU:HD23	1:Y:805:LEU:HB2	1.69	0.68
2:W:937:ARG:HA	2:W:940:GLN:NE2	2.08	0.68
1:b:725:ARG:HH12	1:h:808:ARG:CD	2.06	0.68
1:k:711:SER:HB3	1:k:714:SER:CB	2.14	0.68
1:n:810:ARG:HA	1:n:817:ILE:HA	1.75	0.68
1:D:810:ARG:HA	1:D:817:ILE:HA	1.75	0.68
1:S:758:THR:HA	1:S:876:THR:HG22	1.75	0.68
3:U:1057:ILE:HG23	3:U:1058:PRO:HD2	1.75	0.68
1:V:723:PRO:HD2	1:b:788:ASP:CG	2.18	0.68
2:Z:937:ARG:HA	2:Z:940:GLN:NE2	2.08	0.68
1:h:801:ARG:HB3	1:h:834:PRO:HA	1.76	0.68
1:h:902:ALA:HB1	2:i:912:THR:HG21	1.74	0.68
1:k:801:ARG:HB3	1:k:834:PRO:HA	1.76	0.68
1:A:801:ARG:HB3	1:A:834:PRO:HA	1.76	0.68
3:C:1057:ILE:HG23	3:C:1058:PRO:HD2	1.75	0.68
1:J:723:PRO:HD2	1:P:788:ASP:CG	2.18	0.68
1:M:841:MET:O	1:M:845:LEU:HD22	1.93	0.68
3:O:1057:ILE:HG23	3:O:1058:PRO:HD2	1.75	0.68
1:e:721:LEU:O	1:k:806:TRP:CA	2.40	0.68
1:e:725:ARG:HH11	1:k:819:ASN:HB3	1.58	0.68
1:e:902:ALA:HB1	2:f:912:THR:HG21	1.74	0.68
1:k:810:ARG:HA	1:k:817:ILE:HA	1.75	0.68
1:A:841:MET:O	1:A:845:LEU:HD22	1.93	0.68
1:D:722:THR:OG1	1:J:821:ASP:OD1	2.11	0.68
3:F:1057:ILE:HG23	3:F:1058:PRO:HD2	1.75	0.68
1:J:902:ALA:HB1	2:K:912:THR:HG21	1.74	0.68
2:K:937:ARG:HA	2:K:940:GLN:NE2	2.08	0.68
1:M:726:LEU:CD2	1:P:891:ARG:HH22	2.04	0.68
1:M:758:THR:HA	1:M:876:THR:HG22	1.75	0.68
2:N:980:VAL:CG1	1:P:766:ARG:NH1	2.47	0.68
1:P:721:LEU:O	1:V:806:TRP:CA	2.40	0.68
1:S:726:LEU:CD2	1:V:891:ARG:HH22	2.04	0.68
1:V:729:SER:HG	1:Y:818:VAL:HG22	1.55	0.68
1:V:748:PRO:O	1:V:768:SER:HB2	1.93	0.68
1:Y:725:ARG:NH1	1:e:808:ARG:CD	2.55	0.68
1:b:758:THR:HA	1:b:876:THR:HG22	1.75	0.68
1:e:758:THR:HA	1:e:876:THR:HG22	1.75	0.68
2:i:937:ARG:HA	2:i:940:GLN:NE2	2.08	0.68
1:n:801:ARG:HB3	1:n:834:PRO:HA	1.76	0.68
1:A:810:ARG:CZ	1:n:742:PRO:HB2	2.24	0.68
1:D:723:PRO:HD2	1:J:788:ASP:CG	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:801:ARG:HB3	1:D:834:PRO:HA	1.76	0.68
1:J:725:ARG:HH12	1:P:808:ARG:CD	2.06	0.68
1:M:742:PRO:HB2	1:P:810:ARG:CZ	2.24	0.68
1:P:841:MET:O	1:P:845:LEU:HD22	1.93	0.68
1:S:722:THR:OG1	1:Y:821:ASP:OD1	2.11	0.68
1:S:723:PRO:HD2	1:Y:788:ASP:CG	2.18	0.68
1:S:742:PRO:HB2	1:V:810:ARG:CZ	2.24	0.68
1:Y:725:ARG:HH12	1:e:808:ARG:CD	2.06	0.68
1:Y:726:LEU:CD1	1:b:890:ALA:O	2.42	0.68
1:b:742:PRO:HB2	1:e:810:ARG:CZ	2.24	0.68
1:e:725:ARG:HH12	1:k:808:ARG:CD	2.06	0.68
1:e:801:ARG:HB3	1:e:834:PRO:HA	1.76	0.68
1:A:742:PRO:HB2	1:D:810:ARG:CZ	2.24	0.68
1:P:748:PRO:O	1:P:768:SER:HB2	1.93	0.68
1:S:841:MET:O	1:S:845:LEU:HD22	1.93	0.68
2:W:980:VAL:HG13	1:Y:766:ARG:HH11	1.57	0.68
3:X:1057:ILE:HG23	3:X:1058:PRO:HD2	1.75	0.68
1:e:725:ARG:NH1	1:k:808:ARG:CD	2.56	0.68
1:h:810:ARG:HA	1:h:817:ILE:HA	1.75	0.68
2:l:963:GLN:HG2	1:n:752:GLY:HA2	1.75	0.68
1:A:725:ARG:HH12	1:G:808:ARG:CD	2.06	0.68
1:A:752:GLY:HA2	2:o:963:GLN:HG2	1.75	0.68
1:G:801:ARG:HB3	1:G:834:PRO:HA	1.76	0.68
1:J:722:THR:OG1	1:P:821:ASP:OD1	2.11	0.68
1:J:748:PRO:O	1:J:768:SER:HB2	1.93	0.68
2:Q:963:GLN:HG2	1:S:752:GLY:HA2	1.75	0.68
1:S:748:PRO:O	1:S:768:SER:HB2	1.93	0.68
2:Z:980:VAL:HG13	1:b:766:ARG:HH11	1.57	0.68
1:b:725:ARG:HH11	1:h:819:ASN:HB3	1.58	0.68
1:b:841:MET:O	1:b:845:LEU:HD22	1.93	0.68
2:c:954:GLU:CB	2:c:987:ILE:HG12	2.24	0.68
2:c:1030:ARG:HH21	2:c:1032:VAL:HG11	1.59	0.68
1:e:726:LEU:CD1	1:h:890:ALA:O	2.42	0.68
1:h:742:PRO:HB2	1:k:810:ARG:CZ	2.24	0.68
2:i:963:GLN:HG2	1:k:752:GLY:HA2	1.75	0.68
1:k:758:THR:HA	1:k:876:THR:HG22	1.75	0.68
1:n:758:THR:HA	1:n:876:THR:HG22	1.75	0.68
1:D:819:ASN:HB3	1:n:725:ARG:HH11	1.58	0.68
2:E:937:ARG:HA	2:E:940:GLN:NE2	2.08	0.68
1:J:711:SER:HB3	1:J:714:SER:CB	2.14	0.68
1:M:723:PRO:HD2	1:S:788:ASP:CG	2.18	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:739:LEU:HA	1:M:896:SER:HB2	1.74	0.68
1:M:825:THR:HG22	1:M:831:ALA:HA	1.76	0.68
1:P:725:ARG:HH12	1:V:808:ARG:CD	2.06	0.68
1:S:825:THR:HG22	1:S:831:ALA:HA	1.76	0.68
1:Y:723:PRO:HD2	1:e:788:ASP:CG	2.18	0.68
1:b:739:LEU:HA	1:b:896:SER:HB2	1.74	0.68
1:b:801:ARG:HB3	1:b:834:PRO:HA	1.76	0.68
2:i:980:VAL:HG13	1:k:766:ARG:HH11	1.57	0.68
2:o:937:ARG:HA	2:o:940:GLN:NE2	2.08	0.68
2:o:1023:GLY:O	2:o:1031:ARG:HD3	1.91	0.68
1:A:725:ARG:HH11	1:G:819:ASN:HB3	1.58	0.68
2:B:937:ARG:HA	2:B:940:GLN:NE2	2.08	0.68
2:B:963:GLN:HG2	1:D:752:GLY:HA2	1.75	0.68
1:G:825:THR:HG22	1:G:831:ALA:HA	1.76	0.68
1:J:825:THR:HG22	1:J:831:ALA:HA	1.76	0.68
2:N:963:GLN:HG2	1:P:752:GLY:HA2	1.75	0.68
1:P:742:PRO:HB2	1:S:810:ARG:CZ	2.24	0.68
1:S:726:LEU:CD1	1:V:890:ALA:O	2.42	0.68
2:T:963:GLN:HG2	1:V:752:GLY:HA2	1.75	0.68
2:T:966:MET:HE2	2:T:974:THR:HB	1.76	0.68
1:V:725:ARG:NH1	1:b:808:ARG:CD	2.55	0.68
1:Y:742:PRO:HB2	1:b:810:ARG:CZ	2.24	0.68
2:Z:1030:ARG:HH21	2:Z:1032:VAL:HG11	1.59	0.68
2:f:980:VAL:HG13	1:h:766:ARG:HH12	1.51	0.68
1:h:725:ARG:NH1	1:n:808:ARG:CD	2.55	0.68
1:h:841:MET:O	1:h:845:LEU:HD22	1.93	0.68
2:l:954:GLU:CB	2:l:987:ILE:HG12	2.24	0.68
2:o:966:MET:HE2	2:o:974:THR:HB	1.76	0.68
3:p:1057:ILE:HG23	3:p:1058:PRO:HD2	1.75	0.68
1:A:725:ARG:NH2	1:G:808:ARG:HB2	2.05	0.67
2:B:966:MET:HE2	2:B:974:THR:HB	1.76	0.67
1:D:725:ARG:HH12	1:J:808:ARG:CD	2.06	0.67
1:D:808:ARG:CD	1:n:725:ARG:HH12	2.06	0.67
1:D:825:THR:HG22	1:D:831:ALA:HA	1.76	0.67
2:E:973:GLU:OE2	2:E:998:ARG:HG3	1.95	0.67
2:N:973:GLU:OE2	2:N:998:ARG:HG3	1.95	0.67
1:P:726:LEU:CD1	1:S:890:ALA:O	2.42	0.67
1:P:902:ALA:HB1	2:Q:912:THR:HG21	1.74	0.67
1:V:726:LEU:CD1	1:Y:890:ALA:O	2.42	0.67
1:Y:767:VAL:HG23	1:Y:785:SER:O	1.95	0.67
1:b:767:VAL:HG23	1:b:785:SER:O	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:758:THR:HA	1:h:876:THR:HG22	1.75	0.67
2:l:966:MET:HE2	2:l:974:THR:HB	1.76	0.67
1:G:722:THR:OG1	1:M:821:ASP:OD1	2.11	0.67
1:G:742:PRO:HB3	1:J:810:ARG:HD3	1.77	0.67
1:G:810:ARG:HA	1:G:817:ILE:HA	1.75	0.67
2:H:973:GLU:OE2	2:H:998:ARG:HG3	1.95	0.67
1:J:742:PRO:HB3	1:M:810:ARG:HD3	1.77	0.67
1:M:748:PRO:O	1:M:768:SER:HB2	1.93	0.67
1:P:723:PRO:HD2	1:V:788:ASP:CG	2.18	0.67
1:P:825:THR:HG22	1:P:831:ALA:HA	1.76	0.67
2:T:954:GLU:CB	2:T:987:ILE:HG12	2.24	0.67
1:V:720:ASN:H	1:b:805:LEU:CD2	2.03	0.67
1:V:721:LEU:HD23	1:b:805:LEU:HB2	1.70	0.67
1:V:767:VAL:HG23	1:V:785:SER:O	1.95	0.67
2:W:954:GLU:CB	2:W:987:ILE:HG12	2.24	0.67
2:W:963:GLN:HG2	1:Y:752:GLY:HA2	1.75	0.67
1:e:767:VAL:HG23	1:e:785:SER:O	1.95	0.67
1:e:810:ARG:HA	1:e:817:ILE:HA	1.75	0.67
2:f:937:ARG:HA	2:f:940:GLN:NE2	2.08	0.67
2:f:963:GLN:HG2	1:h:752:GLY:HA2	1.75	0.67
2:i:966:MET:HE2	2:i:974:THR:HB	1.76	0.67
2:l:937:ARG:HA	2:l:940:GLN:NE2	2.08	0.67
1:n:892:ASP:C	1:n:893:LEU:HD23	2.20	0.67
2:o:1030:ARG:HH21	2:o:1032:VAL:HG11	1.59	0.67
1:A:825:THR:HG22	1:A:831:ALA:HA	1.76	0.67
2:B:954:GLU:CB	2:B:987:ILE:HG12	2.24	0.67
1:D:742:PRO:HB3	1:G:810:ARG:HD3	1.77	0.67
2:K:963:GLN:HG2	1:M:752:GLY:HA2	1.75	0.67
2:N:1030:ARG:HH21	2:N:1032:VAL:HG11	1.59	0.67
1:P:722:THR:OG1	1:V:821:ASP:OD1	2.11	0.67
1:P:891:ARG:HH11	1:P:891:ARG:CB	2.06	0.67
2:Q:1030:ARG:HH21	2:Q:1032:VAL:HG11	1.59	0.67
1:V:742:PRO:HB2	1:Y:810:ARG:CZ	2.24	0.67
1:V:810:ARG:HA	1:V:817:ILE:HA	1.75	0.67
1:Y:892:ASP:C	1:Y:893:LEU:HD23	2.20	0.67
3:a:1057:ILE:HG23	3:a:1058:PRO:HD2	1.75	0.67
1:b:725:ARG:NH2	1:h:808:ARG:HB2	2.05	0.67
1:b:892:ASP:C	1:b:893:LEU:HD23	2.20	0.67
2:f:931:SER:O	2:f:932:GLU:HG2	1.95	0.67
1:h:723:PRO:HD2	1:n:788:ASP:CG	2.18	0.67
2:i:931:SER:O	2:i:932:GLU:HG2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:954:GLU:CB	2:i:987:ILE:HG12	2.24	0.67
1:k:742:PRO:HB2	1:n:810:ARG:CZ	2.24	0.67
2:l:932:GLU:HG3	3:m:1051:VAL:CG2	2.25	0.67
2:l:980:VAL:HG13	1:n:766:ARG:HH11	1.57	0.67
1:A:808:ARG:CD	1:k:725:ARG:HH12	2.06	0.67
1:A:810:ARG:HD3	1:n:742:PRO:HB3	1.76	0.67
2:B:973:GLU:OE2	2:B:998:ARG:HG3	1.95	0.67
2:E:963:GLN:HG2	1:G:752:GLY:HA2	1.75	0.67
1:G:725:ARG:HH12	1:M:808:ARG:CD	2.06	0.67
1:J:742:PRO:HB2	1:M:810:ARG:CZ	2.24	0.67
1:J:801:ARG:HB3	1:J:834:PRO:HA	1.76	0.67
2:K:931:SER:O	2:K:932:GLU:HG2	1.95	0.67
2:K:973:GLU:OE2	2:K:998:ARG:HG3	1.95	0.67
1:M:722:THR:OG1	1:S:821:ASP:OD1	2.11	0.67
2:N:966:MET:HE2	2:N:974:THR:HB	1.76	0.67
1:P:892:ASP:C	1:P:893:LEU:HD23	2.20	0.67
2:Z:932:GLU:HG3	3:a:1051:VAL:CG2	2.25	0.67
1:e:742:PRO:HB2	1:h:810:ARG:CZ	2.24	0.67
1:h:767:VAL:HG23	1:h:785:SER:O	1.95	0.67
2:i:932:GLU:HG3	3:j:1051:VAL:CG2	2.25	0.67
1:k:767:VAL:HG23	1:k:785:SER:O	1.95	0.67
2:l:931:SER:O	2:l:932:GLU:HG2	1.95	0.67
1:A:742:PRO:HB3	1:D:810:ARG:HD3	1.77	0.67
1:A:788:ASP:CG	1:k:723:PRO:HD2	2.18	0.67
2:B:931:SER:O	2:B:932:GLU:HG2	1.95	0.67
1:D:892:ASP:C	1:D:893:LEU:HD23	2.20	0.67
1:G:841:MET:O	1:G:845:LEU:HD22	1.93	0.67
1:M:892:ASP:C	1:M:893:LEU:HD23	2.20	0.67
1:S:810:ARG:HA	1:S:817:ILE:HA	1.75	0.67
2:T:931:SER:O	2:T:932:GLU:HG2	1.95	0.67
2:W:931:SER:O	2:W:932:GLU:HG2	1.95	0.67
2:W:932:GLU:HG3	3:X:1051:VAL:CG2	2.25	0.67
1:Y:801:ARG:HB3	1:Y:834:PRO:HA	1.76	0.67
2:Z:931:SER:O	2:Z:932:GLU:HG2	1.95	0.67
2:c:931:SER:O	2:c:932:GLU:HG2	1.95	0.67
2:c:963:GLN:HG2	1:e:752:GLY:HA2	1.75	0.67
1:e:723:PRO:HD2	1:k:788:ASP:CG	2.18	0.67
2:f:932:GLU:HG3	3:g:1051:VAL:CG2	2.25	0.67
2:f:1030:ARG:HH21	2:f:1032:VAL:HG11	1.59	0.67
1:k:742:PRO:HB3	1:n:810:ARG:HD3	1.77	0.67
1:k:757:THR:CG2	1:k:791:ILE:HD13	2.25	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:m:1057:ILE:HG23	3:m:1058:PRO:HD2	1.75	0.67
2:o:932:GLU:HG3	3:p:1051:VAL:CG2	2.25	0.67
2:B:1030:ARG:HH21	2:B:1032:VAL:HG11	1.59	0.67
1:G:726:LEU:CD2	1:J:891:ARG:HH22	2.04	0.67
2:H:963:GLN:HG2	1:J:752:GLY:HA2	1.75	0.67
1:M:721:LEU:HD22	1:S:823:ALA:HA	1.77	0.67
1:M:742:PRO:HB3	1:P:810:ARG:HD3	1.77	0.67
2:N:954:GLU:CB	2:N:987:ILE:HG12	2.24	0.67
1:P:758:THR:HA	1:P:876:THR:HG22	1.75	0.67
1:P:767:VAL:HG23	1:P:785:SER:O	1.95	0.67
2:Q:931:SER:O	2:Q:932:GLU:HG2	1.95	0.67
1:S:767:VAL:HG23	1:S:785:SER:O	1.95	0.67
2:T:973:GLU:OE2	2:T:998:ARG:HG3	1.94	0.67
1:V:721:LEU:HD22	1:b:823:ALA:HA	1.77	0.67
1:V:825:THR:HG22	1:V:831:ALA:HA	1.76	0.67
2:c:932:GLU:HG3	3:d:1051:VAL:CG2	2.25	0.67
1:k:726:LEU:CD2	1:n:891:ARG:HH22	2.04	0.67
2:l:1030:ARG:HH21	2:l:1032:VAL:HG11	1.59	0.67
2:o:931:SER:O	2:o:932:GLU:HG2	1.95	0.67
1:D:742:PRO:HB2	1:G:810:ARG:CZ	2.24	0.67
2:E:966:MET:HE2	2:E:974:THR:HB	1.76	0.67
2:H:954:GLU:CB	2:H:987:ILE:HG12	2.24	0.67
1:S:743:LYS:CE	1:V:808:ARG:NH2	2.58	0.67
1:V:743:LYS:CE	1:Y:808:ARG:NH2	2.58	0.67
2:W:966:MET:HE2	2:W:974:THR:HB	1.76	0.67
1:Y:721:LEU:HD22	1:e:823:ALA:HA	1.77	0.67
1:Y:726:LEU:CD2	1:b:891:ARG:HH22	2.04	0.67
1:Y:810:ARG:HA	1:Y:817:ILE:HA	1.75	0.67
2:Z:954:GLU:CB	2:Z:987:ILE:HG12	2.24	0.67
2:Z:963:GLN:HG2	1:b:752:GLY:HA2	1.75	0.67
1:b:723:PRO:HD2	1:h:788:ASP:CG	2.18	0.67
2:f:954:GLU:CB	2:f:987:ILE:HG12	2.24	0.67
1:h:726:LEU:CD1	1:k:890:ALA:O	2.42	0.67
2:o:973:GLU:OE2	2:o:998:ARG:HG3	1.94	0.67
1:A:723:PRO:HD2	1:G:788:ASP:CG	2.18	0.67
2:B:932:GLU:HG3	3:C:1051:VAL:CG2	2.25	0.67
1:G:721:LEU:HD22	1:M:823:ALA:HA	1.77	0.67
1:G:742:PRO:HB2	1:J:810:ARG:CZ	2.24	0.67
1:J:726:LEU:CD1	1:M:890:ALA:O	2.42	0.67
1:M:801:ARG:HB3	1:M:834:PRO:HA	1.76	0.67
2:N:931:SER:O	2:N:932:GLU:HG2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:980:VAL:HG13	1:V:766:ARG:HH11	1.57	0.67
1:Y:743:LYS:CE	1:b:808:ARG:NH2	2.58	0.67
2:c:980:VAL:HG13	1:e:766:ARG:HH12	1.51	0.67
3:d:1057:ILE:HG23	3:d:1058:PRO:HD2	1.75	0.67
1:e:891:ARG:HH11	1:e:891:ARG:CB	2.06	0.67
2:f:966:MET:HE2	2:f:974:THR:HB	1.76	0.67
2:f:980:VAL:HG13	1:h:766:ARG:HH11	1.57	0.67
1:h:742:PRO:HB3	1:k:810:ARG:HD3	1.77	0.67
1:h:757:THR:CG2	1:h:791:ILE:HD13	2.25	0.67
1:A:891:ARG:HH11	1:A:891:ARG:CB	2.06	0.67
2:H:931:SER:O	2:H:932:GLU:HG2	1.95	0.67
1:J:726:LEU:CD2	1:M:891:ARG:HH22	2.04	0.67
1:M:902:ALA:HB1	2:N:912:THR:HG21	1.74	0.67
1:P:721:LEU:HD22	1:V:823:ALA:HA	1.77	0.67
1:S:892:ASP:C	1:S:893:LEU:HD23	2.20	0.67
2:T:932:GLU:HG3	3:U:1051:VAL:CG2	2.25	0.67
1:V:801:ARG:HB3	1:V:834:PRO:HA	1.76	0.67
1:Y:825:THR:HG22	1:Y:831:ALA:HA	1.76	0.67
1:b:721:LEU:HD22	1:h:823:ALA:HA	1.77	0.67
1:e:721:LEU:HD22	1:k:823:ALA:HA	1.77	0.67
1:k:726:LEU:CD1	1:n:890:ALA:O	2.42	0.67
1:n:711:SER:HB3	1:n:714:SER:CB	2.14	0.67
1:A:767:VAL:HG23	1:A:785:SER:O	1.95	0.67
2:E:931:SER:O	2:E:932:GLU:HG2	1.95	0.67
1:G:743:LYS:CE	1:J:808:ARG:NH2	2.58	0.67
1:G:892:ASP:C	1:G:893:LEU:HD23	2.20	0.67
1:J:721:LEU:HD22	1:P:823:ALA:HA	1.77	0.67
1:P:742:PRO:HB3	1:S:810:ARG:HD3	1.77	0.67
1:P:743:LYS:CE	1:S:808:ARG:NH2	2.58	0.67
2:Q:973:GLU:OE2	2:Q:998:ARG:HG3	1.95	0.67
1:Y:721:LEU:HD23	1:e:805:LEU:HB2	1.69	0.67
1:b:726:LEU:CD1	1:e:890:ALA:O	2.42	0.67
1:b:743:LYS:CE	1:e:808:ARG:NH2	2.58	0.67
3:g:1057:ILE:HG23	3:g:1058:PRO:HD2	1.75	0.67
3:j:1057:ILE:HG23	3:j:1058:PRO:HD2	1.75	0.67
1:n:757:THR:CG2	1:n:791:ILE:HD13	2.25	0.67
1:n:825:THR:HG22	1:n:831:ALA:HA	1.76	0.67
1:D:743:LYS:CE	1:G:808:ARG:NH2	2.58	0.66
1:D:788:ASP:CG	1:n:723:PRO:HD2	2.18	0.66
1:P:810:ARG:HA	1:P:817:ILE:HA	1.75	0.66
1:S:725:ARG:HH12	1:Y:808:ARG:CD	2.06	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:980:VAL:HG13	1:b:766:ARG:HH12	1.51	0.66
2:c:966:MET:HE2	2:c:974:THR:HB	1.75	0.66
1:h:892:ASP:C	1:h:893:LEU:HD23	2.20	0.66
1:k:825:THR:HG22	1:k:831:ALA:HA	1.76	0.66
1:G:711:SER:HB3	1:G:714:SER:CB	2.14	0.66
2:H:966:MET:HE2	2:H:974:THR:HB	1.75	0.66
1:J:902:ALA:CB	2:K:912:THR:HG21	2.26	0.66
2:K:966:MET:HE2	2:K:974:THR:HB	1.76	0.66
1:M:743:LYS:CE	1:P:808:ARG:NH2	2.58	0.66
1:P:801:ARG:HB3	1:P:834:PRO:HA	1.76	0.66
2:Q:954:GLU:CB	2:Q:987:ILE:HG12	2.24	0.66
1:S:729:SER:HG	1:V:818:VAL:HG22	1.56	0.66
2:T:1030:ARG:HH21	2:T:1032:VAL:HG11	1.59	0.66
1:V:892:ASP:C	1:V:893:LEU:HD23	2.20	0.66
1:b:725:ARG:NH1	1:h:808:ARG:CD	2.55	0.66
1:b:825:THR:HG22	1:b:831:ALA:HA	1.76	0.66
1:e:742:PRO:HB3	1:h:810:ARG:HD3	1.77	0.66
1:e:892:ASP:C	1:e:893:LEU:HD23	2.20	0.66
2:o:954:GLU:CB	2:o:987:ILE:HG12	2.24	0.66
1:A:890:ALA:O	1:n:726:LEU:CD1	2.42	0.66
2:E:932:GLU:HG3	3:F:1051:VAL:CG2	2.25	0.66
1:G:902:ALA:CB	2:H:912:THR:HG21	2.26	0.66
1:J:743:LYS:CE	1:M:808:ARG:NH2	2.58	0.66
2:K:1030:ARG:HH21	2:K:1032:VAL:HG11	1.59	0.66
1:M:726:LEU:CD1	1:P:890:ALA:O	2.42	0.66
1:P:902:ALA:CB	2:Q:912:THR:HG21	2.26	0.66
1:S:721:LEU:HD22	1:Y:823:ALA:HA	1.77	0.66
1:V:725:ARG:HH12	1:b:808:ARG:CD	2.06	0.66
2:W:1029:VAL:HG12	2:W:1030:ARG:H	1.61	0.66
2:W:1030:ARG:HH21	2:W:1032:VAL:HG11	1.59	0.66
1:Y:902:ALA:CB	2:Z:912:THR:HG21	2.26	0.66
2:f:1029:VAL:HG12	2:f:1030:ARG:H	1.61	0.66
1:h:902:ALA:CB	2:i:912:THR:HG21	2.26	0.66
1:A:721:LEU:HD22	1:G:823:ALA:HA	1.77	0.66
1:A:743:LYS:CE	1:D:808:ARG:NH2	2.58	0.66
1:A:892:ASP:C	1:A:893:LEU:HD23	2.20	0.66
1:D:902:ALA:CB	2:E:912:THR:HG21	2.26	0.66
1:J:892:ASP:C	1:J:893:LEU:HD23	2.20	0.66
2:Q:932:GLU:HG3	3:R:1051:VAL:CG2	2.25	0.66
1:S:780:LEU:HD13	1:S:899:TYR:HD2	1.61	0.66
1:S:801:ARG:HB3	1:S:834:PRO:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:966:MET:HE2	2:Z:974:THR:HB	1.76	0.66
1:b:726:LEU:CD2	1:e:891:ARG:HH22	2.04	0.66
1:b:810:ARG:HA	1:b:817:ILE:HA	1.75	0.66
1:e:743:LYS:CE	1:h:808:ARG:NH2	2.58	0.66
1:k:892:ASP:C	1:k:893:LEU:HD23	2.20	0.66
2:l:973:GLU:OE2	2:l:998:ARG:HG3	1.95	0.66
1:n:767:VAL:HG23	1:n:785:SER:O	1.95	0.66
1:n:902:ALA:CB	2:o:912:THR:HG21	2.26	0.66
2:H:1029:VAL:HG12	2:H:1030:ARG:H	1.61	0.66
2:K:1029:VAL:HG12	2:K:1030:ARG:H	1.61	0.66
1:P:726:LEU:CD2	1:S:891:ARG:HH22	2.04	0.66
2:c:1029:VAL:HG12	2:c:1030:ARG:H	1.61	0.66
1:e:780:LEU:HD13	1:e:899:TYR:HD2	1.61	0.66
1:e:902:ALA:CB	2:f:912:THR:HG21	2.26	0.66
1:h:825:THR:HG22	1:h:831:ALA:HA	1.76	0.66
2:i:1029:VAL:HG12	2:i:1030:ARG:H	1.61	0.66
1:k:724:ALA:HB3	1:k:726:LEU:HB2	1.78	0.66
1:n:724:ALA:HB3	1:n:726:LEU:HB2	1.77	0.66
1:A:823:ALA:HA	1:k:721:LEU:HD22	1.77	0.66
1:D:721:LEU:HD22	1:J:823:ALA:HA	1.77	0.66
1:D:726:LEU:CD1	1:G:890:ALA:O	2.42	0.66
1:D:757:THR:CG2	1:D:791:ILE:HD13	2.25	0.66
1:G:757:THR:CG2	1:G:791:ILE:HD13	2.25	0.66
1:J:810:ARG:HA	1:J:817:ILE:HA	1.75	0.66
1:M:780:LEU:HD13	1:M:899:TYR:HD2	1.61	0.66
1:M:810:ARG:HA	1:M:817:ILE:HA	1.75	0.66
1:P:780:LEU:HD13	1:P:899:TYR:HD2	1.61	0.66
1:S:742:PRO:HB3	1:V:810:ARG:HD3	1.76	0.66
1:b:742:PRO:HB3	1:e:810:ARG:HD3	1.77	0.66
1:e:825:THR:HG22	1:e:831:ALA:HA	1.76	0.66
1:h:724:ALA:HB3	1:h:726:LEU:HB2	1.77	0.66
1:A:808:ARG:NH2	1:n:743:LYS:CE	2.58	0.66
2:H:932:GLU:HG3	3:I:1051:VAL:CG2	2.25	0.66
1:S:851:ILE:HA	1:S:854:PHE:CE2	2.31	0.66
1:S:902:ALA:CB	2:T:912:THR:HG21	2.26	0.66
1:V:726:LEU:CD2	1:Y:891:ARG:HH22	2.04	0.66
1:Y:757:THR:CG2	1:Y:791:ILE:HD13	2.25	0.66
2:Z:1029:VAL:HG12	2:Z:1030:ARG:H	1.61	0.66
1:b:757:THR:CG2	1:b:791:ILE:HD13	2.25	0.66
1:e:757:THR:CG2	1:e:791:ILE:HD13	2.25	0.66
1:h:721:LEU:HD22	1:n:823:ALA:HA	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:973:GLU:OE2	2:i:998:ARG:HG3	1.95	0.66
1:k:743:LYS:CE	1:n:808:ARG:NH2	2.58	0.66
2:E:1030:ARG:HH21	2:E:1032:VAL:HG11	1.59	0.66
1:G:767:VAL:HG23	1:G:785:SER:O	1.95	0.66
1:J:743:LYS:HD3	1:J:891:ARG:O	1.96	0.66
1:J:767:VAL:HG23	1:J:785:SER:O	1.95	0.66
1:M:767:VAL:HG23	1:M:785:SER:O	1.95	0.66
2:Q:966:MET:HE2	2:Q:974:THR:HB	1.76	0.66
2:T:1029:VAL:HG12	2:T:1030:ARG:H	1.61	0.66
1:V:743:LYS:HD3	1:V:891:ARG:O	1.96	0.66
2:W:973:GLU:OE2	2:W:998:ARG:HG3	1.95	0.66
1:Y:743:LYS:HD3	1:Y:891:ARG:O	1.96	0.66
1:h:743:LYS:CE	1:k:808:ARG:NH2	2.58	0.66
2:i:1030:ARG:HH21	2:i:1032:VAL:HG11	1.59	0.66
1:A:743:LYS:HD3	1:A:891:ARG:O	1.96	0.66
1:J:780:LEU:HD13	1:J:899:TYR:HD2	1.61	0.66
2:K:954:GLU:CB	2:K:987:ILE:HG12	2.24	0.66
1:M:777:LEU:HB3	2:N:916:LYS:HZ3	1.60	0.66
1:P:743:LYS:HD3	1:P:891:ARG:O	1.96	0.66
1:S:743:LYS:HD3	1:S:891:ARG:O	1.96	0.66
1:b:743:LYS:HD3	1:b:891:ARG:O	1.96	0.66
1:b:780:LEU:HD13	1:b:899:TYR:HD2	1.61	0.66
1:h:743:LYS:HD3	1:h:891:ARG:O	1.96	0.66
2:l:1029:VAL:HG12	2:l:1030:ARG:H	1.61	0.66
1:A:757:THR:HG22	1:A:791:ILE:CD1	2.26	0.66
1:A:757:THR:CG2	1:A:791:ILE:HD13	2.25	0.66
1:A:766:ARG:HH11	2:o:980:VAL:HG13	1.57	0.66
1:D:780:LEU:HD13	1:D:899:TYR:HD2	1.61	0.66
1:D:823:ALA:HA	1:n:721:LEU:HD22	1.77	0.66
1:G:777:LEU:HB3	2:H:916:LYS:HZ3	1.60	0.66
1:J:757:THR:CG2	1:J:791:ILE:HD13	2.25	0.66
1:M:743:LYS:HD3	1:M:891:ARG:O	1.96	0.66
1:M:891:ARG:HH11	1:M:891:ARG:CB	2.06	0.66
2:N:932:GLU:HG3	3:O:1051:VAL:CG2	2.25	0.66
1:V:757:THR:CG2	1:V:791:ILE:HD13	2.25	0.66
1:V:902:ALA:CB	2:W:912:THR:HG21	2.26	0.66
1:Y:802:VAL:HG22	1:Y:803:PHE:N	2.11	0.66
1:e:724:ALA:HB3	1:e:726:LEU:HB2	1.77	0.66
1:h:780:LEU:HD13	1:h:899:TYR:HD2	1.61	0.66
1:A:724:ALA:HB3	1:A:726:LEU:HB2	1.77	0.65
1:A:726:LEU:CD1	1:D:890:ALA:O	2.42	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:724:ALA:HB3	1:D:726:LEU:HB2	1.77	0.65
2:E:954:GLU:CB	2:E:987:ILE:HG12	2.24	0.65
1:P:851:ILE:HA	1:P:854:PHE:CE2	2.31	0.65
1:V:780:LEU:HD13	1:V:899:TYR:HD2	1.61	0.65
1:b:802:VAL:HG22	1:b:803:PHE:N	2.11	0.65
1:b:902:ALA:CB	2:c:912:THR:HG21	2.26	0.65
2:c:973:GLU:OE2	2:c:998:ARG:HG3	1.95	0.65
1:k:902:ALA:CB	2:l:912:THR:HG21	2.26	0.65
2:o:1029:VAL:HG12	2:o:1030:ARG:H	1.61	0.65
1:A:726:LEU:CD2	1:D:891:ARG:HH22	2.04	0.65
1:D:711:SER:HB3	1:D:714:SER:CB	2.14	0.65
1:D:811:ASN:HB3	1:D:815:GLY:O	1.96	0.65
2:E:1029:VAL:HG12	2:E:1030:ARG:H	1.61	0.65
1:G:743:LYS:HD3	1:G:891:ARG:O	1.96	0.65
1:G:780:LEU:HD13	1:G:899:TYR:HD2	1.61	0.65
1:G:811:ASN:HB3	1:G:815:GLY:O	1.96	0.65
2:H:1030:ARG:HH21	2:H:1032:VAL:HG11	1.59	0.65
1:V:802:VAL:HG22	1:V:803:PHE:N	2.11	0.65
1:Y:742:PRO:HB3	1:b:810:ARG:HD3	1.77	0.65
1:e:743:LYS:HD3	1:e:891:ARG:O	1.96	0.65
1:e:757:THR:HG22	1:e:791:ILE:CD1	2.26	0.65
1:e:811:ASN:HB3	1:e:815:GLY:O	1.96	0.65
1:h:757:THR:HG22	1:h:791:ILE:CD1	2.26	0.65
1:A:780:LEU:HD13	1:A:899:TYR:HD2	1.61	0.65
1:D:726:LEU:CD2	1:G:891:ARG:HH22	2.04	0.65
1:D:757:THR:HG22	1:D:791:ILE:CD1	2.26	0.65
2:K:932:GLU:HG3	3:L:1051:VAL:CG2	2.25	0.65
1:V:742:PRO:HB3	1:Y:810:ARG:HD3	1.77	0.65
1:V:851:ILE:HA	1:V:854:PHE:CE2	2.31	0.65
1:Y:851:ILE:HA	1:Y:854:PHE:CE2	2.31	0.65
2:Z:973:GLU:OE2	2:Z:998:ARG:HG3	1.95	0.65
1:b:721:LEU:HD23	1:h:805:LEU:HB2	1.70	0.65
1:b:724:ALA:HB3	1:b:726:LEU:HB2	1.77	0.65
2:c:956:PRO:HD2	2:c:959:ALA:HB3	1.78	0.65
1:e:726:LEU:CD2	1:h:891:ARG:HH22	2.04	0.65
1:h:811:ASN:HB3	1:h:815:GLY:O	1.96	0.65
1:A:711:SER:HB3	1:A:714:SER:CB	2.14	0.65
1:A:753:THR:HG23	2:o:975:LEU:HD22	1.78	0.65
1:A:811:ASN:HB3	1:A:815:GLY:O	1.96	0.65
2:B:975:LEU:HD22	1:D:753:THR:HG23	1.78	0.65
2:B:1029:VAL:HG12	2:B:1030:ARG:H	1.61	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:743:LYS:HD3	1:D:891:ARG:O	1.96	0.65
1:G:726:LEU:CD1	1:J:890:ALA:O	2.42	0.65
1:G:757:THR:HG21	1:G:802:VAL:HG21	1.78	0.65
1:J:811:ASN:HB3	1:J:815:GLY:O	1.96	0.65
1:M:724:ALA:HB3	1:M:726:LEU:HB2	1.77	0.65
1:M:757:THR:CG2	1:M:791:ILE:HD13	2.25	0.65
1:M:902:ALA:CB	2:N:912:THR:HG21	2.26	0.65
1:S:757:THR:CG2	1:S:791:ILE:HD13	2.25	0.65
1:V:811:ASN:HB3	1:V:815:GLY:O	1.96	0.65
1:b:891:ARG:HH11	1:b:891:ARG:CB	2.06	0.65
2:f:956:PRO:HD2	2:f:959:ALA:HB3	1.78	0.65
2:i:960:GLU:O	2:i:962:PRO:HD3	1.97	0.65
1:A:902:ALA:CB	2:B:912:THR:HG21	2.26	0.65
1:S:802:VAL:HG22	1:S:803:PHE:N	2.11	0.65
1:Y:780:LEU:HD13	1:Y:899:TYR:HD2	1.61	0.65
2:Z:956:PRO:HD2	2:Z:959:ALA:HB3	1.78	0.65
1:b:851:ILE:HA	1:b:854:PHE:CE2	2.31	0.65
1:h:839:ALA:HB3	1:h:841:MET:HG3	1.79	0.65
2:i:956:PRO:HD2	2:i:959:ALA:HB3	1.78	0.65
1:k:851:ILE:HA	1:k:854:PHE:CE2	2.31	0.65
1:D:757:THR:HG21	1:D:802:VAL:HG21	1.78	0.65
1:D:767:VAL:HG23	1:D:785:SER:O	1.95	0.65
1:M:811:ASN:HB3	1:M:815:GLY:O	1.96	0.65
2:N:1029:VAL:HG12	2:N:1030:ARG:H	1.61	0.65
1:P:757:THR:CG2	1:P:791:ILE:HD13	2.25	0.65
1:S:863:ALA:CB	1:V:862:LEU:HD22	2.23	0.65
1:b:757:THR:HG21	1:b:802:VAL:HG21	1.78	0.65
2:c:980:VAL:HG13	1:e:766:ARG:HH11	1.57	0.65
1:h:725:ARG:HH12	1:n:808:ARG:CD	2.06	0.65
2:l:956:PRO:HD2	2:l:959:ALA:HB3	1.78	0.65
1:n:743:LYS:HD3	1:n:891:ARG:O	1.96	0.65
1:n:802:VAL:HG22	1:n:803:PHE:N	2.11	0.65
1:A:777:LEU:HB3	2:B:916:LYS:HZ3	1.60	0.65
1:A:839:ALA:CB	1:A:841:MET:HG3	2.27	0.65
2:B:960:GLU:O	2:B:962:PRO:HD3	1.97	0.65
2:E:953:PHE:C	2:E:987:ILE:HG23	2.22	0.65
2:E:960:GLU:O	2:E:962:PRO:HD3	1.97	0.65
1:G:724:ALA:HB3	1:G:726:LEU:HB2	1.77	0.65
1:G:775:ASP:OD2	1:J:813:GLN:HA	1.97	0.65
1:M:775:ASP:OD2	1:P:813:GLN:HA	1.97	0.65
1:P:724:ALA:HB3	1:P:726:LEU:HB2	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:775:ASP:OD2	1:V:813:GLN:HA	1.97	0.65
1:Y:757:THR:HG21	1:Y:802:VAL:HG21	1.78	0.65
1:b:775:ASP:OD2	1:e:813:GLN:HA	1.97	0.65
1:b:839:ALA:HB3	1:b:841:MET:HG3	1.79	0.65
1:e:802:VAL:HG22	1:e:803:PHE:N	2.11	0.65
2:f:973:GLU:OE2	2:f:998:ARG:HG3	1.95	0.65
1:h:851:ILE:HA	1:h:854:PHE:CE2	2.31	0.65
1:k:743:LYS:HD3	1:k:891:ARG:O	1.96	0.65
1:k:802:VAL:HG22	1:k:803:PHE:N	2.11	0.65
2:l:975:LEU:HD22	1:n:753:THR:HG23	1.78	0.65
1:n:811:ASN:HB3	1:n:815:GLY:O	1.96	0.65
2:o:960:GLU:O	2:o:962:PRO:HD3	1.97	0.65
1:A:802:VAL:HG22	1:A:803:PHE:N	2.11	0.65
1:A:813:GLN:HA	1:n:775:ASP:OD2	1.97	0.65
2:E:975:LEU:HD22	1:G:753:THR:HG23	1.78	0.65
1:J:724:ALA:HB3	1:J:726:LEU:HB2	1.77	0.65
1:J:757:THR:HG21	1:J:802:VAL:HG21	1.78	0.65
2:Q:960:GLU:O	2:Q:962:PRO:HD3	1.97	0.65
1:S:811:ASN:HB3	1:S:815:GLY:O	1.96	0.65
1:b:757:THR:HG22	1:b:791:ILE:CD1	2.26	0.65
1:e:775:ASP:OD2	1:h:813:GLN:HA	1.97	0.65
1:h:775:ASP:OD2	1:k:813:GLN:HA	1.97	0.65
1:k:775:ASP:OD2	1:n:813:GLN:HA	1.97	0.65
1:n:839:ALA:CB	1:n:841:MET:HG3	2.27	0.65
1:n:839:ALA:HB3	1:n:841:MET:HG3	1.79	0.65
1:A:775:ASP:OD2	1:D:813:GLN:HA	1.97	0.65
2:W:956:PRO:HD2	2:W:959:ALA:HB3	1.78	0.65
1:Y:775:ASP:OD2	1:b:813:GLN:HA	1.97	0.65
1:e:851:ILE:HA	1:e:854:PHE:CE2	2.31	0.65
2:i:953:PHE:C	2:i:987:ILE:HG23	2.22	0.65
2:i:975:LEU:HD22	1:k:753:THR:HG23	1.78	0.65
2:l:960:GLU:O	2:l:962:PRO:HD3	1.97	0.65
1:A:757:THR:HG21	1:A:802:VAL:HG21	1.78	0.65
2:B:953:PHE:C	2:B:987:ILE:HG23	2.22	0.65
1:D:775:ASP:OD2	1:G:813:GLN:HA	1.97	0.65
1:G:757:THR:HG22	1:G:791:ILE:CD1	2.26	0.65
1:G:802:VAL:HG22	1:G:803:PHE:N	2.11	0.65
2:H:953:PHE:C	2:H:987:ILE:HG23	2.22	0.65
2:H:960:GLU:O	2:H:962:PRO:HD3	1.97	0.65
1:M:725:ARG:NH2	1:S:808:ARG:HB2	2.05	0.65
1:M:851:ILE:HA	1:M:854:PHE:CE2	2.31	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:960:GLU:O	2:T:962:PRO:HD3	1.97	0.65
1:Y:811:ASN:HB3	1:Y:815:GLY:O	1.96	0.65
1:e:757:THR:HG21	1:e:802:VAL:HG21	1.78	0.65
1:e:839:ALA:HB3	1:e:841:MET:HG3	1.79	0.65
2:f:953:PHE:C	2:f:987:ILE:HG23	2.22	0.65
2:f:960:GLU:O	2:f:962:PRO:HD3	1.97	0.65
1:h:802:VAL:HG22	1:h:803:PHE:N	2.11	0.65
1:k:839:ALA:CB	1:k:841:MET:HG3	2.27	0.65
1:k:839:ALA:HB3	1:k:841:MET:HG3	1.79	0.65
1:n:851:ILE:HA	1:n:854:PHE:CE2	2.31	0.65
1:n:891:ARG:HH11	1:n:891:ARG:CB	2.06	0.65
2:o:956:PRO:HD2	2:o:959:ALA:HB3	1.78	0.65
1:D:851:ILE:HA	1:D:854:PHE:CE2	2.31	0.64
1:G:851:ILE:HA	1:G:854:PHE:CE2	2.31	0.64
2:H:975:LEU:HD22	1:J:753:THR:HG23	1.78	0.64
1:J:802:VAL:HG22	1:J:803:PHE:N	2.11	0.64
1:P:811:ASN:HB3	1:P:815:GLY:O	1.96	0.64
2:Q:980:VAL:HG13	1:S:766:ARG:HH11	1.57	0.64
1:S:725:ARG:NH2	1:Y:808:ARG:HB2	2.05	0.64
1:V:775:ASP:OD2	1:Y:813:GLN:HA	1.97	0.64
2:Z:953:PHE:C	2:Z:987:ILE:HG23	2.22	0.64
1:b:811:ASN:HB3	1:b:815:GLY:O	1.96	0.64
1:b:839:ALA:CB	1:b:841:MET:HG3	2.27	0.64
2:c:953:PHE:C	2:c:987:ILE:HG23	2.22	0.64
1:e:839:ALA:CB	1:e:841:MET:HG3	2.27	0.64
2:f:975:LEU:HD22	1:h:753:THR:HG23	1.78	0.64
2:B:956:PRO:HD2	2:B:959:ALA:HB3	1.78	0.64
1:D:802:VAL:HG22	1:D:803:PHE:N	2.11	0.64
1:D:839:ALA:CB	1:D:841:MET:HG3	2.27	0.64
1:M:802:VAL:HG22	1:M:803:PHE:N	2.11	0.64
2:N:960:GLU:O	2:N:962:PRO:HD3	1.97	0.64
1:P:802:VAL:HG22	1:P:803:PHE:N	2.11	0.64
2:Q:1029:VAL:HG12	2:Q:1030:ARG:H	1.61	0.64
1:S:724:ALA:HB3	1:S:726:LEU:HB2	1.77	0.64
2:c:975:LEU:HD22	1:e:753:THR:HG23	1.78	0.64
1:h:839:ALA:CB	1:h:841:MET:HG3	2.27	0.64
1:h:844:ARG:HG3	1:h:873:ILE:HD11	1.80	0.64
1:n:780:LEU:HD13	1:n:899:TYR:HD2	1.61	0.64
1:n:844:ARG:HG3	1:n:873:ILE:HD11	1.80	0.64
3:I:1059:VAL:HG22	3:I:1060:ASP:H	1.63	0.64
2:W:953:PHE:C	2:W:987:ILE:HG23	2.22	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:839:ALA:CB	1:Y:841:MET:HG3	2.27	0.64
1:b:844:ARG:HG3	1:b:873:ILE:HD11	1.80	0.64
1:e:721:LEU:HD23	1:k:805:LEU:HB2	1.70	0.64
1:k:811:ASN:HB3	1:k:815:GLY:O	1.96	0.64
2:l:953:PHE:C	2:l:987:ILE:HG23	2.22	0.64
1:D:808:ARG:HB2	1:n:725:ARG:NH2	2.05	0.64
1:J:839:ALA:CB	1:J:841:MET:HG3	2.27	0.64
2:T:953:PHE:C	2:T:987:ILE:HG23	2.22	0.64
1:V:757:THR:HG21	1:V:802:VAL:HG21	1.78	0.64
1:V:839:ALA:CB	1:V:841:MET:HG3	2.27	0.64
1:Y:724:ALA:HB3	1:Y:726:LEU:HB2	1.77	0.64
1:h:757:THR:HG21	1:h:802:VAL:HG21	1.78	0.64
2:i:965:TYR:CE1	2:i:975:LEU:HB2	2.33	0.64
1:n:757:THR:HG21	1:n:802:VAL:HG21	1.78	0.64
1:A:725:ARG:N	1:A:725:ARG:HD2	2.13	0.64
1:A:839:ALA:HB3	1:A:841:MET:HG3	1.79	0.64
2:E:930:MET:HE3	3:F:1053:VAL:HG22	1.80	0.64
2:E:956:PRO:HD2	2:E:959:ALA:HB3	1.78	0.64
1:J:851:ILE:HA	1:J:854:PHE:CE2	2.31	0.64
2:N:965:TYR:CE1	2:N:975:LEU:HB2	2.33	0.64
2:T:956:PRO:HD2	2:T:959:ALA:HB3	1.78	0.64
3:U:1059:VAL:HG22	3:U:1060:ASP:H	1.63	0.64
1:V:839:ALA:HB3	1:V:841:MET:HG3	1.79	0.64
2:W:930:MET:HE3	3:X:1053:VAL:CG1	2.28	0.64
3:g:1059:VAL:HG22	3:g:1060:ASP:H	1.63	0.64
3:j:1059:VAL:HG22	3:j:1060:ASP:H	1.63	0.64
1:k:780:LEU:HD13	1:k:899:TYR:HD2	1.61	0.64
1:A:721:LEU:HD13	1:G:822:SER:CA	2.27	0.64
3:F:1059:VAL:HG22	3:F:1060:ASP:H	1.63	0.64
1:G:839:ALA:CB	1:G:841:MET:HG3	2.27	0.64
1:G:901:LEU:HD11	2:H:909:LYS:C	2.23	0.64
2:H:930:MET:HE3	3:I:1053:VAL:HG22	1.80	0.64
1:J:901:LEU:HD11	2:K:909:LYS:C	2.23	0.64
2:K:975:LEU:HD22	1:M:753:THR:HG23	1.78	0.64
1:M:757:THR:HG21	1:M:802:VAL:HG21	1.78	0.64
1:V:863:ALA:CB	1:Y:862:LEU:HD22	2.23	0.64
2:W:960:GLU:O	2:W:962:PRO:HD3	1.97	0.64
1:Y:757:THR:HG22	1:Y:791:ILE:CD1	2.26	0.64
1:Y:839:ALA:HB3	1:Y:841:MET:HG3	1.79	0.64
2:Z:975:LEU:HD22	1:b:753:THR:HG23	1.78	0.64
1:b:721:LEU:HD13	1:h:822:SER:CA	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:1059:VAL:HG22	3:d:1060:ASP:H	1.63	0.64
2:f:930:MET:HE3	3:g:1053:VAL:HG22	1.80	0.64
3:m:1059:VAL:HG22	3:m:1060:ASP:H	1.63	0.64
2:B:930:MET:HE3	3:C:1053:VAL:HG22	1.80	0.64
1:D:822:SER:CA	1:n:721:LEU:HD13	2.27	0.64
1:D:839:ALA:HB3	1:D:841:MET:HG3	1.79	0.64
1:D:844:ARG:HG3	1:D:873:ILE:HD11	1.80	0.64
2:E:965:TYR:CE1	2:E:975:LEU:HB2	2.33	0.64
2:H:965:TYR:CE1	2:H:975:LEU:HB2	2.33	0.64
2:K:930:MET:HE3	3:L:1053:VAL:HG22	1.80	0.64
2:K:953:PHE:C	2:K:987:ILE:HG23	2.22	0.64
2:T:930:MET:HE3	3:U:1053:VAL:CG1	2.28	0.64
1:V:724:ALA:HB3	1:V:726:LEU:HB2	1.77	0.64
2:W:975:LEU:HD22	1:Y:753:THR:HG23	1.78	0.64
3:X:1059:VAL:HG22	3:X:1060:ASP:H	1.63	0.64
1:Y:720:ASN:HB2	1:e:805:LEU:HD23	1.79	0.64
1:Y:721:LEU:HD13	1:e:822:SER:CA	2.27	0.64
1:e:721:LEU:HD13	1:k:822:SER:CA	2.27	0.64
2:i:930:MET:HE3	3:j:1053:VAL:HG22	1.80	0.64
2:o:965:TYR:CE1	2:o:975:LEU:HB2	2.33	0.64
1:A:851:ILE:HA	1:A:854:PHE:CE2	2.31	0.64
1:D:721:LEU:HD13	1:J:822:SER:CA	2.27	0.64
1:G:725:ARG:NH1	1:M:808:ARG:CD	2.55	0.64
1:G:780:LEU:N	1:G:780:LEU:HD23	2.13	0.64
2:H:980:VAL:HG13	1:J:766:ARG:HH11	1.57	0.64
1:J:775:ASP:OD2	1:M:813:GLN:HA	1.97	0.64
3:L:1059:VAL:HG22	3:L:1060:ASP:H	1.63	0.64
2:Q:965:TYR:CE1	2:Q:975:LEU:HB2	2.33	0.64
1:S:725:ARG:HD2	1:S:725:ARG:N	2.13	0.64
2:T:965:TYR:CE1	2:T:975:LEU:HB2	2.33	0.64
3:a:1059:VAL:HG22	3:a:1060:ASP:H	1.63	0.64
2:c:930:MET:HE3	3:d:1053:VAL:HG22	1.80	0.64
1:h:901:LEU:HD11	2:i:909:LYS:C	2.23	0.64
1:k:757:THR:HG21	1:k:802:VAL:HG21	1.78	0.64
1:k:901:LEU:HD11	2:l:909:LYS:C	2.23	0.64
2:l:965:TYR:CE1	2:l:975:LEU:HB2	2.33	0.64
2:o:954:GLU:HA	2:o:987:ILE:CG1	2.19	0.64
1:A:844:ARG:HG3	1:A:873:ILE:HD11	1.80	0.64
1:A:891:ARG:HH22	1:n:726:LEU:CD2	2.04	0.64
2:E:965:TYR:HA	2:E:976:PRO:CD	2.28	0.64
1:J:757:THR:HG22	1:J:791:ILE:CD1	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:960:GLU:O	2:K:962:PRO:HD3	1.97	0.64
1:M:839:ALA:CB	1:M:841:MET:HG3	2.27	0.64
2:Q:953:PHE:C	2:Q:987:ILE:HG23	2.22	0.64
2:Q:980:VAL:HB	2:Q:987:ILE:O	1.98	0.64
1:S:839:ALA:CB	1:S:841:MET:HG3	2.27	0.64
2:T:980:VAL:HB	2:T:987:ILE:O	1.98	0.64
1:V:721:LEU:HD13	1:b:822:SER:CA	2.27	0.64
2:f:965:TYR:CE1	2:f:975:LEU:HB2	2.33	0.64
1:h:721:LEU:HD13	1:n:822:SER:CA	2.27	0.64
2:i:965:TYR:HA	2:i:976:PRO:CD	2.28	0.64
1:k:844:ARG:HG3	1:k:873:ILE:HD11	1.79	0.64
2:l:965:TYR:HA	2:l:976:PRO:CD	2.28	0.64
2:o:930:MET:HE3	3:p:1053:VAL:HG22	1.80	0.64
2:o:953:PHE:C	2:o:987:ILE:HG23	2.22	0.64
3:p:1059:VAL:HG22	3:p:1060:ASP:H	1.63	0.64
1:A:720:ASN:HB2	1:G:805:LEU:HD23	1.80	0.64
1:A:822:SER:CA	1:k:721:LEU:HD13	2.27	0.64
1:G:844:ARG:HG3	1:G:873:ILE:HD11	1.80	0.64
2:H:956:PRO:HD2	2:H:959:ALA:HB3	1.78	0.64
2:K:980:VAL:HG13	1:M:766:ARG:HH11	1.57	0.64
2:N:975:LEU:HD22	1:P:753:THR:HG23	1.78	0.64
2:Q:956:PRO:HD2	2:Q:959:ALA:HB3	1.78	0.64
2:T:975:LEU:HD22	1:V:753:THR:HG23	1.78	0.64
1:V:844:ARG:HG3	1:V:873:ILE:HD11	1.80	0.64
2:W:939:ILE:HG21	2:Z:969:ALA:CB	2.28	0.64
2:W:980:VAL:HB	2:W:987:ILE:O	1.98	0.64
1:Y:743:LYS:HD3	1:Y:891:ARG:C	2.23	0.64
2:Z:960:GLU:O	2:Z:962:PRO:HD3	1.97	0.64
1:D:725:ARG:N	1:D:725:ARG:HD2	2.13	0.63
2:E:939:ILE:HG21	2:H:969:ALA:CB	2.29	0.63
1:G:721:LEU:HD13	1:M:822:SER:CA	2.27	0.63
1:G:743:LYS:HD3	1:G:891:ARG:C	2.23	0.63
2:H:939:ILE:HG21	2:K:969:ALA:CB	2.28	0.63
2:K:965:TYR:HA	2:K:976:PRO:CD	2.28	0.63
2:K:980:VAL:HB	2:K:987:ILE:O	1.98	0.63
2:N:956:PRO:HD2	2:N:959:ALA:HB3	1.78	0.63
1:P:839:ALA:CB	1:P:841:MET:HG3	2.27	0.63
2:Q:930:MET:HE3	3:R:1053:VAL:CG1	2.28	0.63
2:W:965:TYR:CE1	2:W:975:LEU:HB2	2.33	0.63
2:Z:930:MET:HE3	3:a:1053:VAL:HG22	1.80	0.63
1:b:720:ASN:HB2	1:h:805:LEU:HD23	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:960:GLU:O	2:c:962:PRO:HD3	1.97	0.63
1:k:725:ARG:HD2	1:k:725:ARG:N	2.13	0.63
2:l:930:MET:HE3	3:m:1053:VAL:HG22	1.80	0.63
1:n:743:LYS:HD3	1:n:891:ARG:C	2.23	0.63
2:o:965:TYR:HA	2:o:976:PRO:CD	2.28	0.63
2:B:965:TYR:CE1	2:B:975:LEU:HB2	2.33	0.63
1:D:901:LEU:HD11	2:E:909:LYS:C	2.23	0.63
2:H:965:TYR:HA	2:H:976:PRO:CD	2.28	0.63
1:J:839:ALA:HB3	1:J:841:MET:HG3	1.79	0.63
1:M:901:LEU:HD11	2:N:909:LYS:C	2.23	0.63
2:N:930:MET:HE3	3:O:1053:VAL:HG22	1.80	0.63
1:P:743:LYS:HD3	1:P:891:ARG:C	2.23	0.63
1:P:775:ASP:OD2	1:S:813:GLN:HA	1.97	0.63
2:Q:966:MET:HE2	2:Q:974:THR:CB	2.28	0.63
2:Q:975:LEU:HD22	1:S:753:THR:HG23	1.78	0.63
3:R:1059:VAL:HG22	3:R:1060:ASP:H	1.63	0.63
1:Y:725:ARG:N	1:Y:725:ARG:HD2	2.13	0.63
1:Y:780:LEU:N	1:Y:780:LEU:HD23	2.13	0.63
2:Z:980:VAL:HB	2:Z:987:ILE:O	1.98	0.63
1:e:780:LEU:N	1:e:780:LEU:HD23	2.13	0.63
1:e:844:ARG:HG3	1:e:873:ILE:HD11	1.80	0.63
2:f:965:TYR:HA	2:f:976:PRO:CD	2.28	0.63
1:k:743:LYS:HD3	1:k:891:ARG:C	2.23	0.63
2:B:965:TYR:HA	2:B:976:PRO:CD	2.28	0.63
1:J:891:ARG:HH11	1:J:891:ARG:CB	2.06	0.63
2:K:956:PRO:HD2	2:K:959:ALA:HB3	1.78	0.63
2:N:980:VAL:HB	2:N:987:ILE:O	1.98	0.63
1:P:721:LEU:HD13	1:V:822:SER:CA	2.27	0.63
1:P:757:THR:HG21	1:P:802:VAL:HG21	1.78	0.63
1:S:721:LEU:HD13	1:Y:822:SER:CA	2.27	0.63
1:S:839:ALA:HB3	1:S:841:MET:HG3	1.79	0.63
1:V:757:THR:HG22	1:V:791:ILE:CD1	2.26	0.63
1:Y:891:ARG:HH11	1:Y:891:ARG:CB	2.06	0.63
1:Y:901:LEU:CG	1:Y:902:ALA:HB2	2.29	0.63
1:b:901:LEU:CG	1:b:902:ALA:HB2	2.29	0.63
1:e:721:LEU:O	1:k:805:LEU:C	2.42	0.63
2:B:980:VAL:HA	2:B:988:ILE:HA	1.81	0.63
3:C:1059:VAL:HG22	3:C:1060:ASP:H	1.63	0.63
1:D:721:LEU:O	1:J:805:LEU:C	2.42	0.63
1:D:777:LEU:HB3	2:E:916:LYS:HZ3	1.62	0.63
1:D:780:LEU:HD23	1:D:780:LEU:N	2.13	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:980:VAL:HG13	1:G:766:ARG:HH11	1.57	0.63
2:H:966:MET:HE2	2:H:974:THR:CB	2.28	0.63
1:M:721:LEU:HD13	1:S:822:SER:CA	2.27	0.63
2:N:930:MET:HE3	3:O:1053:VAL:CG1	2.28	0.63
1:P:720:ASN:HB2	1:V:805:LEU:HD23	1.80	0.63
2:T:939:ILE:HG21	2:W:969:ALA:CB	2.28	0.63
2:W:930:MET:HE3	3:X:1053:VAL:HG22	1.80	0.63
1:Y:764:SER:HB2	1:Y:786:TRP:HZ3	1.64	0.63
2:Z:939:ILE:HG21	2:c:969:ALA:CB	2.29	0.63
1:b:725:ARG:N	1:b:725:ARG:HD2	2.13	0.63
1:e:743:LYS:HD3	1:e:891:ARG:C	2.23	0.63
1:e:901:LEU:CG	1:e:902:ALA:HB2	2.29	0.63
1:h:726:LEU:CD2	1:k:891:ARG:HH22	2.04	0.63
1:n:780:LEU:N	1:n:780:LEU:HD23	2.13	0.63
1:n:901:LEU:HD11	2:o:909:LYS:C	2.23	0.63
1:A:801:ARG:NE	1:D:759:VAL:HG21	2.14	0.63
1:D:720:ASN:HB2	1:J:805:LEU:HD23	1.79	0.63
2:E:980:VAL:HA	2:E:988:ILE:HA	1.81	0.63
1:G:839:ALA:HB3	1:G:841:MET:HG3	1.79	0.63
1:J:721:LEU:HD13	1:P:822:SER:CA	2.27	0.63
1:J:743:LYS:HD3	1:J:891:ARG:C	2.23	0.63
1:M:757:THR:HG22	1:M:791:ILE:CD1	2.26	0.63
1:M:844:ARG:HG3	1:M:873:ILE:HD11	1.80	0.63
2:N:953:PHE:C	2:N:987:ILE:HG23	2.22	0.63
2:N:965:TYR:HA	2:N:976:PRO:CD	2.28	0.63
1:S:743:LYS:HD3	1:S:891:ARG:C	2.23	0.63
1:S:757:THR:HG21	1:S:802:VAL:HG21	1.78	0.63
2:T:980:VAL:HA	2:T:988:ILE:HA	1.81	0.63
1:V:720:ASN:HB2	1:b:805:LEU:HD23	1.80	0.63
1:V:901:LEU:HD11	2:W:909:LYS:C	2.23	0.63
1:Y:721:LEU:O	1:e:805:LEU:C	2.42	0.63
1:Y:863:ALA:CB	1:b:862:LEU:HD22	2.23	0.63
2:c:980:VAL:HB	2:c:987:ILE:O	1.98	0.63
1:e:801:ARG:NE	1:h:759:VAL:HG21	2.14	0.63
1:h:721:LEU:HD23	1:n:805:LEU:HB2	1.70	0.63
1:h:801:ARG:NE	1:k:759:VAL:HG21	2.14	0.63
1:h:901:LEU:CG	1:h:902:ALA:HB2	2.29	0.63
1:k:787:VAL:HG11	1:k:806:TRP:HB3	1.81	0.63
1:A:764:SER:HB2	1:A:786:TRP:HZ3	1.64	0.63
1:A:805:LEU:C	1:k:721:LEU:O	2.42	0.63
1:A:805:LEU:HD23	1:k:720:ASN:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:980:VAL:HB	2:H:987:ILE:O	1.98	0.63
1:J:725:ARG:HD2	1:J:725:ARG:N	2.13	0.63
2:K:965:TYR:CE1	2:K:975:LEU:HB2	2.33	0.63
1:M:839:ALA:HB3	1:M:841:MET:HG3	1.79	0.63
2:Q:930:MET:HE3	3:R:1053:VAL:HG22	1.80	0.63
2:Q:965:TYR:HA	2:Q:976:PRO:CD	2.28	0.63
2:T:930:MET:HE3	3:U:1053:VAL:HG22	1.80	0.63
1:V:743:LYS:HD3	1:V:891:ARG:C	2.23	0.63
1:V:901:LEU:CG	1:V:902:ALA:HB2	2.29	0.63
2:W:966:MET:HE2	2:W:974:THR:CB	2.28	0.63
2:c:965:TYR:HA	2:c:976:PRO:CD	2.28	0.63
1:e:901:LEU:HD11	2:f:909:LYS:C	2.23	0.63
2:f:966:MET:HE2	2:f:974:THR:CB	2.29	0.63
1:h:725:ARG:HD2	1:h:725:ARG:N	2.13	0.63
1:h:742:PRO:CB	1:k:810:ARG:HD3	2.29	0.63
1:h:787:VAL:HG11	1:h:806:TRP:HB3	1.81	0.63
2:i:966:MET:HE2	2:i:974:THR:CB	2.29	0.63
1:k:742:PRO:CB	1:n:810:ARG:HD3	2.29	0.63
1:k:764:SER:HB2	1:k:786:TRP:HZ3	1.64	0.63
1:n:764:SER:HB2	1:n:786:TRP:HZ3	1.64	0.63
2:o:1013:PHE:C	2:o:1015:PRO:HD3	2.24	0.63
1:A:810:ARG:HD3	1:n:742:PRO:CB	2.29	0.63
2:B:980:VAL:HB	2:B:987:ILE:O	1.98	0.63
2:B:1013:PHE:C	2:B:1015:PRO:HD3	2.24	0.63
1:D:743:LYS:HD3	1:D:891:ARG:C	2.23	0.63
2:K:930:MET:HE3	3:L:1053:VAL:CG1	2.28	0.63
1:M:720:ASN:HB2	1:S:805:LEU:HD23	1.80	0.63
1:M:780:LEU:N	1:M:780:LEU:HD23	2.13	0.63
1:P:757:THR:HG22	1:P:791:ILE:CD1	2.26	0.63
1:P:839:ALA:HB3	1:P:841:MET:HG3	1.79	0.63
2:Q:980:VAL:HA	2:Q:988:ILE:HA	1.81	0.63
1:S:757:THR:HG22	1:S:791:ILE:CD1	2.26	0.63
1:V:764:SER:HB2	1:V:786:TRP:HZ3	1.64	0.63
2:W:980:VAL:HA	2:W:988:ILE:HA	1.81	0.63
2:Z:965:TYR:CE1	2:Z:975:LEU:HB2	2.33	0.63
2:c:936:MET:HE2	2:c:936:MET:N	2.14	0.63
1:e:742:PRO:CB	1:h:810:ARG:HD3	2.29	0.63
2:i:930:MET:HE3	3:j:1053:VAL:CG1	2.28	0.63
1:n:787:VAL:HG11	1:n:806:TRP:HB3	1.81	0.63
2:B:966:MET:HE2	2:B:974:THR:CB	2.28	0.63
2:E:1013:PHE:C	2:E:1015:PRO:HD3	2.24	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:725:ARG:N	1:G:725:ARG:HD2	2.13	0.63
2:H:929:VAL:CG2	2:H:1009:ARG:HG2	2.23	0.63
1:J:720:ASN:HB2	1:P:805:LEU:HD23	1.80	0.63
2:K:939:ILE:HG21	2:N:969:ALA:CB	2.28	0.63
3:O:1059:VAL:HG22	3:O:1060:ASP:H	1.63	0.63
1:P:725:ARG:HD2	1:P:725:ARG:N	2.13	0.63
1:S:901:LEU:HD11	2:T:909:LYS:C	2.23	0.63
1:V:721:LEU:O	1:b:805:LEU:C	2.42	0.63
2:c:965:TYR:CE1	2:c:975:LEU:HB2	2.33	0.63
1:k:726:LEU:CB	1:n:891:ARG:NH1	2.50	0.63
1:k:801:ARG:NE	1:n:759:VAL:HG21	2.14	0.63
2:l:1013:PHE:C	2:l:1015:PRO:HD3	2.24	0.63
2:o:980:VAL:HA	2:o:988:ILE:HA	1.81	0.63
2:B:939:ILE:HG21	2:E:969:ALA:CB	2.28	0.63
1:D:764:SER:HB2	1:D:786:TRP:HZ3	1.64	0.63
2:E:980:VAL:HB	2:E:987:ILE:O	1.98	0.63
2:K:966:MET:HE2	2:K:974:THR:CB	2.29	0.63
2:N:980:VAL:HG13	1:P:766:ARG:HH11	1.57	0.63
1:S:901:LEU:CG	1:S:902:ALA:HB2	2.29	0.63
2:T:965:TYR:HA	2:T:976:PRO:CD	2.28	0.63
1:V:780:LEU:N	1:V:780:LEU:HD23	2.13	0.63
2:W:965:TYR:HA	2:W:976:PRO:CD	2.28	0.63
1:Y:901:LEU:HD11	2:Z:909:LYS:C	2.23	0.63
2:Z:954:GLU:HA	2:Z:987:ILE:CG1	2.19	0.63
1:b:742:PRO:CB	1:e:810:ARG:HD3	2.29	0.63
1:b:764:SER:HB2	1:b:786:TRP:HZ3	1.64	0.63
1:e:787:VAL:HG11	1:e:806:TRP:HB3	1.81	0.63
1:h:764:SER:HB2	1:h:786:TRP:HZ3	1.64	0.63
1:h:779:ARG:C	1:h:780:LEU:HD23	2.24	0.63
2:i:939:ILE:HG21	2:l:969:ALA:CB	2.28	0.63
2:i:1013:PHE:C	2:i:1015:PRO:HD3	2.24	0.63
1:k:901:LEU:CG	1:k:902:ALA:HB2	2.29	0.63
2:l:936:MET:HE2	2:l:936:MET:N	2.14	0.63
1:n:725:ARG:HD2	1:n:725:ARG:N	2.13	0.63
2:o:936:MET:N	2:o:936:MET:HE2	2.14	0.63
1:A:721:LEU:O	1:G:805:LEU:C	2.42	0.62
1:A:743:LYS:HD3	1:A:891:ARG:C	2.23	0.62
1:A:759:VAL:HG21	1:n:801:ARG:NE	2.14	0.62
1:A:779:ARG:C	1:A:780:LEU:HD23	2.24	0.62
1:A:780:LEU:HD23	1:A:780:LEU:N	2.13	0.62
1:A:787:VAL:HG11	1:A:806:TRP:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:901:LEU:HD11	2:B:909:LYS:C	2.23	0.62
2:B:980:VAL:HG13	1:D:766:ARG:HH11	1.57	0.62
2:H:980:VAL:HA	2:H:988:ILE:HA	1.81	0.62
2:H:1013:PHE:C	2:H:1015:PRO:HD3	2.24	0.62
1:J:764:SER:HB2	1:J:786:TRP:HZ3	1.64	0.62
1:M:721:LEU:O	1:S:805:LEU:C	2.42	0.62
1:S:844:ARG:HG3	1:S:873:ILE:HD11	1.80	0.62
2:T:966:MET:HE2	2:T:974:THR:CB	2.29	0.62
1:e:764:SER:HB2	1:e:786:TRP:HZ3	1.64	0.62
2:f:980:VAL:HB	2:f:987:ILE:O	1.98	0.62
2:i:936:MET:HE2	2:i:936:MET:N	2.14	0.62
1:n:901:LEU:CG	1:n:902:ALA:HB2	2.29	0.62
1:A:742:PRO:CB	1:D:810:ARG:HD3	2.29	0.62
1:A:901:LEU:CG	1:A:902:ALA:HB2	2.29	0.62
2:B:936:MET:HE2	2:B:936:MET:N	2.14	0.62
1:D:801:ARG:NE	1:G:759:VAL:HG21	2.14	0.62
2:H:930:MET:HE3	3:I:1053:VAL:CG1	2.28	0.62
1:J:844:ARG:HG3	1:J:873:ILE:HD11	1.80	0.62
1:V:725:ARG:N	1:V:725:ARG:HD2	2.13	0.62
1:Y:801:ARG:NE	1:b:759:VAL:HG21	2.14	0.62
1:Y:901:LEU:CD1	2:Z:909:LYS:HA	2.27	0.62
2:Z:966:MET:HE2	2:Z:974:THR:CB	2.29	0.62
1:b:780:LEU:N	1:b:780:LEU:HD23	2.13	0.62
2:c:939:ILE:HG21	2:f:969:ALA:CB	2.28	0.62
1:e:725:ARG:HD2	1:e:725:ARG:N	2.13	0.62
2:f:939:ILE:HG21	2:i:969:ALA:CB	2.28	0.62
1:h:743:LYS:HD3	1:h:891:ARG:C	2.24	0.62
2:l:939:ILE:HG21	2:o:969:ALA:CB	2.28	0.62
1:n:779:ARG:C	1:n:780:LEU:HD23	2.24	0.62
1:G:764:SER:HB2	1:G:786:TRP:HZ3	1.64	0.62
1:J:777:LEU:HB3	2:K:916:LYS:HZ3	1.62	0.62
1:M:725:ARG:HD2	1:M:725:ARG:N	2.13	0.62
1:P:780:LEU:N	1:P:780:LEU:HD23	2.13	0.62
1:P:844:ARG:HG3	1:P:873:ILE:HD11	1.79	0.62
1:P:901:LEU:CG	1:P:902:ALA:HB2	2.29	0.62
1:S:720:ASN:HB2	1:Y:805:LEU:HD23	1.79	0.62
1:S:779:ARG:C	1:S:780:LEU:HD23	2.24	0.62
1:V:801:ARG:NE	1:Y:759:VAL:HG21	2.14	0.62
1:b:743:LYS:HD3	1:b:891:ARG:C	2.23	0.62
1:b:863:ALA:CB	1:e:862:LEU:HD22	2.23	0.62
2:f:936:MET:HE2	2:f:936:MET:N	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:1013:PHE:C	2:f:1015:PRO:HD3	2.24	0.62
1:h:720:ASN:HB2	1:n:805:LEU:HD23	1.80	0.62
2:o:966:MET:HE2	2:o:974:THR:CB	2.29	0.62
2:B:916:LYS:HB2	2:B:1029:VAL:HG21	1.81	0.62
2:B:969:ALA:CB	2:o:939:ILE:HG21	2.28	0.62
1:D:742:PRO:CB	1:G:810:ARG:HD3	2.29	0.62
1:D:901:LEU:CG	1:D:902:ALA:HB2	2.29	0.62
2:E:966:MET:HE2	2:E:974:THR:CB	2.29	0.62
1:G:719:LYS:O	1:M:790:GLN:NE2	2.33	0.62
1:G:720:ASN:HB2	1:M:805:LEU:HD23	1.79	0.62
1:G:742:PRO:CB	1:J:810:ARG:HD3	2.29	0.62
1:M:901:LEU:CG	1:M:902:ALA:HB2	2.29	0.62
1:P:721:LEU:O	1:V:805:LEU:C	2.42	0.62
1:S:780:LEU:HD23	1:S:780:LEU:N	2.13	0.62
2:T:1013:PHE:C	2:T:1015:PRO:HD3	2.24	0.62
1:V:779:ARG:C	1:V:780:LEU:HD23	2.24	0.62
1:Y:742:PRO:CB	1:b:810:ARG:HD3	2.29	0.62
2:Z:965:TYR:HA	2:Z:976:PRO:CD	2.28	0.62
1:b:787:VAL:HG11	1:b:806:TRP:HB3	1.81	0.62
2:l:916:LYS:HB2	2:l:1029:VAL:HG21	1.81	0.62
2:l:980:VAL:HA	2:l:988:ILE:HA	1.81	0.62
2:B:919:ALA:HB2	2:B:1028:ASP:OD2	2.00	0.62
1:D:733:VAL:HA	1:G:816:THR:H	1.65	0.62
1:G:721:LEU:O	1:M:805:LEU:C	2.42	0.62
1:J:721:LEU:O	1:P:805:LEU:C	2.42	0.62
1:J:733:VAL:HA	1:M:816:THR:H	1.65	0.62
2:K:919:ALA:HB2	2:K:1028:ASP:OD2	2.00	0.62
2:K:1013:PHE:C	2:K:1015:PRO:HD3	2.24	0.62
1:M:764:SER:HB2	1:M:786:TRP:HZ3	1.64	0.62
2:N:966:MET:HE2	2:N:974:THR:CB	2.29	0.62
1:P:733:VAL:HA	1:S:816:THR:H	1.65	0.62
1:P:779:ARG:C	1:P:780:LEU:HD23	2.24	0.62
2:Q:907:ASP:O	2:Q:911:ILE:HG22	2.00	0.62
2:Q:939:ILE:HG21	2:T:969:ALA:CB	2.28	0.62
2:T:936:MET:N	2:T:936:MET:HE2	2.14	0.62
1:V:719:LYS:O	1:b:790:GLN:NE2	2.33	0.62
1:V:901:LEU:CD1	2:W:909:LYS:HA	2.27	0.62
2:W:936:MET:N	2:W:936:MET:HE2	2.14	0.62
1:Y:745:LYS:CD	1:Y:771:VAL:HG13	2.28	0.62
1:Y:844:ARG:HG3	1:Y:873:ILE:HD11	1.80	0.62
2:Z:980:VAL:HA	2:Z:988:ILE:HA	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:966:MET:HE2	2:c:974:THR:CB	2.28	0.62
1:e:755:LEU:C	1:e:755:LEU:HD23	2.25	0.62
1:e:863:ALA:CB	1:h:862:LEU:HD22	2.23	0.62
1:h:755:LEU:HD23	1:h:755:LEU:C	2.25	0.62
2:i:907:ASP:O	2:i:911:ILE:HG22	2.00	0.62
2:i:980:VAL:HB	2:i:987:ILE:O	1.98	0.62
2:l:966:MET:HE2	2:l:974:THR:CB	2.28	0.62
2:l:980:VAL:HB	2:l:987:ILE:O	1.98	0.62
1:A:790:GLN:NE2	1:k:719:LYS:O	2.33	0.62
1:A:862:LEU:HD22	1:n:863:ALA:CB	2.23	0.62
2:B:929:VAL:CG2	2:B:1009:ARG:HG2	2.23	0.62
1:D:787:VAL:HG11	1:D:806:TRP:HB3	1.81	0.62
2:E:936:MET:HE2	2:E:936:MET:N	2.14	0.62
1:P:901:LEU:HD11	2:Q:909:LYS:C	2.23	0.62
2:Q:919:ALA:HB2	2:Q:1028:ASP:OD2	2.00	0.62
2:Q:1013:PHE:C	2:Q:1015:PRO:HD3	2.24	0.62
1:S:742:PRO:CB	1:V:810:ARG:HD3	2.29	0.62
2:T:919:ALA:HB2	2:T:1028:ASP:OD2	2.00	0.62
1:V:742:PRO:CB	1:Y:810:ARG:HD3	2.29	0.62
2:Z:919:ALA:HB2	2:Z:1028:ASP:OD2	2.00	0.62
1:b:721:LEU:O	1:h:805:LEU:C	2.42	0.62
2:c:1013:PHE:C	2:c:1015:PRO:HD3	2.24	0.62
1:h:719:LYS:O	1:n:790:GLN:NE2	2.33	0.62
1:k:780:LEU:N	1:k:780:LEU:HD23	2.13	0.62
1:k:863:ALA:CB	1:n:862:LEU:HD22	2.23	0.62
2:B:907:ASP:O	2:B:911:ILE:HG22	2.00	0.62
1:G:801:ARG:NE	1:J:759:VAL:HG21	2.14	0.62
2:H:936:MET:HE2	2:H:936:MET:N	2.14	0.62
1:J:780:LEU:N	1:J:780:LEU:HD23	2.13	0.62
1:J:901:LEU:CG	1:J:902:ALA:HB2	2.29	0.62
1:M:719:LYS:O	1:S:790:GLN:NE2	2.33	0.62
1:M:743:LYS:HD3	1:M:891:ARG:C	2.24	0.62
2:T:907:ASP:O	2:T:911:ILE:HG22	2.00	0.62
2:f:929:VAL:HG22	2:f:1009:ARG:CG	2.23	0.62
1:h:863:ALA:CB	1:k:862:LEU:HD22	2.23	0.62
1:A:719:LYS:O	1:G:790:GLN:NE2	2.33	0.62
1:A:863:ALA:CB	1:D:862:LEU:HD22	2.23	0.62
1:D:779:ARG:C	1:D:780:LEU:HD23	2.24	0.62
1:G:779:ARG:C	1:G:780:LEU:HD23	2.24	0.62
2:H:919:ALA:HB2	2:H:1028:ASP:OD2	2.00	0.62
2:N:907:ASP:O	2:N:911:ILE:HG22	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:980:VAL:HA	2:N:988:ILE:HA	1.81	0.62
1:P:719:LYS:O	1:V:790:GLN:NE2	2.33	0.62
1:P:742:PRO:CB	1:S:810:ARG:HD3	2.29	0.62
1:V:745:LYS:CD	1:V:771:VAL:HG13	2.28	0.62
2:Z:936:MET:N	2:Z:936:MET:HE2	2.14	0.62
1:b:755:LEU:C	1:b:755:LEU:HD23	2.25	0.62
1:b:801:ARG:NE	1:e:759:VAL:HG21	2.14	0.62
1:b:901:LEU:CD1	2:c:909:LYS:HA	2.27	0.62
2:f:907:ASP:O	2:f:911:ILE:HG22	2.00	0.62
1:h:736:ASN:CB	1:h:739:LEU:HG	2.26	0.62
2:i:980:VAL:HA	2:i:988:ILE:HA	1.81	0.62
1:k:733:VAL:HA	1:n:816:THR:H	1.65	0.62
1:k:755:LEU:HD23	1:k:755:LEU:C	2.25	0.62
2:l:930:MET:HE1	3:m:1053:VAL:HG13	1.81	0.62
2:E:930:MET:HE3	3:F:1053:VAL:CG1	2.28	0.62
1:G:901:LEU:CG	1:G:902:ALA:HB2	2.29	0.62
2:H:916:LYS:HB2	2:H:1029:VAL:HG21	1.81	0.62
2:K:929:VAL:CG2	2:K:1009:ARG:HG2	2.23	0.62
1:M:742:PRO:CB	1:P:810:ARG:HD3	2.29	0.62
2:N:954:GLU:HA	2:N:987:ILE:CG1	2.19	0.62
2:N:1013:PHE:C	2:N:1015:PRO:HD3	2.24	0.62
2:W:954:GLU:HA	2:W:987:ILE:CG1	2.19	0.62
1:Y:719:LYS:O	1:e:790:GLN:NE2	2.33	0.62
1:Y:787:VAL:HG11	1:Y:806:TRP:HB3	1.81	0.62
1:b:733:VAL:HA	1:e:816:THR:H	1.65	0.62
1:b:901:LEU:HD11	2:c:909:LYS:C	2.23	0.62
2:i:929:VAL:HG22	2:i:1009:ARG:CG	2.23	0.62
1:k:779:ARG:C	1:k:780:LEU:HD23	2.24	0.62
1:k:891:ARG:HH11	1:k:891:ARG:CB	2.06	0.62
1:n:755:LEU:HD23	1:n:755:LEU:C	2.25	0.62
2:o:907:ASP:O	2:o:911:ILE:HG22	2.00	0.62
2:o:980:VAL:HB	2:o:987:ILE:O	1.98	0.62
1:A:805:LEU:HB2	1:k:721:LEU:HD23	1.69	0.62
2:B:912:THR:HG22	2:B:1029:VAL:HG22	1.82	0.62
1:D:790:GLN:NE2	1:n:719:LYS:O	2.33	0.62
2:E:916:LYS:HB2	2:E:1029:VAL:HG21	1.81	0.62
1:G:726:LEU:HD13	1:J:891:ARG:CZ	2.30	0.62
1:J:726:LEU:HD13	1:M:891:ARG:CZ	2.30	0.62
1:J:742:PRO:CB	1:M:810:ARG:HD3	2.29	0.62
2:N:930:MET:HE1	3:O:1053:VAL:HG13	1.81	0.62
2:N:939:ILE:HG21	2:Q:969:ALA:CB	2.28	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:755:LEU:HD23	1:P:755:LEU:C	2.25	0.62
1:P:801:ARG:NE	1:S:759:VAL:HG21	2.14	0.62
2:Q:954:GLU:HA	2:Q:987:ILE:CG1	2.19	0.62
1:S:755:LEU:HD23	1:S:755:LEU:C	2.25	0.62
1:V:733:VAL:HA	1:Y:816:THR:H	1.65	0.62
1:Y:779:ARG:C	1:Y:780:LEU:HD23	2.24	0.62
2:Z:1013:PHE:C	2:Z:1015:PRO:HD3	2.24	0.62
1:e:726:LEU:HD13	1:h:891:ARG:CZ	2.30	0.62
2:f:930:MET:HE3	3:g:1053:VAL:CG1	2.28	0.62
2:o:912:THR:HG22	2:o:1029:VAL:HG22	1.82	0.62
2:o:916:LYS:HB2	2:o:1029:VAL:HG21	1.81	0.62
1:A:755:LEU:HD23	1:A:755:LEU:C	2.25	0.61
1:A:816:THR:H	1:n:733:VAL:HA	1.65	0.61
1:D:755:LEU:HD23	1:D:755:LEU:C	2.25	0.61
1:D:863:ALA:CB	1:G:862:LEU:HD22	2.23	0.61
2:E:912:THR:HG22	2:E:1029:VAL:HG22	1.82	0.61
1:J:801:ARG:NE	1:M:759:VAL:HG21	2.14	0.61
2:K:907:ASP:O	2:K:911:ILE:HG22	2.00	0.61
2:K:936:MET:HE2	2:K:936:MET:N	2.14	0.61
1:M:779:ARG:C	1:M:780:LEU:HD23	2.24	0.61
1:S:719:LYS:O	1:Y:790:GLN:NE2	2.33	0.61
1:S:745:LYS:CD	1:S:771:VAL:HG13	2.28	0.61
1:S:801:ARG:NE	1:V:759:VAL:HG21	2.14	0.61
2:T:954:GLU:HA	2:T:987:ILE:CG1	2.19	0.61
1:Y:733:VAL:HA	1:b:816:THR:H	1.65	0.61
1:b:719:LYS:O	1:h:790:GLN:NE2	2.33	0.61
2:c:907:ASP:O	2:c:911:ILE:HG22	2.00	0.61
2:c:980:VAL:HA	2:c:988:ILE:HA	1.81	0.61
1:e:779:ARG:C	1:e:780:LEU:HD23	2.24	0.61
2:f:916:LYS:HB2	2:f:1029:VAL:HG21	1.81	0.61
1:h:726:LEU:HD13	1:k:891:ARG:CZ	2.30	0.61
2:l:912:THR:HG22	2:l:1029:VAL:HG22	1.82	0.61
2:l:919:ALA:HB2	2:l:1028:ASP:OD2	2.00	0.61
1:G:736:ASN:CB	1:G:739:LEU:HG	2.26	0.61
1:G:745:LYS:CD	1:G:771:VAL:HG13	2.28	0.61
1:G:755:LEU:C	1:G:755:LEU:HD23	2.25	0.61
1:J:745:LYS:CD	1:J:771:VAL:HG13	2.28	0.61
1:M:745:LYS:CD	1:M:771:VAL:HG13	2.28	0.61
1:M:755:LEU:HD23	1:M:755:LEU:C	2.25	0.61
1:M:801:ARG:NE	1:P:759:VAL:HG21	2.14	0.61
1:P:745:LYS:CD	1:P:771:VAL:HG13	2.28	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:721:LEU:O	1:Y:805:LEU:C	2.42	0.61
1:S:764:SER:HB2	1:S:786:TRP:HZ3	1.64	0.61
1:V:787:VAL:HG11	1:V:806:TRP:HB3	1.81	0.61
2:W:907:ASP:O	2:W:911:ILE:HG22	2.00	0.61
2:Z:907:ASP:O	2:Z:911:ILE:HG22	2.00	0.61
1:e:719:LYS:O	1:k:790:GLN:NE2	2.33	0.61
2:f:919:ALA:HB2	2:f:1028:ASP:OD2	2.00	0.61
2:f:980:VAL:HA	2:f:988:ILE:HA	1.81	0.61
1:D:805:LEU:HD23	1:n:720:ASN:HB2	1.79	0.61
1:J:719:LYS:O	1:P:790:GLN:NE2	2.33	0.61
2:K:954:GLU:HA	2:K:987:ILE:CG1	2.19	0.61
2:N:936:MET:HE2	2:N:936:MET:N	2.14	0.61
1:P:725:ARG:NH2	1:V:808:ARG:HB2	2.05	0.61
1:S:726:LEU:HD13	1:V:891:ARG:CZ	2.30	0.61
1:V:755:LEU:HD23	1:V:755:LEU:C	2.25	0.61
2:W:1013:PHE:C	2:W:1015:PRO:HD3	2.24	0.61
2:l:929:VAL:HG22	2:l:1009:ARG:CG	2.23	0.61
1:A:902:ALA:HA	2:B:912:THR:HG21	1.83	0.61
1:D:719:LYS:O	1:J:790:GLN:NE2	2.33	0.61
1:D:902:ALA:HA	2:E:912:THR:HG21	1.83	0.61
2:E:907:ASP:O	2:E:911:ILE:HG22	2.00	0.61
1:G:787:VAL:HG11	1:G:806:TRP:HB3	1.81	0.61
1:G:810:ARG:HG3	1:G:811:ASN:O	2.00	0.61
1:G:902:ALA:HA	2:H:912:THR:HG21	1.83	0.61
2:H:912:THR:HG22	2:H:1029:VAL:HG22	1.82	0.61
1:J:779:ARG:C	1:J:780:LEU:HD23	2.24	0.61
1:J:902:ALA:HA	2:K:912:THR:HG21	1.83	0.61
2:K:916:LYS:HB2	2:K:1029:VAL:HG21	1.81	0.61
1:M:902:ALA:HA	2:N:912:THR:HG21	1.82	0.61
1:P:764:SER:HB2	1:P:786:TRP:HZ3	1.64	0.61
1:S:721:LEU:O	1:Y:789:GLY:HA2	2.00	0.61
1:V:721:LEU:O	1:b:789:GLY:HA2	2.00	0.61
1:V:726:LEU:HD13	1:Y:891:ARG:CZ	2.30	0.61
1:Y:725:ARG:NH2	1:e:808:ARG:HB2	2.05	0.61
1:Y:755:LEU:HD23	1:Y:755:LEU:C	2.25	0.61
2:i:912:THR:HG22	2:i:1029:VAL:HG22	1.82	0.61
1:k:726:LEU:HD13	1:n:891:ARG:CZ	2.30	0.61
1:D:745:LYS:CD	1:D:771:VAL:HG13	2.28	0.61
1:J:755:LEU:C	1:J:755:LEU:HD23	2.25	0.61
2:K:980:VAL:HA	2:K:988:ILE:HA	1.81	0.61
1:P:721:LEU:O	1:V:789:GLY:HA2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:936:MET:HE2	2:Q:936:MET:N	2.14	0.61
2:T:916:LYS:HB2	2:T:1029:VAL:HG21	1.81	0.61
1:b:726:LEU:HD13	1:e:891:ARG:CZ	2.30	0.61
1:h:721:LEU:O	1:n:805:LEU:C	2.42	0.61
1:h:779:ARG:HB2	2:i:1025:ALA:CA	2.31	0.61
1:h:780:LEU:HD23	1:h:780:LEU:N	2.13	0.61
1:h:901:LEU:CD1	2:i:909:LYS:HA	2.27	0.61
2:i:930:MET:HE1	3:j:1053:VAL:HG13	1.81	0.61
1:k:766:ARG:HD3	1:k:786:TRP:CD1	2.36	0.61
1:n:766:ARG:HD3	1:n:786:TRP:CD1	2.36	0.61
2:o:930:MET:HE1	3:p:1053:VAL:HG13	1.82	0.61
1:D:726:LEU:HD13	1:G:891:ARG:CZ	2.30	0.61
1:D:753:THR:HG22	1:D:754:GLU:N	2.16	0.61
2:E:919:ALA:HB2	2:E:1028:ASP:OD2	2.00	0.61
1:G:863:ALA:CB	1:J:862:LEU:HD22	2.23	0.61
1:S:787:VAL:HG11	1:S:806:TRP:HB3	1.81	0.61
1:S:901:LEU:CD1	2:T:909:LYS:HA	2.27	0.61
2:c:919:ALA:HB2	2:c:1028:ASP:OD2	2.00	0.61
1:e:720:ASN:HB2	1:k:805:LEU:HD23	1.80	0.61
2:i:916:LYS:HB2	2:i:1029:VAL:HG21	1.81	0.61
2:l:907:ASP:O	2:l:911:ILE:HG22	2.00	0.61
2:l:930:MET:HE3	3:m:1053:VAL:CG1	2.28	0.61
1:A:766:ARG:HD3	1:A:786:TRP:CD1	2.36	0.61
1:G:753:THR:HG22	1:G:754:GLU:N	2.16	0.61
1:J:753:THR:HG22	1:J:754:GLU:N	2.16	0.61
1:J:810:ARG:HG3	1:J:811:ASN:O	2.00	0.61
1:M:721:LEU:O	1:S:789:GLY:HA2	2.00	0.61
1:M:726:LEU:HD13	1:P:891:ARG:CZ	2.30	0.61
1:P:902:ALA:HA	2:Q:912:THR:HG21	1.83	0.61
1:S:736:ASN:CB	1:S:739:LEU:HG	2.26	0.61
1:Y:766:ARG:HD3	1:Y:786:TRP:CD1	2.36	0.61
1:b:766:ARG:HD3	1:b:786:TRP:CD1	2.36	0.61
1:e:766:ARG:HD3	1:e:786:TRP:CD1	2.36	0.61
2:o:929:VAL:HG22	2:o:1009:ARG:CG	2.23	0.61
1:A:745:LYS:CD	1:A:771:VAL:HG13	2.28	0.61
1:A:789:GLY:HA2	1:k:721:LEU:O	2.00	0.61
1:P:787:VAL:HG11	1:P:806:TRP:HB3	1.81	0.61
1:S:810:ARG:HG3	1:S:811:ASN:O	2.00	0.61
1:Y:721:LEU:O	1:e:789:GLY:HA2	2.00	0.61
2:Z:916:LYS:HB2	2:Z:1029:VAL:HG21	1.81	0.61
2:l:954:GLU:HA	2:l:987:ILE:CG1	2.19	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:902:ALA:HA	2:o:912:THR:HG21	1.83	0.61
2:B:974:THR:HG22	2:B:975:LEU:N	2.16	0.61
2:H:974:THR:HG22	2:H:975:LEU:N	2.16	0.61
1:J:725:ARG:NH2	1:P:808:ARG:HB2	2.05	0.61
1:J:787:VAL:HG11	1:J:806:TRP:HB3	1.81	0.61
2:K:965:TYR:CD1	2:K:975:LEU:HB2	2.36	0.61
1:M:787:VAL:HG11	1:M:806:TRP:HB3	1.81	0.61
1:M:850:MET:HG3	1:M:854:PHE:CZ	2.36	0.61
1:P:867:LEU:HD12	1:S:851:ILE:HD12	1.83	0.61
1:P:901:LEU:CD1	2:Q:909:LYS:HA	2.27	0.61
2:T:965:TYR:CD1	2:T:975:LEU:HB2	2.36	0.61
1:V:766:ARG:HD3	1:V:786:TRP:CD1	2.36	0.61
1:V:850:MET:HG3	1:V:854:PHE:CZ	2.36	0.61
1:V:891:ARG:HH11	1:V:891:ARG:CB	2.06	0.61
2:W:916:LYS:HB2	2:W:1029:VAL:HG21	1.81	0.61
2:W:919:ALA:HB2	2:W:1028:ASP:OD2	2.00	0.61
1:b:810:ARG:HG3	1:b:811:ASN:O	2.00	0.61
1:e:733:VAL:HA	1:h:816:THR:H	1.65	0.61
1:e:779:ARG:HB2	2:f:1025:ALA:CA	2.31	0.61
1:h:733:VAL:HA	1:k:816:THR:H	1.65	0.61
1:h:766:ARG:HD3	1:h:786:TRP:CD1	2.36	0.61
2:i:965:TYR:CD1	2:i:975:LEU:HB2	2.36	0.61
1:n:753:THR:HG22	1:n:754:GLU:N	2.16	0.61
1:A:891:ARG:CZ	1:n:726:LEU:HD13	2.30	0.61
2:B:965:TYR:CD1	2:B:975:LEU:HB2	2.36	0.61
1:D:779:ARG:HB2	2:E:1025:ALA:CA	2.31	0.61
1:D:789:GLY:HA2	1:n:721:LEU:O	2.00	0.61
2:N:919:ALA:HB2	2:N:1028:ASP:OD2	2.00	0.61
1:P:777:LEU:HB3	2:Q:916:LYS:HZ3	1.66	0.61
1:P:810:ARG:HG3	1:P:811:ASN:O	2.00	0.61
1:S:733:VAL:HA	1:V:816:THR:H	1.65	0.61
1:S:867:LEU:HD12	1:V:851:ILE:HD12	1.83	0.61
1:Y:850:MET:HG3	1:Y:854:PHE:CZ	2.36	0.61
1:Y:867:LEU:HD12	1:b:851:ILE:HD12	1.83	0.61
1:b:779:ARG:C	1:b:780:LEU:HD23	2.24	0.61
1:e:901:LEU:CD1	2:f:909:LYS:HA	2.27	0.61
1:k:902:ALA:HA	2:l:912:THR:HG21	1.83	0.61
2:l:974:THR:HG22	2:l:975:LEU:N	2.16	0.61
1:A:753:THR:HG22	1:A:754:GLU:N	2.16	0.60
1:A:779:ARG:HB2	2:B:1025:ALA:CA	2.31	0.60
2:B:928:TYR:HB3	3:C:1053:VAL:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:929:VAL:HG22	2:B:1009:ARG:CG	2.23	0.60
1:D:766:ARG:HD3	1:D:786:TRP:CD1	2.36	0.60
1:G:779:ARG:HB2	2:H:1025:ALA:CA	2.31	0.60
1:G:891:ARG:HH11	1:G:891:ARG:CB	2.06	0.60
2:H:907:ASP:O	2:H:911:ILE:HG22	2.00	0.60
2:K:912:THR:HG22	2:K:1029:VAL:HG22	1.82	0.60
2:N:965:TYR:CD1	2:N:975:LEU:HB2	2.36	0.60
1:P:726:LEU:HD13	1:S:891:ARG:CZ	2.30	0.60
2:Q:916:LYS:HB2	2:Q:1029:VAL:HG21	1.81	0.60
1:S:850:MET:HG3	1:S:854:PHE:CZ	2.36	0.60
2:T:980:VAL:CG1	2:T:988:ILE:HG12	2.29	0.60
1:Y:810:ARG:HG3	1:Y:811:ASN:O	2.00	0.60
2:Z:965:TYR:CD1	2:Z:975:LEU:HB2	2.36	0.60
1:b:850:MET:HG3	1:b:854:PHE:CZ	2.36	0.60
2:c:930:MET:HE1	3:d:1053:VAL:HG13	1.82	0.60
2:c:974:THR:HG22	2:c:975:LEU:N	2.16	0.60
1:e:721:LEU:O	1:k:789:GLY:HA2	2.00	0.60
1:e:810:ARG:HG3	1:e:811:ASN:O	2.00	0.60
2:f:974:THR:HG22	2:f:975:LEU:N	2.16	0.60
1:h:810:ARG:HG3	1:h:811:ASN:O	2.00	0.60
1:h:850:MET:HG3	1:h:854:PHE:CZ	2.36	0.60
2:l:928:TYR:HB3	3:m:1053:VAL:HG21	1.83	0.60
2:o:919:ALA:HB2	2:o:1028:ASP:OD2	2.00	0.60
2:o:928:TYR:HB3	3:p:1053:VAL:HG21	1.83	0.60
2:o:930:MET:HE3	3:p:1053:VAL:CG1	2.28	0.60
2:o:965:TYR:CD1	2:o:975:LEU:HB2	2.36	0.60
2:B:930:MET:HE3	3:C:1053:VAL:CG1	2.28	0.60
1:J:721:LEU:O	1:P:789:GLY:HA2	2.00	0.60
1:J:760:PRO:HB3	1:J:792:THR:O	2.01	0.60
1:J:850:MET:HG3	1:J:854:PHE:CZ	2.36	0.60
1:P:753:THR:HG22	1:P:754:GLU:N	2.16	0.60
1:P:808:ARG:CG	1:P:819:ASN:HA	2.31	0.60
1:P:850:MET:HG3	1:P:854:PHE:CZ	2.36	0.60
1:S:777:LEU:O	2:T:916:LYS:HE2	2.01	0.60
1:V:867:LEU:HD12	1:Y:851:ILE:HD12	1.83	0.60
2:Z:974:THR:HG22	2:Z:975:LEU:N	2.16	0.60
1:b:721:LEU:O	1:h:789:GLY:HA2	2.00	0.60
1:b:760:PRO:HB3	1:b:792:THR:O	2.01	0.60
2:c:965:TYR:CD1	2:c:975:LEU:HB2	2.36	0.60
1:e:850:MET:HG3	1:e:854:PHE:CZ	2.36	0.60
2:i:929:VAL:CG2	2:i:1009:ARG:HG2	2.23	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:760:PRO:HB3	1:k:792:THR:O	2.01	0.60
1:A:760:PRO:HB3	1:A:792:THR:O	2.01	0.60
1:G:721:LEU:O	1:M:789:GLY:HA2	2.00	0.60
1:G:777:LEU:O	2:H:916:LYS:HE2	2.01	0.60
1:J:779:ARG:HB2	2:K:1025:ALA:CA	2.31	0.60
1:M:808:ARG:CG	1:M:819:ASN:HA	2.31	0.60
1:S:766:ARG:HD3	1:S:786:TRP:CD1	2.36	0.60
1:S:902:ALA:HA	2:T:912:THR:HG21	1.83	0.60
2:T:912:THR:HG22	2:T:1029:VAL:HG22	1.82	0.60
2:T:974:THR:HG22	2:T:975:LEU:N	2.16	0.60
2:W:974:THR:HG22	2:W:975:LEU:N	2.16	0.60
1:Y:726:LEU:HD13	1:b:891:ARG:CZ	2.30	0.60
1:b:867:LEU:HD12	1:e:851:ILE:HD12	1.83	0.60
1:h:760:PRO:HB3	1:h:792:THR:O	2.01	0.60
2:i:919:ALA:HB2	2:i:1028:ASP:OD2	2.00	0.60
1:k:901:LEU:CD1	2:l:909:LYS:HA	2.27	0.60
1:n:745:LYS:CD	1:n:771:VAL:HG13	2.28	0.60
1:n:760:PRO:HB3	1:n:792:THR:O	2.01	0.60
2:E:928:TYR:HB3	3:F:1053:VAL:HG21	1.83	0.60
1:G:766:ARG:HD3	1:G:786:TRP:CD1	2.36	0.60
1:G:850:MET:HG3	1:G:854:PHE:CZ	2.36	0.60
2:H:965:TYR:CD1	2:H:975:LEU:HB2	2.36	0.60
1:J:808:ARG:CG	1:J:819:ASN:HA	2.31	0.60
1:J:863:ALA:CB	1:M:862:LEU:HD22	2.23	0.60
2:N:916:LYS:HB2	2:N:1029:VAL:HG21	1.81	0.60
2:Q:974:THR:HG22	2:Q:975:LEU:N	2.16	0.60
1:S:808:ARG:CG	1:S:819:ASN:HA	2.31	0.60
2:T:930:MET:HE1	3:U:1053:VAL:HG13	1.82	0.60
1:V:725:ARG:NH2	1:b:808:ARG:HB2	2.05	0.60
1:V:810:ARG:HG3	1:V:811:ASN:O	2.00	0.60
2:W:912:THR:HG22	2:W:1029:VAL:HG22	1.82	0.60
1:e:760:PRO:HB3	1:e:792:THR:O	2.01	0.60
1:h:777:LEU:O	2:i:916:LYS:HE2	2.01	0.60
1:h:902:ALA:HA	2:i:912:THR:HG21	1.82	0.60
2:i:974:THR:HG22	2:i:975:LEU:N	2.16	0.60
2:i:984:ASN:HB2	3:j:1061:THR:HG21	1.83	0.60
1:k:777:LEU:O	2:l:916:LYS:HE2	2.01	0.60
1:k:810:ARG:HG3	1:k:811:ASN:O	2.00	0.60
1:A:726:LEU:HD13	1:D:891:ARG:CZ	2.30	0.60
1:A:733:VAL:HA	1:D:816:THR:H	1.65	0.60
1:D:810:ARG:HG3	1:D:811:ASN:O	2.00	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:965:TYR:CD1	2:E:975:LEU:HB2	2.36	0.60
1:J:766:ARG:HD3	1:J:786:TRP:CD1	2.36	0.60
2:N:974:THR:HG22	2:N:975:LEU:N	2.16	0.60
1:P:777:LEU:O	2:Q:916:LYS:HE2	2.01	0.60
2:Z:930:MET:HE1	3:a:1053:VAL:HG13	1.82	0.60
1:b:779:ARG:HB2	2:c:1025:ALA:CA	2.31	0.60
2:c:929:VAL:CG2	2:c:1009:ARG:HG2	2.23	0.60
2:c:930:MET:HE3	3:d:1053:VAL:CG1	2.28	0.60
2:i:928:TYR:HB3	3:j:1053:VAL:HG21	1.83	0.60
1:k:850:MET:HG3	1:k:854:PHE:CZ	2.36	0.60
2:l:965:TYR:CD1	2:l:975:LEU:HB2	2.36	0.60
2:l:984:ASN:HB2	3:m:1061:THR:HG21	1.83	0.60
1:n:779:ARG:HB2	2:o:1025:ALA:CA	2.31	0.60
1:D:760:PRO:HB3	1:D:792:THR:O	2.02	0.60
1:D:805:LEU:C	1:n:721:LEU:O	2.42	0.60
2:E:930:MET:HE1	3:F:1053:VAL:HG13	1.82	0.60
2:E:935:GLU:HB3	2:E:1004:LYS:NZ	2.17	0.60
1:G:733:VAL:HA	1:J:816:THR:H	1.65	0.60
2:H:954:GLU:HA	2:H:987:ILE:CG1	2.19	0.60
1:J:777:LEU:O	2:K:916:LYS:HE2	2.01	0.60
2:K:935:GLU:HB3	2:K:1004:LYS:NZ	2.17	0.60
2:K:974:THR:HG22	2:K:975:LEU:N	2.16	0.60
2:K:984:ASN:HB2	3:L:1061:THR:HG21	1.83	0.60
1:M:733:VAL:HA	1:P:816:THR:H	1.65	0.60
1:M:766:ARG:HD3	1:M:786:TRP:CD1	2.36	0.60
1:M:867:LEU:HD12	1:P:851:ILE:HD12	1.83	0.60
1:M:901:LEU:CD1	2:N:909:LYS:HA	2.27	0.60
2:Q:935:GLU:HB3	2:Q:1004:LYS:NZ	2.17	0.60
2:Q:965:TYR:CD1	2:Q:975:LEU:HB2	2.36	0.60
1:V:777:LEU:O	2:W:916:LYS:HE2	2.01	0.60
1:V:902:ALA:HA	2:W:912:THR:HG21	1.83	0.60
2:W:935:GLU:HB3	2:W:1004:LYS:NZ	2.17	0.60
2:c:916:LYS:HB2	2:c:1029:VAL:HG21	1.81	0.60
2:f:912:THR:HG22	2:f:1029:VAL:HG22	1.82	0.60
1:h:753:THR:HG22	1:h:754:GLU:N	2.16	0.60
2:o:974:THR:HG22	2:o:975:LEU:N	2.16	0.60
1:G:808:ARG:CG	1:G:819:ASN:HA	2.31	0.60
1:M:753:THR:HG22	1:M:754:GLU:N	2.16	0.60
1:M:777:LEU:O	2:N:916:LYS:HE2	2.01	0.60
1:M:779:ARG:HB2	2:N:1025:ALA:CA	2.31	0.60
1:P:766:ARG:HD3	1:P:786:TRP:CD1	2.36	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:984:ASN:HB2	3:U:1061:THR:HG21	1.83	0.60
1:V:808:ARG:CG	1:V:819:ASN:HA	2.31	0.60
1:e:777:LEU:O	2:f:916:LYS:HE2	2.01	0.60
2:f:930:MET:HE1	3:g:1053:VAL:HG13	1.81	0.60
2:f:984:ASN:HB2	3:g:1061:THR:HG21	1.83	0.60
1:n:777:LEU:O	2:o:916:LYS:HE2	2.01	0.60
1:n:810:ARG:HG3	1:n:811:ASN:O	2.00	0.60
1:A:862:LEU:HD11	1:n:867:LEU:HD13	1.84	0.60
2:E:929:VAL:CG2	2:E:1009:ARG:HG2	2.23	0.60
1:G:760:PRO:HB3	1:G:792:THR:O	2.01	0.60
2:H:930:MET:HE1	3:I:1053:VAL:HG13	1.82	0.60
1:P:734:MET:SD	1:S:815:GLY:HA2	2.42	0.60
1:V:726:LEU:CD1	1:Y:891:ARG:HH12	2.14	0.60
2:Z:912:THR:HG22	2:Z:1029:VAL:HG22	1.82	0.60
1:k:745:LYS:CD	1:k:771:VAL:HG13	2.28	0.60
1:k:867:LEU:HD13	1:n:862:LEU:HD11	1.84	0.60
2:o:984:ASN:HB2	3:p:1061:THR:HG21	1.83	0.60
1:A:734:MET:SD	1:D:815:GLY:HA2	2.42	0.60
1:A:850:MET:HG3	1:A:854:PHE:CZ	2.36	0.60
1:D:721:LEU:O	1:J:789:GLY:HA2	2.00	0.60
1:D:777:LEU:O	2:E:916:LYS:HE2	2.01	0.60
2:E:929:VAL:HG22	2:E:1009:ARG:CG	2.23	0.60
2:E:974:THR:HG22	2:E:975:LEU:N	2.16	0.60
1:J:867:LEU:HD12	1:M:851:ILE:HD12	1.83	0.60
1:M:810:ARG:HG3	1:M:811:ASN:O	2.00	0.60
2:Q:912:THR:HG22	2:Q:1029:VAL:HG22	1.82	0.60
2:T:935:GLU:HB3	2:T:1004:LYS:NZ	2.17	0.60
2:Z:930:MET:HE3	3:a:1053:VAL:CG1	2.28	0.60
1:e:902:ALA:HA	2:f:912:THR:HG21	1.83	0.60
2:f:935:GLU:HB3	2:f:1004:LYS:NZ	2.17	0.60
2:f:965:TYR:CD1	2:f:975:LEU:HB2	2.36	0.60
1:h:808:ARG:HG2	1:h:819:ASN:CA	2.32	0.60
1:k:753:THR:HG22	1:k:754:GLU:N	2.16	0.60
1:k:779:ARG:HB2	2:l:1025:ALA:CA	2.31	0.60
1:A:815:GLY:HA2	1:n:734:MET:SD	2.42	0.60
2:B:939:ILE:HD13	2:E:969:ALA:HB1	1.84	0.60
2:B:969:ALA:HB1	2:o:939:ILE:HD13	1.84	0.60
2:B:984:ASN:HB2	3:C:1061:THR:HG21	1.83	0.60
1:D:850:MET:HG3	1:D:854:PHE:CZ	2.36	0.60
2:H:928:TYR:HB3	3:I:1053:VAL:HG21	1.83	0.60
2:H:965:TYR:HB3	2:H:974:THR:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:984:ASN:HB2	3:R:1061:THR:HG21	1.83	0.60
1:S:760:PRO:HB3	1:S:792:THR:O	2.01	0.60
2:W:965:TYR:CD1	2:W:975:LEU:HB2	2.36	0.60
1:Y:779:ARG:HB2	2:Z:1025:ALA:CA	2.31	0.60
1:Y:902:ALA:HA	2:Z:912:THR:HG21	1.83	0.60
1:e:753:THR:HG22	1:e:754:GLU:N	2.16	0.60
1:k:747:ILE:HG22	1:k:749:CYS:SG	2.42	0.60
1:k:808:ARG:HG2	1:k:819:ASN:CA	2.32	0.60
2:l:935:GLU:HB3	2:l:1004:LYS:NZ	2.17	0.60
1:n:747:ILE:HG22	1:n:749:CYS:SG	2.42	0.60
1:A:810:ARG:HG3	1:A:811:ASN:O	2.00	0.59
1:D:725:ARG:NH1	1:J:819:ASN:CB	2.65	0.59
1:G:725:ARG:NH1	1:M:819:ASN:CB	2.65	0.59
1:J:734:MET:SD	1:M:815:GLY:HA2	2.42	0.59
1:M:734:MET:SD	1:P:815:GLY:HA2	2.42	0.59
2:N:935:GLU:HB3	2:N:1004:LYS:NZ	2.17	0.59
2:N:984:ASN:HB2	3:O:1061:THR:HG21	1.83	0.59
1:V:725:ARG:NH1	1:b:819:ASN:CB	2.65	0.59
1:Y:725:ARG:NH1	1:e:819:ASN:CB	2.65	0.59
1:Y:808:ARG:CG	1:Y:819:ASN:HA	2.31	0.59
1:b:753:THR:HG22	1:b:754:GLU:N	2.16	0.59
2:c:935:GLU:HB3	2:c:1004:LYS:NZ	2.17	0.59
2:c:984:ASN:HB2	3:d:1061:THR:HG21	1.83	0.59
1:e:808:ARG:HG2	1:e:819:ASN:CA	2.32	0.59
1:n:850:MET:HG3	1:n:854:PHE:CZ	2.36	0.59
2:o:929:VAL:CG2	2:o:1009:ARG:HG2	2.23	0.59
2:o:935:GLU:HB3	2:o:1004:LYS:NZ	2.17	0.59
1:A:747:ILE:HG22	1:A:749:CYS:SG	2.42	0.59
1:A:808:ARG:HG2	1:A:819:ASN:CA	2.32	0.59
1:D:747:ILE:HG22	1:D:749:CYS:SG	2.42	0.59
1:G:747:ILE:HG22	1:G:749:CYS:SG	2.42	0.59
1:S:726:LEU:CD1	1:V:891:ARG:HH12	2.14	0.59
1:Y:721:LEU:CD2	1:e:805:LEU:HB2	2.30	0.59
1:Y:753:THR:HG22	1:Y:754:GLU:N	2.16	0.59
2:Z:935:GLU:HB3	2:Z:1004:LYS:NZ	2.17	0.59
1:b:777:LEU:O	2:c:916:LYS:HE2	2.01	0.59
1:b:902:ALA:HA	2:c:912:THR:HG21	1.83	0.59
1:e:725:ARG:NH1	1:k:819:ASN:CB	2.65	0.59
1:e:867:LEU:HD12	1:h:851:ILE:HD12	1.83	0.59
2:f:928:TYR:HB3	3:g:1053:VAL:HG21	1.83	0.59
1:h:721:LEU:O	1:n:789:GLY:HA2	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:736:ASN:CB	1:k:739:LEU:HG	2.26	0.59
2:l:939:ILE:HD13	2:o:969:ALA:HB1	1.84	0.59
2:l:965:TYR:HB3	2:l:974:THR:O	2.02	0.59
1:n:808:ARG:HG2	1:n:819:ASN:CA	2.32	0.59
2:o:965:TYR:HB3	2:o:974:THR:O	2.02	0.59
2:B:930:MET:HE1	3:C:1053:VAL:HG13	1.82	0.59
2:B:965:TYR:HB3	2:B:974:THR:O	2.02	0.59
2:B:980:VAL:CG1	2:B:988:ILE:HG12	2.29	0.59
1:D:819:ASN:CB	1:n:725:ARG:NH1	2.65	0.59
1:J:747:ILE:HG22	1:J:749:CYS:SG	2.42	0.59
1:M:760:PRO:HB3	1:M:792:THR:O	2.01	0.59
2:N:912:THR:HG22	2:N:1029:VAL:HG22	1.82	0.59
1:P:779:ARG:HB2	2:Q:1025:ALA:CA	2.31	0.59
1:S:734:MET:SD	1:V:815:GLY:HA2	2.42	0.59
1:S:753:THR:HG22	1:S:754:GLU:N	2.16	0.59
1:S:891:ARG:NH1	1:S:891:ARG:HB3	2.08	0.59
1:S:891:ARG:HH11	1:S:891:ARG:CB	2.06	0.59
1:V:747:ILE:HG22	1:V:749:CYS:SG	2.42	0.59
1:V:753:THR:HG22	1:V:754:GLU:N	2.16	0.59
1:Y:760:PRO:HB3	1:Y:792:THR:O	2.02	0.59
1:b:734:MET:SD	1:e:815:GLY:HA2	2.42	0.59
1:h:747:ILE:HG22	1:h:749:CYS:SG	2.42	0.59
1:A:844:ARG:CG	1:A:873:ILE:HG12	2.33	0.59
1:A:891:ARG:HH12	1:n:726:LEU:CD1	2.14	0.59
1:D:808:ARG:HG2	1:D:819:ASN:CA	2.32	0.59
2:E:939:ILE:HD13	2:H:969:ALA:HB1	1.84	0.59
1:J:725:ARG:NH1	1:P:819:ASN:CB	2.65	0.59
1:J:844:ARG:CG	1:J:873:ILE:HG12	2.33	0.59
1:M:766:ARG:HD2	1:M:784:GLY:HA2	1.85	0.59
2:Q:928:TYR:HB3	3:R:1053:VAL:HG21	1.83	0.59
1:S:747:ILE:HG22	1:S:749:CYS:SG	2.42	0.59
2:W:980:VAL:CG1	2:W:988:ILE:HG12	2.29	0.59
1:Y:747:ILE:HG22	1:Y:749:CYS:SG	2.42	0.59
1:b:736:ASN:CB	1:b:739:LEU:HG	2.26	0.59
1:b:808:ARG:HG2	1:b:819:ASN:CA	2.32	0.59
1:b:867:LEU:HD13	1:e:862:LEU:HD11	1.84	0.59
1:h:867:LEU:HD12	1:k:851:ILE:HD12	1.83	0.59
1:n:901:LEU:CD1	2:o:909:LYS:HA	2.27	0.59
1:A:721:LEU:O	1:G:789:GLY:HA2	2.00	0.59
1:A:777:LEU:O	2:B:916:LYS:HE2	2.01	0.59
2:B:935:GLU:HB3	2:B:1004:LYS:NZ	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:734:MET:SD	1:G:815:GLY:HA2	2.42	0.59
1:D:756:ASP:OD1	1:D:878:TYR:HD1	1.86	0.59
1:G:734:MET:SD	1:J:815:GLY:HA2	2.42	0.59
1:G:756:ASP:OD1	1:G:878:TYR:HD1	1.86	0.59
1:G:867:LEU:HD12	1:J:851:ILE:HD12	1.83	0.59
1:J:901:LEU:CD1	2:K:909:LYS:HA	2.27	0.59
2:K:930:MET:HE1	3:L:1053:VAL:HG13	1.81	0.59
1:P:756:ASP:OD1	1:P:878:TYR:HD1	1.86	0.59
1:S:725:ARG:NH1	1:Y:819:ASN:CB	2.65	0.59
2:T:928:TYR:HB3	3:U:1053:VAL:HG21	1.83	0.59
1:V:760:PRO:HB3	1:V:792:THR:O	2.01	0.59
2:W:928:TYR:HB3	3:X:1053:VAL:HG21	1.83	0.59
1:Y:867:LEU:HD13	1:b:862:LEU:HD11	1.84	0.59
1:e:720:ASN:H	1:k:805:LEU:HD21	1.67	0.59
1:e:734:MET:SD	1:h:815:GLY:HA2	2.42	0.59
1:h:766:ARG:HD2	1:h:784:GLY:HA2	1.85	0.59
1:h:867:LEU:HD13	1:k:862:LEU:HD11	1.84	0.59
1:k:734:MET:SD	1:n:815:GLY:HA2	2.42	0.59
1:n:766:ARG:HD2	1:n:784:GLY:HA2	1.85	0.59
1:A:725:ARG:NH1	1:G:819:ASN:CB	2.65	0.59
1:D:808:ARG:CG	1:D:819:ASN:HA	2.31	0.59
2:E:965:TYR:HB3	2:E:974:THR:O	2.02	0.59
1:J:756:ASP:OD1	1:J:878:TYR:HD1	1.86	0.59
2:K:928:TYR:HB3	3:L:1053:VAL:HG21	1.83	0.59
1:M:863:ALA:CB	1:P:862:LEU:HD22	2.23	0.59
1:P:726:LEU:CD1	1:S:891:ARG:HH12	2.14	0.59
1:V:756:ASP:OD1	1:V:878:TYR:HD1	1.86	0.59
2:W:930:MET:HE1	3:X:1053:VAL:HG13	1.82	0.59
1:Y:808:ARG:HG2	1:Y:819:ASN:CA	2.32	0.59
2:Z:984:ASN:HB2	3:a:1061:THR:HG21	1.83	0.59
1:b:725:ARG:NH1	1:h:819:ASN:CB	2.65	0.59
1:b:726:LEU:CD2	1:e:891:ARG:HH12	2.16	0.59
2:f:980:VAL:CG1	2:f:988:ILE:HG12	2.29	0.59
1:h:745:LYS:CD	1:h:771:VAL:HG13	2.28	0.59
1:h:901:LEU:CD1	2:i:912:THR:HB	2.32	0.59
2:i:939:ILE:HD13	2:l:969:ALA:HB1	1.84	0.59
1:k:901:LEU:CD1	2:l:912:THR:HB	2.32	0.59
1:n:901:LEU:CD1	2:o:912:THR:HB	2.32	0.59
2:E:984:ASN:HB2	3:F:1061:THR:HG21	1.83	0.59
1:G:808:ARG:HG2	1:G:819:ASN:CA	2.32	0.59
2:H:929:VAL:HG22	2:H:1009:ARG:CG	2.23	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:935:GLU:HB3	2:H:1004:LYS:NZ	2.17	0.59
2:K:920:PHE:CE2	2:K:952:ARG:HG3	2.38	0.59
2:N:920:PHE:CE2	2:N:952:ARG:HG3	2.38	0.59
1:P:760:PRO:HB3	1:P:792:THR:O	2.01	0.59
1:Y:777:LEU:O	2:Z:916:LYS:HE2	2.01	0.59
1:b:808:ARG:CG	1:b:819:ASN:HA	2.31	0.59
1:e:901:LEU:CD1	2:f:912:THR:HB	2.32	0.59
2:i:965:TYR:HB3	2:i:974:THR:O	2.02	0.59
1:k:891:ARG:NH1	1:k:891:ARG:HB3	2.08	0.59
1:A:805:LEU:HD21	1:k:720:ASN:H	1.67	0.59
1:A:819:ASN:CB	1:k:725:ARG:NH1	2.65	0.59
1:A:867:LEU:HD13	1:D:862:LEU:HD11	1.84	0.59
1:A:901:LEU:CD1	2:B:912:THR:HB	2.32	0.59
1:D:721:LEU:HD23	1:J:805:LEU:HB2	1.69	0.59
1:G:766:ARG:HD2	1:G:784:GLY:HA2	1.85	0.59
2:H:920:PHE:CE2	2:H:952:ARG:HG3	2.38	0.59
2:N:928:TYR:HB3	3:O:1053:VAL:HG21	1.83	0.59
2:Q:920:PHE:CE2	2:Q:952:ARG:HG3	2.38	0.59
1:S:766:ARG:HD2	1:S:784:GLY:HA2	1.85	0.59
2:T:920:PHE:CE2	2:T:952:ARG:HG3	2.38	0.59
1:b:747:ILE:HG22	1:b:749:CYS:SG	2.42	0.59
1:b:901:LEU:CD1	2:c:912:THR:HB	2.32	0.59
1:h:725:ARG:NH1	1:n:819:ASN:CB	2.65	0.59
1:A:721:LEU:HD23	1:G:805:LEU:HB2	1.70	0.59
1:A:756:ASP:OD1	1:A:878:TYR:HD1	1.86	0.59
1:G:726:LEU:CD1	1:J:891:ARG:HH12	2.14	0.59
2:H:939:ILE:HD13	2:K:969:ALA:HB1	1.84	0.59
1:J:808:ARG:HG2	1:J:819:ASN:CA	2.32	0.59
1:M:725:ARG:NH1	1:S:819:ASN:CB	2.65	0.59
1:M:747:ILE:HG22	1:M:749:CYS:SG	2.42	0.59
1:P:725:ARG:NH1	1:V:819:ASN:CB	2.65	0.59
1:V:734:MET:SD	1:Y:815:GLY:HA2	2.42	0.59
1:V:779:ARG:HB2	2:W:1025:ALA:CA	2.31	0.59
1:V:808:ARG:HG2	1:V:819:ASN:CA	2.32	0.59
1:Y:734:MET:SD	1:b:815:GLY:HA2	2.42	0.59
1:Y:901:LEU:CD1	2:Z:912:THR:HB	2.32	0.59
2:Z:928:TYR:HB3	3:a:1053:VAL:HG21	1.83	0.59
2:c:912:THR:HG22	2:c:1029:VAL:HG22	1.82	0.59
2:f:965:TYR:HB3	2:f:974:THR:O	2.02	0.59
1:n:777:LEU:HB3	2:o:916:LYS:HZ3	1.67	0.59
1:D:867:LEU:HD12	1:G:851:ILE:HD12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:920:PHE:CE2	2:E:952:ARG:HG3	2.38	0.59
1:M:808:ARG:HG2	1:M:819:ASN:CA	2.32	0.59
2:N:965:TYR:HB3	2:N:974:THR:O	2.02	0.59
1:P:747:ILE:HG22	1:P:749:CYS:SG	2.42	0.59
1:P:766:ARG:HD2	1:P:784:GLY:HA2	1.85	0.59
1:S:726:LEU:CD2	1:V:891:ARG:HH12	2.16	0.59
1:V:766:ARG:HD2	1:V:784:GLY:HA2	1.85	0.59
2:W:920:PHE:CE2	2:W:952:ARG:HG3	2.38	0.59
1:b:766:ARG:HD2	1:b:784:GLY:HA2	1.85	0.59
1:D:805:LEU:HB2	1:n:721:LEU:HD23	1.69	0.58
1:D:844:ARG:CG	1:D:873:ILE:HG12	2.33	0.58
1:D:901:LEU:CD1	2:E:912:THR:HB	2.32	0.58
1:G:867:LEU:HD13	1:J:862:LEU:HD11	1.84	0.58
1:M:726:LEU:CD1	1:P:891:ARG:HH12	2.14	0.58
2:N:929:VAL:CG2	2:N:1009:ARG:HG2	2.23	0.58
2:T:939:ILE:HD13	2:W:969:ALA:HB1	1.84	0.58
1:V:901:LEU:CD1	2:W:912:THR:HB	2.32	0.58
2:Z:920:PHE:CE2	2:Z:952:ARG:HG3	2.38	0.58
1:b:756:ASP:OD1	1:b:878:TYR:HD1	1.86	0.58
1:e:747:ILE:HG22	1:e:749:CYS:SG	2.42	0.58
1:h:734:MET:SD	1:k:815:GLY:HA2	2.42	0.58
1:k:726:LEU:CD2	1:n:891:ARG:HH12	2.16	0.58
1:k:844:ARG:CG	1:k:873:ILE:HG12	2.33	0.58
1:A:726:LEU:CD1	1:D:891:ARG:HH12	2.14	0.58
1:A:867:LEU:HD12	1:D:851:ILE:HD12	1.83	0.58
1:A:901:LEU:CD1	2:B:909:LYS:HA	2.27	0.58
1:D:766:ARG:HD2	1:D:784:GLY:HA2	1.85	0.58
1:J:835:GLY:HA3	1:J:877:LEU:HD21	1.85	0.58
1:M:756:ASP:OD1	1:M:878:TYR:HD1	1.86	0.58
1:M:867:LEU:HD13	1:P:862:LEU:HD11	1.84	0.58
1:P:808:ARG:HG2	1:P:819:ASN:CA	2.32	0.58
1:S:779:ARG:HB2	2:T:1025:ALA:CA	2.31	0.58
1:S:808:ARG:HG2	1:S:819:ASN:CA	2.32	0.58
1:S:844:ARG:CG	1:S:873:ILE:HG12	2.33	0.58
1:V:867:LEU:HD13	1:Y:862:LEU:HD11	1.84	0.58
2:W:939:ILE:HD13	2:Z:969:ALA:HB1	1.84	0.58
2:W:965:TYR:HB3	2:W:974:THR:O	2.02	0.58
1:Y:726:LEU:CD1	1:b:891:ARG:HH12	2.14	0.58
1:Y:772:TYR:CE2	1:Y:779:ARG:HG3	2.39	0.58
2:c:928:TYR:HB3	3:d:1053:VAL:HG21	1.83	0.58
1:e:726:LEU:CD2	1:h:891:ARG:HH12	2.16	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:766:ARG:HD2	1:e:784:GLY:HA2	1.85	0.58
1:e:867:LEU:HD13	1:h:862:LEU:HD11	1.84	0.58
1:h:772:TYR:CE2	1:h:779:ARG:HG3	2.39	0.58
1:h:891:ARG:HH11	1:h:891:ARG:CB	2.06	0.58
1:k:867:LEU:HD12	1:n:851:ILE:HD12	1.83	0.58
1:A:772:TYR:CE2	1:A:779:ARG:HG3	2.39	0.58
2:E:980:VAL:CG1	2:E:988:ILE:HG12	2.29	0.58
1:G:901:LEU:CD1	2:H:909:LYS:HA	2.27	0.58
1:J:736:ASN:CB	1:J:739:LEU:HG	2.26	0.58
1:J:772:TYR:CE2	1:J:779:ARG:HG3	2.39	0.58
1:M:835:GLY:HA3	1:M:877:LEU:HD21	1.85	0.58
1:M:844:ARG:CG	1:M:873:ILE:HG12	2.33	0.58
1:P:772:TYR:CE2	1:P:779:ARG:HG3	2.39	0.58
1:S:720:ASN:H	1:Y:805:LEU:HD21	1.67	0.58
1:S:867:LEU:HD13	1:V:862:LEU:HD11	1.84	0.58
1:S:901:LEU:CD1	2:T:912:THR:HB	2.32	0.58
1:Y:726:LEU:CD2	1:b:891:ARG:HH12	2.16	0.58
1:Y:766:ARG:HD2	1:Y:784:GLY:HA2	1.85	0.58
2:c:920:PHE:CE2	2:c:952:ARG:HG3	2.38	0.58
2:c:965:TYR:HB3	2:c:974:THR:O	2.02	0.58
2:f:939:ILE:HD13	2:i:969:ALA:HB1	1.84	0.58
1:n:756:ASP:OD1	1:n:878:TYR:HD1	1.86	0.58
1:A:851:ILE:HD12	1:n:867:LEU:HD12	1.83	0.58
2:B:920:PHE:CE2	2:B:952:ARG:HG3	2.38	0.58
1:D:726:LEU:CD1	1:G:891:ARG:HH12	2.14	0.58
1:G:901:LEU:CD1	2:H:912:THR:HB	2.32	0.58
1:J:726:LEU:CD1	1:M:891:ARG:HH12	2.14	0.58
1:J:867:LEU:HD13	1:M:862:LEU:HD11	1.84	0.58
2:K:965:TYR:HB3	2:K:974:THR:O	2.02	0.58
1:P:835:GLY:HA3	1:P:877:LEU:HD21	1.86	0.58
2:Q:939:ILE:HD13	2:T:969:ALA:HB1	1.84	0.58
1:e:745:LYS:CD	1:e:771:VAL:HG13	2.28	0.58
1:e:808:ARG:CG	1:e:819:ASN:HA	2.31	0.58
2:i:935:GLU:HB3	2:i:1004:LYS:NZ	2.17	0.58
1:n:818:VAL:HG13	1:n:820:ILE:HG23	1.86	0.58
1:D:772:TYR:CE2	1:D:779:ARG:HG3	2.39	0.58
1:D:901:LEU:CD1	2:E:909:LYS:HA	2.27	0.58
1:J:721:LEU:O	1:J:723:PRO:HD3	2.04	0.58
2:K:939:ILE:HD13	2:N:969:ALA:HB1	1.84	0.58
1:M:736:ASN:CB	1:M:739:LEU:HG	2.26	0.58
1:S:721:LEU:O	1:S:723:PRO:HD3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:835:GLY:HA3	1:S:877:LEU:HD21	1.85	0.58
1:b:818:VAL:HG13	1:b:820:ILE:HG23	1.86	0.58
1:b:885:VAL:HG22	1:b:886:SER:N	2.17	0.58
1:e:818:VAL:HG13	1:e:820:ILE:HG23	1.86	0.58
1:h:756:ASP:OD1	1:h:878:TYR:HD1	1.86	0.58
1:k:766:ARG:HD2	1:k:784:GLY:HA2	1.85	0.58
1:k:818:VAL:HG13	1:k:820:ILE:HG23	1.86	0.58
1:A:891:ARG:HH12	1:n:726:LEU:CD2	2.16	0.58
1:D:805:LEU:HD21	1:n:720:ASN:H	1.67	0.58
1:D:867:LEU:HD13	1:G:862:LEU:HD11	1.84	0.58
1:G:721:LEU:HD23	1:M:805:LEU:HB2	1.70	0.58
2:H:984:ASN:HB2	3:I:1061:THR:HG21	1.83	0.58
1:J:901:LEU:CD1	2:K:912:THR:HB	2.32	0.58
1:P:778:VAL:CG1	1:P:780:LEU:HD21	2.34	0.58
1:P:901:LEU:CD1	2:Q:912:THR:HB	2.32	0.58
2:Q:965:TYR:HB3	2:Q:974:THR:O	2.02	0.58
1:S:772:TYR:CE2	1:S:779:ARG:HG3	2.39	0.58
1:V:726:LEU:CD2	1:Y:891:ARG:HH12	2.16	0.58
1:V:736:ASN:CB	1:V:739:LEU:HG	2.26	0.58
1:V:891:ARG:NH1	1:V:891:ARG:HB3	2.08	0.58
2:Z:965:TYR:HB3	2:Z:974:THR:O	2.02	0.58
2:c:939:ILE:HD13	2:f:969:ALA:HB1	1.84	0.58
1:h:726:LEU:CD2	1:k:891:ARG:HH12	2.16	0.58
1:k:756:ASP:OD1	1:k:878:TYR:HD1	1.86	0.58
1:n:778:VAL:CG1	1:n:780:LEU:HD21	2.34	0.58
1:A:766:ARG:HD2	1:A:784:GLY:HA2	1.85	0.58
1:A:778:VAL:CG1	1:A:780:LEU:HD21	2.34	0.58
1:A:818:VAL:HG13	1:A:820:ILE:HG23	1.86	0.58
2:K:929:VAL:HG22	2:K:1009:ARG:CG	2.23	0.58
1:M:901:LEU:CD1	2:N:912:THR:HB	2.32	0.58
1:P:726:LEU:CD2	1:S:891:ARG:HH12	2.16	0.58
1:S:756:ASP:OD1	1:S:878:TYR:HD1	1.86	0.58
1:S:778:VAL:CG1	1:S:780:LEU:HD21	2.34	0.58
1:S:802:VAL:H	1:S:877:LEU:HD22	1.69	0.58
1:V:835:GLY:HA3	1:V:877:LEU:HD21	1.85	0.58
2:W:984:ASN:HB2	3:X:1061:THR:HG21	1.83	0.58
