Full wwPDB EM Validation Report ⓘ

Apr 1, 2025 – 09:20 pm BST

PDB ID	:	5MVA / pdb_00005mva
EMDB ID	:	EMD-3576
Title	:	Structure of the thin filament at high calcium concentration
Authors	:	Paul, D.M.; Squire, J.M.; Morris, E.P.
Deposited on	:	2017-01-16
Resolution	:	27.70 Å(reported)

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

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

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

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

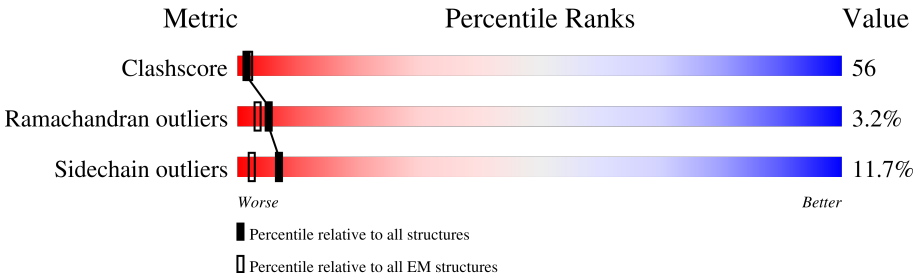
EMDB validation analysis	:	0.0.1.dev117
Mogul	:	1.8.4, CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.42

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 27.70 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% 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	375	97% 56% 34% 9%
1	B	375	84% 57% 33% 10%
1	C	375	28% 55% 35% 9%
1	D	375	67% 55% 34% 10%
1	E	375	10% 55% 34% 10%
1	F	375	55% 56% 34% 9%
1	G	375	17% 56% 34% 9%
1	H	375	43% 55% 35% 9%

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Mol	Chain	Length	Quality of chain
1	I	375	34% 55% 34% 10%
1	J	375	35% 55% 35% 9%
1	K	375	42% 56% 34% 10%
1	L	375	39% 55% 35% 9%
1	M	375	43% 55% 34% 10%
1	N	375	38% 55% 35% 9%
1	O	375	45% 55% 34% 10%
1	P	375	22% 55% 35% 9%
1	Q	375	57% 56% 34% 9%
1	R	375	7% 56% 34% 9%
1	S	375	51% 56% 34% 9%
1	T	375	20% 55% 35% 10%
1	U	375	44% 56% 34% 9%
1	V	375	28% 56% 34% 9%
1	W	375	39% 56% 35% 9%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 68103 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 Actin, alpha skeletal muscle.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	B	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	C	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	D	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	E	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	F	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	G	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	H	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	I	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	J	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	K	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	L	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	M	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	N	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	O	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	P	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	Q	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		

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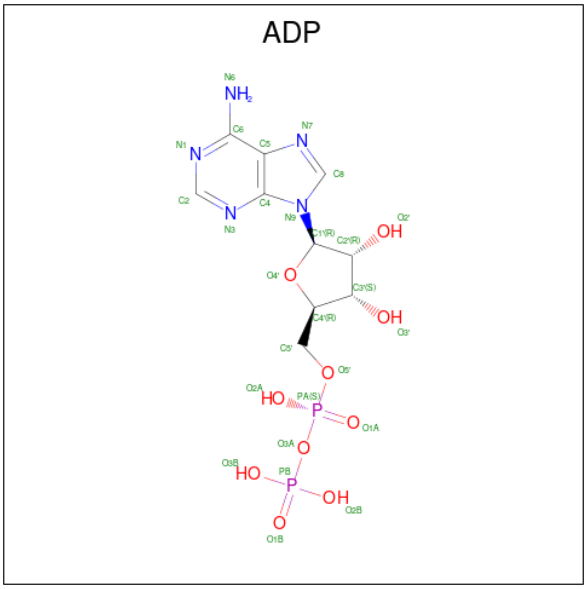
Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	S	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	T	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	U	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	V	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		
1	W	375	Total	C	N	O	S	0	0
			2934	1855	493	565	21		

- Molecule 2 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$).



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	B	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	C	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	D	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	E	1	Total	C	N	O	P	0
			27	10	5	10	2	

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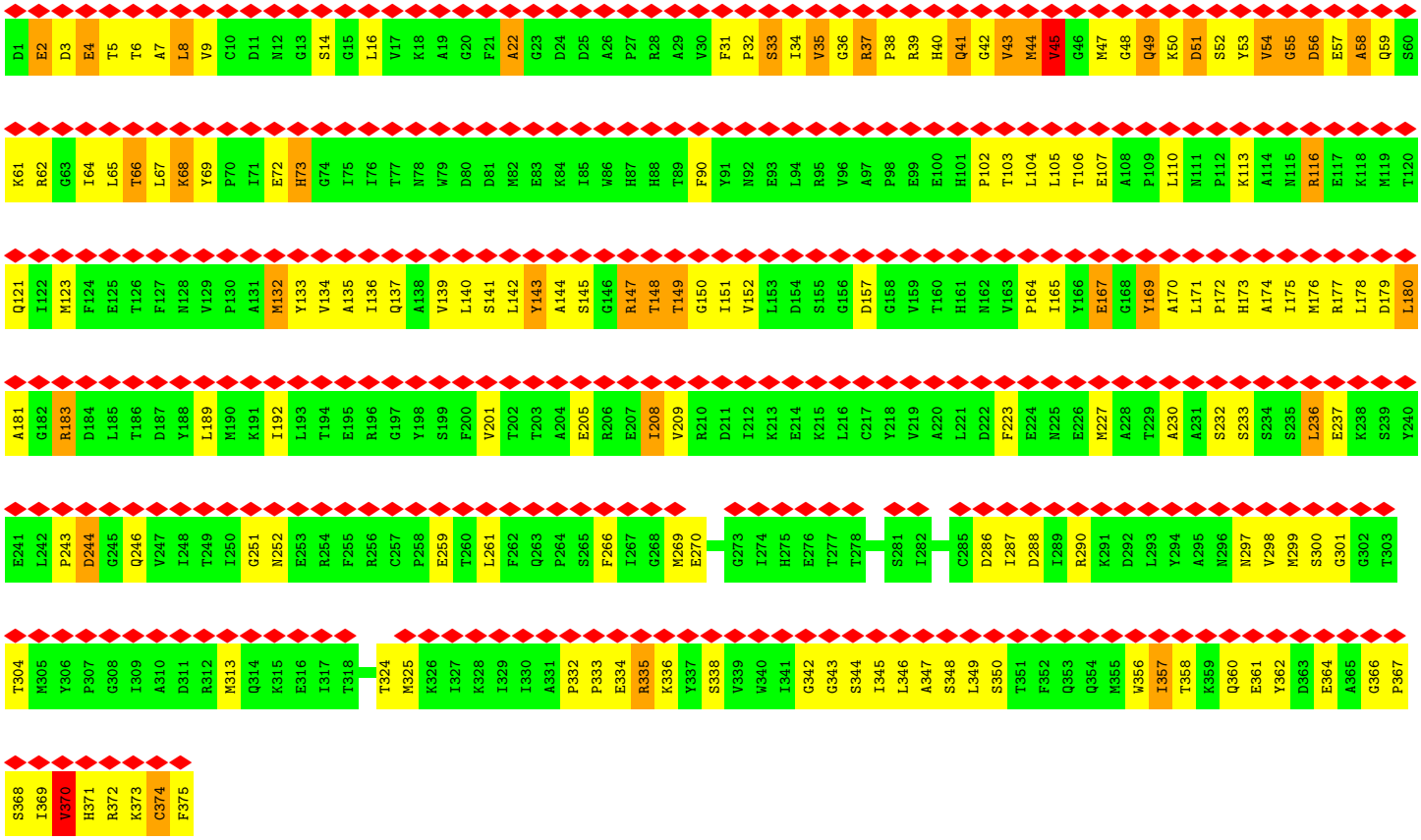
Mol	Chain	Residues	Atoms					AltConf
2	F	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	G	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	H	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	I	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	J	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	K	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	L	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	M	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	N	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	O	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	P	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	Q	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	R	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	S	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	T	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	U	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	V	1	Total	C	N	O	P	0
			27	10	5	10	2	
2	W	1	Total	C	N	O	P	0
			27	10	5	10	2	

3 Residue-property plots (i)

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

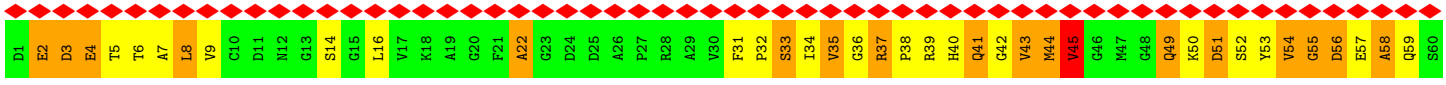
• Molecule 1: Actin, alpha skeletal muscle

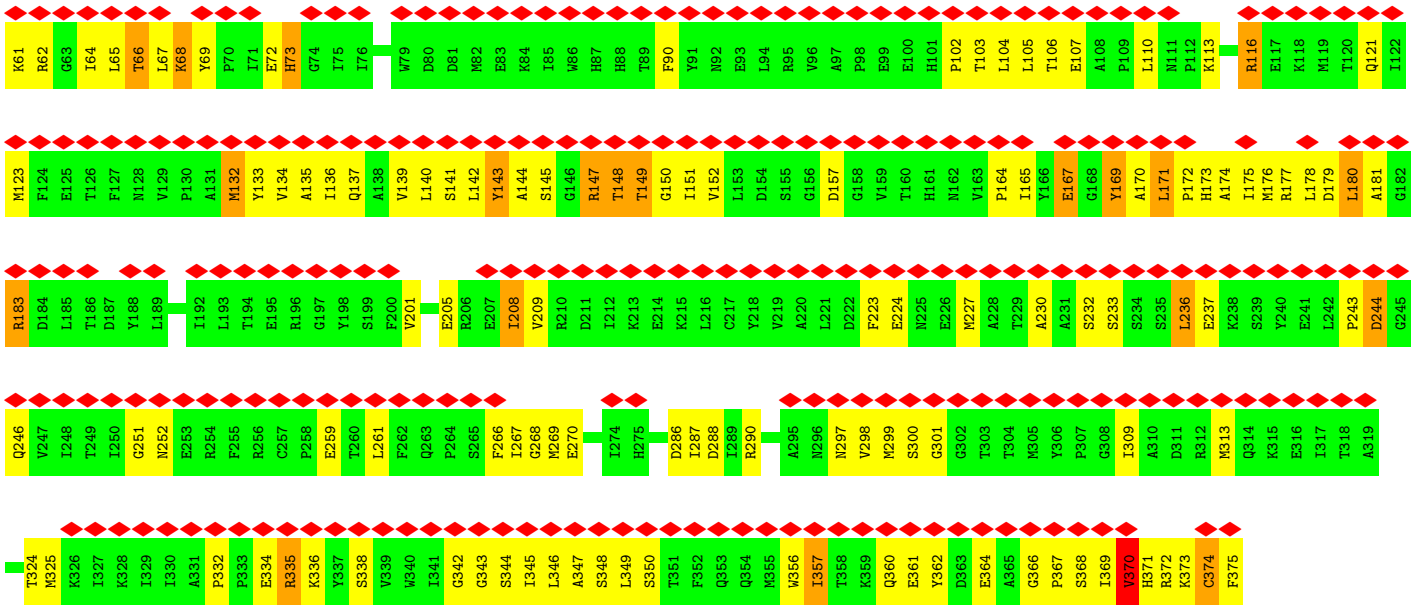
Chain A:



• Molecule 1: Actin, alpha skeletal muscle

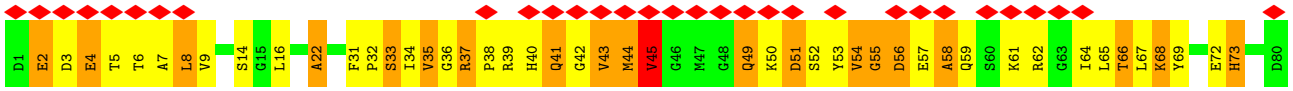
Chain B:

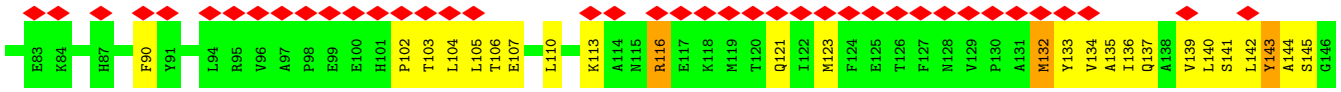


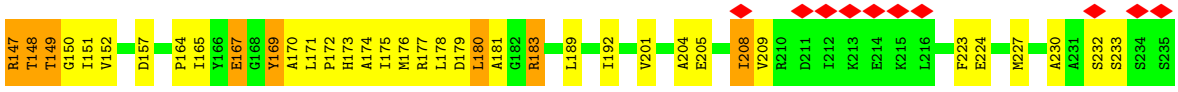


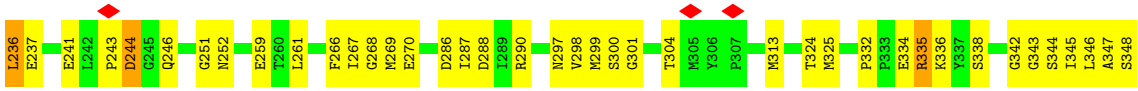
• Molecule 1: Actin, alpha skeletal muscle

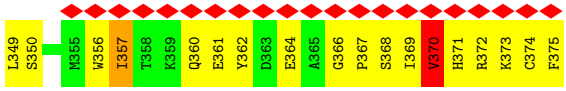
Chain C:





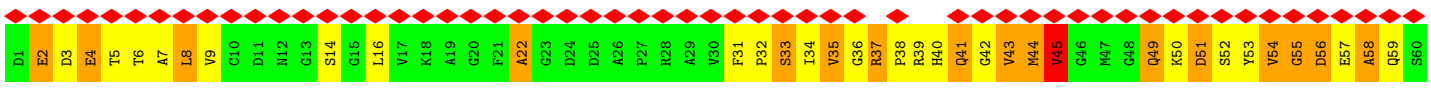


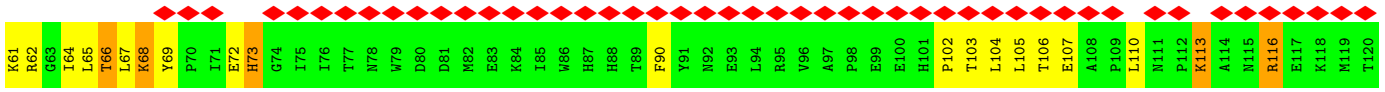




• Molecule 1: Actin, alpha skeletal muscle

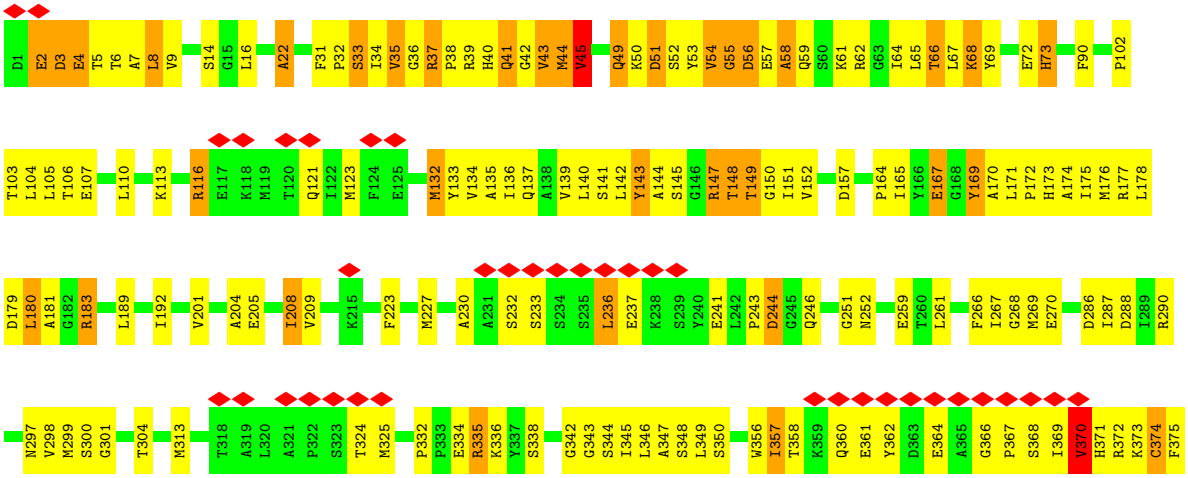
Chain D:





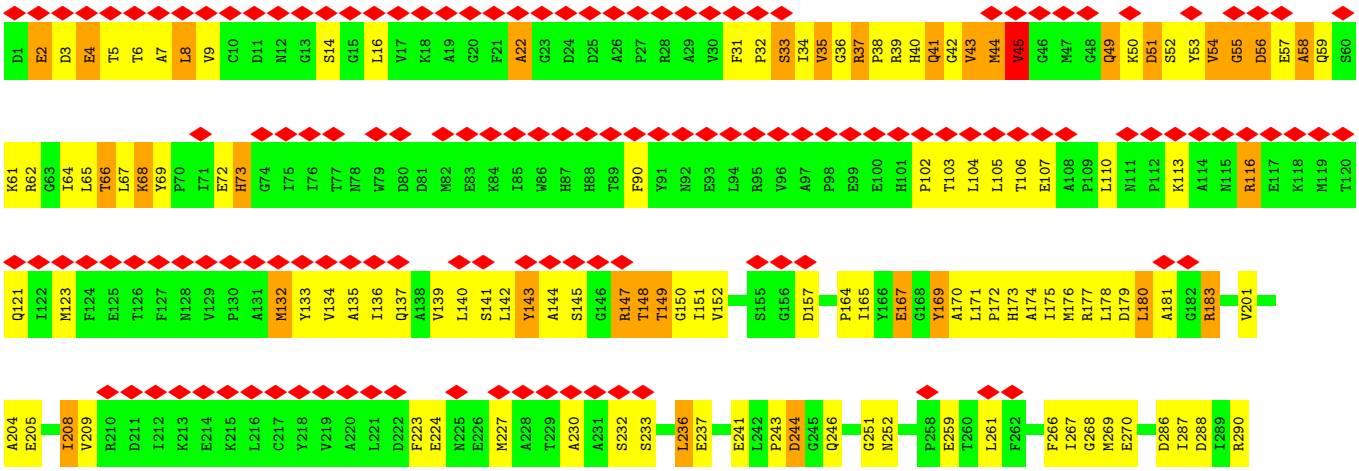
• Molecule 1: Actin, alpha skeletal muscle

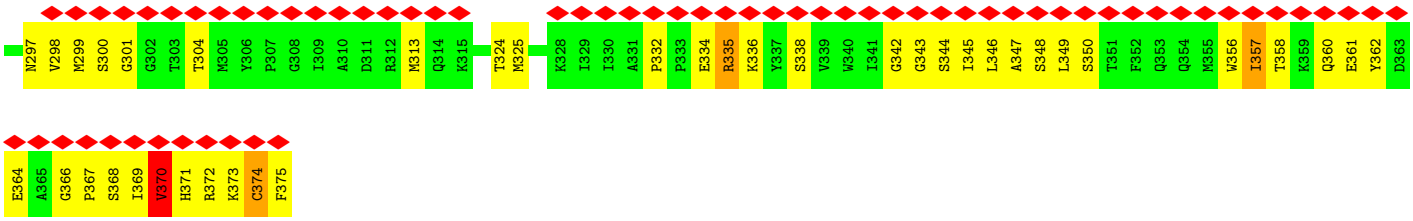
Chain E:



• Molecule 1: Actin, alpha skeletal muscle

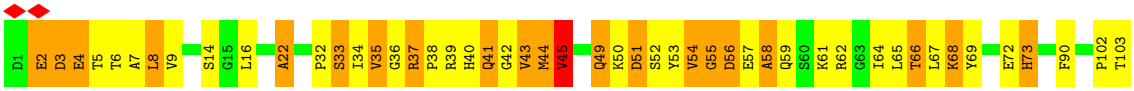
Chain F:

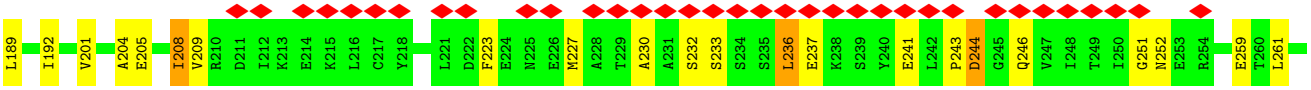


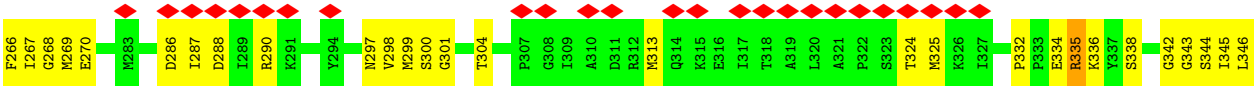


• Molecule 1: Actin, alpha skeletal muscle

Chain G:

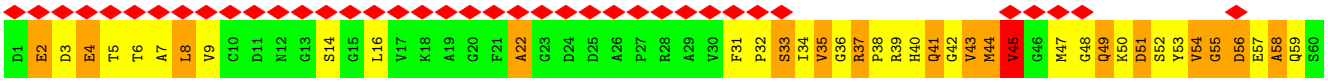


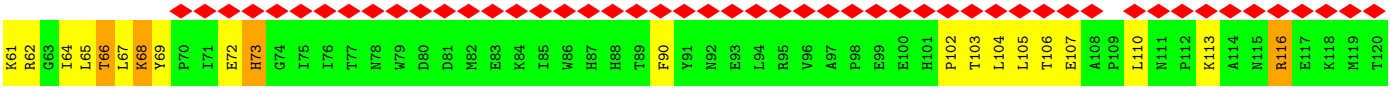


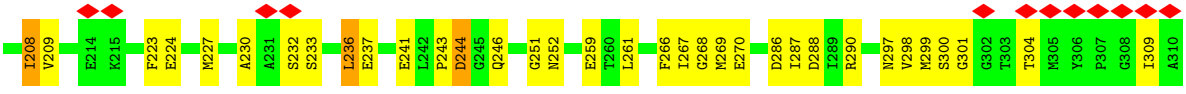


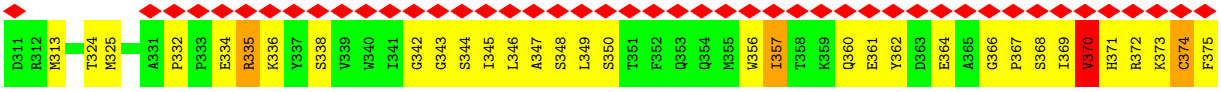
• Molecule 1: Actin, alpha skeletal muscle

Chain H:



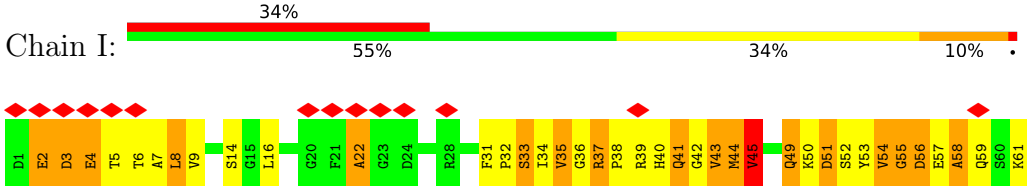






• Molecule 1: Actin, alpha skeletal muscle

Chain I:

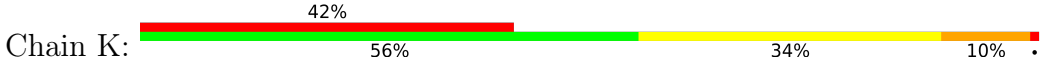


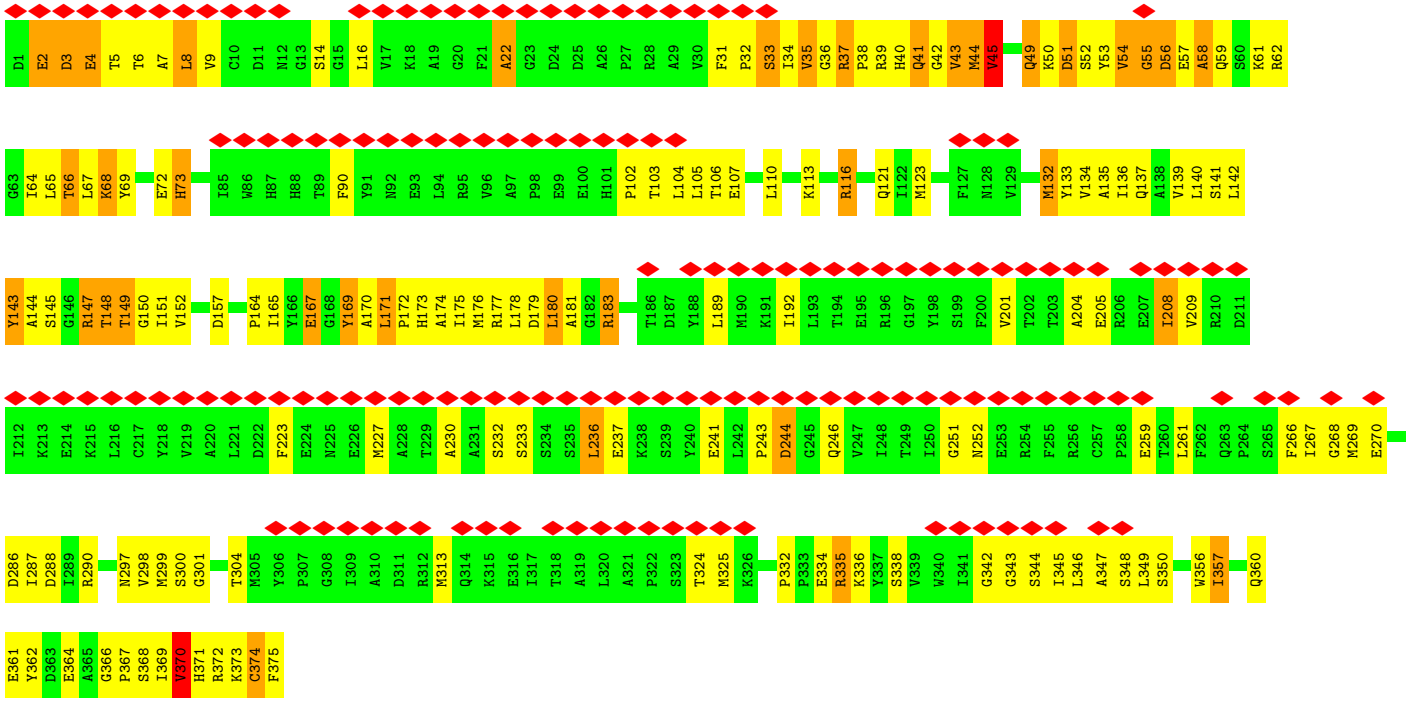
• Molecule 1: Actin, alpha skeletal muscle

Chain J:

• Molecule 1: Actin, alpha skeletal muscle

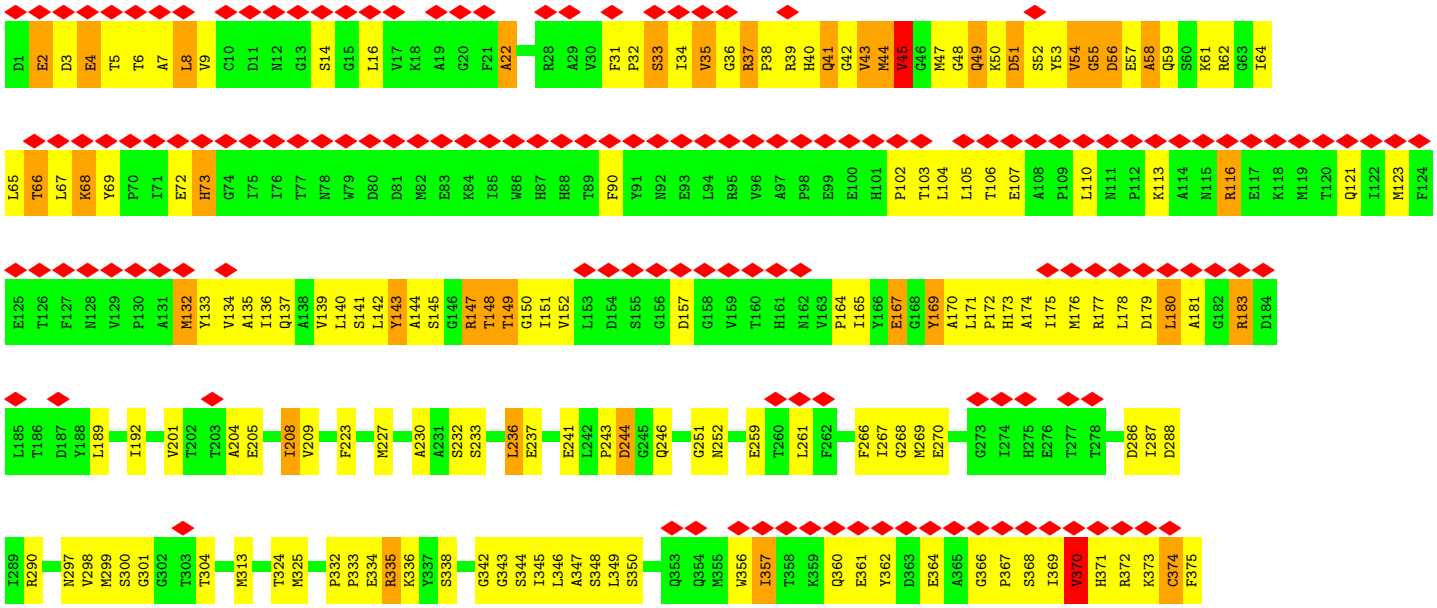
Chain K:





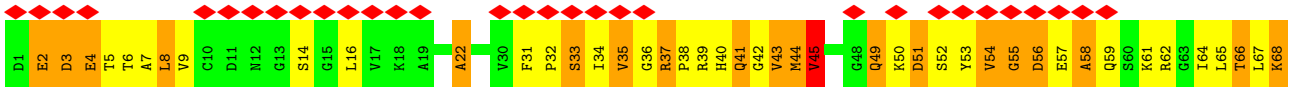
• Molecule 1: Actin, alpha skeletal muscle

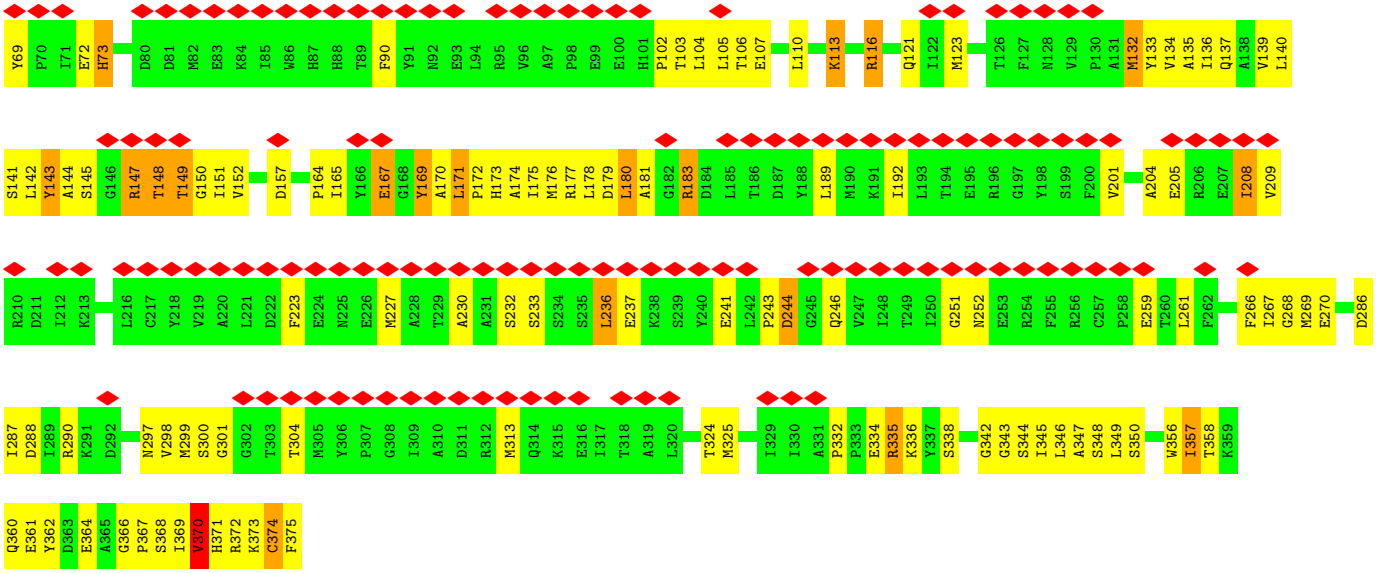
Chain L:



• Molecule 1: Actin, alpha skeletal muscle

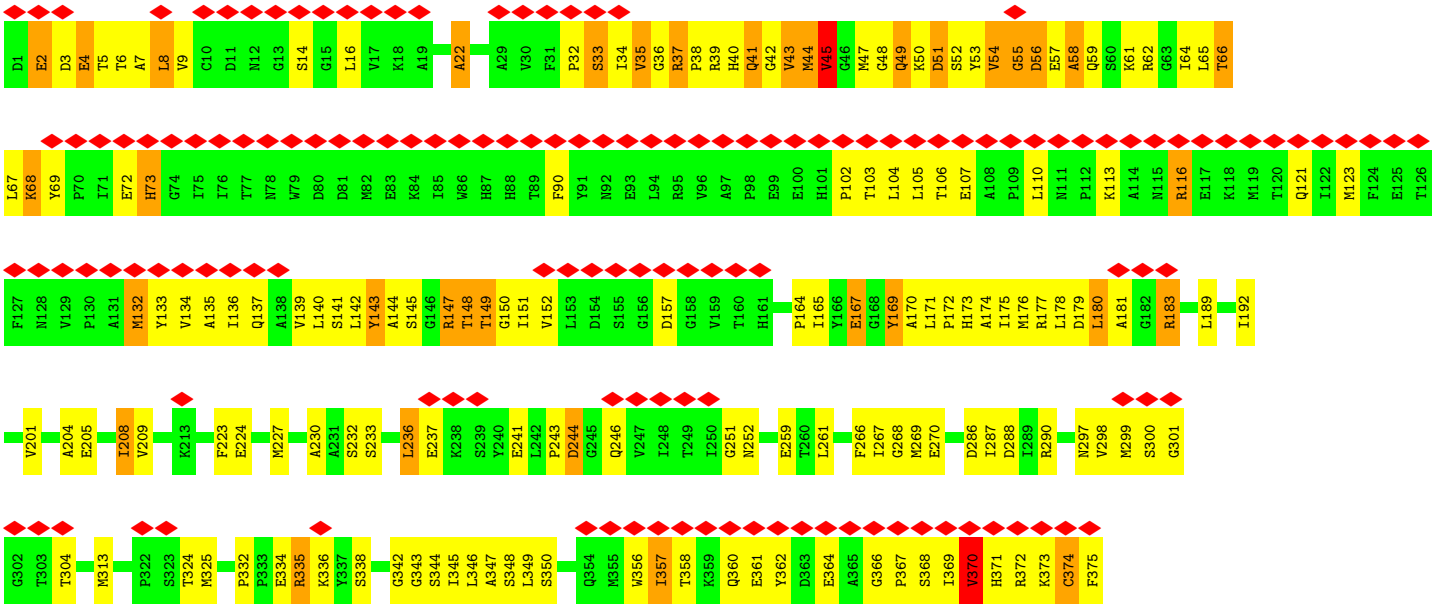
Chain M:





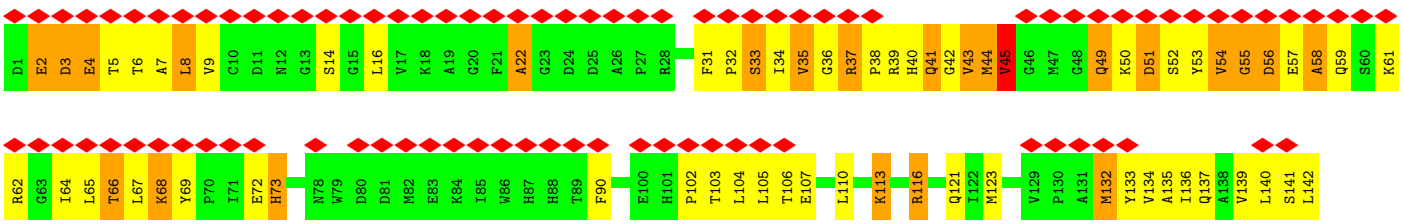
• Molecule 1: Actin, alpha skeletal muscle

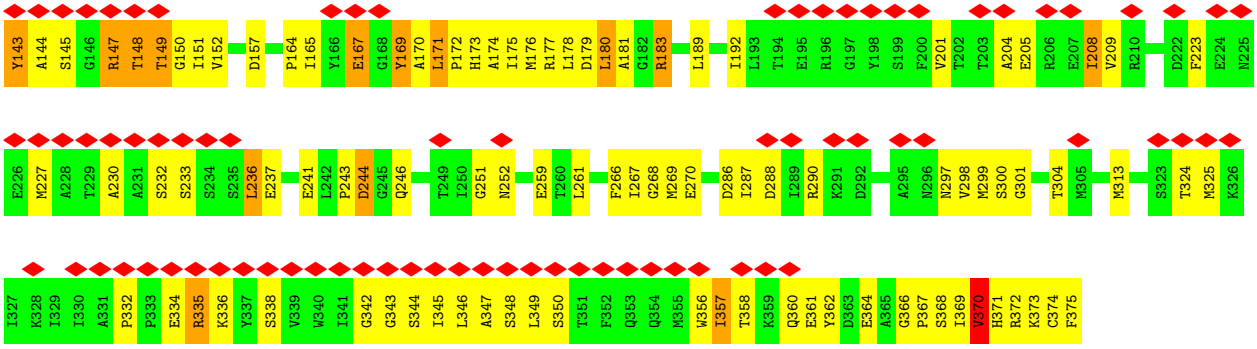
Chain N:



• Molecule 1: Actin, alpha skeletal muscle

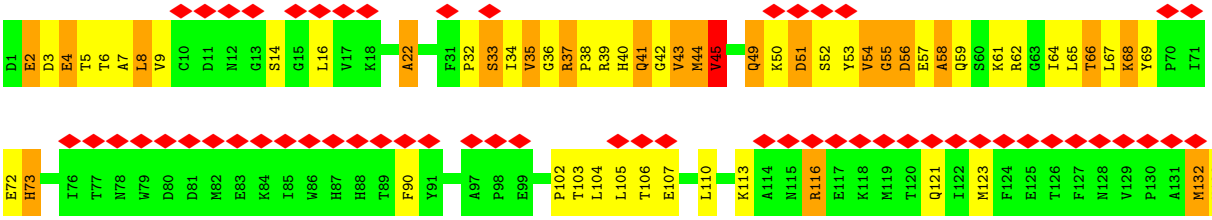
Chain O:





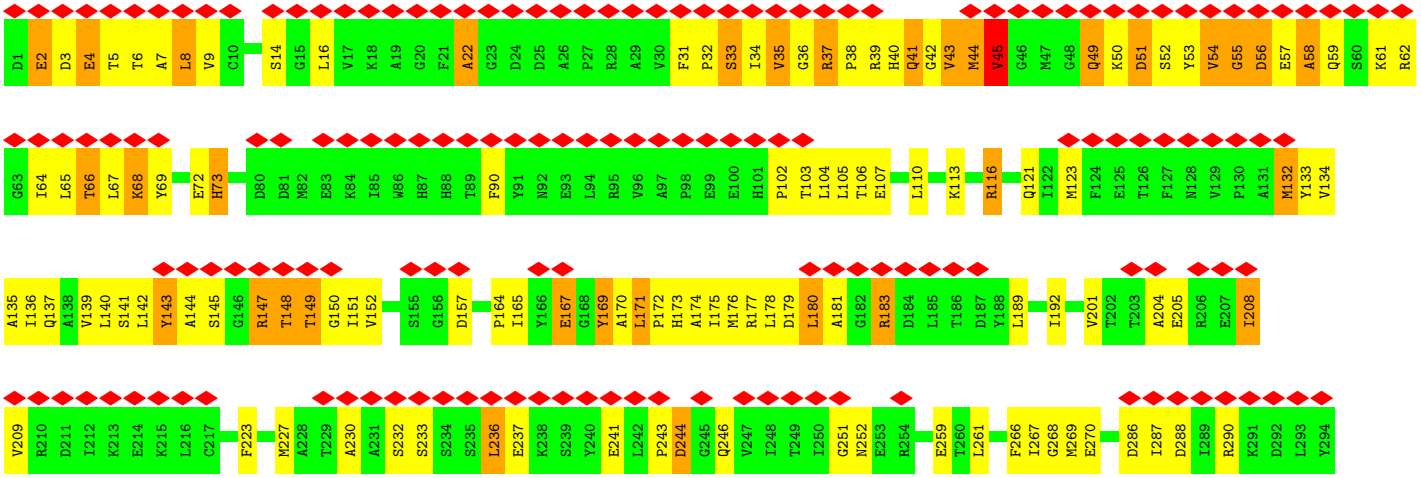
• Molecule 1: Actin, alpha skeletal muscle

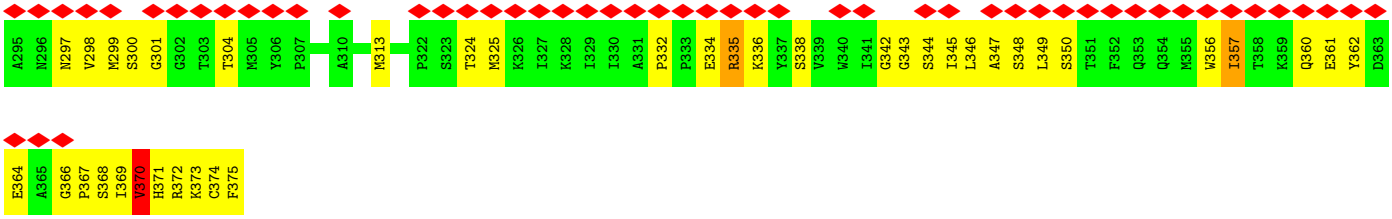
Chain P:



• Molecule 1: Actin, alpha skeletal muscle

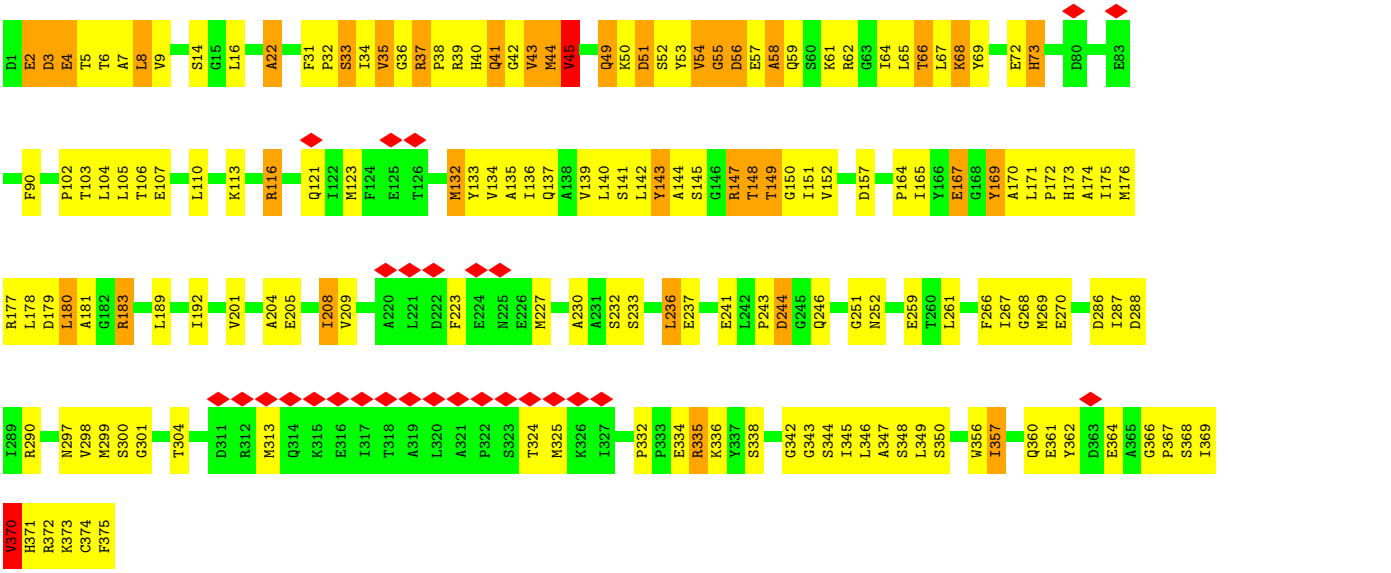
Chain Q:





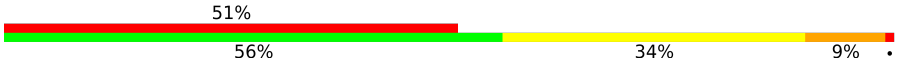
• Molecule 1: Actin, alpha skeletal muscle

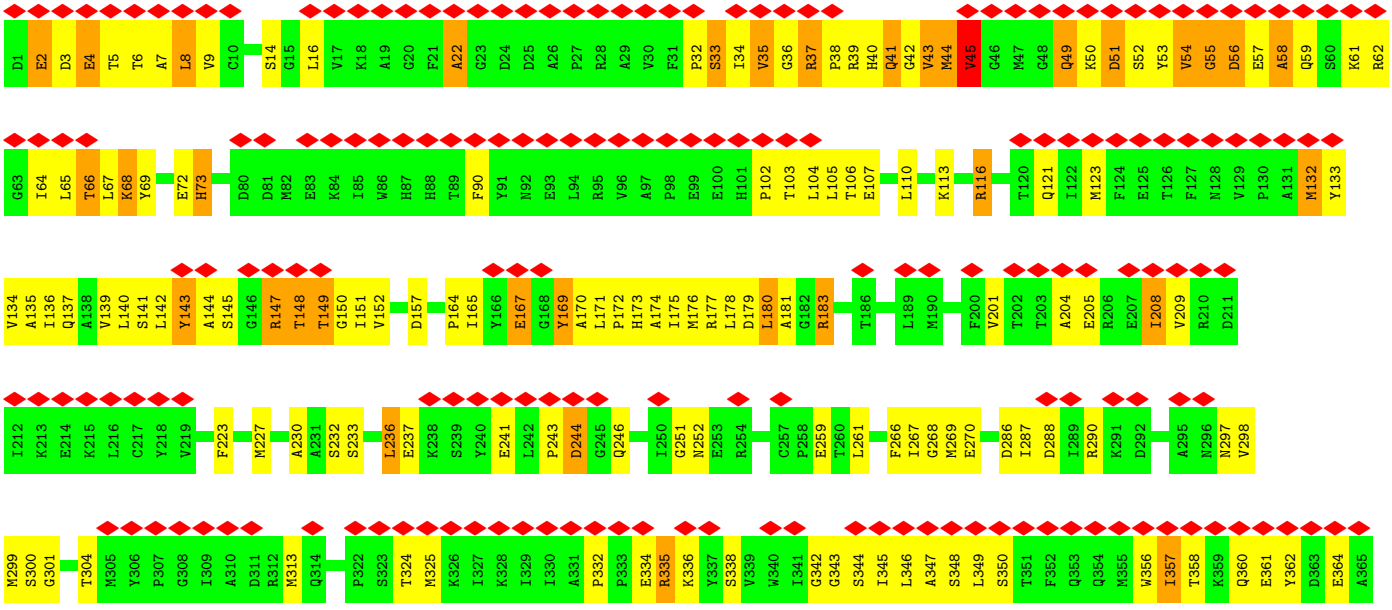
Chain R:



• Molecule 1: Actin, alpha skeletal muscle

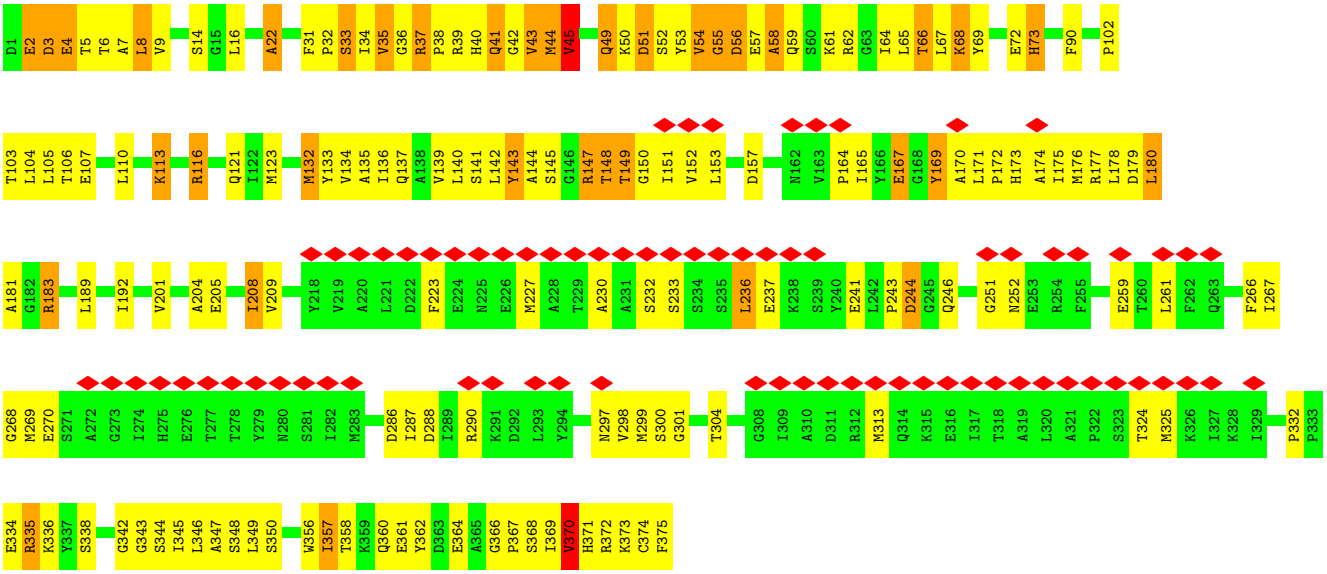
Chain S:





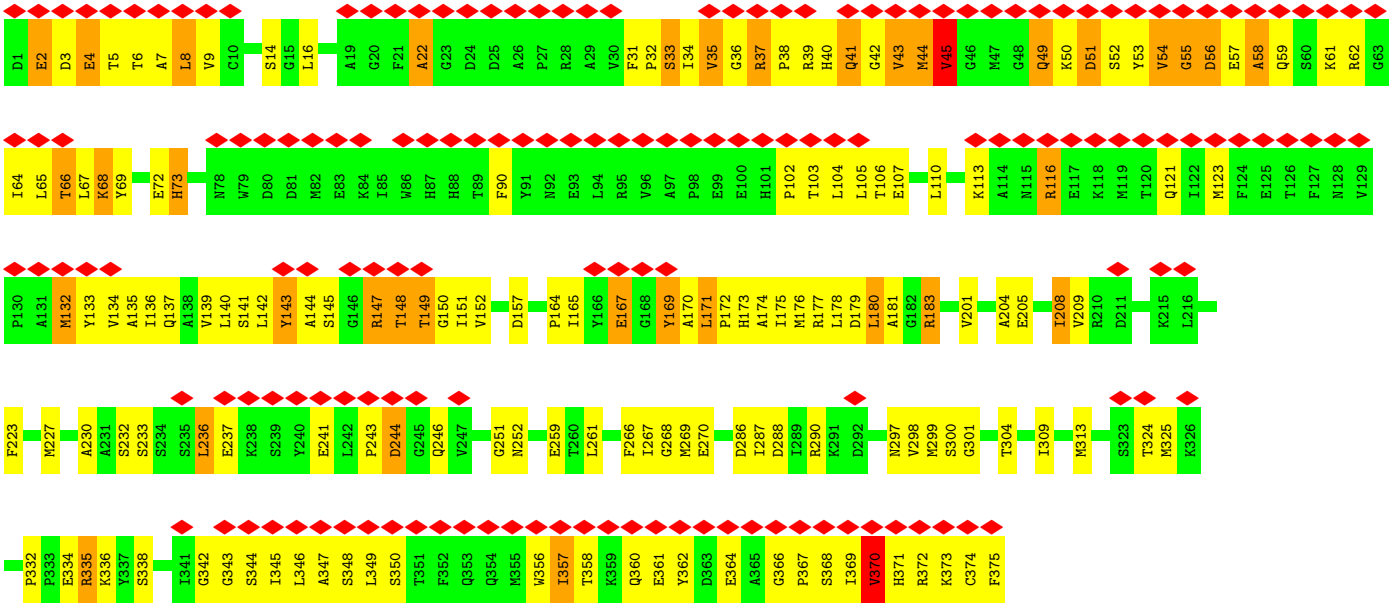
• Molecule 1: Actin, alpha skeletal muscle

Chain T:



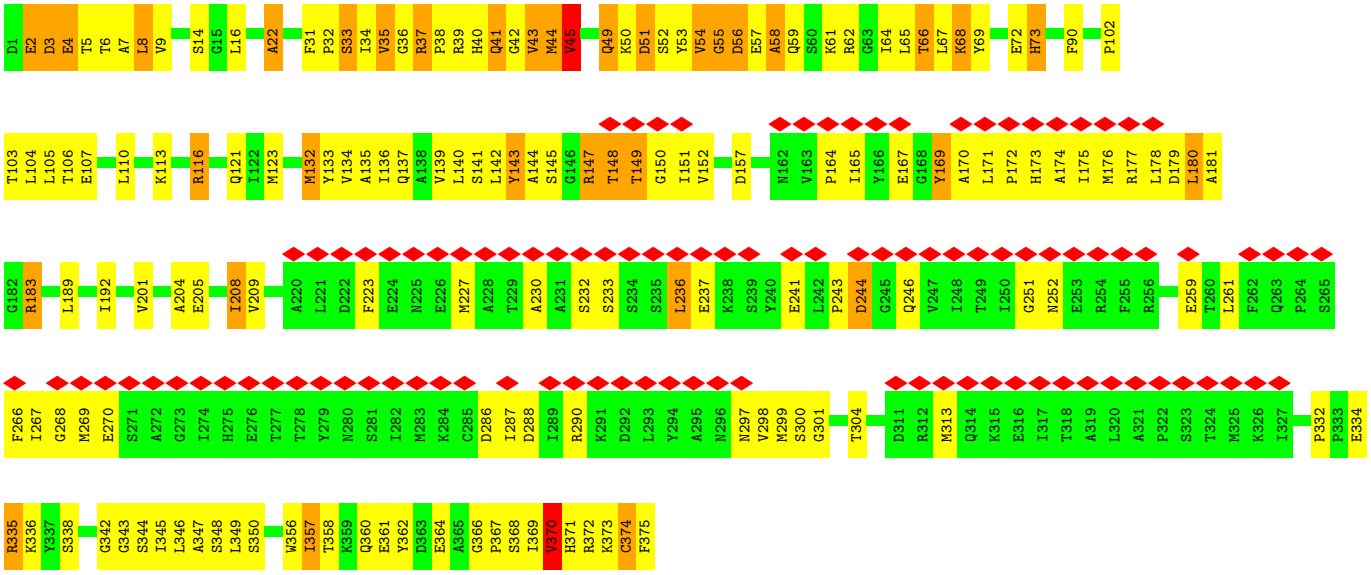
• Molecule 1: Actin, alpha skeletal muscle

Chain U:



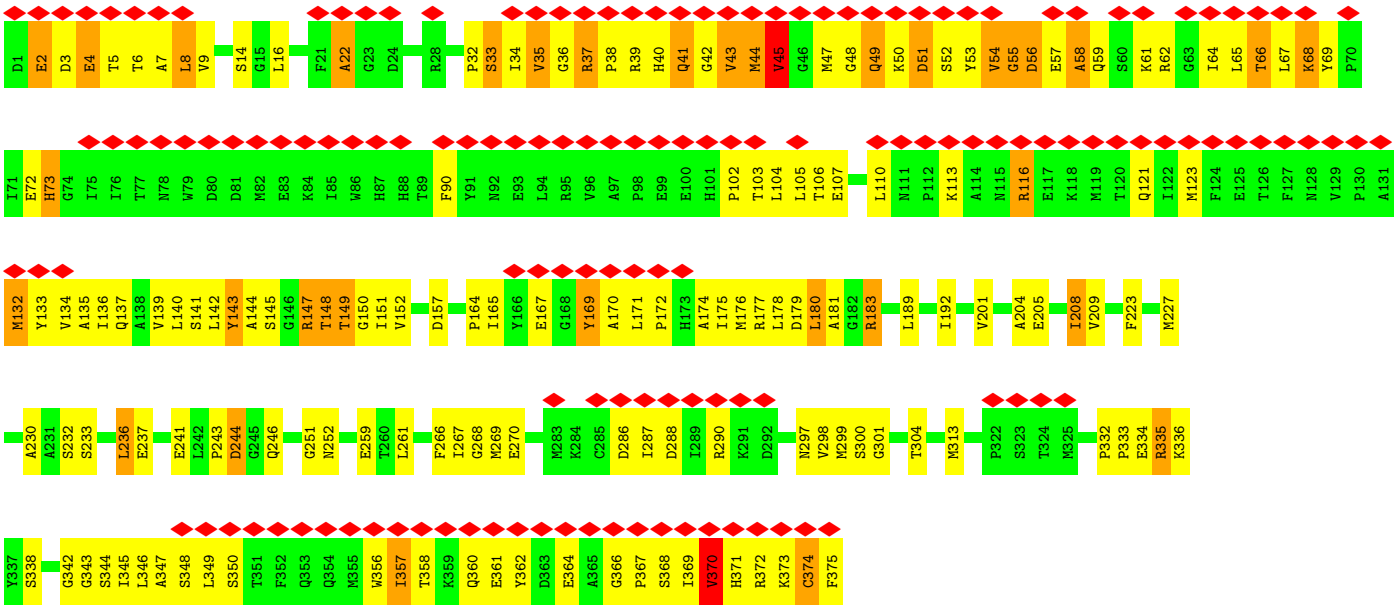
• Molecule 1: Actin, alpha skeletal muscle

Chain V:



• Molecule 1: Actin, alpha skeletal muscle

Chain W:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	1680	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI/PHILIPS CM12	Depositor
Voltage (kV)	120	Depositor
Electron dose ($e^-/Å^2$)	12	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	AGFA SCIENTA FILM	Depositor
Maximum map value	24.301	Depositor
Minimum map value	-12.902	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.924	Depositor
Recommended contour level	2	Depositor
Map size (Å)	633.6, 633.6, 633.6	wwPDB
Map dimensions	96, 96, 96	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	6.6, 6.6, 6.6	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.66	0/2984	1.09	7/4040 (0.2%)
1	B	0.66	0/2984	1.09	7/4040 (0.2%)
1	C	0.66	0/2984	1.09	7/4040 (0.2%)
1	D	0.66	0/2984	1.09	7/4040 (0.2%)
1	E	0.66	0/2984	1.09	7/4040 (0.2%)
1	F	0.66	0/2984	1.09	7/4040 (0.2%)
1	G	0.66	0/2984	1.09	7/4040 (0.2%)
1	H	0.66	0/2984	1.09	7/4040 (0.2%)
1	I	0.66	0/2984	1.09	7/4040 (0.2%)
1	J	0.66	0/2984	1.09	7/4040 (0.2%)
1	K	0.66	0/2984	1.09	7/4040 (0.2%)
1	L	0.66	0/2984	1.09	7/4040 (0.2%)
1	M	0.66	0/2984	1.09	7/4040 (0.2%)
1	N	0.66	0/2984	1.09	7/4040 (0.2%)
1	O	0.66	0/2984	1.09	7/4040 (0.2%)
1	P	0.66	0/2984	1.09	7/4040 (0.2%)
1	Q	0.66	0/2984	1.09	7/4040 (0.2%)
1	R	0.66	0/2984	1.09	7/4040 (0.2%)
1	S	0.66	0/2984	1.09	7/4040 (0.2%)
1	T	0.66	0/2984	1.09	7/4040 (0.2%)
1	U	0.66	0/2984	1.09	7/4040 (0.2%)
1	V	0.66	0/2984	1.09	7/4040 (0.2%)
1	W	0.66	0/2984	1.09	7/4040 (0.2%)
All	All	0.66	0/68632	1.09	161/92920 (0.2%)

There are no bond length outliers.