1:Y:756:ASP:OD1	1:Y:878:TYR:HD1	1.86	0.58
2:Z:939:ILE:HD13	2:c:969:ALA:HB1	1.84	0.58
1:e:772:TYR:CE2	1:e:779:ARG:HG3	2.39	0.58
1:e:778:VAL:CG1	1:e:780:LEU:HD21	2.34	0.58
2:f:920:PHE:CE2	2:f:952:ARG:HG3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:818:VAL:HG13	1:h:820:ILE:HG23	1.86	0.58
1:n:885:VAL:HG22	1:n:886:SER:N	2.17	0.58
2:o:920:PHE:CE2	2:o:952:ARG:HG3	2.38	0.58
1:A:721:LEU:O	1:A:723:PRO:HD3	2.04	0.58
1:D:721:LEU:O	1:D:723:PRO:HD3	2.04	0.58
1:D:805:LEU:HB2	1:n:721:LEU:CD2	2.30	0.58
1:D:818:VAL:HG13	1:D:820:ILE:HG23	1.86	0.58
1:J:726:LEU:CD2	1:M:891:ARG:HH12	2.16	0.58
2:K:967:ILE:O	2:K:967:ILE:HG22	2.04	0.58
2:Q:932:GLU:HG3	3:R:1051:VAL:HG23	1.85	0.58
2:T:932:GLU:HG3	3:U:1051:VAL:HG23	1.85	0.58
2:T:965:TYR:HB3	2:T:974:THR:O	2.02	0.58
1:V:802:VAL:H	1:V:877:LEU:HD22	1.69	0.58
1:Y:777:LEU:HB3	2:Z:916:LYS:HZ3	1.69	0.58
1:b:778:VAL:CG1	1:b:780:LEU:HD21	2.34	0.58
1:e:756:ASP:OD1	1:e:878:TYR:HD1	1.86	0.58
1:A:736:ASN:CB	1:A:739:LEU:HG	2.26	0.58
1:D:720:ASN:H	1:J:805:LEU:HD21	1.67	0.58
1:D:835:GLY:HA3	1:D:877:LEU:HD21	1.85	0.58
2:E:954:GLU:HA	2:E:987:ILE:CG1	2.19	0.58
1:G:835:GLY:HA3	1:G:877:LEU:HD21	1.85	0.58
1:M:726:LEU:CD2	1:P:891:ARG:HH12	2.16	0.58
2:N:939:ILE:HD13	2:Q:969:ALA:HB1	1.84	0.58
1:V:818:VAL:HG13	1:V:820:ILE:HG23	1.86	0.58
1:Y:829:GLY:HA3	1:b:753:THR:HG23	1.85	0.58
1:Y:844:ARG:CG	1:Y:873:ILE:HG12	2.33	0.58
1:e:844:ARG:CG	1:e:873:ILE:HG12	2.33	0.58
1:h:778:VAL:CG1	1:h:780:LEU:HD21	2.34	0.58
1:h:891:ARG:NH1	1:h:891:ARG:HB3	2.08	0.58
2:i:954:GLU:HA	2:i:987:ILE:CG1	2.19	0.58
1:k:868:ARG:HH11	1:k:868:ARG:HG3	1.69	0.58
1:D:726:LEU:CD2	1:G:891:ARG:HH12	2.16	0.58
1:G:726:LEU:CD2	1:J:891:ARG:HH12	2.16	0.58
1:G:818:VAL:HG13	1:G:820:ILE:HG23	1.86	0.58
1:G:868:ARG:HH11	1:G:868:ARG:HG3	1.69	0.58
2:H:967:ILE:O	2:H:967:ILE:HG22	2.04	0.58
2:N:967:ILE:O	2:N:967:ILE:HG22	2.04	0.58
1:P:863:ALA:CB	1:S:862:LEU:HD22	2.23	0.58
1:P:867:LEU:HD13	1:S:862:LEU:HD11	1.84	0.58
1:V:721:LEU:CD2	1:b:805:LEU:HB2	2.30	0.58
2:W:929:VAL:CG2	2:W:1009:ARG:HG2	2.23	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:932:GLU:HG3	3:X:1051:VAL:HG23	1.85	0.58
1:Y:721:LEU:O	1:Y:723:PRO:HD3	2.04	0.58
1:Y:778:VAL:CG1	1:Y:780:LEU:HD21	2.34	0.58
1:b:802:VAL:H	1:b:877:LEU:HD22	1.69	0.58
1:e:802:VAL:H	1:e:877:LEU:HD22	1.69	0.58
1:k:772:TYR:CE2	1:k:779:ARG:HG3	2.39	0.58
1:k:778:VAL:CG1	1:k:780:LEU:HD21	2.34	0.58
1:A:720:ASN:H	1:G:805:LEU:HD21	1.67	0.57
1:D:891:ARG:HH11	1:D:891:ARG:CB	2.06	0.57
1:G:772:TYR:CE2	1:G:779:ARG:HG3	2.39	0.57
2:N:932:GLU:HG3	3:O:1051:VAL:HG23	1.85	0.57
1:P:721:LEU:O	1:P:723:PRO:HD3	2.04	0.57
1:V:772:TYR:CE2	1:V:779:ARG:HG3	2.39	0.57
1:V:778:VAL:CG1	1:V:780:LEU:HD21	2.34	0.57
1:Y:818:VAL:HG13	1:Y:820:ILE:HG23	1.86	0.57
1:b:772:TYR:CE2	1:b:779:ARG:HG3	2.39	0.57
1:h:868:ARG:HH11	1:h:868:ARG:HG3	1.69	0.57
1:n:736:ASN:CB	1:n:739:LEU:HG	2.26	0.57
1:J:766:ARG:HD2	1:J:784:GLY:HA2	1.85	0.57
1:M:778:VAL:CG1	1:M:780:LEU:HD21	2.34	0.57
1:V:868:ARG:HG3	1:V:868:ARG:HH11	1.69	0.57
1:Y:835:GLY:HA3	1:Y:877:LEU:HD21	1.85	0.57
2:Z:950:PHE:CE1	2:Z:991:GLU:HB3	2.40	0.57
1:b:829:GLY:HA3	1:e:753:THR:HG23	1.85	0.57
2:i:920:PHE:CE2	2:i:952:ARG:HG3	2.38	0.57
2:l:920:PHE:CE2	2:l:952:ARG:HG3	2.38	0.57
2:l:980:VAL:CG1	2:l:988:ILE:HG12	2.29	0.57
1:A:726:LEU:CD2	1:D:891:ARG:HH12	2.16	0.57
1:J:802:VAL:H	1:J:877:LEU:HD22	1.69	0.57
1:M:802:VAL:H	1:M:877:LEU:HD22	1.69	0.57
2:Z:932:GLU:HG3	3:a:1051:VAL:HG23	1.85	0.57
2:c:950:PHE:CE1	2:c:991:GLU:HB3	2.40	0.57
1:h:720:ASN:H	1:n:805:LEU:HD21	1.67	0.57
1:h:808:ARG:CG	1:h:819:ASN:HA	2.31	0.57
2:i:980:VAL:CG1	2:i:988:ILE:HG12	2.29	0.57
1:D:778:VAL:CG1	1:D:780:LEU:HD21	2.34	0.57
2:E:967:ILE:O	2:E:967:ILE:HG22	2.04	0.57
2:H:980:VAL:CG1	2:H:988:ILE:HG12	2.29	0.57
1:J:721:LEU:HD23	1:P:805:LEU:HB2	1.70	0.57
1:J:868:ARG:HH11	1:J:868:ARG:HG3	1.69	0.57
1:M:772:TYR:CE2	1:M:779:ARG:HG3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:885:VAL:HG22	1:P:886:SER:N	2.17	0.57
2:W:950:PHE:CE1	2:W:991:GLU:HB3	2.40	0.57
1:Y:868:ARG:HG3	1:Y:868:ARG:HH11	1.69	0.57
2:Z:967:ILE:O	2:Z:967:ILE:HG22	2.04	0.57
2:Z:980:VAL:CG1	2:Z:988:ILE:HG12	2.29	0.57
1:b:721:LEU:O	1:b:723:PRO:HD3	2.04	0.57
1:e:777:LEU:HB3	2:f:916:LYS:HZ3	1.69	0.57
1:h:835:GLY:HA3	1:h:877:LEU:HD21	1.85	0.57
2:i:967:ILE:HG22	2:i:967:ILE:O	2.04	0.57
1:k:726:LEU:CD1	1:n:891:ARG:HH12	2.14	0.57
1:n:757:THR:HG22	1:n:791:ILE:CD1	2.26	0.57
1:n:772:TYR:CE2	1:n:779:ARG:HG3	2.39	0.57
1:D:868:ARG:HH11	1:D:868:ARG:HG3	1.69	0.57
1:J:818:VAL:HG13	1:J:820:ILE:HG23	1.86	0.57
2:K:932:GLU:HG3	3:L:1051:VAL:HG23	1.85	0.57
1:M:721:LEU:O	1:M:723:PRO:HD3	2.04	0.57
1:M:839:ALA:O	1:M:840:HIS:HB2	2.05	0.57
1:P:818:VAL:HG13	1:P:820:ILE:HG23	1.86	0.57
2:Q:967:ILE:HG22	2:Q:967:ILE:O	2.04	0.57
1:Y:891:ARG:NH1	1:Y:891:ARG:HB3	2.08	0.57
1:b:868:ARG:HH11	1:b:868:ARG:HG3	1.69	0.57
2:f:932:GLU:HG3	3:g:1051:VAL:HG23	1.85	0.57
1:k:757:THR:HG22	1:k:791:ILE:CD1	2.26	0.57
1:A:835:GLY:HA3	1:A:877:LEU:HD21	1.85	0.57
2:H:950:PHE:CE1	2:H:991:GLU:HB3	2.40	0.57
2:Q:930:MET:HE1	3:R:1053:VAL:HG13	1.81	0.57
1:S:818:VAL:HG13	1:S:820:ILE:HG23	1.86	0.57
2:T:950:PHE:CE1	2:T:991:GLU:HB3	2.39	0.57
1:V:839:ALA:O	1:V:840:HIS:HB2	2.05	0.57
1:b:745:LYS:CD	1:b:771:VAL:HG13	2.28	0.57
1:b:839:ALA:O	1:b:840:HIS:HB2	2.05	0.57
2:c:932:GLU:HG3	3:d:1051:VAL:HG23	1.85	0.57
1:k:721:LEU:O	1:k:723:PRO:HD3	2.04	0.57
1:k:802:VAL:H	1:k:877:LEU:HD22	1.69	0.57
1:k:839:ALA:O	1:k:840:HIS:HB2	2.05	0.57
1:n:868:ARG:HH11	1:n:868:ARG:HG3	1.69	0.57
1:G:720:ASN:H	1:M:805:LEU:HD21	1.67	0.57
2:H:932:GLU:HG3	3:I:1051:VAL:HG23	1.85	0.57
2:K:950:PHE:CE1	2:K:991:GLU:HB3	2.39	0.57
1:M:818:VAL:HG13	1:M:820:ILE:HG23	1.86	0.57
1:P:842:TRP:CE2	1:P:846:ARG:HB3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:842:TRP:CE2	1:S:846:ARG:HB3	2.40	0.57
1:V:842:TRP:CE2	1:V:846:ARG:HB3	2.40	0.57
1:b:835:GLY:HA3	1:b:877:LEU:HD21	1.85	0.57
1:e:726:LEU:CD1	1:h:891:ARG:HH12	2.14	0.57
1:e:839:ALA:O	1:e:840:HIS:HB2	2.05	0.57
1:e:868:ARG:HH11	1:e:868:ARG:HG3	1.69	0.57
1:e:891:ARG:NH1	1:e:891:ARG:HB3	2.08	0.57
2:f:950:PHE:CE1	2:f:991:GLU:HB3	2.39	0.57
1:h:721:LEU:O	1:h:723:PRO:HD3	2.04	0.57
1:n:802:VAL:H	1:n:877:LEU:HD22	1.69	0.57
2:E:950:PHE:CE1	2:E:991:GLU:HB3	2.40	0.57
1:G:721:LEU:O	1:G:723:PRO:HD3	2.04	0.57
1:S:868:ARG:HH11	1:S:868:ARG:HG3	1.69	0.57
1:e:829:GLY:HA3	1:h:753:THR:HG23	1.85	0.57
2:i:998:ARG:HD2	2:i:1000:ARG:HH22	1.70	0.57
1:n:844:ARG:CG	1:n:873:ILE:HG12	2.33	0.57
1:D:775:ASP:OD1	1:D:777:LEU:HG	2.05	0.57
1:J:778:VAL:CG1	1:J:780:LEU:HD21	2.34	0.57
1:M:842:TRP:CE2	1:M:846:ARG:HB3	2.40	0.57
2:N:929:VAL:HG22	2:N:1009:ARG:CG	2.23	0.57
2:Q:950:PHE:CE1	2:Q:991:GLU:HB3	2.40	0.57
2:Z:998:ARG:HD2	2:Z:1000:ARG:HH22	1.70	0.57
1:b:891:ARG:NH1	1:b:891:ARG:HB3	2.08	0.57
1:h:775:ASP:OD1	1:h:777:LEU:HG	2.05	0.57
1:h:844:ARG:CG	1:h:873:ILE:HG12	2.33	0.57
2:i:932:GLU:HG3	3:j:1051:VAL:HG23	1.85	0.57
1:k:808:ARG:CG	1:k:819:ASN:HA	2.31	0.57
1:k:829:GLY:HA3	1:n:753:THR:HG23	1.85	0.57
1:A:753:THR:HG23	1:n:829:GLY:HA3	1.85	0.57
1:A:819:ASN:CG	1:k:725:ARG:NH1	2.63	0.57
2:B:932:GLU:HG3	3:C:1051:VAL:HG23	1.85	0.57
2:B:967:ILE:O	2:B:967:ILE:HG22	2.04	0.57
1:D:839:ALA:O	1:D:840:HIS:HB2	2.05	0.57
1:G:802:VAL:H	1:G:877:LEU:HD22	1.69	0.57
1:G:844:ARG:CG	1:G:873:ILE:HG12	2.33	0.57
1:J:720:ASN:H	1:P:805:LEU:HD21	1.67	0.57
2:N:950:PHE:CE1	2:N:991:GLU:HB3	2.40	0.57
1:S:839:ALA:O	1:S:840:HIS:HB2	2.05	0.57
1:Y:754:GLU:HG3	1:Y:881:GLN:OE1	2.05	0.57
1:Y:842:TRP:CE2	1:Y:846:ARG:HB3	2.40	0.57
1:h:829:GLY:HA3	1:k:753:THR:HG23	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:998:ARG:HD2	2:l:1000:ARG:HH22	1.70	0.57
2:o:950:PHE:CE1	2:o:991:GLU:HB3	2.39	0.57
1:A:872:SER:O	1:A:874:PRO:HD3	2.05	0.56
1:D:872:SER:O	1:D:874:PRO:HD3	2.05	0.56
1:G:778:VAL:CG1	1:G:780:LEU:HD21	2.34	0.56
1:J:842:TRP:CE2	1:J:846:ARG:HB3	2.40	0.56
2:T:967:ILE:HG22	2:T:967:ILE:O	2.04	0.56
1:V:844:ARG:CG	1:V:873:ILE:HG12	2.33	0.56
1:V:872:SER:O	1:V:874:PRO:HD3	2.05	0.56
1:Y:872:SER:O	1:Y:874:PRO:HD3	2.05	0.56
1:b:872:SER:O	1:b:874:PRO:HD3	2.05	0.56
1:e:754:GLU:HG3	1:e:881:GLN:OE1	2.05	0.56
1:e:872:SER:O	1:e:874:PRO:HD3	2.05	0.56
1:k:754:GLU:HG3	1:k:881:GLN:OE1	2.05	0.56
2:l:950:PHE:CE1	2:l:991:GLU:HB3	2.40	0.56
1:n:835:GLY:HA3	1:n:877:LEU:HD21	1.85	0.56
2:o:932:GLU:HG3	3:p:1051:VAL:HG23	1.85	0.56
1:A:721:LEU:CD2	1:G:823:ALA:HA	2.35	0.56
1:A:823:ALA:HA	1:k:721:LEU:CD2	2.35	0.56
2:E:932:GLU:HG3	3:F:1051:VAL:HG23	1.85	0.56
1:G:872:SER:O	1:G:874:PRO:HD3	2.05	0.56
1:J:725:ARG:NH1	1:P:819:ASN:CG	2.63	0.56
1:M:721:LEU:HD23	1:S:805:LEU:HB2	1.70	0.56
1:P:839:ALA:O	1:P:840:HIS:HB2	2.05	0.56
1:P:872:SER:O	1:P:874:PRO:HD3	2.05	0.56
1:S:757:THR:CG2	1:S:802:VAL:HG21	2.35	0.56
1:S:872:SER:O	1:S:874:PRO:HD3	2.05	0.56
1:V:721:LEU:O	1:V:723:PRO:HD3	2.04	0.56
1:Y:757:THR:CG2	1:Y:802:VAL:HG21	2.35	0.56
1:b:842:TRP:CE2	1:b:846:ARG:HB3	2.40	0.56
1:h:721:LEU:CD2	1:n:823:ALA:HA	2.35	0.56
1:h:725:ARG:NH1	1:n:819:ASN:CG	2.63	0.56
1:k:775:ASP:OD1	1:k:777:LEU:HG	2.05	0.56
1:k:872:SER:O	1:k:874:PRO:HD3	2.05	0.56
1:n:754:GLU:HG3	1:n:881:GLN:OE1	2.05	0.56
1:n:872:SER:O	1:n:874:PRO:HD3	2.05	0.56
1:A:721:LEU:HD13	1:G:822:SER:N	2.21	0.56
1:A:775:ASP:OD1	1:A:777:LEU:HG	2.05	0.56
1:A:802:VAL:H	1:A:877:LEU:HD22	1.69	0.56
1:A:829:GLY:HA3	1:D:753:THR:HG23	1.85	0.56
2:B:950:PHE:CE1	2:B:991:GLU:HB3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:998:ARG:HD2	2:B:1000:ARG:HH22	1.70	0.56
1:D:721:LEU:CD2	1:J:823:ALA:HA	2.35	0.56
1:D:823:ALA:HA	1:n:721:LEU:CD2	2.35	0.56
1:G:725:ARG:NH1	1:M:819:ASN:CG	2.63	0.56
1:G:743:LYS:HD3	1:G:891:ARG:CA	2.36	0.56
1:G:767:VAL:HG23	1:G:785:SER:HB2	1.88	0.56
1:G:839:ALA:O	1:G:840:HIS:HB2	2.05	0.56
1:G:842:TRP:CE2	1:G:846:ARG:HB3	2.40	0.56
1:J:721:LEU:HD13	1:P:822:SER:N	2.21	0.56
1:J:872:SER:O	1:J:874:PRO:HD3	2.05	0.56
2:K:928:TYR:HH	2:K:946:ASP:HB3	1.68	0.56
1:M:757:THR:CG2	1:M:802:VAL:HG21	2.35	0.56
1:M:809:ILE:HD11	1:M:820:ILE:CD1	2.35	0.56
1:M:872:SER:O	1:M:874:PRO:HD3	2.05	0.56
1:P:775:ASP:OD1	1:P:777:LEU:HG	2.05	0.56
1:P:802:VAL:H	1:P:877:LEU:HD22	1.69	0.56
1:P:844:ARG:CG	1:P:873:ILE:HG12	2.33	0.56
1:P:868:ARG:HH11	1:P:868:ARG:HG3	1.69	0.56
1:S:775:ASP:OD1	1:S:777:LEU:HG	2.05	0.56
1:V:720:ASN:H	1:b:805:LEU:HD21	1.67	0.56
1:Y:802:VAL:H	1:Y:877:LEU:HD22	1.69	0.56
1:Y:839:ALA:O	1:Y:840:HIS:HB2	2.05	0.56
1:e:721:LEU:CD2	1:k:823:ALA:HA	2.35	0.56
1:e:721:LEU:O	1:e:723:PRO:HD3	2.04	0.56
1:e:757:THR:CG2	1:e:802:VAL:HG21	2.35	0.56
1:e:767:VAL:HG23	1:e:785:SER:HB2	1.87	0.56
1:h:754:GLU:HG3	1:h:881:GLN:OE1	2.05	0.56
1:h:802:VAL:H	1:h:877:LEU:HD22	1.69	0.56
1:h:872:SER:O	1:h:874:PRO:HD3	2.05	0.56
2:i:950:PHE:CE1	2:i:991:GLU:HB3	2.40	0.56
1:k:885:VAL:HG22	1:k:886:SER:N	2.17	0.56
1:n:808:ARG:CG	1:n:819:ASN:HA	2.31	0.56
1:n:839:ALA:O	1:n:840:HIS:HB2	2.05	0.56
1:A:754:GLU:HG3	1:A:881:GLN:OE1	2.05	0.56
1:D:725:ARG:HH11	1:J:819:ASN:CB	2.19	0.56
1:G:721:LEU:CD2	1:M:823:ALA:HA	2.35	0.56
1:G:775:ASP:OD1	1:G:777:LEU:HG	2.05	0.56
1:J:743:LYS:HD3	1:J:891:ARG:CA	2.35	0.56
1:M:726:LEU:CB	1:P:891:ARG:NH1	2.51	0.56
1:M:868:ARG:HH11	1:M:868:ARG:HG3	1.69	0.56
1:V:725:ARG:NH1	1:b:819:ASN:CG	2.63	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:967:ILE:O	2:W:967:ILE:HG22	2.04	0.56
1:Y:885:VAL:HG22	1:Y:886:SER:N	2.16	0.56
1:b:726:LEU:HD22	1:e:891:ARG:HH12	1.71	0.56
1:e:726:LEU:HD22	1:h:891:ARG:HH12	1.71	0.56
1:e:835:GLY:HA3	1:e:877:LEU:HD21	1.85	0.56
2:f:967:ILE:O	2:f:967:ILE:HG22	2.04	0.56
1:h:839:ALA:O	1:h:840:HIS:HB2	2.05	0.56
1:k:835:GLY:HA3	1:k:877:LEU:HD21	1.86	0.56
1:A:822:SER:N	1:k:721:LEU:HD13	2.21	0.56
3:C:1051:VAL:HG13	3:C:1052:PRO:HD2	1.87	0.56
1:D:742:PRO:CG	1:D:774:ALA:HA	2.36	0.56
1:D:743:LYS:HD3	1:D:891:ARG:CA	2.36	0.56
1:J:839:ALA:O	1:J:840:HIS:HB2	2.05	0.56
1:M:725:ARG:NH1	1:S:819:ASN:CG	2.63	0.56
1:M:775:ASP:OD1	1:M:777:LEU:HG	2.05	0.56
1:S:725:ARG:NH1	1:Y:819:ASN:CG	2.63	0.56
1:S:726:LEU:HD22	1:V:891:ARG:HH12	1.71	0.56
1:V:775:ASP:OD1	1:V:777:LEU:HG	2.05	0.56
1:Y:721:LEU:CD2	1:e:823:ALA:HA	2.35	0.56
1:Y:725:ARG:HH11	1:e:819:ASN:CB	2.19	0.56
1:Y:726:LEU:HD22	1:b:891:ARG:HH12	1.71	0.56
1:b:721:LEU:CD2	1:h:823:ALA:HA	2.35	0.56
1:e:775:ASP:OD1	1:e:777:LEU:HG	2.05	0.56
2:f:998:ARG:HD2	2:f:1000:ARG:HH22	1.70	0.56
3:m:1051:VAL:HG13	3:m:1052:PRO:HD2	1.87	0.56
3:p:1051:VAL:HG13	3:p:1052:PRO:HD2	1.87	0.56
1:A:742:PRO:CG	1:A:774:ALA:HA	2.36	0.56
1:D:721:LEU:HD13	1:J:822:SER:N	2.21	0.56
1:G:721:LEU:HD13	1:M:822:SER:N	2.21	0.56
1:J:721:LEU:CD2	1:P:823:ALA:HA	2.35	0.56
1:J:767:VAL:HG23	1:J:785:SER:HB2	1.87	0.56
1:M:725:ARG:HH11	1:S:819:ASN:CB	2.19	0.56
1:P:809:ILE:HD11	1:P:820:ILE:CD1	2.35	0.56
1:S:754:GLU:HG3	1:S:881:GLN:OE1	2.05	0.56
1:S:901:LEU:HD11	2:T:909:LYS:O	2.06	0.56
1:V:725:ARG:HH11	1:b:819:ASN:CB	2.19	0.56
1:Y:742:PRO:CG	1:Y:774:ALA:HA	2.36	0.56
1:Y:743:LYS:HD3	1:Y:891:ARG:CA	2.36	0.56
1:Y:775:ASP:OD1	1:Y:777:LEU:HG	2.05	0.56
1:b:725:ARG:NH1	1:h:819:ASN:CG	2.63	0.56
1:b:757:THR:CG2	1:b:802:VAL:HG21	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:901:LEU:HD11	2:c:909:LYS:O	2.06	0.56
1:e:842:TRP:CE2	1:e:846:ARG:HB3	2.40	0.56
1:h:725:ARG:HH11	1:n:819:ASN:CB	2.19	0.56
1:n:721:LEU:O	1:n:723:PRO:HD3	2.04	0.56
1:A:767:VAL:HG23	1:A:785:SER:HB2	1.88	0.56
1:A:868:ARG:HH11	1:A:868:ARG:HG3	1.69	0.56
1:D:754:GLU:HG3	1:D:881:GLN:OE1	2.05	0.56
1:D:842:TRP:CE2	1:D:846:ARG:HB3	2.40	0.56
1:G:742:PRO:CG	1:G:774:ALA:HA	2.36	0.56
1:J:902:ALA:H	2:K:1030:ARG:HG2	1.71	0.56
2:K:980:VAL:CG1	2:K:988:ILE:HG12	2.29	0.56
1:M:885:VAL:HG22	1:M:886:SER:N	2.17	0.56
1:P:721:LEU:HD13	1:V:822:SER:N	2.21	0.56
1:P:726:LEU:HD22	1:S:891:ARG:HH12	1.71	0.56
1:P:757:THR:CG2	1:P:802:VAL:HG21	2.35	0.56
2:Q:965:TYR:HD1	2:Q:975:LEU:HA	1.71	0.56
2:T:965:TYR:HD1	2:T:975:LEU:HA	1.71	0.56
1:V:726:LEU:HD22	1:Y:891:ARG:HH12	1.71	0.56
1:Y:725:ARG:NH1	1:e:819:ASN:CG	2.63	0.56
1:Y:901:LEU:HD11	2:Z:909:LYS:O	2.06	0.56
1:h:901:LEU:HD11	2:i:909:LYS:O	2.06	0.56
2:i:953:PHE:O	2:i:987:ILE:HA	2.06	0.56
2:o:967:ILE:HG22	2:o:967:ILE:O	2.04	0.56
1:A:808:ARG:CG	1:A:819:ASN:HA	2.31	0.56
1:D:725:ARG:NH1	1:J:819:ASN:CG	2.63	0.56
1:D:802:VAL:H	1:D:877:LEU:HD22	1.69	0.56
1:D:819:ASN:CG	1:n:725:ARG:NH1	2.63	0.56
3:F:1051:VAL:HG13	3:F:1052:PRO:HD2	1.87	0.56
1:J:757:THR:CG2	1:J:802:VAL:HG21	2.35	0.56
1:M:721:LEU:CD2	1:S:823:ALA:HA	2.35	0.56
1:S:721:LEU:CD2	1:Y:805:LEU:HB2	2.30	0.56
1:S:902:ALA:H	2:T:1030:ARG:HG2	1.71	0.56
2:T:953:PHE:O	2:T:987:ILE:HA	2.06	0.56
1:V:742:PRO:CG	1:V:774:ALA:HA	2.36	0.56
1:V:757:THR:CG2	1:V:802:VAL:HG21	2.35	0.56
2:W:965:TYR:HD1	2:W:975:LEU:HA	1.71	0.56
1:b:742:PRO:CG	1:b:774:ALA:HA	2.36	0.56
1:b:844:ARG:CG	1:b:873:ILE:HG12	2.33	0.56
1:b:902:ALA:H	2:c:1030:ARG:HG2	1.71	0.56
1:k:767:VAL:HG23	1:k:785:SER:HB2	1.88	0.56
2:l:932:GLU:HG3	3:m:1051:VAL:HG23	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:953:PHE:O	2:l:987:ILE:HA	2.06	0.56
1:n:742:PRO:CG	1:n:774:ALA:HA	2.36	0.56
1:A:725:ARG:NH1	1:G:819:ASN:CG	2.63	0.56
1:A:784:GLY:O	1:A:812:ASP:HB2	2.06	0.56
1:A:839:ALA:O	1:A:840:HIS:HB2	2.05	0.56
2:B:953:PHE:O	2:B:987:ILE:HA	2.06	0.56
1:D:822:SER:N	1:n:721:LEU:HD13	2.21	0.56
1:G:725:ARG:HH11	1:M:819:ASN:CB	2.19	0.56
2:N:965:TYR:HD1	2:N:975:LEU:HA	1.71	0.56
1:P:725:ARG:HH11	1:V:819:ASN:CB	2.19	0.56
1:P:743:LYS:HD3	1:P:891:ARG:CA	2.36	0.56
1:S:823:ALA:O	1:S:887:ILE:HG23	2.06	0.56
1:Y:784:GLY:O	1:Y:812:ASP:HB2	2.06	0.56
1:b:743:LYS:HD3	1:b:891:ARG:CA	2.36	0.56
1:b:754:GLU:HG3	1:b:881:GLN:OE1	2.05	0.56
1:e:901:LEU:HD11	2:f:909:LYS:O	2.06	0.56
1:e:902:ALA:H	2:f:1030:ARG:HG2	1.71	0.56
2:f:965:TYR:HD1	2:f:975:LEU:HA	1.71	0.56
1:h:726:LEU:HD22	1:k:891:ARG:HH12	1.71	0.56
1:h:767:VAL:HG23	1:h:785:SER:HB2	1.88	0.56
1:h:842:TRP:CE2	1:h:846:ARG:HB3	2.40	0.56
3:j:1051:VAL:HG13	3:j:1052:PRO:HD2	1.87	0.56
1:k:742:PRO:CG	1:k:774:ALA:HA	2.36	0.56
1:n:823:ALA:O	1:n:887:ILE:HG23	2.06	0.56
1:n:902:ALA:H	2:o:1030:ARG:HG2	1.71	0.56
2:o:953:PHE:O	2:o:987:ILE:HA	2.06	0.56
1:A:725:ARG:HH11	1:G:819:ASN:CB	2.19	0.56
1:A:819:ASN:CB	1:k:725:ARG:HH11	2.19	0.56
1:D:823:ALA:O	1:D:887:ILE:HG23	2.06	0.56
1:D:829:GLY:HA3	1:G:753:THR:HG23	1.85	0.56
2:E:953:PHE:O	2:E:987:ILE:HA	2.06	0.56
1:P:721:LEU:HD23	1:V:805:LEU:HB2	1.69	0.56
2:Q:953:PHE:O	2:Q:987:ILE:HA	2.06	0.56
1:S:743:LYS:HD3	1:S:891:ARG:CA	2.36	0.56
1:V:721:LEU:CD2	1:b:823:ALA:HA	2.35	0.56
1:V:743:LYS:HD3	1:V:891:ARG:CA	2.36	0.56
1:V:784:GLY:O	1:V:812:ASP:HB2	2.06	0.56
2:f:953:PHE:O	2:f:987:ILE:HA	2.06	0.56
1:h:742:PRO:CG	1:h:774:ALA:HA	2.36	0.56
1:k:823:ALA:O	1:k:887:ILE:HG23	2.06	0.56
1:k:842:TRP:CE2	1:k:846:ARG:HB3	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:753:THR:HG22	1:D:754:GLU:H	1.72	0.55
1:D:757:THR:CG2	1:D:802:VAL:HG21	2.35	0.55
1:D:784:GLY:O	1:D:812:ASP:HB2	2.06	0.55
1:D:864:SER:OG	1:G:861:GLN:O	2.25	0.55
1:G:754:GLU:HG3	1:G:881:GLN:OE1	2.05	0.55
1:J:742:PRO:CG	1:J:774:ALA:HA	2.36	0.55
1:J:775:ASP:OD1	1:J:777:LEU:HG	2.05	0.55
1:J:784:GLY:O	1:J:812:ASP:HB2	2.06	0.55
1:P:721:LEU:CD2	1:V:823:ALA:HA	2.35	0.55
1:P:725:ARG:NH1	1:V:819:ASN:CG	2.63	0.55
1:S:742:PRO:CG	1:S:774:ALA:HA	2.36	0.55
1:S:809:ILE:HD11	1:S:820:ILE:CD1	2.35	0.55
1:V:721:LEU:HD13	1:b:822:SER:N	2.21	0.55
1:V:823:ALA:O	1:V:887:ILE:HG23	2.06	0.55
1:V:901:LEU:HD11	2:W:909:LYS:O	2.06	0.55
2:Z:965:TYR:HD1	2:Z:975:LEU:HA	1.71	0.55
1:e:725:ARG:HH11	1:k:819:ASN:CB	2.19	0.55
1:e:742:PRO:CG	1:e:774:ALA:HA	2.36	0.55
1:A:805:LEU:C	1:k:721:LEU:CD2	2.75	0.55
1:A:842:TRP:CE2	1:A:846:ARG:HB3	2.40	0.55
1:G:753:THR:HG22	1:G:754:GLU:H	1.72	0.55
1:G:757:THR:CG2	1:G:802:VAL:HG21	2.35	0.55
1:G:784:GLY:O	1:G:812:ASP:HB2	2.06	0.55
1:G:902:ALA:H	2:H:1030:ARG:HG2	1.71	0.55
3:I:1051:VAL:HG13	3:I:1052:PRO:HD2	1.87	0.55
1:M:721:LEU:HD13	1:S:822:SER:N	2.21	0.55
1:P:727:LYS:HG2	1:P:728:ALA:O	2.07	0.55
1:S:721:LEU:CD2	1:Y:823:ALA:HA	2.35	0.55
1:S:828:LEU:O	1:V:753:THR:CG2	2.55	0.55
1:V:828:LEU:O	1:Y:753:THR:CG2	2.55	0.55
1:b:775:ASP:OD1	1:b:777:LEU:HG	2.05	0.55
2:c:965:TYR:HD1	2:c:975:LEU:HA	1.71	0.55
2:c:998:ARG:HD2	2:c:1000:ARG:HH22	1.70	0.55
1:k:757:THR:CG2	1:k:802:VAL:HG21	2.35	0.55
1:k:901:LEU:HD11	2:l:909:LYS:O	2.06	0.55
1:n:751:THR:O	1:n:882:GLY:HA2	2.07	0.55
1:n:775:ASP:OD1	1:n:777:LEU:HG	2.05	0.55
1:n:784:GLY:O	1:n:812:ASP:HB2	2.06	0.55
1:n:842:TRP:CE2	1:n:846:ARG:HB3	2.40	0.55
1:A:743:LYS:HD3	1:A:891:ARG:CA	2.36	0.55
1:A:805:LEU:HB2	1:k:721:LEU:CD2	2.30	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:767:VAL:HG23	1:D:785:SER:HB2	1.87	0.55
1:G:809:ILE:CD1	1:G:820:ILE:HG21	2.34	0.55
1:G:823:ALA:O	1:G:887:ILE:HG23	2.06	0.55
1:J:828:LEU:O	1:M:753:THR:CG2	2.55	0.55
1:M:721:LEU:CD2	1:S:805:LEU:HB2	2.30	0.55
1:M:743:LYS:HD3	1:M:891:ARG:CA	2.36	0.55
1:P:823:ALA:O	1:P:887:ILE:HG23	2.06	0.55
1:P:828:LEU:O	1:S:753:THR:CG2	2.55	0.55
2:Q:929:VAL:HG22	2:Q:1009:ARG:CG	2.23	0.55
1:V:751:THR:O	1:V:882:GLY:HA2	2.07	0.55
1:V:777:LEU:HB3	2:W:916:LYS:HZ3	1.71	0.55
2:W:953:PHE:O	2:W:987:ILE:HA	2.06	0.55
1:Y:736:ASN:CB	1:Y:739:LEU:HG	2.26	0.55
1:Y:823:ALA:O	1:Y:887:ILE:HG23	2.06	0.55
1:b:784:GLY:O	1:b:812:ASP:HB2	2.06	0.55
1:e:725:ARG:NH1	1:k:819:ASN:CG	2.63	0.55
1:e:743:LYS:HD3	1:e:891:ARG:CA	2.35	0.55
3:g:1051:VAL:HG13	3:g:1052:PRO:HD2	1.87	0.55
1:h:726:LEU:CD1	1:k:891:ARG:HH12	2.14	0.55
1:h:823:ALA:O	1:h:887:ILE:HG23	2.06	0.55
1:n:767:VAL:HG23	1:n:785:SER:HB2	1.88	0.55
1:A:757:THR:CG2	1:A:802:VAL:HG21	2.35	0.55
1:G:727:LYS:HG2	1:G:728:ALA:O	2.07	0.55
1:G:780:LEU:HD13	1:G:899:TYR:CD2	2.42	0.55
2:H:953:PHE:O	2:H:987:ILE:HA	2.06	0.55
2:H:998:ARG:C	2:H:999:ILE:HG13	2.32	0.55
2:K:965:TYR:HD1	2:K:975:LEU:HA	1.71	0.55
1:M:742:PRO:CG	1:M:774:ALA:HA	2.36	0.55
1:P:833:ILE:HG22	1:P:834:PRO:HD2	1.88	0.55
1:S:721:LEU:HD13	1:Y:822:SER:N	2.21	0.55
1:S:833:ILE:HG22	1:S:834:PRO:HD2	1.88	0.55
1:V:902:ALA:H	2:W:1030:ARG:HG2	1.71	0.55
1:Y:721:LEU:HD13	1:e:822:SER:N	2.21	0.55
1:Y:828:LEU:O	1:b:753:THR:CG2	2.55	0.55
1:Y:833:ILE:HG22	1:Y:834:PRO:HD2	1.88	0.55
2:c:953:PHE:O	2:c:987:ILE:HA	2.06	0.55
2:f:954:GLU:HA	2:f:987:ILE:CG1	2.19	0.55
1:k:902:ALA:H	2:l:1030:ARG:HG2	1.71	0.55
2:l:967:ILE:HG22	2:l:967:ILE:O	2.04	0.55
2:o:998:ARG:HD2	2:o:1000:ARG:HH22	1.70	0.55
1:A:823:ALA:O	1:A:887:ILE:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:861:GLN:O	1:n:864:SER:OG	2.25	0.55
1:A:868:ARG:NH1	1:A:868:ARG:HG3	2.22	0.55
2:B:966:MET:HB2	2:B:994:ALA:CB	2.37	0.55
1:D:726:LEU:HD22	1:G:891:ARG:HH12	1.71	0.55
1:D:780:LEU:HD13	1:D:899:TYR:CD2	2.42	0.55
1:D:901:LEU:HD11	2:E:909:LYS:O	2.06	0.55
2:E:998:ARG:C	2:E:999:ILE:HG13	2.32	0.55
1:J:727:LYS:HG2	1:J:728:ALA:O	2.07	0.55
1:J:754:GLU:HG3	1:J:881:GLN:OE1	2.05	0.55
1:M:751:THR:O	1:M:882:GLY:HA2	2.07	0.55
1:M:864:SER:OG	1:P:861:GLN:O	2.25	0.55
1:P:742:PRO:CG	1:P:774:ALA:HA	2.36	0.55
1:P:751:THR:O	1:P:882:GLY:HA2	2.07	0.55
1:P:902:ALA:H	2:Q:1030:ARG:HG2	1.71	0.55
2:Z:966:MET:HB2	2:Z:994:ALA:CB	2.37	0.55
1:e:721:LEU:HD13	1:k:822:SER:N	2.21	0.55
1:e:751:THR:O	1:e:882:GLY:HA2	2.07	0.55
1:e:784:GLY:O	1:e:812:ASP:HB2	2.06	0.55
2:i:965:TYR:HD1	2:i:975:LEU:HA	1.71	0.55
1:n:757:THR:CG2	1:n:802:VAL:HG21	2.35	0.55
1:A:902:ALA:H	2:B:1030:ARG:HG2	1.71	0.55
2:H:998:ARG:NH1	3:I:1045:PRO:HG2	2.22	0.55
1:J:753:THR:HG22	1:J:754:GLU:H	1.72	0.55
1:J:864:SER:OG	1:M:861:GLN:O	2.25	0.55
1:M:727:LYS:HG2	1:M:728:ALA:O	2.07	0.55
1:M:754:GLU:HG3	1:M:881:GLN:OE1	2.05	0.55
1:M:828:LEU:O	1:P:753:THR:CG2	2.55	0.55
1:M:902:ALA:H	2:N:1030:ARG:HG2	1.71	0.55
2:N:962:PRO:HB3	2:N:999:ILE:HG22	1.88	0.55
1:P:721:LEU:C	1:V:805:LEU:C	2.75	0.55
1:P:754:GLU:HG3	1:P:881:GLN:OE1	2.05	0.55
2:Q:962:PRO:HB3	2:Q:999:ILE:HG22	1.88	0.55
1:S:721:LEU:C	1:Y:805:LEU:C	2.75	0.55
1:S:777:LEU:HB3	2:T:916:LYS:HZ3	1.71	0.55
1:S:784:GLY:O	1:S:812:ASP:HB2	2.06	0.55
1:V:721:LEU:C	1:b:805:LEU:C	2.75	0.55
1:V:809:ILE:HD11	1:V:820:ILE:CD1	2.35	0.55
1:V:833:ILE:HG22	1:V:834:PRO:HD2	1.88	0.55
1:b:868:ARG:NH1	1:b:868:ARG:HG3	2.22	0.55
2:c:966:MET:HB2	2:c:994:ALA:CB	2.37	0.55
3:d:1051:VAL:HG13	3:d:1052:PRO:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:743:LYS:HD3	1:h:891:ARG:CA	2.36	0.55
1:k:743:LYS:HD3	1:k:891:ARG:CA	2.36	0.55
1:k:784:GLY:O	1:k:812:ASP:HB2	2.06	0.55
2:l:962:PRO:HB3	2:l:999:ILE:HG22	1.88	0.55
1:n:901:LEU:HD11	2:o:909:LYS:O	2.06	0.55
1:A:726:LEU:HD22	1:D:891:ARG:HH12	1.71	0.55
1:A:727:LYS:HG2	1:A:728:ALA:O	2.07	0.55
1:A:780:LEU:HD13	1:A:899:TYR:CD2	2.42	0.55
1:A:787:VAL:HG22	1:A:809:ILE:HA	1.89	0.55
1:A:901:LEU:HD11	2:B:909:LYS:O	2.06	0.55
2:B:998:ARG:C	2:B:999:ILE:HG13	2.32	0.55
1:D:787:VAL:HG22	1:D:809:ILE:HA	1.89	0.55
1:G:828:LEU:O	1:J:753:THR:CG2	2.55	0.55
2:H:954:GLU:HG2	2:H:955:PHE:N	2.22	0.55
2:H:966:MET:HB2	2:H:994:ALA:CB	2.37	0.55
1:J:787:VAL:HG22	1:J:809:ILE:HA	1.89	0.55
2:N:953:PHE:O	2:N:987:ILE:HA	2.06	0.55
2:N:966:MET:HB2	2:N:994:ALA:CB	2.37	0.55
2:T:998:ARG:NH1	3:U:1045:PRO:HG2	2.22	0.55
1:V:754:GLU:HG3	1:V:881:GLN:OE1	2.05	0.55
1:V:767:VAL:HG12	1:V:768:SER:N	2.22	0.55
1:Y:902:ALA:H	2:Z:1030:ARG:HG2	1.71	0.55
1:b:833:ILE:HG22	1:b:834:PRO:HD2	1.88	0.55
1:e:828:LEU:O	1:h:753:THR:CG2	2.55	0.55
1:h:721:LEU:HD13	1:n:822:SER:N	2.21	0.55
1:k:726:LEU:HD22	1:n:891:ARG:HH12	1.71	0.55
1:k:864:SER:OG	1:n:861:GLN:O	2.25	0.55
2:o:998:ARG:NH1	3:p:1045:PRO:HG2	2.22	0.55
1:A:753:THR:HG22	1:A:754:GLU:H	1.72	0.55
2:E:965:TYR:HD1	2:E:975:LEU:HA	1.71	0.55
1:G:726:LEU:HD22	1:J:891:ARG:HH12	1.71	0.55
1:G:829:GLY:HA3	1:J:753:THR:HG23	1.85	0.55
1:G:864:SER:OG	1:J:861:GLN:O	2.24	0.55
1:G:901:LEU:HD11	2:H:909:LYS:O	2.06	0.55
1:J:751:THR:O	1:J:882:GLY:HA2	2.07	0.55
1:J:823:ALA:O	1:J:887:ILE:HG23	2.06	0.55
2:K:966:MET:HB2	2:K:994:ALA:CB	2.37	0.55
1:M:784:GLY:O	1:M:812:ASP:HB2	2.06	0.55
3:R:1051:VAL:HG13	3:R:1052:PRO:HD2	1.87	0.55
2:T:962:PRO:HB3	2:T:999:ILE:HG22	1.88	0.55
3:U:1051:VAL:HG13	3:U:1052:PRO:HD2	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:998:ARG:NH1	3:X:1045:PRO:HG2	2.22	0.55
3:X:1051:VAL:HG13	3:X:1052:PRO:HD2	1.87	0.55
1:Y:767:VAL:HG12	1:Y:768:SER:N	2.22	0.55
2:Z:998:ARG:C	2:Z:999:ILE:HG13	2.32	0.55
1:b:726:LEU:CD1	1:e:891:ARG:HH12	2.14	0.55
1:b:828:LEU:O	1:e:753:THR:CG2	2.55	0.55
2:c:967:ILE:O	2:c:967:ILE:HG22	2.04	0.55
1:e:823:ALA:O	1:e:887:ILE:HG23	2.06	0.55
1:h:757:THR:CG2	1:h:802:VAL:HG21	2.35	0.55
1:k:751:THR:O	1:k:882:GLY:HA2	2.07	0.55
1:n:743:LYS:HD3	1:n:891:ARG:CA	2.36	0.55
1:n:780:LEU:HD13	1:n:899:TYR:CD2	2.42	0.55
2:o:962:PRO:HB3	2:o:999:ILE:HG22	1.88	0.55
2:o:966:MET:HB2	2:o:994:ALA:CB	2.37	0.55
1:A:828:LEU:O	1:D:753:THR:CG2	2.55	0.55
1:D:727:LYS:HG2	1:D:728:ALA:O	2.07	0.55
1:G:787:VAL:HG22	1:G:809:ILE:HA	1.89	0.55
2:H:965:TYR:HD1	2:H:975:LEU:HA	1.71	0.55
2:K:962:PRO:HB3	2:K:999:ILE:HG22	1.88	0.55
1:M:809:ILE:CD1	1:M:820:ILE:HG21	2.34	0.55
1:M:868:ARG:NH1	1:M:868:ARG:HG3	2.22	0.55
2:N:954:GLU:HG2	2:N:955:PHE:N	2.22	0.55
1:P:767:VAL:HG12	1:P:768:SER:N	2.22	0.55
2:Q:966:MET:HB2	2:Q:994:ALA:CB	2.37	0.55
1:Y:721:LEU:C	1:e:805:LEU:C	2.75	0.55
1:Y:751:THR:O	1:Y:882:GLY:HA2	2.07	0.55
1:b:721:LEU:HD13	1:h:822:SER:N	2.21	0.55
2:c:980:VAL:CG1	2:c:988:ILE:HG12	2.29	0.55
2:f:997:TRP:O	2:f:1007:GLY:HA2	2.07	0.55
1:h:868:ARG:NH1	1:h:868:ARG:HG3	2.22	0.55
1:A:751:THR:O	1:A:882:GLY:HA2	2.07	0.55
2:B:954:GLU:HA	2:B:987:ILE:CG1	2.19	0.55
2:E:966:MET:HB2	2:E:994:ALA:CB	2.37	0.55
1:G:767:VAL:HG12	1:G:768:SER:N	2.22	0.55
1:G:868:ARG:NH1	1:G:868:ARG:HG3	2.22	0.55
1:J:722:THR:HG21	1:P:820:ILE:H	1.72	0.55
2:K:953:PHE:O	2:K:987:ILE:HA	2.06	0.55
1:M:721:LEU:C	1:S:805:LEU:C	2.75	0.55
1:M:726:LEU:HD22	1:P:891:ARG:HH12	1.71	0.55
1:M:787:VAL:HG22	1:M:809:ILE:HA	1.89	0.55
1:M:823:ALA:O	1:M:887:ILE:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:784:GLY:O	1:P:812:ASP:HB2	2.06	0.55
1:P:901:LEU:HD11	2:Q:909:LYS:O	2.06	0.55
2:Q:954:GLU:HG2	2:Q:955:PHE:N	2.22	0.55
1:S:727:LYS:HG2	1:S:728:ALA:O	2.07	0.55
1:S:751:THR:O	1:S:882:GLY:HA2	2.07	0.55
2:T:966:MET:HB2	2:T:994:ALA:CB	2.37	0.55
2:W:998:ARG:C	2:W:999:ILE:HG13	2.32	0.55
1:b:722:THR:HG21	1:h:820:ILE:H	1.72	0.55
1:b:767:VAL:HG12	1:b:768:SER:N	2.22	0.55
2:c:997:TRP:O	2:c:1007:GLY:HA2	2.07	0.55
2:c:998:ARG:C	2:c:999:ILE:HG13	2.32	0.55
1:h:784:GLY:O	1:h:812:ASP:HB2	2.06	0.55
2:i:997:TRP:O	2:i:1007:GLY:HA2	2.07	0.55
1:k:809:ILE:CD1	1:k:820:ILE:HG21	2.34	0.55
1:k:868:ARG:NH1	1:k:868:ARG:HG3	2.22	0.55
1:n:787:VAL:HG22	1:n:809:ILE:HA	1.89	0.55
2:B:965:TYR:HD1	2:B:975:LEU:HA	1.71	0.54
2:B:998:ARG:NH1	3:C:1045:PRO:HG2	2.22	0.54
1:D:820:ILE:H	1:n:722:THR:HG21	1.72	0.54
1:M:901:LEU:HD11	2:N:909:LYS:O	2.06	0.54
2:Q:998:ARG:NH1	3:R:1045:PRO:HG2	2.22	0.54
1:S:767:VAL:HG12	1:S:768:SER:N	2.22	0.54
2:T:945:TRP:N	2:T:945:TRP:HE3	2.05	0.54
2:T:997:TRP:O	2:T:1007:GLY:HA2	2.07	0.54
2:W:962:PRO:HB3	2:W:999:ILE:HG22	1.88	0.54
2:W:966:MET:HB2	2:W:994:ALA:CB	2.37	0.54
1:Y:798:GLY:HA3	1:b:843:GLU:HG2	1.90	0.54
1:Y:825:THR:HA	1:Y:832:GLY:H	1.73	0.54
2:Z:997:TRP:O	2:Z:1007:GLY:HA2	2.07	0.54
1:b:777:LEU:HB3	2:c:916:LYS:HZ3	1.72	0.54
1:b:823:ALA:O	1:b:887:ILE:HG23	2.06	0.54
1:b:825:THR:HA	1:b:832:GLY:H	1.72	0.54
1:e:722:THR:HG21	1:k:820:ILE:H	1.72	0.54
2:i:998:ARG:NH1	3:j:1045:PRO:HG2	2.22	0.54
1:k:767:VAL:HG12	1:k:768:SER:N	2.22	0.54
1:A:722:THR:HG21	1:G:820:ILE:H	1.72	0.54
1:A:753:THR:CG2	1:n:828:LEU:O	2.55	0.54
2:B:962:PRO:HB3	2:B:999:ILE:HG22	1.88	0.54
1:J:767:VAL:HG12	1:J:768:SER:N	2.22	0.54
1:J:798:GLY:HA3	1:M:843:GLU:HG2	1.90	0.54
1:J:868:ARG:NH1	1:J:868:ARG:HG3	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:885:VAL:HG22	1:J:886:SER:N	2.17	0.54
3:L:1051:VAL:HG13	3:L:1052:PRO:HD2	1.87	0.54
1:M:833:ILE:HG22	1:M:834:PRO:HD2	1.88	0.54
2:N:945:TRP:N	2:N:945:TRP:HE3	2.05	0.54
2:N:980:VAL:CG1	2:N:988:ILE:HG12	2.29	0.54
2:N:998:ARG:NH1	3:O:1045:PRO:HG2	2.22	0.54
3:O:1051:VAL:HG13	3:O:1052:PRO:HD2	1.87	0.54
2:Q:997:TRP:O	2:Q:1007:GLY:HA2	2.07	0.54
1:S:722:THR:HG21	1:Y:820:ILE:H	1.72	0.54
1:S:725:ARG:HH11	1:Y:819:ASN:CB	2.19	0.54
1:S:809:ILE:CD1	1:S:820:ILE:HG21	2.34	0.54
1:V:722:THR:HG21	1:b:820:ILE:H	1.72	0.54
1:V:753:THR:HG22	1:V:754:GLU:H	1.72	0.54
1:V:825:THR:HA	1:V:832:GLY:H	1.73	0.54
1:V:868:ARG:NH1	1:V:868:ARG:HG3	2.22	0.54
2:W:997:TRP:O	2:W:1007:GLY:HA2	2.07	0.54
1:Y:722:THR:HG21	1:e:820:ILE:H	1.72	0.54
1:Y:809:ILE:HD11	1:Y:820:ILE:CD1	2.35	0.54
3:a:1051:VAL:HG13	3:a:1052:PRO:HD2	1.87	0.54
2:c:945:TRP:N	2:c:945:TRP:HE3	2.05	0.54
2:f:998:ARG:C	2:f:999:ILE:HG13	2.32	0.54
1:h:828:LEU:O	1:k:753:THR:CG2	2.55	0.54
2:i:954:GLU:HG2	2:i:955:PHE:N	2.22	0.54
2:i:962:PRO:HB3	2:i:999:ILE:HG22	1.88	0.54
2:i:1005:VAL:HG13	2:i:1005:VAL:O	2.07	0.54
1:k:780:LEU:HD13	1:k:899:TYR:CD2	2.42	0.54
2:l:1005:VAL:HG13	2:l:1005:VAL:O	2.07	0.54
1:n:809:ILE:CD1	1:n:820:ILE:HG21	2.34	0.54
1:n:825:THR:HA	1:n:832:GLY:H	1.73	0.54
2:o:998:ARG:C	2:o:999:ILE:HG13	2.32	0.54
1:A:780:LEU:HD13	1:A:895:PHE:HB2	1.90	0.54
1:A:891:ARG:HH12	1:n:726:LEU:HD22	1.71	0.54
1:D:780:LEU:HD13	1:D:895:PHE:HB2	1.89	0.54
1:D:798:GLY:HA3	1:G:843:GLU:HG2	1.90	0.54
1:D:828:LEU:O	1:G:753:THR:CG2	2.55	0.54
2:E:962:PRO:HB3	2:E:999:ILE:HG22	1.88	0.54
1:J:901:LEU:HD11	2:K:909:LYS:O	2.06	0.54
1:M:720:ASN:O	1:S:805:LEU:HB3	2.07	0.54
2:N:997:TRP:O	2:N:1007:GLY:HA2	2.07	0.54
1:P:720:ASN:O	1:V:805:LEU:HB3	2.07	0.54
1:S:753:THR:HG22	1:S:754:GLU:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:798:GLY:HA3	1:V:843:GLU:HG2	1.90	0.54
2:W:945:TRP:N	2:W:945:TRP:HE3	2.05	0.54
1:Y:727:LYS:HG2	1:Y:728:ALA:O	2.07	0.54
2:Z:953:PHE:O	2:Z:987:ILE:HA	2.06	0.54
2:Z:998:ARG:NH1	3:a:1045:PRO:HG2	2.22	0.54
1:e:736:ASN:CB	1:e:739:LEU:HG	2.26	0.54
1:e:825:THR:HA	1:e:832:GLY:H	1.73	0.54
2:f:954:GLU:HG2	2:f:955:PHE:N	2.22	0.54
1:h:825:THR:HA	1:h:832:GLY:H	1.73	0.54
1:k:825:THR:HA	1:k:832:GLY:H	1.73	0.54
1:k:828:LEU:O	1:n:753:THR:CG2	2.55	0.54
2:o:997:TRP:O	2:o:1007:GLY:HA2	2.07	0.54
2:o:1005:VAL:HG13	2:o:1005:VAL:O	2.07	0.54
2:E:954:GLU:HG2	2:E:955:PHE:N	2.22	0.54
2:E:998:ARG:NH1	3:F:1045:PRO:HG2	2.22	0.54
1:G:722:THR:HG21	1:M:820:ILE:H	1.72	0.54
1:G:751:THR:O	1:G:882:GLY:HA2	2.07	0.54
2:H:962:PRO:HB3	2:H:999:ILE:HG22	1.88	0.54
1:J:720:ASN:O	1:P:805:LEU:HB3	2.07	0.54
1:J:825:THR:HA	1:J:832:GLY:H	1.73	0.54
1:P:798:GLY:HA3	1:S:843:GLU:HG2	1.90	0.54
1:V:727:LYS:HG2	1:V:728:ALA:O	2.07	0.54
2:W:954:GLU:HG2	2:W:955:PHE:N	2.22	0.54
2:Z:945:TRP:N	2:Z:945:TRP:HE3	2.05	0.54
2:Z:962:PRO:HB3	2:Z:999:ILE:HG22	1.88	0.54
1:e:833:ILE:HG22	1:e:834:PRO:HD2	1.88	0.54
1:e:864:SER:HG	1:h:861:GLN:C	2.14	0.54
1:e:864:SER:OG	1:h:861:GLN:O	2.25	0.54
2:f:962:PRO:HB3	2:f:999:ILE:HG22	1.88	0.54
1:h:751:THR:O	1:h:882:GLY:HA2	2.07	0.54
1:h:902:ALA:H	2:i:1030:ARG:HG2	1.71	0.54
2:i:945:TRP:N	2:i:945:TRP:HE3	2.05	0.54
1:k:787:VAL:HG22	1:k:809:ILE:HA	1.89	0.54
2:l:997:TRP:O	2:l:1007:GLY:HA2	2.07	0.54
1:n:767:VAL:HG12	1:n:768:SER:N	2.22	0.54
2:B:1005:VAL:O	2:B:1005:VAL:HG13	2.07	0.54
1:D:767:VAL:HG12	1:D:768:SER:N	2.22	0.54
1:G:798:GLY:HA3	1:J:843:GLU:HG2	1.90	0.54
1:J:833:ILE:HG22	1:J:834:PRO:HD2	1.88	0.54
1:M:722:THR:HG21	1:S:820:ILE:H	1.72	0.54
1:M:753:THR:HG22	1:M:754:GLU:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:825:THR:HA	1:M:832:GLY:H	1.73	0.54
1:P:722:THR:HG21	1:V:820:ILE:H	1.72	0.54
1:P:787:VAL:HG22	1:P:809:ILE:HA	1.89	0.54
1:S:720:ASN:O	1:Y:805:LEU:HB3	2.07	0.54
1:S:737:PRO:HB3	1:S:775:ASP:H	1.73	0.54
1:S:787:VAL:HG12	1:S:788:ASP:N	2.22	0.54
1:S:825:THR:HA	1:S:832:GLY:H	1.73	0.54
1:V:798:GLY:HA3	1:Y:843:GLU:HG2	1.90	0.54
1:b:721:LEU:C	1:h:805:LEU:C	2.75	0.54
1:b:751:THR:O	1:b:882:GLY:HA2	2.07	0.54
2:c:1005:VAL:O	2:c:1005:VAL:HG13	2.07	0.54
2:f:970:SER:HB3	2:f:972:LYS:HG3	1.90	0.54
2:f:998:ARG:NH1	3:g:1045:PRO:HG2	2.22	0.54
2:f:1005:VAL:O	2:f:1005:VAL:HG13	2.07	0.54
2:i:980:VAL:CG1	1:k:766:ARG:HH12	2.18	0.54
2:l:954:GLU:HG2	2:l:955:PHE:N	2.22	0.54
2:l:966:MET:HB2	2:l:994:ALA:CB	2.37	0.54
2:l:998:ARG:C	2:l:999:ILE:HG13	2.32	0.54
1:n:780:LEU:HD13	1:n:895:PHE:HB2	1.90	0.54
2:o:954:GLU:HG2	2:o:955:PHE:N	2.22	0.54
1:A:798:GLY:HA3	1:D:843:GLU:HG2	1.90	0.54
2:B:970:SER:HB3	2:B:972:LYS:HG3	1.90	0.54
1:D:751:THR:O	1:D:882:GLY:HA2	2.07	0.54
1:G:780:LEU:HD13	1:G:895:PHE:HB2	1.90	0.54
2:K:954:GLU:HG2	2:K:955:PHE:N	2.22	0.54
1:M:798:GLY:HA3	1:P:843:GLU:HG2	1.90	0.54
2:N:998:ARG:C	2:N:999:ILE:HG13	2.32	0.54
1:S:787:VAL:HG22	1:S:809:ILE:HA	1.89	0.54
2:T:980:VAL:CG1	1:V:766:ARG:HH12	2.18	0.54
2:T:998:ARG:C	2:T:999:ILE:HG13	2.32	0.54
1:V:787:VAL:HG12	1:V:788:ASP:N	2.22	0.54
1:b:787:VAL:HG12	1:b:788:ASP:N	2.22	0.54
1:e:737:PRO:HB3	1:e:775:ASP:H	1.73	0.54
2:f:966:MET:HB2	2:f:994:ALA:CB	2.37	0.54
1:h:720:ASN:O	1:n:805:LEU:HB3	2.07	0.54
1:h:780:LEU:HD13	1:h:899:TYR:CD2	2.42	0.54
1:k:833:ILE:HG22	1:k:834:PRO:HD2	1.88	0.54
2:l:929:VAL:CG2	2:l:1009:ARG:HG2	2.23	0.54
2:l:970:SER:HB3	2:l:972:LYS:HG3	1.90	0.54
2:l:998:ARG:NH1	3:m:1045:PRO:HG2	2.22	0.54
1:n:727:LYS:HG2	1:n:728:ALA:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:805:LEU:C	1:k:721:LEU:C	2.75	0.54
1:G:825:THR:HA	1:G:832:GLY:H	1.72	0.54
1:J:726:LEU:HD22	1:M:891:ARG:HH12	1.71	0.54
2:K:997:TRP:O	2:K:1007:GLY:HA2	2.07	0.54
1:P:753:THR:HG22	1:P:754:GLU:H	1.72	0.54
2:Q:998:ARG:C	2:Q:999:ILE:HG13	2.32	0.54
1:V:720:ASN:O	1:b:805:LEU:HB3	2.07	0.54
1:V:864:SER:OG	1:Y:861:GLN:O	2.25	0.54
1:Y:787:VAL:HG12	1:Y:788:ASP:N	2.22	0.54
1:Y:809:ILE:CD1	1:Y:820:ILE:HG21	2.34	0.54
1:Y:868:ARG:NH1	1:Y:868:ARG:HG3	2.22	0.54
1:b:798:GLY:HA3	1:e:843:GLU:HG2	1.90	0.54
1:e:720:ASN:O	1:k:805:LEU:HB3	2.07	0.54
1:e:902:ALA:CA	2:f:1029:VAL:HG13	2.38	0.54
2:f:929:VAL:CG2	2:f:1009:ARG:HG2	2.23	0.54
2:f:945:TRP:N	2:f:945:TRP:HE3	2.05	0.54
1:h:767:VAL:HG12	1:h:768:SER:N	2.22	0.54
1:h:787:VAL:HG22	1:h:809:ILE:HA	1.89	0.54
1:h:885:VAL:HG22	1:h:886:SER:N	2.17	0.54
1:k:780:LEU:HD13	1:k:895:PHE:HB2	1.89	0.54
1:A:833:ILE:HG22	1:A:834:PRO:HD2	1.88	0.54
1:D:763:VAL:HG12	1:D:764:SER:H	1.73	0.54
1:D:868:ARG:NH1	1:D:868:ARG:HG3	2.22	0.54
1:D:902:ALA:H	2:E:1030:ARG:HG2	1.71	0.54
1:G:720:ASN:O	1:M:805:LEU:HB3	2.07	0.54
1:G:763:VAL:HG12	1:G:764:SER:N	2.23	0.54
2:H:945:TRP:N	2:H:945:TRP:HE3	2.05	0.54
2:H:997:TRP:O	2:H:1007:GLY:HA2	2.07	0.54
1:J:721:LEU:C	1:P:805:LEU:C	2.75	0.54
2:K:998:ARG:C	2:K:999:ILE:HG13	2.32	0.54
1:M:767:VAL:HG12	1:M:768:SER:N	2.22	0.54
2:Q:945:TRP:N	2:Q:945:TRP:HE3	2.05	0.54
1:Y:720:ASN:H	1:e:805:LEU:HD21	1.67	0.54
1:Y:763:VAL:HG12	1:Y:764:SER:N	2.23	0.54
2:Z:970:SER:HB3	2:Z:972:LYS:HG3	1.90	0.54
1:b:809:ILE:CD1	1:b:820:ILE:HG21	2.34	0.54
2:c:928:TYR:HH	2:c:946:ASP:HB3	1.73	0.54
1:e:767:VAL:HG12	1:e:768:SER:N	2.22	0.54
1:e:798:GLY:HA3	1:h:843:GLU:HG2	1.90	0.54
1:e:809:ILE:CD1	1:e:820:ILE:HG21	2.34	0.54
1:h:753:THR:HG22	1:h:754:GLU:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:763:VAL:HG12	1:h:764:SER:H	1.73	0.54
1:h:763:VAL:HG12	1:h:764:SER:N	2.23	0.54
2:i:966:MET:HB2	2:i:994:ALA:CB	2.37	0.54
1:n:763:VAL:HG12	1:n:764:SER:H	1.73	0.54
1:n:787:VAL:HG22	1:n:809:ILE:CG1	2.36	0.54
1:n:833:ILE:HG22	1:n:834:PRO:HD2	1.88	0.54
1:A:787:VAL:HG22	1:A:809:ILE:CG1	2.36	0.54
2:E:1005:VAL:O	2:E:1005:VAL:HG13	2.07	0.54
1:J:780:LEU:HD13	1:J:895:PHE:HB2	1.90	0.54
1:J:829:GLY:HA3	1:M:753:THR:HG23	1.85	0.54
1:M:730:ARG:O	1:P:818:VAL:HG23	2.08	0.54
1:S:730:ARG:O	1:V:818:VAL:HG23	2.08	0.54
1:S:868:ARG:NH1	1:S:868:ARG:HG3	2.22	0.54
1:V:763:VAL:HG12	1:V:764:SER:N	2.23	0.54
1:Y:864:SER:OG	1:b:861:GLN:O	2.25	0.54
1:b:737:PRO:HB3	1:b:775:ASP:H	1.73	0.54
1:b:763:VAL:HG12	1:b:764:SER:N	2.23	0.54
2:c:962:PRO:HB3	2:c:999:ILE:HG22	1.88	0.54
1:h:727:LYS:HG2	1:h:728:ALA:O	2.07	0.54
1:h:798:GLY:HA3	1:k:843:GLU:HG2	1.90	0.54
1:k:798:GLY:HA3	1:n:843:GLU:HG2	1.90	0.54
2:l:965:TYR:HD1	2:l:975:LEU:HA	1.71	0.54
2:o:965:TYR:HD1	2:o:975:LEU:HA	1.71	0.54
1:A:737:PRO:HB3	1:A:775:ASP:H	1.73	0.54
1:A:787:VAL:HG12	1:A:788:ASP:N	2.22	0.54
1:A:805:LEU:HB3	1:k:720:ASN:O	2.07	0.54
1:A:820:ILE:H	1:k:722:THR:HG21	1.72	0.54
1:A:843:GLU:HG2	1:n:798:GLY:HA3	1.90	0.54
2:B:997:TRP:O	2:B:1007:GLY:HA2	2.07	0.54
1:D:763:VAL:HG12	1:D:764:SER:N	2.23	0.54
1:G:737:PRO:HB3	1:G:775:ASP:H	1.73	0.54
2:H:1005:VAL:O	2:H:1005:VAL:HG13	2.07	0.54
1:J:721:LEU:CD2	1:P:805:LEU:HB2	2.30	0.54
1:P:868:ARG:NH1	1:P:868:ARG:HG3	2.22	0.54
2:Q:929:VAL:CG2	2:Q:1009:ARG:HG2	2.23	0.54
1:S:763:VAL:HG12	1:S:764:SER:H	1.73	0.54
1:S:763:VAL:HG12	1:S:764:SER:N	2.23	0.54
2:T:954:GLU:HG2	2:T:955:PHE:N	2.22	0.54
2:Z:1005:VAL:O	2:Z:1005:VAL:HG13	2.07	0.54
1:b:809:ILE:HD11	1:b:820:ILE:CD1	2.35	0.54
2:c:954:GLU:HG2	2:c:955:PHE:N	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:780:LEU:HD13	1:h:895:PHE:HB2	1.90	0.54
1:h:809:ILE:CD1	1:h:820:ILE:HG21	2.34	0.54
1:h:833:ILE:HG22	1:h:834:PRO:HD2	1.88	0.54
2:i:970:SER:HB3	2:i:972:LYS:HG3	1.90	0.54
2:i:998:ARG:C	2:i:999:ILE:HG13	2.32	0.54
2:o:945:TRP:N	2:o:945:TRP:HE3	2.05	0.54
1:A:825:THR:HA	1:A:832:GLY:H	1.73	0.53
2:H:970:SER:HB3	2:H:972:LYS:HG3	1.90	0.53
2:K:1005:VAL:O	2:K:1005:VAL:HG13	2.07	0.53
1:M:787:VAL:HG12	1:M:788:ASP:N	2.23	0.53
1:P:726:LEU:CB	1:S:891:ARG:NH1	2.50	0.53
1:P:864:SER:OG	1:S:861:GLN:O	2.25	0.53
2:Q:1024:THR:HG22	2:Q:1025:ALA:N	2.20	0.53
2:T:929:VAL:HG22	2:T:1009:ARG:CG	2.23	0.53
1:V:737:PRO:HB3	1:V:775:ASP:H	1.73	0.53
1:V:763:VAL:HG12	1:V:764:SER:H	1.73	0.53
1:Y:726:LEU:CB	1:b:891:ARG:NH1	2.51	0.53
1:Y:753:THR:HG22	1:Y:754:GLU:H	1.72	0.53
2:Z:929:VAL:CG2	2:Z:1009:ARG:HG2	2.23	0.53
1:b:727:LYS:HG2	1:b:728:ALA:O	2.07	0.53
2:c:970:SER:HB3	2:c:972:LYS:HG3	1.90	0.53
1:e:780:LEU:HD13	1:e:899:TYR:CD2	2.42	0.53
1:e:868:ARG:NH1	1:e:868:ARG:HG3	2.22	0.53
2:f:955:PHE:HB2	2:f:986:ASN:HB3	1.90	0.53
1:h:902:ALA:CA	2:i:1029:VAL:HG13	2.38	0.53
2:l:945:TRP:N	2:l:945:TRP:HE3	2.05	0.53
1:n:753:THR:HG22	1:n:754:GLU:H	1.72	0.53
2:o:970:SER:HB3	2:o:972:LYS:HG3	1.90	0.53
1:A:767:VAL:HG12	1:A:768:SER:N	2.22	0.53
1:A:864:SER:OG	1:D:861:GLN:O	2.25	0.53
1:D:737:PRO:HB3	1:D:775:ASP:H	1.73	0.53
1:D:833:ILE:HG22	1:D:834:PRO:HD2	1.88	0.53
2:K:998:ARG:NH1	3:L:1045:PRO:HG2	2.22	0.53
2:N:1005:VAL:HG13	2:N:1005:VAL:O	2.07	0.53
1:P:730:ARG:O	1:S:818:VAL:HG23	2.08	0.53
1:P:737:PRO:HB3	1:P:775:ASP:H	1.73	0.53
1:P:787:VAL:HG12	1:P:788:ASP:N	2.22	0.53
1:P:825:THR:HA	1:P:832:GLY:H	1.73	0.53
2:Q:1005:VAL:HG13	2:Q:1005:VAL:O	2.07	0.53
2:W:970:SER:HB3	2:W:972:LYS:HG3	1.90	0.53
1:Y:730:ARG:O	1:b:818:VAL:HG23	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:864:SER:OG	1:e:861:GLN:O	2.24	0.53
2:c:998:ARG:NH1	3:d:1045:PRO:HG2	2.22	0.53
1:e:727:LYS:HG2	1:e:728:ALA:O	2.07	0.53
1:e:763:VAL:HG12	1:e:764:SER:N	2.23	0.53
1:e:780:LEU:HD13	1:e:895:PHE:HB2	1.90	0.53
1:h:722:THR:HG21	1:n:820:ILE:H	1.72	0.53
1:h:737:PRO:HB3	1:h:775:ASP:H	1.73	0.53
1:h:787:VAL:HG22	1:h:809:ILE:CG1	2.36	0.53
2:i:955:PHE:HB2	2:i:986:ASN:HB3	1.90	0.53
1:A:818:VAL:HG23	1:n:730:ARG:O	2.08	0.53
2:B:945:TRP:HE3	2:B:945:TRP:N	2.05	0.53
1:D:720:ASN:O	1:J:805:LEU:HB3	2.07	0.53
2:E:970:SER:HB3	2:E:972:LYS:HG3	1.90	0.53
1:G:730:ARG:O	1:J:818:VAL:HG23	2.08	0.53
1:G:736:ASN:HB3	1:G:738:SER:H	1.74	0.53
1:G:787:VAL:HG12	1:G:788:ASP:N	2.22	0.53
2:H:966:MET:HB2	2:H:994:ALA:HB2	1.91	0.53
1:J:730:ARG:O	1:M:818:VAL:HG23	2.08	0.53
2:K:945:TRP:N	2:K:945:TRP:HE3	2.05	0.53
2:K:970:SER:HB3	2:K:972:LYS:HG3	1.90	0.53
2:N:1024:THR:HG22	2:N:1025:ALA:N	2.20	0.53
1:P:763:VAL:HG12	1:P:764:SER:N	2.23	0.53
2:T:1024:THR:HG22	2:T:1025:ALA:N	2.20	0.53
1:V:787:VAL:HG22	1:V:809:ILE:HA	1.89	0.53
2:W:1005:VAL:HG13	2:W:1005:VAL:O	2.07	0.53
1:e:787:VAL:HG22	1:e:809:ILE:HA	1.89	0.53
1:h:743:LYS:CD	1:h:891:ARG:HA	2.39	0.53
1:k:727:LYS:HG2	1:k:728:ALA:O	2.07	0.53
1:k:743:LYS:CD	1:k:891:ARG:HA	2.39	0.53
1:k:763:VAL:HG12	1:k:764:SER:N	2.23	0.53
1:n:787:VAL:HG12	1:n:788:ASP:N	2.22	0.53
1:D:722:THR:HG21	1:J:820:ILE:H	1.72	0.53
2:E:966:MET:HB2	2:E:994:ALA:HB2	1.91	0.53
1:G:902:ALA:CA	2:H:1029:VAL:HG13	2.38	0.53
1:M:780:LEU:HD13	1:M:895:PHE:HB2	1.90	0.53
1:P:721:LEU:CD2	1:V:805:LEU:HB2	2.30	0.53
2:Q:970:SER:HB3	2:Q:972:LYS:HG3	1.90	0.53
1:S:743:LYS:CD	1:S:891:ARG:HA	2.39	0.53
1:V:743:LYS:CD	1:V:891:ARG:HA	2.39	0.53
1:V:885:VAL:HG22	1:V:886:SER:N	2.17	0.53
1:b:763:VAL:HG12	1:b:764:SER:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:954:GLU:HA	2:c:987:ILE:CG1	2.19	0.53
1:e:753:THR:HG22	1:e:754:GLU:H	1.72	0.53
1:h:864:SER:OG	1:k:861:GLN:O	2.25	0.53
1:k:737:PRO:HB3	1:k:775:ASP:H	1.73	0.53
1:k:753:THR:HG22	1:k:754:GLU:H	1.72	0.53
2:B:920:PHE:HB3	3:C:1060:ASP:OD2	2.09	0.53
2:B:966:MET:HB2	2:B:994:ALA:HB2	1.91	0.53
1:D:730:ARG:O	1:G:818:VAL:HG23	2.08	0.53
1:D:805:LEU:C	1:n:721:LEU:C	2.75	0.53
2:E:945:TRP:N	2:E:945:TRP:HE3	2.05	0.53
2:E:997:TRP:O	2:E:1007:GLY:HA2	2.07	0.53
1:G:885:VAL:HG22	1:G:886:SER:N	2.17	0.53
1:G:891:ARG:NH1	1:G:891:ARG:HB3	2.08	0.53
1:J:763:VAL:HG12	1:J:764:SER:H	1.73	0.53
1:J:763:VAL:HG12	1:J:764:SER:N	2.23	0.53
1:J:891:ARG:NH1	1:J:891:ARG:HB3	2.08	0.53
2:N:1029:VAL:HG12	2:N:1030:ARG:N	2.24	0.53
2:T:1005:VAL:HG13	2:T:1005:VAL:O	2.07	0.53
1:Y:720:ASN:O	1:e:805:LEU:HB3	2.07	0.53
1:Y:736:ASN:HB3	1:Y:738:SER:H	1.74	0.53
1:Y:787:VAL:HG22	1:Y:809:ILE:HA	1.89	0.53
1:b:743:LYS:CD	1:b:891:ARG:HA	2.39	0.53
1:b:778:VAL:HG11	1:b:780:LEU:HD21	1.91	0.53
1:b:787:VAL:HG22	1:b:809:ILE:HA	1.89	0.53
2:c:966:MET:HB2	2:c:994:ALA:HB2	1.91	0.53
1:e:778:VAL:HG11	1:e:780:LEU:HD21	1.91	0.53
1:D:787:VAL:HG12	1:D:788:ASP:N	2.22	0.53
1:G:743:LYS:CD	1:G:891:ARG:HA	2.39	0.53
1:G:787:VAL:HG22	1:G:809:ILE:CG1	2.36	0.53
1:G:833:ILE:HG22	1:G:834:PRO:HD2	1.88	0.53
1:J:737:PRO:HB3	1:J:775:ASP:H	1.73	0.53
2:K:966:MET:HB2	2:K:994:ALA:HB2	1.91	0.53
2:K:1029:VAL:HG12	2:K:1030:ARG:N	2.24	0.53
2:N:970:SER:HB3	2:N:972:LYS:HG3	1.90	0.53
1:P:736:ASN:CB	1:P:739:LEU:HG	2.26	0.53
1:P:743:LYS:CD	1:P:891:ARG:HA	2.39	0.53
2:Q:1029:VAL:HG12	2:Q:1030:ARG:N	2.24	0.53
2:T:1029:VAL:HG12	2:T:1030:ARG:N	2.24	0.53
1:Y:778:VAL:HG11	1:Y:780:LEU:HD21	1.91	0.53
1:b:736:ASN:HB3	1:b:738:SER:H	1.74	0.53
1:b:780:LEU:HD13	1:b:899:TYR:CD2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:721:LEU:C	1:k:805:LEU:C	2.75	0.53
1:e:730:ARG:O	1:h:818:VAL:HG23	2.08	0.53
1:h:777:LEU:HB3	2:i:916:LYS:HZ3	1.73	0.53
1:h:787:VAL:HG12	1:h:788:ASP:N	2.23	0.53
2:i:966:MET:HB2	2:i:994:ALA:HB2	1.91	0.53
1:k:730:ARG:O	1:n:818:VAL:HG23	2.08	0.53
2:o:966:MET:HB2	2:o:994:ALA:HB2	1.91	0.53
1:A:720:ASN:O	1:G:805:LEU:HB3	2.07	0.53
1:A:742:PRO:CB	1:D:810:ARG:CD	2.87	0.53
1:A:763:VAL:HG12	1:A:764:SER:N	2.23	0.53
1:A:809:ILE:CD1	1:A:820:ILE:HG21	2.34	0.53
1:D:742:PRO:CB	1:G:810:ARG:CD	2.87	0.53
2:E:928:TYR:HH	2:E:946:ASP:HB3	1.73	0.53
1:J:717:LEU:HD12	1:P:805:LEU:HD22	1.91	0.53
1:J:736:ASN:HB3	1:J:738:SER:H	1.74	0.53
1:M:743:LYS:CD	1:M:891:ARG:HA	2.39	0.53
1:M:767:VAL:HG23	1:M:785:SER:HB2	1.88	0.53
2:N:966:MET:HB2	2:N:994:ALA:HB2	1.91	0.53
1:P:717:LEU:HD12	1:V:805:LEU:HD22	1.91	0.53
1:S:742:PRO:CB	1:V:810:ARG:CD	2.87	0.53
2:T:970:SER:HB3	2:T:972:LYS:HG3	1.90	0.53
1:V:730:ARG:O	1:Y:818:VAL:HG23	2.08	0.53
2:W:955:PHE:HB2	2:W:986:ASN:HB3	1.90	0.53
2:Z:920:PHE:HB3	3:a:1060:ASP:OD2	2.09	0.53
1:b:720:ASN:O	1:h:805:LEU:HB3	2.07	0.53
1:e:787:VAL:HG12	1:e:788:ASP:N	2.22	0.53
1:e:809:ILE:HD11	1:e:820:ILE:CD1	2.35	0.53
2:f:966:MET:HB2	2:f:994:ALA:HB2	1.91	0.53
2:f:980:VAL:CG1	1:h:766:ARG:HH12	2.18	0.53
1:h:778:VAL:HG11	1:h:780:LEU:HD21	1.91	0.53
1:k:902:ALA:CA	2:l:1029:VAL:HG13	2.38	0.53
2:l:966:MET:HB2	2:l:994:ALA:HB2	1.91	0.53
1:n:868:ARG:NH1	1:n:868:ARG:HG3	2.22	0.53
1:A:775:ASP:HA	1:D:812:ASP:OD1	2.09	0.53
1:D:825:THR:HA	1:D:832:GLY:H	1.73	0.53
1:D:891:ARG:NH1	1:D:891:ARG:HB3	2.08	0.53
1:G:717:LEU:HD12	1:M:805:LEU:HD22	1.91	0.53
2:H:944:VAL:HG22	2:H:953:PHE:HD1	1.73	0.53
1:J:809:ILE:HD11	1:J:820:ILE:CD1	2.35	0.53
1:P:736:ASN:HB3	1:P:738:SER:H	1.74	0.53
2:Q:980:VAL:CG1	2:Q:988:ILE:HG12	2.29	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:780:LEU:HD13	1:S:899:TYR:CD2	2.42	0.53
1:V:717:LEU:HD12	1:b:805:LEU:HD22	1.91	0.53
1:V:742:PRO:CB	1:Y:810:ARG:CD	2.87	0.53
2:W:1029:VAL:HG12	2:W:1030:ARG:N	2.24	0.53
1:Y:743:LYS:CD	1:Y:891:ARG:HA	2.39	0.53
2:Z:954:GLU:HG2	2:Z:955:PHE:N	2.22	0.53
2:Z:966:MET:HB2	2:Z:994:ALA:HB2	1.91	0.53
1:b:730:ARG:O	1:e:818:VAL:HG23	2.08	0.53
1:b:753:THR:HG22	1:b:754:GLU:H	1.72	0.53
2:c:920:PHE:HB3	3:d:1060:ASP:OD2	2.09	0.53
1:k:736:ASN:HB3	1:k:738:SER:H	1.74	0.53
1:k:787:VAL:HG22	1:k:809:ILE:CG1	2.36	0.53
1:k:787:VAL:HG12	1:k:788:ASP:N	2.22	0.53
1:A:730:ARG:O	1:D:818:VAL:HG23	2.08	0.53
1:A:810:ARG:CD	1:n:742:PRO:CB	2.87	0.53
2:B:954:GLU:HG2	2:B:955:PHE:N	2.22	0.53
2:B:980:VAL:CG1	1:D:766:ARG:HH12	2.18	0.53
1:D:743:LYS:CD	1:D:891:ARG:HA	2.39	0.53
2:E:920:PHE:HB3	3:F:1060:ASP:OD2	2.09	0.53
2:K:944:VAL:HG22	2:K:953:PHE:HD1	1.73	0.53
1:M:717:LEU:HD12	1:S:805:LEU:HD22	1.91	0.53
1:M:737:PRO:HB3	1:M:775:ASP:H	1.73	0.53
1:M:763:VAL:HG12	1:M:764:SER:H	1.73	0.53
1:P:780:LEU:HD13	1:P:895:PHE:HB2	1.89	0.53
1:V:736:ASN:HB3	1:V:738:SER:H	1.74	0.53
1:V:778:VAL:HG11	1:V:780:LEU:HD21	1.91	0.53
2:W:966:MET:HB2	2:W:994:ALA:HB2	1.91	0.53
2:Z:944:VAL:HG22	2:Z:953:PHE:HD1	1.73	0.53
2:c:955:PHE:HB2	2:c:986:ASN:HB3	1.90	0.53
2:l:955:PHE:HB2	2:l:986:ASN:HB3	1.90	0.53
1:A:812:ASP:OD1	1:n:775:ASP:HA	2.09	0.53
2:E:944:VAL:HG22	2:E:953:PHE:HD1	1.73	0.53
1:G:742:PRO:CB	1:J:810:ARG:CD	2.87	0.53
1:M:736:ASN:HB3	1:M:738:SER:H	1.74	0.53
1:M:763:VAL:HG12	1:M:764:SER:N	2.23	0.53
1:M:829:GLY:HA3	1:P:753:THR:HG23	1.85	0.53
1:P:742:PRO:CB	1:S:810:ARG:CD	2.87	0.53
1:P:747:ILE:O	1:P:886:SER:HA	2.09	0.53
1:P:780:LEU:HD13	1:P:899:TYR:CD2	2.42	0.53
1:P:833:ILE:HD13	1:P:885:VAL:CG2	2.38	0.53
1:P:902:ALA:CA	2:Q:1029:VAL:HG13	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:966:MET:HB2	2:Q:994:ALA:HB2	1.91	0.53
1:S:717:LEU:HD12	1:Y:805:LEU:HD22	1.91	0.53
1:S:736:ASN:HB3	1:S:738:SER:H	1.74	0.53
2:T:955:PHE:HB2	2:T:986:ASN:HB3	1.90	0.53
2:T:966:MET:HB2	2:T:994:ALA:HB2	1.91	0.53
2:W:920:PHE:HB3	3:X:1060:ASP:OD2	2.09	0.53
2:W:944:VAL:HG22	2:W:953:PHE:HD1	1.73	0.53
2:W:1024:THR:HG22	2:W:1025:ALA:N	2.20	0.53
1:Y:737:PRO:HB3	1:Y:775:ASP:H	1.73	0.53
1:Y:742:PRO:CB	1:b:810:ARG:CD	2.87	0.53
1:b:747:ILE:O	1:b:886:SER:HA	2.09	0.53
1:e:743:LYS:CD	1:e:891:ARG:HA	2.39	0.53
2:f:920:PHE:HB3	3:g:1060:ASP:OD2	2.09	0.53
1:k:778:VAL:HG11	1:k:780:LEU:HD21	1.91	0.53
1:n:736:ASN:HB3	1:n:738:SER:H	1.74	0.53
2:o:980:VAL:CG1	2:o:988:ILE:HG12	2.29	0.53
2:B:936:MET:SD	2:B:1006:VAL:HG22	2.50	0.52
1:D:736:ASN:HB3	1:D:738:SER:H	1.74	0.52
1:D:805:LEU:HB3	1:n:720:ASN:O	2.07	0.52
2:E:936:MET:SD	2:E:1006:VAL:HG22	2.50	0.52
1:G:721:LEU:C	1:M:805:LEU:C	2.75	0.52
1:G:763:VAL:HG12	1:G:764:SER:H	1.73	0.52
2:H:955:PHE:HB2	2:H:986:ASN:HB3	1.90	0.52
1:J:743:LYS:CD	1:J:891:ARG:HA	2.39	0.52
1:J:747:ILE:O	1:J:886:SER:HA	2.09	0.52
1:M:891:ARG:NH1	1:M:891:ARG:HB3	2.08	0.52
2:Q:980:VAL:CG1	1:S:766:ARG:HH12	2.18	0.52
2:T:920:PHE:HB3	3:U:1060:ASP:OD2	2.09	0.52
2:T:925:ASN:HD21	2:T:1011:ASN:C	2.18	0.52
1:V:747:ILE:O	1:V:886:SER:HA	2.09	0.52
2:W:936:MET:SD	2:W:1006:VAL:HG22	2.50	0.52
1:e:763:VAL:HG12	1:e:764:SER:H	1.73	0.52
1:e:775:ASP:HA	1:h:812:ASP:OD1	2.09	0.52
2:i:936:MET:SD	2:i:1006:VAL:HG22	2.50	0.52
1:k:844:ARG:HG3	1:k:873:ILE:CD1	2.39	0.52
2:l:936:MET:SD	2:l:1006:VAL:HG22	2.50	0.52
1:n:743:LYS:CD	1:n:891:ARG:HA	2.39	0.52
2:o:920:PHE:HB3	3:p:1060:ASP:OD2	2.09	0.52
2:o:936:MET:SD	2:o:1006:VAL:HG22	2.50	0.52
1:A:721:LEU:C	1:G:805:LEU:C	2.75	0.52
1:D:717:LEU:HD12	1:J:805:LEU:HD22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:775:ASP:HA	1:G:812:ASP:OD1	2.09	0.52
1:D:819:ASN:CB	1:n:725:ARG:HH11	2.19	0.52
1:G:809:ILE:HD11	1:G:820:ILE:CD1	2.35	0.52
2:K:936:MET:SD	2:K:1006:VAL:HG22	2.50	0.52
1:M:775:ASP:HA	1:P:812:ASP:OD1	2.09	0.52
2:N:925:ASN:HD21	2:N:1011:ASN:C	2.18	0.52
2:N:936:MET:SD	2:N:1006:VAL:HG22	2.50	0.52
2:N:955:PHE:HB2	2:N:986:ASN:HB3	1.90	0.52
2:N:1028:ASP:HB2	2:N:1029:VAL:HG23	1.91	0.52
1:P:763:VAL:HG12	1:P:764:SER:H	1.73	0.52
1:S:864:SER:OG	1:V:861:GLN:O	2.25	0.52
2:Z:955:PHE:HB2	2:Z:986:ASN:HB3	1.90	0.52
2:f:936:MET:SD	2:f:1006:VAL:HG22	2.50	0.52
1:h:747:ILE:O	1:h:886:SER:HA	2.09	0.52
1:h:844:ARG:HG3	1:h:873:ILE:CD1	2.39	0.52
2:i:920:PHE:HB3	3:j:1060:ASP:OD2	2.09	0.52
1:A:747:ILE:O	1:A:886:SER:HA	2.09	0.52
1:D:787:VAL:HG22	1:D:809:ILE:CG1	2.36	0.52
1:G:747:ILE:O	1:G:886:SER:HA	2.09	0.52
2:N:944:VAL:HG22	2:N:953:PHE:HD1	1.73	0.52
2:Q:920:PHE:HB3	3:R:1060:ASP:OD2	2.09	0.52
2:Q:925:ASN:HD21	2:Q:1011:ASN:C	2.18	0.52
2:Q:1028:ASP:HB2	2:Q:1029:VAL:HG23	1.91	0.52
1:V:780:LEU:HD13	1:V:899:TYR:CD2	2.42	0.52
1:Y:717:LEU:HD12	1:e:805:LEU:HD22	1.91	0.52
1:Y:763:VAL:HG12	1:Y:764:SER:H	1.73	0.52
1:b:775:ASP:HA	1:e:812:ASP:OD1	2.09	0.52
1:h:809:ILE:HD11	1:h:820:ILE:CD1	2.35	0.52
1:k:736:ASN:O	1:k:739:LEU:HB2	2.10	0.52
1:n:737:PRO:HB3	1:n:775:ASP:H	1.73	0.52
1:A:743:LYS:CD	1:A:891:ARG:HA	2.39	0.52
1:A:834:PRO:O	1:A:879:ASP:HB2	2.10	0.52
1:D:834:PRO:O	1:D:879:ASP:HB2	2.10	0.52
2:E:1028:ASP:HB2	2:E:1029:VAL:HG23	1.91	0.52
1:G:834:PRO:O	1:G:879:ASP:HB2	2.10	0.52
2:H:1028:ASP:HB2	2:H:1029:VAL:HG23	1.91	0.52
1:J:736:ASN:O	1:J:739:LEU:HB2	2.10	0.52
1:J:775:ASP:HA	1:M:812:ASP:OD1	2.09	0.52
2:K:1028:ASP:HB2	2:K:1029:VAL:HG23	1.91	0.52
1:M:780:LEU:HD13	1:M:899:TYR:CD2	2.42	0.52
2:N:998:ARG:HD2	2:N:1000:ARG:HH22	1.70	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:844:ARG:HG3	1:S:873:ILE:CD1	2.39	0.52
1:V:864:SER:HG	1:Y:861:GLN:C	2.17	0.52
1:Y:780:LEU:HD13	1:Y:899:TYR:CD2	2.42	0.52
2:Z:925:ASN:HD21	2:Z:1011:ASN:C	2.18	0.52
1:e:844:ARG:HG3	1:e:873:ILE:CD1	2.39	0.52
1:h:721:LEU:CD2	1:n:805:LEU:HB2	2.30	0.52
1:h:730:ARG:O	1:k:818:VAL:HG23	2.08	0.52
1:k:742:PRO:CB	1:n:810:ARG:CD	2.87	0.52
1:k:775:ASP:HA	1:n:812:ASP:OD1	2.09	0.52
1:n:834:PRO:O	1:n:879:ASP:HB2	2.10	0.52
1:A:763:VAL:HG12	1:A:764:SER:H	1.73	0.52
1:D:721:LEU:C	1:J:805:LEU:C	2.75	0.52
1:G:736:ASN:O	1:G:739:LEU:HB2	2.10	0.52
1:G:746:MET:HE3	1:G:886:SER:HB3	1.92	0.52
2:H:936:MET:SD	2:H:1006:VAL:HG22	2.50	0.52
1:P:844:ARG:HG3	1:P:873:ILE:CD1	2.39	0.52
1:S:778:VAL:HG11	1:S:780:LEU:HD21	1.91	0.52
1:S:833:ILE:HD13	1:S:885:VAL:CG2	2.38	0.52
1:S:902:ALA:CA	2:T:1029:VAL:HG13	2.38	0.52
1:V:844:ARG:HG3	1:V:873:ILE:CD1	2.39	0.52
2:W:925:ASN:HD21	2:W:1011:ASN:C	2.18	0.52
2:W:944:VAL:HG22	2:W:953:PHE:HA	1.92	0.52
1:Y:747:ILE:O	1:Y:886:SER:HA	2.09	0.52
2:Z:936:MET:SD	2:Z:1006:VAL:HG22	2.50	0.52
1:b:717:LEU:HD12	1:h:805:LEU:HD22	1.91	0.52
2:c:925:ASN:HD21	2:c:1011:ASN:C	2.18	0.52
1:k:834:PRO:O	1:k:879:ASP:HB2	2.10	0.52
1:n:736:ASN:O	1:n:739:LEU:HB2	2.10	0.52
1:n:763:VAL:HG12	1:n:764:SER:N	2.23	0.52
2:o:944:VAL:HG22	2:o:953:PHE:HD1	1.73	0.52
1:A:717:LEU:HD12	1:G:805:LEU:HD22	1.91	0.52
2:B:944:VAL:HG22	2:B:953:PHE:HD1	1.73	0.52
1:D:736:ASN:O	1:D:739:LEU:HB2	2.10	0.52
1:G:844:ARG:HG3	1:G:873:ILE:CD1	2.39	0.52
1:J:742:PRO:CB	1:M:810:ARG:CD	2.87	0.52
2:K:925:ASN:HD21	2:K:1011:ASN:C	2.18	0.52
1:M:742:PRO:CB	1:P:810:ARG:CD	2.87	0.52
1:M:747:ILE:O	1:M:886:SER:HA	2.09	0.52
2:Q:955:PHE:HB2	2:Q:986:ASN:HB3	1.90	0.52
1:S:747:ILE:O	1:S:886:SER:HA	2.09	0.52
2:T:936:MET:SD	2:T:1006:VAL:HG22	2.50	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:944:VAL:HG22	2:T:953:PHE:HD1	1.73	0.52
1:b:742:PRO:CB	1:e:810:ARG:CD	2.87	0.52
2:c:936:MET:SD	2:c:1006:VAL:HG22	2.50	0.52
1:e:717:LEU:HD12	1:k:805:LEU:HD22	1.91	0.52
1:k:763:VAL:HG12	1:k:764:SER:H	1.73	0.52
1:k:850:MET:HG3	1:k:854:PHE:HZ	1.74	0.52
2:l:920:PHE:HB3	3:m:1060:ASP:OD2	2.09	0.52
2:l:944:VAL:HG22	2:l:953:PHE:HD1	1.74	0.52
1:n:746:MET:HE3	1:n:886:SER:HB3	1.92	0.52
1:n:893:LEU:HD23	1:n:893:LEU:N	2.25	0.52
2:o:944:VAL:HG22	2:o:953:PHE:HA	1.92	0.52
1:A:891:ARG:NH1	1:A:891:ARG:HB3	2.08	0.52
1:D:805:LEU:HD22	1:n:717:LEU:HD12	1.91	0.52
1:J:834:PRO:O	1:J:879:ASP:HB2	2.10	0.52
1:J:893:LEU:HD23	1:J:893:LEU:N	2.25	0.52
1:J:902:ALA:CA	2:K:1029:VAL:HG13	2.38	0.52
2:K:920:PHE:HB3	3:L:1060:ASP:OD2	2.09	0.52
2:K:967:ILE:HD13	2:K:973:GLU:HA	1.91	0.52
1:M:736:ASN:O	1:M:739:LEU:HB2	2.10	0.52
1:M:901:LEU:HD21	2:N:909:LYS:HA	1.92	0.52
2:N:920:PHE:HB3	3:O:1060:ASP:OD2	2.09	0.52
2:N:967:ILE:HD13	2:N:973:GLU:HA	1.91	0.52
1:S:736:ASN:O	1:S:739:LEU:HB2	2.10	0.52
1:S:780:LEU:HD13	1:S:895:PHE:HB2	1.90	0.52
1:S:817:ILE:O	1:S:818:VAL:HB	2.10	0.52
1:V:736:ASN:O	1:V:739:LEU:HB2	2.10	0.52
2:W:929:VAL:HG22	2:W:1009:ARG:CG	2.23	0.52
2:c:944:VAL:HG22	2:c:953:PHE:HA	1.92	0.52
1:e:736:ASN:HB3	1:e:738:SER:H	1.74	0.52
2:f:925:ASN:HD21	2:f:1011:ASN:C	2.18	0.52
1:h:834:PRO:O	1:h:879:ASP:HB2	2.10	0.52
1:h:850:MET:HG3	1:h:854:PHE:HZ	1.74	0.52
2:i:944:VAL:HG22	2:i:953:PHE:HA	1.92	0.52
1:k:746:MET:HE3	1:k:886:SER:HB3	1.92	0.52
1:n:778:VAL:HG11	1:n:780:LEU:HD21	1.91	0.52
1:n:844:ARG:HG3	1:n:873:ILE:CD1	2.39	0.52
1:n:902:ALA:CA	2:o:1029:VAL:HG13	2.38	0.52
2:o:928:TYR:HH	2:o:946:ASP:HB3	1.75	0.52
1:D:844:ARG:HG3	1:D:873:ILE:CD1	2.39	0.52
2:E:967:ILE:HD13	2:E:973:GLU:HA	1.91	0.52
1:G:893:LEU:HD23	1:G:893:LEU:N	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:944:VAL:HG22	2:H:953:PHE:HA	1.92	0.52
1:b:787:VAL:HG22	1:b:809:ILE:CG1	2.36	0.52
1:b:901:LEU:HD21	2:c:909:LYS:HA	1.92	0.52
1:e:742:PRO:CB	1:h:810:ARG:CD	2.87	0.52
1:e:802:VAL:HG12	1:e:833:ILE:O	2.10	0.52
1:h:736:ASN:HB3	1:h:738:SER:H	1.74	0.52
1:h:742:PRO:CB	1:k:810:ARG:CD	2.87	0.52
1:h:901:LEU:HD21	2:i:909:LYS:HA	1.92	0.52
2:i:925:ASN:HD21	2:i:1011:ASN:C	2.18	0.52
1:k:777:LEU:HB3	2:l:916:LYS:HZ3	1.73	0.52
2:B:955:PHE:HB2	2:B:986:ASN:HB3	1.90	0.52
1:D:809:ILE:HD11	1:D:820:ILE:CD1	2.35	0.52
1:D:885:VAL:HG22	1:D:886:SER:N	2.16	0.52
2:E:925:ASN:HD21	2:E:1011:ASN:C	2.18	0.52
1:G:901:LEU:HD21	2:H:909:LYS:HA	1.92	0.52
2:H:967:ILE:HD13	2:H:973:GLU:HA	1.92	0.52
1:J:778:VAL:HG11	1:J:780:LEU:HD21	1.91	0.52
1:J:844:ARG:HG3	1:J:873:ILE:CD1	2.39	0.52
2:Q:944:VAL:HG22	2:Q:953:PHE:HA	1.92	0.52
2:Q:967:ILE:HD13	2:Q:973:GLU:HA	1.91	0.52
2:T:1028:ASP:HB2	2:T:1029:VAL:HG23	1.91	0.52
1:V:775:ASP:HA	1:Y:812:ASP:OD1	2.09	0.52
2:W:1009:ARG:HG3	2:W:1010:ASN:O	2.10	0.52
1:Y:844:ARG:HG3	1:Y:873:ILE:CD1	2.39	0.52
1:e:817:ILE:O	1:e:818:VAL:HB	2.10	0.52
1:h:775:ASP:HA	1:k:812:ASP:OD1	2.09	0.52
2:i:944:VAL:HG22	2:i:953:PHE:HD1	1.73	0.52
1:k:809:ILE:HD11	1:k:820:ILE:CD1	2.35	0.52
2:l:1009:ARG:HG3	2:l:1010:ASN:O	2.10	0.52
1:n:850:MET:HG3	1:n:854:PHE:HZ	1.75	0.52
2:o:1009:ARG:HG3	2:o:1010:ASN:O	2.10	0.52
1:A:736:ASN:HB3	1:A:738:SER:H	1.74	0.52
1:A:778:VAL:HG11	1:A:780:LEU:HD21	1.91	0.52
1:A:805:LEU:HD22	1:k:717:LEU:HD12	1.91	0.52
2:B:905:ALA:HB3	2:B:908:LYS:HB2	1.92	0.52
2:B:925:ASN:HD21	2:B:1011:ASN:C	2.18	0.52
2:B:967:ILE:HD13	2:B:973:GLU:HA	1.91	0.52
1:D:809:ILE:CD1	1:D:820:ILE:HG21	2.34	0.52
2:E:928:TYR:CE1	2:E:945:TRP:HA	2.45	0.52
1:G:721:LEU:CD2	1:M:805:LEU:HB2	2.30	0.52
1:G:778:VAL:HG11	1:G:780:LEU:HD21	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:905:ALA:HB3	2:H:908:LYS:HB2	1.92	0.52
2:H:925:ASN:HD21	2:H:1011:ASN:C	2.18	0.52
1:J:780:LEU:HD13	1:J:899:TYR:CD2	2.42	0.52
1:J:787:VAL:HG12	1:J:788:ASP:N	2.22	0.52
1:J:875:PRO:O	1:J:876:THR:HG23	2.10	0.52
1:J:901:LEU:HD21	2:K:909:LYS:HA	1.92	0.52
2:N:944:VAL:HG22	2:N:953:PHE:HA	1.92	0.52
1:P:828:LEU:HB3	1:S:754:GLU:HB2	1.92	0.52
1:P:891:ARG:NH1	1:P:891:ARG:HB3	2.08	0.52
1:S:828:LEU:HB3	1:V:754:GLU:HB2	1.92	0.52
2:T:998:ARG:HD2	2:T:1000:ARG:HH22	1.70	0.52
1:V:817:ILE:O	1:V:818:VAL:HB	2.10	0.52
1:V:833:ILE:HD13	1:V:885:VAL:CG2	2.38	0.52
1:V:875:PRO:O	1:V:876:THR:HG23	2.10	0.52
2:W:1028:ASP:HB2	2:W:1029:VAL:HG23	1.91	0.52
1:Y:901:LEU:HD21	2:Z:909:LYS:HA	1.92	0.52
1:b:736:ASN:O	1:b:739:LEU:HB2	2.10	0.52
2:c:905:ALA:HB3	2:c:908:LYS:HB2	1.92	0.52
2:c:944:VAL:HG22	2:c:953:PHE:HD1	1.73	0.52
1:e:787:VAL:HG22	1:e:809:ILE:CG1	2.36	0.52
1:e:901:LEU:HD21	2:f:909:LYS:HA	1.92	0.52
2:i:1009:ARG:HG3	2:i:1010:ASN:O	2.10	0.52
1:k:747:ILE:O	1:k:886:SER:HA	2.09	0.52
2:l:925:ASN:HD21	2:l:1011:ASN:C	2.18	0.52
1:A:736:ASN:O	1:A:739:LEU:HB2	2.10	0.51
2:B:1009:ARG:HG3	2:B:1010:ASN:O	2.10	0.51
2:B:1028:ASP:HB2	2:B:1029:VAL:HG23	1.91	0.51
1:D:901:LEU:HD21	2:E:909:LYS:HA	1.92	0.51
2:E:944:VAL:HG22	2:E:953:PHE:HA	1.92	0.51
2:E:955:PHE:HB2	2:E:986:ASN:HB3	1.90	0.51
1:G:817:ILE:O	1:G:818:VAL:HB	2.10	0.51
1:G:875:PRO:O	1:G:876:THR:HG23	2.11	0.51
1:J:746:MET:HE3	1:J:886:SER:HB3	1.92	0.51
1:M:778:VAL:HG11	1:M:780:LEU:HD21	1.91	0.51
1:M:828:LEU:HB3	1:P:754:GLU:HB2	1.92	0.51
1:M:834:PRO:O	1:M:879:ASP:HB2	2.10	0.51
1:M:844:ARG:HG3	1:M:873:ILE:CD1	2.39	0.51
1:M:875:PRO:O	1:M:876:THR:HG23	2.10	0.51
1:P:778:VAL:HG11	1:P:780:LEU:HD21	1.91	0.51
1:P:901:LEU:HD21	2:Q:909:LYS:HA	1.92	0.51
2:Q:936:MET:SD	2:Q:1006:VAL:HG22	2.50	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:905:ALA:HB3	2:T:908:LYS:HB2	1.92	0.51
2:T:928:TYR:CE1	2:T:945:TRP:HA	2.45	0.51
1:V:802:VAL:HG12	1:V:833:ILE:O	2.10	0.51
1:Y:802:VAL:HG12	1:Y:833:ILE:O	2.10	0.51
2:Z:905:ALA:HB3	2:Z:908:LYS:HB2	1.92	0.51
1:e:834:PRO:O	1:e:879:ASP:HB2	2.10	0.51
1:e:885:VAL:HG22	1:e:886:SER:N	2.17	0.51
2:o:925:ASN:HD21	2:o:1011:ASN:C	2.18	0.51
2:o:928:TYR:CE1	2:o:945:TRP:HA	2.45	0.51
1:A:850:MET:HG3	1:A:854:PHE:HZ	1.74	0.51
1:D:747:ILE:O	1:D:886:SER:HA	2.09	0.51
2:E:905:ALA:HB3	2:E:908:LYS:HB2	1.92	0.51
2:E:980:VAL:CG1	1:G:766:ARG:HH12	2.18	0.51
1:J:817:ILE:O	1:J:818:VAL:HB	2.10	0.51
2:K:905:ALA:HB3	2:K:908:LYS:HB2	1.92	0.51
2:N:928:TYR:CE1	2:N:945:TRP:HA	2.45	0.51
1:P:875:PRO:O	1:P:876:THR:HG23	2.10	0.51
1:S:775:ASP:HA	1:V:812:ASP:OD1	2.09	0.51
1:S:901:LEU:HD21	2:T:909:LYS:HA	1.92	0.51
2:T:967:ILE:HD13	2:T:973:GLU:HA	1.91	0.51
1:V:721:LEU:CD2	1:b:805:LEU:C	2.75	0.51
1:V:901:LEU:HD21	2:W:909:LYS:HA	1.92	0.51
1:Y:746:MET:HE3	1:Y:886:SER:HB3	1.92	0.51
2:Z:1024:THR:HG22	2:Z:1025:ALA:N	2.20	0.51
1:b:802:VAL:HG12	1:b:833:ILE:O	2.10	0.51
1:b:817:ILE:O	1:b:818:VAL:HB	2.10	0.51
1:e:736:ASN:O	1:e:739:LEU:HB2	2.10	0.51
1:e:850:MET:HG3	1:e:854:PHE:HZ	1.75	0.51
1:h:717:LEU:HD12	1:n:805:LEU:HD22	1.91	0.51
1:h:721:LEU:C	1:n:805:LEU:C	2.75	0.51
2:i:905:ALA:HB3	2:i:908:LYS:HB2	1.92	0.51
2:o:955:PHE:HB2	2:o:986:ASN:HB3	1.90	0.51
1:A:844:ARG:HG3	1:A:873:ILE:CD1	2.39	0.51
1:A:901:LEU:HD21	2:B:909:LYS:HA	1.92	0.51
2:B:1029:VAL:CG1	2:B:1030:ARG:H	2.24	0.51
1:D:875:PRO:O	1:D:876:THR:HG23	2.11	0.51
2:H:920:PHE:HB3	3:I:1060:ASP:OD2	2.09	0.51
1:P:817:ILE:O	1:P:818:VAL:HB	2.10	0.51
2:Q:944:VAL:HG22	2:Q:953:PHE:HD1	1.74	0.51
2:T:929:VAL:CG2	2:T:1009:ARG:HG2	2.23	0.51
1:V:828:LEU:HB3	1:Y:754:GLU:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:905:ALA:HB3	2:W:908:LYS:HB2	1.92	0.51
1:b:746:MET:HE3	1:b:886:SER:HB3	1.92	0.51
1:b:875:PRO:O	1:b:876:THR:HG23	2.11	0.51
2:f:928:TYR:CE1	2:f:945:TRP:HA	2.46	0.51
2:f:1009:ARG:HG3	2:f:1010:ASN:O	2.10	0.51
1:k:901:LEU:HD21	2:l:909:LYS:HA	1.92	0.51
2:l:905:ALA:HB3	2:l:908:LYS:HB2	1.92	0.51
2:o:905:ALA:HB3	2:o:908:LYS:HB2	1.92	0.51
2:B:908:LYS:O	2:B:911:ILE:HG23	2.11	0.51
1:D:778:VAL:HG11	1:D:780:LEU:HD21	1.91	0.51
1:D:778:VAL:HG13	2:E:1024:THR:CG2	2.41	0.51
1:D:893:LEU:HD23	1:D:893:LEU:N	2.25	0.51
2:E:1009:ARG:HG3	2:E:1010:ASN:O	2.10	0.51
1:G:775:ASP:HA	1:J:812:ASP:OD1	2.09	0.51
1:J:809:ILE:CD1	1:J:820:ILE:HG21	2.34	0.51
2:K:928:TYR:CE1	2:K:945:TRP:HA	2.46	0.51
2:K:998:ARG:HD2	2:K:1000:ARG:HH22	1.70	0.51
1:M:787:VAL:HG22	1:M:809:ILE:CG1	2.36	0.51
1:P:775:ASP:HA	1:S:812:ASP:OD1	2.09	0.51
1:P:829:GLY:HA3	1:S:753:THR:HG23	1.85	0.51
1:P:833:ILE:CG2	1:P:834:PRO:HD2	2.41	0.51
2:Q:1009:ARG:HG3	2:Q:1010:ASN:O	2.10	0.51
1:S:875:PRO:O	1:S:876:THR:HG23	2.10	0.51
1:V:833:ILE:CG2	1:V:834:PRO:HD2	2.41	0.51
1:V:902:ALA:CA	2:W:1029:VAL:HG13	2.38	0.51
1:Y:833:ILE:CG2	1:Y:834:PRO:HD2	2.41	0.51
2:f:905:ALA:HB3	2:f:908:LYS:HB2	1.92	0.51
1:h:802:VAL:HG12	1:h:833:ILE:O	2.10	0.51
2:i:908:LYS:O	2:i:911:ILE:HG23	2.11	0.51
1:k:893:LEU:HD23	1:k:893:LEU:N	2.25	0.51
2:l:908:LYS:O	2:l:911:ILE:HG23	2.11	0.51
2:l:928:TYR:CE1	2:l:945:TRP:HA	2.45	0.51
1:n:715:SER:O	1:n:718:ALA:HB3	2.11	0.51
1:n:901:LEU:HD21	2:o:909:LYS:HA	1.92	0.51
2:o:1028:ASP:HB2	2:o:1029:VAL:HG23	1.91	0.51
1:A:875:PRO:O	1:A:876:THR:HG23	2.10	0.51
2:B:944:VAL:HG22	2:B:953:PHE:HA	1.92	0.51
1:D:736:ASN:CB	1:D:739:LEU:HG	2.26	0.51
1:J:715:SER:O	1:J:718:ALA:HB3	2.11	0.51
1:J:828:LEU:HB3	1:M:754:GLU:HB2	1.92	0.51
2:K:908:LYS:O	2:K:911:ILE:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:720:ASN:H	1:S:805:LEU:HD21	1.67	0.51
1:M:833:ILE:CG2	1:M:834:PRO:HD2	2.41	0.51
2:N:1009:ARG:HG3	2:N:1010:ASN:O	2.10	0.51
1:P:811:ASN:HB3	1:P:816:THR:HB	1.91	0.51
2:Q:905:ALA:HB3	2:Q:908:LYS:HB2	1.92	0.51
1:S:811:ASN:HB3	1:S:816:THR:HB	1.91	0.51
1:S:833:ILE:CG2	1:S:834:PRO:HD2	2.41	0.51
2:T:908:LYS:O	2:T:911:ILE:HG23	2.11	0.51
1:V:778:VAL:HG13	2:W:1024:THR:CG2	2.41	0.51
1:V:780:LEU:HD13	1:V:895:PHE:HB2	1.90	0.51
1:V:809:ILE:CD1	1:V:820:ILE:HG21	2.34	0.51
1:Y:775:ASP:HA	1:b:812:ASP:OD1	2.09	0.51
1:Y:778:VAL:HG13	2:Z:1024:THR:CG2	2.41	0.51
1:Y:828:LEU:HB3	1:b:754:GLU:HB2	1.92	0.51
2:Z:908:LYS:O	2:Z:911:ILE:HG23	2.11	0.51
2:Z:1028:ASP:HB2	2:Z:1029:VAL:HG23	1.91	0.51
1:b:725:ARG:HH11	1:h:819:ASN:CB	2.19	0.51
1:b:833:ILE:CG2	1:b:834:PRO:HD2	2.41	0.51
2:f:908:LYS:O	2:f:911:ILE:HG23	2.11	0.51
2:f:944:VAL:HG22	2:f:953:PHE:HD1	1.73	0.51
1:h:736:ASN:O	1:h:739:LEU:HB2	2.10	0.51
1:h:817:ILE:O	1:h:818:VAL:HB	2.10	0.51
1:n:809:ILE:HD11	1:n:820:ILE:CD1	2.35	0.51
2:o:908:LYS:O	2:o:911:ILE:HG23	2.11	0.51
2:o:967:ILE:HD13	2:o:973:GLU:HA	1.91	0.51
1:A:715:SER:O	1:A:718:ALA:HB3	2.11	0.51
1:A:754:GLU:HB2	1:n:828:LEU:HB3	1.92	0.51
2:E:1029:VAL:CG1	2:E:1030:ARG:H	2.24	0.51
1:G:778:VAL:HG13	2:H:1024:THR:CG2	2.41	0.51
1:J:725:ARG:HH11	1:P:819:ASN:CB	2.19	0.51
1:J:787:VAL:HG22	1:J:809:ILE:CG1	2.36	0.51
1:J:833:ILE:CG2	1:J:834:PRO:HD2	2.41	0.51
2:K:955:PHE:HB2	2:K:986:ASN:HB3	1.90	0.51
2:N:965:TYR:OH	1:P:752:GLY:CA	2.58	0.51
1:S:767:VAL:HG23	1:S:785:SER:HB2	1.88	0.51
1:V:746:MET:HE3	1:V:886:SER:HB3	1.92	0.51
2:W:908:LYS:O	2:W:911:ILE:HG23	2.11	0.51
2:W:928:TYR:CE1	2:W:945:TRP:HA	2.45	0.51
1:Y:833:ILE:HD13	1:Y:885:VAL:CG2	2.38	0.51
1:b:834:PRO:O	1:b:879:ASP:HB2	2.10	0.51
2:c:908:LYS:O	2:c:911:ILE:HG23	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:c:1009:ARG:HG3	2:c:1010:ASN:O	2.10	0.51
1:n:747:ILE:O	1:n:886:SER:HA	2.09	0.51
1:A:833:ILE:CG2	1:A:834:PRO:HD2	2.41	0.51
2:B:928:TYR:CE1	2:B:945:TRP:HA	2.45	0.51
2:B:965:TYR:O	2:B:997:TRP:HE3	1.94	0.51
1:D:817:ILE:O	1:D:818:VAL:HB	2.10	0.51
1:D:833:ILE:CG2	1:D:834:PRO:HD2	2.41	0.51
2:H:1024:THR:HG22	2:H:1025:ALA:N	2.20	0.51
2:N:905:ALA:HB3	2:N:908:LYS:HB2	1.92	0.51
1:P:834:PRO:O	1:P:879:ASP:HB2	2.10	0.51
2:Q:908:LYS:O	2:Q:911:ILE:HG23	2.11	0.51
1:S:893:LEU:HD23	1:S:893:LEU:N	2.25	0.51
1:V:811:ASN:HB3	1:V:816:THR:HB	1.91	0.51
1:V:893:LEU:HD23	1:V:893:LEU:N	2.25	0.51
1:Y:817:ILE:O	1:Y:818:VAL:HB	2.10	0.51
1:Y:875:PRO:O	1:Y:876:THR:HG23	2.11	0.51
2:Z:944:VAL:HG22	2:Z:953:PHE:HA	1.92	0.51
2:Z:965:TYR:O	2:Z:997:TRP:HE3	1.94	0.51
1:b:844:ARG:HG3	1:b:873:ILE:CD1	2.39	0.51
1:b:850:MET:HG3	1:b:854:PHE:HZ	1.75	0.51
2:c:980:VAL:CG1	1:e:766:ARG:HH12	2.18	0.51
1:e:833:ILE:CG2	1:e:834:PRO:HD2	2.41	0.51
2:f:1029:VAL:HG12	2:f:1030:ARG:N	2.24	0.51
2:f:1029:VAL:CG1	2:f:1030:ARG:H	2.24	0.51
1:h:893:LEU:HD23	1:h:893:LEU:N	2.25	0.51
2:i:1029:VAL:HG12	2:i:1030:ARG:N	2.24	0.51
1:k:802:VAL:HG12	1:k:833:ILE:O	2.10	0.51
1:k:833:ILE:CG2	1:k:834:PRO:HD2	2.41	0.51
1:k:840:HIS:HB3	1:k:843:GLU:OE1	2.11	0.51
1:n:802:VAL:HG12	1:n:833:ILE:O	2.10	0.51
1:n:891:ARG:NH1	1:n:891:ARG:HB3	2.08	0.51
2:o:965:TYR:O	2:o:997:TRP:HE3	1.94	0.51
1:A:778:VAL:HG13	2:B:1024:THR:CG2	2.41	0.51
2:B:1029:VAL:HG12	2:B:1030:ARG:N	2.24	0.51
1:D:840:HIS:HB3	1:D:843:GLU:OE1	2.11	0.51
1:D:850:MET:HG3	1:D:854:PHE:HZ	1.75	0.51
2:E:1024:THR:HG22	2:E:1025:ALA:N	2.20	0.51
1:G:828:LEU:HB3	1:J:754:GLU:HB2	1.92	0.51
1:G:840:HIS:HB3	1:G:843:GLU:OE1	2.11	0.51
2:H:1009:ARG:HG3	2:H:1010:ASN:O	2.10	0.51
1:J:840:HIS:HB3	1:J:843:GLU:OE1	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:715:SER:O	1:M:718:ALA:HB3	2.11	0.51
2:N:908:LYS:O	2:N:911:ILE:HG23	2.11	0.51
1:P:767:VAL:HG23	1:P:785:SER:HB2	1.88	0.51
1:P:802:VAL:HG12	1:P:833:ILE:O	2.10	0.51
2:T:1009:ARG:HG3	2:T:1010:ASN:O	2.10	0.51
3:U:1051:VAL:HG12	3:U:1052:PRO:N	2.26	0.51
2:Z:1009:ARG:HG3	2:Z:1010:ASN:O	2.10	0.51
1:b:854:PHE:O	1:b:858:LEU:HD23	2.11	0.51
1:e:747:ILE:O	1:e:886:SER:HA	2.09	0.51
1:e:875:PRO:O	1:e:876:THR:HG23	2.10	0.51
2:i:928:TYR:CE1	2:i:945:TRP:HA	2.45	0.51
2:i:936:MET:HE1	2:i:1004:LYS:CB	2.40	0.51
1:k:854:PHE:O	1:k:858:LEU:HD23	2.11	0.51
1:k:875:PRO:O	1:k:876:THR:HG23	2.10	0.51
1:n:833:ILE:CG2	1:n:834:PRO:HD2	2.41	0.51
2:o:1029:VAL:HG12	2:o:1030:ARG:N	2.24	0.51
2:o:1029:VAL:CG1	2:o:1030:ARG:H	2.24	0.51
1:A:809:ILE:HD11	1:A:820:ILE:CD1	2.35	0.51
1:A:840:HIS:HB3	1:A:843:GLU:OE1	2.11	0.51
2:E:908:LYS:O	2:E:911:ILE:HG23	2.11	0.51
1:G:715:SER:O	1:G:718:ALA:HB3	2.11	0.51
2:H:928:TYR:CE1	2:H:945:TRP:HA	2.46	0.51
1:J:721:LEU:CD2	1:P:805:LEU:C	2.75	0.51
2:K:928:TYR:O	3:L:1053:VAL:HG23	2.11	0.51
2:K:1024:THR:HG22	2:K:1025:ALA:N	2.20	0.51
1:M:840:HIS:HB3	1:M:843:GLU:OE1	2.11	0.51
2:N:980:VAL:CG1	1:P:766:ARG:HH12	2.18	0.51
1:S:778:VAL:HG13	2:T:1024:THR:CG2	2.41	0.51
2:W:967:ILE:HD13	2:W:973:GLU:HA	1.91	0.51
1:b:828:LEU:HB3	1:e:754:GLU:HB2	1.92	0.51
2:c:928:TYR:CE1	2:c:945:TRP:HA	2.46	0.51
2:c:965:TYR:O	2:c:997:TRP:HE3	1.94	0.51
2:c:1029:VAL:HG12	2:c:1030:ARG:N	2.24	0.51
3:d:1051:VAL:HG12	3:d:1052:PRO:N	2.26	0.51
2:l:974:THR:HG22	2:l:975:LEU:H	1.76	0.51
2:l:1029:VAL:HG12	2:l:1030:ARG:N	2.24	0.51
1:n:840:HIS:HB3	1:n:843:GLU:OE1	2.11	0.51
1:A:902:ALA:CA	2:B:1029:VAL:HG13	2.38	0.51
1:G:721:LEU:CD2	1:M:805:LEU:C	2.75	0.51
1:G:833:ILE:CG2	1:G:834:PRO:HD2	2.41	0.51
2:N:965:TYR:O	2:N:997:TRP:HE3	1.94	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:736:ASN:O	1:P:739:LEU:HB2	2.10	0.51
2:Q:928:TYR:O	3:R:1053:VAL:HG23	2.11	0.51
1:S:802:VAL:HG12	1:S:833:ILE:O	2.10	0.51
2:T:928:TYR:O	3:U:1053:VAL:HG23	2.11	0.51
2:T:944:VAL:HG22	2:T:953:PHE:HA	1.92	0.51
2:W:965:TYR:O	2:W:997:TRP:HE3	1.94	0.51
1:Y:850:MET:HG3	1:Y:854:PHE:HZ	1.75	0.51
2:Z:929:VAL:HG22	2:Z:1009:ARG:CG	2.23	0.51
2:Z:1029:VAL:HG12	2:Z:1030:ARG:N	2.24	0.51
1:b:778:VAL:HG13	2:c:1024:THR:CG2	2.41	0.51
2:c:1028:ASP:HB2	2:c:1029:VAL:HG23	1.91	0.51
1:e:721:LEU:CD2	1:k:805:LEU:HB2	2.30	0.51
1:e:746:MET:HE3	1:e:886:SER:HB3	1.92	0.51
2:f:936:MET:HE1	2:f:1004:LYS:CB	2.40	0.51
2:f:944:VAL:HG22	2:f:953:PHE:HA	1.92	0.51
2:f:965:TYR:O	2:f:997:TRP:HE3	1.94	0.51
1:h:833:ILE:CG2	1:h:834:PRO:HD2	2.41	0.51
1:h:840:HIS:HB3	1:h:843:GLU:OE1	2.11	0.51
1:h:875:PRO:O	1:h:876:THR:HG23	2.10	0.51
1:k:715:SER:O	1:k:718:ALA:HB3	2.11	0.51
1:k:828:LEU:HB3	1:n:754:GLU:HB2	1.92	0.51
2:l:1028:ASP:HB2	2:l:1029:VAL:HG23	1.91	0.51
1:n:862:LEU:O	1:n:866:ALA:HB2	2.11	0.51
1:n:875:PRO:O	1:n:876:THR:HG23	2.10	0.51
1:A:746:MET:HE3	1:A:886:SER:HB3	1.92	0.50
1:A:828:LEU:HB3	1:D:754:GLU:HB2	1.92	0.50
1:A:890:ALA:C	1:n:726:LEU:HD12	2.37	0.50
1:D:828:LEU:HB3	1:G:754:GLU:HB2	1.92	0.50
2:H:908:LYS:O	2:H:911:ILE:HG23	2.11	0.50
1:J:778:VAL:HG13	2:K:1024:THR:CG2	2.41	0.50
1:M:811:ASN:HB3	1:M:816:THR:HB	1.91	0.50
2:N:1029:VAL:CG1	2:N:1030:ARG:H	2.24	0.50
2:Q:928:TYR:CE1	2:Q:945:TRP:HA	2.45	0.50
1:S:746:MET:HE3	1:S:886:SER:HB3	1.92	0.50
1:S:854:PHE:O	1:S:858:LEU:HD23	2.11	0.50
1:V:715:SER:O	1:V:718:ALA:HB3	2.11	0.50
1:V:854:PHE:O	1:V:858:LEU:HD23	2.11	0.50
2:W:928:TYR:O	3:X:1053:VAL:HG23	2.11	0.50
1:Y:715:SER:O	1:Y:718:ALA:HB3	2.11	0.50
1:Y:736:ASN:O	1:Y:739:LEU:HB2	2.10	0.50
1:Y:787:VAL:HG22	1:Y:809:ILE:CG1	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:720:ASN:H	1:h:805:LEU:HD21	1.67	0.50
1:b:833:ILE:HD13	1:b:885:VAL:CG2	2.38	0.50
1:b:901:LEU:HG	1:b:902:ALA:CB	2.39	0.50
1:h:862:LEU:O	1:h:866:ALA:HB2	2.12	0.50
2:i:974:THR:HG22	2:i:975:LEU:H	1.76	0.50
2:l:944:VAL:HG22	2:l:953:PHE:HA	1.92	0.50
1:n:854:PHE:O	1:n:858:LEU:HD23	2.11	0.50
2:o:974:THR:HG22	2:o:975:LEU:H	1.76	0.50
1:D:715:SER:O	1:D:718:ALA:HB3	2.11	0.50
1:D:844:ARG:CZ	1:D:870:TYR:CZ	2.95	0.50
1:D:854:PHE:O	1:D:858:LEU:HD23	2.11	0.50
2:E:965:TYR:O	2:E:997:TRP:HE3	1.94	0.50
2:E:1029:VAL:HG12	2:E:1030:ARG:N	2.24	0.50
2:K:965:TYR:O	2:K:997:TRP:HE3	1.94	0.50
3:L:1051:VAL:HG12	3:L:1052:PRO:N	2.26	0.50
1:M:817:ILE:O	1:M:818:VAL:HB	2.10	0.50
1:M:850:MET:HG3	1:M:854:PHE:HZ	1.74	0.50
2:N:928:TYR:O	3:O:1053:VAL:HG23	2.11	0.50
1:P:840:HIS:HB3	1:P:843:GLU:OE1	2.11	0.50
1:P:850:MET:HG3	1:P:854:PHE:HZ	1.74	0.50
1:S:829:GLY:HA3	1:V:753:THR:HG23	1.85	0.50
1:S:834:PRO:O	1:S:879:ASP:HB2	2.10	0.50
1:S:850:MET:HG3	1:S:854:PHE:HZ	1.75	0.50
1:V:850:MET:HG3	1:V:854:PHE:HZ	1.74	0.50
1:V:862:LEU:O	1:V:866:ALA:HB2	2.11	0.50
1:Y:767:VAL:HG23	1:Y:785:SER:HB2	1.87	0.50
1:Y:834:PRO:O	1:Y:879:ASP:HB2	2.10	0.50
1:Y:862:LEU:O	1:Y:866:ALA:HB2	2.11	0.50
1:Y:893:LEU:HD23	1:Y:893:LEU:N	2.25	0.50
2:Z:928:TYR:CE1	2:Z:945:TRP:HA	2.45	0.50
1:b:715:SER:O	1:b:718:ALA:HB3	2.11	0.50
1:e:806:TRP:CD1	1:e:887:ILE:CG1	2.94	0.50
2:i:1028:ASP:HB2	2:i:1029:VAL:HG23	1.91	0.50
1:k:844:ARG:CZ	1:k:870:TYR:CZ	2.95	0.50
1:A:726:LEU:HD12	1:D:890:ALA:C	2.37	0.50
1:D:802:VAL:HG12	1:D:833:ILE:O	2.10	0.50
1:G:850:MET:HG3	1:G:854:PHE:HZ	1.75	0.50
1:J:721:LEU:HD13	1:P:822:SER:O	2.12	0.50
2:K:1009:ARG:HG3	2:K:1010:ASN:O	2.10	0.50
1:M:746:MET:HE3	1:M:886:SER:HB3	1.92	0.50
1:M:779:ARG:HD3	2:N:1025:ALA:HA	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:802:VAL:HG12	1:M:833:ILE:O	2.10	0.50
2:Q:1029:VAL:CG1	2:Q:1030:ARG:H	2.24	0.50
1:S:715:SER:O	1:S:718:ALA:HB3	2.11	0.50
1:S:862:LEU:O	1:S:866:ALA:HB2	2.11	0.50
1:V:834:PRO:O	1:V:879:ASP:HB2	2.10	0.50
1:b:862:LEU:O	1:b:866:ALA:HB2	2.11	0.50
2:c:929:VAL:HG22	2:c:1009:ARG:CG	2.23	0.50
2:c:936:MET:HE1	2:c:1004:LYS:CB	2.40	0.50
2:c:1029:VAL:CG1	2:c:1030:ARG:H	2.24	0.50
1:e:854:PHE:O	1:e:858:LEU:HD23	2.11	0.50
2:f:967:ILE:HD13	2:f:973:GLU:HA	1.91	0.50
2:f:974:THR:HG22	2:f:975:LEU:H	1.76	0.50
2:f:998:ARG:HD2	2:f:1000:ARG:HH21	1.73	0.50
1:h:828:LEU:HB3	1:k:754:GLU:HB2	1.92	0.50
1:k:887:ILE:HG22	1:k:888:PHE:C	2.37	0.50
2:l:967:ILE:HD13	2:l:973:GLU:HA	1.91	0.50
1:n:778:VAL:HG13	2:o:1024:THR:CG2	2.41	0.50
1:n:844:ARG:CZ	1:n:870:TYR:CZ	2.95	0.50
1:A:766:ARG:HH12	2:o:980:VAL:CG1	2.18	0.50
2:B:965:TYR:HA	2:B:976:PRO:HD3	1.93	0.50
2:B:974:THR:HG22	2:B:975:LEU:H	1.76	0.50
2:B:1024:THR:HG22	2:B:1025:ALA:N	2.20	0.50
1:D:727:LYS:HE3	1:D:728:ALA:O	2.12	0.50
1:G:844:ARG:CZ	1:G:870:TYR:CZ	2.95	0.50
2:H:998:ARG:HD2	2:H:1000:ARG:HH22	1.70	0.50
1:J:802:VAL:HG12	1:J:833:ILE:O	2.10	0.50
1:J:844:ARG:CZ	1:J:870:TYR:CZ	2.95	0.50
2:K:965:TYR:OH	1:M:752:GLY:CA	2.58	0.50
2:N:930:MET:HE3	3:O:1053:VAL:CB	2.42	0.50
3:O:1051:VAL:HG12	3:O:1052:PRO:N	2.26	0.50
1:P:862:LEU:O	1:P:866:ALA:HB2	2.11	0.50
1:P:893:LEU:HD23	1:P:893:LEU:N	2.25	0.50
2:Q:930:MET:HE3	3:R:1053:VAL:CB	2.42	0.50
1:S:787:VAL:HG22	1:S:809:ILE:CG1	2.36	0.50
2:T:965:TYR:O	2:T:997:TRP:HE3	1.94	0.50
2:W:930:MET:HE3	3:X:1053:VAL:CB	2.42	0.50
1:Y:780:LEU:HD13	1:Y:895:PHE:HB2	1.89	0.50
1:Y:811:ASN:HB3	1:Y:816:THR:HB	1.91	0.50
1:b:887:ILE:HG22	1:b:888:PHE:C	2.37	0.50
1:h:844:ARG:CZ	1:h:870:TYR:CZ	2.95	0.50
2:i:965:TYR:O	2:i:997:TRP:HE3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:817:ILE:O	1:k:818:VAL:HB	2.10	0.50
1:A:727:LYS:HE3	1:A:728:ALA:O	2.12	0.50
2:B:930:MET:HE3	3:C:1053:VAL:CB	2.42	0.50
1:D:726:LEU:HD12	1:G:890:ALA:C	2.37	0.50
1:D:822:SER:O	1:n:721:LEU:HD13	2.12	0.50
2:E:928:TYR:O	3:F:1053:VAL:HG23	2.11	0.50
2:E:930:MET:HE3	3:F:1053:VAL:CB	2.42	0.50
2:E:965:TYR:HA	2:E:976:PRO:HD3	1.93	0.50
1:G:721:LEU:HD13	1:M:822:SER:O	2.12	0.50
1:G:727:LYS:HE3	1:G:728:ALA:O	2.12	0.50
1:G:802:VAL:HG12	1:G:833:ILE:O	2.10	0.50
2:H:965:TYR:O	2:H:997:TRP:HE3	1.94	0.50
1:J:850:MET:HG3	1:J:854:PHE:HZ	1.75	0.50
1:M:854:PHE:O	1:M:858:LEU:HD23	2.11	0.50
1:P:778:VAL:HG13	2:Q:1024:THR:CG2	2.41	0.50
2:Q:965:TYR:O	2:Q:997:TRP:HE3	1.94	0.50
1:S:885:VAL:HG22	1:S:886:SER:N	2.17	0.50
1:V:767:VAL:HG23	1:V:785:SER:HB2	1.88	0.50
1:V:787:VAL:HG22	1:V:809:ILE:CG1	2.36	0.50
2:Z:928:TYR:O	3:a:1053:VAL:HG23	2.11	0.50
1:b:840:HIS:HB3	1:b:843:GLU:OE1	2.11	0.50
1:b:844:ARG:CZ	1:b:870:TYR:CZ	2.95	0.50
2:c:930:MET:HE3	3:d:1053:VAL:CB	2.42	0.50
2:c:1024:THR:HG22	2:c:1025:ALA:N	2.20	0.50
1:e:715:SER:O	1:e:718:ALA:HB3	2.11	0.50
1:e:779:ARG:HD3	2:f:1025:ALA:HA	1.94	0.50
1:e:828:LEU:HB3	1:h:754:GLU:HB2	1.92	0.50
1:e:833:ILE:HD13	1:e:885:VAL:CG2	2.38	0.50
1:e:840:HIS:HB3	1:e:843:GLU:OE1	2.11	0.50
1:e:887:ILE:HG22	1:e:888:PHE:C	2.37	0.50
2:f:1028:ASP:HB2	2:f:1029:VAL:HG23	1.91	0.50
2:i:967:ILE:HD13	2:i:973:GLU:HA	1.91	0.50
2:o:965:TYR:HA	2:o:976:PRO:HD3	1.93	0.50
1:A:844:ARG:CZ	1:A:870:TYR:CZ	2.95	0.50
1:G:726:LEU:HD12	1:J:890:ALA:C	2.37	0.50
2:H:965:TYR:HA	2:H:976:PRO:HD3	1.93	0.50
2:K:944:VAL:HG22	2:K:953:PHE:HA	1.92	0.50
1:M:721:LEU:CD2	1:S:805:LEU:C	2.75	0.50
1:M:778:VAL:HG13	2:N:1024:THR:CG2	2.41	0.50
1:M:902:ALA:CA	2:N:1029:VAL:HG13	2.38	0.50
1:P:787:VAL:HG22	1:P:809:ILE:CG1	2.36	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:956:PRO:HD2	2:Q:959:ALA:CB	2.42	0.50
2:Q:998:ARG:HD2	2:Q:1000:ARG:HH22	1.70	0.50
2:W:998:ARG:HD2	2:W:1000:ARG:HH22	1.70	0.50
1:Y:779:ARG:HD3	2:Z:1025:ALA:HA	1.94	0.50
1:Y:864:SER:HG	1:b:861:GLN:C	2.20	0.50
1:Y:887:ILE:HG22	1:Y:888:PHE:C	2.37	0.50
3:a:1051:VAL:HG12	3:a:1052:PRO:N	2.26	0.50
1:e:862:LEU:O	1:e:866:ALA:HB2	2.11	0.50
1:h:887:ILE:HG22	1:h:888:PHE:C	2.37	0.50
1:n:779:ARG:HD3	2:o:1025:ALA:HA	1.94	0.50
1:n:887:ILE:HG22	1:n:888:PHE:C	2.37	0.50
2:o:930:MET:HE3	3:p:1053:VAL:CB	2.42	0.50
1:A:817:ILE:O	1:A:818:VAL:HB	2.10	0.50
1:D:779:ARG:HD3	2:E:1025:ALA:HA	1.94	0.50
1:D:862:LEU:O	1:D:866:ALA:HB2	2.11	0.50
1:G:779:ARG:HD3	2:H:1025:ALA:HA	1.94	0.50
1:G:862:LEU:O	1:G:866:ALA:HB2	2.11	0.50
2:H:930:MET:HE3	3:I:1053:VAL:CB	2.42	0.50
2:H:1029:VAL:HG12	2:H:1030:ARG:N	2.24	0.50
1:J:862:LEU:O	1:J:866:ALA:HB2	2.11	0.50
2:K:930:MET:HE3	3:L:1053:VAL:CB	2.42	0.50
2:K:1029:VAL:CG1	2:K:1030:ARG:H	2.24	0.50
1:P:715:SER:O	1:P:718:ALA:HB3	2.11	0.50
1:P:809:ILE:CD1	1:P:820:ILE:HG21	2.34	0.50
3:R:1051:VAL:HG12	3:R:1052:PRO:N	2.26	0.50
1:S:779:ARG:HD3	2:T:1025:ALA:HA	1.94	0.50
1:S:822:SER:OG	1:S:889:VAL:HA	2.12	0.50
1:S:840:HIS:HB3	1:S:843:GLU:OE1	2.11	0.50
2:T:930:MET:HE3	3:U:1053:VAL:CB	2.42	0.50
2:T:1029:VAL:CG1	2:T:1030:ARG:H	2.24	0.50
3:X:1051:VAL:HG12	3:X:1052:PRO:N	2.26	0.50
1:Y:721:LEU:CD2	1:e:805:LEU:C	2.75	0.50
2:Z:936:MET:HE1	2:Z:1004:LYS:CB	2.40	0.50
2:Z:967:ILE:HD13	2:Z:973:GLU:HA	1.91	0.50
2:c:967:ILE:HD13	2:c:973:GLU:HA	1.92	0.50
1:e:778:VAL:HG13	2:f:1024:THR:CG2	2.41	0.50
2:f:930:MET:HE3	3:g:1053:VAL:CB	2.42	0.50
1:h:715:SER:O	1:h:718:ALA:HB3	2.11	0.50
1:h:779:ARG:HD3	2:i:1025:ALA:HA	1.94	0.50
1:k:778:VAL:HG13	2:l:1024:THR:CG2	2.41	0.50
2:l:965:TYR:HA	2:l:976:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:965:TYR:O	2:l:997:TRP:HE3	1.94	0.50
1:n:727:LYS:HE3	1:n:728:ALA:O	2.12	0.50
1:A:862:LEU:O	1:A:866:ALA:HB2	2.11	0.50
1:D:864:SER:HG	1:G:861:GLN:C	2.18	0.50
1:G:818:VAL:HG13	1:G:818:VAL:O	2.12	0.50
1:M:844:ARG:CZ	1:M:870:TYR:CZ	2.95	0.50
1:M:862:LEU:O	1:M:866:ALA:HB2	2.12	0.50
1:P:854:PHE:O	1:P:858:LEU:HD23	2.11	0.50
1:V:729:SER:HB2	1:Y:891:ARG:CD	2.42	0.50
1:V:887:ILE:HG22	1:V:888:PHE:C	2.37	0.50
1:Y:902:ALA:CA	2:Z:1029:VAL:HG13	2.38	0.50
2:Z:965:TYR:OH	1:b:752:GLY:CA	2.58	0.50
2:i:998:ARG:HD2	2:i:1000:ARG:HH21	1.73	0.50
1:k:726:LEU:HD22	1:n:891:ARG:NH1	2.27	0.50
1:k:779:ARG:HD3	2:l:1025:ALA:HA	1.94	0.50
1:A:802:VAL:HG12	1:A:833:ILE:O	2.10	0.50
1:A:822:SER:O	1:k:721:LEU:HD13	2.12	0.50
1:A:822:SER:OG	1:A:889:VAL:HA	2.12	0.50
2:B:965:TYR:OH	1:D:752:GLY:CA	2.58	0.50
1:D:721:LEU:CD2	1:J:805:LEU:C	2.75	0.50
1:G:778:VAL:HG22	2:H:916:LYS:HZ1	1.77	0.50
1:J:726:LEU:HD12	1:M:890:ALA:C	2.37	0.50
1:J:727:LYS:HE3	1:J:728:ALA:O	2.12	0.50
1:J:811:ASN:HB3	1:J:816:THR:HB	1.91	0.50
1:J:842:TRP:HA	1:J:842:TRP:CE3	2.47	0.50
1:P:746:MET:HE3	1:P:886:SER:HB3	1.92	0.50
1:S:721:LEU:HD13	1:Y:822:SER:O	2.12	0.50
1:V:721:LEU:HD13	1:b:822:SER:O	2.12	0.50
1:V:822:SER:OG	1:V:889:VAL:HA	2.12	0.50
1:V:829:GLY:HA3	1:Y:753:THR:HG23	1.85	0.50
1:Y:844:ARG:CZ	1:Y:870:TYR:CZ	2.95	0.50
1:Y:901:LEU:HG	1:Y:902:ALA:CB	2.39	0.50
1:b:767:VAL:HG23	1:b:785:SER:HB2	1.88	0.50
1:e:720:ASN:CG	1:k:792:THR:HG22	2.37	0.50
2:f:1024:THR:HG22	2:f:1025:ALA:N	2.20	0.50
3:j:1051:VAL:HG12	3:j:1052:PRO:N	2.26	0.50
2:l:1029:VAL:CG1	2:l:1030:ARG:H	2.24	0.50
1:A:779:ARG:CG	2:B:1025:ALA:HA	2.42	0.49
1:A:842:TRP:HA	1:A:842:TRP:CE3	2.47	0.49
1:A:854:PHE:O	1:A:858:LEU:HD23	2.11	0.49
1:A:887:ILE:HG22	1:A:888:PHE:C	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:891:ARG:NH1	1:n:726:LEU:CB	2.50	0.49
1:D:895:PHE:CD2	1:D:899:TYR:HE2	2.30	0.49
2:E:998:ARG:HD2	2:E:1000:ARG:HH22	1.70	0.49
2:K:956:PRO:HD2	2:K:959:ALA:CB	2.42	0.49
1:M:818:VAL:HG13	1:M:818:VAL:O	2.12	0.49
1:P:842:TRP:CE3	1:P:842:TRP:HA	2.47	0.49
1:S:887:ILE:HG22	1:S:888:PHE:C	2.37	0.49
1:S:895:PHE:CD2	1:S:899:TYR:HE2	2.30	0.49
1:Y:727:LYS:HE3	1:Y:728:ALA:O	2.12	0.49
1:Y:764:SER:HB2	1:Y:786:TRP:CZ3	2.47	0.49
1:Y:822:SER:OG	1:Y:889:VAL:HA	2.12	0.49
2:Z:930:MET:HE3	3:a:1053:VAL:CB	2.42	0.49
1:b:822:SER:OG	1:b:889:VAL:HA	2.12	0.49
2:c:974:THR:HG22	2:c:975:LEU:H	1.76	0.49
1:e:842:TRP:HA	1:e:842:TRP:CE3	2.47	0.49
1:e:844:ARG:CZ	1:e:870:TYR:CZ	2.95	0.49
1:h:778:VAL:HG13	2:i:1024:THR:CG2	2.41	0.49
1:k:779:ARG:CG	2:l:1025:ALA:HA	2.42	0.49
1:k:842:TRP:CE3	1:k:842:TRP:HA	2.47	0.49
1:n:779:ARG:CG	2:o:1025:ALA:HA	2.42	0.49
1:n:817:ILE:O	1:n:818:VAL:HB	2.10	0.49
1:n:822:SER:OG	1:n:889:VAL:HA	2.12	0.49
1:A:850:MET:CG	1:A:854:PHE:HZ	2.26	0.49
2:E:974:THR:HG22	2:E:975:LEU:H	1.76	0.49
1:G:726:LEU:HD22	1:J:891:ARG:NH1	2.27	0.49
1:G:895:PHE:CD2	1:G:899:TYR:HE2	2.30	0.49
1:J:854:PHE:O	1:J:858:LEU:HD23	2.11	0.49
1:J:895:PHE:CD2	1:J:899:TYR:HE2	2.30	0.49
2:K:965:TYR:HA	2:K:976:PRO:HD3	1.93	0.49
1:M:726:LEU:HD12	1:P:890:ALA:C	2.37	0.49
1:M:850:MET:CG	1:M:854:PHE:HZ	2.25	0.49
1:P:850:MET:CG	1:P:854:PHE:HZ	2.26	0.49
2:Q:993:VAL:O	2:Q:994:ALA:HB2	2.12	0.49
1:S:842:TRP:CE3	1:S:842:TRP:HA	2.48	0.49
2:T:993:VAL:O	2:T:994:ALA:HB2	2.13	0.49
1:Y:840:HIS:HB3	1:Y:843:GLU:OE1	2.11	0.49
1:Y:854:PHE:O	1:Y:858:LEU:HD23	2.11	0.49
2:Z:1029:VAL:CG1	2:Z:1030:ARG:H	2.24	0.49
2:c:928:TYR:O	3:d:1053:VAL:HG23	2.11	0.49
1:e:779:ARG:CG	2:f:1025:ALA:HA	2.42	0.49
1:e:822:SER:OG	1:e:889:VAL:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:779:ARG:CG	2:i:1025:ALA:HA	2.42	0.49
1:h:822:SER:OG	1:h:889:VAL:HA	2.12	0.49
1:h:833:ILE:HD13	1:h:885:VAL:CG2	2.38	0.49
1:h:850:MET:CG	1:h:854:PHE:HZ	2.25	0.49
1:h:854:PHE:O	1:h:858:LEU:HD23	2.11	0.49
1:k:727:LYS:HE3	1:k:728:ALA:O	2.12	0.49
1:n:901:LEU:HG	1:n:902:ALA:CB	2.39	0.49
1:A:726:LEU:HD22	1:D:891:ARG:NH1	2.27	0.49
1:A:818:VAL:HG13	1:A:818:VAL:O	2.12	0.49
1:A:885:VAL:HG22	1:A:886:SER:N	2.17	0.49
3:C:1059:VAL:HG22	3:C:1060:ASP:N	2.28	0.49
1:D:726:LEU:HD22	1:G:891:ARG:NH1	2.27	0.49
1:D:779:ARG:CG	2:E:1025:ALA:HA	2.42	0.49
3:F:1059:VAL:HG22	3:F:1060:ASP:N	2.28	0.49
1:G:854:PHE:O	1:G:858:LEU:HD23	2.11	0.49
2:H:928:TYR:O	3:I:1053:VAL:HG23	2.11	0.49
2:H:956:PRO:HD2	2:H:959:ALA:CB	2.42	0.49
1:J:720:ASN:CG	1:P:792:THR:HG22	2.37	0.49
1:J:822:SER:OG	1:J:889:VAL:HA	2.12	0.49
1:J:887:ILE:HG22	1:J:888:PHE:C	2.37	0.49
1:M:720:ASN:CG	1:S:792:THR:HG22	2.37	0.49
1:M:727:LYS:HE3	1:M:728:ALA:O	2.12	0.49
1:M:887:ILE:HG22	1:M:888:PHE:C	2.37	0.49
1:M:895:PHE:CD2	1:M:899:TYR:HE2	2.30	0.49
1:P:779:ARG:CG	2:Q:1025:ALA:HA	2.42	0.49
1:P:887:ILE:HG22	1:P:888:PHE:C	2.37	0.49
1:S:779:ARG:CG	2:T:1025:ALA:HA	2.42	0.49
1:V:779:ARG:CG	2:W:1025:ALA:HA	2.42	0.49
1:V:840:HIS:HB3	1:V:843:GLU:OE1	2.11	0.49
1:V:842:TRP:HA	1:V:842:TRP:CE3	2.47	0.49
2:W:965:TYR:OH	1:Y:752:GLY:CA	2.58	0.49
2:W:993:VAL:O	2:W:994:ALA:HB2	2.12	0.49
1:Y:779:ARG:CG	2:Z:1025:ALA:HA	2.42	0.49
1:Y:850:MET:CG	1:Y:854:PHE:HZ	2.26	0.49
2:Z:956:PRO:HD2	2:Z:959:ALA:CB	2.42	0.49
2:Z:965:TYR:HA	2:Z:976:PRO:HD3	1.93	0.49
1:b:720:ASN:CG	1:h:792:THR:HG22	2.37	0.49
1:e:895:PHE:CD2	1:e:899:TYR:HE2	2.30	0.49
3:g:1047:TRP:HA	3:g:1047:TRP:CE3	2.48	0.49
1:h:720:ASN:CG	1:n:792:THR:HG22	2.37	0.49
1:h:895:PHE:CD2	1:h:899:TYR:HE2	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:930:MET:HE3	3:j:1053:VAL:CB	2.42	0.49
2:i:965:TYR:HA	2:i:976:PRO:HD3	1.93	0.49
1:k:822:SER:OG	1:k:889:VAL:HA	2.12	0.49
1:k:862:LEU:O	1:k:866:ALA:HB2	2.11	0.49
1:A:720:ASN:CG	1:G:792:THR:HG22	2.37	0.49
1:A:891:ARG:NH1	1:n:726:LEU:HD22	2.27	0.49
1:D:721:LEU:CD2	1:J:805:LEU:HB2	2.30	0.49
1:D:850:MET:CG	1:D:854:PHE:HZ	2.26	0.49
1:G:720:ASN:CG	1:M:792:THR:HG22	2.37	0.49
1:G:779:ARG:CG	2:H:1025:ALA:HA	2.42	0.49
3:I:1059:VAL:HG22	3:I:1060:ASP:N	2.27	0.49
1:J:726:LEU:HD22	1:M:891:ARG:NH1	2.27	0.49
1:J:747:ILE:HB	1:J:887:ILE:HB	1.95	0.49
1:J:779:ARG:CG	2:K:1025:ALA:HA	2.42	0.49
3:L:1059:VAL:HG22	3:L:1060:ASP:N	2.27	0.49
1:M:779:ARG:CG	2:N:1025:ALA:HA	2.42	0.49
2:N:993:VAL:O	2:N:994:ALA:HB2	2.13	0.49
1:P:895:PHE:CD2	1:P:899:TYR:HE2	2.31	0.49
1:S:726:LEU:CB	1:V:891:ARG:NH1	2.50	0.49
1:S:844:ARG:CZ	1:S:870:TYR:CZ	2.95	0.49
2:T:956:PRO:HD2	2:T:959:ALA:CB	2.42	0.49
1:V:850:MET:CG	1:V:854:PHE:HZ	2.26	0.49
1:V:895:PHE:CD2	1:V:899:TYR:HE2	2.30	0.49
1:b:726:LEU:CB	1:e:891:ARG:NH1	2.50	0.49
1:b:779:ARG:CG	2:c:1025:ALA:HA	2.42	0.49
1:b:811:ASN:HB3	1:b:816:THR:HB	1.91	0.49
1:b:842:TRP:HA	1:b:842:TRP:CE3	2.47	0.49
2:c:965:TYR:OH	1:e:752:GLY:CA	2.58	0.49
2:c:998:ARG:HD2	2:c:1000:ARG:HH21	1.73	0.49
3:g:1051:VAL:HG12	3:g:1052:PRO:N	2.26	0.49
2:i:928:TYR:O	3:j:1053:VAL:HG23	2.11	0.49
3:m:1051:VAL:HG12	3:m:1052:PRO:N	2.26	0.49
1:n:850:MET:CG	1:n:854:PHE:HZ	2.26	0.49
2:o:1024:THR:HG22	2:o:1025:ALA:N	2.20	0.49
3:p:1059:VAL:HG22	3:p:1060:ASP:N	2.28	0.49
2:B:915:LEU:HD23	2:B:915:LEU:O	2.13	0.49
2:B:1000:ARG:O	2:B:1001:LEU:HB2	2.13	0.49
1:D:720:ASN:CG	1:J:792:THR:HG22	2.37	0.49
1:D:887:ILE:HG22	1:D:888:PHE:C	2.37	0.49
1:G:747:ILE:HB	1:G:887:ILE:HB	1.95	0.49
1:G:808:ARG:HG2	1:G:818:VAL:C	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:1000:ARG:O	2:H:1001:LEU:HB2	2.13	0.49
1:M:726:LEU:HD22	1:P:891:ARG:NH1	2.27	0.49
1:M:747:ILE:HB	1:M:887:ILE:HB	1.95	0.49
2:N:965:TYR:HA	2:N:976:PRO:HD3	1.93	0.49
3:O:1059:VAL:HG22	3:O:1060:ASP:N	2.27	0.49
1:P:720:ASN:CG	1:V:792:THR:HG22	2.37	0.49
1:P:726:LEU:HD12	1:S:890:ALA:C	2.37	0.49
1:P:747:ILE:HB	1:P:887:ILE:HB	1.95	0.49
1:P:822:SER:OG	1:P:889:VAL:HA	2.12	0.49
1:P:844:ARG:CZ	1:P:870:TYR:CZ	2.95	0.49
1:S:720:ASN:CG	1:Y:792:THR:HG22	2.37	0.49
1:V:901:LEU:HG	1:V:902:ALA:CB	2.39	0.49
2:W:956:PRO:HD2	2:W:959:ALA:CB	2.42	0.49
2:W:965:TYR:HA	2:W:976:PRO:HD3	1.93	0.49
1:Y:721:LEU:HD13	1:e:822:SER:O	2.12	0.49
2:Z:993:VAL:O	2:Z:994:ALA:HB2	2.12	0.49
1:b:764:SER:HB2	1:b:786:TRP:CZ3	2.46	0.49
1:b:779:ARG:HD3	2:c:1025:ALA:HA	1.94	0.49
1:e:726:LEU:HD22	1:h:891:ARG:NH1	2.27	0.49
2:f:928:TYR:O	3:g:1053:VAL:HG23	2.11	0.49
1:h:755:LEU:HD12	1:h:763:VAL:HG21	1.95	0.49
2:l:930:MET:HE3	3:m:1053:VAL:CB	2.42	0.49
3:m:1059:VAL:HG22	3:m:1060:ASP:N	2.28	0.49
1:n:762:GLN:HA	1:n:790:GLN:HA	1.95	0.49
1:n:808:ARG:HG2	1:n:818:VAL:C	2.38	0.49
2:o:936:MET:HE1	2:o:1004:LYS:CB	2.40	0.49
1:A:762:GLN:HA	1:A:790:GLN:HA	1.95	0.49
1:A:861:GLN:C	1:n:864:SER:HG	2.19	0.49
1:A:895:PHE:CD2	1:A:899:TYR:HE2	2.30	0.49
1:D:822:SER:OG	1:D:889:VAL:HA	2.12	0.49
1:D:842:TRP:HA	1:D:842:TRP:CE3	2.47	0.49
1:G:842:TRP:HA	1:G:842:TRP:CE3	2.47	0.49
1:G:887:ILE:HG22	1:G:888:PHE:C	2.37	0.49
2:H:939:ILE:HG21	2:K:969:ALA:HB2	1.95	0.49
1:J:779:ARG:HD3	2:K:1025:ALA:HA	1.94	0.49
2:K:939:ILE:HG21	2:N:969:ALA:HB2	1.95	0.49
1:M:808:ARG:HG2	1:M:818:VAL:C	2.38	0.49
1:M:822:SER:OG	1:M:889:VAL:HA	2.12	0.49
1:P:721:LEU:HD13	1:V:822:SER:O	2.12	0.49
1:P:779:ARG:HD3	2:Q:1025:ALA:HA	1.94	0.49
2:Q:974:THR:HG22	2:Q:975:LEU:H	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:R:1059:VAL:HG22	3:R:1060:ASP:N	2.28	0.49
1:S:747:ILE:HB	1:S:887:ILE:HB	1.95	0.49
1:V:712:GLU:O	1:V:715:SER:HB2	2.13	0.49
1:V:747:ILE:HB	1:V:887:ILE:HB	1.95	0.49
1:V:779:ARG:HD3	2:W:1025:ALA:HA	1.94	0.49
1:V:844:ARG:CZ	1:V:870:TYR:CZ	2.95	0.49
1:b:780:LEU:HD13	1:b:895:PHE:HB2	1.90	0.49
1:e:755:LEU:HD12	1:e:763:VAL:HG21	1.95	0.49
1:h:842:TRP:CE3	1:h:842:TRP:HA	2.48	0.49
2:i:915:LEU:HD23	2:i:915:LEU:O	2.13	0.49
2:i:1000:ARG:O	2:i:1001:LEU:HB2	2.13	0.49
2:i:1024:THR:HG22	2:i:1025:ALA:N	2.20	0.49
1:k:712:GLU:O	1:k:715:SER:HB2	2.13	0.49
1:k:729:SER:HB2	1:n:891:ARG:CD	2.42	0.49
1:k:762:GLN:HA	1:k:790:GLN:HA	1.95	0.49
3:m:1047:TRP:HA	3:m:1047:TRP:CE3	2.48	0.49
1:n:818:VAL:HG13	1:n:818:VAL:O	2.12	0.49
2:o:915:LEU:HD23	2:o:915:LEU:O	2.13	0.49
1:A:747:ILE:HB	1:A:887:ILE:HB	1.95	0.49
2:B:956:PRO:HD2	2:B:959:ALA:CB	2.42	0.49
1:D:721:LEU:HD13	1:J:822:SER:O	2.12	0.49
3:F:1051:VAL:HG12	3:F:1052:PRO:N	2.26	0.49
1:G:729:SER:HB2	1:J:891:ARG:CD	2.42	0.49
1:J:743:LYS:HE2	1:M:808:ARG:HH21	1.78	0.49
1:M:901:LEU:HG	1:M:902:ALA:CB	2.39	0.49
1:M:902:ALA:HB1	2:N:912:THR:CG2	2.43	0.49
1:P:726:LEU:HD22	1:S:891:ARG:NH1	2.27	0.49
3:U:1059:VAL:HG22	3:U:1060:ASP:N	2.28	0.49
1:V:727:LYS:HE3	1:V:728:ALA:O	2.12	0.49
3:X:1047:TRP:HA	3:X:1047:TRP:CE3	2.48	0.49
1:Y:726:LEU:HD22	1:b:891:ARG:NH1	2.27	0.49
3:a:1047:TRP:CE3	3:a:1047:TRP:HA	2.48	0.49
1:b:747:ILE:HB	1:b:887:ILE:HB	1.95	0.49
1:b:755:LEU:HD12	1:b:763:VAL:HG21	1.95	0.49
1:b:893:LEU:HD23	1:b:893:LEU:N	2.25	0.49
2:c:965:TYR:HA	2:c:976:PRO:HD3	1.93	0.49
2:f:965:TYR:OH	1:h:752:GLY:CA	2.58	0.49
1:h:727:LYS:HE3	1:h:728:ALA:O	2.12	0.49
1:h:746:MET:HE3	1:h:886:SER:HB3	1.92	0.49
1:h:762:GLN:HA	1:h:790:GLN:HA	1.95	0.49
3:j:1059:VAL:HG22	3:j:1060:ASP:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:l:928:TYR:O	3:m:1053:VAL:HG23	2.11	0.49
2:o:928:TYR:O	3:p:1053:VAL:HG23	2.11	0.49
2:o:993:VAL:O	2:o:994:ALA:HB2	2.13	0.49
2:o:1000:ARG:O	2:o:1001:LEU:HB2	2.13	0.49
1:A:712:GLU:O	1:A:715:SER:HB2	2.13	0.49
1:A:891:ARG:CD	1:n:729:SER:HB2	2.42	0.49
3:C:1051:VAL:HG12	3:C:1052:PRO:N	2.26	0.49
1:D:747:ILE:HB	1:D:887:ILE:HB	1.95	0.49
1:D:762:GLN:HA	1:D:790:GLN:HA	1.95	0.49
1:D:792:THR:HG22	1:n:720:ASN:CG	2.37	0.49
1:D:818:VAL:HG13	1:D:818:VAL:O	2.12	0.49
1:G:822:SER:OG	1:G:889:VAL:HA	2.12	0.49
1:J:808:ARG:HG2	1:J:818:VAL:C	2.38	0.49
1:M:893:LEU:HD23	1:M:893:LEU:N	2.25	0.49
2:N:939:ILE:HG21	2:Q:969:ALA:HB2	1.95	0.49
1:S:726:LEU:HD22	1:V:891:ARG:NH1	2.27	0.49
1:S:850:MET:CG	1:S:854:PHE:HZ	2.26	0.49
3:X:1059:VAL:HG22	3:X:1060:ASP:N	2.28	0.49
1:Y:755:LEU:HD12	1:Y:763:VAL:HG21	1.95	0.49
1:b:895:PHE:CD2	1:b:899:TYR:HE2	2.30	0.49
1:e:712:GLU:O	1:e:715:SER:HB2	2.13	0.49
1:e:724:ALA:C	1:e:725:ARG:HD2	2.38	0.49
1:e:727:LYS:HE3	1:e:728:ALA:O	2.12	0.49
3:g:1059:VAL:HG22	3:g:1060:ASP:N	2.27	0.49
1:h:729:SER:HB2	1:k:891:ARG:CD	2.42	0.49
1:k:828:LEU:O	1:n:753:THR:HG22	2.13	0.49
1:k:833:ILE:HD13	1:k:885:VAL:CG2	2.38	0.49
1:k:850:MET:CG	1:k:854:PHE:HZ	2.26	0.49
1:k:895:PHE:CD2	1:k:899:TYR:HE2	2.31	0.49
1:k:901:LEU:HG	1:k:902:ALA:CB	2.39	0.49
1:A:726:LEU:CB	1:D:891:ARG:NH1	2.50	0.49
1:A:779:ARG:HD3	2:B:1025:ALA:HA	1.94	0.49
1:A:792:THR:HG22	1:k:720:ASN:CG	2.37	0.49
3:C:1057:ILE:HG23	3:C:1058:PRO:CD	2.43	0.49
1:D:808:ARG:HG2	1:D:818:VAL:C	2.38	0.49
1:D:902:ALA:CA	2:E:1029:VAL:HG13	2.38	0.49
2:E:939:ILE:HG21	2:H:969:ALA:HB2	1.95	0.49
3:F:1057:ILE:HG23	3:F:1058:PRO:CD	2.43	0.49
2:H:965:TYR:OH	1:J:752:GLY:CA	2.58	0.49
2:H:974:THR:HG22	2:H:975:LEU:H	1.76	0.49
1:J:724:ALA:C	1:J:725:ARG:HD2	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:845:LEU:HB3	1:J:849:ILE:HD11	1.95	0.49
1:M:845:LEU:HB3	1:M:849:ILE:HD11	1.95	0.49
2:N:956:PRO:HD2	2:N:959:ALA:CB	2.42	0.49
1:P:727:LYS:HE3	1:P:728:ALA:O	2.12	0.49
1:P:845:LEU:HB3	1:P:849:ILE:HD11	1.95	0.49
2:Q:965:TYR:HA	2:Q:976:PRO:HD3	1.93	0.49
1:V:720:ASN:CG	1:b:792:THR:HG22	2.37	0.49
2:Z:974:THR:HG22	2:Z:975:LEU:H	1.76	0.49
3:a:1059:VAL:HG22	3:a:1060:ASP:N	2.28	0.49
2:c:993:VAL:O	2:c:994:ALA:HB2	2.13	0.49
3:d:1059:VAL:HG22	3:d:1060:ASP:N	2.27	0.49
1:e:747:ILE:HB	1:e:887:ILE:HB	1.95	0.49
2:f:965:TYR:HA	2:f:976:PRO:HD3	1.93	0.49
1:h:721:LEU:HD13	1:n:822:SER:O	2.12	0.49
1:k:755:LEU:HD12	1:k:763:VAL:HG21	1.95	0.49
1:n:747:ILE:HB	1:n:887:ILE:HB	1.95	0.49
1:A:753:THR:HG22	1:n:828:LEU:O	2.13	0.49
2:B:993:VAL:O	2:B:994:ALA:HB2	2.12	0.49
1:D:712:GLU:O	1:D:715:SER:HB2	2.13	0.49
1:D:902:ALA:HB1	2:E:912:THR:CG2	2.43	0.49
1:G:845:LEU:HB3	1:G:849:ILE:HD11	1.95	0.49
3:I:1051:VAL:HG12	3:I:1052:PRO:N	2.26	0.49
3:I:1057:ILE:HG23	3:I:1058:PRO:CD	2.43	0.49
1:J:828:LEU:O	1:M:753:THR:HG22	2.13	0.49
1:J:850:MET:CG	1:J:854:PHE:HZ	2.26	0.49
2:K:993:VAL:O	2:K:994:ALA:HB2	2.12	0.49
1:P:712:GLU:O	1:P:715:SER:HB2	2.13	0.49
1:S:726:LEU:HD12	1:V:890:ALA:C	2.37	0.49
1:V:828:LEU:O	1:Y:753:THR:HG22	2.13	0.49
1:Y:720:ASN:CG	1:e:792:THR:HG22	2.37	0.49
1:Y:729:SER:HB2	1:b:891:ARG:CD	2.42	0.49
1:Y:747:ILE:HB	1:Y:887:ILE:HB	1.95	0.49
1:Y:828:LEU:O	1:b:753:THR:HG22	2.13	0.49
1:Y:842:TRP:HA	1:Y:842:TRP:CE3	2.47	0.49
1:e:850:MET:CG	1:e:854:PHE:HZ	2.26	0.49
2:f:915:LEU:HD23	2:f:915:LEU:O	2.13	0.49
2:f:956:PRO:HD2	2:f:959:ALA:CB	2.42	0.49
1:h:808:ARG:HG2	1:h:818:VAL:C	2.38	0.49
1:h:902:ALA:HB1	2:i:912:THR:CG2	2.43	0.49
2:i:965:TYR:OH	1:k:752:GLY:CA	2.58	0.49
2:l:993:VAL:O	2:l:994:ALA:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:902:ALA:HB1	2:o:912:THR:CG2	2.43	0.49
1:A:729:SER:HB2	1:D:891:ARG:CD	2.42	0.48
2:B:928:TYR:O	3:C:1053:VAL:HG23	2.11	0.48
2:E:956:PRO:HD2	2:E:959:ALA:CB	2.42	0.48
1:G:762:GLN:HA	1:G:790:GLN:HA	1.95	0.48
1:G:828:LEU:O	1:J:753:THR:HG22	2.13	0.48
1:G:851:ILE:CA	1:G:854:PHE:CD2	2.95	0.48
2:H:915:LEU:HD23	2:H:915:LEU:O	2.13	0.48
1:J:743:LYS:CD	1:J:891:ARG:CA	2.91	0.48
3:L:1057:ILE:HG23	3:L:1058:PRO:CD	2.43	0.48
1:M:833:ILE:HA	1:M:834:PRO:HD3	1.47	0.48
1:P:721:LEU:CD2	1:V:805:LEU:C	2.75	0.48
3:R:1057:ILE:HG23	3:R:1058:PRO:CD	2.43	0.48
1:S:818:VAL:HG13	1:S:818:VAL:O	2.12	0.48
1:S:901:LEU:HG	1:S:902:ALA:CB	2.39	0.48
3:U:1057:ILE:HG23	3:U:1058:PRO:CD	2.43	0.48
3:X:1057:ILE:HG23	3:X:1058:PRO:CD	2.43	0.48
1:b:712:GLU:O	1:b:715:SER:HB2	2.13	0.48
1:b:902:ALA:HB1	2:c:912:THR:CG2	2.43	0.48
3:d:1047:TRP:CE3	3:d:1047:TRP:HA	2.48	0.48
1:e:762:GLN:HA	1:e:790:GLN:HA	1.95	0.48
1:e:764:SER:HB2	1:e:786:TRP:CZ3	2.47	0.48
2:f:949:ARG:HD3	2:f:992:THR:C	2.38	0.48
1:h:726:LEU:HD22	1:k:891:ARG:NH1	2.27	0.48
1:h:743:LYS:HE2	1:k:808:ARG:HH21	1.78	0.48
1:h:747:ILE:HB	1:h:887:ILE:HB	1.95	0.48
1:h:818:VAL:HG13	1:h:818:VAL:O	2.12	0.48
1:k:747:ILE:HB	1:k:887:ILE:HB	1.95	0.48
1:A:724:ALA:C	1:A:725:ARG:HD2	2.38	0.48
1:A:778:VAL:HG22	2:B:916:LYS:HZ1	1.77	0.48
2:B:939:ILE:HG21	2:E:969:ALA:HB2	1.95	0.48
2:E:1000:ARG:O	2:E:1001:LEU:HB2	2.13	0.48
1:G:743:LYS:CD	1:G:891:ARG:CA	2.91	0.48
1:G:806:TRP:CD1	1:G:887:ILE:CG1	2.94	0.48
2:H:1029:VAL:CG1	2:H:1030:ARG:H	2.24	0.48
1:M:712:GLU:O	1:M:715:SER:HB2	2.13	0.48
2:N:1000:ARG:O	2:N:1001:LEU:HB2	2.13	0.48
3:O:1057:ILE:HG23	3:O:1058:PRO:CD	2.43	0.48
1:P:818:VAL:HG13	1:P:818:VAL:O	2.12	0.48
1:P:901:LEU:HG	1:P:902:ALA:CB	2.39	0.48
2:Q:939:ILE:HG21	2:T:969:ALA:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:727:LYS:HE3	1:S:728:ALA:O	2.12	0.48
1:S:845:LEU:HB3	1:S:849:ILE:HD11	1.95	0.48
1:S:902:ALA:HB1	2:T:912:THR:CG2	2.43	0.48
1:V:743:LYS:NZ	1:V:891:ARG:HA	2.28	0.48
1:V:755:LEU:HD12	1:V:763:VAL:HG21	1.95	0.48
1:Y:712:GLU:O	1:Y:715:SER:HB2	2.13	0.48
3:a:1057:ILE:HG23	3:a:1058:PRO:CD	2.43	0.48
1:b:724:ALA:C	1:b:725:ARG:HD2	2.38	0.48
1:b:743:LYS:NZ	1:b:891:ARG:HA	2.28	0.48
1:b:850:MET:CG	1:b:854:PHE:HZ	2.26	0.48
2:c:949:ARG:HD3	2:c:992:THR:C	2.38	0.48
3:d:1057:ILE:HG23	3:d:1058:PRO:CD	2.43	0.48
1:e:893:LEU:HD23	1:e:893:LEU:N	2.25	0.48
1:h:742:PRO:CD	1:h:774:ALA:HA	2.44	0.48
1:h:828:LEU:O	1:k:753:THR:HG22	2.13	0.48
1:h:901:LEU:HG	1:h:902:ALA:CB	2.39	0.48
1:k:743:LYS:CD	1:k:891:ARG:CA	2.91	0.48
2:l:956:PRO:HD2	2:l:959:ALA:CB	2.42	0.48
2:l:998:ARG:HD2	2:l:1000:ARG:HH21	1.73	0.48
2:l:1000:ARG:O	2:l:1001:LEU:HB2	2.13	0.48
1:n:743:LYS:CD	1:n:891:ARG:CA	2.92	0.48
1:n:842:TRP:HA	1:n:842:TRP:CE3	2.48	0.48
1:A:743:LYS:CD	1:A:891:ARG:CA	2.91	0.48
1:A:893:LEU:HD23	1:A:893:LEU:N	2.25	0.48
1:D:743:LYS:CD	1:D:891:ARG:CA	2.91	0.48
1:D:845:LEU:HB3	1:D:849:ILE:CD1	2.44	0.48
1:G:743:LYS:NZ	1:G:891:ARG:HA	2.28	0.48
1:G:811:ASN:HB3	1:G:816:THR:HB	1.91	0.48
1:G:850:MET:CG	1:G:854:PHE:HZ	2.26	0.48
3:I:1047:TRP:CE3	3:I:1047:TRP:HA	2.48	0.48
1:J:743:LYS:NZ	1:J:891:ARG:HA	2.28	0.48
1:J:902:ALA:HB1	2:K:912:THR:CG2	2.43	0.48
1:M:743:LYS:CD	1:M:891:ARG:CA	2.92	0.48
1:M:778:VAL:HG22	2:N:916:LYS:HZ1	1.77	0.48
1:M:842:TRP:CE3	1:M:842:TRP:HA	2.48	0.48
1:P:743:LYS:CD	1:P:891:ARG:CA	2.91	0.48
3:R:1047:TRP:HA	3:R:1047:TRP:CE3	2.48	0.48
1:S:808:ARG:HG2	1:S:818:VAL:C	2.38	0.48
2:T:965:TYR:HA	2:T:976:PRO:HD3	1.93	0.48
1:V:818:VAL:HG13	1:V:818:VAL:O	2.12	0.48
1:Y:895:PHE:CD2	1:Y:899:TYR:HE2	2.30	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:980:VAL:CG1	1:b:766:ARG:HH12	2.18	0.48
1:b:721:LEU:HD13	1:h:822:SER:O	2.12	0.48
1:b:727:LYS:HE3	1:b:728:ALA:O	2.12	0.48
2:c:1000:ARG:O	2:c:1001:LEU:HB2	2.13	0.48
1:e:729:SER:HB2	1:h:891:ARG:CD	2.42	0.48
1:e:743:LYS:CD	1:e:891:ARG:CA	2.91	0.48
1:e:811:ASN:HB3	1:e:816:THR:HB	1.91	0.48
1:e:818:VAL:HG13	1:e:820:ILE:CG2	2.43	0.48
1:h:743:LYS:CD	1:h:891:ARG:CA	2.92	0.48
2:i:949:ARG:HD3	2:i:992:THR:C	2.38	0.48
1:k:742:PRO:CD	1:k:774:ALA:HA	2.44	0.48
1:k:743:LYS:NZ	1:k:891:ARG:HA	2.28	0.48
1:k:795:ILE:HG22	1:k:802:VAL:HA	1.94	0.48
1:n:742:PRO:CD	1:n:774:ALA:HA	2.44	0.48
3:p:1057:ILE:HD13	3:p:1057:ILE:HA	1.70	0.48
1:A:721:LEU:CD2	1:G:805:LEU:C	2.75	0.48
1:A:895:PHE:CD2	1:A:899:TYR:CE2	3.02	0.48
1:D:806:TRP:CD1	1:D:887:ILE:CG1	2.94	0.48
1:D:845:LEU:HB3	1:D:849:ILE:HD11	1.95	0.48
2:E:915:LEU:HD23	2:E:915:LEU:O	2.13	0.48
2:E:976:PRO:HB3	2:E:992:THR:OG1	2.14	0.48
1:G:712:GLU:O	1:G:715:SER:HB2	2.13	0.48
1:M:729:SER:HG	1:P:818:VAL:CG2	2.23	0.48
1:M:795:ILE:HD11	1:M:876:THR:O	2.14	0.48
1:M:845:LEU:HB3	1:M:849:ILE:CD1	2.44	0.48
1:P:808:ARG:HG2	1:P:818:VAL:C	2.38	0.48
1:V:726:LEU:HD22	1:Y:891:ARG:NH1	2.27	0.48
2:W:1029:VAL:CG1	2:W:1030:ARG:H	2.24	0.48
1:Y:895:PHE:CD2	1:Y:899:TYR:CE2	3.02	0.48
1:b:721:LEU:CD2	1:h:805:LEU:C	2.75	0.48
1:b:721:LEU:CD2	1:h:805:LEU:HB2	2.30	0.48
1:b:762:GLN:HA	1:b:790:GLN:HA	1.95	0.48
1:e:795:ILE:HD11	1:e:876:THR:O	2.14	0.48
3:g:1057:ILE:HG23	3:g:1058:PRO:CD	2.43	0.48
1:h:743:LYS:NZ	1:h:891:ARG:HA	2.28	0.48
1:k:808:ARG:HG2	1:k:818:VAL:C	2.38	0.48
1:k:818:VAL:HG13	1:k:818:VAL:O	2.12	0.48
1:n:895:PHE:CD2	1:n:899:TYR:CE2	3.02	0.48
2:o:949:ARG:HD3	2:o:992:THR:C	2.38	0.48
1:A:742:PRO:CD	1:A:774:ALA:HA	2.44	0.48
1:A:808:ARG:HG2	1:A:818:VAL:C	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:828:LEU:O	1:D:753:THR:HG22	2.13	0.48
1:A:891:ARG:HH11	1:n:726:LEU:HB3	1.71	0.48
2:B:969:ALA:HB2	2:o:939:ILE:HG21	1.95	0.48
1:D:746:MET:HE3	1:D:886:SER:HB3	1.92	0.48
1:D:895:PHE:CD2	1:D:899:TYR:CE2	3.02	0.48
1:G:801:ARG:NE	1:J:759:VAL:CG2	2.77	0.48
1:G:845:LEU:HB3	1:G:849:ILE:CD1	2.44	0.48
2:H:993:VAL:O	2:H:994:ALA:HB2	2.13	0.48
2:K:915:LEU:HD23	2:K:915:LEU:O	2.13	0.48
2:K:980:VAL:CG1	1:M:766:ARG:HH12	2.18	0.48
1:S:724:ALA:C	1:S:725:ARG:HD2	2.38	0.48
2:T:939:ILE:HG21	2:W:969:ALA:HB2	1.95	0.48
3:U:1057:ILE:HA	3:U:1058:PRO:HD3	1.60	0.48
1:V:895:PHE:CD2	1:V:899:TYR:CE2	3.02	0.48
1:Y:801:ARG:NE	1:b:759:VAL:CG2	2.77	0.48
1:Y:833:ILE:HA	1:Y:834:PRO:HD3	1.47	0.48
2:Z:915:LEU:HD23	2:Z:915:LEU:O	2.13	0.48
2:Z:949:ARG:HD3	2:Z:992:THR:C	2.38	0.48
1:b:742:PRO:CD	1:b:774:ALA:HA	2.44	0.48
1:b:818:VAL:HG13	1:b:818:VAL:O	2.12	0.48
1:b:895:PHE:CD2	1:b:899:TYR:CE2	3.02	0.48
2:c:976:PRO:HB3	2:c:992:THR:OG1	2.14	0.48
1:e:742:PRO:CD	1:e:774:ALA:HA	2.44	0.48
1:e:828:LEU:HD13	1:h:754:GLU:CD	2.28	0.48
1:e:895:PHE:CD2	1:e:899:TYR:CE2	3.02	0.48
1:h:795:ILE:HG22	1:h:802:VAL:HA	1.94	0.48
1:h:895:PHE:CD2	1:h:899:TYR:CE2	3.02	0.48
2:i:1029:VAL:CG1	2:i:1030:ARG:H	2.24	0.48
1:k:895:PHE:CD2	1:k:899:TYR:CE2	3.02	0.48
2:l:949:ARG:HD3	2:l:992:THR:C	2.38	0.48
2:l:965:TYR:OH	1:n:752:GLY:CA	2.58	0.48
2:l:1024:THR:HG22	2:l:1025:ALA:N	2.20	0.48
1:n:795:ILE:HG22	1:n:802:VAL:HA	1.94	0.48
3:p:1047:TRP:HA	3:p:1047:TRP:CE3	2.48	0.48
1:A:845:LEU:HB3	1:A:849:ILE:CD1	2.43	0.48
1:A:864:SER:HG	1:D:861:GLN:C	2.19	0.48
2:B:930:MET:HE3	3:C:1053:VAL:CG2	2.44	0.48
2:B:945:TRP:N	2:B:945:TRP:CE3	2.82	0.48
2:B:998:ARG:HD2	2:B:1000:ARG:HH21	1.73	0.48
3:I:1057:ILE:HD13	3:I:1057:ILE:HA	1.70	0.48
1:J:729:SER:HB2	1:M:891:ARG:CD	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:801:ARG:NE	1:M:759:VAL:CG2	2.77	0.48
1:J:845:LEU:HB3	1:J:849:ILE:CD1	2.43	0.48
1:M:743:LYS:NZ	1:M:891:ARG:HA	2.28	0.48
1:M:828:LEU:O	1:P:753:THR:HG22	2.13	0.48
2:N:1000:ARG:NH1	3:O:1043:PRO:HG2	2.29	0.48
1:P:778:VAL:HG22	2:Q:916:LYS:NZ	2.29	0.48
1:S:743:LYS:NZ	1:S:891:ARG:HA	2.29	0.48
1:S:828:LEU:O	1:V:753:THR:HG22	2.13	0.48
1:V:726:LEU:HD12	1:Y:890:ALA:C	2.37	0.48
1:V:795:ILE:HD11	1:V:876:THR:O	2.14	0.48
1:V:902:ALA:HB1	2:W:912:THR:CG2	2.43	0.48
2:W:974:THR:HG22	2:W:975:LEU:H	1.76	0.48
1:b:726:LEU:HD22	1:e:891:ARG:NH1	2.27	0.48
1:e:795:ILE:HG22	1:e:802:VAL:HA	1.94	0.48
2:f:993:VAL:O	2:f:994:ALA:HB2	2.12	0.48
1:h:712:GLU:O	1:h:715:SER:HB2	2.13	0.48
1:h:764:SER:HB2	1:h:786:TRP:CZ3	2.47	0.48
1:h:818:VAL:HG13	1:h:820:ILE:CG2	2.43	0.48
3:j:1047:TRP:HA	3:j:1047:TRP:CE3	2.48	0.48
1:k:778:VAL:HG22	2:l:916:LYS:NZ	2.29	0.48
2:l:976:PRO:HB3	2:l:992:THR:OG1	2.14	0.48
1:n:818:VAL:HG13	1:n:820:ILE:CG2	2.43	0.48
1:n:895:PHE:CD2	1:n:899:TYR:HE2	2.30	0.48
2:o:930:MET:HE3	3:p:1053:VAL:CG2	2.44	0.48
1:D:729:SER:HB2	1:G:891:ARG:CD	2.42	0.48
1:D:795:ILE:HD11	1:D:876:THR:O	2.14	0.48
1:D:828:LEU:O	1:G:753:THR:HG22	2.13	0.48
2:E:949:ARG:HD3	2:E:992:THR:C	2.38	0.48
1:G:743:LYS:HE2	1:J:808:ARG:HH21	1.78	0.48
1:G:795:ILE:HG22	1:G:802:VAL:HA	1.94	0.48
1:J:818:VAL:HG13	1:J:818:VAL:O	2.12	0.48
2:K:974:THR:HG22	2:K:975:LEU:H	1.76	0.48
2:K:1000:ARG:NH1	3:L:1043:PRO:HG2	2.29	0.48
1:M:795:ILE:HG22	1:M:802:VAL:HA	1.94	0.48
1:M:806:TRP:CD1	1:M:887:ILE:CG1	2.94	0.48
1:M:818:VAL:HG13	1:M:820:ILE:CG2	2.43	0.48
2:N:916:LYS:HB2	2:N:1029:VAL:CG2	2.44	0.48
1:V:778:VAL:HG22	2:W:916:LYS:NZ	2.29	0.48
1:V:801:ARG:NE	1:Y:759:VAL:CG2	2.77	0.48
1:V:818:VAL:HG13	1:V:820:ILE:CG2	2.43	0.48
1:V:845:LEU:HB3	1:V:849:ILE:HD11	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Y:742:PRO:CD	1:Y:774:ALA:HA	2.44	0.48
1:Y:818:VAL:HG13	1:Y:818:VAL:O	2.12	0.48
1:b:808:ARG:HG2	1:b:818:VAL:C	2.38	0.48
1:b:828:LEU:O	1:e:753:THR:HG22	2.13	0.48
1:b:902:ALA:CA	2:c:1029:VAL:HG13	2.38	0.48
2:c:915:LEU:HD23	2:c:915:LEU:O	2.13	0.48
2:c:916:LYS:HB2	2:c:1029:VAL:CG2	2.44	0.48
2:c:956:PRO:HD2	2:c:959:ALA:CB	2.42	0.48
1:e:901:LEU:HG	1:e:902:ALA:CB	2.39	0.48
1:h:729:SER:HG	1:k:818:VAL:HG22	1.71	0.48
1:h:850:MET:HE2	1:h:850:MET:HA	1.96	0.48
1:k:734:MET:H	1:k:734:MET:HG3	1.42	0.48
2:l:930:MET:HE3	3:m:1053:VAL:CG2	2.44	0.48
1:n:724:ALA:C	1:n:725:ARG:HD2	2.38	0.48
1:n:833:ILE:HD13	1:n:885:VAL:CG2	2.38	0.48
1:A:752:GLY:CA	2:o:965:TYR:OH	2.58	0.48
3:C:1057:ILE:HA	3:C:1058:PRO:HD3	1.60	0.48
1:D:726:LEU:CB	1:G:891:ARG:NH1	2.51	0.48
1:D:742:PRO:CD	1:D:774:ALA:HA	2.44	0.48
1:D:768:SER:O	1:D:783:LYS:HB3	2.14	0.48
1:D:801:ARG:NE	1:G:759:VAL:CG2	2.77	0.48
2:E:945:TRP:N	2:E:945:TRP:CE3	2.82	0.48
2:E:950:PHE:CE1	2:E:991:GLU:CB	2.97	0.48
1:G:795:ILE:HD11	1:G:876:THR:O	2.14	0.48
1:G:895:PHE:CD2	1:G:899:TYR:CE2	3.02	0.48
1:J:712:GLU:O	1:J:715:SER:HB2	2.13	0.48
1:J:762:GLN:HA	1:J:790:GLN:HA	1.95	0.48
2:K:916:LYS:HB2	2:K:1029:VAL:CG2	2.44	0.48
2:N:915:LEU:HD23	2:N:915:LEU:O	2.13	0.48
1:S:762:GLN:HA	1:S:790:GLN:HA	1.95	0.48
1:S:895:PHE:CD2	1:S:899:TYR:CE2	3.02	0.48
1:V:743:LYS:CD	1:V:891:ARG:CA	2.91	0.48
1:V:808:ARG:HG2	1:V:818:VAL:C	2.38	0.48
2:W:1000:ARG:NH1	3:X:1043:PRO:HG2	2.29	0.48
1:Y:743:LYS:CD	1:Y:891:ARG:CA	2.91	0.48
1:b:743:LYS:CD	1:b:891:ARG:CA	2.91	0.48
1:b:795:ILE:HG22	1:b:802:VAL:HA	1.94	0.48
2:c:924:LYS:CD	2:c:945:TRP:HD1	2.27	0.48
1:e:808:ARG:HG2	1:e:818:VAL:C	2.38	0.48
1:e:828:LEU:O	1:h:753:THR:HG22	2.13	0.48
1:e:845:LEU:HB3	1:e:849:ILE:CD1	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:993:VAL:O	2:i:994:ALA:HB2	2.13	0.48
1:k:850:MET:HA	1:k:850:MET:HE2	1.96	0.48
1:n:712:GLU:O	1:n:715:SER:HB2	2.13	0.48
1:n:768:SER:O	1:n:783:LYS:HB3	2.14	0.48
2:o:998:ARG:HD2	2:o:1000:ARG:HH21	1.73	0.48
1:A:725:ARG:N	1:G:807:GLU:OE1	2.47	0.48
1:A:795:ILE:HD11	1:A:876:THR:O	2.14	0.48
1:A:795:ILE:HG22	1:A:802:VAL:HA	1.94	0.48
2:B:949:ARG:HD3	2:B:992:THR:C	2.38	0.48
1:D:743:LYS:NZ	1:D:891:ARG:HA	2.29	0.48
1:D:800:ALA:HB3	1:D:801:ARG:HG2	1.96	0.48
2:E:993:VAL:O	2:E:994:ALA:HB2	2.12	0.48
2:E:1000:ARG:NH1	3:F:1043:PRO:HG2	2.29	0.48
2:H:950:PHE:CE1	2:H:991:GLU:CB	2.97	0.48
1:J:795:ILE:HD11	1:J:876:THR:O	2.14	0.48
2:K:945:TRP:N	2:K:945:TRP:CE3	2.82	0.48
1:M:801:ARG:NE	1:P:759:VAL:CG2	2.77	0.48
2:N:924:LYS:CD	2:N:945:TRP:HD1	2.27	0.48
2:N:948:TYR:HB3	2:N:950:PHE:H	1.79	0.48
2:N:974:THR:HG22	2:N:975:LEU:H	1.76	0.48
2:N:976:PRO:HB3	2:N:992:THR:OG1	2.14	0.48
1:P:778:VAL:HG12	1:P:779:ARG:N	2.29	0.48
1:P:795:ILE:HG22	1:P:802:VAL:HA	1.94	0.48
2:Q:949:ARG:HD3	2:Q:992:THR:C	2.38	0.48
1:S:743:LYS:CD	1:S:891:ARG:CA	2.92	0.48
1:S:755:LEU:HD12	1:S:763:VAL:HG21	1.95	0.48
1:S:778:VAL:HG12	1:S:779:ARG:N	2.29	0.48
2:T:924:LYS:CD	2:T:945:TRP:HD1	2.27	0.48
3:U:1047:TRP:HA	3:U:1047:TRP:CE3	2.48	0.48
1:V:762:GLN:HA	1:V:790:GLN:HA	1.95	0.48
2:W:939:ILE:HG21	2:Z:969:ALA:HB2	1.95	0.48
1:Y:778:VAL:HG22	2:Z:916:LYS:NZ	2.29	0.48
1:Y:806:TRP:CD1	1:Y:887:ILE:CG1	2.94	0.48
1:Y:845:LEU:HB3	1:Y:849:ILE:CD1	2.44	0.48
2:Z:916:LYS:HB2	2:Z:1029:VAL:CG2	2.44	0.48
1:b:729:SER:HB2	1:e:891:ARG:CD	2.42	0.48
1:b:778:VAL:HG22	2:c:916:LYS:NZ	2.29	0.48
1:b:795:ILE:HD11	1:b:876:THR:O	2.14	0.48
1:b:800:ALA:HB3	1:b:801:ARG:HG2	1.96	0.48
1:e:723:PRO:HA	1:e:724:ALA:HA	1.62	0.48
1:e:729:SER:HG	1:h:818:VAL:HG22	1.70	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:930:MET:HE3	3:j:1053:VAL:CG2	2.44	0.48
1:k:764:SER:HB2	1:k:786:TRP:CZ3	2.47	0.48
1:k:795:ILE:HD11	1:k:876:THR:O	2.14	0.48
2:l:915:LEU:HD23	2:l:915:LEU:O	2.13	0.48
1:n:743:LYS:NZ	1:n:891:ARG:HA	2.29	0.48
1:A:778:VAL:HG22	2:B:916:LYS:NZ	2.29	0.48
1:A:901:LEU:HG	1:A:902:ALA:CB	2.39	0.48
2:B:979:HIS:HD2	2:B:981:VAL:CG1	2.27	0.48
1:D:851:ILE:CA	1:D:854:PHE:CD2	2.95	0.48
2:E:924:LYS:CD	2:E:945:TRP:HD1	2.27	0.48
1:G:724:ALA:C	1:G:725:ARG:HD2	2.38	0.48
1:J:755:LEU:HD12	1:J:763:VAL:HG21	1.95	0.48
1:J:795:ILE:HG22	1:J:802:VAL:HA	1.94	0.48
2:K:950:PHE:CE1	2:K:991:GLU:CB	2.97	0.48
2:K:979:HIS:HD2	2:K:981:VAL:CG1	2.27	0.48
1:M:778:VAL:HG12	1:M:779:ARG:N	2.29	0.48
1:P:720:ASN:H	1:V:805:LEU:HD21	1.67	0.48
1:P:895:PHE:CD2	1:P:899:TYR:CE2	3.02	0.48
2:Q:916:LYS:HB2	2:Q:1029:VAL:CG2	2.44	0.48
2:Q:1000:ARG:NH1	3:R:1043:PRO:HG2	2.29	0.48
1:S:712:GLU:O	1:S:715:SER:HB2	2.13	0.48
2:T:1000:ARG:NH1	3:U:1043:PRO:HG2	2.29	0.48
2:W:949:ARG:HD3	2:W:992:THR:C	2.38	0.48
1:Y:795:ILE:HG22	1:Y:802:VAL:HA	1.94	0.48
1:Y:808:ARG:HG2	1:Y:818:VAL:C	2.38	0.48
1:Y:818:VAL:HG13	1:Y:820:ILE:CG2	2.44	0.48
2:Z:950:PHE:CE1	2:Z:991:GLU:CB	2.97	0.48
1:b:801:ARG:NE	1:e:759:VAL:CG2	2.77	0.48
1:e:768:SER:O	1:e:783:LYS:HB3	2.14	0.48
1:e:778:VAL:HG22	2:f:916:LYS:NZ	2.29	0.48
1:e:850:MET:HE2	1:e:850:MET:HA	1.96	0.48
1:h:800:ALA:HB3	1:h:801:ARG:HG2	1.96	0.48
1:h:845:LEU:HB3	1:h:849:ILE:HD11	1.95	0.48
1:k:734:MET:HE2	1:k:734:MET:HB2	1.60	0.48
1:k:800:ALA:HB3	1:k:801:ARG:HG2	1.96	0.48
1:n:755:LEU:HD12	1:n:763:VAL:HG21	1.95	0.48
1:n:850:MET:HA	1:n:850:MET:HE2	1.96	0.48
2:o:979:HIS:HD2	2:o:981:VAL:CG1	2.27	0.48
3:p:1051:VAL:HG12	3:p:1052:PRO:N	2.26	0.48
1:A:800:ALA:HB3	1:A:801:ARG:HG2	1.96	0.47
1:A:873:ILE:O	1:A:873:ILE:HG13	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:950:PHE:CE1	2:B:991:GLU:CB	2.97	0.47
3:C:1047:TRP:HA	3:C:1047:TRP:CE3	2.48	0.47
1:D:818:VAL:HG13	1:D:820:ILE:CG2	2.44	0.47
2:E:979:HIS:HD2	2:E:981:VAL:CG1	2.27	0.47
1:G:742:PRO:CD	1:G:774:ALA:HA	2.44	0.47
1:G:755:LEU:HD12	1:G:763:VAL:HG21	1.95	0.47
2:H:948:TYR:HB3	2:H:950:PHE:H	1.79	0.47
1:J:800:ALA:HB3	1:J:801:ARG:HG2	1.96	0.47
1:J:895:PHE:CD2	1:J:899:TYR:CE2	3.02	0.47
2:K:948:TYR:HB3	2:K:950:PHE:H	1.79	0.47
2:K:976:PRO:HB3	2:K:992:THR:OG1	2.14	0.47
3:L:1047:TRP:HA	3:L:1047:TRP:CE3	2.48	0.47
1:M:755:LEU:HD12	1:M:763:VAL:HG21	1.95	0.47
1:M:762:GLN:HA	1:M:790:GLN:HA	1.95	0.47
1:M:895:PHE:CD2	1:M:899:TYR:CE2	3.02	0.47
2:N:950:PHE:CE1	2:N:991:GLU:CB	2.97	0.47
3:O:1047:TRP:HA	3:O:1047:TRP:CE3	2.48	0.47
1:P:762:GLN:HA	1:P:790:GLN:HA	1.95	0.47
1:P:768:SER:O	1:P:783:LYS:HB3	2.14	0.47
1:P:818:VAL:HG13	1:P:820:ILE:CG2	2.43	0.47
2:Q:915:LEU:HD23	2:Q:915:LEU:O	2.13	0.47
1:S:778:VAL:HG22	2:T:916:LYS:NZ	2.29	0.47
1:S:801:ARG:NE	1:V:759:VAL:CG2	2.77	0.47
2:T:965:TYR:OH	1:V:752:GLY:CA	2.58	0.47
1:V:742:PRO:CD	1:V:774:ALA:HA	2.44	0.47
1:V:778:VAL:HG12	1:V:779:ARG:N	2.29	0.47
2:W:915:LEU:HD23	2:W:915:LEU:O	2.13	0.47
2:W:1009:ARG:HE	2:W:1009:ARG:HB2	1.40	0.47
1:Y:725:ARG:N	1:e:807:GLU:OE1	2.47	0.47
1:Y:726:LEU:HD12	1:b:890:ALA:C	2.37	0.47
1:Y:762:GLN:HA	1:Y:790:GLN:HA	1.95	0.47
2:Z:1000:ARG:NH1	3:a:1043:PRO:HG2	2.29	0.47
2:c:950:PHE:CE1	2:c:991:GLU:CB	2.97	0.47
1:e:721:LEU:HD13	1:k:822:SER:O	2.12	0.47
1:e:743:LYS:NZ	1:e:891:ARG:HA	2.28	0.47
1:e:818:VAL:HG13	1:e:818:VAL:O	2.12	0.47
1:e:845:LEU:HB3	1:e:849:ILE:HD11	1.95	0.47
2:f:916:LYS:HB2	2:f:1029:VAL:CG2	2.44	0.47
2:f:924:LYS:HD3	2:f:945:TRP:HD1	1.79	0.47
2:f:976:PRO:HB3	2:f:992:THR:OG1	2.14	0.47
1:h:768:SER:O	1:h:783:LYS:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:828:LEU:HD13	1:k:754:GLU:CD	2.28	0.47
1:k:725:ARG:NH1	1:k:725:ARG:HG3	2.30	0.47
1:k:726:LEU:HB3	1:n:891:ARG:HH11	1.71	0.47
1:k:818:VAL:HG13	1:k:820:ILE:CG2	2.43	0.47
1:n:795:ILE:HD11	1:n:876:THR:O	2.14	0.47
1:n:845:LEU:HB3	1:n:849:ILE:CD1	2.43	0.47
1:n:873:ILE:O	1:n:873:ILE:HG13	2.14	0.47
1:A:845:LEU:HB3	1:A:849:ILE:HD11	1.95	0.47
1:D:795:ILE:HG22	1:D:802:VAL:HA	1.94	0.47
2:H:976:PRO:HB3	2:H:992:THR:OG1	2.14	0.47
1:J:818:VAL:HG13	1:J:820:ILE:CG2	2.43	0.47
1:M:725:ARG:NH1	1:M:725:ARG:HG3	2.29	0.47
2:N:945:TRP:N	2:N:945:TRP:CE3	2.82	0.47
1:P:743:LYS:NZ	1:P:891:ARG:HA	2.28	0.47
2:Q:924:LYS:HD3	2:Q:945:TRP:HD1	1.79	0.47
1:S:795:ILE:HD11	1:S:876:THR:O	2.14	0.47
2:T:974:THR:HG22	2:T:975:LEU:H	1.76	0.47
2:T:976:PRO:HB3	2:T:992:THR:OG1	2.14	0.47
2:T:979:HIS:HD2	2:T:981:VAL:CG1	2.27	0.47
2:T:1000:ARG:O	2:T:1001:LEU:HB2	2.13	0.47
1:V:795:ILE:HG22	1:V:802:VAL:HA	1.94	0.47
2:W:924:LYS:CD	2:W:945:TRP:HD1	2.27	0.47
2:W:995:LYS:CG	2:W:996:GLU:H	2.27	0.47
2:W:1000:ARG:O	2:W:1001:LEU:HB2	2.13	0.47
1:Y:800:ALA:HB3	1:Y:801:ARG:HG2	1.96	0.47
1:Y:902:ALA:HB1	2:Z:912:THR:CG2	2.43	0.47
2:Z:924:LYS:CD	2:Z:945:TRP:HD1	2.27	0.47
2:f:928:TYR:HD2	2:f:1008:VAL:HG12	1.80	0.47
2:f:1000:ARG:O	2:f:1001:LEU:HB2	2.13	0.47
1:h:778:VAL:HG22	2:i:916:LYS:NZ	2.29	0.47
2:i:924:LYS:CD	2:i:945:TRP:HD1	2.27	0.47
2:i:976:PRO:HB3	2:i:992:THR:OG1	2.14	0.47
2:o:945:TRP:N	2:o:945:TRP:CE3	2.82	0.47
2:B:976:PRO:HB3	2:B:992:THR:OG1	2.14	0.47
1:D:743:LYS:O	1:G:810:ARG:NH2	2.48	0.47
1:D:811:ASN:HB3	1:D:816:THR:HB	1.91	0.47
1:G:800:ALA:HB3	1:G:801:ARG:HG2	1.96	0.47
2:H:924:LYS:CD	2:H:945:TRP:HD1	2.27	0.47
2:H:945:TRP:N	2:H:945:TRP:CE3	2.82	0.47
2:H:979:HIS:HD2	2:H:981:VAL:CG1	2.27	0.47
1:J:778:VAL:HG22	2:K:916:LYS:NZ	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:778:VAL:HG12	1:J:779:ARG:N	2.29	0.47
1:J:806:TRP:CD1	1:J:887:ILE:CG1	2.94	0.47
2:K:930:MET:HE3	3:L:1053:VAL:HA	1.97	0.47
2:K:1000:ARG:O	2:K:1001:LEU:HB2	2.13	0.47
1:M:742:PRO:CD	1:M:774:ALA:HA	2.44	0.47
1:M:768:SER:O	1:M:783:LYS:HB3	2.14	0.47
2:N:924:LYS:HD3	2:N:945:TRP:HD1	1.79	0.47
3:O:1057:ILE:HA	3:O:1058:PRO:HD3	1.60	0.47
1:S:725:ARG:NH1	1:S:725:ARG:HG3	2.30	0.47
2:T:915:LEU:HD23	2:T:915:LEU:O	2.13	0.47
2:T:995:LYS:CG	2:T:996:GLU:H	2.27	0.47
1:V:725:ARG:NH1	1:V:725:ARG:HG3	2.30	0.47
1:V:800:ALA:HB3	1:V:801:ARG:HG2	1.96	0.47
2:W:924:LYS:HD3	2:W:945:TRP:HD1	1.79	0.47
2:W:976:PRO:HB3	2:W:992:THR:OG1	2.14	0.47
1:Y:768:SER:O	1:Y:783:LYS:HB3	2.14	0.47
2:Z:987:ILE:HG22	2:Z:988:ILE:N	2.29	0.47
1:b:804:VAL:HG12	1:b:805:LEU:N	2.30	0.47
3:d:1057:ILE:HA	3:d:1058:PRO:HD3	1.60	0.47
2:f:930:MET:HE3	3:g:1053:VAL:CG2	2.44	0.47
2:f:950:PHE:CE1	2:f:991:GLU:CB	2.97	0.47
2:f:987:ILE:HG22	2:f:988:ILE:N	2.29	0.47
1:h:795:ILE:HD11	1:h:876:THR:O	2.14	0.47
1:h:804:VAL:HG12	1:h:805:LEU:N	2.30	0.47
1:h:845:LEU:HB3	1:h:849:ILE:CD1	2.44	0.47
2:i:928:TYR:HD2	2:i:1008:VAL:HG12	1.80	0.47
2:i:945:TRP:N	2:i:945:TRP:CE3	2.82	0.47
1:k:801:ARG:NE	1:n:759:VAL:CG2	2.77	0.47
1:k:833:ILE:HA	1:k:834:PRO:HD3	1.47	0.47
2:l:987:ILE:HG22	2:l:988:ILE:N	2.29	0.47
1:n:800:ALA:HB3	1:n:801:ARG:HG2	1.96	0.47
1:n:804:VAL:HG12	1:n:805:LEU:N	2.30	0.47
1:n:901:LEU:CD2	2:o:909:LYS:HG2	2.44	0.47
2:o:924:LYS:CD	2:o:945:TRP:HD1	2.27	0.47
2:o:956:PRO:HD2	2:o:959:ALA:CB	2.42	0.47
2:o:976:PRO:HB3	2:o:992:THR:OG1	2.14	0.47
2:B:924:LYS:HD3	2:B:945:TRP:HD1	1.79	0.47
2:B:975:LEU:HA	2:B:976:PRO:HD3	1.65	0.47
1:D:725:ARG:NH1	1:D:725:ARG:HG3	2.30	0.47
1:D:725:ARG:N	1:J:807:GLU:OE1	2.47	0.47
2:E:948:TYR:HB3	2:E:950:PHE:H	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:743:LYS:O	1:J:810:ARG:NH2	2.48	0.47
1:J:742:PRO:CD	1:J:774:ALA:HA	2.44	0.47
2:K:949:ARG:HD3	2:K:992:THR:C	2.38	0.47
1:M:721:LEU:HD13	1:S:822:SER:O	2.12	0.47
2:N:949:ARG:HD3	2:N:992:THR:C	2.38	0.47
1:P:800:ALA:HB3	1:P:801:ARG:HG2	1.96	0.47
1:P:828:LEU:O	1:S:753:THR:HG22	2.13	0.47
1:P:902:ALA:HB1	2:Q:912:THR:CG2	2.43	0.47
2:Q:1000:ARG:O	2:Q:1001:LEU:HB2	2.13	0.47
3:X:1041:PRO:HA	3:X:1042:PRO:HD3	1.56	0.47
1:Y:725:ARG:NH1	1:Y:725:ARG:HG3	2.30	0.47
1:Y:778:VAL:HG12	1:Y:779:ARG:N	2.29	0.47
1:b:725:ARG:NH1	1:b:725:ARG:HG3	2.30	0.47
2:c:945:TRP:N	2:c:945:TRP:CE3	2.82	0.47
2:c:987:ILE:HG22	2:c:988:ILE:N	2.29	0.47
1:e:800:ALA:HB3	1:e:801:ARG:HG2	1.96	0.47
2:f:979:HIS:HD2	2:f:981:VAL:CG1	2.27	0.47
2:i:924:LYS:HD3	2:i:945:TRP:HD1	1.79	0.47
1:k:845:LEU:HB3	1:k:849:ILE:HD11	1.95	0.47
2:l:936:MET:HE1	2:l:1004:LYS:CB	2.40	0.47
2:l:950:PHE:CE1	2:l:991:GLU:CB	2.97	0.47
1:n:764:SER:HB2	1:n:786:TRP:CZ3	2.47	0.47
1:A:721:LEU:CD2	1:G:805:LEU:HB2	2.30	0.47
1:A:721:LEU:HD13	1:G:822:SER:O	2.12	0.47
1:A:743:LYS:O	1:D:810:ARG:NH2	2.48	0.47
1:A:778:VAL:HG12	1:A:779:ARG:N	2.29	0.47
1:A:850:MET:HE2	1:A:850:MET:HA	1.96	0.47
1:A:901:LEU:CD2	2:B:909:LYS:HG2	2.44	0.47
2:B:916:LYS:HB2	2:B:1029:VAL:CG2	2.44	0.47
1:D:778:VAL:HG22	2:E:916:LYS:NZ	2.29	0.47
1:D:778:VAL:HG22	2:E:916:LYS:HZ1	1.79	0.47
1:D:901:LEU:HG	1:D:902:ALA:CB	2.39	0.47
2:E:924:LYS:HD3	2:E:945:TRP:HD1	1.79	0.47
2:E:995:LYS:CG	2:E:996:GLU:H	2.27	0.47
3:F:1047:TRP:CE3	3:F:1047:TRP:HA	2.48	0.47
1:G:768:SER:O	1:G:783:LYS:HB3	2.14	0.47
1:G:778:VAL:HG22	2:H:916:LYS:NZ	2.29	0.47
2:H:928:TYR:HD2	2:H:1008:VAL:HG12	1.80	0.47
2:H:930:MET:HE3	3:I:1053:VAL:HA	1.97	0.47
1:J:725:ARG:NH1	1:J:725:ARG:HG3	2.30	0.47
1:J:743:LYS:O	1:M:810:ARG:NH2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:984:ASN:O	2:K:985:ARG:HB3	2.15	0.47
1:M:800:ALA:HB3	1:M:801:ARG:HG2	1.96	0.47
2:N:930:MET:HE3	3:O:1053:VAL:HA	1.97	0.47
2:N:979:HIS:HD2	2:N:981:VAL:CG1	2.27	0.47
2:N:984:ASN:O	2:N:985:ARG:HB3	2.15	0.47
1:P:725:ARG:NH1	1:P:725:ARG:HG3	2.30	0.47
1:P:742:PRO:CD	1:P:774:ALA:HA	2.44	0.47
1:P:795:ILE:HD11	1:P:876:THR:O	2.14	0.47
1:P:801:ARG:NE	1:S:759:VAL:CG2	2.77	0.47
1:P:806:TRP:CD1	1:P:887:ILE:CG1	2.94	0.47
2:Q:948:TYR:HB3	2:Q:950:PHE:H	1.79	0.47
1:S:742:PRO:CD	1:S:774:ALA:HA	2.44	0.47
2:T:949:ARG:HD3	2:T:992:THR:C	2.38	0.47
2:W:916:LYS:HB2	2:W:1029:VAL:CG2	2.44	0.47
2:W:950:PHE:CE1	2:W:991:GLU:CB	2.97	0.47
1:Y:795:ILE:HD11	1:Y:876:THR:O	2.14	0.47
2:Z:948:TYR:HB3	2:Z:950:PHE:H	1.80	0.47
2:Z:995:LYS:CG	2:Z:996:GLU:H	2.27	0.47
2:Z:998:ARG:HD2	2:Z:1000:ARG:HH21	1.73	0.47
1:b:850:MET:HE2	1:b:850:MET:HA	1.96	0.47
2:c:948:TYR:HB3	2:c:950:PHE:H	1.79	0.47
1:h:778:VAL:HG12	1:h:779:ARG:N	2.29	0.47
1:k:845:LEU:HB3	1:k:849:ILE:CD1	2.43	0.47
1:k:901:LEU:CD2	2:l:909:LYS:HG2	2.44	0.47
2:l:945:TRP:N	2:l:945:TRP:CE3	2.82	0.47
2:l:979:HIS:HD2	2:l:981:VAL:CG1	2.27	0.47
1:A:743:LYS:NZ	1:A:891:ARG:HA	2.28	0.47
1:A:759:VAL:CG2	1:n:801:ARG:NE	2.77	0.47
1:A:808:ARG:HH22	1:n:743:LYS:CE	2.28	0.47
1:A:810:ARG:NH2	1:n:743:LYS:O	2.48	0.47
1:D:807:GLU:OE1	1:n:725:ARG:N	2.47	0.47
2:E:930:MET:HE3	3:F:1053:VAL:HA	1.97	0.47
2:E:998:ARG:HD2	2:E:1000:ARG:HH21	1.73	0.47
2:H:984:ASN:O	2:H:985:ARG:HB3	2.15	0.47
2:H:1000:ARG:NH1	3:I:1043:PRO:HG2	2.29	0.47
1:J:725:ARG:N	1:P:807:GLU:OE1	2.47	0.47
1:M:778:VAL:HG22	2:N:916:LYS:NZ	2.29	0.47
1:P:743:LYS:O	1:S:810:ARG:NH2	2.48	0.47
2:Q:930:MET:HE3	3:R:1053:VAL:HA	1.96	0.47
2:Q:979:HIS:HD2	2:Q:981:VAL:CG1	2.27	0.47
1:V:845:LEU:HB3	1:V:849:ILE:CD1	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:979:HIS:HD2	2:W:981:VAL:CG1	2.27	0.47
2:Z:939:ILE:HG21	2:c:969:ALA:HB2	1.95	0.47
2:Z:945:TRP:N	2:Z:945:TRP:CE3	2.82	0.47
2:Z:976:PRO:HB3	2:Z:992:THR:OG1	2.14	0.47
2:Z:984:ASN:O	2:Z:985:ARG:HB3	2.15	0.47
2:Z:1000:ARG:O	2:Z:1001:LEU:HB2	2.13	0.47
1:b:726:LEU:HD12	1:e:890:ALA:C	2.37	0.47
1:b:845:LEU:HB3	1:b:849:ILE:HD11	1.95	0.47
2:c:928:TYR:HD2	2:c:1008:VAL:HG12	1.80	0.47
2:c:979:HIS:HD2	2:c:981:VAL:CG1	2.27	0.47
1:e:725:ARG:N	1:k:807:GLU:OE1	2.47	0.47
1:e:766:ARG:HA	1:e:786:TRP:HA	1.97	0.47
2:f:945:TRP:N	2:f:945:TRP:CE3	2.82	0.47
2:f:952:ARG:HG2	2:f:989:GLU:HG3	1.97	0.47
1:k:724:ALA:C	1:k:725:ARG:HD2	2.38	0.47
1:n:778:VAL:HG22	2:o:916:LYS:NZ	2.29	0.47
1:A:764:SER:HB2	1:A:786:TRP:CZ3	2.47	0.47
1:A:818:VAL:HG13	1:A:820:ILE:CG2	2.43	0.47
1:A:833:ILE:HD13	1:A:885:VAL:CG2	2.38	0.47
2:B:924:LYS:CD	2:B:945:TRP:HD1	2.27	0.47
2:B:948:TYR:HB3	2:B:950:PHE:H	1.80	0.47
2:B:987:ILE:HG22	2:B:988:ILE:N	2.29	0.47
2:B:995:LYS:CG	2:B:996:GLU:H	2.27	0.47
1:D:755:LEU:HD12	1:D:763:VAL:HG21	1.95	0.47
2:E:928:TYR:HD2	2:E:1008:VAL:HG12	1.79	0.47
2:E:987:ILE:HG22	2:E:988:ILE:N	2.29	0.47
1:G:743:LYS:CE	1:J:808:ARG:HH22	2.28	0.47
1:G:778:VAL:HG12	1:G:779:ARG:N	2.29	0.47
1:G:874:PRO:HA	1:G:875:PRO:HD3	1.76	0.47
2:H:953:PHE:N	2:H:987:ILE:HG23	2.30	0.47
2:H:995:LYS:CG	2:H:996:GLU:H	2.27	0.47
1:J:768:SER:O	1:J:783:LYS:HB3	2.14	0.47
1:J:858:LEU:HD23	1:J:858:LEU:N	2.30	0.47
3:L:1041:PRO:HA	3:L:1042:PRO:HD3	1.56	0.47
1:M:729:SER:HB2	1:P:891:ARG:CD	2.42	0.47
1:M:743:LYS:O	1:P:810:ARG:NH2	2.48	0.47
1:M:766:ARG:HA	1:M:786:TRP:HA	1.97	0.47
1:M:901:LEU:CD2	2:N:909:LYS:HG2	2.44	0.47
2:N:995:LYS:CG	2:N:996:GLU:H	2.27	0.47
1:P:724:ALA:C	1:P:725:ARG:HD2	2.38	0.47
1:P:755:LEU:HD12	1:P:763:VAL:HG21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:766:ARG:HA	1:P:786:TRP:HA	1.97	0.47
1:P:839:ALA:HB1	1:P:841:MET:CG	2.45	0.47
1:P:845:LEU:HB3	1:P:849:ILE:CD1	2.43	0.47
2:Q:928:TYR:HD2	2:Q:1008:VAL:HG12	1.80	0.47
2:Q:950:PHE:CE1	2:Q:991:GLU:CB	2.97	0.47
2:Q:984:ASN:O	2:Q:985:ARG:HB3	2.15	0.47
2:Q:995:LYS:CG	2:Q:996:GLU:H	2.27	0.47
1:S:726:LEU:HD22	1:V:891:ARG:CZ	2.44	0.47
1:S:743:LYS:HE2	1:V:808:ARG:HH21	1.78	0.47
1:S:743:LYS:O	1:V:810:ARG:NH2	2.48	0.47
1:S:766:ARG:HA	1:S:786:TRP:HA	1.97	0.47
1:S:795:ILE:HG22	1:S:802:VAL:HA	1.94	0.47
1:S:800:ALA:HB3	1:S:801:ARG:HG2	1.96	0.47
1:S:845:LEU:HB3	1:S:849:ILE:CD1	2.43	0.47
1:S:901:LEU:CD2	2:T:909:LYS:HG2	2.44	0.47
2:T:916:LYS:HB2	2:T:1029:VAL:CG2	2.44	0.47
2:T:924:LYS:HD3	2:T:945:TRP:HD1	1.80	0.47
2:T:928:TYR:HD2	2:T:1008:VAL:HG12	1.80	0.47
1:V:768:SER:O	1:V:783:LYS:HB3	2.14	0.47
1:V:842:TRP:CH2	1:V:846:ARG:HB3	2.50	0.47
1:V:901:LEU:CD2	2:W:909:LYS:HG2	2.44	0.47
1:Y:743:LYS:NZ	1:Y:891:ARG:HA	2.29	0.47
1:Y:766:ARG:HA	1:Y:786:TRP:HA	1.97	0.47
1:Y:842:TRP:CH2	1:Y:846:ARG:HB3	2.50	0.47
1:Y:850:MET:HE2	1:Y:850:MET:HA	1.96	0.47
1:Y:901:LEU:CD2	2:Z:909:LYS:HG2	2.44	0.47
2:Z:952:ARG:HG2	2:Z:989:GLU:HG3	1.97	0.47
1:b:768:SER:O	1:b:783:LYS:HB3	2.14	0.47
1:b:778:VAL:HG12	1:b:779:ARG:N	2.29	0.47
1:b:818:VAL:HG13	1:b:820:ILE:CG2	2.43	0.47
1:b:842:TRP:CH2	1:b:846:ARG:HB3	2.50	0.47
2:c:924:LYS:HD3	2:c:945:TRP:HD1	1.80	0.47
2:c:984:ASN:O	2:c:985:ARG:HB3	2.15	0.47
1:e:721:LEU:CD2	1:k:805:LEU:C	2.75	0.47
1:e:743:LYS:HE2	1:h:808:ARG:HH21	1.78	0.47
1:e:778:VAL:HG12	1:e:779:ARG:N	2.29	0.47
1:e:873:ILE:O	1:e:873:ILE:HG13	2.14	0.47
2:f:924:LYS:CD	2:f:945:TRP:HD1	2.27	0.47
2:f:1000:ARG:NH1	3:g:1043:PRO:HG2	2.29	0.47
1:h:725:ARG:N	1:n:807:GLU:OE1	2.47	0.47
1:h:801:ARG:NE	1:k:759:VAL:CG2	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:811:ASN:HB3	1:h:816:THR:HB	1.91	0.47
1:h:901:LEU:CD2	2:i:909:LYS:HG2	2.44	0.47
2:i:950:PHE:CE1	2:i:991:GLU:CB	2.97	0.47
2:i:956:PRO:HD2	2:i:959:ALA:CB	2.42	0.47
2:i:987:ILE:HG22	2:i:988:ILE:N	2.29	0.47
1:k:766:ARG:HA	1:k:786:TRP:HA	1.97	0.47
1:k:768:SER:O	1:k:783:LYS:HB3	2.14	0.47
1:k:851:ILE:HA	1:k:854:PHE:HD2	1.77	0.47
2:l:928:TYR:HD2	2:l:1008:VAL:HG12	1.80	0.47
2:l:953:PHE:N	2:l:987:ILE:HG23	2.30	0.47
2:l:980:VAL:CG1	1:n:766:ARG:HH12	2.18	0.47
2:l:995:LYS:CG	2:l:996:GLU:H	2.27	0.47
1:n:725:ARG:NH1	1:n:725:ARG:HG3	2.30	0.47
1:n:778:VAL:HG12	1:n:779:ARG:N	2.29	0.47
2:o:950:PHE:CE1	2:o:991:GLU:CB	2.97	0.47
2:o:953:PHE:N	2:o:987:ILE:HG23	2.30	0.47
2:o:987:ILE:HG22	2:o:988:ILE:N	2.29	0.47
2:o:1009:ARG:HE	2:o:1009:ARG:HB2	1.40	0.47
1:A:801:ARG:NE	1:D:759:VAL:CG2	2.77	0.47
1:A:807:GLU:OE1	1:k:725:ARG:N	2.47	0.47
2:B:1000:ARG:NH1	3:C:1043:PRO:HG2	2.29	0.47
1:D:821:ASP:HB2	1:D:891:ARG:HH21	1.80	0.47
1:D:839:ALA:HB1	1:D:841:MET:CG	2.45	0.47
1:G:725:ARG:N	1:M:807:GLU:OE1	2.47	0.47
2:H:949:ARG:HD3	2:H:992:THR:C	2.38	0.47
1:J:873:ILE:O	1:J:873:ILE:HG13	2.14	0.47
2:K:924:LYS:CD	2:K:945:TRP:HD1	2.27	0.47
1:M:858:LEU:HD23	1:M:858:LEU:N	2.30	0.47
2:N:928:TYR:HD2	2:N:1008:VAL:HG12	1.80	0.47
1:P:726:LEU:HD22	1:S:891:ARG:CZ	2.44	0.47
1:P:901:LEU:CD2	2:Q:909:LYS:HG2	2.44	0.47
2:Q:976:PRO:HB3	2:Q:992:THR:OG1	2.14	0.47
2:T:952:ARG:HG2	2:T:989:GLU:HG3	1.97	0.47
1:V:726:LEU:HD22	1:Y:891:ARG:CZ	2.44	0.47
1:Y:724:ALA:C	1:Y:725:ARG:HD2	2.38	0.47
1:Y:734:MET:HE2	1:Y:734:MET:HB2	1.60	0.47
1:b:766:ARG:HA	1:b:786:TRP:HA	1.97	0.47
1:b:845:LEU:HB3	1:b:849:ILE:CD1	2.44	0.47
2:c:930:MET:HE3	3:d:1053:VAL:CG2	2.44	0.47
1:e:842:TRP:CH2	1:e:846:ARG:HB3	2.50	0.47
1:h:726:LEU:HB3	1:k:891:ARG:HH11	1.71	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:787:VAL:HG21	1:h:809:ILE:HG12	1.97	0.47
1:k:787:VAL:HG21	1:k:809:ILE:HG12	1.97	0.47
1:k:828:LEU:HD13	1:n:754:GLU:CD	2.28	0.47
2:l:952:ARG:HG2	2:l:989:GLU:HG3	1.97	0.47
2:o:1000:ARG:NH1	3:p:1043:PRO:HG2	2.29	0.47
1:A:725:ARG:NH1	1:A:725:ARG:HG3	2.30	0.47
1:A:768:SER:O	1:A:783:LYS:HB3	2.14	0.47
2:B:930:MET:HE3	3:C:1053:VAL:HA	1.97	0.47
1:D:743:LYS:CE	1:G:808:ARG:HH22	2.28	0.47
1:D:766:ARG:HA	1:D:786:TRP:HA	1.97	0.47
1:D:778:VAL:HG12	1:D:779:ARG:N	2.29	0.47
1:D:805:LEU:C	1:n:721:LEU:CD2	2.75	0.47
1:D:873:ILE:O	1:D:873:ILE:HG13	2.14	0.47
1:D:901:LEU:CD2	2:E:909:LYS:HG2	2.44	0.47
2:E:965:TYR:OH	1:G:752:GLY:CA	2.58	0.47
1:G:901:LEU:HG	1:G:902:ALA:CB	2.39	0.47
1:J:778:VAL:HG22	2:K:916:LYS:HZ1	1.79	0.47
1:J:901:LEU:CD2	2:K:909:LYS:HG2	2.44	0.47
1:M:850:MET:HE2	1:M:850:MET:HA	1.96	0.47
2:N:987:ILE:HG22	2:N:988:ILE:N	2.29	0.47
2:Q:928:TYR:HH	2:Q:946:ASP:HB3	1.76	0.47
2:Q:935:GLU:HB3	2:Q:1004:LYS:HZ2	1.79	0.47
1:S:768:SER:O	1:S:783:LYS:HB3	2.14	0.47
2:T:930:MET:HE3	3:U:1053:VAL:CG2	2.44	0.47
2:T:950:PHE:CE1	2:T:991:GLU:CB	2.97	0.47
2:W:952:ARG:HG2	2:W:989:GLU:HG3	1.97	0.47
1:Y:845:LEU:HB3	1:Y:849:ILE:HD11	1.95	0.47
1:b:858:LEU:HD23	1:b:858:LEU:N	2.30	0.47
1:b:873:ILE:O	1:b:873:ILE:HG13	2.14	0.47
2:c:952:ARG:HG2	2:c:989:GLU:HG3	1.97	0.47
1:e:725:ARG:NH1	1:e:725:ARG:HG3	2.30	0.47
1:e:726:LEU:HD12	1:h:890:ALA:C	2.37	0.47
2:f:928:TYR:HH	2:f:946:ASP:HB3	1.76	0.47
1:h:839:ALA:HB1	1:h:841:MET:CG	2.45	0.47
1:h:842:TRP:CH2	1:h:846:ARG:HB3	2.50	0.47
2:i:995:LYS:CG	2:i:996:GLU:H	2.27	0.47
2:i:1000:ARG:NH1	3:j:1043:PRO:HG2	2.29	0.47
1:k:858:LEU:HD23	1:k:858:LEU:N	2.30	0.47
1:k:873:ILE:O	1:k:873:ILE:HG13	2.14	0.47
2:l:924:LYS:CD	2:l:945:TRP:HD1	2.27	0.47
2:l:984:ASN:O	2:l:985:ARG:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:n:787:VAL:HG21	1:n:809:ILE:HG12	1.97	0.47
1:n:858:LEU:HD23	1:n:858:LEU:N	2.30	0.47
2:o:948:TYR:HB3	2:o:950:PHE:H	1.80	0.47
1:A:811:ASN:HB3	1:A:816:THR:HB	1.91	0.47
1:D:743:LYS:HE2	1:G:808:ARG:HH21	1.78	0.47
1:D:804:VAL:HG12	1:D:805:LEU:N	2.30	0.47
1:D:850:MET:HE2	1:D:850:MET:HA	1.96	0.47
2:E:953:PHE:N	2:E:987:ILE:HG23	2.30	0.47
1:G:726:LEU:CB	1:J:891:ARG:NH1	2.50	0.47
1:G:766:ARG:HA	1:G:786:TRP:HA	1.97	0.47
1:G:839:ALA:HB1	1:G:841:MET:CG	2.45	0.47
1:G:858:LEU:HD23	1:G:858:LEU:N	2.30	0.47
1:J:766:ARG:HA	1:J:786:TRP:HA	1.97	0.47
1:M:726:LEU:HD22	1:P:891:ARG:CZ	2.44	0.47
1:P:850:MET:HA	1:P:850:MET:HE2	1.96	0.47
2:Q:930:MET:HE3	3:R:1053:VAL:CG2	2.44	0.47
1:S:818:VAL:HG13	1:S:820:ILE:CG2	2.43	0.47
1:S:839:ALA:HB1	1:S:841:MET:CG	2.45	0.47
2:T:930:MET:HE3	3:U:1053:VAL:HA	1.96	0.47
2:T:945:TRP:N	2:T:945:TRP:CE3	2.82	0.47
2:W:930:MET:HE3	3:X:1053:VAL:CG2	2.44	0.47
2:W:948:TYR:HB3	2:W:950:PHE:H	1.80	0.47
1:b:901:LEU:CD2	2:c:909:LYS:HG2	2.44	0.47
1:e:787:VAL:HG21	1:e:809:ILE:HG12	1.97	0.47
1:e:801:ARG:NE	1:h:759:VAL:CG2	2.77	0.47
1:e:839:ALA:HB1	1:e:841:MET:CG	2.45	0.47
1:e:901:LEU:CD2	2:f:909:LYS:HG2	2.44	0.47
1:e:902:ALA:HB1	2:f:912:THR:CG2	2.43	0.47
1:h:766:ARG:HA	1:h:786:TRP:HA	1.97	0.47
1:h:873:ILE:O	1:h:873:ILE:HG13	2.14	0.47
1:k:839:ALA:HB1	1:k:841:MET:CG	2.45	0.47
2:l:1000:ARG:NH1	3:m:1043:PRO:HG2	2.29	0.47
1:n:766:ARG:HA	1:n:786:TRP:HA	1.97	0.47
1:A:806:TRP:CD1	1:A:887:ILE:CG1	2.94	0.46
1:A:851:ILE:CA	1:A:854:PHE:CD2	2.95	0.46
2:E:916:LYS:HB2	2:E:1029:VAL:CG2	2.44	0.46
1:G:873:ILE:O	1:G:873:ILE:HG13	2.14	0.46
2:K:924:LYS:HD3	2:K:945:TRP:HD1	1.79	0.46
2:K:928:TYR:HD2	2:K:1008:VAL:HG12	1.80	0.46
2:K:995:LYS:CG	2:K:996:GLU:H	2.28	0.46
1:M:873:ILE:O	1:M:873:ILE:HG13	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:924:LYS:CD	2:Q:945:TRP:HD1	2.27	0.46
2:T:984:ASN:O	2:T:985:ARG:HB3	2.15	0.46
1:V:766:ARG:HA	1:V:786:TRP:HA	1.97	0.46
2:W:928:TYR:HD2	2:W:1008:VAL:HG12	1.79	0.46
1:Y:726:LEU:HD22	1:b:891:ARG:CZ	2.44	0.46
1:Y:743:LYS:O	1:b:810:ARG:NH2	2.48	0.46
1:Y:858:LEU:HD23	1:Y:858:LEU:N	2.30	0.46
1:e:729:SER:HG	1:h:818:VAL:CG2	2.23	0.46
2:i:916:LYS:HB2	2:i:1029:VAL:CG2	2.44	0.46
2:i:952:ARG:HG2	2:i:989:GLU:HG3	1.97	0.46
2:i:979:HIS:HD2	2:i:981:VAL:CG1	2.27	0.46
1:k:743:LYS:O	1:n:810:ARG:NH2	2.48	0.46
1:k:778:VAL:HG12	1:k:779:ARG:N	2.29	0.46
1:k:842:TRP:CH2	1:k:846:ARG:HB3	2.50	0.46
2:l:916:LYS:HB2	2:l:1029:VAL:CG2	2.44	0.46
1:n:821:ASP:HB2	1:n:891:ARG:HH21	1.80	0.46
2:o:928:TYR:HD2	2:o:1008:VAL:HG12	1.80	0.46
2:o:995:LYS:CG	2:o:996:GLU:H	2.27	0.46
1:A:755:LEU:HD12	1:A:763:VAL:HG21	1.95	0.46
1:A:766:ARG:HA	1:A:786:TRP:HA	1.97	0.46
2:E:928:TYR:HD2	2:E:1008:VAL:CG1	2.29	0.46
1:G:726:LEU:HD22	1:J:891:ARG:CZ	2.44	0.46
1:G:901:LEU:CD2	2:H:909:LYS:HG2	2.44	0.46
1:J:726:LEU:HD22	1:M:891:ARG:CZ	2.44	0.46
1:J:764:SER:HB2	1:J:786:TRP:CZ3	2.47	0.46
1:J:850:MET:HE2	1:J:850:MET:HA	1.96	0.46
1:M:743:LYS:CE	1:P:808:ARG:HH22	2.28	0.46
1:M:764:SER:HB2	1:M:786:TRP:CZ3	2.47	0.46
1:M:821:ASP:HB2	1:M:891:ARG:HH21	1.80	0.46
1:M:833:ILE:HD13	1:M:885:VAL:CG2	2.38	0.46
1:M:839:ALA:HB1	1:M:841:MET:CG	2.45	0.46
1:S:850:MET:HA	1:S:850:MET:HE2	1.96	0.46
2:T:948:TYR:HB3	2:T:950:PHE:H	1.80	0.46
2:T:987:ILE:HG22	2:T:988:ILE:N	2.29	0.46
1:V:850:MET:HE2	1:V:850:MET:HA	1.96	0.46
2:W:928:TYR:HD2	2:W:1008:VAL:CG1	2.29	0.46
2:W:945:TRP:N	2:W:945:TRP:CE3	2.82	0.46
2:Z:930:MET:HE3	3:a:1053:VAL:CG2	2.44	0.46
1:b:726:LEU:HD22	1:e:891:ARG:CZ	2.44	0.46
1:b:839:ALA:HB1	1:b:841:MET:CG	2.45	0.46
2:c:939:ILE:HG21	2:f:969:ALA:HB2	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:743:LYS:O	1:h:810:ARG:NH2	2.48	0.46
2:f:948:TYR:HB3	2:f:950:PHE:H	1.79	0.46
1:h:726:LEU:HD12	1:k:890:ALA:C	2.37	0.46
2:i:984:ASN:O	2:i:985:ARG:HB3	2.15	0.46
1:k:821:ASP:HB2	1:k:891:ARG:HH21	1.80	0.46
1:n:806:TRP:CD1	1:n:887:ILE:CG1	2.94	0.46
1:n:845:LEU:HB3	1:n:849:ILE:HD11	1.95	0.46
1:A:740:THR:HG23	1:A:892:ASP:HB3	1.97	0.46
1:A:821:ASP:C	1:k:721:LEU:HD13	2.41	0.46
2:B:928:TYR:HD2	2:B:1008:VAL:HG12	1.79	0.46
1:D:740:THR:HG23	1:D:892:ASP:HB3	1.97	0.46
1:D:764:SER:HB2	1:D:786:TRP:CZ3	2.47	0.46
1:G:740:THR:HG23	1:G:892:ASP:HB3	1.97	0.46
1:G:842:TRP:CH2	1:G:846:ARG:HB3	2.50	0.46
1:J:723:PRO:HA	1:J:724:ALA:HA	1.62	0.46
2:K:928:TYR:HD2	2:K:1008:VAL:CG1	2.29	0.46
2:N:930:MET:HE3	3:O:1053:VAL:CG2	2.44	0.46
2:Q:945:TRP:N	2:Q:945:TRP:CE3	2.82	0.46
1:S:721:LEU:CD2	1:Y:805:LEU:C	2.75	0.46
1:S:874:PRO:HA	1:S:875:PRO:HD3	1.76	0.46
1:V:804:VAL:HG12	1:V:805:LEU:N	2.30	0.46
1:V:821:ASP:HB2	1:V:891:ARG:HH21	1.80	0.46
2:W:953:PHE:N	2:W:987:ILE:HG23	2.30	0.46
1:Y:804:VAL:HG12	1:Y:805:LEU:N	2.30	0.46
2:c:995:LYS:CG	2:c:996:GLU:H	2.27	0.46
1:h:725:ARG:NH1	1:h:725:ARG:HG3	2.29	0.46
1:h:743:LYS:O	1:k:810:ARG:NH2	2.48	0.46
1:h:901:LEU:CB	1:h:902:ALA:CA	2.93	0.46
2:l:948:TYR:HB3	2:l:950:PHE:H	1.79	0.46
2:o:924:LYS:HD3	2:o:945:TRP:HD1	1.80	0.46
3:p:1041:PRO:HA	3:p:1042:PRO:HD3	1.56	0.46
1:A:726:LEU:HD22	1:D:891:ARG:CZ	2.44	0.46
1:A:757:THR:HG23	1:A:877:LEU:HB3	1.97	0.46
1:A:787:VAL:HG21	1:A:809:ILE:HG12	1.97	0.46
1:D:726:LEU:HD22	1:G:891:ARG:CZ	2.44	0.46
1:D:757:THR:HG23	1:D:877:LEU:HB3	1.97	0.46
2:E:984:ASN:O	2:E:985:ARG:HB3	2.15	0.46
1:G:725:ARG:NH1	1:G:725:ARG:HG3	2.30	0.46
1:J:740:THR:HG23	1:J:892:ASP:HB3	1.97	0.46
1:J:851:ILE:CA	1:J:854:PHE:CD2	2.95	0.46
2:K:987:ILE:HG22	2:K:988:ILE:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:928:TYR:HD2	2:N:1008:VAL:CG1	2.29	0.46
2:N:952:ARG:HG2	2:N:989:GLU:HG3	1.97	0.46
1:P:764:SER:HB2	1:P:786:TRP:CZ3	2.47	0.46
1:P:821:ASP:HB2	1:P:891:ARG:HH21	1.80	0.46
2:Q:952:ARG:HG2	2:Q:989:GLU:HG3	1.97	0.46
1:S:729:SER:HB2	1:V:891:ARG:CD	2.42	0.46
1:S:736:ASN:HD22	1:S:737:PRO:HD2	1.81	0.46
1:V:736:ASN:HD22	1:V:737:PRO:HD2	1.81	0.46
1:V:858:LEU:HD23	1:V:858:LEU:N	2.30	0.46
2:W:984:ASN:O	2:W:985:ARG:HB3	2.15	0.46
1:h:851:ILE:HA	1:h:854:PHE:HD2	1.77	0.46
2:i:948:TYR:HB3	2:i:950:PHE:H	1.79	0.46
1:k:901:LEU:CB	1:k:902:ALA:CA	2.92	0.46
2:o:928:TYR:HD2	2:o:1008:VAL:CG1	2.29	0.46
2:o:952:ARG:HG2	2:o:989:GLU:HG3	1.97	0.46
1:A:743:LYS:CE	1:D:808:ARG:HH22	2.28	0.46
1:A:804:VAL:HG12	1:A:805:LEU:N	2.30	0.46
1:A:810:ARG:HG3	1:A:811:ASN:N	2.31	0.46
1:A:839:ALA:HB1	1:A:841:MET:CG	2.45	0.46
1:A:891:ARG:CZ	1:n:726:LEU:HD22	2.44	0.46
2:B:952:ARG:HG2	2:B:989:GLU:HG3	1.97	0.46
2:B:1022:THR:HG23	2:B:1027:PRO:HA	1.98	0.46
3:F:1057:ILE:HA	3:F:1058:PRO:HD3	1.60	0.46
1:G:764:SER:HB2	1:G:786:TRP:CZ3	2.46	0.46
1:G:818:VAL:HG13	1:G:820:ILE:CG2	2.43	0.46
2:H:998:ARG:HD2	2:H:1000:ARG:HH21	1.73	0.46
2:H:1022:THR:HG23	2:H:1027:PRO:HA	1.98	0.46
1:J:821:ASP:HB2	1:J:891:ARG:HH21	1.80	0.46
1:J:842:TRP:CH2	1:J:846:ARG:HB3	2.50	0.46
1:M:740:THR:HG23	1:M:892:ASP:HB3	1.97	0.46
2:N:1022:THR:HG23	2:N:1027:PRO:HA	1.98	0.46
1:P:723:PRO:HA	1:P:724:ALA:HA	1.62	0.46
1:P:729:SER:HB2	1:S:891:ARG:CD	2.42	0.46
1:S:864:SER:HG	1:V:861:GLN:C	2.23	0.46
1:V:777:LEU:HB3	2:W:916:LYS:NZ	2.31	0.46
1:Y:821:ASP:HB2	1:Y:891:ARG:HH21	1.80	0.46
2:Z:953:PHE:N	2:Z:987:ILE:HG23	2.30	0.46
1:b:787:VAL:HG21	1:b:809:ILE:HG12	1.97	0.46
1:b:806:TRP:CD1	1:b:887:ILE:CG1	2.94	0.46
2:c:1000:ARG:NH1	3:d:1043:PRO:HG2	2.29	0.46
1:e:804:VAL:HG12	1:e:805:LEU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:821:ASP:HB2	1:e:891:ARG:HH21	1.80	0.46
2:f:928:TYR:HD2	2:f:1008:VAL:CG1	2.29	0.46
2:f:955:PHE:HD1	2:f:955:PHE:HA	1.56	0.46
1:h:721:LEU:HD13	1:n:821:ASP:C	2.41	0.46
2:i:928:TYR:HD2	2:i:1008:VAL:CG1	2.29	0.46
1:k:726:LEU:HD22	1:n:891:ARG:CZ	2.44	0.46
1:k:811:ASN:HB3	1:k:816:THR:HB	1.91	0.46
2:l:954:GLU:HG3	2:l:987:ILE:CG1	2.46	0.46
1:n:734:MET:H	1:n:734:MET:HG3	1.42	0.46
1:n:740:THR:HG23	1:n:892:ASP:HB3	1.97	0.46
1:n:811:ASN:HB3	1:n:816:THR:HB	1.91	0.46
2:o:930:MET:HE3	3:p:1053:VAL:HA	1.96	0.46
1:A:746:MET:HB3	1:A:886:SER:HG	1.80	0.46
1:A:858:LEU:HD23	1:A:858:LEU:N	2.30	0.46
1:D:821:ASP:C	1:n:721:LEU:HD13	2.41	0.46
1:G:804:VAL:HG12	1:G:805:LEU:N	2.30	0.46
1:G:821:ASP:HB2	1:G:891:ARG:HH21	1.80	0.46
2:Q:928:TYR:HD2	2:Q:1008:VAL:CG1	2.29	0.46
2:Q:953:PHE:N	2:Q:987:ILE:HG23	2.30	0.46
2:Q:987:ILE:HG22	2:Q:988:ILE:N	2.29	0.46
1:S:804:VAL:HG12	1:S:805:LEU:N	2.30	0.46
1:S:858:LEU:HD23	1:S:858:LEU:N	2.30	0.46
2:W:930:MET:HE3	3:X:1053:VAL:HA	1.97	0.46
1:Y:777:LEU:HB3	2:Z:916:LYS:NZ	2.31	0.46
2:Z:928:TYR:HD2	2:Z:1008:VAL:HG12	1.79	0.46
1:b:743:LYS:O	1:e:810:ARG:NH2	2.48	0.46
1:e:726:LEU:HD22	1:h:891:ARG:CZ	2.44	0.46
1:h:726:LEU:HD22	1:k:891:ARG:CZ	2.44	0.46
2:l:939:ILE:HG21	2:o:969:ALA:HB2	1.95	0.46
2:l:1022:THR:HG23	2:l:1027:PRO:HA	1.98	0.46
1:n:723:PRO:HA	1:n:724:ALA:HA	1.62	0.46
1:n:736:ASN:HD22	1:n:737:PRO:HD2	1.81	0.46
1:n:839:ALA:HB1	1:n:841:MET:CG	2.45	0.46
2:o:984:ASN:O	2:o:985:ARG:HB3	2.15	0.46
2:B:953:PHE:N	2:B:987:ILE:HG23	2.30	0.46
2:E:1022:THR:HG23	2:E:1027:PRO:HA	1.98	0.46
1:G:810:ARG:HG3	1:G:811:ASN:N	2.31	0.46
1:G:850:MET:HE2	1:G:850:MET:HA	1.96	0.46
2:H:924:LYS:HD3	2:H:945:TRP:HD1	1.80	0.46
2:H:987:ILE:HG22	2:H:988:ILE:N	2.29	0.46
1:J:864:SER:HG	1:M:861:GLN:C	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:930:MET:HE3	3:L:1053:VAL:CG2	2.44	0.46
2:K:953:PHE:N	2:K:987:ILE:HG23	2.30	0.46
1:M:725:ARG:N	1:S:807:GLU:OE1	2.47	0.46
1:P:740:THR:HG23	1:P:892:ASP:HB3	1.97	0.46
1:P:743:LYS:CE	1:S:808:ARG:HH22	2.28	0.46
1:P:804:VAL:HG12	1:P:805:LEU:N	2.30	0.46
1:P:858:LEU:HD23	1:P:858:LEU:N	2.30	0.46
2:Q:965:TYR:OH	1:S:752:GLY:CA	2.58	0.46
2:Q:1022:THR:HG23	2:Q:1027:PRO:HA	1.98	0.46
1:S:821:ASP:HB2	1:S:891:ARG:HH21	1.80	0.46
2:T:953:PHE:N	2:T:987:ILE:HG23	2.30	0.46
2:T:1022:THR:HG23	2:T:1027:PRO:HA	1.98	0.46
2:T:1033:GLN:HG2	2:T:1034:ILE:N	2.31	0.46
1:V:721:LEU:HD13	1:b:821:ASP:C	2.41	0.46
1:Y:736:ASN:HD22	1:Y:737:PRO:HD2	1.81	0.46
1:Y:839:ALA:HB1	1:Y:841:MET:CG	2.45	0.46
2:Z:979:HIS:HD2	2:Z:981:VAL:CG1	2.27	0.46
1:b:821:ASP:HB2	1:b:891:ARG:HH21	1.80	0.46
2:c:928:TYR:HD2	2:c:1008:VAL:CG1	2.29	0.46
2:c:953:PHE:N	2:c:987:ILE:HG23	2.30	0.46
1:e:726:LEU:HB3	1:h:891:ARG:HH11	1.71	0.46
1:e:901:LEU:CB	1:e:902:ALA:CA	2.93	0.46
2:f:953:PHE:N	2:f:987:ILE:HG23	2.30	0.46
1:k:736:ASN:HD22	1:k:737:PRO:HD2	1.81	0.46
1:k:740:THR:HG23	1:k:892:ASP:HB3	1.97	0.46
2:l:924:LYS:HD3	2:l:945:TRP:HD1	1.79	0.46
1:n:842:TRP:CH2	1:n:846:ARG:HB3	2.50	0.46
2:o:984:ASN:C	2:o:986:ASN:H	2.24	0.46
1:A:754:GLU:CD	1:n:828:LEU:HD13	2.28	0.46
1:D:756:ASP:HB3	1:D:758:THR:HB	1.98	0.46
1:D:833:ILE:HD13	1:D:885:VAL:CG2	2.38	0.46
2:E:952:ARG:HG2	2:E:989:GLU:HG3	1.97	0.46
1:G:756:ASP:HB3	1:G:758:THR:HB	1.98	0.46
1:J:756:ASP:HB3	1:J:758:THR:HB	1.98	0.46
1:J:833:ILE:HD13	1:J:885:VAL:CG2	2.38	0.46
1:J:901:LEU:HG	1:J:902:ALA:CB	2.39	0.46
2:K:952:ARG:HG2	2:K:989:GLU:HG3	1.97	0.46
2:K:954:GLU:HG3	2:K:987:ILE:CG1	2.46	0.46
2:K:1022:THR:HG23	2:K:1027:PRO:HA	1.98	0.46
1:M:747:ILE:HD11	1:M:889:VAL:HG21	1.98	0.46
2:N:954:GLU:HG3	2:N:987:ILE:CG1	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:736:ASN:HD22	1:P:737:PRO:HD2	1.81	0.46
1:P:747:ILE:HD11	1:P:889:VAL:HG21	1.98	0.46
1:P:873:ILE:O	1:P:873:ILE:HG13	2.14	0.46
1:S:734:MET:H	1:S:734:MET:HG3	1.42	0.46
1:V:743:LYS:O	1:Y:810:ARG:NH2	2.48	0.46
1:V:839:ALA:HB1	1:V:841:MET:CG	2.45	0.46
1:V:851:ILE:HA	1:V:854:PHE:HD2	1.77	0.46
1:Y:873:ILE:O	1:Y:873:ILE:HG13	2.14	0.46
2:Z:924:LYS:HD3	2:Z:945:TRP:HD1	1.79	0.46
2:Z:928:TYR:HD2	2:Z:1008:VAL:CG1	2.29	0.46
1:b:864:SER:HG	1:e:861:GLN:C	2.23	0.46
2:c:1033:GLN:HG2	2:c:1034:ILE:N	2.31	0.46
2:f:930:MET:HE3	3:g:1053:VAL:HA	1.97	0.46
2:f:984:ASN:O	2:f:985:ARG:HB3	2.15	0.46
1:h:777:LEU:HB3	2:i:916:LYS:NZ	2.31	0.46
2:i:939:ILE:HG21	2:l:969:ALA:HB2	1.95	0.46
2:i:953:PHE:N	2:i:987:ILE:HG23	2.30	0.46
3:j:1057:ILE:HG23	3:j:1058:PRO:CD	2.43	0.46
1:k:804:VAL:HG12	1:k:805:LEU:N	2.30	0.46
1:k:902:ALA:HB1	2:l:912:THR:CG2	2.43	0.46
2:l:928:TYR:HD2	2:l:1008:VAL:CG1	2.29	0.46
1:A:721:LEU:HD13	1:G:821:ASP:C	2.41	0.46
1:D:858:LEU:HD23	1:D:858:LEU:N	2.30	0.46
2:E:984:ASN:C	2:E:986:ASN:H	2.24	0.46
2:E:1033:GLN:HG2	2:E:1034:ILE:N	2.31	0.46
1:G:721:LEU:HD13	1:M:821:ASP:C	2.41	0.46
1:J:804:VAL:HG12	1:J:805:LEU:N	2.30	0.46
1:J:826:ASN:ND2	1:J:827:SER:H	2.14	0.46
2:K:998:ARG:HD2	2:K:1000:ARG:HH21	1.73	0.46
1:M:851:ILE:HA	1:M:854:PHE:HD2	1.77	0.46
1:M:864:SER:HG	1:P:861:GLN:C	2.23	0.46
1:P:833:ILE:HA	1:P:834:PRO:HD3	1.47	0.46
1:S:747:ILE:HD11	1:S:889:VAL:HG21	1.98	0.46
1:V:826:ASN:ND2	1:V:827:SER:H	2.14	0.46
2:W:935:GLU:HB3	2:W:1004:LYS:HZ2	1.80	0.46
1:Y:721:LEU:HD13	1:e:821:ASP:C	2.41	0.46
2:Z:948:TYR:HB3	2:Z:949:ARG:H	1.60	0.46
1:e:858:LEU:HD23	1:e:858:LEU:N	2.30	0.46
2:f:965:TYR:HA	2:f:976:PRO:CG	2.46	0.46
2:f:995:LYS:CG	2:f:996:GLU:H	2.28	0.46
3:g:1057:ILE:HA	3:g:1058:PRO:HD3	1.60	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:721:LEU:CD2	1:n:805:LEU:C	2.75	0.46
1:h:757:THR:HG23	1:h:877:LEU:HB3	1.97	0.46
2:i:955:PHE:HD1	2:i:955:PHE:HA	1.56	0.46
1:k:726:LEU:HD12	1:n:890:ALA:C	2.37	0.46
1:k:743:LYS:CE	1:n:808:ARG:HH22	2.28	0.46
2:l:930:MET:HE3	3:m:1053:VAL:HA	1.96	0.46
3:m:1057:ILE:HG23	3:m:1058:PRO:CD	2.43	0.46
1:n:826:ASN:ND2	1:n:827:SER:H	2.14	0.46
2:o:916:LYS:HB2	2:o:1029:VAL:CG2	2.44	0.46
2:o:954:GLU:HG3	2:o:987:ILE:CG1	2.46	0.46
2:o:1022:THR:HG23	2:o:1027:PRO:HA	1.98	0.46
1:A:826:ASN:ND2	1:A:827:SER:H	2.14	0.46
1:A:901:LEU:CB	1:A:902:ALA:CA	2.93	0.46
3:F:1059:VAL:HG13	3:F:1060:ASP:O	2.17	0.46
1:G:757:THR:HG23	1:G:877:LEU:HB3	1.97	0.46
2:H:965:TYR:HA	2:H:976:PRO:CG	2.46	0.46
1:J:721:LEU:HD13	1:P:821:ASP:C	2.41	0.46
1:J:747:ILE:HD11	1:J:889:VAL:HG21	1.98	0.46
1:M:756:ASP:HB3	1:M:758:THR:HB	1.98	0.46
1:M:804:VAL:HG12	1:M:805:LEU:N	2.30	0.46
1:M:842:TRP:CH2	1:M:846:ARG:HB3	2.50	0.46
2:Q:954:GLU:HG3	2:Q:987:ILE:CG1	2.46	0.46
2:Q:982:GLY:HA3	2:Q:985:ARG:H	1.81	0.46
1:S:757:THR:HG23	1:S:877:LEU:HB3	1.97	0.46
1:V:747:ILE:HD11	1:V:889:VAL:HG21	1.98	0.46
3:X:1057:ILE:HD13	3:X:1057:ILE:HA	1.70	0.46
2:Z:930:MET:HE3	3:a:1053:VAL:HA	1.97	0.46
2:c:930:MET:HE3	3:d:1053:VAL:HA	1.97	0.46
2:c:1009:ARG:HE	2:c:1009:ARG:HB2	1.40	0.46
1:e:826:ASN:ND2	1:e:827:SER:H	2.14	0.46
2:f:939:ILE:HG21	2:i:969:ALA:HB2	1.95	0.46
1:h:864:SER:HG	1:k:861:GLN:C	2.23	0.46
2:i:916:LYS:HA	2:i:1028:ASP:OD2	2.16	0.46
2:i:954:GLU:HG3	2:i:987:ILE:CG1	2.46	0.46
2:i:965:TYR:HA	2:i:976:PRO:CG	2.46	0.46
1:k:777:LEU:HB3	2:l:916:LYS:NZ	2.31	0.46
1:k:810:ARG:HG3	1:k:811:ASN:N	2.31	0.46
2:l:967:ILE:HD13	2:l:967:ILE:HA	1.80	0.46
1:n:901:LEU:CB	1:n:902:ALA:CA	2.93	0.46
2:B:965:TYR:HA	2:B:976:PRO:CG	2.46	0.45
1:D:721:LEU:HD13	1:J:821:ASP:C	2.41	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:724:ALA:C	1:D:725:ARG:HD2	2.38	0.45
1:D:747:ILE:HD11	1:D:889:VAL:HG21	1.98	0.45
1:D:826:ASN:ND2	1:D:827:SER:H	2.14	0.45
2:H:984:ASN:C	2:H:986:ASN:H	2.24	0.45
1:J:810:ARG:HG3	1:J:811:ASN:N	2.31	0.45
1:J:839:ALA:HB1	1:J:841:MET:CG	2.45	0.45
2:K:965:TYR:HA	2:K:976:PRO:CG	2.46	0.45
1:M:736:ASN:HD22	1:M:737:PRO:HD2	1.81	0.45
1:M:826:ASN:ND2	1:M:827:SER:H	2.14	0.45
2:N:953:PHE:N	2:N:987:ILE:HG23	2.30	0.45
1:P:756:ASP:HB3	1:P:758:THR:HB	1.98	0.45
1:P:777:LEU:HB3	2:Q:916:LYS:NZ	2.31	0.45
2:Q:916:LYS:HA	2:Q:1028:ASP:OD2	2.16	0.45
1:S:721:LEU:HD13	1:Y:821:ASP:C	2.41	0.45
1:S:740:THR:HG23	1:S:892:ASP:HB3	1.97	0.45
1:S:742:PRO:HG2	1:S:774:ALA:HA	1.98	0.45
1:S:764:SER:HB2	1:S:786:TRP:CZ3	2.47	0.45
2:T:998:ARG:HD2	2:T:1000:ARG:HH21	1.73	0.45
2:W:916:LYS:HA	2:W:1028:ASP:OD2	2.16	0.45
1:Y:757:THR:HG23	1:Y:877:LEU:HB3	1.97	0.45
2:Z:1033:GLN:HG2	2:Z:1034:ILE:N	2.31	0.45
1:h:802:VAL:HG22	1:h:803:PHE:O	2.17	0.45
2:i:1022:THR:HG23	2:i:1027:PRO:HA	1.98	0.45
1:k:903:ASP:HB2	1:k:904:ASN:HA	1.99	0.45
2:l:965:TYR:HA	2:l:976:PRO:CG	2.46	0.45
1:A:736:ASN:HD22	1:A:737:PRO:HD2	1.81	0.45
1:A:747:ILE:HD11	1:A:889:VAL:HG21	1.98	0.45
1:A:756:ASP:HB3	1:A:758:THR:HB	1.98	0.45
1:A:821:ASP:HB2	1:A:891:ARG:HH21	1.80	0.45
1:A:902:ALA:HB1	2:B:912:THR:CG2	2.43	0.45
2:B:928:TYR:HD2	2:B:1008:VAL:CG1	2.29	0.45
1:D:742:PRO:HG2	1:D:774:ALA:HA	1.98	0.45
1:D:903:ASP:HB2	1:D:904:ASN:HA	1.99	0.45
2:E:965:TYR:HA	2:E:976:PRO:CG	2.46	0.45
1:G:742:PRO:HG2	1:G:774:ALA:HA	1.98	0.45
1:G:747:ILE:HD11	1:G:889:VAL:HG21	1.98	0.45
1:G:833:ILE:HD13	1:G:885:VAL:CG2	2.38	0.45
2:K:916:LYS:HA	2:K:1028:ASP:OD2	2.16	0.45
3:L:1057:ILE:HA	3:L:1058:PRO:HD3	1.60	0.45
1:M:721:LEU:HD13	1:S:821:ASP:C	2.41	0.45
2:N:984:ASN:C	2:N:986:ASN:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:742:PRO:HG2	1:P:774:ALA:HA	1.98	0.45
1:S:736:ASN:HA	1:S:737:PRO:HD3	1.76	0.45
1:S:826:ASN:ND2	1:S:827:SER:H	2.14	0.45
2:T:1009:ARG:HE	2:T:1009:ARG:HB2	1.40	0.45
1:V:802:VAL:HG22	1:V:803:PHE:O	2.17	0.45
2:W:998:ARG:HD2	2:W:1000:ARG:HH21	1.73	0.45
2:Z:982:GLY:HA3	2:Z:985:ARG:H	1.81	0.45
2:c:965:TYR:HA	2:c:976:PRO:CG	2.46	0.45
1:e:743:LYS:CE	1:h:808:ARG:HH22	2.28	0.45
1:e:757:THR:HG23	1:e:877:LEU:HB3	1.97	0.45
1:h:736:ASN:HD22	1:h:737:PRO:HD2	1.81	0.45
1:h:740:THR:HG23	1:h:892:ASP:HB3	1.97	0.45
1:h:742:PRO:HG2	1:h:774:ALA:HA	1.98	0.45
2:i:930:MET:HE3	3:j:1053:VAL:HA	1.97	0.45
1:k:725:ARG:HH11	1:k:725:ARG:HG3	1.81	0.45
1:k:864:SER:HG	1:n:861:GLN:C	2.23	0.45
1:n:757:THR:HG23	1:n:877:LEU:HB3	1.97	0.45
2:B:916:LYS:HA	2:B:1028:ASP:OD2	2.16	0.45
3:C:1059:VAL:HG13	3:C:1060:ASP:O	2.16	0.45
1:D:730:ARG:HE	1:D:730:ARG:HB3	1.68	0.45
1:D:736:ASN:HA	1:D:737:PRO:HD3	1.76	0.45
1:G:725:ARG:HH11	1:G:725:ARG:HG3	1.81	0.45
1:G:864:SER:HG	1:J:861:GLN:C	2.23	0.45
2:H:930:MET:HE3	3:I:1053:VAL:CG2	2.44	0.45
2:H:952:ARG:HG2	2:H:989:GLU:HG3	1.97	0.45
3:I:1061:THR:HB	3:I:1062:GLN:H	1.56	0.45
1:P:725:ARG:N	1:V:807:GLU:OE1	2.47	0.45
1:P:826:ASN:ND2	1:P:827:SER:H	2.14	0.45
3:R:1059:VAL:HG13	3:R:1060:ASP:O	2.16	0.45
1:S:777:LEU:HB3	2:T:916:LYS:NZ	2.31	0.45
1:S:802:VAL:HG22	1:S:803:PHE:O	2.16	0.45
2:W:954:GLU:HG3	2:W:987:ILE:CG1	2.46	0.45
2:Z:1022:THR:HG23	2:Z:1027:PRO:HA	1.98	0.45
1:b:725:ARG:N	1:h:807:GLU:OE1	2.47	0.45
1:b:828:LEU:O	1:e:753:THR:HG23	2.17	0.45
2:c:1022:THR:HG23	2:c:1027:PRO:HA	1.98	0.45
1:e:903:ASP:HB2	1:e:904:ASN:HA	1.99	0.45
2:f:1022:THR:HG23	2:f:1027:PRO:HA	1.98	0.45
2:f:1033:GLN:HG2	2:f:1034:ILE:N	2.31	0.45
1:h:724:ALA:C	1:h:725:ARG:HD2	2.38	0.45
1:h:858:LEU:HD23	1:h:858:LEU:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:935:GLU:HB3	2:i:1004:LYS:HZ3	1.81	0.45
2:i:1009:ARG:HE	2:i:1009:ARG:HB2	1.40	0.45
3:j:1061:THR:HB	3:j:1062:GLN:H	1.56	0.45
1:k:742:PRO:HG2	1:k:774:ALA:HA	1.98	0.45
1:k:757:THR:HG23	1:k:877:LEU:HB3	1.97	0.45
1:k:802:VAL:HG22	1:k:803:PHE:O	2.17	0.45
2:l:941:PRO:HA	2:l:955:PHE:CE1	2.51	0.45
1:n:725:ARG:HH11	1:n:725:ARG:HG3	1.81	0.45
1:n:777:LEU:HB3	2:o:916:LYS:NZ	2.31	0.45
1:n:802:VAL:CG2	1:n:803:PHE:H	2.26	0.45
2:o:941:PRO:HA	2:o:955:PHE:CE1	2.51	0.45
2:B:941:PRO:HA	2:B:955:PHE:CE1	2.51	0.45
1:D:787:VAL:HG21	1:D:809:ILE:HG12	1.97	0.45
1:D:802:VAL:CG2	1:D:803:PHE:H	2.26	0.45
1:D:869:SER:O	1:D:872:SER:HB3	2.17	0.45
1:G:902:ALA:HB1	2:H:912:THR:CG2	2.43	0.45
2:H:916:LYS:HB2	2:H:1029:VAL:CG2	2.44	0.45
2:H:916:LYS:HA	2:H:1028:ASP:OD2	2.16	0.45
2:H:954:GLU:HG3	2:H:987:ILE:CG1	2.46	0.45
2:H:980:VAL:CG1	1:J:766:ARG:HH12	2.18	0.45
2:H:1033:GLN:HG2	2:H:1034:ILE:N	2.31	0.45
3:I:1059:VAL:HG13	3:I:1060:ASP:O	2.16	0.45
1:J:725:ARG:HH11	1:J:725:ARG:HG3	1.81	0.45
1:J:736:ASN:HD22	1:J:737:PRO:HD2	1.81	0.45
1:J:895:PHE:HD2	1:J:899:TYR:CE2	2.35	0.45
1:J:903:ASP:HB2	1:J:904:ASN:HA	1.99	0.45
2:N:916:LYS:HA	2:N:1028:ASP:OD2	2.16	0.45
2:N:982:GLY:HA3	2:N:985:ARG:H	1.81	0.45
1:P:895:PHE:HD2	1:P:899:TYR:CE2	2.35	0.45
1:S:725:ARG:N	1:Y:807:GLU:OE1	2.47	0.45
1:S:727:LYS:HG2	1:S:727:LYS:O	2.05	0.45
1:S:833:ILE:HA	1:S:834:PRO:HD3	1.47	0.45
2:T:916:LYS:HA	2:T:1028:ASP:OD2	2.16	0.45
2:T:928:TYR:HD2	2:T:1008:VAL:CG1	2.29	0.45
2:T:954:GLU:HG3	2:T:987:ILE:CG1	2.46	0.45
2:W:980:VAL:CG1	1:Y:766:ARG:HH12	2.18	0.45
2:W:1022:THR:HG23	2:W:1027:PRO:HA	1.98	0.45
2:W:1033:GLN:HG2	2:W:1034:ILE:N	2.31	0.45
1:Y:721:LEU:CD1	1:e:822:SER:C	2.84	0.45
2:Z:954:GLU:HG3	2:Z:987:ILE:CG1	2.46	0.45
1:e:742:PRO:HG2	1:e:774:ALA:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:802:VAL:HG22	1:e:803:PHE:O	2.17	0.45
1:h:743:LYS:CE	1:k:808:ARG:HH22	2.28	0.45
1:h:821:ASP:HB2	1:h:891:ARG:HH21	1.80	0.45
1:h:826:ASN:ND2	1:h:827:SER:H	2.14	0.45
1:h:869:SER:O	1:h:872:SER:HB3	2.17	0.45
1:n:903:ASP:HB2	1:n:904:ASN:HA	1.99	0.45
3:p:1057:ILE:HG23	3:p:1058:PRO:CD	2.43	0.45
1:A:725:ARG:HH11	1:A:725:ARG:HG3	1.81	0.45
1:A:903:ASP:HB2	1:A:904:ASN:HA	1.99	0.45
2:B:954:GLU:HG3	2:B:987:ILE:CG1	2.46	0.45
2:E:916:LYS:HA	2:E:1028:ASP:OD2	2.16	0.45
1:G:869:SER:O	1:G:872:SER:HB3	2.17	0.45
1:G:895:PHE:HD2	1:G:899:TYR:CE2	2.35	0.45
1:G:903:ASP:HB2	1:G:904:ASN:HA	1.99	0.45
2:H:928:TYR:HD2	2:H:1008:VAL:CG1	2.29	0.45
3:I:1041:PRO:HA	3:I:1042:PRO:HD3	1.56	0.45
1:J:743:LYS:CE	1:M:808:ARG:HH22	2.28	0.45
1:M:895:PHE:HD2	1:M:899:TYR:CE2	2.35	0.45
1:M:903:ASP:HB2	1:M:904:ASN:HA	1.99	0.45
1:P:810:ARG:HG3	1:P:811:ASN:N	2.31	0.45
1:S:756:ASP:HB3	1:S:758:THR:HB	1.98	0.45
1:V:740:THR:HG23	1:V:892:ASP:HB3	1.97	0.45
1:V:895:PHE:HD2	1:V:899:TYR:CE2	2.35	0.45
2:W:987:ILE:HG22	2:W:988:ILE:N	2.29	0.45
1:Y:747:ILE:HD11	1:Y:889:VAL:HG21	1.98	0.45
2:Z:916:LYS:HA	2:Z:1028:ASP:OD2	2.16	0.45
2:Z:935:GLU:HB3	2:Z:1004:LYS:HZ2	1.82	0.45
3:a:1059:VAL:HG13	3:a:1060:ASP:O	2.17	0.45
1:b:723:PRO:HA	1:b:724:ALA:HA	1.62	0.45
1:b:777:LEU:HB3	2:c:916:LYS:NZ	2.31	0.45
1:b:901:LEU:CB	1:b:902:ALA:CA	2.93	0.45
2:c:916:LYS:HA	2:c:1028:ASP:OD2	2.16	0.45
2:c:954:GLU:HG3	2:c:987:ILE:CG1	2.46	0.45
2:c:982:GLY:HA3	2:c:985:ARG:H	1.81	0.45
3:d:1059:VAL:HG13	3:d:1060:ASP:O	2.16	0.45
1:e:721:LEU:HD13	1:k:821:ASP:C	2.41	0.45
1:e:828:LEU:O	1:h:753:THR:HG23	2.17	0.45
1:e:869:SER:O	1:e:872:SER:HB3	2.17	0.45
2:f:916:LYS:HA	2:f:1028:ASP:OD2	2.16	0.45
2:f:941:PRO:HA	2:f:955:PHE:CE1	2.51	0.45
1:h:727:LYS:HG2	1:h:727:LYS:O	2.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:806:TRP:CD1	1:k:887:ILE:CG1	2.94	0.45
1:k:895:PHE:HD2	1:k:899:TYR:CE2	2.35	0.45
2:l:984:ASN:C	2:l:986:ASN:H	2.24	0.45
1:A:842:TRP:CH2	1:A:846:ARG:HB3	2.50	0.45
1:A:887:ILE:HG22	1:A:889:VAL:N	2.32	0.45
2:B:1033:GLN:HG2	2:B:1034:ILE:N	2.31	0.45
1:D:725:ARG:HH11	1:D:725:ARG:HG3	1.81	0.45
1:D:810:ARG:HG3	1:D:811:ASN:N	2.31	0.45
1:G:826:ASN:ND2	1:G:827:SER:H	2.14	0.45
2:H:948:TYR:HB3	2:H:949:ARG:H	1.60	0.45
2:N:936:MET:HE1	2:N:1004:LYS:CB	2.40	0.45
2:N:998:ARG:HD2	2:N:1000:ARG:HH21	1.73	0.45
3:O:1041:PRO:HA	3:O:1042:PRO:HD3	1.56	0.45
1:P:729:SER:HG	1:S:818:VAL:HG22	1.72	0.45
1:P:850:MET:HE3	1:P:850:MET:HB2	1.75	0.45
2:Q:998:ARG:HD2	2:Q:1000:ARG:HH21	1.73	0.45
1:S:806:TRP:CD1	1:S:887:ILE:CG1	2.94	0.45
2:T:965:TYR:HA	2:T:976:PRO:CG	2.46	0.45
3:U:1059:VAL:HG13	3:U:1060:ASP:O	2.16	0.45
1:V:742:PRO:HG2	1:V:774:ALA:HA	1.98	0.45
3:X:1059:VAL:HG13	3:X:1060:ASP:O	2.16	0.45
1:b:721:LEU:HD13	1:h:821:ASP:C	2.41	0.45
1:b:736:ASN:HD22	1:b:737:PRO:HD2	1.81	0.45
1:b:740:THR:HG23	1:b:892:ASP:HB3	1.97	0.45
1:b:743:LYS:CE	1:e:808:ARG:HH22	2.28	0.45
2:c:941:PRO:HA	2:c:955:PHE:CE1	2.51	0.45
1:e:726:LEU:CB	1:h:891:ARG:NH1	2.50	0.45
1:e:740:THR:HG23	1:e:892:ASP:HB3	1.97	0.45
1:h:810:ARG:HG3	1:h:811:ASN:N	2.31	0.45
1:h:903:ASP:HB2	1:h:904:ASN:HA	1.99	0.45
2:i:941:PRO:HA	2:i:955:PHE:CE1	2.52	0.45
2:i:1033:GLN:HG2	2:i:1034:ILE:N	2.31	0.45
2:l:916:LYS:HA	2:l:1028:ASP:OD2	2.16	0.45
1:n:742:PRO:HG2	1:n:774:ALA:HA	1.98	0.45
1:n:747:ILE:HD11	1:n:889:VAL:HG21	1.98	0.45
1:A:734:MET:H	1:A:734:MET:HG3	1.42	0.45
1:D:895:PHE:HD2	1:D:899:TYR:CE2	2.35	0.45
2:E:941:PRO:HA	2:E:955:PHE:CE1	2.51	0.45
1:G:736:ASN:HD22	1:G:737:PRO:HD2	1.81	0.45
2:H:941:PRO:HA	2:H:955:PHE:CE1	2.51	0.45
2:K:936:MET:HE1	2:K:1004:LYS:CB	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:787:VAL:HG21	1:M:809:ILE:HG12	1.97	0.45
1:M:810:ARG:HG3	1:M:811:ASN:N	2.31	0.45
2:N:1033:GLN:HG2	2:N:1034:ILE:N	2.31	0.45
1:P:864:SER:HG	1:S:861:GLN:C	2.23	0.45
1:P:903:ASP:HB2	1:P:904:ASN:HA	1.99	0.45
1:S:895:PHE:HD2	1:S:899:TYR:CE2	2.35	0.45
2:T:982:GLY:HA3	2:T:985:ARG:H	1.81	0.45
1:V:721:LEU:CD2	1:b:822:SER:O	2.61	0.45
1:V:721:LEU:CD1	1:b:822:SER:C	2.84	0.45
2:W:982:GLY:HA3	2:W:985:ARG:H	1.81	0.45
1:Y:730:ARG:HE	1:Y:730:ARG:HB3	1.68	0.45
1:Y:787:VAL:HG21	1:Y:809:ILE:HG12	1.97	0.45
1:Y:826:ASN:ND2	1:Y:827:SER:H	2.14	0.45
1:Y:895:PHE:HD2	1:Y:899:TYR:CE2	2.35	0.45
1:b:742:PRO:HG2	1:b:774:ALA:HA	1.98	0.45
1:b:899:TYR:HD1	2:c:1031:ARG:HG2	1.77	0.45
1:b:903:ASP:HB2	1:b:904:ASN:HA	1.99	0.45
2:c:967:ILE:HD13	2:c:967:ILE:HA	1.80	0.45
1:e:743:LYS:HZ1	1:h:808:ARG:HH22	1.65	0.45
2:f:954:GLU:HG3	2:f:987:ILE:CG1	2.46	0.45
2:l:966:MET:HE3	2:l:968:SER:HB3	1.99	0.45
1:n:756:ASP:HB3	1:n:758:THR:HB	1.98	0.45
1:n:810:ARG:HG3	1:n:811:ASN:N	2.31	0.45
1:A:743:LYS:HE2	1:D:808:ARG:HH21	1.78	0.45
2:B:984:ASN:O	2:B:985:ARG:HB3	2.15	0.45
1:D:778:VAL:CG1	1:D:780:LEU:CD2	2.95	0.45
2:E:930:MET:HA	2:E:1008:VAL:HA	1.99	0.45
1:G:778:VAL:CG1	1:G:780:LEU:CD2	2.95	0.45
1:G:828:LEU:O	1:J:753:THR:HG23	2.17	0.45
1:G:887:ILE:HG22	1:G:889:VAL:N	2.32	0.45
2:H:962:PRO:CB	2:H:999:ILE:HG22	2.47	0.45
1:J:778:VAL:CG1	1:J:780:LEU:CD2	2.95	0.45
1:J:802:VAL:HG22	1:J:803:PHE:O	2.17	0.45
1:J:887:ILE:HG22	1:J:889:VAL:N	2.32	0.45
2:K:930:MET:HA	2:K:1008:VAL:HA	1.99	0.45
2:K:941:PRO:HA	2:K:955:PHE:CE1	2.51	0.45
1:M:802:VAL:HG22	1:M:803:PHE:O	2.17	0.45
2:N:962:PRO:CB	2:N:999:ILE:HG22	2.47	0.45
2:N:966:MET:HE3	2:N:968:SER:HB3	1.99	0.45
2:N:975:LEU:HA	2:N:976:PRO:HD3	1.65	0.45
2:Q:984:ASN:C	2:Q:986:ASN:H	2.24	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:756:ASP:HB3	1:V:758:THR:HB	1.98	0.45