All (161) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	201	VAL	O-C-N	-5.86	113.32	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	201	VAL	O-C-N	-5.86	113.33	122.70
1	J	201	VAL	O-C-N	-5.85	113.35	122.70
1	I	201	VAL	O-C-N	-5.84	113.35	122.70
1	K	201	VAL	O-C-N	-5.84	113.36	122.70
1	E	201	VAL	O-C-N	-5.84	113.36	122.70
1	R	201	VAL	O-C-N	-5.83	113.37	122.70
1	T	201	VAL	O-C-N	-5.83	113.37	122.70
1	P	201	VAL	O-C-N	-5.83	113.38	122.70
1	W	201	VAL	O-C-N	-5.83	113.38	122.70
1	H	201	VAL	O-C-N	-5.82	113.39	122.70
1	M	201	VAL	O-C-N	-5.82	113.39	122.70
1	B	201	VAL	O-C-N	-5.82	113.39	122.70
1	O	201	VAL	O-C-N	-5.82	113.39	122.70
1	S	201	VAL	O-C-N	-5.82	113.39	122.70
1	L	201	VAL	O-C-N	-5.82	113.40	122.70
1	G	201	VAL	O-C-N	-5.81	113.40	122.70
1	V	201	VAL	O-C-N	-5.81	113.40	122.70
1	D	201	VAL	O-C-N	-5.80	113.41	122.70
1	U	201	VAL	O-C-N	-5.79	113.44	122.70
1	F	201	VAL	O-C-N	-5.78	113.45	122.70
1	A	201	VAL	O-C-N	-5.77	113.46	122.70
1	C	201	VAL	O-C-N	-5.77	113.47	122.70
1	O	169	TYR	CB-CG-CD2	-5.72	117.57	121.00
1	V	169	TYR	CB-CG-CD2	-5.71	117.57	121.00
1	U	169	TYR	CB-CG-CD2	-5.69	117.59	121.00
1	G	169	TYR	CB-CG-CD2	-5.66	117.61	121.00
1	W	169	TYR	CB-CG-CD2	-5.66	117.61	121.00
1	K	169	TYR	CB-CG-CD2	-5.65	117.61	121.00
1	N	169	TYR	CB-CG-CD2	-5.65	117.61	121.00
1	M	169	TYR	CB-CG-CD2	-5.65	117.61	121.00
1	I	201	VAL	CA-C-N	5.63	129.59	117.20
1	J	201	VAL	CA-C-N	5.63	129.59	117.20
1	D	201	VAL	CA-C-N	5.63	129.58	117.20
1	Q	169	TYR	CB-CG-CD2	-5.63	117.62	121.00
1	A	201	VAL	CA-C-N	5.62	129.57	117.20
1	M	201	VAL	CA-C-N	5.62	129.57	117.20
1	P	169	TYR	CB-CG-CD2	-5.62	117.63	121.00
1	E	201	VAL	CA-C-N	5.62	129.57	117.20
1	E	116	ARG	NE-CZ-NH2	-5.62	117.49	120.30
1	G	201	VAL	CA-C-N	5.62	129.56	117.20
1	N	201	VAL	CA-C-N	5.62	129.56	117.20
1	B	169	TYR	CB-CG-CD2	-5.62	117.63	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	201	VAL	CA-C-N	5.62	129.56	117.20
1	W	201	VAL	CA-C-N	5.62	129.55	117.20
1	Q	201	VAL	CA-C-N	5.61	129.55	117.20
1	I	169	TYR	CB-CG-CD2	-5.61	117.63	121.00
1	L	201	VAL	CA-C-N	5.61	129.54	117.20
1	O	201	VAL	CA-C-N	5.61	129.54	117.20
1	P	201	VAL	CA-C-N	5.61	129.54	117.20
1	S	201	VAL	CA-C-N	5.61	129.54	117.20
1	B	201	VAL	CA-C-N	5.61	129.54	117.20
1	D	169	TYR	CB-CG-CD2	-5.61	117.64	121.00
1	S	169	TYR	CB-CG-CD2	-5.61	117.64	121.00
1	T	201	VAL	CA-C-N	5.61	129.53	117.20
1	R	201	VAL	CA-C-N	5.60	129.52	117.20
1	F	201	VAL	CA-C-N	5.60	129.52	117.20
1	J	169	TYR	CB-CG-CD2	-5.60	117.64	121.00
1	V	201	VAL	CA-C-N	5.60	129.52	117.20
1	H	201	VAL	CA-C-N	5.60	129.52	117.20
1	C	201	VAL	CA-C-N	5.60	129.51	117.20
1	H	169	TYR	CB-CG-CD2	-5.59	117.65	121.00
1	U	201	VAL	CA-C-N	5.58	129.49	117.20
1	R	169	TYR	CB-CG-CD2	-5.58	117.66	121.00
1	L	169	TYR	CB-CG-CD2	-5.57	117.66	121.00
1	F	169	TYR	CB-CG-CD2	-5.57	117.66	121.00
1	T	169	TYR	CB-CG-CD2	-5.57	117.66	121.00
1	I	116	ARG	NE-CZ-NH2	-5.56	117.52	120.30
1	W	116	ARG	NE-CZ-NH2	-5.56	117.52	120.30
1	U	116	ARG	NE-CZ-NH2	-5.56	117.52	120.30
1	O	116	ARG	NE-CZ-NH2	-5.55	117.53	120.30
1	V	116	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	C	169	TYR	CB-CG-CD2	-5.54	117.68	121.00
1	R	116	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	E	169	TYR	CB-CG-CD2	-5.54	117.68	121.00
1	M	116	ARG	NE-CZ-NH2	-5.53	117.53	120.30
1	T	116	ARG	NE-CZ-NH2	-5.52	117.54	120.30
1	G	116	ARG	NE-CZ-NH2	-5.52	117.54	120.30
1	N	116	ARG	NE-CZ-NH2	-5.52	117.54	120.30
1	B	116	ARG	NE-CZ-NH2	-5.51	117.54	120.30
1	J	116	ARG	NE-CZ-NH2	-5.51	117.54	120.30
1	A	116	ARG	NE-CZ-NH2	-5.51	117.55	120.30
1	K	116	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	D	116	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	A	169	TYR	CB-CG-CD2	-5.50	117.70	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	116	ARG	NE-CZ-NH2	-5.49	117.55	120.30
1	C	116	ARG	NE-CZ-NH2	-5.48	117.56	120.30
1	F	116	ARG	NE-CZ-NH2	-5.47	117.56	120.30
1	W	205	GLU	CG-CD-OE2	-5.46	107.38	118.30
1	C	205	GLU	CG-CD-OE2	-5.45	107.41	118.30
1	N	205	GLU	CG-CD-OE2	-5.45	107.41	118.30
1	K	205	GLU	CG-CD-OE2	-5.44	107.41	118.30
1	R	205	GLU	CG-CD-OE2	-5.44	107.41	118.30
1	S	116	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	H	205	GLU	CG-CD-OE2	-5.44	107.42	118.30
1	G	205	GLU	CG-CD-OE2	-5.44	107.42	118.30
1	T	205	GLU	CG-CD-OE2	-5.44	107.43	118.30
1	I	205	GLU	CG-CD-OE2	-5.43	107.43	118.30
1	J	205	GLU	CG-CD-OE2	-5.43	107.43	118.30
1	L	205	GLU	CG-CD-OE2	-5.43	107.44	118.30
1	Q	116	ARG	NE-CZ-NH2	-5.43	117.58	120.30
1	B	205	GLU	CG-CD-OE2	-5.43	107.44	118.30
1	O	205	GLU	CG-CD-OE2	-5.43	107.44	118.30
1	H	116	ARG	NE-CZ-NH2	-5.43	117.59	120.30
1	P	205	GLU	CG-CD-OE2	-5.43	107.44	118.30
1	S	205	GLU	CG-CD-OE2	-5.43	107.45	118.30
1	V	205	GLU	CG-CD-OE2	-5.42	107.45	118.30
1	Q	205	GLU	CG-CD-OE2	-5.42	107.45	118.30
1	M	205	GLU	CG-CD-OE2	-5.42	107.46	118.30
1	F	205	GLU	CG-CD-OE2	-5.42	107.46	118.30
1	E	205	GLU	CG-CD-OE2	-5.42	107.47	118.30
1	A	205	GLU	CG-CD-OE2	-5.41	107.48	118.30
1	U	205	GLU	CG-CD-OE2	-5.41	107.48	118.30
1	P	116	ARG	NE-CZ-NH2	-5.41	117.60	120.30
1	U	313	MET	CG-SD-CE	5.40	108.84	100.20
1	H	313	MET	CG-SD-CE	5.40	108.84	100.20
1	L	313	MET	CG-SD-CE	5.40	108.84	100.20
1	D	205	GLU	CG-CD-OE2	-5.40	107.50	118.30
1	A	313	MET	CG-SD-CE	5.39	108.83	100.20
1	J	313	MET	CG-SD-CE	5.39	108.83	100.20
1	P	313	MET	CG-SD-CE	5.39	108.83	100.20
1	O	313	MET	CG-SD-CE	5.39	108.83	100.20
1	I	313	MET	CG-SD-CE	5.39	108.82	100.20
1	T	313	MET	CG-SD-CE	5.39	108.82	100.20
1	S	313	MET	CG-SD-CE	5.39	108.82	100.20
1	B	313	MET	CG-SD-CE	5.39	108.82	100.20
1	D	313	MET	CG-SD-CE	5.39	108.82	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	313	MET	CG-SD-CE	5.38	108.81	100.20
1	N	313	MET	CG-SD-CE	5.38	108.81	100.20
1	V	313	MET	CG-SD-CE	5.38	108.81	100.20
1	Q	313	MET	CG-SD-CE	5.38	108.81	100.20
1	E	313	MET	CG-SD-CE	5.38	108.81	100.20
1	R	313	MET	CG-SD-CE	5.38	108.81	100.20
1	W	313	MET	CG-SD-CE	5.38	108.81	100.20
1	M	313	MET	CG-SD-CE	5.38	108.80	100.20
1	G	313	MET	CG-SD-CE	5.37	108.79	100.20
1	K	313	MET	CG-SD-CE	5.36	108.78	100.20
1	C	313	MET	CG-SD-CE	5.36	108.77	100.20
1	J	22	ALA	C-N-CA	-5.15	111.48	122.30
1	Q	22	ALA	C-N-CA	-5.15	111.49	122.30
1	M	22	ALA	C-N-CA	-5.15	111.49	122.30
1	C	22	ALA	C-N-CA	-5.15	111.49	122.30
1	A	22	ALA	C-N-CA	-5.14	111.50	122.30
1	W	22	ALA	C-N-CA	-5.14	111.51	122.30
1	E	22	ALA	C-N-CA	-5.14	111.51	122.30
1	F	22	ALA	C-N-CA	-5.14	111.51	122.30
1	P	22	ALA	C-N-CA	-5.14	111.51	122.30
1	I	22	ALA	C-N-CA	-5.13	111.52	122.30
1	H	22	ALA	C-N-CA	-5.13	111.53	122.30
1	K	22	ALA	C-N-CA	-5.13	111.53	122.30
1	B	22	ALA	C-N-CA	-5.13	111.53	122.30
1	V	22	ALA	C-N-CA	-5.13	111.53	122.30
1	D	22	ALA	C-N-CA	-5.12	111.54	122.30
1	N	22	ALA	C-N-CA	-5.12	111.54	122.30
1	S	22	ALA	C-N-CA	-5.12	111.54	122.30
1	G	22	ALA	C-N-CA	-5.12	111.54	122.30
1	L	22	ALA	C-N-CA	-5.12	111.54	122.30
1	O	22	ALA	C-N-CA	-5.12	111.55	122.30
1	U	22	ALA	C-N-CA	-5.12	111.55	122.30
1	T	22	ALA	C-N-CA	-5.12	111.55	122.30
1	R	22	ALA	C-N-CA	-5.12	111.56	122.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen

atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2934	0	2895	334	0
1	B	2934	0	2895	336	0
1	C	2934	0	2895	374	0
1	D	2934	0	2895	378	0
1	E	2934	0	2895	380	0
1	F	2934	0	2895	377	0
1	G	2934	0	2895	375	0
1	H	2934	0	2895	375	0
1	I	2934	0	2895	369	0
1	J	2934	0	2895	377	0
1	K	2934	0	2895	372	0
1	L	2934	0	2895	369	0
1	M	2934	0	2895	370	0
1	N	2934	0	2895	377	0
1	O	2934	0	2895	376	0
1	P	2934	0	2895	372	0
1	Q	2934	0	2895	375	0
1	R	2934	0	2895	370	0
1	S	2934	0	2895	371	0
1	T	2934	0	2895	374	0
1	U	2934	0	2895	375	0
1	V	2934	0	2895	337	0
1	W	2934	0	2895	333	0
2	A	27	0	12	4	0
2	B	27	0	12	5	0
2	C	27	0	12	4	0
2	D	27	0	12	5	0
2	E	27	0	12	4	0
2	F	27	0	12	4	0
2	G	27	0	12	4	0
2	H	27	0	12	4	0
2	I	27	0	12	4	0
2	J	27	0	12	4	0
2	K	27	0	12	5	0
2	L	27	0	12	4	0
2	M	27	0	12	4	0
2	N	27	0	12	4	0
2	O	27	0	12	4	0
2	P	27	0	12	4	0
2	Q	27	0	12	4	0
2	R	27	0	12	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	S	27	0	12	4	0
2	T	27	0	12	4	0
2	U	27	0	12	4	0
2	V	27	0	12	4	0
2	W	27	0	12	4	0
All	All	68103	0	66861	7549	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 56.

All (7549) 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:R:59:GLN:O	1:R:62:ARG:HG3	1.43	1.19
1:T:59:GLN:O	1:T:62:ARG:HG3	1.43	1.19
1:W:59:GLN:O	1:W:62:ARG:HG3	1.43	1.19
1:A:59:GLN:O	1:A:62:ARG:HG3	1.43	1.19
1:H:59:GLN:O	1:H:62:ARG:HG3	1.43	1.18
1:K:59:GLN:O	1:K:62:ARG:HG3	1.43	1.18
1:F:59:GLN:O	1:F:62:ARG:HG3	1.43	1.18
1:C:59:GLN:O	1:C:62:ARG:HG3	1.43	1.18
1:L:59:GLN:O	1:L:62:ARG:HG3	1.43	1.18
1:M:59:GLN:O	1:M:62:ARG:HG3	1.43	1.18
1:P:59:GLN:O	1:P:62:ARG:HG3	1.43	1.18
1:I:59:GLN:O	1:I:62:ARG:HG3	1.43	1.18
1:J:59:GLN:O	1:J:62:ARG:HG3	1.43	1.18
1:V:59:GLN:O	1:V:62:ARG:HG3	1.43	1.18
1:Q:290:ARG:HD2	1:S:244:ASP:HB2	1.21	1.17
1:M:43:VAL:HG13	1:M:44:MET:N	1.54	1.17
1:O:290:ARG:HD2	1:Q:244:ASP:HB2	1.21	1.17
1:D:59:GLN:O	1:D:62:ARG:HG3	1.43	1.17
1:O:59:GLN:O	1:O:62:ARG:HG3	1.43	1.17
1:S:290:ARG:HD2	1:U:244:ASP:HB2	1.21	1.17
1:U:59:GLN:O	1:U:62:ARG:HG3	1.43	1.16
1:N:59:GLN:O	1:N:62:ARG:HG3	1.43	1.16
1:E:59:GLN:O	1:E:62:ARG:HG3	1.43	1.16
1:G:59:GLN:O	1:G:62:ARG:HG3	1.43	1.16
1:J:290:ARG:HD2	1:L:244:ASP:HB2	1.21	1.16
1:K:43:VAL:HG13	1:K:44:MET:N	1.54	1.16
1:L:290:ARG:HD2	1:N:244:ASP:HB2	1.21	1.16
1:B:59:GLN:O	1:B:62:ARG:HG3	1.43	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:59:GLN:O	1:Q:62:ARG:HG3	1.43	1.15
1:U:290:ARG:HD2	1:W:244:ASP:HB2	1.21	1.15
1:M:290:ARG:HD2	1:O:244:ASP:HB2	1.21	1.15
1:S:59:GLN:O	1:S:62:ARG:HG3	1.43	1.15
1:K:361:GLU:HB3	1:K:369:ILE:HD13	1.19	1.15
1:H:290:ARG:HD2	1:J:244:ASP:HB2	1.21	1.15
1:D:361:GLU:HB3	1:D:369:ILE:HD13	1.20	1.15
1:D:43:VAL:HG13	1:D:44:MET:N	1.54	1.14
1:I:43:VAL:HG13	1:I:44:MET:N	1.54	1.14
1:O:361:GLU:HB3	1:O:369:ILE:HD13	1.19	1.14
1:N:290:ARG:HD2	1:P:244:ASP:HB2	1.21	1.14
1:Q:361:GLU:HB3	1:Q:369:ILE:HD13	1.19	1.14
1:L:43:VAL:HG13	1:L:44:MET:N	1.54	1.14
1:F:290:ARG:HD2	1:H:244:ASP:HB2	1.22	1.13
1:R:34:ILE:HB	1:R:54:VAL:HG11	1.30	1.13
1:F:357:ILE:HG12	1:F:370:VAL:HG23	1.13	1.13
1:N:43:VAL:HG13	1:N:44:MET:N	1.54	1.13
1:U:357:ILE:HG12	1:U:370:VAL:HG23	1.13	1.13
1:J:43:VAL:HG13	1:J:44:MET:N	1.54	1.13
1:E:34:ILE:HB	1:E:54:VAL:HG11	1.30	1.13
1:K:357:ILE:HG12	1:K:370:VAL:HG23	1.13	1.13
1:O:357:ILE:HG12	1:O:370:VAL:HG23	1.13	1.13
1:A:34:ILE:HB	1:A:54:VAL:HG11	1.30	1.13
1:G:34:ILE:HB	1:G:54:VAL:HG11	1.30	1.13
1:J:357:ILE:HG12	1:J:370:VAL:HG23	1.13	1.12
1:N:34:ILE:HB	1:N:54:VAL:HG11	1.30	1.13
1:Q:357:ILE:HG12	1:Q:370:VAL:HG23	1.13	1.12
1:T:34:ILE:HB	1:T:54:VAL:HG11	1.30	1.12
1:K:290:ARG:HD2	1:M:244:ASP:HB2	1.21	1.12
1:L:34:ILE:HB	1:L:54:VAL:HG11	1.29	1.12
1:P:43:VAL:HG13	1:P:44:MET:N	1.54	1.12
1:V:357:ILE:HG12	1:V:370:VAL:HG23	1.13	1.12
1:V:361:GLU:HB3	1:V:369:ILE:HD13	1.19	1.12
1:P:290:ARG:HD2	1:R:244:ASP:HB2	1.22	1.12
1:A:43:VAL:HG13	1:A:44:MET:N	1.54	1.12
1:A:361:GLU:HB3	1:A:369:ILE:HD13	1.19	1.12
1:B:43:VAL:HG13	1:B:44:MET:N	1.54	1.12
1:B:357:ILE:HG12	1:B:370:VAL:HG23	1.13	1.12
1:D:290:ARG:HD2	1:F:244:ASP:HB2	1.21	1.12
1:D:357:ILE:HG12	1:D:370:VAL:HG23	1.13	1.12
1:H:357:ILE:HG12	1:H:370:VAL:HG23	1.13	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:361:GLU:HB3	1:M:369:ILE:HD13	1.19	1.12
1:P:34:ILE:HB	1:P:54:VAL:HG11	1.30	1.12
1:H:43:VAL:HG13	1:H:44:MET:N	1.54	1.12
1:I:357:ILE:HG12	1:I:370:VAL:HG23	1.13	1.12
1:M:357:ILE:HG12	1:M:370:VAL:HG23	1.13	1.12
1:S:357:ILE:HG12	1:S:370:VAL:HG23	1.13	1.12
1:U:361:GLU:HB3	1:U:369:ILE:HD13	1.19	1.12
1:G:357:ILE:HG12	1:G:370:VAL:HG23	1.13	1.11
1:P:361:GLU:HB3	1:P:369:ILE:HD13	1.19	1.11
1:W:43:VAL:HG13	1:W:44:MET:N	1.54	1.11
1:W:357:ILE:HG12	1:W:370:VAL:HG23	1.13	1.11
1:C:34:ILE:HB	1:C:54:VAL:HG11	1.30	1.11
1:F:361:GLU:HB3	1:F:369:ILE:HD13	1.19	1.11
1:T:357:ILE:HG12	1:T:370:VAL:HG23	1.13	1.11
1:L:357:ILE:HG12	1:L:370:VAL:HG23	1.13	1.11
1:G:361:GLU:HB3	1:G:369:ILE:HD13	1.19	1.11
1:N:357:ILE:HG12	1:N:370:VAL:HG23	1.13	1.11
1:N:361:GLU:HB3	1:N:369:ILE:HD13	1.19	1.11
1:C:43:VAL:HG13	1:C:44:MET:N	1.54	1.10
1:C:357:ILE:HG12	1:C:370:VAL:HG23	1.13	1.10
1:R:43:VAL:HG13	1:R:44:MET:N	1.54	1.10
1:R:357:ILE:HG12	1:R:370:VAL:HG23	1.13	1.10
1:D:180:LEU:HD21	1:D:261:LEU:HD23	1.34	1.10
1:I:34:ILE:HB	1:I:54:VAL:HG11	1.29	1.10
1:L:361:GLU:HB3	1:L:369:ILE:HD13	1.19	1.10
1:Q:180:LEU:HD21	1:Q:261:LEU:HD23	1.34	1.10
1:R:290:ARG:HD2	1:T:244:ASP:HB2	1.21	1.10
1:U:43:VAL:HG13	1:U:44:MET:N	1.54	1.10
1:B:361:GLU:HB3	1:B:369:ILE:HD13	1.19	1.10
1:E:180:LEU:HD21	1:E:261:LEU:HD23	1.34	1.10
1:I:180:LEU:HD21	1:I:261:LEU:HD23	1.34	1.10
1:I:290:ARG:HD2	1:K:244:ASP:HB2	1.21	1.10
1:V:180:LEU:HD21	1:V:261:LEU:HD23	1.34	1.10
1:A:290:ARG:HD2	1:C:244:ASP:HB2	1.22	1.10
1:B:290:ARG:HD2	1:D:244:ASP:HB2	1.22	1.10
1:C:361:GLU:HB3	1:C:369:ILE:HD13	1.19	1.10
1:E:357:ILE:HG12	1:E:370:VAL:HG23	1.13	1.10
1:S:361:GLU:HB3	1:S:369:ILE:HD13	1.19	1.10
1:B:180:LEU:HD21	1:B:261:LEU:HD23	1.34	1.10
1:F:43:VAL:HG13	1:F:44:MET:N	1.54	1.10
1:O:180:LEU:HD21	1:O:261:LEU:HD23	1.33	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:180:LEU:HD21	1:U:261:LEU:HD23	1.34	1.10
1:V:34:ILE:HB	1:V:54:VAL:HG11	1.30	1.10
1:W:34:ILE:HB	1:W:54:VAL:HG11	1.30	1.10
1:A:357:ILE:HG12	1:A:370:VAL:HG23	1.13	1.09
1:B:208:ILE:HD11	1:B:243:PRO:HD2	1.34	1.09
1:J:34:ILE:HB	1:J:54:VAL:HG11	1.30	1.09
1:K:180:LEU:HD21	1:K:261:LEU:HD23	1.34	1.09
1:S:208:ILE:HD11	1:S:243:PRO:HD2	1.34	1.09
1:C:180:LEU:HD21	1:C:261:LEU:HD23	1.34	1.09
1:E:361:GLU:HB3	1:E:369:ILE:HD13	1.19	1.09
1:J:361:GLU:HB3	1:J:369:ILE:HD13	1.20	1.09
1:P:180:LEU:HD21	1:P:261:LEU:HD23	1.34	1.09
1:P:208:ILE:HD11	1:P:243:PRO:HD2	1.34	1.09
1:R:180:LEU:HD21	1:R:261:LEU:HD23	1.34	1.09
1:A:43:VAL:HG13	1:A:44:MET:H	0.92	1.09
1:H:180:LEU:HD21	1:H:261:LEU:HD23	1.34	1.09
1:J:180:LEU:HD21	1:J:261:LEU:HD23	1.34	1.09
1:J:208:ILE:HD11	1:J:243:PRO:HD2	1.34	1.09
1:W:180:LEU:HD21	1:W:261:LEU:HD23	1.34	1.09
1:H:208:ILE:HD11	1:H:243:PRO:HD2	1.34	1.09
1:M:208:ILE:HD11	1:M:243:PRO:HD2	1.34	1.09
1:N:208:ILE:HD11	1:N:243:PRO:HD2	1.34	1.09
1:R:361:GLU:HB3	1:R:369:ILE:HD13	1.19	1.09
1:S:43:VAL:HG13	1:S:44:MET:N	1.54	1.09
1:S:180:LEU:HD21	1:S:261:LEU:HD23	1.34	1.09
1:C:208:ILE:HD11	1:C:243:PRO:HD2	1.34	1.09
1:D:208:ILE:HD11	1:D:243:PRO:HD2	1.34	1.09
1:F:180:LEU:HD21	1:F:261:LEU:HD23	1.34	1.09
1:G:180:LEU:HD21	1:G:261:LEU:HD23	1.34	1.09
1:J:43:VAL:HG13	1:J:44:MET:H	0.92	1.09
1:K:34:ILE:HB	1:K:54:VAL:HG11	1.30	1.09
1:O:208:ILE:HD11	1:O:243:PRO:HD2	1.34	1.09
1:P:357:ILE:HG12	1:P:370:VAL:HG23	1.13	1.09
1:R:43:VAL:HG13	1:R:44:MET:H	0.92	1.09
1:T:43:VAL:HG13	1:T:44:MET:H	0.92	1.09
1:T:180:LEU:HD21	1:T:261:LEU:HD23	1.34	1.09
1:T:290:ARG:HD2	1:V:244:ASP:HB2	1.21	1.09
1:L:43:VAL:HG13	1:L:44:MET:H	0.92	1.08
1:T:43:VAL:HG13	1:T:44:MET:N	1.54	1.08
1:T:208:ILE:HD11	1:T:243:PRO:HD2	1.34	1.08
1:E:208:ILE:HD11	1:E:243:PRO:HD2	1.34	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:361:GLU:HB3	1:H:369:ILE:HD13	1.19	1.08
1:I:208:ILE:HD11	1:I:243:PRO:HD2	1.34	1.08
1:U:43:VAL:HG13	1:U:44:MET:H	0.92	1.08
1:E:43:VAL:HG13	1:E:44:MET:N	1.54	1.08
1:E:290:ARG:HD2	1:G:244:ASP:HB2	1.21	1.08
1:G:290:ARG:HD2	1:I:244:ASP:HB2	1.21	1.08
1:I:43:VAL:HG13	1:I:44:MET:H	0.92	1.08
1:U:208:ILE:HD11	1:U:243:PRO:HD2	1.34	1.08
1:H:35:VAL:HG12	1:H:68:LYS:HB2	1.36	1.08
1:L:180:LEU:HD21	1:L:261:LEU:HD23	1.34	1.08
1:N:180:LEU:HD21	1:N:261:LEU:HD23	1.34	1.08
1:O:35:VAL:HG12	1:O:68:LYS:HB2	1.36	1.08
1:B:34:ILE:HB	1:B:54:VAL:HG11	1.30	1.08
1:C:43:VAL:HG13	1:C:44:MET:H	0.92	1.08
1:D:34:ILE:HB	1:D:54:VAL:HG11	1.30	1.08
1:M:180:LEU:HD21	1:M:261:LEU:HD23	1.34	1.08
1:S:35:VAL:HG12	1:S:68:LYS:HB2	1.36	1.08
1:W:361:GLU:HB3	1:W:369:ILE:HD13	1.19	1.08
1:D:35:VAL:HG12	1:D:68:LYS:HB2	1.36	1.07
1:H:34:ILE:HB	1:H:54:VAL:HG11	1.30	1.07
1:I:361:GLU:HB3	1:I:369:ILE:HD13	1.19	1.07
1:T:361:GLU:HB3	1:T:369:ILE:HD13	1.19	1.07
1:A:180:LEU:HD21	1:A:261:LEU:HD23	1.34	1.07
1:Q:43:VAL:HG13	1:Q:44:MET:N	1.54	1.07
1:S:43:VAL:HG13	1:S:44:MET:H	0.92	1.07
1:K:43:VAL:HG13	1:K:44:MET:H	0.92	1.07
1:M:34:ILE:HB	1:M:54:VAL:HG11	1.30	1.07
1:U:34:ILE:HB	1:U:54:VAL:HG11	1.30	1.07
1:W:43:VAL:HG13	1:W:44:MET:H	0.92	1.07
1:G:43:VAL:HG13	1:G:44:MET:H	0.92	1.07
1:I:35:VAL:HG12	1:I:68:LYS:HB2	1.36	1.07
1:B:43:VAL:HG13	1:B:44:MET:H	0.92	1.07
1:C:290:ARG:HD2	1:E:244:ASP:HB2	1.21	1.07
1:F:34:ILE:HB	1:F:54:VAL:HG11	1.30	1.07
1:G:43:VAL:HG13	1:G:44:MET:N	1.54	1.07
1:K:35:VAL:HG12	1:K:68:LYS:HB2	1.36	1.07
1:H:43:VAL:HG13	1:H:44:MET:H	0.92	1.06
1:S:34:ILE:HB	1:S:54:VAL:HG11	1.30	1.06
1:V:43:VAL:HG13	1:V:44:MET:N	1.54	1.06
1:V:43:VAL:HG13	1:V:44:MET:H	0.92	1.06
1:N:35:VAL:HG12	1:N:68:LYS:HB2	1.36	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:43:VAL:HG13	1:N:44:MET:H	0.92	1.06
1:O:43:VAL:HG13	1:O:44:MET:N	1.54	1.06
1:P:43:VAL:HG13	1:P:44:MET:H	0.92	1.06
1:A:208:ILE:HD11	1:A:243:PRO:HD2	1.34	1.06
1:B:35:VAL:HG12	1:B:68:LYS:HB2	1.36	1.06
1:T:35:VAL:HG12	1:T:68:LYS:HB2	1.36	1.06
1:U:35:VAL:HG12	1:U:68:LYS:HB2	1.36	1.06
1:D:43:VAL:HG13	1:D:44:MET:H	0.92	1.06
1:Q:208:ILE:HD11	1:Q:243:PRO:HD2	1.34	1.06
1:V:35:VAL:HG12	1:V:68:LYS:HB2	1.36	1.06
1:W:35:VAL:HG12	1:W:68:LYS:HB2	1.36	1.06
1:C:35:VAL:HG12	1:C:68:LYS:HB2	1.36	1.05
1:J:35:VAL:HG12	1:J:68:LYS:HB2	1.36	1.05
1:L:208:ILE:HD11	1:L:243:PRO:HD2	1.34	1.05
1:Q:43:VAL:HG13	1:Q:44:MET:H	0.92	1.05
1:V:208:ILE:HD11	1:V:243:PRO:HD2	1.34	1.05
1:A:34:ILE:HB	1:A:54:VAL:CG1	1.87	1.05
1:C:34:ILE:HB	1:C:54:VAL:CG1	1.87	1.05
1:J:37:ARG:HG3	1:J:38:PRO:HD2	1.37	1.05
1:L:35:VAL:HG12	1:L:68:LYS:HB2	1.36	1.05
1:M:43:VAL:HG13	1:M:44:MET:H	0.92	1.05
1:O:34:ILE:HB	1:O:54:VAL:HG11	1.30	1.05
1:Q:34:ILE:HB	1:Q:54:VAL:HG11	1.30	1.05
1:R:34:ILE:HB	1:R:54:VAL:CG1	1.87	1.05
1:T:34:ILE:HB	1:T:54:VAL:CG1	1.87	1.05
1:W:34:ILE:HB	1:W:54:VAL:CG1	1.87	1.05
1:F:208:ILE:HD11	1:F:243:PRO:HD2	1.34	1.05
1:L:37:ARG:HG3	1:L:38:PRO:HD2	1.37	1.05
1:V:34:ILE:HB	1:V:54:VAL:CG1	1.87	1.05
1:E:34:ILE:HB	1:E:54:VAL:CG1	1.87	1.05
1:G:208:ILE:HD11	1:G:243:PRO:HD2	1.34	1.05
1:L:45:VAL:HG22	1:L:45:VAL:O	1.57	1.05
1:M:35:VAL:HG12	1:M:68:LYS:HB2	1.36	1.05
1:P:34:ILE:HB	1:P:54:VAL:CG1	1.87	1.05
1:W:37:ARG:HG3	1:W:38:PRO:HD2	1.37	1.05
1:E:35:VAL:HG12	1:E:68:LYS:HB2	1.36	1.04
1:E:43:VAL:HG13	1:E:44:MET:H	0.92	1.04
1:T:34:ILE:HG21	1:T:67:LEU:HD22	1.40	1.04
1:U:34:ILE:HB	1:U:54:VAL:CG1	1.87	1.04
1:G:34:ILE:HG21	1:G:67:LEU:HD22	1.40	1.04
1:H:45:VAL:O	1:H:45:VAL:HG22	1.57	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:34:ILE:HG21	1:K:67:LEU:HD22	1.40	1.04
1:K:208:ILE:HD11	1:K:243:PRO:HD2	1.34	1.04
1:B:34:ILE:HG21	1:B:67:LEU:HD22	1.40	1.04
1:E:34:ILE:HG21	1:E:67:LEU:HD22	1.40	1.04
1:G:34:ILE:HB	1:G:54:VAL:CG1	1.87	1.04
1:H:37:ARG:HG3	1:H:38:PRO:HD2	1.37	1.04
1:R:208:ILE:HD11	1:R:243:PRO:HD2	1.34	1.04
1:S:34:ILE:HB	1:S:54:VAL:CG1	1.87	1.04
1:V:37:ARG:HG3	1:V:38:PRO:HD2	1.37	1.04
1:W:208:ILE:HD11	1:W:243:PRO:HD2	1.34	1.04
1:A:37:ARG:HG3	1:A:38:PRO:HD2	1.37	1.04
1:B:34:ILE:HB	1:B:54:VAL:CG1	1.87	1.04
1:F:34:ILE:HB	1:F:54:VAL:CG1	1.87	1.04
1:F:43:VAL:HG13	1:F:44:MET:H	0.92	1.04
1:H:34:ILE:HB	1:H:54:VAL:CG1	1.87	1.04
1:J:34:ILE:HB	1:J:54:VAL:CG1	1.87	1.04
1:M:34:ILE:HG21	1:M:67:LEU:HD22	1.40	1.04
1:N:34:ILE:HB	1:N:54:VAL:CG1	1.87	1.04
1:A:35:VAL:HG12	1:A:68:LYS:HB2	1.36	1.04
1:D:34:ILE:HB	1:D:54:VAL:CG1	1.87	1.04
1:D:34:ILE:HG21	1:D:67:LEU:HD22	1.40	1.04
1:D:45:VAL:HG22	1:D:45:VAL:O	1.57	1.04
1:P:34:ILE:HG21	1:P:67:LEU:HD22	1.40	1.04
1:P:45:VAL:O	1:P:45:VAL:HG22	1.57	1.04
1:Q:34:ILE:HG21	1:Q:67:LEU:HD22	1.40	1.04
1:R:34:ILE:HG21	1:R:67:LEU:HD22	1.40	1.04
1:V:34:ILE:HG21	1:V:67:LEU:HD22	1.40	1.04
1:C:45:VAL:O	1:C:45:VAL:HG22	1.57	1.03
1:F:35:VAL:HG12	1:F:68:LYS:HB2	1.36	1.03
1:L:34:ILE:HB	1:L:54:VAL:CG1	1.87	1.03
1:M:37:ARG:HG3	1:M:38:PRO:HD2	1.37	1.03
1:N:37:ARG:HG3	1:N:38:PRO:HD2	1.37	1.03
1:P:35:VAL:HG12	1:P:68:LYS:HB2	1.36	1.03
1:U:45:VAL:O	1:U:45:VAL:HG22	1.57	1.03
1:B:37:ARG:HG3	1:B:38:PRO:HD2	1.37	1.03
1:C:37:ARG:HG3	1:C:38:PRO:HD2	1.37	1.03
1:I:34:ILE:HB	1:I:54:VAL:CG1	1.87	1.03
1:K:37:ARG:HG3	1:K:38:PRO:HD2	1.37	1.03
1:N:34:ILE:HG21	1:N:67:LEU:HD22	1.40	1.03
1:O:34:ILE:HG21	1:O:67:LEU:HD22	1.40	1.03
1:O:37:ARG:HG3	1:O:38:PRO:HD2	1.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:34:ILE:HB	1:Q:54:VAL:CG1	1.87	1.03
1:Q:35:VAL:HG12	1:Q:68:LYS:HB2	1.36	1.03
1:A:34:ILE:HG21	1:A:67:LEU:HD22	1.40	1.03
1:I:34:ILE:HG21	1:I:67:LEU:HD22	1.40	1.03
1:S:34:ILE:HG21	1:S:67:LEU:HD22	1.40	1.03
1:T:37:ARG:HG3	1:T:38:PRO:HD2	1.37	1.03
1:U:37:ARG:HG3	1:U:38:PRO:HD2	1.37	1.03
1:M:34:ILE:HB	1:M:54:VAL:CG1	1.87	1.03
1:O:34:ILE:HB	1:O:54:VAL:CG1	1.87	1.03