1:V:806:TRP:CD1	1:V:887:ILE:CG1	2.94	0.45
1:V:851:ILE:CA	1:V:854:PHE:CD2	2.95	0.45
1:V:887:ILE:HG22	1:V:889:VAL:N	2.32	0.45
1:Y:740:THR:HG23	1:Y:892:ASP:HB3	1.97	0.45
1:Y:903:ASP:HB2	1:Y:904:ASN:HA	1.99	0.45
1:b:826:ASN:ND2	1:b:827:SER:H	2.14	0.45
2:c:955:PHE:HD1	2:c:955:PHE:HA	1.56	0.45
1:e:887:ILE:HG22	1:e:889:VAL:N	2.32	0.45
1:e:899:TYR:HD1	2:f:1031:ARG:HG2	1.77	0.45
2:f:966:MET:HE3	2:f:968:SER:HB3	1.99	0.45
2:f:967:ILE:HD13	2:f:967:ILE:HA	1.80	0.45
2:f:982:GLY:HA3	2:f:985:ARG:H	1.81	0.45
3:g:1059:VAL:HG13	3:g:1060:ASP:O	2.16	0.45
1:h:745:LYS:HG3	1:h:746:MET:N	2.32	0.45
1:h:887:ILE:HG22	1:h:889:VAL:N	2.32	0.45
3:j:1057:ILE:HD13	3:j:1057:ILE:HA	1.70	0.45
1:k:745:LYS:HG3	1:k:746:MET:N	2.32	0.45
1:k:747:ILE:HD11	1:k:889:VAL:HG21	1.98	0.45
2:l:955:PHE:HD1	2:l:955:PHE:HA	1.56	0.45
2:l:1033:GLN:HG2	2:l:1034:ILE:N	2.31	0.45
1:n:851:ILE:CA	1:n:854:PHE:CD2	2.95	0.45
1:n:895:PHE:HD2	1:n:899:TYR:CE2	2.35	0.45
2:o:935:GLU:HB2	2:o:936:MET:HE2	1.99	0.45
1:A:727:LYS:HG2	1:A:727:LYS:O	2.05	0.45
1:A:802:VAL:HG22	1:A:803:PHE:O	2.17	0.45
1:D:736:ASN:HD22	1:D:737:PRO:HD2	1.81	0.45
1:D:802:VAL:HG22	1:D:803:PHE:O	2.17	0.45
1:D:828:LEU:O	1:G:753:THR:HG23	2.17	0.45
2:E:930:MET:HE3	3:F:1053:VAL:CG2	2.44	0.45
1:G:840:HIS:HD2	1:G:843:GLU:OE2	2.00	0.45
2:H:930:MET:HA	2:H:1008:VAL:HA	1.99	0.45
3:I:1057:ILE:HA	3:I:1058:PRO:HD3	1.60	0.45
1:J:742:PRO:HG2	1:J:774:ALA:HA	1.98	0.45
2:K:966:MET:HE3	2:K:968:SER:HB3	1.99	0.45
1:M:742:PRO:HG2	1:M:774:ALA:HA	1.98	0.45
1:M:840:HIS:HD2	1:M:843:GLU:OE2	2.00	0.45
3:O:1059:VAL:HG13	3:O:1060:ASP:O	2.17	0.45
1:P:787:VAL:HG21	1:P:809:ILE:HG12	1.97	0.45
1:P:802:VAL:HG22	1:P:803:PHE:O	2.17	0.45
1:P:828:LEU:O	1:S:753:THR:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:723:PRO:HA	1:S:724:ALA:HA	1.62	0.45
1:S:873:ILE:O	1:S:873:ILE:HG13	2.14	0.45
1:S:887:ILE:HG22	1:S:889:VAL:N	2.32	0.45
2:T:962:PRO:CB	2:T:999:ILE:HG22	2.47	0.45
1:V:764:SER:HB2	1:V:786:TRP:CZ3	2.47	0.45
2:W:965:TYR:HA	2:W:976:PRO:CG	2.46	0.45
2:Z:941:PRO:HA	2:Z:955:PHE:CE1	2.51	0.45
2:Z:962:PRO:CB	2:Z:999:ILE:HG22	2.47	0.45
1:b:745:LYS:HG3	1:b:746:MET:N	2.32	0.45
1:b:757:THR:HG23	1:b:877:LEU:HB3	1.97	0.45
1:b:810:ARG:HG3	1:b:811:ASN:N	2.31	0.45
1:b:817:ILE:H	1:b:817:ILE:HG12	1.53	0.45
2:c:966:MET:HE3	2:c:968:SER:HB3	1.99	0.45
1:e:745:LYS:HG3	1:e:746:MET:N	2.32	0.45
1:e:756:ASP:HB3	1:e:758:THR:HB	1.98	0.45
1:h:895:PHE:HD2	1:h:899:TYR:CE2	2.35	0.45
2:l:928:TYR:HH	2:l:946:ASP:HB3	1.81	0.45
1:n:758:THR:HG23	1:n:876:THR:HG21	1.99	0.45
2:o:965:TYR:HA	2:o:976:PRO:CG	2.46	0.45
3:p:1054:ASN:C	3:p:1055:LYS:HD3	2.42	0.45
1:A:742:PRO:HG2	1:A:774:ALA:HA	1.98	0.45
1:A:758:THR:HG23	1:A:876:THR:HG21	1.99	0.45
1:A:778:VAL:CG1	1:A:780:LEU:CD2	2.95	0.45
1:A:828:LEU:HD13	1:D:754:GLU:CD	2.28	0.45
1:A:840:HIS:HD2	1:A:843:GLU:OE2	2.00	0.45
1:A:869:SER:O	1:A:872:SER:HB3	2.17	0.45
2:B:936:MET:HE1	2:B:1004:LYS:HD2	1.99	0.45
1:D:758:THR:HG23	1:D:876:THR:HG21	1.99	0.45
2:E:936:MET:HE1	2:E:1004:LYS:HD2	1.99	0.45
2:E:966:MET:HE3	2:E:968:SER:HB3	1.99	0.45
2:H:936:MET:HE1	2:H:1004:LYS:HD2	1.99	0.45
2:H:966:MET:HE3	2:H:968:SER:HB3	1.99	0.45
1:J:828:LEU:O	1:M:753:THR:HG23	2.17	0.45
3:L:1057:ILE:HA	3:L:1057:ILE:HD13	1.70	0.45
3:L:1059:VAL:HG13	3:L:1060:ASP:O	2.16	0.45
1:M:724:ALA:C	1:M:725:ARG:HD2	2.38	0.45
1:M:734:MET:HE2	1:M:734:MET:HB2	1.60	0.45
2:N:930:MET:HA	2:N:1008:VAL:HA	1.99	0.45
1:P:721:LEU:HD13	1:V:821:ASP:C	2.41	0.45
1:P:842:TRP:CH2	1:P:846:ARG:HB3	2.50	0.45
2:Q:936:MET:HE1	2:Q:1004:LYS:CB	2.40	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:936:MET:HE1	2:Q:1004:LYS:HD2	1.99	0.45
2:Q:965:TYR:HA	2:Q:976:PRO:CG	2.46	0.45
2:Q:1026:SER:HA	2:Q:1027:PRO:HD3	1.70	0.45
1:S:745:LYS:HD3	1:S:771:VAL:CG1	2.37	0.45
1:S:745:LYS:HG3	1:S:746:MET:N	2.32	0.45
1:S:869:SER:O	1:S:872:SER:HB3	2.17	0.45
1:S:903:ASP:HB2	1:S:904:ASN:HA	1.99	0.45
2:T:936:MET:HE1	2:T:1004:LYS:HD2	1.99	0.45
2:T:966:MET:HE3	2:T:968:SER:HB3	1.99	0.45
1:V:724:ALA:C	1:V:725:ARG:HD2	2.38	0.45
1:V:778:VAL:CG1	1:V:780:LEU:CD2	2.95	0.45
1:V:873:ILE:O	1:V:873:ILE:HG13	2.14	0.45
2:W:936:MET:HE1	2:W:1004:LYS:HD2	1.99	0.45
3:X:1054:ASN:C	3:X:1055:LYS:HD3	2.42	0.45
1:Y:802:VAL:HG22	1:Y:803:PHE:O	2.17	0.45
2:Z:936:MET:HE1	2:Z:1004:LYS:HD2	1.99	0.45
2:Z:967:ILE:HD13	2:Z:967:ILE:HA	1.80	0.45
1:b:726:LEU:HB3	1:e:891:ARG:HH11	1.71	0.45
3:g:1041:PRO:HA	3:g:1042:PRO:HD3	1.56	0.45
1:h:747:ILE:HD11	1:h:889:VAL:HG21	1.98	0.45
1:h:828:LEU:O	1:k:753:THR:HG23	2.17	0.45
2:i:982:GLY:HA3	2:i:985:ARG:H	1.81	0.45
3:j:1055:LYS:N	3:j:1055:LYS:HD3	2.32	0.45
1:k:756:ASP:HB3	1:k:758:THR:HB	1.98	0.45
1:k:758:THR:HG23	1:k:876:THR:HG21	1.99	0.45
1:k:826:ASN:ND2	1:k:827:SER:H	2.14	0.45
1:k:869:SER:O	1:k:872:SER:HB3	2.17	0.45
2:l:935:GLU:HB3	2:l:1004:LYS:HZ3	1.81	0.45
2:o:916:LYS:HA	2:o:1028:ASP:OD2	2.16	0.45
2:B:966:MET:HE3	2:B:968:SER:HB3	1.99	0.44
1:D:840:HIS:HD2	1:D:843:GLU:OE2	2.00	0.44
2:E:916:LYS:HD2	2:E:1029:VAL:HB	2.00	0.44
2:E:935:GLU:HB2	2:E:936:MET:HE2	1.99	0.44
1:G:745:LYS:HG3	1:G:746:MET:N	2.32	0.44
1:G:746:MET:HB3	1:G:886:SER:HG	1.79	0.44
3:I:1055:LYS:N	3:I:1055:LYS:HD3	2.32	0.44
1:J:757:THR:HG23	1:J:877:LEU:HB3	1.97	0.44
1:J:840:HIS:HD2	1:J:843:GLU:OE2	2.00	0.44
2:K:936:MET:HE1	2:K:1004:LYS:HD2	1.99	0.44
2:K:1006:VAL:HG12	2:K:1007:GLY:H	1.83	0.44
1:M:757:THR:HG23	1:M:877:LEU:HB3	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:936:MET:HE1	2:N:1004:LYS:HD2	1.99	0.44
2:N:967:ILE:HD13	2:N:967:ILE:HA	1.80	0.44
1:P:869:SER:O	1:P:872:SER:HB3	2.17	0.44
2:Q:966:MET:HE3	2:Q:968:SER:HB3	1.99	0.44
1:S:725:ARG:HH11	1:S:725:ARG:HG3	1.81	0.44
1:S:743:LYS:CE	1:V:808:ARG:HH22	2.28	0.44
1:S:840:HIS:HD2	1:S:843:GLU:OE2	2.00	0.44
1:V:725:ARG:HH11	1:V:725:ARG:HG3	1.81	0.44
1:V:725:ARG:N	1:b:807:GLU:OE1	2.47	0.44
1:V:828:LEU:O	1:Y:753:THR:HG23	2.17	0.44
1:V:869:SER:O	1:V:872:SER:HB3	2.17	0.44
1:V:903:ASP:HB2	1:V:904:ASN:HA	1.99	0.44
3:X:1059:VAL:HG13	3:X:1060:ASP:N	2.32	0.44
1:Y:756:ASP:HB3	1:Y:758:THR:HB	1.98	0.44
2:Z:955:PHE:HD1	2:Z:955:PHE:HA	1.56	0.44
1:b:747:ILE:HD11	1:b:889:VAL:HG21	1.98	0.44
1:b:839:ALA:HB1	1:b:841:MET:HG3	2.00	0.44
1:e:778:VAL:CG1	1:e:780:LEU:CD2	2.95	0.44
2:f:936:MET:HE1	2:f:1004:LYS:HD2	1.99	0.44
1:h:756:ASP:HB3	1:h:758:THR:HB	1.98	0.44
1:h:758:THR:HG23	1:h:876:THR:HG21	1.99	0.44
1:h:891:ARG:HB2	1:h:892:ASP:H	1.58	0.44
2:i:966:MET:HE3	2:i:968:SER:HB3	1.99	0.44
3:j:1059:VAL:HG13	3:j:1060:ASP:O	2.17	0.44
1:k:723:PRO:HA	1:k:724:ALA:HA	1.62	0.44
2:l:936:MET:HE1	2:l:1004:LYS:HD2	1.99	0.44
1:n:887:ILE:HG22	1:n:889:VAL:N	2.32	0.44
2:o:936:MET:HE1	2:o:1004:LYS:HD2	1.99	0.44
1:A:828:LEU:O	1:D:753:THR:HG23	2.17	0.44
1:A:895:PHE:HD2	1:A:899:TYR:CE2	2.35	0.44
2:B:930:MET:HA	2:B:1008:VAL:HA	1.99	0.44
2:B:984:ASN:C	2:B:986:ASN:H	2.24	0.44
1:D:887:ILE:HG22	1:D:889:VAL:N	2.32	0.44
2:E:982:GLY:HA3	2:E:985:ARG:H	1.81	0.44
3:F:1054:ASN:C	3:F:1055:LYS:HD3	2.42	0.44
1:G:730:ARG:HE	1:G:730:ARG:HB3	1.68	0.44
1:G:758:THR:HG23	1:G:876:THR:HG21	1.99	0.44
1:G:802:VAL:HG22	1:G:803:PHE:O	2.17	0.44
2:K:984:ASN:C	2:K:986:ASN:H	2.24	0.44
1:M:887:ILE:HG22	1:M:889:VAL:N	2.32	0.44
2:N:941:PRO:HA	2:N:955:PHE:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:965:TYR:HA	2:N:976:PRO:CG	2.46	0.44
1:P:743:LYS:HE2	1:S:808:ARG:HH21	1.78	0.44
2:Q:1033:GLN:HG2	2:Q:1034:ILE:N	2.31	0.44
1:S:749:CYS:CB	1:S:765:CYS:HG	2.30	0.44
1:S:810:ARG:HG3	1:S:811:ASN:N	2.31	0.44
1:S:828:LEU:O	1:V:753:THR:HG23	2.16	0.44
2:T:935:GLU:HB2	2:T:936:MET:HE2	1.99	0.44
2:W:966:MET:HE3	2:W:968:SER:HB3	1.99	0.44
1:Y:742:PRO:HG2	1:Y:774:ALA:HA	1.98	0.44
1:Y:851:ILE:CA	1:Y:854:PHE:CD2	2.95	0.44
1:Y:869:SER:O	1:Y:872:SER:HB3	2.17	0.44
1:b:756:ASP:HB3	1:b:758:THR:HB	1.98	0.44
2:c:936:MET:HE1	2:c:1004:LYS:HD2	1.99	0.44
1:e:747:ILE:HD11	1:e:889:VAL:HG21	1.98	0.44
1:e:758:THR:HG23	1:e:876:THR:HG21	1.99	0.44
2:f:975:LEU:HA	2:f:976:PRO:HD3	1.65	0.44
1:h:725:ARG:HH11	1:h:725:ARG:HG3	1.81	0.44
1:h:729:SER:HB3	1:k:891:ARG:HD2	1.99	0.44
1:h:778:VAL:CG1	1:h:780:LEU:CD2	2.95	0.44
1:h:850:MET:CG	1:h:854:PHE:CZ	3.01	0.44
2:i:936:MET:HE1	2:i:1004:LYS:HD2	1.99	0.44
1:k:840:HIS:HD2	1:k:843:GLU:OE2	2.00	0.44
1:k:887:ILE:HG22	1:k:889:VAL:N	2.32	0.44
2:l:935:GLU:HB2	2:l:936:MET:HE2	1.99	0.44
2:l:1009:ARG:HE	2:l:1009:ARG:HB2	1.40	0.44
3:m:1054:ASN:C	3:m:1055:LYS:HD3	2.42	0.44
3:m:1059:VAL:HG13	3:m:1060:ASP:O	2.16	0.44
1:n:745:LYS:HG3	1:n:746:MET:N	2.32	0.44
2:o:916:LYS:HD2	2:o:1029:VAL:HB	2.00	0.44
2:B:935:GLU:HB2	2:B:936:MET:HE2	1.99	0.44
1:D:729:SER:HB3	1:G:891:ARG:HD2	1.99	0.44
2:E:954:GLU:HG3	2:E:987:ILE:CG1	2.46	0.44
2:H:982:GLY:HA3	2:H:985:ARG:H	1.81	0.44
2:H:1006:VAL:HG12	2:H:1007:GLY:H	1.83	0.44
2:K:982:GLY:HA3	2:K:985:ARG:H	1.81	0.44
1:M:778:VAL:CG1	1:M:780:LEU:CD2	2.95	0.44
1:M:869:SER:O	1:M:872:SER:HB3	2.17	0.44
2:N:1006:VAL:HG12	2:N:1007:GLY:H	1.83	0.44
1:P:745:LYS:HG3	1:P:746:MET:N	2.32	0.44
2:Q:919:ALA:HB3	2:Q:1026:SER:OG	2.18	0.44
2:Q:930:MET:HA	2:Q:1008:VAL:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:T:919:ALA:HB3	2:T:1026:SER:OG	2.18	0.44
1:V:745:LYS:HG3	1:V:746:MET:N	2.32	0.44
1:V:757:THR:HG23	1:V:877:LEU:HB3	1.97	0.44
2:W:941:PRO:HA	2:W:955:PHE:CE1	2.51	0.44
2:W:967:ILE:HD13	2:W:967:ILE:HA	1.80	0.44
1:Y:725:ARG:HH11	1:Y:725:ARG:HG3	1.81	0.44
1:Y:842:TRP:HA	1:Y:842:TRP:HE3	1.82	0.44
2:Z:935:GLU:HB2	2:Z:936:MET:HE2	1.99	0.44
1:b:743:LYS:HE2	1:e:808:ARG:HH21	1.78	0.44
1:b:802:VAL:HG22	1:b:803:PHE:O	2.17	0.44
1:b:842:TRP:HA	1:b:842:TRP:HE3	1.82	0.44
2:c:962:PRO:CB	2:c:999:ILE:HG22	2.47	0.44
3:d:1059:VAL:HG13	3:d:1060:ASP:N	2.32	0.44
2:i:916:LYS:HD2	2:i:1029:VAL:HB	2.00	0.44
2:i:935:GLU:HB2	2:i:936:MET:HE2	1.99	0.44
2:i:962:PRO:CB	2:i:999:ILE:HG22	2.47	0.44
2:l:1006:VAL:HG12	2:l:1007:GLY:H	1.83	0.44
1:n:802:VAL:HG22	1:n:803:PHE:O	2.16	0.44
1:n:869:SER:O	1:n:872:SER:HB3	2.17	0.44
2:o:1033:GLN:HG2	2:o:1034:ILE:N	2.31	0.44
3:p:1059:VAL:HG13	3:p:1060:ASP:O	2.16	0.44
1:A:753:THR:HG23	1:n:828:LEU:O	2.16	0.44
1:D:745:LYS:HG3	1:D:746:MET:N	2.32	0.44
2:E:1006:VAL:HG12	2:E:1007:GLY:H	1.83	0.44
2:E:1024:THR:CG2	2:E:1025:ALA:N	2.81	0.44
2:H:936:MET:HE1	2:H:1004:LYS:CB	2.40	0.44
1:J:745:LYS:HG3	1:J:746:MET:N	2.32	0.44
2:K:916:LYS:HD2	2:K:1029:VAL:HB	2.00	0.44
1:P:725:ARG:HH11	1:P:725:ARG:HG3	1.81	0.44
3:R:1054:ASN:C	3:R:1055:LYS:HD3	2.42	0.44
1:S:729:SER:HB3	1:V:891:ARG:HD2	1.99	0.44
1:S:787:VAL:HG21	1:S:809:ILE:HG12	1.97	0.44
1:S:851:ILE:CA	1:S:854:PHE:CD2	2.95	0.44
1:V:810:ARG:HG3	1:V:811:ASN:N	2.31	0.44
2:W:919:ALA:HB3	2:W:1026:SER:OG	2.18	0.44
1:Y:733:VAL:HA	1:b:816:THR:N	2.32	0.44
1:Y:810:ARG:HG3	1:Y:811:ASN:N	2.31	0.44
1:Y:828:LEU:O	1:b:753:THR:HG23	2.17	0.44
1:Y:839:ALA:HB1	1:Y:841:MET:HG3	2.00	0.44
1:Y:840:HIS:HD2	1:Y:843:GLU:OE2	2.00	0.44
2:Z:965:TYR:HA	2:Z:976:PRO:CG	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:966:MET:HE3	2:Z:968:SER:HB3	1.99	0.44
1:b:733:VAL:HA	1:e:816:THR:N	2.32	0.44
1:b:778:VAL:CG1	1:b:780:LEU:CD2	2.95	0.44
2:c:919:ALA:HB3	2:c:1026:SER:OG	2.18	0.44
2:c:930:MET:HA	2:c:1008:VAL:HA	1.99	0.44
3:d:1055:LYS:N	3:d:1055:LYS:HD3	2.32	0.44
1:e:736:ASN:HD22	1:e:737:PRO:HD2	1.81	0.44
1:e:840:HIS:HD2	1:e:843:GLU:OE2	2.00	0.44
2:f:962:PRO:CB	2:f:999:ILE:HG22	2.47	0.44
2:f:984:ASN:C	2:f:986:ASN:H	2.24	0.44
2:i:1006:VAL:HG12	2:i:1007:GLY:H	1.83	0.44
1:k:778:VAL:CG1	1:k:780:LEU:CD2	2.95	0.44
2:l:982:GLY:HA3	2:l:985:ARG:H	1.81	0.44
1:n:840:HIS:HD2	1:n:843:GLU:OE2	2.00	0.44
2:o:966:MET:HE3	2:o:968:SER:HB3	1.99	0.44
2:o:1026:SER:HA	2:o:1027:PRO:HD3	1.70	0.44
1:A:745:LYS:HG3	1:A:746:MET:N	2.32	0.44
1:A:802:VAL:CG2	1:A:803:PHE:H	2.26	0.44
3:I:1054:ASN:C	3:I:1055:LYS:HD3	2.42	0.44
1:J:726:LEU:CB	1:M:891:ARG:NH1	2.50	0.44
1:J:758:THR:HG23	1:J:876:THR:HG21	1.99	0.44
1:J:851:ILE:HA	1:J:854:PHE:HD2	1.77	0.44
2:K:965:TYR:HD1	2:K:976:PRO:CD	2.31	0.44
1:M:725:ARG:HH11	1:M:725:ARG:HG3	1.81	0.44
1:P:757:THR:HG23	1:P:877:LEU:HB3	1.97	0.44
2:Q:935:GLU:HB2	2:Q:936:MET:HE2	1.99	0.44
1:S:778:VAL:CG1	1:S:780:LEU:CD2	2.95	0.44
1:V:839:ALA:HB1	1:V:841:MET:HG3	2.00	0.44
2:Z:919:ALA:HB3	2:Z:1026:SER:OG	2.18	0.44
1:b:895:PHE:HD2	1:b:899:TYR:CE2	2.35	0.44
2:c:916:LYS:HD2	2:c:1029:VAL:HB	2.00	0.44
1:e:721:LEU:CD2	1:k:822:SER:O	2.61	0.44
1:e:810:ARG:HG3	1:e:811:ASN:N	2.31	0.44
1:e:895:PHE:HD2	1:e:899:TYR:CE2	2.35	0.44
2:i:919:ALA:HB3	2:i:1026:SER:OG	2.18	0.44
1:k:828:LEU:O	1:n:753:THR:HG23	2.17	0.44
1:n:778:VAL:CG1	1:n:780:LEU:CD2	2.95	0.44
2:o:965:TYR:HD1	2:o:976:PRO:CD	2.31	0.44
2:B:962:PRO:CB	2:B:999:ILE:HG22	2.47	0.44
2:B:1006:VAL:HG12	2:B:1007:GLY:H	1.83	0.44
1:D:901:LEU:CB	1:D:902:ALA:CA	2.93	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:919:ALA:HB3	2:N:1026:SER:OG	2.18	0.44
2:Q:941:PRO:HA	2:Q:955:PHE:CE1	2.51	0.44
2:T:941:PRO:HA	2:T:955:PHE:CE1	2.51	0.44
2:T:965:TYR:HD1	2:T:976:PRO:CD	2.31	0.44
2:T:1006:VAL:HG12	2:T:1007:GLY:H	1.83	0.44
3:U:1059:VAL:HG13	3:U:1060:ASP:N	2.32	0.44
1:V:729:SER:HB3	1:Y:891:ARG:HD2	1.99	0.44
1:V:733:VAL:HA	1:Y:816:THR:N	2.32	0.44
2:W:1006:VAL:HG12	2:W:1007:GLY:H	1.83	0.44
1:Y:743:LYS:CE	1:b:808:ARG:HH22	2.28	0.44
1:Y:887:ILE:HG22	1:Y:889:VAL:N	2.32	0.44
2:Z:916:LYS:HD2	2:Z:1029:VAL:HB	2.00	0.44
1:b:725:ARG:HH11	1:b:725:ARG:HG3	1.81	0.44
1:b:758:THR:HG23	1:b:876:THR:HG21	1.99	0.44
2:c:984:ASN:C	2:c:986:ASN:H	2.24	0.44
2:c:1024:THR:CG2	2:c:1025:ALA:N	2.81	0.44
1:e:733:VAL:HA	1:h:816:THR:N	2.32	0.44
1:h:802:VAL:CG2	1:h:803:PHE:H	2.26	0.44
1:k:850:MET:CG	1:k:854:PHE:CZ	3.01	0.44
2:o:962:PRO:CB	2:o:999:ILE:HG22	2.47	0.44
1:A:818:VAL:HG22	1:n:729:SER:HG	1.71	0.44
2:E:965:TYR:HD1	2:E:976:PRO:CD	2.31	0.44
2:H:935:GLU:HB2	2:H:936:MET:HE2	1.99	0.44
2:H:939:ILE:HD13	2:K:969:ALA:CB	2.48	0.44
1:J:802:VAL:CG2	1:J:803:PHE:H	2.26	0.44
1:J:869:SER:O	1:J:872:SER:HB3	2.17	0.44
2:K:1033:GLN:HG2	2:K:1034:ILE:N	2.31	0.44
1:M:828:LEU:O	1:P:753:THR:HG23	2.17	0.44
3:O:1054:ASN:C	3:O:1055:LYS:HD3	2.42	0.44
3:O:1061:THR:HB	3:O:1062:GLN:H	1.56	0.44
1:P:887:ILE:HG22	1:P:889:VAL:N	2.32	0.44
2:Q:962:PRO:CB	2:Q:999:ILE:HG22	2.47	0.44
1:S:757:THR:HG23	1:S:757:THR:H	1.46	0.44
1:V:743:LYS:HE2	1:Y:808:ARG:HH21	1.78	0.44
1:V:747:ILE:HD12	1:V:809:ILE:HD13	2.00	0.44
1:V:842:TRP:HA	1:V:842:TRP:HE3	1.82	0.44
1:V:901:LEU:CD1	2:W:909:LYS:HG2	2.48	0.44
2:W:962:PRO:CB	2:W:999:ILE:HG22	2.47	0.44
1:Y:743:LYS:HE2	1:b:808:ARG:HH21	1.78	0.44
1:Y:747:ILE:HD12	1:Y:809:ILE:HD13	1.99	0.44
1:b:729:SER:HG	1:e:818:VAL:CG2	2.24	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:747:ILE:HD12	1:b:809:ILE:HD13	2.00	0.44
1:b:851:ILE:CA	1:b:854:PHE:CD2	2.95	0.44
1:b:869:SER:O	1:b:872:SER:HB3	2.17	0.44
2:c:965:TYR:HD1	2:c:976:PRO:CD	2.31	0.44
1:e:842:TRP:HA	1:e:842:TRP:HE3	1.82	0.44
1:e:851:ILE:HA	1:e:854:PHE:HD2	1.77	0.44
2:i:965:TYR:HD1	2:i:976:PRO:CD	2.31	0.44
1:k:802:VAL:CG2	1:k:803:PHE:H	2.26	0.44
1:k:901:LEU:CD1	2:l:909:LYS:HG2	2.48	0.44
2:l:919:ALA:HB3	2:l:1026:SER:OG	2.18	0.44
2:o:930:MET:HA	2:o:1008:VAL:HA	1.99	0.44
2:o:982:GLY:HA3	2:o:985:ARG:H	1.81	0.44
2:o:1006:VAL:HG12	2:o:1007:GLY:H	1.83	0.44
2:B:982:GLY:HA3	2:B:985:ARG:H	1.81	0.44
2:E:939:ILE:HD13	2:H:969:ALA:CB	2.48	0.44
1:J:839:ALA:HB1	1:J:841:MET:HG3	2.00	0.44
1:J:901:LEU:CD1	2:K:909:LYS:HG2	2.48	0.44
2:K:939:ILE:HD13	2:N:969:ALA:CB	2.48	0.44
2:K:965:TYR:CD1	2:K:975:LEU:HA	2.52	0.44
1:P:778:VAL:CG1	1:P:780:LEU:CD2	2.95	0.44
2:Q:1006:VAL:HG12	2:Q:1007:GLY:H	1.83	0.44
3:R:1059:VAL:HG13	3:R:1060:ASP:N	2.32	0.44
1:S:747:ILE:HD12	1:S:809:ILE:HD13	2.00	0.44
2:T:916:LYS:HD2	2:T:1029:VAL:HB	2.00	0.44
2:T:930:MET:HA	2:T:1008:VAL:HA	1.99	0.44
3:U:1061:THR:HB	3:U:1062:GLN:H	1.56	0.44
2:W:984:ASN:C	2:W:986:ASN:H	2.24	0.44
1:Y:901:LEU:CB	1:Y:902:ALA:CA	2.93	0.44
2:Z:965:TYR:HD1	2:Z:976:PRO:CD	2.31	0.44
1:b:887:ILE:HG22	1:b:889:VAL:N	2.32	0.44
1:e:891:ARG:HB2	1:e:892:ASP:H	1.58	0.44
2:f:919:ALA:HB3	2:f:1026:SER:OG	2.18	0.44
2:f:965:TYR:HD1	2:f:976:PRO:CD	2.31	0.44
1:h:840:HIS:HD2	1:h:843:GLU:OE2	2.00	0.44
1:h:874:PRO:HA	1:h:875:PRO:HD3	1.75	0.44
2:i:930:MET:HA	2:i:1008:VAL:HA	1.99	0.44
3:j:1041:PRO:HA	3:j:1042:PRO:HD3	1.56	0.44
3:j:1054:ASN:C	3:j:1055:LYS:HD3	2.42	0.44
1:n:839:ALA:HB1	1:n:841:MET:HG3	2.00	0.44
1:A:828:LEU:HB3	1:D:754:GLU:CD	2.43	0.44
1:D:777:LEU:HB3	2:E:916:LYS:NZ	2.31	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:962:PRO:CB	2:E:999:ILE:HG22	2.47	0.44
1:G:787:VAL:HG21	1:G:809:ILE:HG12	1.97	0.44
1:G:901:LEU:CD1	2:H:909:LYS:HG2	2.48	0.44
2:H:982:GLY:HA2	3:I:1062:GLN:HB2	2.00	0.44
2:K:935:GLU:HB2	2:K:936:MET:HE2	1.99	0.44
2:K:962:PRO:CB	2:K:999:ILE:HG22	2.47	0.44
1:P:778:VAL:HG22	2:Q:916:LYS:HZ1	1.83	0.44
1:P:840:HIS:HD2	1:P:843:GLU:OE2	2.00	0.44
1:P:901:LEU:CD1	2:Q:909:LYS:HG2	2.48	0.44
3:R:1057:ILE:HA	3:R:1058:PRO:HD3	1.60	0.44
2:T:936:MET:HE1	2:T:1004:LYS:CB	2.40	0.44
1:Y:745:LYS:HG3	1:Y:746:MET:N	2.32	0.44
2:Z:1006:VAL:HG12	2:Z:1007:GLY:H	1.83	0.44
3:a:1054:ASN:C	3:a:1055:LYS:HD3	2.42	0.44
1:e:725:ARG:HH11	1:e:725:ARG:HG3	1.81	0.44
3:g:1054:ASN:C	3:g:1055:LYS:HD3	2.42	0.44
2:i:928:TYR:C	3:j:1053:VAL:HG23	2.43	0.44
1:k:787:VAL:CG1	1:k:788:ASP:N	2.81	0.44
1:k:828:LEU:HB3	1:n:754:GLU:CD	2.43	0.44
2:l:965:TYR:HD1	2:l:976:PRO:CD	2.31	0.44
1:n:833:ILE:HA	1:n:834:PRO:HD3	1.47	0.44
2:B:919:ALA:HB3	2:B:1026:SER:OG	2.18	0.43
2:B:939:ILE:HD13	2:E:969:ALA:CB	2.48	0.43
2:B:965:TYR:HD1	2:B:976:PRO:CD	2.31	0.43
3:C:1054:ASN:C	3:C:1055:LYS:HD3	2.42	0.43
1:D:787:VAL:CG1	1:D:788:ASP:N	2.81	0.43
1:D:901:LEU:CD1	2:E:909:LYS:HG2	2.48	0.43
1:G:828:LEU:HB3	1:J:754:GLU:CD	2.43	0.43
2:H:965:TYR:HD1	2:H:976:PRO:CD	2.31	0.43
1:J:850:MET:CG	1:J:854:PHE:CZ	3.01	0.43
2:K:919:ALA:HB3	2:K:1026:SER:OG	2.18	0.43
1:M:745:LYS:HG3	1:M:746:MET:N	2.32	0.43
1:M:758:THR:HG23	1:M:876:THR:HG21	1.99	0.43
2:Q:965:TYR:HD1	2:Q:976:PRO:CD	2.31	0.43
3:R:1040:LYS:HG2	3:R:1041:PRO:N	2.31	0.43
2:T:967:ILE:HD13	2:T:967:ILE:HA	1.80	0.43
2:T:984:ASN:C	2:T:986:ASN:H	2.24	0.43
3:U:1054:ASN:C	3:U:1055:LYS:HD3	2.42	0.43
1:Y:721:LEU:CD2	1:e:822:SER:O	2.61	0.43
1:Y:723:PRO:HA	1:Y:724:ALA:HA	1.62	0.43
1:Y:758:THR:HG23	1:Y:876:THR:HG21	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:930:MET:HA	2:Z:1008:VAL:HA	1.99	0.43
3:a:1059:VAL:HG13	3:a:1060:ASP:N	2.32	0.43
1:b:901:LEU:CD1	2:c:909:LYS:HG2	2.48	0.43
1:e:828:LEU:HB3	1:h:754:GLU:CD	2.43	0.43
2:f:916:LYS:HD2	2:f:1029:VAL:HB	2.00	0.43
2:f:928:TYR:C	3:g:1053:VAL:HG23	2.43	0.43
1:h:877:LEU:O	1:h:878:TYR:HB2	2.18	0.43
2:i:984:ASN:C	2:i:986:ASN:H	2.24	0.43
1:k:877:LEU:O	1:k:878:TYR:HB2	2.18	0.43
1:k:891:ARG:HB2	1:k:892:ASP:H	1.58	0.43
2:l:928:TYR:C	3:m:1053:VAL:HG23	2.43	0.43
1:A:733:VAL:HA	1:D:816:THR:N	2.32	0.43
1:A:735:ALA:CB	1:A:739:LEU:HD12	2.24	0.43
1:A:816:THR:N	1:n:733:VAL:HA	2.32	0.43
1:A:901:LEU:CD1	2:B:909:LYS:HG2	2.48	0.43
2:B:969:ALA:CB	2:o:939:ILE:HD13	2.48	0.43
1:D:842:TRP:HA	1:D:842:TRP:HE3	1.82	0.43
2:E:982:GLY:HA2	3:F:1062:GLN:HB2	2.01	0.43
1:G:842:TRP:HA	1:G:842:TRP:HE3	1.82	0.43
1:G:901:LEU:CB	1:G:902:ALA:CA	2.93	0.43
2:H:965:TYR:CD1	2:H:975:LEU:HA	2.52	0.43
2:K:982:GLY:HA2	3:L:1062:GLN:HB2	2.00	0.43
3:L:1040:LYS:HG2	3:L:1041:PRO:N	2.31	0.43
1:M:757:THR:HG23	1:M:757:THR:H	1.46	0.43
1:M:787:VAL:CG1	1:M:788:ASP:N	2.81	0.43
1:M:901:LEU:CD1	2:N:909:LYS:HG2	2.48	0.43
2:N:939:ILE:HD13	2:Q:969:ALA:CB	2.48	0.43
1:P:734:MET:H	1:P:734:MET:HG3	1.42	0.43
1:S:842:TRP:CH2	1:S:846:ARG:HB3	2.50	0.43
1:V:743:LYS:HZ1	1:Y:808:ARG:HH22	1.66	0.43
1:Y:877:LEU:O	1:Y:878:TYR:HB2	2.18	0.43
2:Z:965:TYR:CD1	2:Z:975:LEU:HA	2.52	0.43
2:Z:984:ASN:C	2:Z:986:ASN:H	2.24	0.43
2:Z:1009:ARG:HE	2:Z:1009:ARG:HB2	1.40	0.43
3:a:1057:ILE:HA	3:a:1058:PRO:HD3	1.60	0.43
2:c:928:TYR:C	3:d:1053:VAL:HG23	2.43	0.43
2:c:965:TYR:CD1	2:c:975:LEU:HA	2.52	0.43
2:c:982:GLY:HA2	3:d:1062:GLN:HB2	2.00	0.43
3:d:1054:ASN:C	3:d:1055:LYS:HD3	2.42	0.43
1:e:901:LEU:CD1	2:f:909:LYS:HG2	2.48	0.43
1:h:733:VAL:HA	1:k:816:THR:N	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:i:995:LYS:CG	2:i:996:GLU:N	2.82	0.43
2:l:930:MET:HA	2:l:1008:VAL:HA	1.99	0.43
1:n:901:LEU:CD1	2:o:909:LYS:HG2	2.48	0.43
2:o:955:PHE:HD1	2:o:955:PHE:HA	1.56	0.43
2:B:982:GLY:HA2	3:C:1062:GLN:HB2	2.00	0.43
1:D:828:LEU:HB3	1:G:754:GLU:CD	2.43	0.43
1:D:842:TRP:CH2	1:D:846:ARG:HB3	2.50	0.43
2:H:919:ALA:HB3	2:H:1026:SER:OG	2.18	0.43
1:J:787:VAL:CG1	1:J:788:ASP:N	2.81	0.43
2:N:916:LYS:HD2	2:N:1029:VAL:HB	2.00	0.43
2:N:935:GLU:HB3	2:N:1004:LYS:HZ2	1.83	0.43
2:Q:939:ILE:HD13	2:T:969:ALA:CB	2.48	0.43
1:S:733:VAL:HA	1:V:816:THR:N	2.32	0.43
1:S:742:PRO:CG	1:V:810:ARG:CD	2.97	0.43
3:U:1055:LYS:HD3	3:U:1055:LYS:N	2.32	0.43
1:V:743:LYS:CE	1:Y:808:ARG:HH22	2.28	0.43
1:V:874:PRO:HA	1:V:875:PRO:HD3	1.76	0.43
1:b:840:HIS:HD2	1:b:843:GLU:OE2	2.00	0.43
3:d:1041:PRO:HA	3:d:1042:PRO:HD3	1.56	0.43
1:e:757:THR:HG23	1:e:757:THR:H	1.46	0.43
1:e:851:ILE:CA	1:e:854:PHE:CD2	2.95	0.43
2:f:935:GLU:HB2	2:f:936:MET:HE2	1.99	0.43
2:f:982:GLY:HA2	3:g:1062:GLN:HB2	2.00	0.43
2:l:916:LYS:HD2	2:l:1029:VAL:HB	2.00	0.43
2:l:939:ILE:HD13	2:o:969:ALA:CB	2.48	0.43
1:n:817:ILE:H	1:n:817:ILE:HG12	1.53	0.43
2:o:919:ALA:HB3	2:o:1026:SER:OG	2.18	0.43
2:o:928:TYR:C	3:p:1053:VAL:HG23	2.43	0.43
2:o:995:LYS:CG	2:o:996:GLU:N	2.82	0.43
2:B:916:LYS:HD2	2:B:1029:VAL:HB	2.00	0.43
3:C:1055:LYS:HD3	3:C:1055:LYS:N	2.32	0.43
1:D:723:PRO:HA	1:D:724:ALA:HA	1.62	0.43
1:D:733:VAL:HA	1:G:816:THR:N	2.32	0.43
1:D:828:LEU:HD13	1:G:754:GLU:CD	2.28	0.43
2:E:936:MET:HE1	2:E:1004:LYS:CB	2.40	0.43
1:G:729:SER:HB3	1:J:891:ARG:HD2	1.99	0.43
2:H:995:LYS:CG	2:H:996:GLU:N	2.82	0.43
1:J:828:LEU:HB3	1:M:754:GLU:CD	2.43	0.43
3:L:1054:ASN:C	3:L:1055:LYS:HD3	2.42	0.43
1:M:742:PRO:CG	1:P:810:ARG:CD	2.97	0.43
1:M:742:PRO:HB2	1:P:810:ARG:NE	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:982:GLY:HA2	3:O:1062:GLN:HB2	2.01	0.43
1:P:742:PRO:CG	1:S:810:ARG:CD	2.97	0.43
2:Q:916:LYS:HD2	2:Q:1029:VAL:HB	2.00	0.43
3:R:1041:PRO:HA	3:R:1042:PRO:HD3	1.56	0.43
1:S:725:ARG:HH12	1:Y:819:ASN:CG	2.25	0.43
1:S:839:ALA:HB1	1:S:841:MET:HG3	2.00	0.43
2:T:939:ILE:HD13	2:W:969:ALA:CB	2.48	0.43
2:T:982:GLY:HA2	3:U:1062:GLN:HB2	2.00	0.43
3:U:1057:ILE:HA	3:U:1057:ILE:HD13	1.70	0.43
1:V:742:PRO:CG	1:Y:810:ARG:CD	2.97	0.43
1:V:877:LEU:O	1:V:878:TYR:HB2	2.18	0.43
2:W:930:MET:HA	2:W:1008:VAL:HA	1.99	0.43
2:W:965:TYR:CD1	2:W:975:LEU:HA	2.52	0.43
2:W:982:GLY:HA2	3:X:1062:GLN:HB2	2.00	0.43
1:Y:729:SER:HG	1:b:818:VAL:CG2	2.23	0.43
1:Y:742:PRO:CG	1:b:810:ARG:CD	2.97	0.43
2:Z:982:GLY:HA2	3:a:1062:GLN:HB2	2.01	0.43
1:b:742:PRO:CG	1:e:810:ARG:CD	2.97	0.43
2:c:939:ILE:HD13	2:f:969:ALA:CB	2.48	0.43
1:e:747:ILE:HD12	1:e:809:ILE:HD13	2.00	0.43
1:e:777:LEU:HB3	2:f:916:LYS:NZ	2.31	0.43
1:e:787:VAL:CG1	1:e:788:ASP:N	2.81	0.43
2:f:939:ILE:HD13	2:i:969:ALA:CB	2.48	0.43
2:f:965:TYR:CD1	2:f:975:LEU:HA	2.52	0.43
2:f:1006:VAL:HG12	2:f:1007:GLY:H	1.83	0.43
2:f:1029:VAL:CG1	2:f:1030:ARG:N	2.82	0.43
3:g:1040:LYS:HG2	3:g:1041:PRO:N	2.31	0.43
1:h:806:TRP:CD1	1:h:887:ILE:CG1	2.94	0.43
2:l:995:LYS:CG	2:l:996:GLU:N	2.82	0.43
1:n:787:VAL:CG1	1:n:788:ASP:N	2.81	0.43
2:o:936:MET:CE	2:o:1004:LYS:HB3	2.43	0.43
2:o:982:GLY:HA2	3:p:1062:GLN:HB2	2.00	0.43
1:A:842:TRP:HA	1:A:842:TRP:HE3	1.82	0.43
1:D:742:PRO:HB2	1:G:810:ARG:NE	2.33	0.43
2:E:965:TYR:CD1	2:E:975:LEU:HA	2.52	0.43
2:E:995:LYS:CG	2:E:996:GLU:N	2.82	0.43
1:G:802:VAL:CG2	1:G:803:PHE:H	2.26	0.43
1:J:742:PRO:CG	1:M:810:ARG:CD	2.97	0.43
2:K:1029:VAL:CG1	2:K:1030:ARG:N	2.82	0.43
3:O:1057:ILE:HA	3:O:1057:ILE:HD13	1.70	0.43
1:P:747:ILE:HD12	1:P:809:ILE:HD13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:758:THR:HG23	1:P:876:THR:HG21	1.99	0.43
2:Q:982:GLY:HA2	3:R:1062:GLN:HB2	2.01	0.43
2:Q:1029:VAL:CG1	2:Q:1030:ARG:N	2.82	0.43
1:S:758:THR:HG23	1:S:876:THR:HG21	1.99	0.43
2:T:965:TYR:CD1	2:T:975:LEU:HA	2.52	0.43
1:V:758:THR:HG23	1:V:876:THR:HG21	1.99	0.43
1:V:787:VAL:HG21	1:V:809:ILE:HG12	1.97	0.43
2:W:930:MET:HE2	2:W:930:MET:HB3	1.65	0.43
2:W:939:ILE:HD13	2:Z:969:ALA:CB	2.48	0.43
2:W:955:PHE:HA	2:W:956:PRO:HD3	1.84	0.43
1:Y:778:VAL:CG1	1:Y:780:LEU:CD2	2.95	0.43
2:Z:939:ILE:HD13	2:c:969:ALA:CB	2.48	0.43
2:c:935:GLU:HB2	2:c:936:MET:HE2	1.99	0.43
1:h:747:ILE:HD12	1:h:809:ILE:HD13	2.00	0.43
2:i:939:ILE:HD13	2:l:969:ALA:CB	2.48	0.43
2:i:982:GLY:HA2	3:j:1062:GLN:HB2	2.01	0.43
1:k:729:SER:HB3	1:n:891:ARG:HD2	1.99	0.43
1:k:733:VAL:HA	1:n:816:THR:N	2.32	0.43
1:A:779:ARG:HE	1:A:779:ARG:HB3	1.69	0.43
1:G:742:PRO:HB2	1:J:810:ARG:NE	2.33	0.43
1:J:721:LEU:O	1:P:789:GLY:CA	2.67	0.43
1:J:730:ARG:HE	1:J:730:ARG:HB3	1.68	0.43
1:J:842:TRP:HA	1:J:842:TRP:HE3	1.82	0.43
2:K:928:TYR:C	3:L:1053:VAL:HG23	2.43	0.43
2:K:995:LYS:CG	2:K:996:GLU:N	2.82	0.43
2:N:928:TYR:C	3:O:1053:VAL:HG23	2.43	0.43
1:S:787:VAL:CG1	1:S:788:ASP:N	2.81	0.43
1:S:901:LEU:CD1	2:T:909:LYS:HG2	2.48	0.43
2:W:935:GLU:HB2	2:W:936:MET:HE2	1.99	0.43
2:W:965:TYR:HD1	2:W:976:PRO:CD	2.31	0.43
1:Y:729:SER:HG	1:b:818:VAL:HG22	1.70	0.43
3:a:1061:THR:HB	3:a:1062:GLN:H	1.56	0.43
1:b:787:VAL:CG1	1:b:788:ASP:N	2.81	0.43
1:e:833:ILE:HA	1:e:834:PRO:HD3	1.47	0.43
1:h:734:MET:HE2	1:h:734:MET:HB2	1.60	0.43
2:l:982:GLY:HA2	3:m:1062:GLN:HB2	2.01	0.43
2:l:1026:SER:HA	2:l:1027:PRO:HD3	1.70	0.43
1:A:742:PRO:HB2	1:D:810:ARG:NE	2.33	0.43
1:A:787:VAL:CG1	1:A:788:ASP:N	2.81	0.43
1:A:810:ARG:NE	1:n:742:PRO:HB2	2.33	0.43
2:B:928:TYR:C	3:C:1053:VAL:HG23	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1029:VAL:CG1	2:E:1030:ARG:N	2.82	0.43
1:G:721:LEU:O	1:M:789:GLY:CA	2.67	0.43
1:G:787:VAL:CG1	1:G:788:ASP:N	2.81	0.43
1:G:839:ALA:HB1	1:G:841:MET:HG3	2.00	0.43
2:H:928:TYR:C	3:I:1053:VAL:HG23	2.43	0.43
2:H:1009:ARG:HE	2:H:1009:ARG:HB2	1.40	0.43
2:K:948:TYR:HB3	2:K:949:ARG:H	1.60	0.43
2:K:975:LEU:HA	2:K:976:PRO:HD3	1.65	0.43
1:M:828:LEU:HB3	1:P:754:GLU:CD	2.43	0.43
1:M:850:MET:CG	1:M:854:PHE:CZ	3.01	0.43
1:P:727:LYS:HG2	1:P:727:LYS:O	2.05	0.43
2:Q:965:TYR:CD1	2:Q:975:LEU:HA	2.52	0.43
1:V:840:HIS:HD2	1:V:843:GLU:OE2	2.00	0.43
1:Y:828:LEU:HB3	1:b:754:GLU:CD	2.43	0.43
1:Y:891:ARG:HB2	1:Y:892:ASP:H	1.58	0.43
1:Y:899:TYR:HD1	2:Z:1031:ARG:HG2	1.77	0.43
1:Y:901:LEU:CD1	2:Z:909:LYS:HG2	2.48	0.43
2:Z:928:TYR:C	3:a:1053:VAL:HG23	2.43	0.43
2:Z:955:PHE:HA	2:Z:956:PRO:HD3	1.84	0.43
2:f:995:LYS:CG	2:f:996:GLU:N	2.82	0.43
1:h:757:THR:HG23	1:h:757:THR:H	1.46	0.43
2:i:965:TYR:CD1	2:i:975:LEU:HA	2.52	0.43
2:l:962:PRO:CB	2:l:999:ILE:HG22	2.47	0.43
2:l:964:VAL:HA	2:l:999:ILE:HA	2.01	0.43
2:l:965:TYR:CD1	2:l:975:LEU:HA	2.52	0.43
1:A:723:PRO:HA	1:A:724:ALA:HA	1.62	0.43
1:A:817:ILE:HG23	1:n:734:MET:HG2	2.01	0.43
2:B:965:TYR:CD1	2:B:975:LEU:HA	2.52	0.43
2:B:1024:THR:CG2	2:B:1025:ALA:N	2.81	0.43
1:D:735:ALA:CB	1:D:739:LEU:HD12	2.24	0.43
3:F:1040:LYS:HG2	3:F:1041:PRO:N	2.31	0.43
1:G:723:PRO:HA	1:G:724:ALA:HA	1.62	0.43
1:G:850:MET:CG	1:G:854:PHE:CZ	3.01	0.43
1:J:742:PRO:HB2	1:M:810:ARG:NE	2.34	0.43
1:M:721:LEU:O	1:S:789:GLY:CA	2.67	0.43
1:M:725:ARG:HH12	1:S:819:ASN:CG	2.25	0.43
1:M:743:LYS:HZ2	1:M:891:ARG:HA	1.84	0.43
1:M:747:ILE:HD12	1:M:809:ILE:HD13	2.00	0.43
2:N:935:GLU:HB2	2:N:936:MET:HE2	1.99	0.43
1:P:745:LYS:HD3	1:P:771:VAL:CG1	2.37	0.43
2:Q:928:TYR:C	3:R:1053:VAL:HG23	2.43	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Q:964:VAL:HA	2:Q:999:ILE:HA	2.01	0.43
1:S:842:TRP:HA	1:S:842:TRP:HE3	1.82	0.43
1:V:787:VAL:CG1	1:V:788:ASP:N	2.81	0.43
2:W:916:LYS:HD2	2:W:1029:VAL:HB	2.00	0.43
2:W:964:VAL:HA	2:W:999:ILE:HA	2.01	0.43
1:Y:729:SER:HB3	1:b:891:ARG:HD2	1.99	0.43
1:e:734:MET:HG2	1:h:817:ILE:HG23	2.01	0.43
2:f:930:MET:HA	2:f:1008:VAL:HA	1.99	0.43
2:o:965:TYR:CD1	2:o:975:LEU:HA	2.52	0.43
3:p:1040:LYS:HG2	3:p:1041:PRO:N	2.31	0.43
1:A:808:ARG:HH21	1:n:743:LYS:HE2	1.78	0.43
2:B:993:VAL:CG1	2:B:994:ALA:N	2.82	0.43
1:D:877:LEU:O	1:D:878:TYR:HB2	2.18	0.43
2:E:919:ALA:HB3	2:E:1026:SER:OG	2.18	0.43
2:E:928:TYR:C	3:F:1053:VAL:HG23	2.43	0.43
1:G:777:LEU:HB3	2:H:916:LYS:NZ	2.31	0.43
2:H:916:LYS:HD2	2:H:1029:VAL:HB	2.00	0.43
1:J:747:ILE:CD1	1:J:889:VAL:HG21	2.49	0.43
1:J:901:LEU:CB	1:J:902:ALA:CA	2.93	0.43
1:M:747:ILE:CD1	1:M:889:VAL:HG21	2.49	0.43
2:N:965:TYR:CD1	2:N:975:LEU:HA	2.52	0.43
2:N:965:TYR:HD1	2:N:976:PRO:CD	2.31	0.43
1:P:726:LEU:HB3	1:S:891:ARG:HH11	1.71	0.43
1:S:726:LEU:HB3	1:V:891:ARG:HH11	1.71	0.43
1:S:743:LYS:HZ1	1:V:808:ARG:HH22	1.67	0.43
1:V:817:ILE:H	1:V:817:ILE:HG12	1.53	0.43
1:V:850:MET:HB2	1:V:850:MET:HE3	1.75	0.43
1:Y:725:ARG:HH12	1:e:819:ASN:CG	2.25	0.43
1:Y:726:LEU:HB3	1:b:891:ARG:HH11	1.71	0.43
2:Z:1026:SER:HA	2:Z:1027:PRO:HD3	1.70	0.43
1:b:734:MET:HG2	1:e:817:ILE:HG23	2.01	0.43
2:c:1006:VAL:HG12	2:c:1007:GLY:H	1.83	0.43
1:e:877:LEU:O	1:e:878:TYR:HB2	2.18	0.43
2:f:963:GLN:HG2	1:h:751:THR:O	2.19	0.43
2:f:964:VAL:HA	2:f:999:ILE:HA	2.01	0.43
1:h:721:LEU:CD2	1:n:822:SER:O	2.61	0.43
1:h:842:TRP:HA	1:h:842:TRP:HE3	1.82	0.43
1:h:901:LEU:CD1	2:i:909:LYS:HG2	2.48	0.43
2:i:1029:VAL:CG1	2:i:1030:ARG:N	2.82	0.43
2:o:1029:VAL:CG1	2:o:1030:ARG:N	2.82	0.43
1:A:736:ASN:HA	1:A:737:PRO:HD3	1.76	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:751:THR:O	2:o:963:GLN:HG2	2.19	0.43
1:A:754:GLU:CD	1:n:828:LEU:HB3	2.43	0.43
2:B:964:VAL:HA	2:B:999:ILE:HA	2.01	0.43
3:C:1057:ILE:HA	3:C:1057:ILE:HD13	1.70	0.43
1:G:733:VAL:HA	1:J:816:THR:N	2.32	0.43
1:G:742:PRO:CG	1:J:810:ARG:CD	2.97	0.43
1:G:851:ILE:HA	1:G:854:PHE:HD2	1.77	0.43
2:H:972:LYS:HB3	2:H:972:LYS:HE2	1.89	0.43
2:K:1009:ARG:HE	2:K:1009:ARG:HB2	1.40	0.43
3:L:1055:LYS:HD3	3:L:1055:LYS:N	2.32	0.43
3:L:1055:LYS:HD2	3:L:1055:LYS:HA	1.65	0.43
1:P:721:LEU:O	1:V:789:GLY:CA	2.67	0.43
1:P:734:MET:HE1	1:P:774:ALA:HB2	2.00	0.43
1:P:851:ILE:CA	1:P:854:PHE:CD2	2.95	0.43
1:V:721:LEU:O	1:b:789:GLY:CA	2.67	0.43
1:V:758:THR:HA	1:V:876:THR:CB	2.49	0.43
1:b:828:LEU:HB3	1:e:754:GLU:CD	2.43	0.43
1:b:877:LEU:O	1:b:878:TYR:HB2	2.18	0.43
1:e:742:PRO:CG	1:h:810:ARG:CD	2.97	0.43
1:h:742:PRO:CG	1:k:810:ARG:CD	2.97	0.43
1:k:734:MET:HG2	1:n:817:ILE:HG23	2.01	0.43
1:k:899:TYR:HD1	2:l:1031:ARG:HG2	1.77	0.43
2:l:1029:VAL:CG1	2:l:1030:ARG:N	2.82	0.43
2:B:963:GLN:HG2	1:D:751:THR:O	2.19	0.42
1:D:747:ILE:HD12	1:D:809:ILE:HD13	1.99	0.42
1:G:747:ILE:HD12	1:G:809:ILE:HD13	2.00	0.42
2:H:993:VAL:CG1	2:H:994:ALA:N	2.82	0.42
2:K:998:ARG:C	2:K:999:ILE:CG1	2.92	0.42
1:M:721:LEU:CD2	1:S:822:SER:O	2.61	0.42
1:M:808:ARG:HD2	1:M:818:VAL:H	1.84	0.42
2:N:964:VAL:HA	2:N:999:ILE:HA	2.01	0.42
2:N:995:LYS:CG	2:N:996:GLU:N	2.82	0.42
1:S:758:THR:HA	1:S:876:THR:CB	2.49	0.42
1:S:851:ILE:HA	1:S:854:PHE:HD2	1.77	0.42
2:T:928:TYR:C	3:U:1053:VAL:HG23	2.43	0.42
1:Y:758:THR:HA	1:Y:876:THR:CB	2.49	0.42
1:e:734:MET:HE1	1:e:774:ALA:HB2	2.00	0.42
2:f:952:ARG:CB	2:f:987:ILE:HG21	2.47	0.42
1:h:747:ILE:CD1	1:h:889:VAL:HG21	2.49	0.42
1:h:787:VAL:CG1	1:h:788:ASP:N	2.81	0.42
1:h:828:LEU:HB3	1:k:754:GLU:CD	2.43	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:850:MET:HB2	1:h:850:MET:HE3	1.75	0.42
2:l:963:GLN:HG2	1:n:751:THR:O	2.19	0.42
1:n:735:ALA:CB	1:n:739:LEU:HD12	2.25	0.42
1:n:771:VAL:HG11	1:n:781:ILE:CD1	2.43	0.42
2:o:993:VAL:CG1	2:o:994:ALA:N	2.82	0.42
1:D:742:PRO:CG	1:G:810:ARG:CD	2.97	0.42
1:D:758:THR:HA	1:D:876:THR:CB	2.49	0.42
2:E:967:ILE:HD13	2:E:967:ILE:HA	1.80	0.42
1:G:747:ILE:CD1	1:G:889:VAL:HG21	2.49	0.42
1:G:877:LEU:O	1:G:878:TYR:HB2	2.18	0.42
2:H:964:VAL:HA	2:H:999:ILE:HA	2.01	0.42
1:J:777:LEU:HB3	2:K:916:LYS:NZ	2.31	0.42
1:J:808:ARG:HD2	1:J:818:VAL:H	1.84	0.42
2:K:964:VAL:HA	2:K:999:ILE:HA	2.01	0.42
1:P:747:ILE:CD1	1:P:889:VAL:HG21	2.49	0.42
1:P:828:LEU:HB3	1:S:754:GLU:CD	2.43	0.42
1:P:842:TRP:HA	1:P:842:TRP:HE3	1.82	0.42
1:S:826:ASN:HD22	1:S:826:ASN:HA	1.58	0.42
1:V:726:LEU:HB3	1:Y:891:ARG:HH11	1.71	0.42
1:V:828:LEU:HB3	1:Y:754:GLU:CD	2.43	0.42
2:W:936:MET:HE1	2:W:1004:LYS:CB	2.40	0.42
2:W:995:LYS:CG	2:W:996:GLU:N	2.82	0.42
2:Z:961:LEU:HA	2:Z:962:PRO:HD2	1.85	0.42
1:b:734:MET:HE1	1:b:774:ALA:HB2	2.00	0.42
1:b:747:ILE:CD1	1:b:889:VAL:HG21	2.49	0.42
1:e:747:ILE:CD1	1:e:889:VAL:HG21	2.49	0.42
1:h:734:MET:HG2	1:k:817:ILE:HG23	2.01	0.42
1:k:742:PRO:HB2	1:n:810:ARG:NE	2.34	0.42
1:k:747:ILE:HD12	1:k:809:ILE:HD13	2.00	0.42
1:k:747:ILE:CD1	1:k:889:VAL:HG21	2.49	0.42
2:o:998:ARG:C	2:o:999:ILE:CG1	2.93	0.42
1:A:734:MET:HG2	1:D:817:ILE:HG23	2.01	0.42
1:A:742:PRO:CG	1:D:810:ARG:CD	2.97	0.42
1:A:758:THR:HA	1:A:876:THR:CB	2.49	0.42
1:A:808:ARG:HD2	1:A:818:VAL:H	1.84	0.42
2:B:995:LYS:CG	2:B:996:GLU:N	2.82	0.42
2:B:998:ARG:C	2:B:999:ILE:CG1	2.93	0.42
1:D:826:ASN:HD22	1:D:826:ASN:HA	1.59	0.42
2:E:964:VAL:HA	2:E:999:ILE:HA	2.01	0.42
1:J:833:ILE:HA	1:J:834:PRO:HD3	1.47	0.42
1:P:787:VAL:CG1	1:P:788:ASP:N	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:928:TYR:C	3:X:1053:VAL:HG23	2.43	0.42
2:W:955:PHE:HA	2:W:955:PHE:HD1	1.56	0.42
2:Z:995:LYS:CG	2:Z:996:GLU:N	2.82	0.42
1:b:755:LEU:HD23	1:b:756:ASP:N	2.34	0.42
1:b:757:THR:HG23	1:b:757:THR:H	1.46	0.42
1:b:802:VAL:CG2	1:b:803:PHE:H	2.26	0.42
2:c:993:VAL:CG1	2:c:994:ALA:N	2.82	0.42
1:h:742:PRO:HB2	1:k:810:ARG:NE	2.33	0.42
2:i:963:GLN:HG2	1:k:751:THR:O	2.19	0.42
1:n:808:ARG:HD2	1:n:818:VAL:H	1.85	0.42
1:n:877:LEU:O	1:n:878:TYR:HB2	2.19	0.42
2:o:964:VAL:HA	2:o:999:ILE:HA	2.01	0.42
2:o:967:ILE:HD13	2:o:967:ILE:HA	1.80	0.42
1:A:747:ILE:HD12	1:A:809:ILE:HD13	2.00	0.42
1:A:822:SER:O	1:k:721:LEU:CD2	2.61	0.42
1:A:850:MET:CG	1:A:854:PHE:CZ	3.01	0.42
1:A:877:LEU:O	1:A:878:TYR:HB2	2.18	0.42
1:D:721:LEU:O	1:J:789:GLY:CA	2.67	0.42
1:D:808:ARG:HD2	1:D:818:VAL:H	1.85	0.42
1:G:758:THR:HA	1:G:876:THR:CB	2.49	0.42
1:J:747:ILE:HD12	1:J:809:ILE:HD13	2.00	0.42
1:J:795:ILE:CG2	1:J:802:VAL:HA	2.50	0.42
1:M:726:LEU:HB3	1:P:891:ARG:HH11	1.71	0.42
1:M:901:LEU:CB	1:M:902:ALA:CA	2.93	0.42
2:N:998:ARG:C	2:N:999:ILE:CG1	2.93	0.42
1:P:730:ARG:HE	1:P:730:ARG:HB3	1.68	0.42
1:P:733:VAL:HA	1:S:816:THR:N	2.32	0.42
1:P:802:VAL:CG2	1:P:803:PHE:H	2.26	0.42
1:P:808:ARG:HD2	1:P:818:VAL:H	1.84	0.42
1:S:877:LEU:O	1:S:878:TYR:HB2	2.19	0.42
1:V:736:ASN:HA	1:V:737:PRO:HD3	1.76	0.42
1:V:833:ILE:HA	1:V:834:PRO:HD3	1.47	0.42
1:V:901:LEU:CB	1:V:902:ALA:CA	2.93	0.42
2:W:1029:VAL:CG1	2:W:1030:ARG:N	2.82	0.42
2:Z:1024:THR:CG2	2:Z:1025:ALA:N	2.81	0.42
1:b:745:LYS:HD3	1:b:771:VAL:CG1	2.37	0.42
1:b:749:CYS:SG	1:b:767:VAL:HA	2.60	0.42
1:b:758:THR:HA	1:b:876:THR:CB	2.49	0.42
1:e:772:TYR:CZ	2:f:991:GLU:HB2	2.55	0.42
1:e:802:VAL:CG2	1:e:803:PHE:H	2.26	0.42
1:h:851:ILE:CA	1:h:854:PHE:CD2	2.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:m:1055:LYS:HD3	3:m:1055:LYS:N	2.32	0.42
1:n:747:ILE:CD1	1:n:889:VAL:HG21	2.49	0.42
1:n:842:TRP:HA	1:n:842:TRP:HE3	1.82	0.42
1:n:899:TYR:HD1	2:o:1031:ARG:HG2	1.77	0.42
1:A:747:ILE:CD1	1:A:889:VAL:HG21	2.49	0.42
1:A:810:ARG:CD	1:n:742:PRO:CG	2.97	0.42
2:E:963:GLN:HG2	1:G:751:THR:O	2.19	0.42
1:G:808:ARG:HD2	1:G:818:VAL:H	1.85	0.42
2:H:998:ARG:C	2:H:999:ILE:CG1	2.93	0.42
1:J:721:LEU:CD2	1:P:822:SER:O	2.61	0.42
1:M:725:ARG:HH12	1:S:808:ARG:HD3	1.84	0.42
2:Q:967:ILE:HD13	2:Q:967:ILE:HA	1.80	0.42
1:S:742:PRO:HB2	1:V:810:ARG:NE	2.33	0.42
1:S:772:TYR:CZ	2:T:991:GLU:HB2	2.55	0.42
1:S:828:LEU:HB3	1:V:754:GLU:CD	2.43	0.42
2:T:930:MET:HE2	2:T:930:MET:HB3	1.65	0.42
1:V:734:MET:HG2	1:Y:817:ILE:HG23	2.01	0.42
1:V:772:TYR:CZ	2:W:991:GLU:HB2	2.55	0.42
3:X:1040:LYS:HG2	3:X:1041:PRO:N	2.31	0.42
1:Y:747:ILE:CD1	1:Y:889:VAL:HG21	2.49	0.42
2:Z:963:GLN:HG2	1:b:751:THR:O	2.19	0.42
1:b:808:ARG:HD2	1:b:818:VAL:H	1.85	0.42
1:b:850:MET:CG	1:b:854:PHE:CZ	3.01	0.42
2:c:964:VAL:HA	2:c:999:ILE:HA	2.01	0.42
1:e:741:VAL:HG13	1:e:772:TYR:O	2.20	0.42
1:e:749:CYS:SG	1:e:767:VAL:HA	2.60	0.42
1:h:833:ILE:HA	1:h:834:PRO:HD3	1.47	0.42
2:i:993:VAL:CG1	2:i:994:ALA:N	2.82	0.42
1:k:851:ILE:CA	1:k:854:PHE:CD2	2.95	0.42
1:n:755:LEU:HD23	1:n:756:ASP:N	2.34	0.42
1:A:755:LEU:HD23	1:A:756:ASP:N	2.34	0.42
2:B:936:MET:HE1	2:B:1004:LYS:CB	2.40	0.42
2:B:1029:VAL:CG1	2:B:1030:ARG:N	2.82	0.42
1:D:725:ARG:NE	1:J:808:ARG:HB2	2.35	0.42
1:D:850:MET:CG	1:D:854:PHE:CZ	3.01	0.42
1:G:725:ARG:HH12	1:M:808:ARG:HD3	1.84	0.42
1:G:725:ARG:HH12	1:M:819:ASN:CG	2.25	0.42
1:G:734:MET:HE1	1:G:774:ALA:HB2	2.00	0.42
2:K:993:VAL:CG1	2:K:994:ALA:N	2.82	0.42
1:M:755:LEU:HD23	1:M:756:ASP:N	2.34	0.42
1:P:721:LEU:CD2	1:V:822:SER:O	2.61	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:742:PRO:HB2	1:S:810:ARG:NE	2.34	0.42
1:P:758:THR:HA	1:P:876:THR:CB	2.49	0.42
1:P:799:GLN:HE21	1:P:800:ALA:H	1.67	0.42
1:P:901:LEU:CB	1:P:902:ALA:CA	2.92	0.42
1:S:799:GLN:HE21	1:S:800:ALA:H	1.67	0.42
2:T:928:TYR:HH	2:T:946:ASP:HB3	1.83	0.42
1:Y:734:MET:HG2	1:b:817:ILE:HG23	2.01	0.42
1:Y:741:VAL:HG13	1:Y:772:TYR:O	2.20	0.42
1:Y:749:CYS:SG	1:Y:767:VAL:HA	2.60	0.42
1:Y:779:ARG:N	2:Z:1025:ALA:HB2	2.35	0.42
1:Y:808:ARG:HD2	1:Y:818:VAL:H	1.85	0.42
1:Y:850:MET:HB2	1:Y:850:MET:HE3	1.75	0.42
2:Z:964:VAL:HA	2:Z:999:ILE:HA	2.01	0.42
3:a:1041:PRO:HA	3:a:1042:PRO:HD3	1.56	0.42
1:b:742:PRO:HB2	1:e:810:ARG:NE	2.33	0.42
2:c:995:LYS:CG	2:c:996:GLU:N	2.82	0.42
3:d:1057:ILE:HA	3:d:1057:ILE:HD13	1.70	0.42
1:e:808:ARG:HD2	1:e:818:VAL:H	1.84	0.42
1:k:742:PRO:CG	1:n:810:ARG:CD	2.97	0.42
1:k:799:GLN:HE21	1:k:800:ALA:H	1.67	0.42
1:n:778:VAL:HG22	2:o:916:LYS:HZ1	1.84	0.42
1:n:799:GLN:HE21	1:n:800:ALA:H	1.67	0.42
1:A:725:ARG:NE	1:G:808:ARG:HB2	2.35	0.42
1:A:777:LEU:HB3	2:B:916:LYS:NZ	2.31	0.42
1:A:814:ASP:HB2	1:A:815:GLY:H	1.71	0.42
1:D:734:MET:HG2	1:G:817:ILE:HG23	2.01	0.42
1:D:741:VAL:HG13	1:D:772:TYR:O	2.20	0.42
1:D:755:LEU:HD23	1:D:756:ASP:N	2.34	0.42
1:D:795:ILE:CG2	1:D:802:VAL:HA	2.50	0.42
3:F:1057:ILE:HA	3:F:1057:ILE:HD13	1.70	0.42
1:G:828:LEU:HD13	1:J:754:GLU:CD	2.28	0.42
1:J:726:LEU:HB3	1:M:891:ARG:HH11	1.71	0.42
1:J:877:LEU:O	1:J:878:TYR:HB2	2.18	0.42
1:M:755:LEU:C	1:M:755:LEU:CD2	2.93	0.42
1:M:842:TRP:HA	1:M:842:TRP:HE3	1.82	0.42
1:S:721:LEU:O	1:Y:789:GLY:CA	2.67	0.42
1:S:901:LEU:CB	1:S:902:ALA:CA	2.93	0.42
2:T:998:ARG:C	2:T:999:ILE:CG1	2.93	0.42
1:V:747:ILE:CD1	1:V:889:VAL:HG21	2.49	0.42
2:W:993:VAL:CG1	2:W:994:ALA:N	2.82	0.42
1:Y:772:TYR:CZ	2:Z:991:GLU:HB2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b:741:VAL:HG13	1:b:772:TYR:O	2.20	0.42
2:c:1029:VAL:CG1	2:c:1030:ARG:N	2.82	0.42
1:e:835:GLY:CA	1:e:877:LEU:HD21	2.50	0.42
1:k:755:LEU:HD23	1:k:756:ASP:N	2.34	0.42
1:k:808:ARG:HD2	1:k:818:VAL:H	1.84	0.42
2:l:998:ARG:C	2:l:999:ILE:CG1	2.92	0.42
3:m:1055:LYS:HD2	3:m:1055:LYS:HA	1.65	0.42
1:n:741:VAL:HG13	1:n:772:TYR:O	2.20	0.42
3:p:1057:ILE:CG2	3:p:1058:PRO:N	2.82	0.42
2:B:967:ILE:HD13	2:B:967:ILE:HA	1.80	0.42
1:D:747:ILE:CD1	1:D:889:VAL:HG21	2.49	0.42
1:D:808:ARG:HB2	1:n:725:ARG:NE	2.35	0.42
2:E:958:ASN:C	2:E:958:ASN:HD22	2.28	0.42
1:G:725:ARG:NE	1:M:808:ARG:HB2	2.35	0.42
1:G:755:LEU:HD23	1:G:756:ASP:N	2.34	0.42
2:K:935:GLU:HB3	2:K:1004:LYS:HZ2	1.84	0.42
2:K:963:GLN:HG2	1:M:751:THR:O	2.19	0.42
2:N:963:GLN:HG2	1:P:751:THR:O	2.19	0.42
1:P:814:ASP:HB2	1:P:815:GLY:H	1.71	0.42
2:Q:958:ASN:C	2:Q:958:ASN:HD22	2.28	0.42
1:S:808:ARG:HD2	1:S:818:VAL:H	1.85	0.42
2:T:964:VAL:HA	2:T:999:ILE:HA	2.01	0.42
1:V:723:PRO:HA	1:V:724:ALA:HA	1.62	0.42
1:V:755:LEU:HD23	1:V:756:ASP:N	2.34	0.42
2:W:998:ARG:C	2:W:999:ILE:CG1	2.93	0.42
1:Y:755:LEU:HD23	1:Y:756:ASP:N	2.34	0.42
2:Z:958:ASN:C	2:Z:958:ASN:HD22	2.28	0.42
1:b:743:LYS:HZ2	1:b:891:ARG:HA	1.82	0.42
2:c:958:ASN:C	2:c:958:ASN:HD22	2.28	0.42
1:e:725:ARG:HH12	1:k:819:ASN:CG	2.24	0.42
1:e:742:PRO:HB2	1:h:810:ARG:NE	2.34	0.42
1:e:745:LYS:HD3	1:e:771:VAL:CG1	2.37	0.42
1:h:749:CYS:SG	1:h:767:VAL:HA	2.60	0.42
1:h:772:TYR:CZ	2:i:991:GLU:HB2	2.55	0.42
1:h:779:ARG:N	2:i:1025:ALA:HB2	2.35	0.42
2:l:993:VAL:CG1	2:l:994:ALA:N	2.82	0.42
1:n:747:ILE:HD12	1:n:809:ILE:HD13	2.00	0.42
1:n:758:THR:HA	1:n:876:THR:CB	2.49	0.42
3:p:1055:LYS:HD2	3:p:1055:LYS:HA	1.65	0.42
3:p:1059:VAL:HG13	3:p:1060:ASP:N	2.32	0.42
1:D:729:SER:HG	1:G:818:VAL:HG22	1.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:725:ARG:NE	1:P:808:ARG:HB2	2.35	0.42
1:J:733:VAL:HA	1:M:816:THR:N	2.32	0.42
1:J:758:THR:HA	1:J:876:THR:CB	2.49	0.42
1:M:745:LYS:HD3	1:M:771:VAL:CG1	2.37	0.42
1:P:779:ARG:HE	1:P:779:ARG:HB3	1.69	0.42
1:S:747:ILE:CD1	1:S:889:VAL:HG21	2.49	0.42
1:S:755:LEU:HD23	1:S:756:ASP:N	2.34	0.42
2:T:935:GLU:HB3	2:T:1004:LYS:HZ2	1.83	0.42
2:T:963:GLN:HG2	1:V:751:THR:O	2.19	0.42
3:X:1055:LYS:HD3	3:X:1055:LYS:N	2.32	0.42
1:Y:742:PRO:HB2	1:b:810:ARG:NE	2.33	0.42
1:Y:787:VAL:CG1	1:Y:788:ASP:N	2.81	0.42
2:Z:966:MET:SD	2:Z:992:THR:HB	2.60	0.42
1:b:772:TYR:CZ	2:c:991:GLU:HB2	2.55	0.42
1:e:755:LEU:C	1:e:755:LEU:CD2	2.93	0.42
1:e:850:MET:HB2	1:e:850:MET:HE3	1.75	0.42
2:f:966:MET:SD	2:f:992:THR:HB	2.60	0.42
2:f:998:ARG:C	2:f:999:ILE:CG1	2.92	0.42
3:g:1057:ILE:CG2	3:g:1058:PRO:N	2.82	0.42
1:h:741:VAL:HG13	1:h:772:TYR:O	2.20	0.42
1:h:799:GLN:HE21	1:h:800:ALA:H	1.67	0.42
2:i:952:ARG:CB	2:i:987:ILE:HG21	2.47	0.42
2:i:964:VAL:HA	2:i:999:ILE:HA	2.01	0.42
1:k:741:VAL:HG13	1:k:772:TYR:O	2.20	0.42
1:k:749:CYS:SG	1:k:767:VAL:HA	2.60	0.42
1:A:771:VAL:HG11	1:A:781:ILE:CD1	2.43	0.42
1:A:799:GLN:HE21	1:A:800:ALA:H	1.67	0.42
1:D:749:CYS:SG	1:D:767:VAL:HA	2.60	0.42
2:E:993:VAL:CG1	2:E:994:ALA:N	2.82	0.42
3:F:1059:VAL:HG13	3:F:1060:ASP:N	2.32	0.42
1:G:787:VAL:CG1	1:G:806:TRP:HB3	2.50	0.42
1:J:729:SER:HB3	1:M:891:ARG:HD2	1.99	0.42
1:J:772:TYR:CZ	2:K:991:GLU:HB2	2.55	0.42
1:M:795:ILE:CG2	1:M:802:VAL:HA	2.50	0.42
1:M:877:LEU:O	1:M:878:TYR:HB2	2.18	0.42
2:N:958:ASN:C	2:N:958:ASN:HD22	2.28	0.42
2:Q:930:MET:HE2	2:Q:930:MET:HB3	1.65	0.42
2:Q:963:GLN:HG2	1:S:751:THR:O	2.19	0.42
3:R:1061:THR:HB	3:R:1062:GLN:H	1.56	0.42
1:S:781:ILE:H	1:S:781:ILE:HG13	1.70	0.42
1:V:741:VAL:HG13	1:V:772:TYR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:749:CYS:SG	1:V:767:VAL:HA	2.60	0.42
1:V:799:GLN:HE21	1:V:800:ALA:H	1.67	0.42
1:V:835:GLY:CA	1:V:877:LEU:HD21	2.50	0.42
1:Y:799:GLN:HE21	1:Y:800:ALA:H	1.67	0.42
1:b:779:ARG:N	2:c:1025:ALA:HB2	2.35	0.42
1:b:891:ARG:HB2	1:b:892:ASP:H	1.58	0.42
2:c:966:MET:SD	2:c:992:THR:HB	2.60	0.42
2:c:972:LYS:HE2	2:c:972:LYS:HB3	1.89	0.42
1:e:734:MET:H	1:e:734:MET:HG3	1.42	0.42
1:e:758:THR:HA	1:e:876:THR:CB	2.49	0.42
2:i:966:MET:SD	2:i:992:THR:HB	2.60	0.42
2:l:966:MET:SD	2:l:992:THR:HB	2.60	0.42
1:n:727:LYS:HG2	1:n:727:LYS:O	2.05	0.42
2:o:966:MET:SD	2:o:992:THR:HB	2.60	0.42
1:A:772:TYR:CZ	2:B:991:GLU:HB2	2.55	0.41
2:E:940:GLN:HB3	2:E:941:PRO:HD2	2.02	0.41
1:G:749:CYS:SG	1:G:767:VAL:HA	2.60	0.41
1:G:772:TYR:CZ	2:H:991:GLU:HB2	2.55	0.41
2:H:958:ASN:C	2:H:958:ASN:HD22	2.28	0.41
2:H:963:GLN:HG2	1:J:751:THR:O	2.19	0.41
1:J:787:VAL:CG1	1:J:806:TRP:HB3	2.50	0.41
1:M:725:ARG:NE	1:S:808:ARG:HB2	2.35	0.41
1:M:787:VAL:CG1	1:M:806:TRP:HB3	2.50	0.41
1:M:802:VAL:CG2	1:M:803:PHE:H	2.26	0.41
1:S:779:ARG:N	2:T:1025:ALA:HB2	2.35	0.41
1:S:899:TYR:HD1	2:T:1031:ARG:HG2	1.77	0.41
2:T:995:LYS:CG	2:T:996:GLU:N	2.82	0.41
1:V:899:TYR:HD1	2:W:1031:ARG:HG2	1.77	0.41
1:Y:721:LEU:O	1:e:806:TRP:HA	2.20	0.41
1:Y:727:LYS:HG2	1:Y:727:LYS:O	2.05	0.41
1:Y:734:MET:H	1:Y:734:MET:HG3	1.42	0.41
1:b:721:LEU:O	1:h:806:TRP:HA	2.20	0.41
1:b:850:MET:HB2	1:b:850:MET:HE3	1.75	0.41
1:e:779:ARG:N	2:f:1025:ALA:HB2	2.35	0.41
1:e:898:VAL:HG13	2:f:1033:GLN:HG3	1.99	0.41
1:h:755:LEU:HD23	1:h:756:ASP:N	2.34	0.41
1:k:757:THR:HG23	1:k:757:THR:H	1.46	0.41
1:k:850:MET:HE3	1:k:850:MET:HB2	1.75	0.41
1:n:749:CYS:SG	1:n:767:VAL:HA	2.60	0.41
1:n:772:TYR:CZ	2:o:991:GLU:HB2	2.55	0.41
1:A:808:ARG:HB2	1:k:725:ARG:NE	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:808:ARG:HH22	1:n:743:LYS:HE2	1.82	0.41
2:B:940:GLN:HB3	2:B:941:PRO:HD2	2.02	0.41
2:B:966:MET:SD	2:B:992:THR:HB	2.60	0.41
1:D:734:MET:HE1	1:D:774:ALA:HB2	2.00	0.41
1:D:772:TYR:CZ	2:E:991:GLU:HB2	2.55	0.41
1:D:787:VAL:CG1	1:D:806:TRP:HB3	2.50	0.41
1:D:851:ILE:HA	1:D:854:PHE:HD2	1.77	0.41
2:E:975:LEU:HA	2:E:976:PRO:HD3	1.65	0.41
2:E:998:ARG:C	2:E:999:ILE:CG1	2.92	0.41
1:G:734:MET:HG2	1:J:817:ILE:HG23	2.01	0.41
2:H:975:LEU:HA	2:H:976:PRO:HD3	1.65	0.41
3:I:1057:ILE:CG2	3:I:1058:PRO:N	2.82	0.41
1:J:755:LEU:C	1:J:755:LEU:CD2	2.93	0.41
2:K:950:PHE:HE1	2:K:991:GLU:CB	2.34	0.41
1:M:734:MET:HG2	1:P:817:ILE:HG23	2.01	0.41
1:M:799:GLN:HE21	1:M:800:ALA:H	1.67	0.41
1:P:787:VAL:CG1	1:P:806:TRP:HB3	2.50	0.41
1:P:874:PRO:HA	1:P:875:PRO:HD3	1.75	0.41
2:Q:998:ARG:C	2:Q:999:ILE:CG1	2.92	0.41
1:S:734:MET:HG2	1:V:817:ILE:HG23	2.01	0.41
1:V:721:LEU:O	1:b:806:TRP:HA	2.20	0.41
1:V:802:VAL:CG2	1:V:803:PHE:H	2.26	0.41
1:V:808:ARG:HD2	1:V:818:VAL:H	1.84	0.41
1:V:850:MET:CG	1:V:854:PHE:CZ	3.01	0.41
1:Y:734:MET:HE1	1:Y:774:ALA:HB2	2.00	0.41
1:Y:795:ILE:CG2	1:Y:802:VAL:HA	2.50	0.41
1:b:799:GLN:HE21	1:b:800:ALA:H	1.67	0.41
1:e:755:LEU:HD23	1:e:756:ASP:N	2.34	0.41
3:g:1055:LYS:HD3	3:g:1055:LYS:N	2.32	0.41
1:h:758:THR:HA	1:h:876:THR:CB	2.49	0.41
1:h:808:ARG:HD2	1:h:818:VAL:H	1.84	0.41
1:h:899:TYR:HD1	2:i:1031:ARG:HG2	1.77	0.41
1:k:874:PRO:HA	1:k:875:PRO:HD3	1.75	0.41
1:n:779:ARG:N	2:o:1025:ALA:HB2	2.35	0.41
1:n:891:ARG:HB2	1:n:892:ASP:H	1.58	0.41
2:o:940:GLN:HB3	2:o:941:PRO:HD2	2.02	0.41
2:o:975:LEU:HA	2:o:976:PRO:HD3	1.65	0.41
1:A:741:VAL:HG13	1:A:772:TYR:O	2.20	0.41
1:A:749:CYS:SG	1:A:767:VAL:HA	2.60	0.41
1:D:779:ARG:N	2:E:1025:ALA:HB2	2.35	0.41
1:G:735:ALA:CB	1:G:739:LEU:HD12	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:772:TYR:HE2	2:H:950:PHE:HZ	1.69	0.41
2:H:940:GLN:HB3	2:H:941:PRO:HD2	2.02	0.41
1:J:734:MET:HG2	1:M:817:ILE:HG23	2.01	0.41
1:J:741:VAL:HG13	1:J:772:TYR:O	2.20	0.41
1:J:755:LEU:HD23	1:J:756:ASP:N	2.34	0.41
1:J:757:THR:HG23	1:J:757:THR:H	1.46	0.41
1:J:802:VAL:CG2	1:J:803:PHE:N	2.79	0.41
3:L:1061:THR:HB	3:L:1062:GLN:H	1.56	0.41
1:M:758:THR:HA	1:M:876:THR:CB	2.49	0.41
1:M:777:LEU:HB3	2:N:916:LYS:NZ	2.31	0.41
2:N:1026:SER:HA	2:N:1027:PRO:HD3	1.70	0.41
3:O:1039:HIS:CE1	1:P:878:TYR:OH	2.74	0.41
1:P:734:MET:HE2	1:P:734:MET:HB2	1.60	0.41
1:P:755:LEU:HD23	1:P:756:ASP:N	2.34	0.41
1:P:843:GLU:HA	1:P:846:ARG:HG2	2.03	0.41
2:Q:950:PHE:HE1	2:Q:991:GLU:CB	2.34	0.41
3:R:1057:ILE:HA	3:R:1057:ILE:HD13	1.70	0.41
1:S:734:MET:HB2	1:S:734:MET:HE2	1.60	0.41
1:S:741:VAL:HG13	1:S:772:TYR:O	2.20	0.41
1:S:787:VAL:CG1	1:S:806:TRP:HB3	2.50	0.41
3:U:1041:PRO:HA	3:U:1042:PRO:HD3	1.56	0.41
1:V:742:PRO:HB2	1:Y:810:ARG:NE	2.33	0.41
1:V:843:GLU:HA	1:V:846:ARG:HG2	2.03	0.41
1:V:891:ARG:HB2	1:V:892:ASP:H	1.58	0.41
2:W:950:PHE:HE1	2:W:991:GLU:CB	2.34	0.41
2:W:954:GLU:HB2	2:W:987:ILE:CD1	2.51	0.41
1:Y:745:LYS:HD3	1:Y:771:VAL:CG1	2.37	0.41
2:Z:972:LYS:HE2	2:Z:972:LYS:HB3	1.89	0.41
2:c:919:ALA:HB2	2:c:1028:ASP:CG	2.46	0.41
2:c:963:GLN:HG2	1:e:751:THR:O	2.19	0.41
2:f:919:ALA:HB2	2:f:1028:ASP:CG	2.46	0.41
1:h:795:ILE:CG2	1:h:802:VAL:HA	2.50	0.41
2:i:998:ARG:C	2:i:999:ILE:CG1	2.93	0.41
2:l:936:MET:CE	2:l:1004:LYS:HB3	2.43	0.41
1:n:835:GLY:CA	1:n:877:LEU:HD21	2.50	0.41
1:A:725:ARG:HH12	1:G:819:ASN:CG	2.25	0.41
1:A:787:VAL:CG1	1:A:806:TRP:HB3	2.50	0.41
1:A:802:VAL:N	1:A:877:LEU:HD22	2.35	0.41
2:B:955:PHE:HD1	2:B:955:PHE:HA	1.56	0.41
2:B:961:LEU:HA	2:B:962:PRO:HD2	1.85	0.41
1:D:817:ILE:H	1:D:817:ILE:HG12	1.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:835:GLY:CA	1:D:877:LEU:HD21	2.50	0.41
1:G:726:LEU:HB3	1:J:891:ARG:HH11	1.71	0.41
1:G:850:MET:HB2	1:G:850:MET:HE3	1.75	0.41
2:H:1029:VAL:CG1	2:H:1030:ARG:N	2.82	0.41
1:J:745:LYS:HD3	1:J:771:VAL:CG1	2.37	0.41
1:J:749:CYS:SG	1:J:767:VAL:HA	2.60	0.41
1:J:787:VAL:HG21	1:J:809:ILE:HG12	1.97	0.41
3:L:1051:VAL:CG1	3:L:1052:PRO:HD2	2.51	0.41
1:M:772:TYR:CZ	2:N:991:GLU:HB2	2.55	0.41
1:P:734:MET:HG2	1:S:817:ILE:HG23	2.01	0.41
1:P:772:TYR:CZ	2:Q:991:GLU:HB2	2.55	0.41
1:P:772:TYR:HE2	2:Q:950:PHE:HZ	1.69	0.41
2:Q:993:VAL:CG1	2:Q:994:ALA:N	2.82	0.41
2:Q:995:LYS:CG	2:Q:996:GLU:N	2.82	0.41
3:R:1057:ILE:CG2	3:R:1058:PRO:N	2.82	0.41
1:S:721:LEU:O	1:Y:806:TRP:HA	2.20	0.41
1:S:749:CYS:SG	1:S:767:VAL:HA	2.60	0.41
2:T:958:ASN:C	2:T:958:ASN:HD22	2.28	0.41
1:V:779:ARG:N	2:W:1025:ALA:HB2	2.35	0.41
1:V:787:VAL:CG1	1:V:806:TRP:HB3	2.50	0.41
1:V:795:ILE:CG2	1:V:802:VAL:HA	2.50	0.41
2:W:966:MET:SD	2:W:992:THR:HB	2.60	0.41
3:X:1039:HIS:CE1	1:Y:878:TYR:OH	2.74	0.41
1:Y:787:VAL:CG1	1:Y:806:TRP:HB3	2.50	0.41
1:b:787:VAL:CG1	1:b:806:TRP:HB3	2.50	0.41
1:b:795:ILE:CG2	1:b:802:VAL:HA	2.50	0.41
1:b:843:GLU:HA	1:b:846:ARG:HG2	2.03	0.41
2:c:998:ARG:C	2:c:999:ILE:CG1	2.93	0.41
1:e:721:LEU:O	1:k:806:TRP:HA	2.20	0.41
1:h:730:ARG:HE	1:h:730:ARG:HB3	1.68	0.41
1:k:795:ILE:CG2	1:k:802:VAL:HA	2.50	0.41
2:l:940:GLN:HB3	2:l:941:PRO:HD2	2.02	0.41
3:m:1041:PRO:HA	3:m:1042:PRO:HD3	1.56	0.41
1:n:772:TYR:CE2	1:n:779:ARG:CG	3.04	0.41
1:A:721:LEU:O	1:G:789:GLY:CA	2.67	0.41
1:A:725:ARG:HH12	1:G:808:ARG:HD3	1.84	0.41
1:A:819:ASN:CG	1:k:725:ARG:HH12	2.24	0.41
2:B:955:PHE:HA	2:B:956:PRO:HD3	1.84	0.41
1:D:772:TYR:CE2	1:D:779:ARG:CG	3.04	0.41
1:D:874:PRO:HA	1:D:875:PRO:HD3	1.75	0.41
1:G:743:LYS:HZ2	1:G:891:ARG:HA	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:779:ARG:N	2:H:1025:ALA:HB2	2.35	0.41
3:I:1051:VAL:CG1	3:I:1052:PRO:HD2	2.50	0.41
1:J:799:GLN:HE21	1:J:800:ALA:H	1.67	0.41
1:J:826:ASN:OD1	1:J:834:PRO:HG2	2.21	0.41
2:K:940:GLN:HB3	2:K:941:PRO:HD2	2.02	0.41
3:L:1039:HIS:CE1	1:M:878:TYR:OH	2.74	0.41
1:M:743:LYS:HE2	1:P:808:ARG:HH21	1.78	0.41
1:M:764:SER:CB	1:M:786:TRP:HZ3	2.33	0.41
1:M:817:ILE:H	1:M:817:ILE:HG12	1.53	0.41
1:M:839:ALA:HB1	1:M:841:MET:HG3	2.00	0.41
1:P:850:MET:CG	1:P:854:PHE:CZ	3.01	0.41
1:P:877:LEU:O	1:P:878:TYR:HB2	2.18	0.41
1:S:725:ARG:HH12	1:Y:808:ARG:HD3	1.84	0.41
1:S:795:ILE:CG2	1:S:802:VAL:HA	2.50	0.41
1:S:844:ARG:CZ	1:S:870:TYR:CE2	3.04	0.41
2:T:950:PHE:HE1	2:T:991:GLU:CB	2.34	0.41
1:Y:835:GLY:CA	1:Y:877:LEU:HD21	2.50	0.41
2:Z:919:ALA:HB2	2:Z:1028:ASP:CG	2.46	0.41
2:Z:954:GLU:HB2	2:Z:987:ILE:CD1	2.50	0.41
2:Z:998:ARG:C	2:Z:999:ILE:CG1	2.92	0.41
1:b:729:SER:HB3	1:e:891:ARG:HD2	1.99	0.41
2:c:948:TYR:HB3	2:c:949:ARG:H	1.60	0.41
2:f:954:GLU:HB2	2:f:987:ILE:CD1	2.51	0.41
2:f:972:LYS:HE2	2:f:972:LYS:HB3	1.89	0.41
2:f:993:VAL:CG1	2:f:994:ALA:N	2.82	0.41
1:h:725:ARG:NE	1:n:808:ARG:HB2	2.35	0.41
1:h:743:LYS:HE2	1:k:808:ARG:HH22	1.82	0.41
1:h:843:GLU:HA	1:h:846:ARG:HG2	2.03	0.41
2:l:962:PRO:HA	2:l:1001:LEU:HD22	2.02	0.41
3:m:1059:VAL:HG13	3:m:1060:ASP:N	2.32	0.41
1:A:826:ASN:OD1	1:A:834:PRO:HG2	2.21	0.41
1:A:843:GLU:HA	1:A:846:ARG:HG2	2.03	0.41
2:B:962:PRO:HA	2:B:1001:LEU:HD22	2.02	0.41
2:E:954:GLU:HB2	2:E:987:ILE:CD1	2.50	0.41
1:G:745:LYS:HE3	1:G:745:LYS:HB2	1.92	0.41
2:H:919:ALA:HB2	2:H:1028:ASP:CG	2.46	0.41
1:M:730:ARG:HE	1:M:730:ARG:HB3	1.68	0.41
1:M:734:MET:HE1	1:M:774:ALA:HB2	2.00	0.41
2:N:940:GLN:HB3	2:N:941:PRO:HD2	2.02	0.41
2:N:993:VAL:CG1	2:N:994:ALA:N	2.82	0.41
1:P:725:ARG:NE	1:V:808:ARG:HB2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:835:GLY:CA	1:P:877:LEU:HD21	2.50	0.41
2:T:1024:THR:HA	2:T:1031:ARG:HD2	2.03	0.41
3:U:1039:HIS:CE1	1:V:878:TYR:OH	2.74	0.41
1:Y:749:CYS:HB3	1:Y:750:GLY:H	1.74	0.41
1:b:730:ARG:HE	1:b:730:ARG:HB3	1.68	0.41
1:h:787:VAL:CG1	1:h:806:TRP:HB3	2.50	0.41
2:i:919:ALA:HB2	2:i:1028:ASP:CG	2.46	0.41
2:i:940:GLN:HB3	2:i:941:PRO:HD2	2.02	0.41
2:i:962:PRO:HA	2:i:1001:LEU:HD22	2.03	0.41
1:k:758:THR:HA	1:k:876:THR:CB	2.49	0.41
1:k:772:TYR:CZ	2:l:991:GLU:HB2	2.55	0.41
1:k:779:ARG:N	2:l:1025:ALA:HB2	2.35	0.41
1:n:772:TYR:HE2	2:o:950:PHE:HZ	1.69	0.41
1:n:787:VAL:CG1	1:n:806:TRP:HB3	2.50	0.41
1:A:734:MET:HE1	1:A:774:ALA:HB2	2.00	0.41
1:A:779:ARG:N	2:B:1025:ALA:HB2	2.35	0.41
1:A:795:ILE:CG2	1:A:802:VAL:HA	2.50	0.41
1:A:839:ALA:HB1	1:A:841:MET:HG3	2.00	0.41
1:A:899:TYR:HD1	2:B:1031:ARG:HG2	1.77	0.41
2:B:1024:THR:HA	2:B:1031:ARG:HD2	2.03	0.41
3:C:1041:PRO:HA	3:C:1042:PRO:HD3	1.56	0.41
1:D:779:ARG:HE	1:D:779:ARG:HB3	1.69	0.41
1:D:799:GLN:HE21	1:D:800:ALA:H	1.67	0.41
1:D:826:ASN:OD1	1:D:834:PRO:HG2	2.21	0.41
2:E:919:ALA:HB2	2:E:1028:ASP:CG	2.46	0.41
2:E:955:PHE:HA	2:E:956:PRO:HD3	1.84	0.41
1:J:721:LEU:HB3	1:P:806:TRP:C	2.46	0.41
1:J:734:MET:HE2	1:J:734:MET:HB2	1.60	0.41
1:J:844:ARG:CZ	1:J:870:TYR:CE2	3.04	0.41
2:K:954:GLU:CG	2:K:987:ILE:HG12	2.51	0.41
1:M:844:ARG:CZ	1:M:870:TYR:CE2	3.04	0.41
1:P:741:VAL:HG13	1:P:772:TYR:O	2.20	0.41
1:P:845:LEU:HD12	1:P:845:LEU:HA	1.87	0.41
3:R:1055:LYS:HD3	3:R:1055:LYS:N	2.32	0.41
2:T:954:GLU:HB2	2:T:987:ILE:CD1	2.51	0.41
2:W:919:ALA:HB2	2:W:1028:ASP:CG	2.46	0.41
3:X:1057:ILE:CG2	3:X:1058:PRO:N	2.82	0.41
3:a:1057:ILE:HA	3:a:1057:ILE:HD13	1.70	0.41
1:b:721:LEU:CD2	1:h:822:SER:O	2.61	0.41
1:b:898:VAL:HG13	2:c:1033:GLN:HG3	1.99	0.41
2:c:954:GLU:HB2	2:c:987:ILE:CD1	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:787:VAL:CG1	1:e:806:TRP:HB3	2.50	0.41
1:e:795:ILE:CG2	1:e:802:VAL:HA	2.50	0.41
1:e:799:GLN:HE21	1:e:800:ALA:H	1.67	0.41
1:e:839:ALA:HB1	1:e:841:MET:HG3	2.00	0.41
2:f:962:PRO:HA	2:f:1001:LEU:HD22	2.02	0.41
1:h:726:LEU:CB	1:k:891:ARG:NH1	2.51	0.41
1:h:743:LYS:HZ1	1:k:808:ARG:HH22	1.69	0.41
1:k:787:VAL:CG1	1:k:806:TRP:HB3	2.50	0.41
1:k:826:ASN:OD1	1:k:834:PRO:HG2	2.21	0.41
1:k:842:TRP:HA	1:k:842:TRP:HE3	1.82	0.41
2:l:930:MET:HB3	2:l:930:MET:HE2	1.65	0.41
2:l:958:ASN:C	2:l:958:ASN:HD22	2.28	0.41
3:m:1040:LYS:HG2	3:m:1041:PRO:N	2.31	0.41
1:n:843:GLU:HA	1:n:846:ARG:HG2	2.03	0.41
2:o:955:PHE:HA	2:o:956:PRO:HD3	1.84	0.41
2:o:962:PRO:HA	2:o:1001:LEU:HD22	2.03	0.41
1:A:749:CYS:CB	1:A:765:CYS:HG	2.34	0.41
1:A:891:ARG:HD2	1:n:729:SER:HB3	1.99	0.41
2:B:948:TYR:HB3	2:B:949:ARG:H	1.60	0.41
2:B:950:PHE:HE1	2:B:991:GLU:CB	2.34	0.41
2:B:954:GLU:HB2	2:B:987:ILE:CD1	2.51	0.41
3:C:1055:LYS:HD2	3:C:1055:LYS:HA	1.65	0.41
2:E:962:PRO:HA	2:E:1001:LEU:HD22	2.03	0.41
2:E:966:MET:SD	2:E:992:THR:HB	2.60	0.41
2:E:980:VAL:N	1:G:766:ARG:NH1	2.69	0.41
1:G:826:ASN:OD1	1:G:834:PRO:HG2	2.21	0.41
1:G:843:GLU:HA	1:G:846:ARG:HG2	2.03	0.41
2:H:980:VAL:N	1:J:766:ARG:NH1	2.69	0.41
1:J:835:GLY:CA	1:J:877:LEU:HD21	2.50	0.41
1:M:721:LEU:HB3	1:S:806:TRP:C	2.46	0.41
1:M:741:VAL:HG13	1:M:772:TYR:O	2.20	0.41
2:N:950:PHE:HE1	2:N:991:GLU:CB	2.34	0.41
1:P:749:CYS:SG	1:P:767:VAL:HA	2.60	0.41
1:P:817:ILE:H	1:P:817:ILE:HG12	1.53	0.41
1:P:826:ASN:OD1	1:P:834:PRO:HG2	2.21	0.41
1:P:836:GLN:HE21	1:P:878:TYR:HD2	1.68	0.41
1:S:772:TYR:HE2	2:T:950:PHE:HZ	1.69	0.41
2:T:980:VAL:N	1:V:766:ARG:NH1	2.69	0.41
3:U:1051:VAL:CG1	3:U:1052:PRO:N	2.84	0.41
1:V:758:THR:HA	1:V:876:THR:HB	2.03	0.41
1:V:836:GLN:HE21	1:V:878:TYR:HD2	1.68	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:980:VAL:N	1:Y:766:ARG:NH1	2.69	0.41
1:Y:743:LYS:HZ1	1:b:808:ARG:HH22	1.69	0.41
3:a:1039:HIS:CE1	1:b:878:TYR:OH	2.74	0.41
1:b:758:THR:HA	1:b:876:THR:HB	2.03	0.41
2:c:1024:THR:HA	2:c:1031:ARG:HD2	2.03	0.41
1:e:758:THR:HA	1:e:876:THR:HB	2.03	0.41
1:e:850:MET:CG	1:e:854:PHE:CZ	3.01	0.41
2:f:950:PHE:HE1	2:f:991:GLU:CB	2.34	0.41
1:h:773:SER:HB3	1:h:774:ALA:H	1.72	0.41
2:i:1024:THR:HA	2:i:1031:ARG:HD2	2.03	0.41
3:j:1055:LYS:HD2	3:j:1055:LYS:HA	1.65	0.41
1:k:843:GLU:HA	1:k:846:ARG:HG2	2.03	0.41
2:l:952:ARG:CB	2:l:987:ILE:HG21	2.47	0.41
2:l:1024:THR:HA	2:l:1031:ARG:HD2	2.03	0.41
3:m:1061:THR:HB	3:m:1062:GLN:H	1.56	0.41
1:n:826:ASN:OD1	1:n:834:PRO:HG2	2.21	0.41
1:n:836:GLN:HE21	1:n:878:TYR:HD2	1.68	0.41
2:o:1024:THR:HA	2:o:1031:ARG:HD2	2.03	0.41
1:A:721:LEU:CD1	1:G:822:SER:C	2.84	0.41
1:A:901:LEU:HD22	2:B:909:LYS:HG2	2.03	0.41
2:B:958:ASN:C	2:B:958:ASN:HD22	2.28	0.41
2:B:980:VAL:N	1:D:766:ARG:NH1	2.69	0.41
1:D:721:LEU:CD1	1:J:822:SER:C	2.84	0.41
1:D:781:ILE:H	1:D:781:ILE:HG13	1.70	0.41
1:D:822:SER:O	1:n:721:LEU:CD2	2.61	0.41
1:D:839:ALA:HB1	1:D:841:MET:HG3	2.00	0.41
2:E:935:GLU:HB3	2:E:1004:LYS:HZ2	1.85	0.41
3:F:1039:HIS:CE1	1:G:878:TYR:OH	2.74	0.41
3:F:1041:PRO:HA	3:F:1042:PRO:HD3	1.56	0.41
1:G:741:VAL:HG13	1:G:772:TYR:O	2.20	0.41
1:G:755:LEU:C	1:G:755:LEU:CD2	2.93	0.41
1:G:795:ILE:CG2	1:G:802:VAL:HA	2.50	0.41
2:H:962:PRO:HA	2:H:1001:LEU:HD22	2.02	0.41
2:H:1024:THR:HA	2:H:1031:ARG:HD2	2.03	0.41
3:I:1059:VAL:HG13	3:I:1060:ASP:N	2.32	0.41
1:J:735:ALA:CB	1:J:739:LEU:HD12	2.25	0.41
1:J:772:TYR:HE2	2:K:950:PHE:HZ	1.69	0.41
2:K:919:ALA:HB2	2:K:1028:ASP:CG	2.46	0.41
2:K:980:VAL:N	1:M:766:ARG:NH1	2.69	0.41
1:M:733:VAL:HA	1:P:816:THR:N	2.32	0.41
1:M:749:CYS:SG	1:M:767:VAL:HA	2.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:779:ARG:N	2:N:1025:ALA:HB2	2.35	0.41
1:M:826:ASN:OD1	1:M:834:PRO:HG2	2.21	0.41
1:M:850:MET:HE3	1:M:850:MET:HB2	1.75	0.41
1:M:851:ILE:CA	1:M:854:PHE:CD2	2.95	0.41
2:N:980:VAL:N	1:P:766:ARG:NH1	2.69	0.41
2:N:1024:THR:HA	2:N:1031:ARG:HD2	2.03	0.41
1:P:721:LEU:O	1:V:806:TRP:HA	2.20	0.41
1:P:721:LEU:HB3	1:V:806:TRP:C	2.46	0.41
1:P:771:VAL:HG11	1:P:781:ILE:CD1	2.43	0.41
1:P:772:TYR:CE2	1:P:779:ARG:CG	3.04	0.41
1:P:795:ILE:CG2	1:P:802:VAL:HA	2.50	0.41
1:P:899:TYR:HD1	2:Q:1031:ARG:HG2	1.77	0.41
2:Q:940:GLN:HB3	2:Q:941:PRO:HD2	2.02	0.41
2:Q:980:VAL:N	1:S:766:ARG:NH1	2.69	0.41
3:R:1039:HIS:CE1	1:S:878:TYR:OH	2.74	0.41
1:S:725:ARG:NE	1:Y:808:ARG:HB2	2.35	0.41
1:S:826:ASN:OD1	1:S:834:PRO:HG2	2.21	0.41
1:S:837:VAL:O	1:S:837:VAL:CG2	2.69	0.41
2:T:919:ALA:HB2	2:T:1028:ASP:CG	2.46	0.41
2:T:955:PHE:HD1	2:T:955:PHE:HA	1.56	0.41
2:T:966:MET:SD	2:T:992:THR:HB	2.60	0.41
1:V:779:ARG:CD	2:W:1025:ALA:HA	2.51	0.41
2:W:1024:THR:HA	2:W:1031:ARG:HD2	2.03	0.41
1:Y:758:THR:HA	1:Y:876:THR:HB	2.03	0.41
1:Y:779:ARG:CD	2:Z:1025:ALA:HA	2.51	0.41
1:Y:802:VAL:CG2	1:Y:803:PHE:H	2.26	0.41
2:Z:950:PHE:HE1	2:Z:991:GLU:CB	2.34	0.41
2:Z:980:VAL:N	1:b:766:ARG:NH1	2.69	0.41
2:Z:993:VAL:CG1	2:Z:994:ALA:N	2.82	0.41
2:Z:1024:THR:HA	2:Z:1031:ARG:HD2	2.03	0.41
3:a:1051:VAL:CG1	3:a:1052:PRO:N	2.84	0.41
1:e:721:LEU:O	1:k:789:GLY:CA	2.67	0.41
1:e:725:ARG:NE	1:k:808:ARG:HB2	2.35	0.41
1:e:781:ILE:H	1:e:781:ILE:HG13	1.70	0.41
1:h:721:LEU:O	1:n:806:TRP:HA	2.20	0.41
1:h:772:TYR:CE2	1:h:779:ARG:CG	3.04	0.41
1:h:826:ASN:OD1	1:h:834:PRO:HG2	2.21	0.41
1:h:844:ARG:CZ	1:h:870:TYR:CE2	3.04	0.41
2:i:928:TYR:HH	2:i:946:ASP:HB3	1.83	0.41
2:i:958:ASN:C	2:i:958:ASN:HD22	2.28	0.41
2:i:972:LYS:HE2	2:i:972:LYS:HB3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k:735:ALA:CB	1:k:739:LEU:HD12	2.25	0.41
1:k:772:TYR:CE2	1:k:779:ARG:CG	3.04	0.41
1:k:844:ARG:CZ	1:k:870:TYR:CE2	3.04	0.41
1:n:795:ILE:CG2	1:n:802:VAL:HA	2.50	0.41
1:n:844:ARG:CZ	1:n:870:TYR:CE2	3.04	0.41
1:n:901:LEU:HD22	2:o:909:LYS:HG2	2.03	0.41
2:o:927:GLN:O	2:o:927:GLN:HG2	2.21	0.41
1:A:721:LEU:CD2	1:G:822:SER:O	2.61	0.41
3:C:1051:VAL:CG1	3:C:1052:PRO:N	2.84	0.41
3:C:1059:VAL:HG13	3:C:1060:ASP:N	2.32	0.41
1:D:721:LEU:CD2	1:J:822:SER:O	2.61	0.41
1:D:726:LEU:HB3	1:G:891:ARG:HH11	1.71	0.41
1:D:743:LYS:HD2	1:D:891:ARG:HA	2.03	0.41
1:D:771:VAL:HG11	1:D:781:ILE:CD1	2.43	0.41
1:D:772:TYR:HE2	2:E:950:PHE:HZ	1.69	0.41
1:D:901:LEU:HD22	2:E:909:LYS:HG2	2.03	0.41
2:E:965:TYR:O	2:E:997:TRP:CE3	2.74	0.41
3:F:1051:VAL:CG1	3:F:1052:PRO:HD2	2.51	0.41
1:G:772:TYR:CE2	1:G:779:ARG:CG	3.04	0.41
1:G:799:GLN:HE21	1:G:800:ALA:H	1.67	0.41
2:H:954:GLU:HB2	2:H:987:ILE:CD1	2.50	0.41
3:I:1039:HIS:CE1	1:J:878:TYR:OH	2.74	0.41
1:J:779:ARG:N	2:K:1025:ALA:HB2	2.35	0.41
1:J:843:GLU:HA	1:J:846:ARG:HG2	2.03	0.41
2:K:954:GLU:HB2	2:K:987:ILE:CD1	2.51	0.41
2:K:962:PRO:HA	2:K:1001:LEU:HD22	2.02	0.41
2:K:1008:VAL:HG12	2:K:1009:ARG:N	2.36	0.41
1:M:837:VAL:O	1:M:837:VAL:CG2	2.69	0.41
3:O:1051:VAL:CG1	3:O:1052:PRO:N	2.84	0.41
1:P:779:ARG:N	2:Q:1025:ALA:HB2	2.35	0.41
1:P:844:ARG:CZ	1:P:870:TYR:CE2	3.04	0.41
1:S:758:THR:HA	1:S:876:THR:HB	2.03	0.41
2:T:943:HIS:HB3	3:U:1058:PRO:HG3	2.03	0.41
2:T:1029:VAL:CG1	2:T:1030:ARG:N	2.82	0.41
2:W:958:ASN:C	2:W:958:ASN:HD22	2.28	0.41
2:W:963:GLN:HG2	1:Y:751:THR:O	2.19	0.41
2:Z:976:PRO:HG3	2:Z:997:TRP:HZ3	1.86	0.41
2:c:962:PRO:HA	2:c:1001:LEU:HD22	2.02	0.41
1:e:721:LEU:CD1	1:k:822:SER:C	2.84	0.41
1:e:727:LYS:HG2	1:e:727:LYS:O	2.05	0.41
1:e:844:ARG:CZ	1:e:870:TYR:CE2	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:f:940:GLN:HB3	2:f:941:PRO:HD2	2.02	0.41
1:h:723:PRO:HA	1:h:724:ALA:HA	1.62	0.41
1:h:758:THR:HA	1:h:876:THR:HB	2.03	0.41
1:h:779:ARG:CD	2:i:1025:ALA:HA	2.51	0.41
1:h:806:TRP:CD1	1:h:887:ILE:CD1	3.04	0.41
1:h:835:GLY:CA	1:h:877:LEU:HD21	2.50	0.41
1:k:772:TYR:HE2	2:l:950:PHE:HZ	1.69	0.41
1:k:806:TRP:CD1	1:k:887:ILE:CD1	3.04	0.41
2:l:976:PRO:HG3	2:l:997:TRP:HZ3	1.86	0.41
3:m:1039:HIS:CE1	1:n:878:TYR:OH	2.74	0.41
1:n:736:ASN:HA	1:n:737:PRO:HD3	1.76	0.41
2:o:954:GLU:HB2	2:o:987:ILE:CD1	2.51	0.41
2:o:985:ARG:HH11	2:o:985:ARG:HD3	1.75	0.41
1:A:764:SER:CB	1:A:786:TRP:HZ3	2.33	0.40
2:B:919:ALA:HB2	2:B:1028:ASP:CG	2.46	0.40
1:G:721:LEU:CD2	1:M:822:SER:O	2.61	0.40
1:G:757:THR:HG23	1:G:757:THR:H	1.46	0.40
1:G:772:TYR:HB3	1:G:773:SER:H	1.72	0.40
1:J:725:ARG:HH12	1:P:808:ARG:HD3	1.84	0.40
2:K:958:ASN:C	2:K:958:ASN:HD22	2.28	0.40
1:M:727:LYS:HG2	1:M:727:LYS:O	2.05	0.40
2:N:1029:VAL:CG1	2:N:1030:ARG:N	2.82	0.40
1:P:758:THR:HA	1:P:876:THR:HB	2.03	0.40
2:Q:919:ALA:HB2	2:Q:1028:ASP:CG	2.46	0.40
2:Q:943:HIS:HB3	3:R:1058:PRO:HG3	2.03	0.40
2:Q:954:GLU:HB2	2:Q:987:ILE:CD1	2.51	0.40
2:Q:1024:THR:HA	2:Q:1031:ARG:HD2	2.03	0.40
1:S:802:VAL:CG2	1:S:803:PHE:H	2.26	0.40
2:T:940:GLN:HB3	2:T:941:PRO:HD2	2.02	0.40
1:V:743:LYS:NZ	1:Y:808:ARG:HH22	2.20	0.40
2:W:943:HIS:HB3	3:X:1058:PRO:HG3	2.03	0.40
2:W:972:LYS:HB3	2:W:972:LYS:HE2	1.89	0.40
1:Y:843:GLU:HA	1:Y:846:ARG:HG2	2.03	0.40
1:b:837:VAL:O	1:b:837:VAL:CG2	2.69	0.40
1:b:851:ILE:HA	1:b:854:PHE:HD2	1.77	0.40
3:d:1039:HIS:CE1	1:e:878:TYR:OH	2.74	0.40
1:e:772:TYR:CE2	1:e:779:ARG:CG	3.04	0.40
1:e:779:ARG:CD	2:f:1025:ALA:HA	2.51	0.40
1:e:843:GLU:HA	1:e:846:ARG:HG2	2.03	0.40
2:f:948:TYR:HB3	2:f:949:ARG:H	1.60	0.40
2:f:958:ASN:C	2:f:958:ASN:HD22	2.28	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h:745:LYS:HD3	1:h:771:VAL:CG1	2.37	0.40
2:i:976:PRO:HG3	2:i:997:TRP:HZ3	1.86	0.40
3:j:1039:HIS:CE1	1:k:878:TYR:OH	2.74	0.40
1:k:836:GLN:HE21	1:k:878:TYR:HD2	1.68	0.40
2:l:927:GLN:O	2:l:927:GLN:HG2	2.21	0.40
2:l:985:ARG:HH11	2:l:985:ARG:HD3	1.76	0.40
1:n:743:LYS:HD2	1:n:891:ARG:HA	2.03	0.40
1:n:773:SER:HB3	1:n:774:ALA:H	1.72	0.40
1:n:806:TRP:CD1	1:n:887:ILE:CD1	3.04	0.40
1:A:766:ARG:NH1	2:o:980:VAL:N	2.69	0.40
1:A:772:TYR:HE2	2:B:950:PHE:HZ	1.69	0.40
1:A:808:ARG:HH22	1:n:743:LYS:NZ	2.20	0.40
2:B:954:GLU:CG	2:B:987:ILE:HG12	2.51	0.40
2:B:981:VAL:HB	3:C:1062:GLN:OE1	2.22	0.40
1:D:764:SER:CB	1:D:786:TRP:HZ3	2.33	0.40
1:D:802:VAL:N	1:D:877:LEU:HD22	2.35	0.40
1:D:828:LEU:H	1:D:828:LEU:HG	1.70	0.40
2:E:981:VAL:HB	3:F:1062:GLN:OE1	2.22	0.40
2:E:1008:VAL:HG12	2:E:1009:ARG:N	2.36	0.40
1:G:901:LEU:HD22	2:H:909:LYS:HG2	2.03	0.40
2:H:954:GLU:CG	2:H:987:ILE:HG12	2.51	0.40
2:H:966:MET:SD	2:H:992:THR:HB	2.60	0.40
1:J:828:LEU:HD13	1:M:754:GLU:CD	2.28	0.40
2:K:1024:THR:HA	2:K:1031:ARG:HD2	2.03	0.40
1:M:772:TYR:HE2	2:N:950:PHE:HZ	1.69	0.40
1:M:835:GLY:CA	1:M:877:LEU:HD21	2.50	0.40
2:N:927:GLN:O	2:N:927:GLN:HG2	2.21	0.40
2:N:930:MET:HE2	2:N:930:MET:HB3	1.65	0.40
2:N:948:TYR:HB3	2:N:949:ARG:H	1.60	0.40
2:N:965:TYR:O	2:N:997:TRP:CE3	2.74	0.40
1:P:725:ARG:HH12	1:V:808:ARG:HD3	1.84	0.40
1:S:721:LEU:HB3	1:Y:806:TRP:C	2.46	0.40
1:V:725:ARG:NE	1:b:808:ARG:HB2	2.35	0.40
1:V:764:SER:CB	1:V:786:TRP:HZ3	2.33	0.40
1:V:844:ARG:CZ	1:V:870:TYR:CE2	3.04	0.40
1:Y:779:ARG:HB2	2:Z:1025:ALA:HA	2.02	0.40
2:Z:930:MET:HE2	2:Z:930:MET:HB3	1.65	0.40
1:b:772:TYR:HE2	2:c:950:PHE:HZ	1.69	0.40
1:b:826:ASN:OD1	1:b:834:PRO:HG2	2.21	0.40
1:b:828:LEU:H	1:b:828:LEU:HG	1.70	0.40
2:c:954:GLU:CG	2:c:987:ILE:HG12	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:743:LYS:NZ	1:h:808:ARG:HH22	2.20	0.40
1:e:806:TRP:CD1	1:e:887:ILE:CD1	3.04	0.40
2:f:976:PRO:HG3	2:f:997:TRP:HZ3	1.86	0.40
2:f:1024:THR:HA	2:f:1031:ARG:HD2	2.03	0.40
1:h:779:ARG:HB2	2:i:1025:ALA:HA	2.02	0.40
2:i:927:GLN:O	2:i:927:GLN:HG2	2.21	0.40
2:i:950:PHE:HE1	2:i:991:GLU:CB	2.34	0.40
2:i:980:VAL:N	1:k:766:ARG:NH1	2.69	0.40
1:k:779:ARG:CD	2:l:1025:ALA:HA	2.51	0.40
2:l:919:ALA:HB2	2:l:1028:ASP:CG	2.46	0.40
2:l:950:PHE:HE1	2:l:991:GLU:CB	2.34	0.40
2:l:980:VAL:N	1:n:766:ARG:NH1	2.69	0.40
2:o:952:ARG:CB	2:o:987:ILE:HG21	2.47	0.40
3:p:1061:THR:HB	3:p:1062:GLN:H	1.56	0.40
1:A:836:GLN:HE21	1:A:878:TYR:HD2	1.68	0.40
1:A:878:TYR:OH	3:p:1039:HIS:CE1	2.74	0.40
2:B:927:GLN:O	2:B:927:GLN:HG2	2.21	0.40
2:B:1008:VAL:HG12	2:B:1009:ARG:N	2.37	0.40
1:D:734:MET:HB2	1:D:734:MET:HE2	1.60	0.40
2:E:954:GLU:CG	2:E:987:ILE:HG12	2.51	0.40
2:E:1024:THR:HA	2:E:1031:ARG:HD2	2.03	0.40
2:H:946:ASP:CG	2:H:1010:ASN:HD21	2.30	0.40
2:K:946:ASP:CG	2:K:1010:ASN:HD21	2.30	0.40
1:M:843:GLU:HA	1:M:846:ARG:HG2	2.03	0.40
2:N:919:ALA:HB2	2:N:1028:ASP:CG	2.46	0.40
2:N:943:HIS:HB3	3:O:1058:PRO:HG3	2.03	0.40
1:P:743:LYS:NZ	1:S:808:ARG:HH22	2.20	0.40
2:Q:975:LEU:HA	2:Q:976:PRO:HD3	1.65	0.40
1:S:721:LEU:CD2	1:Y:822:SER:O	2.61	0.40
1:S:845:LEU:HD12	1:S:845:LEU:HA	1.87	0.40
2:T:981:VAL:HB	3:U:1062:GLN:OE1	2.22	0.40
2:T:993:VAL:CG1	2:T:994:ALA:N	2.82	0.40
1:V:837:VAL:O	1:V:837:VAL:CG2	2.69	0.40
2:W:1005:VAL:HG11	3:X:1043:PRO:HB2	2.04	0.40
1:Y:721:LEU:HB3	1:e:806:TRP:C	2.46	0.40
1:Y:725:ARG:NE	1:e:808:ARG:HB2	2.35	0.40
1:Y:771:VAL:HG11	1:Y:781:ILE:CD1	2.43	0.40
1:Y:772:TYR:CE2	1:Y:779:ARG:CG	3.04	0.40
1:Y:826:ASN:OD1	1:Y:834:PRO:HG2	2.21	0.40
1:Y:837:VAL:O	1:Y:837:VAL:CG2	2.69	0.40
1:Y:844:ARG:CZ	1:Y:870:TYR:CE2	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:Z:940:GLN:HB3	2:Z:941:PRO:HD2	2.02	0.40
2:Z:954:GLU:CG	2:Z:987:ILE:HG12	2.51	0.40
2:Z:1005:VAL:HG11	3:a:1043:PRO:HB2	2.04	0.40
1:b:721:LEU:HB3	1:h:806:TRP:C	2.46	0.40
1:b:725:ARG:NE	1:h:808:ARG:HB2	2.35	0.40
2:c:940:GLN:HB3	2:c:941:PRO:HD2	2.02	0.40
2:c:976:PRO:HG3	2:c:997:TRP:HZ3	1.86	0.40
2:c:980:VAL:N	1:e:766:ARG:NH1	2.69	0.40
2:c:1005:VAL:HG11	3:d:1043:PRO:HB2	2.04	0.40
1:e:779:ARG:HB2	2:f:1025:ALA:HA	2.02	0.40
2:f:954:GLU:HG3	2:f:987:ILE:HG12	2.04	0.40
2:f:1005:VAL:HG11	3:g:1043:PRO:HB2	2.04	0.40
2:i:949:ARG:HB2	2:i:992:THR:O	2.22	0.40
1:k:901:LEU:HD22	2:l:909:LYS:HG2	2.03	0.40
2:l:955:PHE:HA	2:l:956:PRO:HD3	1.84	0.40
3:m:1051:VAL:CG1	3:m:1052:PRO:N	2.84	0.40
2:o:958:ASN:C	2:o:958:ASN:HD22	2.28	0.40
2:o:981:VAL:HB	3:p:1062:GLN:OE1	2.22	0.40
1:A:743:LYS:HD2	1:A:891:ARG:HA	2.03	0.40
1:A:757:THR:CG2	1:A:802:VAL:CG2	2.91	0.40
1:A:759:VAL:HG12	1:A:760:PRO:HD2	2.04	0.40
1:A:789:GLY:CA	1:k:721:LEU:O	2.67	0.40
1:A:806:TRP:CD1	1:A:887:ILE:CD1	3.04	0.40
3:C:1051:VAL:CG1	3:C:1052:PRO:HD2	2.50	0.40
1:D:759:VAL:HG12	1:D:760:PRO:HD2	2.04	0.40
1:D:779:ARG:CD	2:E:1025:ALA:HA	2.51	0.40
2:E:946:ASP:CG	2:E:1010:ASN:HD21	2.30	0.40
2:E:950:PHE:HE1	2:E:991:GLU:CB	2.34	0.40
3:F:1055:LYS:HD3	3:F:1055:LYS:N	2.32	0.40
1:J:734:MET:H	1:J:734:MET:HG3	1.42	0.40
1:J:743:LYS:NZ	1:M:808:ARG:HH22	2.20	0.40
1:J:772:TYR:CE2	1:J:779:ARG:CG	3.04	0.40
1:J:817:ILE:H	1:J:817:ILE:HG12	1.53	0.40
2:K:927:GLN:O	2:K:927:GLN:HG2	2.21	0.40
1:M:772:TYR:HB3	1:M:773:SER:H	1.72	0.40
1:P:736:ASN:HA	1:P:737:PRO:HD3	1.76	0.40
1:P:764:SER:CB	1:P:786:TRP:HZ3	2.33	0.40
1:P:885:VAL:CG2	1:P:886:SER:H	2.21	0.40
2:Q:966:MET:SD	2:Q:992:THR:HB	2.60	0.40
2:T:930:MET:O	3:U:1050:THR:HG23	2.22	0.40
2:T:1005:VAL:HG11	3:U:1043:PRO:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:W:940:GLN:HB3	2:W:941:PRO:HD2	2.02	0.40
2:W:965:TYR:O	2:W:997:TRP:CE3	2.74	0.40
2:W:976:PRO:HG3	2:W:997:TRP:HZ3	1.86	0.40
1:Y:772:TYR:HE2	2:Z:950:PHE:HZ	1.69	0.40
2:Z:944:VAL:HG22	2:Z:953:PHE:CD1	2.56	0.40
1:b:743:LYS:HD2	1:b:891:ARG:HA	2.03	0.40
1:b:844:ARG:CZ	1:b:870:TYR:CE2	3.04	0.40
2:c:946:ASP:CG	2:c:1010:ASN:HD21	2.30	0.40
2:c:954:GLU:HG3	2:c:987:ILE:HG12	2.04	0.40
2:c:975:LEU:HA	2:c:976:PRO:HD3	1.65	0.40
1:e:885:VAL:CG2	1:e:886:SER:H	2.21	0.40
2:f:927:GLN:O	2:f:927:GLN:HG2	2.21	0.40
2:f:954:GLU:CG	2:f:987:ILE:HG12	2.51	0.40
2:f:980:VAL:N	1:h:766:ARG:NH1	2.69	0.40
2:f:981:VAL:HB	3:g:1062:GLN:OE1	2.22	0.40
3:g:1039:HIS:CE1	1:h:878:TYR:OH	2.74	0.40
1:h:721:LEU:O	1:n:789:GLY:CA	2.67	0.40
1:h:901:LEU:HD22	2:i:909:LYS:HG2	2.03	0.40
2:i:1005:VAL:HG11	3:j:1043:PRO:HB2	2.04	0.40
1:k:758:THR:HA	1:k:876:THR:HB	2.03	0.40
2:l:981:VAL:HB	3:m:1062:GLN:OE1	2.22	0.40
2:l:1008:VAL:HG12	2:l:1009:ARG:N	2.37	0.40
2:o:954:GLU:CG	2:o:987:ILE:HG12	2.51	0.40
2:o:976:PRO:HG3	2:o:997:TRP:HZ3	1.86	0.40
1:A:726:LEU:HB3	1:D:891:ARG:HH11	1.71	0.40
1:A:772:TYR:CE2	1:A:779:ARG:CG	3.04	0.40
1:A:806:TRP:HA	1:k:721:LEU:O	2.20	0.40
1:A:826:ASN:HD22	1:A:826:ASN:HA	1.59	0.40
1:A:851:ILE:HA	1:A:854:PHE:HD2	1.77	0.40
1:D:743:LYS:NZ	1:G:808:ARG:HH22	2.19	0.40
1:D:844:ARG:CZ	1:D:870:TYR:CE2	3.04	0.40
3:F:1057:ILE:CG2	3:F:1058:PRO:N	2.82	0.40
1:G:743:LYS:HD2	1:G:891:ARG:HA	2.03	0.40
1:G:759:VAL:HG12	1:G:760:PRO:HD2	2.04	0.40
1:G:837:VAL:O	1:G:837:VAL:CG2	2.69	0.40
2:H:930:MET:O	3:I:1050:THR:HG23	2.22	0.40
3:I:1051:VAL:CG1	3:I:1052:PRO:N	2.84	0.40
1:J:743:LYS:HD2	1:J:891:ARG:HA	2.03	0.40
1:J:743:LYS:HB3	1:J:889:VAL:O	2.22	0.40
1:J:747:ILE:HB	1:J:887:ILE:HG13	2.04	0.40
2:K:966:MET:SD	2:K:992:THR:HB	2.60	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:734:MET:H	1:M:734:MET:HG3	1.42	0.40
1:M:743:LYS:HB3	1:M:889:VAL:O	2.22	0.40
2:N:954:GLU:HB2	2:N:987:ILE:CD1	2.50	0.40
2:N:962:PRO:HA	2:N:1001:LEU:HD22	2.03	0.40
1:P:747:ILE:HB	1:P:887:ILE:HG13	2.04	0.40
2:Q:954:GLU:HG3	2:Q:987:ILE:HG12	2.04	0.40
1:S:743:LYS:NZ	1:V:808:ARG:HH22	2.20	0.40
1:S:747:ILE:HB	1:S:887:ILE:HG13	2.04	0.40
1:S:843:GLU:HA	1:S:846:ARG:HG2	2.03	0.40
1:V:734:MET:HE2	1:V:734:MET:HB2	1.60	0.40
2:W:954:GLU:CG	2:W:987:ILE:HG12	2.51	0.40
2:W:981:VAL:HB	3:X:1062:GLN:OE1	2.22	0.40
3:X:1051:VAL:CG1	3:X:1052:PRO:N	2.84	0.40
1:Y:743:LYS:NZ	1:b:808:ARG:HH22	2.19	0.40
2:Z:927:GLN:O	2:Z:927:GLN:HG2	2.21	0.40
2:Z:943:HIS:HB3	3:a:1058:PRO:HG3	2.03	0.40
2:Z:954:GLU:HG3	2:Z:987:ILE:HG12	2.04	0.40
2:Z:962:PRO:HA	2:Z:1001:LEU:HD22	2.03	0.40
1:b:743:LYS:HE2	1:e:808:ARG:HH22	1.82	0.40
1:b:759:VAL:HG12	1:b:760:PRO:HD2	2.04	0.40
1:b:806:TRP:CD1	1:b:887:ILE:CD1	3.04	0.40
2:c:927:GLN:O	2:c:927:GLN:HG2	2.21	0.40
3:d:1051:VAL:CG1	3:d:1052:PRO:N	2.84	0.40
1:e:721:LEU:HB3	1:k:806:TRP:C	2.46	0.40
1:e:826:ASN:OD1	1:e:834:PRO:HG2	2.21	0.40
2:i:954:GLU:HG3	2:i:987:ILE:HG12	2.04	0.40
1:k:747:ILE:HB	1:k:887:ILE:HG13	2.04	0.40
1:k:817:ILE:H	1:k:817:ILE:HG12	1.53	0.40
2:l:948:TYR:HB3	2:l:949:ARG:H	1.60	0.40
2:l:954:GLU:HG3	2:l:987:ILE:HG12	2.04	0.40
3:m:1051:VAL:CG1	3:m:1052:PRO:HD2	2.50	0.40
3:m:1057:ILE:CG2	3:m:1058:PRO:N	2.82	0.40
1:n:747:ILE:HB	1:n:887:ILE:HG13	2.04	0.40
3:p:1051:VAL:CG1	3:p:1052:PRO:HD2	2.51	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	D	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	G	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	J	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	M	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	P	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	S	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	V	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	Y	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	b	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	e	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	h	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	k	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
1	n	193/216 (89%)	147 (76%)	33 (17%)	13 (7%)	1	12
2	B	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	E	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	H	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	K	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	N	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	Q	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	T	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	W	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	Z	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	c	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	f	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	i	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	l	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
2	o	128/130 (98%)	88 (69%)	26 (20%)	14 (11%)	0	6
3	C	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	F	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	I	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	L	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	O	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	R	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	U	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	X	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	a	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	d	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	g	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	j	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	m	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
3	p	27/48 (56%)	20 (74%)	6 (22%)	1 (4%)	2	20
All	All	4872/5516 (88%)	3570 (73%)	910 (19%)	392 (8%)	1	9