1:P:37:ARG:HG3	1:P:38:PRO:HD2	1.37	1.03
1:Q:45:VAL:HG22	1:Q:45:VAL:O	1.57	1.03
1:R:35:VAL:HG12	1:R:68:LYS:HB2	1.36	1.03
1:C:34:ILE:HG21	1:C:67:LEU:HD22	1.40	1.03
1:K:34:ILE:HB	1:K:54:VAL:CG1	1.87	1.03
1:O:43:VAL:HG13	1:O:44:MET:H	0.92	1.03
1:Q:37:ARG:HG3	1:Q:38:PRO:HD2	1.37	1.03
1:F:34:ILE:HG21	1:F:67:LEU:HD22	1.40	1.02
1:G:35:VAL:HG12	1:G:68:LYS:HB2	1.36	1.02
1:L:34:ILE:HG21	1:L:67:LEU:HD22	1.40	1.02
1:F:37:ARG:HG3	1:F:38:PRO:HD2	1.37	1.02
1:I:37:ARG:HG3	1:I:38:PRO:HD2	1.37	1.02
1:R:37:ARG:HG3	1:R:38:PRO:HD2	1.37	1.02
1:S:45:VAL:O	1:S:45:VAL:HG22	1.57	1.02
1:U:34:ILE:HG21	1:U:67:LEU:HD22	1.40	1.02
1:W:45:VAL:O	1:W:45:VAL:HG22	1.57	1.02
1:S:37:ARG:HG3	1:S:38:PRO:HD2	1.37	1.02
1:E:37:ARG:HG3	1:E:38:PRO:HD2	1.37	1.02
1:J:34:ILE:HG21	1:J:67:LEU:HD22	1.40	1.01
1:D:37:ARG:HG3	1:D:38:PRO:HD2	1.37	1.01
1:W:34:ILE:HG21	1:W:67:LEU:HD22	1.40	1.01
1:A:45:VAL:HG22	1:A:45:VAL:O	1.57	1.01
1:G:45:VAL:O	1:G:45:VAL:HG22	1.57	1.01
1:M:45:VAL:O	1:M:45:VAL:HG22	1.57	1.01
1:H:34:ILE:HG21	1:H:67:LEU:HD22	1.40	1.01
1:T:45:VAL:HG22	1:T:45:VAL:O	1.57	1.01
1:F:45:VAL:HG22	1:F:45:VAL:O	1.57	1.01
1:G:37:ARG:HG3	1:G:38:PRO:HD2	1.37	1.00
1:R:208:ILE:HD11	1:R:243:PRO:CD	1.92	1.00
1:B:208:ILE:HD11	1:B:243:PRO:CD	1.92	1.00
1:J:45:VAL:O	1:J:45:VAL:HG22	1.57	1.00
1:R:43:VAL:CG1	1:R:44:MET:H	1.74	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:8:LEU:HD12	1:S:90:PHE:HE1	1.27	1.00
1:T:208:ILE:HD11	1:T:243:PRO:CD	1.92	1.00
1:D:208:ILE:HD11	1:D:243:PRO:CD	1.92	1.00
1:G:43:VAL:CG1	1:G:44:MET:H	1.74	1.00
1:I:8:LEU:HD12	1:I:90:PHE:HE1	1.27	1.00
1:P:208:ILE:HD11	1:P:243:PRO:CD	1.92	1.00
1:U:208:ILE:HD11	1:U:243:PRO:CD	1.92	1.00
1:W:208:ILE:HD11	1:W:243:PRO:CD	1.92	1.00
1:I:208:ILE:HD11	1:I:243:PRO:CD	1.92	1.00
1:K:208:ILE:HD11	1:K:243:PRO:CD	1.92	1.00
1:O:8:LEU:HD12	1:O:90:PHE:HE1	1.27	1.00
1:D:8:LEU:HD12	1:D:90:PHE:HE1	1.27	1.00
1:H:8:LEU:HD12	1:H:90:PHE:HE1	1.27	1.00
1:U:43:VAL:CG1	1:U:44:MET:H	1.74	1.00
1:W:43:VAL:CG1	1:W:44:MET:H	1.74	1.00
1:A:208:ILE:HD11	1:A:243:PRO:CD	1.92	1.00
1:F:208:ILE:HD11	1:F:243:PRO:CD	1.92	1.00
1:M:208:ILE:HD11	1:M:243:PRO:CD	1.92	1.00
1:S:208:ILE:HD11	1:S:243:PRO:CD	1.92	1.00
1:T:8:LEU:HD12	1:T:90:PHE:HE1	1.27	1.00
1:E:8:LEU:HD12	1:E:90:PHE:HE1	1.27	1.00
1:P:43:VAL:CG1	1:P:44:MET:H	1.74	1.00
1:B:8:LEU:HD12	1:B:90:PHE:HE1	1.27	0.99
1:G:208:ILE:HD11	1:G:243:PRO:CD	1.92	0.99
1:N:45:VAL:HG22	1:N:45:VAL:O	1.57	0.99
1:N:208:ILE:HD11	1:N:243:PRO:CD	1.92	0.99
1:V:45:VAL:HG22	1:V:45:VAL:O	1.57	0.99
1:V:208:ILE:HD11	1:V:243:PRO:CD	1.92	0.99
1:N:8:LEU:HD12	1:N:90:PHE:HE1	1.27	0.99
1:M:8:LEU:HD12	1:M:90:PHE:HE1	1.27	0.99
1:P:8:LEU:HD12	1:P:90:PHE:HE1	1.27	0.99
1:C:208:ILE:HD11	1:C:243:PRO:CD	1.92	0.99
1:S:43:VAL:CG1	1:S:44:MET:H	1.74	0.99
1:W:8:LEU:HD12	1:W:90:PHE:HE1	1.27	0.99
1:H:208:ILE:HD11	1:H:243:PRO:CD	1.92	0.99
1:E:43:VAL:CG1	1:E:44:MET:H	1.74	0.99
1:L:8:LEU:HD12	1:L:90:PHE:HE1	1.27	0.99
1:L:208:ILE:HD11	1:L:243:PRO:CD	1.92	0.99
1:N:43:VAL:CG1	1:N:44:MET:H	1.74	0.99
1:O:208:ILE:HD11	1:O:243:PRO:CD	1.92	0.99
1:A:43:VAL:CG1	1:A:44:MET:H	1.74	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:208:ILE:HD11	1:Q:243:PRO:CD	1.92	0.99
1:E:208:ILE:HD11	1:E:243:PRO:CD	1.92	0.99
1:V:8:LEU:HD12	1:V:90:PHE:HE1	1.27	0.99
1:A:8:LEU:HD12	1:A:90:PHE:HE1	1.27	0.99
1:I:45:VAL:HG22	1:I:45:VAL:O	1.57	0.98
1:J:208:ILE:HD11	1:J:243:PRO:CD	1.92	0.98
1:L:43:VAL:CG1	1:L:44:MET:H	1.74	0.98
1:Q:43:VAL:CG1	1:Q:44:MET:H	1.74	0.98
1:R:45:VAL:O	1:R:45:VAL:HG22	1.57	0.98
1:K:8:LEU:HD12	1:K:90:PHE:HE1	1.27	0.98
1:K:45:VAL:O	1:K:45:VAL:HG22	1.57	0.98
1:F:8:LEU:HD12	1:F:90:PHE:HE1	1.27	0.98
1:C:43:VAL:CG1	1:C:44:MET:H	1.74	0.97
1:J:43:VAL:CG1	1:J:44:MET:H	1.74	0.97
1:O:45:VAL:O	1:O:45:VAL:HG22	1.57	0.97
1:U:8:LEU:HD12	1:U:90:PHE:HE1	1.27	0.97
1:O:43:VAL:CG1	1:O:44:MET:H	1.74	0.97
1:B:45:VAL:O	1:B:45:VAL:HG22	1.57	0.97
1:E:45:VAL:O	1:E:45:VAL:HG22	1.57	0.97
1:G:8:LEU:HD12	1:G:90:PHE:HE1	1.27	0.97
1:R:8:LEU:HD12	1:R:90:PHE:HE1	1.27	0.97
1:V:43:VAL:CG1	1:V:44:MET:H	1.74	0.97
1:Q:8:LEU:HD12	1:Q:90:PHE:HE1	1.27	0.97
1:C:8:LEU:HD12	1:C:90:PHE:HE1	1.27	0.96
1:H:43:VAL:CG1	1:H:44:MET:H	1.74	0.96
1:N:300:SER:HA	1:N:335:ARG:CG	1.96	0.96
1:U:300:SER:HA	1:U:335:ARG:CG	1.96	0.96
1:E:300:SER:HA	1:E:335:ARG:CG	1.96	0.96
1:J:300:SER:HA	1:J:335:ARG:CG	1.96	0.96
1:C:300:SER:HA	1:C:335:ARG:CG	1.96	0.96
1:T:300:SER:HA	1:T:335:ARG:CG	1.96	0.96
1:M:43:VAL:CG1	1:M:44:MET:H	1.74	0.95
1:P:300:SER:HA	1:P:335:ARG:CG	1.96	0.95
1:J:8:LEU:HD12	1:J:90:PHE:HE1	1.27	0.95
1:F:43:VAL:CG1	1:F:44:MET:H	1.74	0.95
1:F:300:SER:HA	1:F:335:ARG:CG	1.96	0.95
1:H:300:SER:HA	1:H:335:ARG:CG	1.96	0.95
1:A:300:SER:HA	1:A:335:ARG:CG	1.96	0.95
1:L:300:SER:HA	1:L:335:ARG:CG	1.96	0.95
1:Q:300:SER:HA	1:Q:335:ARG:CG	1.96	0.95
1:O:300:SER:HA	1:O:335:ARG:CG	1.96	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:300:SER:HA	1:W:335:ARG:CG	1.96	0.95
1:T:43:VAL:CG1	1:T:44:MET:H	1.74	0.95
1:V:39:ARG:HE	1:V:66:THR:HB	1.32	0.95
1:S:300:SER:HA	1:S:335:ARG:CG	1.96	0.94
1:R:300:SER:HA	1:R:335:ARG:CG	1.96	0.94
1:T:39:ARG:HE	1:T:66:THR:HB	1.32	0.94
1:I:300:SER:HA	1:I:335:ARG:CG	1.96	0.94
1:M:300:SER:HA	1:M:335:ARG:CG	1.96	0.94
1:B:300:SER:HA	1:B:335:ARG:CG	1.96	0.94
1:G:300:SER:HA	1:G:335:ARG:CG	1.96	0.94
1:H:43:VAL:CG1	1:H:44:MET:N	2.30	0.94
1:K:300:SER:HA	1:K:335:ARG:CG	1.96	0.94
1:N:133:TYR:CZ	1:N:375:PHE:HB2	2.03	0.94
1:L:133:TYR:CZ	1:L:375:PHE:HB2	2.03	0.94
1:C:133:TYR:CZ	1:C:375:PHE:HB2	2.03	0.94
1:D:300:SER:HA	1:D:335:ARG:CG	1.96	0.94
1:N:43:VAL:CG1	1:N:44:MET:N	2.30	0.94
1:P:133:TYR:CZ	1:P:375:PHE:HB2	2.03	0.94
1:A:39:ARG:HE	1:A:66:THR:HB	1.32	0.94
1:B:133:TYR:CZ	1:B:375:PHE:HB2	2.03	0.94
1:C:39:ARG:HE	1:C:66:THR:HB	1.32	0.94
1:K:39:ARG:HE	1:K:66:THR:HB	1.32	0.94
1:K:43:VAL:CG1	1:K:44:MET:H	1.74	0.94
1:R:39:ARG:HE	1:R:66:THR:HB	1.32	0.94
1:V:300:SER:HA	1:V:335:ARG:CG	1.96	0.94
1:D:43:VAL:CG1	1:D:44:MET:H	1.74	0.94
1:M:39:ARG:HE	1:M:66:THR:HB	1.32	0.94
1:E:133:TYR:CZ	1:E:375:PHE:HB2	2.03	0.93
1:W:43:VAL:CG1	1:W:44:MET:N	2.30	0.93
1:W:133:TYR:CZ	1:W:375:PHE:HB2	2.03	0.93
1:A:133:TYR:CZ	1:A:375:PHE:HB2	2.03	0.93
1:G:133:TYR:CZ	1:G:375:PHE:HB2	2.03	0.93
1:R:133:TYR:CZ	1:R:375:PHE:HB2	2.03	0.93
1:D:133:TYR:CZ	1:D:375:PHE:HB2	2.03	0.93
1:U:133:TYR:CZ	1:U:375:PHE:HB2	2.03	0.93
1:E:39:ARG:HE	1:E:66:THR:HB	1.32	0.93
1:K:133:TYR:CZ	1:K:375:PHE:HB2	2.03	0.93
1:Q:133:TYR:CZ	1:Q:375:PHE:HB2	2.03	0.93
1:S:133:TYR:CZ	1:S:375:PHE:HB2	2.03	0.93
1:C:43:VAL:CG1	1:C:44:MET:N	2.30	0.93
1:I:39:ARG:HE	1:I:66:THR:HB	1.32	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:133:TYR:CZ	1:J:375:PHE:HB2	2.03	0.93
1:I:133:TYR:CZ	1:I:375:PHE:HB2	2.03	0.93
1:Q:34:ILE:CB	1:Q:54:VAL:HG11	1.99	0.93
1:S:39:ARG:HE	1:S:66:THR:HB	1.32	0.93
1:U:39:ARG:HE	1:U:66:THR:HB	1.32	0.93
1:M:133:TYR:CZ	1:M:375:PHE:HB2	2.03	0.93
1:O:39:ARG:HE	1:O:66:THR:HB	1.32	0.93
1:G:39:ARG:HE	1:G:66:THR:HB	1.32	0.92
1:S:34:ILE:CB	1:S:54:VAL:HG11	1.99	0.92
1:D:357:ILE:CG1	1:D:370:VAL:HG23	2.00	0.92
1:O:34:ILE:CB	1:O:54:VAL:HG11	1.99	0.92
1:O:133:TYR:CZ	1:O:375:PHE:HB2	2.03	0.92
1:R:43:VAL:CG1	1:R:44:MET:N	2.30	0.92
1:F:43:VAL:CG1	1:F:44:MET:N	2.30	0.92
1:F:133:TYR:CZ	1:F:375:PHE:HB2	2.03	0.92
1:B:34:ILE:CB	1:B:54:VAL:HG11	1.99	0.92
1:O:357:ILE:CG1	1:O:370:VAL:HG23	2.00	0.92
1:T:133:TYR:CZ	1:T:375:PHE:HB2	2.03	0.92
1:W:39:ARG:HE	1:W:66:THR:HB	1.32	0.92
1:H:39:ARG:HE	1:H:66:THR:HB	1.32	0.92
1:J:39:ARG:HE	1:J:66:THR:HB	1.32	0.92
1:U:34:ILE:CB	1:U:54:VAL:HG11	1.99	0.92
1:U:357:ILE:CG1	1:U:370:VAL:HG23	2.00	0.92
1:V:34:ILE:CB	1:V:54:VAL:HG11	1.99	0.92
1:V:133:TYR:CZ	1:V:375:PHE:HB2	2.03	0.92
1:H:133:TYR:CZ	1:H:375:PHE:HB2	2.03	0.92
1:M:34:ILE:CB	1:M:54:VAL:HG11	1.99	0.92
1:P:39:ARG:HE	1:P:66:THR:HB	1.32	0.92
1:A:300:SER:HA	1:A:335:ARG:HG3	1.51	0.92
1:B:43:VAL:CG1	1:B:44:MET:H	1.74	0.92
1:J:34:ILE:CB	1:J:54:VAL:HG11	1.99	0.92
1:L:43:VAL:CG1	1:L:44:MET:N	2.30	0.92
1:C:34:ILE:CB	1:C:54:VAL:HG11	1.99	0.91
1:D:39:ARG:HE	1:D:66:THR:HB	1.32	0.91
1:H:34:ILE:CB	1:H:54:VAL:HG11	1.99	0.91
1:M:357:ILE:CG1	1:M:370:VAL:HG23	2.00	0.91
1:Q:39:ARG:HE	1:Q:66:THR:HB	1.32	0.91
1:B:357:ILE:CG1	1:B:370:VAL:HG23	2.00	0.91
1:D:34:ILE:CB	1:D:54:VAL:HG11	1.99	0.91
1:A:34:ILE:CB	1:A:54:VAL:HG11	1.99	0.91
1:C:357:ILE:CG1	1:C:370:VAL:HG23	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:39:ARG:HE	1:F:66:THR:HB	1.31	0.91
1:G:34:ILE:CB	1:G:54:VAL:HG11	1.99	0.91
1:I:34:ILE:CB	1:I:54:VAL:HG11	1.99	0.91
1:I:43:VAL:CG1	1:I:44:MET:H	1.74	0.91
1:L:39:ARG:HE	1:L:66:THR:HB	1.32	0.91
1:B:39:ARG:HE	1:B:66:THR:HB	1.32	0.91
1:C:300:SER:HA	1:C:335:ARG:HG3	1.51	0.91
1:L:34:ILE:CB	1:L:54:VAL:HG11	1.99	0.91
1:S:357:ILE:CG1	1:S:370:VAL:HG23	2.00	0.91
1:E:34:ILE:CB	1:E:54:VAL:HG11	1.99	0.91
1:U:43:VAL:CG1	1:U:44:MET:N	2.30	0.91
1:F:34:ILE:CB	1:F:54:VAL:HG11	1.99	0.91
1:A:357:ILE:CG1	1:A:370:VAL:HG23	2.00	0.91
1:E:357:ILE:CG1	1:E:370:VAL:HG23	2.00	0.91
1:B:300:SER:HA	1:B:335:ARG:HG3	1.51	0.91
1:N:39:ARG:HE	1:N:66:THR:HB	1.32	0.91
1:T:34:ILE:CB	1:T:54:VAL:HG11	1.99	0.91
1:T:357:ILE:CG1	1:T:370:VAL:HG23	2.00	0.91
1:H:357:ILE:CG1	1:H:370:VAL:HG23	2.00	0.91
1:N:357:ILE:CG1	1:N:370:VAL:HG23	2.00	0.91
1:T:300:SER:HA	1:T:335:ARG:HG3	1.51	0.91
1:W:34:ILE:CB	1:W:54:VAL:HG11	1.99	0.91
1:D:300:SER:HA	1:D:335:ARG:HG3	1.51	0.91
1:K:34:ILE:CB	1:K:54:VAL:HG11	1.99	0.91
1:N:34:ILE:CB	1:N:54:VAL:HG11	1.99	0.91
1:V:300:SER:HA	1:V:335:ARG:HG3	1.51	0.91
1:E:290:ARG:HD2	1:G:244:ASP:CB	2.01	0.90
1:E:300:SER:HA	1:E:335:ARG:HG3	1.51	0.90
1:L:357:ILE:CG1	1:L:370:VAL:HG23	2.00	0.90
1:M:300:SER:HA	1:M:335:ARG:HG3	1.51	0.90
1:P:290:ARG:HD2	1:R:244:ASP:CB	2.02	0.90
1:R:34:ILE:CB	1:R:54:VAL:HG11	1.99	0.90
1:R:300:SER:HA	1:R:335:ARG:HG3	1.51	0.90
1:V:357:ILE:CG1	1:V:370:VAL:HG23	2.00	0.90
1:K:290:ARG:HD2	1:M:244:ASP:CB	2.02	0.90
1:M:290:ARG:HD2	1:O:244:ASP:CB	2.01	0.90
1:O:300:SER:HA	1:O:335:ARG:HG3	1.51	0.90
1:Q:300:SER:HA	1:Q:335:ARG:HG3	1.51	0.90
1:R:357:ILE:CG1	1:R:370:VAL:HG23	2.00	0.90
1:G:290:ARG:HD2	1:I:244:ASP:CB	2.01	0.90
1:P:34:ILE:CB	1:P:54:VAL:HG11	1.99	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:300:SER:HA	1:P:335:ARG:HG3	1.51	0.90
1:Q:290:ARG:HD2	1:S:244:ASP:CB	2.02	0.90
1:A:290:ARG:HD2	1:C:244:ASP:CB	2.02	0.90
1:G:43:VAL:CG1	1:G:44:MET:N	2.30	0.90
1:J:290:ARG:HD2	1:L:244:ASP:CB	2.02	0.90
1:P:357:ILE:CG1	1:P:370:VAL:HG23	2.00	0.90
1:B:290:ARG:HD2	1:D:244:ASP:CB	2.02	0.90
1:F:290:ARG:HD2	1:H:244:ASP:CB	2.02	0.90
1:L:290:ARG:HD2	1:N:244:ASP:CB	2.01	0.90
1:R:290:ARG:HD2	1:T:244:ASP:CB	2.01	0.90
1:S:300:SER:HA	1:S:335:ARG:HG3	1.51	0.90
1:T:104:LEU:HB2	1:T:356:TRP:CH2	2.07	0.90
1:H:73:HIC:HA	1:H:183:ARG:HH12	1.36	0.90
1:H:104:LEU:HB2	1:H:356:TRP:CH2	2.07	0.90
1:R:104:LEU:HB2	1:R:356:TRP:CH2	2.07	0.90
1:F:104:LEU:HB2	1:F:356:TRP:CH2	2.07	0.90
1:F:300:SER:HA	1:F:335:ARG:HG3	1.51	0.90
1:N:104:LEU:HB2	1:N:356:TRP:CH2	2.07	0.90
1:N:300:SER:HA	1:N:335:ARG:HG3	1.51	0.90
1:P:104:LEU:HB2	1:P:356:TRP:CH2	2.07	0.90
1:W:300:SER:HA	1:W:335:ARG:HG3	1.51	0.90
1:D:104:LEU:HB2	1:D:356:TRP:CH2	2.07	0.90
1:F:34:ILE:HG21	1:F:67:LEU:CD2	2.02	0.90
1:F:73:HIC:HA	1:F:183:ARG:HH12	1.36	0.90
1:G:357:ILE:CG1	1:G:370:VAL:HG23	2.00	0.90
1:J:357:ILE:CG1	1:J:370:VAL:HG23	2.00	0.90
1:M:43:VAL:CG1	1:M:44:MET:N	2.30	0.90
1:U:34:ILE:HG21	1:U:67:LEU:CD2	2.02	0.90
1:U:290:ARG:HD2	1:W:244:ASP:CB	2.02	0.90
1:V:104:LEU:HB2	1:V:356:TRP:CH2	2.07	0.90
1:A:104:LEU:HB2	1:A:356:TRP:CH2	2.07	0.90
1:B:104:LEU:HB2	1:B:356:TRP:CH2	2.07	0.90
1:H:300:SER:HA	1:H:335:ARG:HG3	1.51	0.90
1:J:104:LEU:HB2	1:J:356:TRP:CH2	2.07	0.90
1:L:34:ILE:HG21	1:L:67:LEU:CD2	2.02	0.90
1:N:290:ARG:HD2	1:P:244:ASP:CB	2.01	0.90
1:A:43:VAL:CG1	1:A:44:MET:N	2.30	0.89
1:C:290:ARG:HD2	1:E:244:ASP:CB	2.01	0.89
1:J:73:HIC:HA	1:J:183:ARG:HH12	1.36	0.89
1:L:104:LEU:HB2	1:L:356:TRP:CH2	2.07	0.89
1:O:34:ILE:HG21	1:O:67:LEU:CD2	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:73:HIC:HA	1:Q:183:ARG:HH12	1.36	0.89
1:W:104:LEU:HB2	1:W:356:TRP:CH2	2.07	0.89
1:I:357:ILE:CG1	1:I:370:VAL:HG23	2.00	0.89
1:J:300:SER:HA	1:J:335:ARG:HG3	1.51	0.89
1:K:300:SER:HA	1:K:335:ARG:HG3	1.51	0.89
1:N:34:ILE:HG21	1:N:67:LEU:CD2	2.02	0.89
1:S:73:HIC:HA	1:S:183:ARG:HH12	1.36	0.89
1:S:236:LEU:HD13	1:S:251:GLY:CA	2.02	0.89
1:T:290:ARG:HD2	1:V:244:ASP:CB	2.01	0.89
1:C:104:LEU:HB2	1:C:356:TRP:CH2	2.07	0.89
1:L:300:SER:HA	1:L:335:ARG:HG3	1.51	0.89
1:O:236:LEU:HD13	1:O:251:GLY:CA	2.02	0.89
1:Q:236:LEU:HD13	1:Q:251:GLY:CA	2.03	0.89
1:U:104:LEU:HB2	1:U:356:TRP:CH2	2.07	0.89
1:W:236:LEU:HD13	1:W:251:GLY:CA	2.02	0.89
1:G:300:SER:HA	1:G:335:ARG:HG3	1.51	0.89
1:H:34:ILE:HG21	1:H:67:LEU:CD2	2.02	0.89
1:K:357:ILE:CG1	1:K:370:VAL:HG23	2.00	0.89
1:S:290:ARG:HD2	1:U:244:ASP:CB	2.01	0.89
1:U:236:LEU:HD13	1:U:251:GLY:CA	2.02	0.89
1:W:34:ILE:HG21	1:W:67:LEU:CD2	2.02	0.89
1:A:236:LEU:HD13	1:A:251:GLY:CA	2.03	0.89
1:D:290:ARG:HD2	1:F:244:ASP:CB	2.01	0.89
1:V:73:HIC:HA	1:V:183:ARG:HH12	1.36	0.89
1:W:357:ILE:CG1	1:W:370:VAL:HG23	2.00	0.89
1:D:43:VAL:CG1	1:D:44:MET:N	2.30	0.89
1:E:34:ILE:HG21	1:E:67:LEU:CD2	2.02	0.89
1:E:104:LEU:HB2	1:E:356:TRP:CH2	2.07	0.89
1:H:8:LEU:HD12	1:H:90:PHE:CE1	2.08	0.89
1:K:104:LEU:HB2	1:K:356:TRP:CH2	2.07	0.89
1:O:73:HIC:HA	1:O:183:ARG:HH12	1.36	0.89
1:O:290:ARG:HD2	1:Q:244:ASP:CB	2.01	0.89
1:Q:34:ILE:HG21	1:Q:67:LEU:CD2	2.02	0.89
1:Q:357:ILE:CG1	1:Q:370:VAL:HG23	2.00	0.89
1:R:8:LEU:HD12	1:R:90:PHE:CE1	2.08	0.89
1:R:236:LEU:HD13	1:R:251:GLY:CA	2.02	0.89
1:S:104:LEU:HB2	1:S:356:TRP:CH2	2.07	0.89
1:T:236:LEU:HD13	1:T:251:GLY:CA	2.03	0.89
1:A:8:LEU:HD12	1:A:90:PHE:CE1	2.08	0.89
1:B:34:ILE:HG21	1:B:67:LEU:CD2	2.02	0.89
1:G:8:LEU:HD12	1:G:90:PHE:CE1	2.08	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:290:ARG:HD2	1:K:244:ASP:CB	2.02	0.89
1:K:236:LEU:HD13	1:K:251:GLY:CA	2.02	0.89
1:S:8:LEU:HD12	1:S:90:PHE:CE1	2.08	0.89
1:C:34:ILE:HG21	1:C:67:LEU:CD2	2.02	0.89
1:M:34:ILE:HG21	1:M:67:LEU:CD2	2.02	0.89
1:M:104:LEU:HB2	1:M:356:TRP:CH2	2.07	0.89
1:Q:104:LEU:HB2	1:Q:356:TRP:CH2	2.07	0.89
1:T:73:HIC:HA	1:T:183:ARG:HH12	1.36	0.89
1:V:43:VAL:CG1	1:V:44:MET:N	2.30	0.89
1:C:236:LEU:HD13	1:C:251:GLY:CA	2.02	0.89
1:G:104:LEU:HB2	1:G:356:TRP:CH2	2.07	0.89
1:H:290:ARG:HD2	1:J:244:ASP:CB	2.01	0.89
1:L:8:LEU:HD12	1:L:90:PHE:CE1	2.08	0.89
1:M:236:LEU:HD13	1:M:251:GLY:CA	2.03	0.89
1:P:43:VAL:CG1	1:P:44:MET:N	2.30	0.89
1:S:34:ILE:HG21	1:S:67:LEU:CD2	2.02	0.89
1:T:34:ILE:HG21	1:T:67:LEU:CD2	2.02	0.89
1:V:236:LEU:HD13	1:V:251:GLY:CA	2.02	0.89
1:W:8:LEU:HD12	1:W:90:PHE:CE1	2.08	0.89
1:D:73:HIC:HA	1:D:183:ARG:HH12	1.36	0.89
1:G:34:ILE:HG21	1:G:67:LEU:CD2	2.02	0.89
1:I:236:LEU:HD13	1:I:251:GLY:CA	2.03	0.89
1:N:8:LEU:HD12	1:N:90:PHE:CE1	2.08	0.89
1:O:104:LEU:HB2	1:O:356:TRP:CH2	2.07	0.89
1:V:34:ILE:HG21	1:V:67:LEU:CD2	2.02	0.89
1:B:8:LEU:HD12	1:B:90:PHE:CE1	2.08	0.88
1:D:34:ILE:HG21	1:D:67:LEU:CD2	2.02	0.88
1:D:236:LEU:HD13	1:D:251:GLY:CA	2.02	0.88
1:I:300:SER:HA	1:I:335:ARG:HG3	1.51	0.88
1:J:34:ILE:HG21	1:J:67:LEU:CD2	2.02	0.88
1:M:8:LEU:HD12	1:M:90:PHE:CE1	2.08	0.88
1:D:8:LEU:HD12	1:D:90:PHE:CE1	2.08	0.88
1:E:8:LEU:HD12	1:E:90:PHE:CE1	2.08	0.88
1:F:236:LEU:HD13	1:F:251:GLY:CA	2.02	0.88
1:F:357:ILE:CG1	1:F:370:VAL:HG23	2.00	0.88
1:I:104:LEU:HB2	1:I:356:TRP:CH2	2.07	0.88
1:P:236:LEU:HD13	1:P:251:GLY:CA	2.02	0.88
1:C:8:LEU:HD12	1:C:90:PHE:CE1	2.08	0.88
1:C:73:HIC:HA	1:C:183:ARG:HH12	1.36	0.88
1:P:8:LEU:HD12	1:P:90:PHE:CE1	2.08	0.88
1:R:34:ILE:HG21	1:R:67:LEU:CD2	2.02	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:73:HIC:HA	1:U:183:ARG:HH12	1.36	0.88
1:U:300:SER:HA	1:U:335:ARG:HG3	1.51	0.88
1:E:73:HIC:HA	1:E:183:ARG:HH12	1.36	0.88
1:U:8:LEU:HD12	1:U:90:PHE:CE1	2.08	0.88
1:V:8:LEU:HD12	1:V:90:PHE:CE1	2.08	0.88
1:J:43:VAL:CG1	1:J:44:MET:N	2.30	0.88
1:L:73:HIC:HA	1:L:183:ARG:HH12	1.36	0.88
1:A:34:ILE:HG21	1:A:67:LEU:CD2	2.02	0.88
1:B:236:LEU:HD13	1:B:251:GLY:CA	2.02	0.88
1:F:8:LEU:HD12	1:F:90:PHE:CE1	2.08	0.88
1:H:236:LEU:HD13	1:H:251:GLY:CA	2.03	0.88
1:A:73:HIC:HA	1:A:183:ARG:HH12	1.36	0.88
1:E:236:LEU:HD13	1:E:251:GLY:CA	2.02	0.88
1:G:236:LEU:HD13	1:G:251:GLY:CA	2.03	0.88
1:J:8:LEU:HD12	1:J:90:PHE:CE1	2.08	0.88
1:K:8:LEU:HD12	1:K:90:PHE:CE1	2.08	0.88
1:O:8:LEU:HD12	1:O:90:PHE:CE1	2.08	0.88
1:I:34:ILE:HG21	1:I:67:LEU:CD2	2.02	0.88
1:M:73:HIC:HA	1:M:183:ARG:HH12	1.36	0.88
1:P:34:ILE:HG21	1:P:67:LEU:CD2	2.02	0.88
1:Q:8:LEU:HD12	1:Q:90:PHE:CE1	2.08	0.88
1:T:8:LEU:HD12	1:T:90:PHE:CE1	2.08	0.88
1:G:73:HIC:HA	1:G:183:ARG:HH12	1.36	0.88
1:R:73:HIC:HA	1:R:183:ARG:HH12	1.36	0.88
1:K:34:ILE:HG21	1:K:67:LEU:CD2	2.02	0.87
1:S:43:VAL:CG1	1:S:44:MET:N	2.30	0.87
1:I:8:LEU:HD12	1:I:90:PHE:CE1	2.08	0.87
1:N:236:LEU:HD13	1:N:251:GLY:CA	2.02	0.87
1:J:236:LEU:HD13	1:J:251:GLY:CA	2.03	0.87
1:B:73:HIC:HA	1:B:183:ARG:HH12	1.36	0.87
1:L:236:LEU:HD13	1:L:251:GLY:CA	2.03	0.87
1:K:73:HIC:HA	1:K:183:ARG:HH12	1.36	0.87
1:W:73:HIC:HA	1:W:183:ARG:HH12	1.36	0.87
1:I:73:HIC:HA	1:I:183:ARG:HH12	1.36	0.86
1:K:43:VAL:CG1	1:K:44:MET:N	2.30	0.86
1:N:73:HIC:HA	1:N:183:ARG:HH12	1.36	0.86
1:J:134:VAL:O	1:J:375:PHE:HB3	1.76	0.86
1:L:134:VAL:O	1:L:375:PHE:HB3	1.76	0.86
1:N:134:VAL:O	1:N:375:PHE:HB3	1.76	0.86
1:W:134:VAL:O	1:W:375:PHE:HB3	1.76	0.86
1:A:134:VAL:O	1:A:375:PHE:HB3	1.76	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:43:VAL:CG1	1:E:44:MET:N	2.30	0.86
1:C:134:VAL:O	1:C:375:PHE:HB3	1.76	0.85
1:P:134:VAL:O	1:P:375:PHE:HB3	1.76	0.85
1:H:134:VAL:O	1:H:375:PHE:HB3	1.76	0.85
1:P:73:HIC:HA	1:P:183:ARG:HH12	1.36	0.85
1:B:361:GLU:CB	1:B:369:ILE:HD13	2.06	0.85
1:K:361:GLU:CB	1:K:369:ILE:HD13	2.06	0.85
1:V:361:GLU:CB	1:V:369:ILE:HD13	2.06	0.85
1:U:134:VAL:O	1:U:375:PHE:HB3	1.76	0.85
1:R:134:VAL:O	1:R:375:PHE:HB3	1.76	0.85
1:E:134:VAL:O	1:E:375:PHE:HB3	1.76	0.85
1:F:134:VAL:O	1:F:375:PHE:HB3	1.76	0.85
1:S:134:VAL:O	1:S:375:PHE:HB3	1.76	0.85
1:W:361:GLU:CB	1:W:369:ILE:HD13	2.06	0.85
1:H:236:LEU:HD13	1:H:251:GLY:HA3	1.58	0.85
1:T:134:VAL:O	1:T:375:PHE:HB3	1.76	0.85
1:T:361:GLU:CB	1:T:369:ILE:HD13	2.06	0.85
1:G:134:VAL:O	1:G:375:PHE:HB3	1.76	0.85
1:U:236:LEU:HD13	1:U:251:GLY:HA3	1.58	0.85
1:U:361:GLU:CB	1:U:369:ILE:HD13	2.06	0.85
1:B:43:VAL:CG1	1:B:44:MET:N	2.30	0.85
1:D:134:VAL:O	1:D:375:PHE:HB3	1.76	0.85
1:F:236:LEU:HD13	1:F:251:GLY:HA3	1.58	0.84
1:L:236:LEU:HD13	1:L:251:GLY:HA3	1.58	0.84
1:Q:134:VAL:O	1:Q:375:PHE:HB3	1.76	0.84
1:I:361:GLU:CB	1:I:369:ILE:HD13	2.06	0.84
1:V:134:VAL:O	1:V:375:PHE:HB3	1.76	0.84
1:B:134:VAL:O	1:B:375:PHE:HB3	1.76	0.84
1:I:134:VAL:O	1:I:375:PHE:HB3	1.76	0.84
1:M:8:LEU:CD1	1:M:90:PHE:HE1	1.90	0.84
1:N:236:LEU:HD13	1:N:251:GLY:HA3	1.58	0.84
1:O:43:VAL:CG1	1:O:44:MET:N	2.30	0.84
1:T:43:VAL:CG1	1:T:44:MET:N	2.30	0.84
1:J:236:LEU:HD13	1:J:251:GLY:HA3	1.58	0.84
1:K:8:LEU:CD1	1:K:90:PHE:HE1	1.90	0.84
1:O:134:VAL:O	1:O:375:PHE:HB3	1.76	0.84
1:R:361:GLU:CB	1:R:369:ILE:HD13	2.06	0.84
1:V:236:LEU:HD13	1:V:251:GLY:HA3	1.58	0.84
1:W:236:LEU:HD13	1:W:251:GLY:HA3	1.58	0.84
1:A:236:LEU:HD13	1:A:251:GLY:HA3	1.58	0.84
1:K:134:VAL:O	1:K:375:PHE:HB3	1.76	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:287:ILE:HD11	1:N:208:ILE:HD13	1.60	0.84
1:M:134:VAL:O	1:M:375:PHE:HB3	1.76	0.84
1:N:8:LEU:CD1	1:N:90:PHE:HE1	1.90	0.84
1:S:236:LEU:HD13	1:S:251:GLY:HA3	1.58	0.84
1:S:361:GLU:CB	1:S:369:ILE:HD13	2.06	0.84
1:B:8:LEU:CD1	1:B:90:PHE:HE1	1.90	0.84
1:K:236:LEU:HD13	1:K:251:GLY:HA3	1.58	0.84
1:T:236:LEU:HD13	1:T:251:GLY:HA3	1.58	0.84
1:W:8:LEU:CD1	1:W:90:PHE:HE1	1.90	0.84
1:A:361:GLU:CB	1:A:369:ILE:HD13	2.06	0.84
1:F:287:ILE:HD11	1:H:208:ILE:HD13	1.60	0.84
1:M:236:LEU:HD13	1:M:251:GLY:HA3	1.58	0.84
1:U:287:ILE:HD11	1:W:208:ILE:HD13	1.60	0.84
1:V:8:LEU:CD1	1:V:90:PHE:HE1	1.90	0.84
1:H:287:ILE:HD11	1:J:208:ILE:HD13	1.60	0.84
1:C:361:GLU:CB	1:C:369:ILE:HD13	2.06	0.84
1:D:8:LEU:CD1	1:D:90:PHE:HE1	1.90	0.84
1:E:361:GLU:CB	1:E:369:ILE:HD13	2.06	0.84
1:L:8:LEU:CD1	1:L:90:PHE:HE1	1.90	0.84
1:P:8:LEU:CD1	1:P:90:PHE:HE1	1.90	0.84
1:J:361:GLU:CB	1:J:369:ILE:HD13	2.06	0.84
1:N:287:ILE:HD11	1:P:208:ILE:HD13	1.60	0.84
1:P:361:GLU:CB	1:P:369:ILE:HD13	2.06	0.84
1:O:8:LEU:CD1	1:O:90:PHE:HE1	1.90	0.83
1:S:287:ILE:HD11	1:U:208:ILE:HD13	1.60	0.83
1:T:8:LEU:CD1	1:T:90:PHE:HE1	1.90	0.83
1:U:8:LEU:CD1	1:U:90:PHE:HE1	1.90	0.83
1:I:8:LEU:CD1	1:I:90:PHE:HE1	1.90	0.83
1:J:287:ILE:HD11	1:L:208:ILE:HD13	1.60	0.83
1:O:287:ILE:HD11	1:Q:208:ILE:HD13	1.60	0.83
1:B:287:ILE:HD11	1:D:208:ILE:HD13	1.60	0.83
1:C:287:ILE:HD11	1:E:208:ILE:HD13	1.60	0.83
1:E:236:LEU:HD13	1:E:251:GLY:HA3	1.58	0.83
1:G:361:GLU:CB	1:G:369:ILE:HD13	2.06	0.83
1:N:361:GLU:CB	1:N:369:ILE:HD13	2.06	0.83
1:Q:287:ILE:HD11	1:S:208:ILE:HD13	1.60	0.83
1:D:236:LEU:HD13	1:D:251:GLY:HA3	1.58	0.83
1:R:236:LEU:HD13	1:R:251:GLY:HA3	1.58	0.83
1:D:287:ILE:HD11	1:F:208:ILE:HD13	1.60	0.83
1:E:8:LEU:CD1	1:E:90:PHE:HE1	1.90	0.83
1:L:361:GLU:CB	1:L:369:ILE:HD13	2.06	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:236:LEU:HD13	1:O:251:GLY:HA3	1.58	0.83
1:P:236:LEU:HD13	1:P:251:GLY:HA3	1.58	0.83
1:C:8:LEU:CD1	1:C:90:PHE:HE1	1.90	0.83
1:E:287:ILE:HD11	1:G:208:ILE:HD13	1.60	0.83
1:P:287:ILE:HD11	1:R:208:ILE:HD13	1.60	0.83
1:R:8:LEU:CD1	1:R:90:PHE:HE1	1.90	0.83
1:R:287:ILE:HD11	1:T:208:ILE:HD13	1.60	0.83
1:A:287:ILE:HD11	1:C:208:ILE:HD13	1.60	0.83
1:C:236:LEU:HD13	1:C:251:GLY:HA3	1.58	0.83
1:I:236:LEU:HD13	1:I:251:GLY:HA3	1.58	0.83
1:J:8:LEU:CD1	1:J:90:PHE:HE1	1.90	0.83
1:Q:43:VAL:CG1	1:Q:44:MET:N	2.30	0.83
1:M:287:ILE:HD11	1:O:208:ILE:HD13	1.60	0.83
1:Q:361:GLU:CB	1:Q:369:ILE:HD13	2.06	0.83
1:F:8:LEU:CD1	1:F:90:PHE:HE1	1.90	0.83
1:G:8:LEU:CD1	1:G:90:PHE:HE1	1.90	0.83
1:Q:236:LEU:HD13	1:Q:251:GLY:HA3	1.58	0.83
1:A:8:LEU:CD1	1:A:90:PHE:HE1	1.90	0.83
1:B:236:LEU:HD13	1:B:251:GLY:HA3	1.58	0.83
1:S:8:LEU:CD1	1:S:90:PHE:HE1	1.90	0.82
1:T:287:ILE:HD11	1:V:208:ILE:HD13	1.60	0.82
1:G:287:ILE:HD11	1:I:208:ILE:HD13	1.60	0.82
1:H:8:LEU:CD1	1:H:90:PHE:HE1	1.90	0.82
1:Q:35:VAL:N	1:Q:54:VAL:HG21	1.95	0.82
1:E:35:VAL:N	1:E:54:VAL:HG21	1.95	0.82
1:G:35:VAL:N	1:G:54:VAL:HG21	1.95	0.82
1:Q:8:LEU:CD1	1:Q:90:PHE:HE1	1.90	0.82
1:R:35:VAL:N	1:R:54:VAL:HG21	1.95	0.82
1:F:35:VAL:N	1:F:54:VAL:HG21	1.95	0.82
1:K:287:ILE:HD11	1:M:208:ILE:HD13	1.60	0.82
1:C:35:VAL:N	1:C:54:VAL:HG21	1.95	0.82
1:D:35:VAL:N	1:D:54:VAL:HG21	1.95	0.82
1:H:361:GLU:CB	1:H:369:ILE:HD13	2.06	0.82
1:A:35:VAL:N	1:A:54:VAL:HG21	1.95	0.82
1:I:35:VAL:N	1:I:54:VAL:HG21	1.95	0.82
1:I:287:ILE:HD11	1:K:208:ILE:HD13	1.60	0.82
1:K:35:VAL:N	1:K:54:VAL:HG21	1.95	0.82
1:M:35:VAL:N	1:M:54:VAL:HG21	1.95	0.82
1:B:35:VAL:N	1:B:54:VAL:HG21	1.95	0.82
1:H:140:LEU:O	1:H:342:GLY:HA3	1.80	0.82
1:J:140:LEU:O	1:J:342:GLY:HA3	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:35:VAL:N	1:W:54:VAL:HG21	1.95	0.82
1:F:140:LEU:O	1:F:342:GLY:HA3	1.80	0.82
1:G:236:LEU:HD13	1:G:251:GLY:HA3	1.58	0.82
1:L:35:VAL:N	1:L:54:VAL:HG21	1.95	0.82
1:V:35:VAL:N	1:V:54:VAL:HG21	1.95	0.82
1:K:169:TYR:CZ	1:M:40:HIS:HB3	2.15	0.81
1:U:35:VAL:N	1:U:54:VAL:HG21	1.95	0.81
1:L:140:LEU:O	1:L:342:GLY:HA3	1.80	0.81
1:O:35:VAL:N	1:O:54:VAL:HG21	1.95	0.81
1:S:35:VAL:N	1:S:54:VAL:HG21	1.95	0.81
1:T:35:VAL:N	1:T:54:VAL:HG21	1.95	0.81
1:A:169:TYR:CZ	1:C:40:HIS:HB3	2.15	0.81
1:B:140:LEU:O	1:B:342:GLY:HA3	1.80	0.81
1:B:169:TYR:CZ	1:D:40:HIS:HB3	2.15	0.81
1:C:362:TYR:HE1	1:C:367:PRO:HB3	1.46	0.81
1:D:140:LEU:O	1:D:342:GLY:HA3	1.80	0.81
1:E:140:LEU:O	1:E:342:GLY:HA3	1.80	0.81
1:H:35:VAL:N	1:H:54:VAL:HG21	1.95	0.81
1:I:169:TYR:CZ	1:K:40:HIS:HB3	2.16	0.81
1:J:362:TYR:HE1	1:J:367:PRO:HB3	1.46	0.81
1:M:169:TYR:CZ	1:O:40:HIS:HB3	2.16	0.81
1:N:35:VAL:N	1:N:54:VAL:HG21	1.95	0.81
1:N:140:LEU:O	1:N:342:GLY:HA3	1.80	0.81
1:T:169:TYR:CZ	1:V:40:HIS:HB3	2.15	0.81
1:V:362:TYR:HE1	1:V:367:PRO:HB3	1.46	0.81
1:C:140:LEU:O	1:C:342:GLY:HA3	1.80	0.81
1:J:35:VAL:N	1:J:54:VAL:HG21	1.95	0.81
1:L:362:TYR:HE1	1:L:367:PRO:HB3	1.46	0.81
1:M:362:TYR:HE1	1:M:367:PRO:HB3	1.46	0.81
1:P:140:LEU:O	1:P:342:GLY:HA3	1.80	0.81
1:R:169:TYR:CZ	1:T:40:HIS:HB3	2.16	0.81
1:A:362:TYR:HE1	1:A:367:PRO:HB3	1.46	0.81
1:C:169:TYR:CZ	1:E:40:HIS:HB3	2.15	0.81
1:D:169:TYR:CZ	1:F:40:HIS:HB3	2.15	0.81
1:O:361:GLU:CB	1:O:369:ILE:HD13	2.06	0.81
1:E:362:TYR:HE1	1:E:367:PRO:HB3	1.46	0.81
1:I:140:LEU:O	1:I:342:GLY:HA3	1.80	0.81
1:K:140:LEU:O	1:K:342:GLY:HA3	1.80	0.81
1:O:169:TYR:CZ	1:Q:40:HIS:HB3	2.15	0.81
1:U:143:TYR:HD1	1:U:143:TYR:O	1.64	0.81
1:G:143:TYR:HD1	1:G:143:TYR:O	1.64	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:143:TYR:HD1	1:J:143:TYR:O	1.64	0.81
1:N:362:TYR:HE1	1:N:367:PRO:HB3	1.46	0.81
1:P:35:VAL:N	1:P:54:VAL:HG21	1.95	0.81
1:T:140:LEU:O	1:T:342:GLY:HA3	1.80	0.81
1:T:362:TYR:HE1	1:T:367:PRO:HB3	1.46	0.81
1:V:140:LEU:O	1:V:342:GLY:HA3	1.80	0.81
1:H:362:TYR:HE1	1:H:367:PRO:HB3	1.46	0.81
1:K:362:TYR:HE1	1:K:367:PRO:HB3	1.46	0.81
1:R:140:LEU:O	1:R:342:GLY:HA3	1.80	0.81
1:V:143:TYR:O	1:V:143:TYR:HD1	1.64	0.81