All (392) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	726	LEU
1	A	814	ASP
1	A	878	TYR
1	A	899	TYR
1	A	902	ALA
2	B	1001	LEU
2	B	1033	GLN
1	D	726	LEU
1	D	814	ASP
1	D	878	TYR
1	D	899	TYR
1	D	902	ALA
2	E	1001	LEU
2	E	1033	GLN

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Mol	Chain	Res	Type
1	G	726	LEU
1	G	814	ASP
1	G	878	TYR
1	G	899	TYR
1	G	902	ALA
2	H	1001	LEU
2	H	1033	GLN
1	J	726	LEU
1	J	814	ASP
1	J	878	TYR
1	J	899	TYR
1	J	902	ALA
2	K	1001	LEU
2	K	1033	GLN
1	M	726	LEU
1	M	814	ASP
1	M	878	TYR
1	M	899	TYR
1	M	902	ALA
2	N	1001	LEU
2	N	1033	GLN
1	P	726	LEU
1	P	814	ASP
1	P	878	TYR
1	P	899	TYR
1	P	902	ALA
2	Q	1001	LEU
2	Q	1033	GLN
1	S	726	LEU
1	S	814	ASP
1	S	878	TYR
1	S	899	TYR
1	S	902	ALA
2	T	1001	LEU
2	T	1033	GLN
1	V	726	LEU
1	V	814	ASP
1	V	878	TYR
1	V	899	TYR
1	V	902	ALA
2	W	1001	LEU
2	W	1033	GLN

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Mol	Chain	Res	Type
1	Y	726	LEU
1	Y	814	ASP
1	Y	878	TYR
1	Y	899	TYR
1	Y	902	ALA
2	Z	1001	LEU
2	Z	1033	GLN
1	b	726	LEU
1	b	814	ASP
1	b	878	TYR
1	b	899	TYR
1	b	902	ALA
2	c	1001	LEU
2	c	1033	GLN
1	e	726	LEU
1	e	814	ASP
1	e	878	TYR
1	e	899	TYR
1	e	902	ALA
2	f	1001	LEU
2	f	1033	GLN
1	h	726	LEU
1	h	814	ASP
1	h	878	TYR
1	h	899	TYR
1	h	902	ALA
2	i	1001	LEU
2	i	1033	GLN
1	k	726	LEU
1	k	814	ASP
1	k	878	TYR
1	k	899	TYR
1	k	902	ALA
2	l	1001	LEU
2	l	1033	GLN
1	n	726	LEU
1	n	814	ASP
1	n	878	TYR
1	n	899	TYR
1	n	902	ALA
2	o	1001	LEU
2	o	1033	GLN

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Mol	Chain	Res	Type
1	A	818	VAL
2	B	994	ALA
1	D	818	VAL
2	E	994	ALA
1	G	818	VAL
2	H	994	ALA
1	J	818	VAL
2	K	994	ALA
1	M	818	VAL
2	N	994	ALA
1	P	818	VAL
2	Q	994	ALA
1	S	818	VAL
2	T	994	ALA
1	V	818	VAL
2	W	994	ALA
1	Y	818	VAL
2	Z	994	ALA
1	b	818	VAL
2	c	994	ALA
1	e	818	VAL
2	f	994	ALA
1	h	818	VAL
2	i	994	ALA
1	k	818	VAL
2	l	994	ALA
1	n	818	VAL
2	o	994	ALA
1	A	723	PRO
1	A	735	ALA
1	A	875	PRO
2	B	937	ARG
2	B	1005	VAL
1	D	723	PRO
1	D	735	ALA
1	D	875	PRO
2	E	937	ARG
2	E	1005	VAL
1	G	723	PRO
1	G	735	ALA
1	G	875	PRO
2	H	937	ARG

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Mol	Chain	Res	Type
2	H	1005	VAL
1	J	723	PRO
1	J	735	ALA
1	J	875	PRO
2	K	937	ARG
2	K	1005	VAL
1	M	723	PRO
1	M	735	ALA
1	M	875	PRO
2	N	937	ARG
2	N	1005	VAL
1	P	723	PRO
1	P	735	ALA
1	P	875	PRO
2	Q	937	ARG
2	Q	1005	VAL
1	S	723	PRO
1	S	735	ALA
1	S	875	PRO
2	T	937	ARG
2	T	1005	VAL
1	V	723	PRO
1	V	735	ALA
1	V	875	PRO
2	W	937	ARG
2	W	1005	VAL
1	Y	723	PRO
1	Y	735	ALA
1	Y	875	PRO
2	Z	937	ARG
2	Z	1005	VAL
1	b	723	PRO
1	b	735	ALA
1	b	875	PRO
2	c	937	ARG
2	c	1005	VAL
1	e	723	PRO
1	e	735	ALA
1	e	875	PRO
2	f	937	ARG
2	f	1005	VAL
1	h	723	PRO

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Mol	Chain	Res	Type
1	h	735	ALA
1	h	875	PRO
2	i	937	ARG
2	i	1005	VAL
1	k	723	PRO
1	k	735	ALA
1	k	875	PRO
2	l	937	ARG
2	l	1005	VAL
1	n	723	PRO
1	n	735	ALA
1	n	875	PRO
2	o	937	ARG
2	o	1005	VAL
2	B	950	PHE
2	B	999	ILE
2	B	1020	VAL
2	E	950	PHE
2	E	999	ILE
2	E	1020	VAL
2	H	950	PHE
2	H	999	ILE
2	H	1020	VAL
2	K	950	PHE
2	K	999	ILE
2	K	1020	VAL
2	N	950	PHE
2	N	999	ILE
2	N	1020	VAL
2	Q	950	PHE
2	Q	999	ILE
2	Q	1020	VAL
2	T	950	PHE
2	T	999	ILE
2	T	1020	VAL
2	W	950	PHE
2	W	999	ILE
2	W	1020	VAL
2	Z	950	PHE
2	Z	999	ILE
2	Z	1020	VAL
2	c	950	PHE

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Mol	Chain	Res	Type
2	c	999	ILE
2	c	1020	VAL
2	f	950	PHE
2	f	999	ILE
2	f	1020	VAL
2	i	950	PHE
2	i	999	ILE
2	i	1020	VAL
2	l	950	PHE
2	l	999	ILE
2	l	1020	VAL
2	o	950	PHE
2	o	999	ILE
2	o	1020	VAL
2	B	932	GLU
2	B	1025	ALA
2	E	932	GLU
2	E	1025	ALA
2	H	1025	ALA
2	K	932	GLU
2	K	1025	ALA
2	N	932	GLU
2	N	1025	ALA
2	Q	932	GLU
2	Q	1025	ALA
2	T	932	GLU
2	T	1025	ALA
2	W	932	GLU
2	W	1025	ALA
2	Z	932	GLU
2	Z	1025	ALA
2	c	1025	ALA
2	f	932	GLU
2	f	1025	ALA
2	i	932	GLU
2	i	1025	ALA
2	l	932	GLU
2	l	1025	ALA
2	o	932	GLU
2	o	1025	ALA
1	A	795	ILE
2	B	938	SER

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Mol	Chain	Res	Type
1	D	795	ILE
2	E	938	SER
1	G	795	ILE
2	H	932	GLU
2	H	938	SER
1	J	795	ILE
2	K	938	SER
1	M	795	ILE
2	N	938	SER
1	P	795	ILE
2	Q	938	SER
1	S	795	ILE
2	T	938	SER
1	V	795	ILE
2	W	938	SER
1	Y	795	ILE
2	Z	938	SER
1	b	795	ILE
2	c	932	GLU
2	c	938	SER
1	e	795	ILE
2	f	938	SER
1	h	795	ILE
2	i	938	SER
1	k	795	ILE
2	l	938	SER
1	n	795	ILE
2	o	938	SER
2	B	1007	GLY
2	E	1007	GLY
2	H	1007	GLY
2	K	1007	GLY
2	N	1007	GLY
2	Q	1007	GLY
2	T	1007	GLY
2	W	1007	GLY
2	Z	1007	GLY
2	c	1007	GLY
2	f	1007	GLY
2	i	1007	GLY
2	l	1007	GLY
2	o	1007	GLY

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Mol	Chain	Res	Type
2	B	939	ILE
2	B	1006	VAL
2	E	939	ILE
2	E	1006	VAL
2	H	939	ILE
2	H	1006	VAL
2	K	939	ILE
2	K	1006	VAL
2	N	939	ILE
2	N	1006	VAL
2	Q	939	ILE
2	Q	1006	VAL
2	T	939	ILE
2	T	1006	VAL
2	W	939	ILE
2	W	1006	VAL
2	Z	939	ILE
2	Z	1006	VAL
2	c	939	ILE
2	c	1006	VAL
2	f	939	ILE
2	f	1006	VAL
2	i	939	ILE
2	i	1006	VAL
2	l	939	ILE
2	l	1006	VAL
2	o	939	ILE
2	o	1006	VAL
1	A	898	VAL
3	C	1053	VAL
1	D	898	VAL
3	F	1053	VAL
1	G	898	VAL
3	I	1053	VAL
1	J	898	VAL
3	L	1053	VAL
1	M	898	VAL
3	O	1053	VAL
1	P	898	VAL
3	R	1053	VAL
1	S	898	VAL
3	U	1053	VAL

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Mol	Chain	Res	Type
1	V	898	VAL
3	X	1053	VAL
1	Y	898	VAL
3	a	1053	VAL
1	b	898	VAL
3	d	1053	VAL
1	e	898	VAL
3	g	1053	VAL
1	h	898	VAL
3	j	1053	VAL
1	k	898	VAL
3	m	1053	VAL
1	n	898	VAL
3	p	1053	VAL
1	A	815	GLY
1	A	847	GLY
1	D	815	GLY
1	D	847	GLY
1	G	815	GLY
1	G	847	GLY
1	J	815	GLY
1	J	847	GLY
1	M	815	GLY
1	M	847	GLY
1	P	815	GLY
1	P	847	GLY
1	S	815	GLY
1	S	847	GLY
1	V	815	GLY
1	V	847	GLY
1	Y	815	GLY
1	Y	847	GLY
1	b	815	GLY
1	b	847	GLY
1	e	815	GLY
1	e	847	GLY
1	h	815	GLY
1	h	847	GLY
1	k	815	GLY
1	k	847	GLY
1	n	815	GLY
1	n	847	GLY

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	D	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	G	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	J	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	M	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	P	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	S	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	V	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	Y	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	b	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	e	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	h	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	k	158/176 (90%)	124 (78%)	34 (22%)	1	6
1	n	158/176 (90%)	124 (78%)	34 (22%)	1	6
2	B	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	E	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	H	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	K	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	N	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	Q	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	T	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	W	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	Z	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	c	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	f	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	i	109/109 (100%)	81 (74%)	28 (26%)	0	3

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	l	109/109 (100%)	81 (74%)	28 (26%)	0	3
2	o	109/109 (100%)	81 (74%)	28 (26%)	0	3
3	C	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	F	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	I	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	L	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	O	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	R	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	U	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	X	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	a	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	d	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	g	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	j	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	m	27/43 (63%)	22 (82%)	5 (18%)	1	8
3	p	27/43 (63%)	22 (82%)	5 (18%)	1	8
All	All	4116/4592 (90%)	3178 (77%)	938 (23%)	2	6

All (938) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	709	GLU
1	A	714	SER
1	A	722	THR
1	A	725	ARG
1	A	727	LYS
1	A	730	ARG
1	A	733	VAL
1	A	734	MET
1	A	743	LYS
1	A	747	ILE
1	A	756	ASP
1	A	757	THR
1	A	759	VAL
1	A	780	LEU
1	A	783	LYS

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Mol	Chain	Res	Type
1	A	801	ARG
1	A	803	PHE
1	A	808	ARG
1	A	810	ARG
1	A	817	ILE
1	A	819	ASN
1	A	826	ASN
1	A	828	LEU
1	A	833	ILE
1	A	837	VAL
1	A	845	LEU
1	A	846	ARG
1	A	850	MET
1	A	867	LEU
1	A	871	MET
1	A	886	SER
1	A	891	ARG
1	A	898	VAL
1	A	901	LEU
2	B	908	LYS
2	B	909	LYS
2	B	911	ILE
2	B	913	GLN
2	B	917	GLN
2	B	924	LYS
2	B	938	SER
2	B	939	ILE
2	B	943	HIS
2	B	945	TRP
2	B	947	ASN
2	B	948	TYR
2	B	949	ARG
2	B	961	LEU
2	B	964	VAL
2	B	972	LYS
2	B	975	LEU
2	B	978	SER
2	B	995	LYS
2	B	1003	ASP
2	B	1006	VAL
2	B	1009	ARG
2	B	1012	ASN

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Mol	Chain	Res	Type
2	B	1013	PHE
2	B	1017	ARG
2	B	1020	VAL
2	B	1026	SER
2	B	1032	VAL
3	C	1040	LYS
3	C	1047	TRP
3	C	1054	ASN
3	C	1055	LYS
3	C	1057	ILE
1	D	709	GLU
1	D	714	SER
1	D	722	THR
1	D	725	ARG
1	D	727	LYS
1	D	730	ARG
1	D	733	VAL
1	D	734	MET
1	D	743	LYS
1	D	747	ILE
1	D	756	ASP
1	D	757	THR
1	D	759	VAL
1	D	780	LEU
1	D	783	LYS
1	D	801	ARG
1	D	803	PHE
1	D	808	ARG
1	D	810	ARG
1	D	817	ILE
1	D	819	ASN
1	D	826	ASN
1	D	828	LEU
1	D	833	ILE
1	D	837	VAL
1	D	845	LEU
1	D	846	ARG
1	D	850	MET
1	D	867	LEU
1	D	871	MET
1	D	886	SER
1	D	891	ARG

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Mol	Chain	Res	Type
1	D	898	VAL
1	D	901	LEU
2	E	908	LYS
2	E	909	LYS
2	E	911	ILE
2	E	913	GLN
2	E	917	GLN
2	E	924	LYS
2	E	938	SER
2	E	939	ILE
2	E	943	HIS
2	E	945	TRP
2	E	947	ASN
2	E	948	TYR
2	E	949	ARG
2	E	961	LEU
2	E	964	VAL
2	E	972	LYS
2	E	975	LEU
2	E	978	SER
2	E	995	LYS
2	E	1003	ASP
2	E	1006	VAL
2	E	1009	ARG
2	E	1012	ASN
2	E	1013	PHE
2	E	1017	ARG
2	E	1020	VAL
2	E	1026	SER
2	E	1032	VAL
3	F	1040	LYS
3	F	1047	TRP
3	F	1054	ASN
3	F	1055	LYS
3	F	1057	ILE
1	G	709	GLU
1	G	714	SER
1	G	722	THR
1	G	725	ARG
1	G	727	LYS
1	G	730	ARG
1	G	733	VAL

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Mol	Chain	Res	Type
1	G	734	MET
1	G	743	LYS
1	G	747	ILE
1	G	756	ASP
1	G	757	THR
1	G	759	VAL
1	G	780	LEU
1	G	783	LYS
1	G	801	ARG
1	G	803	PHE
1	G	808	ARG
1	G	810	ARG
1	G	817	ILE
1	G	819	ASN
1	G	826	ASN
1	G	828	LEU
1	G	833	ILE
1	G	837	VAL
1	G	845	LEU
1	G	846	ARG
1	G	850	MET
1	G	867	LEU
1	G	871	MET
1	G	886	SER
1	G	891	ARG
1	G	898	VAL
1	G	901	LEU
2	H	908	LYS
2	H	909	LYS
2	H	911	ILE
2	H	913	GLN
2	H	917	GLN
2	H	924	LYS
2	H	938	SER
2	H	939	ILE
2	H	943	HIS
2	H	945	TRP
2	H	947	ASN
2	H	948	TYR
2	H	949	ARG
2	H	961	LEU
2	H	964	VAL

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Mol	Chain	Res	Type
2	H	972	LYS
2	H	975	LEU
2	H	978	SER
2	H	995	LYS
2	H	1003	ASP
2	H	1006	VAL
2	H	1009	ARG
2	H	1012	ASN
2	H	1013	PHE
2	H	1017	ARG
2	H	1020	VAL
2	H	1026	SER
2	H	1032	VAL
3	I	1040	LYS
3	I	1047	TRP
3	I	1054	ASN
3	I	1055	LYS
3	I	1057	ILE
1	J	709	GLU
1	J	714	SER
1	J	722	THR
1	J	725	ARG
1	J	727	LYS
1	J	730	ARG
1	J	733	VAL
1	J	734	MET
1	J	743	LYS
1	J	747	ILE
1	J	756	ASP
1	J	757	THR
1	J	759	VAL
1	J	780	LEU
1	J	783	LYS
1	J	801	ARG
1	J	803	PHE
1	J	808	ARG
1	J	810	ARG
1	J	817	ILE
1	J	819	ASN
1	J	826	ASN
1	J	828	LEU
1	J	833	ILE

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Mol	Chain	Res	Type
1	J	837	VAL
1	J	845	LEU
1	J	846	ARG
1	J	850	MET
1	J	867	LEU
1	J	871	MET
1	J	886	SER
1	J	891	ARG
1	J	898	VAL
1	J	901	LEU
2	K	908	LYS
2	K	909	LYS
2	K	911	ILE
2	K	913	GLN
2	K	917	GLN
2	K	924	LYS
2	K	938	SER
2	K	939	ILE
2	K	943	HIS
2	K	945	TRP
2	K	947	ASN
2	K	948	TYR
2	K	949	ARG
2	K	961	LEU
2	K	964	VAL
2	K	972	LYS
2	K	975	LEU
2	K	978	SER
2	K	995	LYS
2	K	1003	ASP
2	K	1006	VAL
2	K	1009	ARG
2	K	1012	ASN
2	K	1013	PHE
2	K	1017	ARG
2	K	1020	VAL
2	K	1026	SER
2	K	1032	VAL
3	L	1040	LYS
3	L	1047	TRP
3	L	1054	ASN
3	L	1055	LYS

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Mol	Chain	Res	Type
3	L	1057	ILE
1	M	709	GLU
1	M	714	SER
1	M	722	THR
1	M	725	ARG
1	M	727	LYS
1	M	730	ARG
1	M	733	VAL
1	M	734	MET
1	M	743	LYS
1	M	747	ILE
1	M	756	ASP
1	M	757	THR
1	M	759	VAL
1	M	780	LEU
1	M	783	LYS
1	M	801	ARG
1	M	803	PHE
1	M	808	ARG
1	M	810	ARG
1	M	817	ILE
1	M	819	ASN
1	M	826	ASN
1	M	828	LEU
1	M	833	ILE
1	M	837	VAL
1	M	845	LEU
1	M	846	ARG
1	M	850	MET
1	M	867	LEU
1	M	871	MET
1	M	886	SER
1	M	891	ARG
1	M	898	VAL
1	M	901	LEU
2	N	908	LYS
2	N	909	LYS
2	N	911	ILE
2	N	913	GLN
2	N	917	GLN
2	N	924	LYS
2	N	938	SER

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Mol	Chain	Res	Type
2	N	939	ILE
2	N	943	HIS
2	N	945	TRP
2	N	947	ASN
2	N	948	TYR
2	N	949	ARG
2	N	961	LEU
2	N	964	VAL
2	N	972	LYS
2	N	975	LEU
2	N	978	SER
2	N	995	LYS
2	N	1003	ASP
2	N	1006	VAL
2	N	1009	ARG
2	N	1012	ASN
2	N	1013	PHE
2	N	1017	ARG
2	N	1020	VAL
2	N	1026	SER
2	N	1032	VAL
3	O	1040	LYS
3	O	1047	TRP
3	O	1054	ASN
3	O	1055	LYS
3	O	1057	ILE
1	P	709	GLU
1	P	714	SER
1	P	722	THR
1	P	725	ARG
1	P	727	LYS
1	P	730	ARG
1	P	733	VAL
1	P	734	MET
1	P	743	LYS
1	P	747	ILE
1	P	756	ASP
1	P	757	THR
1	P	759	VAL
1	P	780	LEU
1	P	783	LYS
1	P	801	ARG

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Mol	Chain	Res	Type
1	P	803	PHE
1	P	808	ARG
1	P	810	ARG
1	P	817	ILE
1	P	819	ASN
1	P	826	ASN
1	P	828	LEU
1	P	833	ILE
1	P	837	VAL
1	P	845	LEU
1	P	846	ARG
1	P	850	MET
1	P	867	LEU
1	P	871	MET
1	P	886	SER
1	P	891	ARG
1	P	898	VAL
1	P	901	LEU
2	Q	908	LYS
2	Q	909	LYS
2	Q	911	ILE
2	Q	913	GLN
2	Q	917	GLN
2	Q	924	LYS
2	Q	938	SER
2	Q	939	ILE
2	Q	943	HIS
2	Q	945	TRP
2	Q	947	ASN
2	Q	948	TYR
2	Q	949	ARG
2	Q	961	LEU
2	Q	964	VAL
2	Q	972	LYS
2	Q	975	LEU
2	Q	978	SER
2	Q	995	LYS
2	Q	1003	ASP
2	Q	1006	VAL
2	Q	1009	ARG
2	Q	1012	ASN
2	Q	1013	PHE

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Mol	Chain	Res	Type
2	Q	1017	ARG
2	Q	1020	VAL
2	Q	1026	SER
2	Q	1032	VAL
3	R	1040	LYS
3	R	1047	TRP
3	R	1054	ASN
3	R	1055	LYS
3	R	1057	ILE
1	S	709	GLU
1	S	714	SER
1	S	722	THR
1	S	725	ARG
1	S	727	LYS
1	S	730	ARG
1	S	733	VAL
1	S	734	MET
1	S	743	LYS
1	S	747	ILE
1	S	756	ASP
1	S	757	THR
1	S	759	VAL
1	S	780	LEU
1	S	783	LYS
1	S	801	ARG
1	S	803	PHE
1	S	808	ARG
1	S	810	ARG
1	S	817	ILE
1	S	819	ASN
1	S	826	ASN
1	S	828	LEU
1	S	833	ILE
1	S	837	VAL
1	S	845	LEU
1	S	846	ARG
1	S	850	MET
1	S	867	LEU
1	S	871	MET
1	S	886	SER
1	S	891	ARG
1	S	898	VAL

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Mol	Chain	Res	Type
1	S	901	LEU
2	T	908	LYS
2	T	909	LYS
2	T	911	ILE
2	T	913	GLN
2	T	917	GLN
2	T	924	LYS
2	T	938	SER
2	T	939	ILE
2	T	943	HIS
2	T	945	TRP
2	T	947	ASN
2	T	948	TYR
2	T	949	ARG
2	T	961	LEU
2	T	964	VAL
2	T	972	LYS
2	T	975	LEU
2	T	978	SER
2	T	995	LYS
2	T	1003	ASP
2	T	1006	VAL
2	T	1009	ARG
2	T	1012	ASN
2	T	1013	PHE
2	T	1017	ARG
2	T	1020	VAL
2	T	1026	SER
2	T	1032	VAL
3	U	1040	LYS
3	U	1047	TRP
3	U	1054	ASN
3	U	1055	LYS
3	U	1057	ILE
1	V	709	GLU
1	V	714	SER
1	V	722	THR
1	V	725	ARG
1	V	727	LYS
1	V	730	ARG
1	V	733	VAL
1	V	734	MET

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Mol	Chain	Res	Type
1	V	743	LYS
1	V	747	ILE
1	V	756	ASP
1	V	757	THR
1	V	759	VAL
1	V	780	LEU
1	V	783	LYS
1	V	801	ARG
1	V	803	PHE
1	V	808	ARG
1	V	810	ARG
1	V	817	ILE
1	V	819	ASN
1	V	826	ASN
1	V	828	LEU
1	V	833	ILE
1	V	837	VAL
1	V	845	LEU
1	V	846	ARG
1	V	850	MET
1	V	867	LEU
1	V	871	MET
1	V	886	SER
1	V	891	ARG
1	V	898	VAL
1	V	901	LEU
2	W	908	LYS
2	W	909	LYS
2	W	911	ILE
2	W	913	GLN
2	W	917	GLN
2	W	924	LYS
2	W	938	SER
2	W	939	ILE
2	W	943	HIS
2	W	945	TRP
2	W	947	ASN
2	W	948	TYR
2	W	949	ARG
2	W	961	LEU
2	W	964	VAL
2	W	972	LYS

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Mol	Chain	Res	Type
2	W	975	LEU
2	W	978	SER
2	W	995	LYS
2	W	1003	ASP
2	W	1006	VAL
2	W	1009	ARG
2	W	1012	ASN
2	W	1013	PHE
2	W	1017	ARG
2	W	1020	VAL
2	W	1026	SER
2	W	1032	VAL
3	X	1040	LYS
3	X	1047	TRP
3	X	1054	ASN
3	X	1055	LYS
3	X	1057	ILE
1	Y	709	GLU
1	Y	714	SER
1	Y	722	THR
1	Y	725	ARG
1	Y	727	LYS
1	Y	730	ARG
1	Y	733	VAL
1	Y	734	MET
1	Y	743	LYS
1	Y	747	ILE
1	Y	756	ASP
1	Y	757	THR
1	Y	759	VAL
1	Y	780	LEU
1	Y	783	LYS
1	Y	801	ARG
1	Y	803	PHE
1	Y	808	ARG
1	Y	810	ARG
1	Y	817	ILE
1	Y	819	ASN
1	Y	826	ASN
1	Y	828	LEU
1	Y	833	ILE
1	Y	837	VAL

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Mol	Chain	Res	Type
1	Y	845	LEU
1	Y	846	ARG
1	Y	850	MET
1	Y	867	LEU
1	Y	871	MET
1	Y	886	SER
1	Y	891	ARG
1	Y	898	VAL
1	Y	901	LEU
2	Z	908	LYS
2	Z	909	LYS
2	Z	911	ILE
2	Z	913	GLN
2	Z	917	GLN
2	Z	924	LYS
2	Z	938	SER
2	Z	939	ILE
2	Z	943	HIS
2	Z	945	TRP
2	Z	947	ASN
2	Z	948	TYR
2	Z	949	ARG
2	Z	961	LEU
2	Z	964	VAL
2	Z	972	LYS
2	Z	975	LEU
2	Z	978	SER
2	Z	995	LYS
2	Z	1003	ASP
2	Z	1006	VAL
2	Z	1009	ARG
2	Z	1012	ASN
2	Z	1013	PHE
2	Z	1017	ARG
2	Z	1020	VAL
2	Z	1026	SER
2	Z	1032	VAL
3	a	1040	LYS
3	a	1047	TRP
3	a	1054	ASN
3	a	1055	LYS
3	a	1057	ILE

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Mol	Chain	Res	Type
1	b	709	GLU
1	b	714	SER
1	b	722	THR
1	b	725	ARG
1	b	727	LYS
1	b	730	ARG
1	b	733	VAL
1	b	734	MET
1	b	743	LYS
1	b	747	ILE
1	b	756	ASP
1	b	757	THR
1	b	759	VAL
1	b	780	LEU
1	b	783	LYS
1	b	801	ARG
1	b	803	PHE
1	b	808	ARG
1	b	810	ARG
1	b	817	ILE
1	b	819	ASN
1	b	826	ASN
1	b	828	LEU
1	b	833	ILE
1	b	837	VAL
1	b	845	LEU
1	b	846	ARG
1	b	850	MET
1	b	867	LEU
1	b	871	MET
1	b	886	SER
1	b	891	ARG
1	b	898	VAL
1	b	901	LEU
2	c	908	LYS
2	c	909	LYS
2	c	911	ILE
2	c	913	GLN
2	c	917	GLN
2	c	924	LYS
2	c	938	SER
2	c	939	ILE

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Mol	Chain	Res	Type
2	c	943	HIS
2	c	945	TRP
2	c	947	ASN
2	c	948	TYR
2	c	949	ARG
2	c	961	LEU
2	c	964	VAL
2	c	972	LYS
2	c	975	LEU
2	c	978	SER
2	c	995	LYS
2	c	1003	ASP
2	c	1006	VAL
2	c	1009	ARG
2	c	1012	ASN
2	c	1013	PHE
2	c	1017	ARG
2	c	1020	VAL
2	c	1026	SER
2	c	1032	VAL
3	d	1040	LYS
3	d	1047	TRP
3	d	1054	ASN
3	d	1055	LYS
3	d	1057	ILE
1	e	709	GLU
1	e	714	SER
1	e	722	THR
1	e	725	ARG
1	e	727	LYS
1	e	730	ARG
1	e	733	VAL
1	e	734	MET
1	e	743	LYS
1	e	747	ILE
1	e	756	ASP
1	e	757	THR
1	e	759	VAL
1	e	780	LEU
1	e	783	LYS
1	e	801	ARG
1	e	803	PHE

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Mol	Chain	Res	Type
1	e	808	ARG
1	e	810	ARG
1	e	817	ILE
1	e	819	ASN
1	e	826	ASN
1	e	828	LEU
1	e	833	ILE
1	e	837	VAL
1	e	845	LEU
1	e	846	ARG
1	e	850	MET
1	e	867	LEU
1	e	871	MET
1	e	886	SER
1	e	891	ARG
1	e	898	VAL
1	e	901	LEU
2	f	908	LYS
2	f	909	LYS
2	f	911	ILE
2	f	913	GLN
2	f	917	GLN
2	f	924	LYS
2	f	938	SER
2	f	939	ILE
2	f	943	HIS
2	f	945	TRP
2	f	947	ASN
2	f	948	TYR
2	f	949	ARG
2	f	961	LEU
2	f	964	VAL
2	f	972	LYS
2	f	975	LEU
2	f	978	SER
2	f	995	LYS
2	f	1003	ASP
2	f	1006	VAL
2	f	1009	ARG
2	f	1012	ASN
2	f	1013	PHE
2	f	1017	ARG

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Mol	Chain	Res	Type
2	f	1020	VAL
2	f	1026	SER
2	f	1032	VAL
3	g	1040	LYS
3	g	1047	TRP
3	g	1054	ASN
3	g	1055	LYS
3	g	1057	ILE
1	h	709	GLU
1	h	714	SER
1	h	722	THR
1	h	725	ARG
1	h	727	LYS
1	h	730	ARG
1	h	733	VAL
1	h	734	MET
1	h	743	LYS
1	h	747	ILE
1	h	756	ASP
1	h	757	THR
1	h	759	VAL
1	h	780	LEU
1	h	783	LYS
1	h	801	ARG
1	h	803	PHE
1	h	808	ARG
1	h	810	ARG
1	h	817	ILE
1	h	819	ASN
1	h	826	ASN
1	h	828	LEU
1	h	833	ILE
1	h	837	VAL
1	h	845	LEU
1	h	846	ARG
1	h	850	MET
1	h	867	LEU
1	h	871	MET
1	h	886	SER
1	h	891	ARG
1	h	898	VAL
1	h	901	LEU

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Mol	Chain	Res	Type
2	i	908	LYS
2	i	909	LYS
2	i	911	ILE
2	i	913	GLN
2	i	917	GLN
2	i	924	LYS
2	i	938	SER
2	i	939	ILE
2	i	943	HIS
2	i	945	TRP
2	i	947	ASN
2	i	948	TYR
2	i	949	ARG
2	i	961	LEU
2	i	964	VAL
2	i	972	LYS
2	i	975	LEU
2	i	978	SER
2	i	995	LYS
2	i	1003	ASP
2	i	1006	VAL
2	i	1009	ARG
2	i	1012	ASN
2	i	1013	PHE
2	i	1017	ARG
2	i	1020	VAL
2	i	1026	SER
2	i	1032	VAL
3	j	1040	LYS
3	j	1047	TRP
3	j	1054	ASN
3	j	1055	LYS
3	j	1057	ILE
1	k	709	GLU
1	k	714	SER
1	k	722	THR
1	k	725	ARG
1	k	727	LYS
1	k	730	ARG
1	k	733	VAL
1	k	734	MET
1	k	743	LYS

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Mol	Chain	Res	Type
1	k	747	ILE
1	k	756	ASP
1	k	757	THR
1	k	759	VAL
1	k	780	LEU
1	k	783	LYS
1	k	801	ARG
1	k	803	PHE
1	k	808	ARG
1	k	810	ARG
1	k	817	ILE
1	k	819	ASN
1	k	826	ASN
1	k	828	LEU
1	k	833	ILE
1	k	837	VAL
1	k	845	LEU
1	k	846	ARG
1	k	850	MET
1	k	867	LEU
1	k	871	MET
1	k	886	SER
1	k	891	ARG
1	k	898	VAL
1	k	901	LEU
2	l	908	LYS
2	l	909	LYS
2	l	911	ILE
2	l	913	GLN
2	l	917	GLN
2	l	924	LYS
2	l	938	SER
2	l	939	ILE
2	l	943	HIS
2	l	945	TRP
2	l	947	ASN
2	l	948	TYR
2	l	949	ARG
2	l	961	LEU
2	l	964	VAL
2	l	972	LYS
2	l	975	LEU

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Mol	Chain	Res	Type
2	l	978	SER
2	l	995	LYS
2	l	1003	ASP
2	l	1006	VAL
2	l	1009	ARG
2	l	1012	ASN
2	l	1013	PHE
2	l	1017	ARG
2	l	1020	VAL
2	l	1026	SER
2	l	1032	VAL
3	m	1040	LYS
3	m	1047	TRP
3	m	1054	ASN
3	m	1055	LYS
3	m	1057	ILE
1	n	709	GLU
1	n	714	SER
1	n	722	THR
1	n	725	ARG
1	n	727	LYS
1	n	730	ARG
1	n	733	VAL
1	n	734	MET
1	n	743	LYS
1	n	747	ILE
1	n	756	ASP
1	n	757	THR
1	n	759	VAL
1	n	780	LEU
1	n	783	LYS
1	n	801	ARG
1	n	803	PHE
1	n	808	ARG
1	n	810	ARG
1	n	817	ILE
1	n	819	ASN
1	n	826	ASN
1	n	828	LEU
1	n	833	ILE
1	n	837	VAL
1	n	845	LEU

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Mol	Chain	Res	Type
1	n	846	ARG
1	n	850	MET
1	n	867	LEU
1	n	871	MET
1	n	886	SER
1	n	891	ARG
1	n	898	VAL
1	n	901	LEU
2	o	908	LYS
2	o	909	LYS
2	o	911	ILE
2	o	913	GLN
2	o	917	GLN
2	o	924	LYS
2	o	938	SER
2	o	939	ILE
2	o	943	HIS
2	o	945	TRP
2	o	947	ASN
2	o	948	TYR
2	o	949	ARG
2	o	961	LEU
2	o	964	VAL
2	o	972	LYS
2	o	975	LEU
2	o	978	SER
2	o	995	LYS
2	o	1003	ASP
2	o	1006	VAL
2	o	1009	ARG
2	o	1012	ASN
2	o	1013	PHE
2	o	1017	ARG
2	o	1020	VAL
2	o	1026	SER
2	o	1032	VAL
3	p	1040	LYS
3	p	1047	TRP
3	p	1054	ASN
3	p	1055	LYS
3	p	1057	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (199)

such sidechains are listed below:

Mol	Chain	Res	Type
1	A	736	ASN
1	A	799	GLN
1	A	813	GLN
1	A	826	ASN
1	A	836	GLN
1	A	840	HIS
2	B	913	GLN
2	B	925	ASN
2	B	947	ASN
2	B	958	ASN
2	B	963	GLN
2	B	979	HIS
2	B	1012	ASN
3	C	1039	HIS
1	D	736	ASN
1	D	799	GLN
1	D	813	GLN
1	D	826	ASN
1	D	836	GLN
1	D	840	HIS
2	E	913	GLN
2	E	925	ASN
2	E	947	ASN
2	E	958	ASN
2	E	963	GLN
2	E	979	HIS
2	E	1012	ASN
3	F	1039	HIS
1	G	736	ASN
1	G	799	GLN
1	G	813	GLN
1	G	826	ASN
1	G	836	GLN
1	G	840	HIS
2	H	913	GLN
2	H	925	ASN
2	H	947	ASN
2	H	958	ASN
2	H	963	GLN
2	H	979	HIS
2	H	1012	ASN
3	I	1039	HIS

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Mol	Chain	Res	Type
1	J	736	ASN
1	J	799	GLN
1	J	813	GLN
1	J	826	ASN
1	J	836	GLN
1	J	840	HIS
2	K	913	GLN
2	K	925	ASN
2	K	947	ASN
2	K	958	ASN
2	K	963	GLN
2	K	979	HIS
2	K	1012	ASN
3	L	1039	HIS
1	M	736	ASN
1	M	799	GLN
1	M	813	GLN
1	M	826	ASN
1	M	836	GLN
1	M	840	HIS
2	N	913	GLN
2	N	917	GLN
2	N	925	ASN
2	N	947	ASN
2	N	958	ASN
2	N	963	GLN
2	N	979	HIS
2	N	1012	ASN
3	O	1039	HIS
1	P	736	ASN
1	P	799	GLN
1	P	813	GLN
1	P	826	ASN
1	P	836	GLN
1	P	840	HIS
2	Q	913	GLN
2	Q	925	ASN
2	Q	947	ASN
2	Q	958	ASN
2	Q	963	GLN
2	Q	979	HIS
2	Q	1012	ASN

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Mol	Chain	Res	Type
3	R	1039	HIS
1	S	736	ASN
1	S	799	GLN
1	S	813	GLN
1	S	826	ASN
1	S	836	GLN
1	S	840	HIS
2	T	913	GLN
2	T	925	ASN
2	T	947	ASN
2	T	958	ASN
2	T	963	GLN
2	T	979	HIS
2	T	1012	ASN
3	U	1039	HIS
1	V	736	ASN
1	V	799	GLN
1	V	813	GLN
1	V	826	ASN
1	V	836	GLN
1	V	840	HIS
2	W	913	GLN
2	W	925	ASN
2	W	947	ASN
2	W	958	ASN
2	W	963	GLN
2	W	979	HIS
2	W	1012	ASN
3	X	1039	HIS
1	Y	736	ASN
1	Y	799	GLN
1	Y	813	GLN
1	Y	826	ASN
1	Y	836	GLN
1	Y	840	HIS
2	Z	913	GLN
2	Z	925	ASN
2	Z	947	ASN
2	Z	958	ASN
2	Z	963	GLN
2	Z	979	HIS
2	Z	1012	ASN

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Mol	Chain	Res	Type
3	a	1039	HIS
1	b	736	ASN
1	b	799	GLN
1	b	813	GLN
1	b	826	ASN
1	b	836	GLN
1	b	840	HIS
2	c	913	GLN
2	c	925	ASN
2	c	947	ASN
2	c	958	ASN
2	c	963	GLN
2	c	979	HIS
2	c	1012	ASN
3	d	1039	HIS
1	e	736	ASN
1	e	799	GLN
1	e	813	GLN
1	e	826	ASN
1	e	836	GLN
1	e	840	HIS
1	e	904	ASN
2	f	913	GLN
2	f	925	ASN
2	f	947	ASN
2	f	958	ASN
2	f	963	GLN
2	f	979	HIS
2	f	1012	ASN
3	g	1039	HIS
1	h	736	ASN
1	h	799	GLN
1	h	813	GLN
1	h	826	ASN
1	h	836	GLN
1	h	840	HIS
2	i	913	GLN
2	i	917	GLN
2	i	925	ASN
2	i	947	ASN
2	i	958	ASN
2	i	963	GLN

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Mol	Chain	Res	Type
2	i	979	HIS
2	i	1012	ASN
3	j	1039	HIS
1	k	736	ASN
1	k	799	GLN
1	k	813	GLN
1	k	826	ASN
1	k	836	GLN
1	k	840	HIS
2	l	913	GLN
2	l	925	ASN
2	l	947	ASN
2	l	958	ASN
2	l	963	GLN
2	l	979	HIS
2	l	1012	ASN
3	m	1039	HIS
1	n	736	ASN
1	n	799	GLN
1	n	813	GLN
1	n	826	ASN
1	n	836	GLN
1	n	840	HIS
2	o	913	GLN
2	o	925	ASN
2	o	947	ASN
2	o	958	ASN
2	o	963	GLN
2	o	979	HIS
2	o	1012	ASN
3	p	1039	HIS

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2233. These allow visual inspection of the internal detail of the map and identification of artifacts.

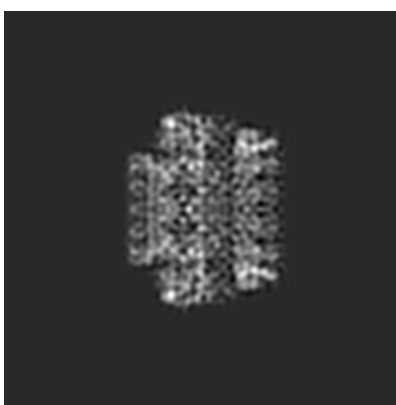
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

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: 80



Y Index: 80



Z Index: 80

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: 97



Y Index: 103

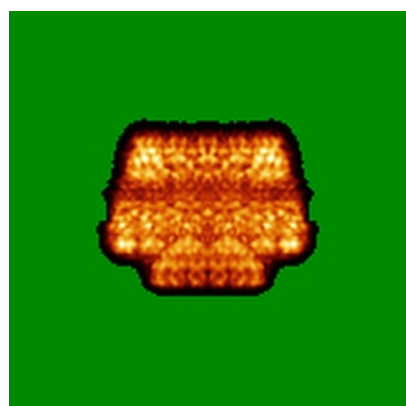


Z Index: 66

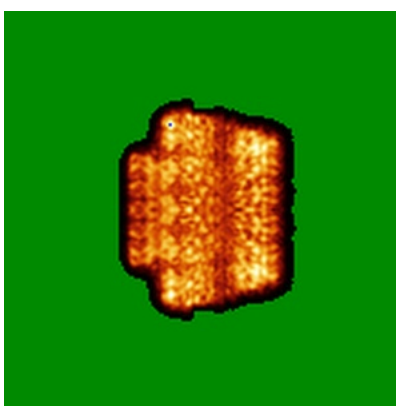
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

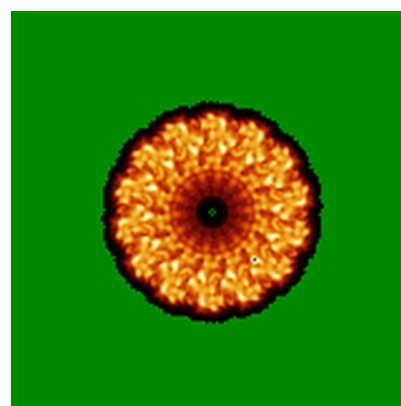
6.4.1 Primary map



X



Y



Z

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

6.5 Orthogonal surface views

This section was not generated.

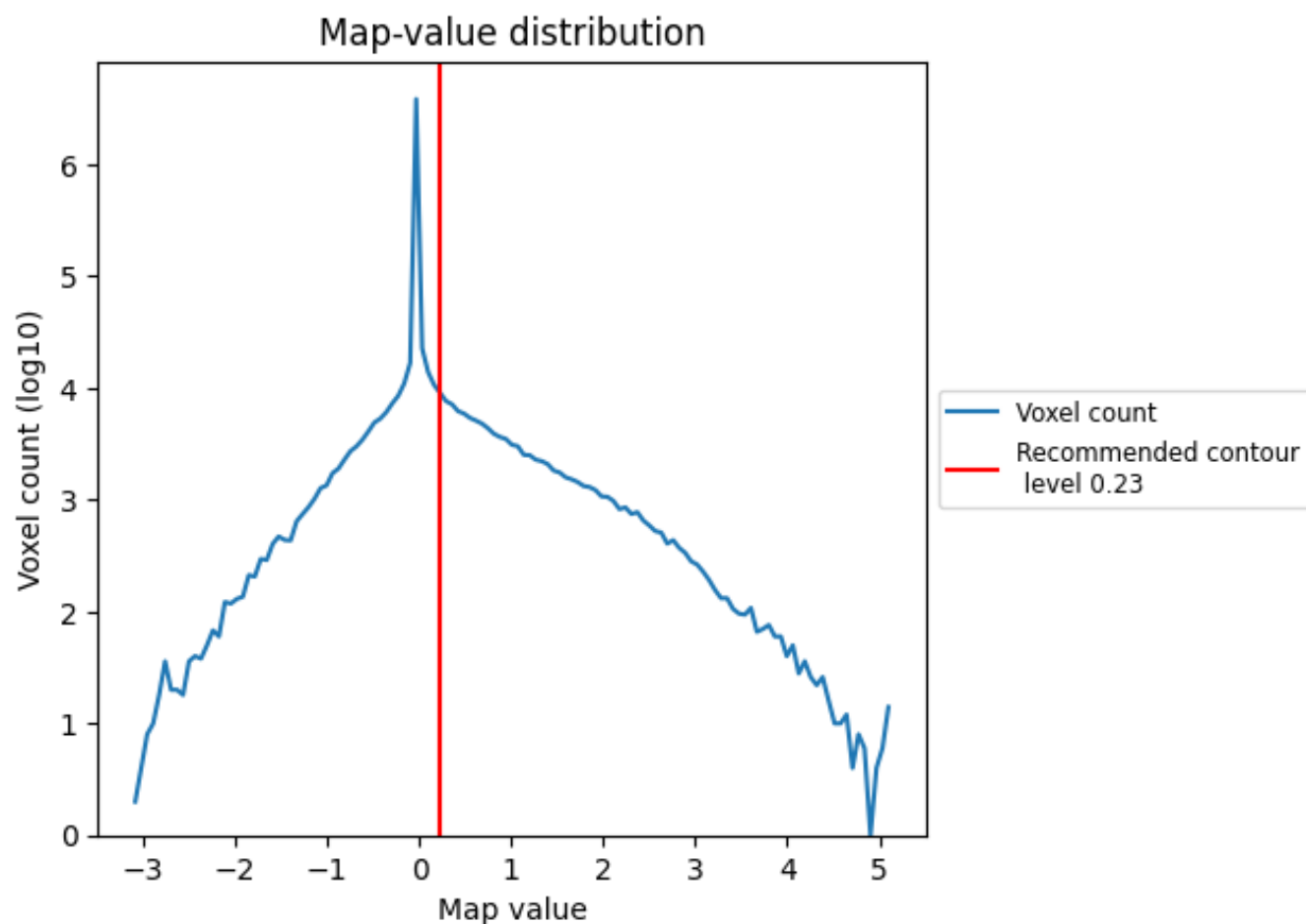
6.6 Mask visualisation

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

7 Map analysis [i](#)

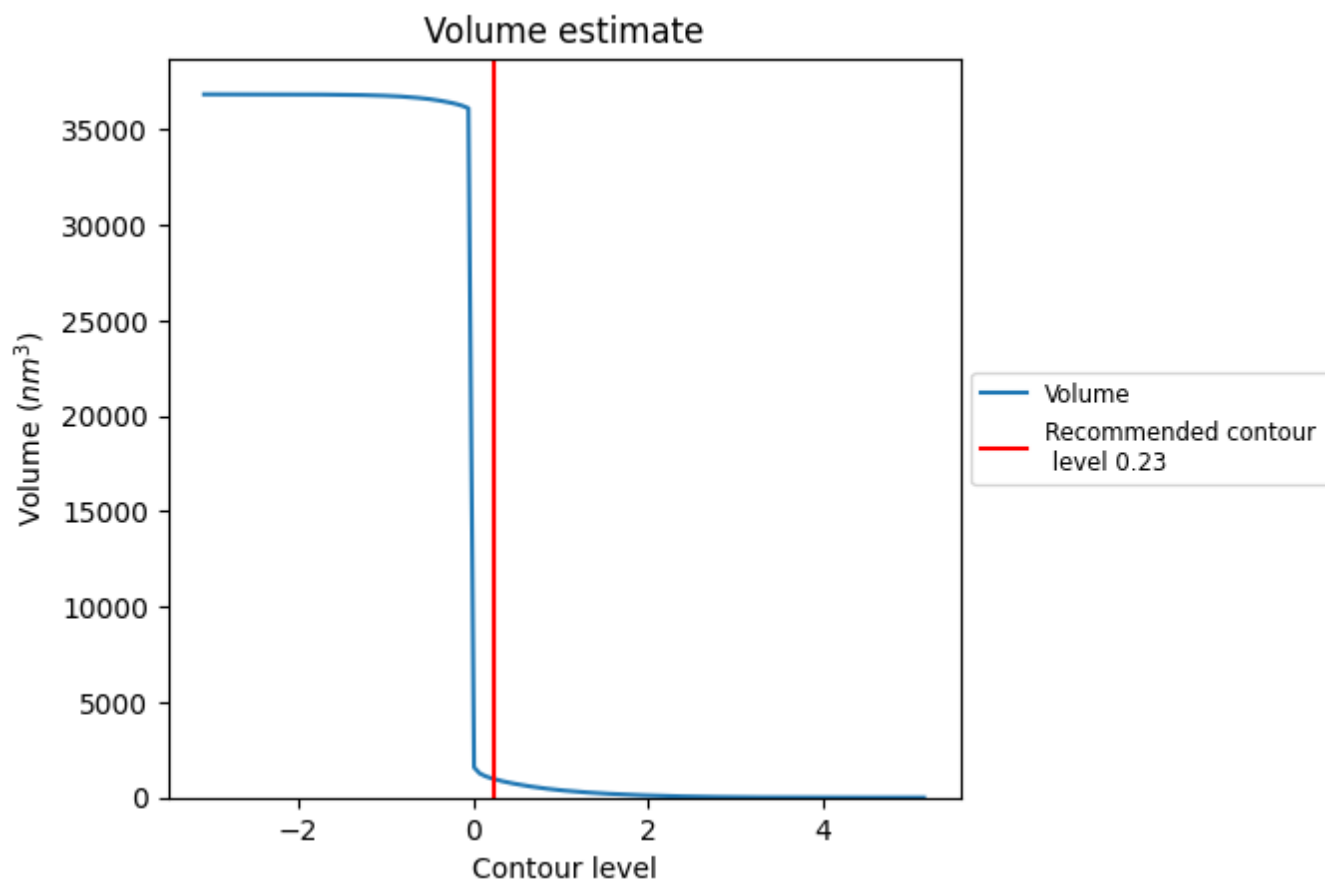
This section contains the results of statistical analysis of the map.

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.

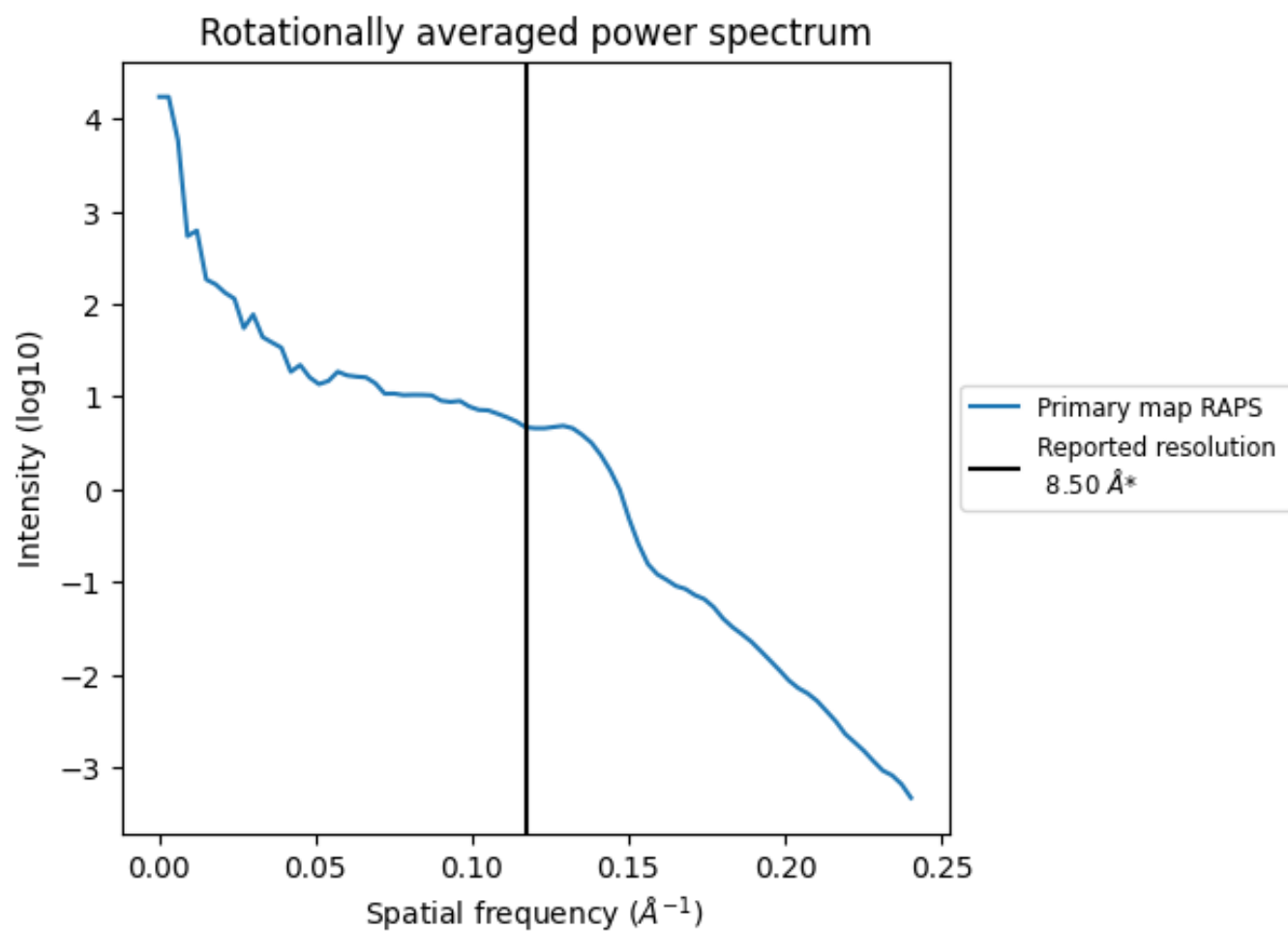
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 983 nm³; this corresponds to an approximate mass of 888 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 ⓘ



*Reported resolution corresponds to spatial frequency of 0.118 Å⁻¹

8 Fourier-Shell correlation

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

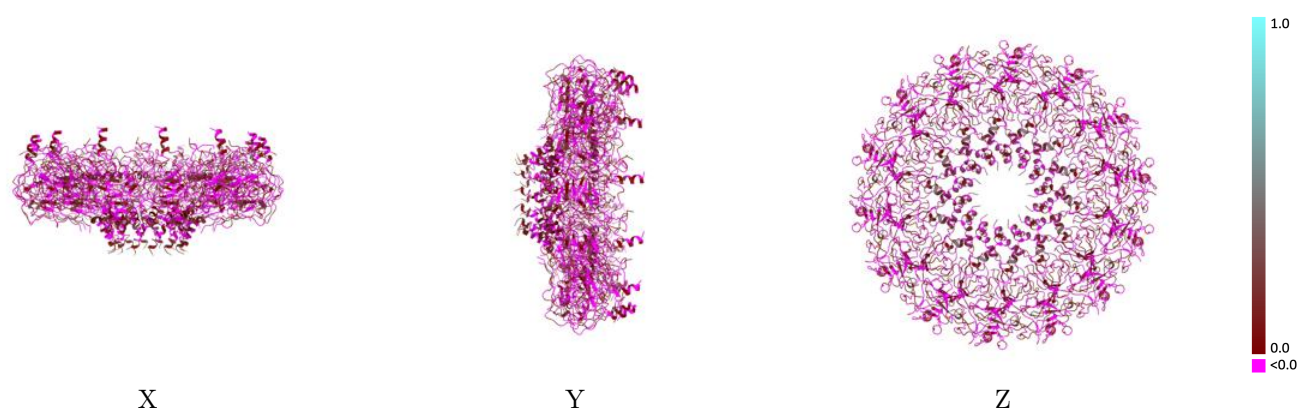
9 Map-model fit ⓘ

This section contains information regarding the fit between EMDB map EMD-2233 and PDB model 3ZBI. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay ⓘ

This section was not generated.

9.2 Q-score mapped to coordinate model ⓘ

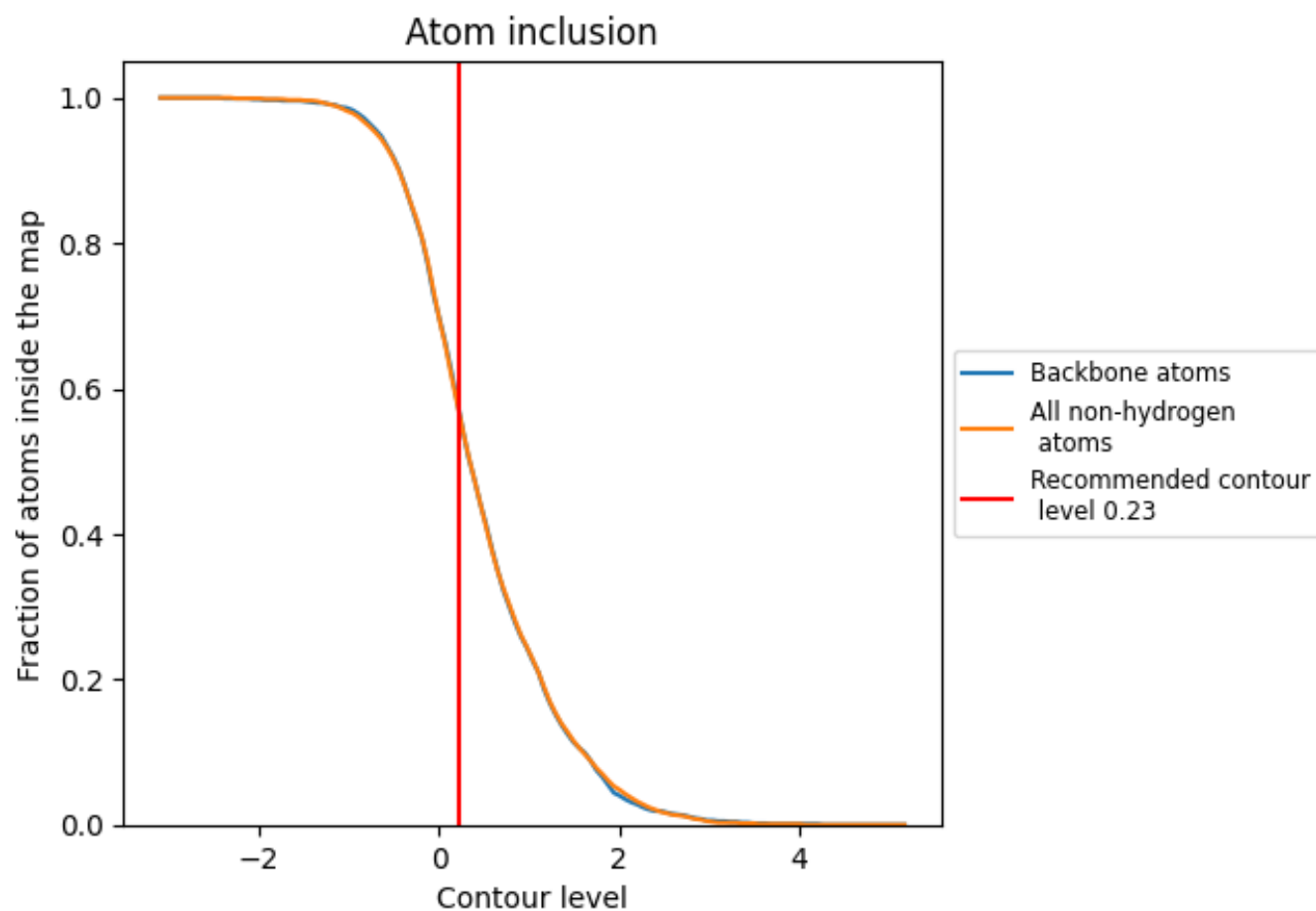


The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 ⓘ

This section was not generated.

9.4 Atom inclusion [i](#)



At the recommended contour level, 57% of all backbone atoms, 56% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.23) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5640	0.0100
A	0.5360	0.0120
B	0.6050	0.0140
C	0.5420	-0.0210
D	0.5340	0.0100
E	0.6100	0.0150
F	0.5520	-0.0160
G	0.5390	0.0140
H	0.6050	0.0210
I	0.5380	-0.0160
J	0.5400	0.0090
K	0.6060	0.0200
L	0.5420	-0.0220
M	0.5390	0.0090
N	0.6040	0.0170
O	0.5660	-0.0150
P	0.5440	0.0110
Q	0.6060	0.0130
R	0.5520	-0.0220
S	0.5320	0.0110
T	0.6000	0.0160
U	0.5380	-0.0190
V	0.5360	0.0120
W	0.6050	0.0140
X	0.5420	-0.0140
Y	0.5340	0.0100
Z	0.6100	0.0130
a	0.5520	-0.0170
b	0.5390	0.0140
c	0.6050	0.0170
d	0.5380	-0.0160
e	0.5400	0.0110
f	0.6060	0.0160
g	0.5420	-0.0310
h	0.5390	0.0090



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Chain	Atom inclusion	Q-score
i	 0.6040	 0.0170
j	 0.5660	 -0.0200
k	 0.5440	 0.0110
l	 0.6060	 0.0130
m	 0.5520	 -0.0260
n	 0.5320	 0.0100
o	 0.6000	 0.0140
p	 0.5380	 -0.0200