1:D:143:TYR:O	1:D:143:TYR:HD1	1.64	0.81
1:F:169:TYR:CZ	1:H:40:HIS:HB3	2.16	0.81
1:F:361:GLU:CB	1:F:369:ILE:HD13	2.06	0.81
1:G:140:LEU:O	1:G:342:GLY:HA3	1.80	0.81
1:G:169:TYR:CZ	1:I:40:HIS:HB3	2.15	0.81
1:I:362:TYR:HE1	1:I:367:PRO:HB3	1.46	0.81
1:O:362:TYR:HE1	1:O:367:PRO:HB3	1.46	0.81
1:E:143:TYR:HD1	1:E:143:TYR:O	1.64	0.81
1:F:143:TYR:O	1:F:143:TYR:HD1	1.64	0.81
1:L:169:TYR:CZ	1:N:40:HIS:HB3	2.16	0.81
1:N:169:TYR:CZ	1:P:40:HIS:HB3	2.16	0.81
1:W:362:TYR:HE1	1:W:367:PRO:HB3	1.46	0.81
1:B:362:TYR:HE1	1:B:367:PRO:HB3	1.46	0.80
1:C:357:ILE:HG12	1:C:370:VAL:CG2	2.07	0.80
1:H:169:TYR:CZ	1:J:40:HIS:HB3	2.15	0.80
1:J:169:TYR:CZ	1:L:40:HIS:HB3	2.15	0.80
1:M:140:LEU:O	1:M:342:GLY:HA3	1.80	0.80
1:Q:143:TYR:O	1:Q:143:TYR:HD1	1.64	0.80
1:U:362:TYR:HE1	1:U:367:PRO:HB3	1.46	0.80
1:D:362:TYR:HE1	1:D:367:PRO:HB3	1.46	0.80
1:F:362:TYR:HE1	1:F:367:PRO:HB3	1.46	0.80
1:Q:169:TYR:CZ	1:S:40:HIS:HB3	2.16	0.80
1:E:169:TYR:CZ	1:G:40:HIS:HB3	2.15	0.80
1:E:357:ILE:HG12	1:E:370:VAL:CG2	2.07	0.80
1:N:357:ILE:HG12	1:N:370:VAL:CG2	2.07	0.80
1:P:143:TYR:O	1:P:143:TYR:HD1	1.64	0.80
1:P:357:ILE:HG12	1:P:370:VAL:CG2	2.07	0.80
1:R:32:PRO:HG2	1:R:55:GLY:O	1.82	0.80
1:G:32:PRO:HG2	1:G:55:GLY:O	1.82	0.80
1:O:143:TYR:O	1:O:143:TYR:HD1	1.64	0.80
1:P:169:TYR:CZ	1:R:40:HIS:HB3	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:32:PRO:HG2	1:C:55:GLY:O	1.82	0.80
1:N:143:TYR:O	1:N:143:TYR:HD1	1.64	0.80
1:O:140:LEU:O	1:O:342:GLY:HA3	1.80	0.80
1:Q:362:TYR:HE1	1:Q:367:PRO:HB3	1.46	0.80
1:A:32:PRO:HG2	1:A:55:GLY:O	1.82	0.80
1:A:357:ILE:HG12	1:A:370:VAL:CG2	2.07	0.80
1:G:39:ARG:HE	1:G:66:THR:CB	1.95	0.80
1:H:143:TYR:O	1:H:143:TYR:HD1	1.64	0.80
1:I:43:VAL:CG1	1:I:44:MET:N	2.30	0.80
1:J:58:ALA:HB1	1:J:65:LEU:HD22	1.64	0.80
1:L:58:ALA:HB1	1:L:65:LEU:HD22	1.64	0.80
1:P:39:ARG:HE	1:P:66:THR:CB	1.95	0.80
1:S:169:TYR:CZ	1:U:40:HIS:HB3	2.15	0.80
1:U:32:PRO:HG2	1:U:55:GLY:O	1.82	0.80
1:A:58:ALA:HB1	1:A:65:LEU:HD22	1.64	0.80
1:E:39:ARG:HE	1:E:66:THR:CB	1.95	0.80
1:G:362:TYR:HE1	1:G:367:PRO:HB3	1.46	0.80
1:I:32:PRO:HG2	1:I:55:GLY:O	1.82	0.80
1:I:45:VAL:O	1:I:45:VAL:CG2	2.30	0.80
1:P:362:TYR:HE1	1:P:367:PRO:HB3	1.46	0.80
1:Q:32:PRO:HG2	1:Q:55:GLY:O	1.82	0.80
1:R:45:VAL:O	1:R:45:VAL:CG2	2.30	0.80
1:S:32:PRO:HG2	1:S:55:GLY:O	1.82	0.80
1:C:143:TYR:O	1:C:143:TYR:HD1	1.64	0.80
1:E:45:VAL:O	1:E:45:VAL:CG2	2.30	0.80
1:K:143:TYR:O	1:K:143:TYR:HD1	1.64	0.80
1:L:32:PRO:HG2	1:L:55:GLY:O	1.82	0.80
1:L:45:VAL:O	1:L:45:VAL:CG2	2.30	0.80
1:R:39:ARG:HE	1:R:66:THR:CB	1.95	0.80
1:U:58:ALA:HB1	1:U:65:LEU:HD22	1.64	0.80
1:U:140:LEU:O	1:U:342:GLY:HA3	1.80	0.80
1:M:143:TYR:HD1	1:M:143:TYR:O	1.64	0.80
1:N:58:ALA:HB1	1:N:65:LEU:HD22	1.64	0.80
1:P:58:ALA:HB1	1:P:65:LEU:HD22	1.64	0.80
1:Q:140:LEU:O	1:Q:342:GLY:HA3	1.80	0.80
1:R:362:TYR:HE1	1:R:367:PRO:HB3	1.46	0.80
1:S:362:TYR:HE1	1:S:367:PRO:HB3	1.46	0.80
1:U:45:VAL:O	1:U:45:VAL:CG2	2.30	0.80
1:U:169:TYR:CZ	1:W:40:HIS:HB3	2.16	0.80
1:V:45:VAL:O	1:V:45:VAL:CG2	2.30	0.80
1:W:58:ALA:HB1	1:W:65:LEU:HD22	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:140:LEU:O	1:A:342:GLY:HA3	1.80	0.79
1:C:45:VAL:O	1:C:45:VAL:CG2	2.30	0.79
1:H:45:VAL:O	1:H:45:VAL:CG2	2.30	0.79
1:L:357:ILE:HG12	1:L:370:VAL:CG2	2.07	0.79
1:S:143:TYR:O	1:S:143:TYR:HD1	1.64	0.79
1:V:32:PRO:HG2	1:V:55:GLY:O	1.82	0.79
1:V:39:ARG:HE	1:V:66:THR:CB	1.95	0.79
1:W:32:PRO:HG2	1:W:55:GLY:O	1.82	0.79
1:W:143:TYR:O	1:W:143:TYR:HD1	1.64	0.79
1:D:336:LYS:HE2	2:D:401:ADP:H5'2	1.65	0.79
1:F:58:ALA:HB1	1:F:65:LEU:HD22	1.64	0.79
1:M:8:LEU:CD1	1:M:90:PHE:CE1	2.66	0.79
1:N:39:ARG:HE	1:N:66:THR:CB	1.95	0.79
1:O:32:PRO:HG2	1:O:55:GLY:O	1.82	0.79
1:F:45:VAL:O	1:F:45:VAL:CG2	2.30	0.79
1:F:336:LYS:HE2	2:F:401:ADP:H5'2	1.65	0.79
1:I:336:LYS:HE2	2:I:401:ADP:H5'2	1.65	0.79
1:K:8:LEU:CD1	1:K:90:PHE:CE1	2.66	0.79
1:S:140:LEU:O	1:S:342:GLY:HA3	1.80	0.79
1:T:32:PRO:HG2	1:T:55:GLY:O	1.82	0.79
1:W:140:LEU:O	1:W:342:GLY:HA3	1.80	0.79
1:H:58:ALA:HB1	1:H:65:LEU:HD22	1.64	0.79
1:I:39:ARG:HE	1:I:66:THR:CB	1.95	0.79
1:K:336:LYS:HE2	2:K:401:ADP:H5'2	1.65	0.79
1:M:32:PRO:HG2	1:M:55:GLY:O	1.82	0.79
1:M:39:ARG:HE	1:M:66:THR:CB	1.95	0.79
1:O:39:ARG:HE	1:O:66:THR:CB	1.95	0.79
1:T:143:TYR:O	1:T:143:TYR:HD1	1.64	0.79
1:T:357:ILE:HG12	1:T:370:VAL:CG2	2.07	0.79
1:A:39:ARG:HE	1:A:66:THR:CB	1.95	0.79
1:B:336:LYS:HE2	2:B:401:ADP:H5'2	1.65	0.79
1:D:54:VAL:HA	1:D:58:ALA:HB2	1.65	0.79
1:G:336:LYS:HE2	2:G:401:ADP:H5'2	1.65	0.79
1:G:357:ILE:HG12	1:G:370:VAL:CG2	2.07	0.79
1:H:39:ARG:HE	1:H:66:THR:CB	1.95	0.79
1:P:32:PRO:HG2	1:P:55:GLY:O	1.82	0.79
1:P:45:VAL:O	1:P:45:VAL:CG2	2.30	0.79
1:R:357:ILE:HG12	1:R:370:VAL:CG2	2.07	0.79
1:V:8:LEU:CD1	1:V:90:PHE:CE1	2.66	0.79
1:B:143:TYR:HD1	1:B:143:TYR:O	1.64	0.79
1:E:58:ALA:HB1	1:E:65:LEU:HD22	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:39:ARG:HE	1:F:66:THR:CB	1.95	0.79
1:H:336:LYS:HE2	2:H:401:ADP:H5'2	1.65	0.79
1:Q:54:VAL:HA	1:Q:58:ALA:HB2	1.65	0.79
1:S:45:VAL:O	1:S:45:VAL:CG2	2.30	0.79
1:T:8:LEU:CD1	1:T:90:PHE:CE1	2.66	0.79
1:B:8:LEU:CD1	1:B:90:PHE:CE1	2.66	0.79
1:C:39:ARG:HE	1:C:66:THR:CB	1.95	0.79
1:D:8:LEU:CD1	1:D:90:PHE:CE1	2.66	0.79
1:I:143:TYR:O	1:I:143:TYR:HD1	1.64	0.79
1:J:54:VAL:HA	1:J:58:ALA:HB2	1.65	0.79
1:L:54:VAL:HA	1:L:58:ALA:HB2	1.65	0.79
1:N:32:PRO:HG2	1:N:55:GLY:O	1.82	0.79
1:N:45:VAL:O	1:N:45:VAL:CG2	2.30	0.79
1:R:143:TYR:HD1	1:R:143:TYR:O	1.64	0.79
1:S:54:VAL:HA	1:S:58:ALA:HB2	1.65	0.79
1:S:58:ALA:HB1	1:S:65:LEU:HD22	1.64	0.79
1:J:45:VAL:O	1:J:45:VAL:CG2	2.30	0.79
1:J:332:PRO:HG2	1:J:335:ARG:CZ	2.13	0.79
1:K:45:VAL:O	1:K:45:VAL:CG2	2.30	0.79
1:L:143:TYR:O	1:L:143:TYR:HD1	1.64	0.79
1:M:361:GLU:CB	1:M:369:ILE:HD13	2.06	0.79
1:B:32:PRO:HG2	1:B:55:GLY:O	1.82	0.79
1:B:54:VAL:HA	1:B:58:ALA:HB2	1.65	0.79
1:C:58:ALA:HB1	1:C:65:LEU:HD22	1.64	0.79
1:D:32:PRO:HG2	1:D:55:GLY:O	1.82	0.79
1:E:8:LEU:CD1	1:E:90:PHE:CE1	2.66	0.79
1:E:336:LYS:HE2	2:E:401:ADP:H5'2	1.65	0.79
1:F:54:VAL:HA	1:F:58:ALA:HB2	1.65	0.79
1:G:8:LEU:CD1	1:G:90:PHE:CE1	2.66	0.79
1:H:332:PRO:HG2	1:H:335:ARG:CZ	2.13	0.79
1:J:39:ARG:HE	1:J:66:THR:CB	1.95	0.79
1:L:332:PRO:HG2	1:L:335:ARG:CZ	2.13	0.79
1:O:54:VAL:HA	1:O:58:ALA:HB2	1.65	0.79
1:Q:39:ARG:HE	1:Q:66:THR:CB	1.95	0.79
1:U:54:VAL:HA	1:U:58:ALA:HB2	1.65	0.79
1:W:39:ARG:HE	1:W:66:THR:CB	1.95	0.79
1:D:39:ARG:HE	1:D:66:THR:CB	1.95	0.79
1:H:54:VAL:HA	1:H:58:ALA:HB2	1.65	0.79
1:M:336:LYS:HE2	2:M:401:ADP:H5'2	1.65	0.79
1:V:357:ILE:HG12	1:V:370:VAL:CG2	2.07	0.79
1:W:8:LEU:CD1	1:W:90:PHE:CE1	2.66	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:8:LEU:CD1	1:A:90:PHE:CE1	2.66	0.78
1:A:143:TYR:O	1:A:143:TYR:HD1	1.64	0.78
1:Q:58:ALA:HB1	1:Q:65:LEU:HD22	1.64	0.78
1:R:58:ALA:HB1	1:R:65:LEU:HD22	1.64	0.78
1:S:8:LEU:CD1	1:S:90:PHE:CE1	2.66	0.78
1:W:54:VAL:HA	1:W:58:ALA:HB2	1.65	0.78
1:D:361:GLU:CB	1:D:369:ILE:HD13	2.06	0.78
1:E:32:PRO:HG2	1:E:55:GLY:O	1.82	0.78
1:F:332:PRO:HG2	1:F:335:ARG:CZ	2.13	0.78
1:K:39:ARG:HE	1:K:66:THR:CB	1.95	0.78
1:T:39:ARG:HE	1:T:66:THR:CB	1.95	0.78
1:W:45:VAL:O	1:W:45:VAL:CG2	2.30	0.78
1:W:332:PRO:HG2	1:W:335:ARG:CZ	2.13	0.78
1:F:32:PRO:HG2	1:F:55:GLY:O	1.82	0.78
1:G:45:VAL:O	1:G:45:VAL:CG2	2.30	0.78
1:I:8:LEU:CD1	1:I:90:PHE:CE1	2.66	0.78
1:I:332:PRO:HG2	1:I:335:ARG:CZ	2.13	0.78
1:K:332:PRO:HG2	1:K:335:ARG:CZ	2.13	0.78
1:Q:8:LEU:CD1	1:Q:90:PHE:CE1	2.66	0.78
1:S:39:ARG:HE	1:S:66:THR:CB	1.95	0.78
1:T:58:ALA:HB1	1:T:65:LEU:HD22	1.64	0.78
1:W:357:ILE:HG12	1:W:370:VAL:CG2	2.07	0.78
1:C:236:LEU:HD12	1:C:237:GLU:N	1.99	0.78
1:C:336:LYS:HE2	2:C:401:ADP:H5'2	1.65	0.78
1:D:58:ALA:HB1	1:D:65:LEU:HD22	1.64	0.78
1:J:336:LYS:HE2	2:J:401:ADP:H5'2	1.65	0.78
1:L:39:ARG:HE	1:L:66:THR:CB	1.95	0.78
1:O:45:VAL:O	1:O:45:VAL:CG2	2.30	0.78
1:A:332:PRO:HG2	1:A:335:ARG:CZ	2.13	0.78
1:J:8:LEU:CD1	1:J:90:PHE:CE1	2.66	0.78
1:J:357:ILE:HG12	1:J:370:VAL:CG2	2.07	0.78
1:L:236:LEU:HD12	1:L:237:GLU:N	1.99	0.78
1:N:54:VAL:HA	1:N:58:ALA:HB2	1.65	0.78
1:N:332:PRO:HG2	1:N:335:ARG:CZ	2.13	0.78
1:T:332:PRO:HG2	1:T:335:ARG:CZ	2.13	0.78
1:U:8:LEU:CD1	1:U:90:PHE:CE1	2.66	0.78
1:A:54:VAL:HA	1:A:58:ALA:HB2	1.65	0.78
1:B:39:ARG:HE	1:B:66:THR:CB	1.95	0.78
1:C:8:LEU:CD1	1:C:90:PHE:CE1	2.66	0.78
1:G:332:PRO:HG2	1:G:335:ARG:CZ	2.13	0.78
1:H:8:LEU:CD1	1:H:90:PHE:CE1	2.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:32:PRO:HG2	1:H:55:GLY:O	1.82	0.78
1:J:32:PRO:HG2	1:J:55:GLY:O	1.82	0.78
1:K:32:PRO:HG2	1:K:55:GLY:O	1.82	0.78
1:M:332:PRO:HG2	1:M:335:ARG:CZ	2.13	0.78
1:U:332:PRO:HG2	1:U:335:ARG:CZ	2.13	0.78
1:U:336:LYS:HE2	2:U:401:ADP:H5'2	1.65	0.78
1:V:332:PRO:HG2	1:V:335:ARG:CZ	2.13	0.78
1:W:336:LYS:HE2	2:W:401:ADP:H5'2	1.65	0.78
1:B:58:ALA:HB1	1:B:65:LEU:HD22	1.64	0.78
1:D:332:PRO:HG2	1:D:335:ARG:CZ	2.13	0.78
1:O:336:LYS:HE2	2:O:401:ADP:H5'2	1.65	0.78
1:Q:236:LEU:HD12	1:Q:237:GLU:N	1.99	0.78
1:A:336:LYS:HE2	2:A:401:ADP:H5'2	1.65	0.78
1:G:58:ALA:HB1	1:G:65:LEU:HD22	1.64	0.78
1:L:8:LEU:CD1	1:L:90:PHE:CE1	2.66	0.78
1:M:54:VAL:HA	1:M:58:ALA:HB2	1.65	0.78
1:O:236:LEU:HD12	1:O:237:GLU:N	1.99	0.78
1:R:236:LEU:HD12	1:R:237:GLU:N	1.99	0.78
1:S:332:PRO:HG2	1:S:335:ARG:CZ	2.13	0.78
1:T:45:VAL:O	1:T:45:VAL:CG2	2.30	0.78
1:V:336:LYS:HE2	2:V:401:ADP:H5'2	1.65	0.78
1:C:54:VAL:HA	1:C:58:ALA:HB2	1.65	0.78
1:F:8:LEU:CD1	1:F:90:PHE:CE1	2.66	0.78
1:I:58:ALA:HB1	1:I:65:LEU:HD22	1.64	0.78
1:K:54:VAL:HA	1:K:58:ALA:HB2	1.65	0.78
1:K:58:ALA:HB1	1:K:65:LEU:HD22	1.64	0.78
1:P:8:LEU:CD1	1:P:90:PHE:CE1	2.66	0.78
1:S:236:LEU:HD12	1:S:237:GLU:N	1.99	0.78
1:I:173:HIS:CE1	1:J:268:GLY:HA3	2.19	0.78
1:K:173:HIS:CE1	1:L:268:GLY:HA3	2.19	0.78
1:L:336:LYS:HE2	2:L:401:ADP:H5'2	1.65	0.78
1:R:332:PRO:HG2	1:R:335:ARG:CZ	2.13	0.78
1:S:336:LYS:HE2	2:S:401:ADP:H5'2	1.65	0.78
1:A:173:HIS:CE1	1:B:268:GLY:HA3	2.20	0.77
1:G:173:HIS:CE1	1:H:268:GLY:HA3	2.19	0.77
1:O:8:LEU:CD1	1:O:90:PHE:CE1	2.66	0.77
1:O:58:ALA:HB1	1:O:65:LEU:HD22	1.64	0.77
1:P:332:PRO:HG2	1:P:335:ARG:CZ	2.13	0.77
1:U:39:ARG:HE	1:U:66:THR:CB	1.95	0.77
1:A:45:VAL:O	1:A:45:VAL:CG2	2.30	0.77
1:I:357:ILE:HG12	1:I:370:VAL:CG2	2.07	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:58:ALA:HB1	1:M:65:LEU:HD22	1.64	0.77
1:N:8:LEU:CD1	1:N:90:PHE:CE1	2.66	0.77
1:N:236:LEU:HD12	1:N:237:GLU:N	1.99	0.77
1:O:332:PRO:HG2	1:O:335:ARG:CZ	2.13	0.77
1:R:8:LEU:CD1	1:R:90:PHE:CE1	2.66	0.77
1:T:236:LEU:HD12	1:T:237:GLU:N	1.99	0.77
1:V:58:ALA:HB1	1:V:65:LEU:HD22	1.64	0.77
1:A:35:VAL:HG22	1:A:52:SER:HB2	1.66	0.77
1:A:39:ARG:NE	1:A:66:THR:HA	2.00	0.77
1:B:236:LEU:HD12	1:B:237:GLU:N	1.99	0.77
1:C:173:HIS:CE1	1:D:268:GLY:HA3	2.20	0.77
1:C:332:PRO:HG2	1:C:335:ARG:CZ	2.13	0.77
1:E:173:HIS:CE1	1:F:268:GLY:HA3	2.19	0.77
1:E:236:LEU:HD12	1:E:237:GLU:N	1.99	0.77
1:R:54:VAL:HA	1:R:58:ALA:HB2	1.65	0.77
1:E:54:VAL:HA	1:E:58:ALA:HB2	1.65	0.77
1:G:287:ILE:CD1	1:I:208:ILE:HD13	2.15	0.77
1:L:173:HIS:CE1	1:M:268:GLY:HA3	2.19	0.77
1:M:287:ILE:CD1	1:O:208:ILE:HD13	2.15	0.77
1:N:336:LYS:HE2	2:N:401:ADP:H5'2	1.65	0.77
1:Q:332:PRO:HG2	1:Q:335:ARG:CZ	2.13	0.77
1:V:236:LEU:HD12	1:V:237:GLU:N	1.99	0.77
1:A:236:LEU:HD12	1:A:237:GLU:N	1.99	0.77
1:D:287:ILE:CD1	1:F:208:ILE:HD13	2.15	0.77
1:E:332:PRO:HG2	1:E:335:ARG:CZ	2.13	0.77
1:I:54:VAL:HA	1:I:58:ALA:HB2	1.65	0.77
1:K:287:ILE:CD1	1:M:208:ILE:HD13	2.15	0.77
1:L:35:VAL:HG22	1:L:52:SER:HB2	1.66	0.77
1:M:236:LEU:HD12	1:M:237:GLU:N	1.99	0.77
1:P:54:VAL:HA	1:P:58:ALA:HB2	1.65	0.77
1:R:36:GLY:O	1:R:52:SER:HA	1.85	0.77
1:S:287:ILE:CD1	1:U:208:ILE:HD13	2.15	0.77
1:J:39:ARG:NE	1:J:66:THR:HA	2.00	0.77
1:J:173:HIS:CE1	1:K:268:GLY:HA3	2.19	0.77
1:N:287:ILE:CD1	1:P:208:ILE:HD13	2.15	0.77
1:S:173:HIS:CE1	1:T:268:GLY:HA3	2.19	0.77
1:T:36:GLY:O	1:T:52:SER:HA	1.85	0.77
1:T:54:VAL:HA	1:T:58:ALA:HB2	1.65	0.77
1:U:173:HIS:CE1	1:V:268:GLY:HA3	2.20	0.77
1:V:173:HIS:CE1	1:W:268:GLY:HA3	2.19	0.77
1:A:34:ILE:C	1:A:54:VAL:HG21	2.05	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:45:VAL:O	1:D:45:VAL:CG2	2.30	0.77
1:F:287:ILE:CD1	1:H:208:ILE:HD13	2.15	0.77
1:N:173:HIS:CE1	1:O:268:GLY:HA3	2.20	0.77
1:P:36:GLY:O	1:P:52:SER:HA	1.85	0.77
1:P:236:LEU:HD12	1:P:237:GLU:N	1.99	0.77
1:P:287:ILE:CD1	1:R:208:ILE:HD13	2.15	0.77
1:P:336:LYS:HE2	2:P:401:ADP:H5'2	1.65	0.77
1:Q:336:LYS:HE2	2:Q:401:ADP:H5'2	1.65	0.77
1:R:39:ARG:NE	1:R:66:THR:HA	2.00	0.77
1:U:287:ILE:CD1	1:W:208:ILE:HD13	2.15	0.77
1:U:357:ILE:HG12	1:U:370:VAL:CG2	2.07	0.77
1:W:236:LEU:HD12	1:W:237:GLU:N	1.99	0.77
1:B:173:HIS:CE1	1:C:268:GLY:HA3	2.19	0.77
1:C:39:ARG:NE	1:C:66:THR:HA	2.00	0.77
1:E:287:ILE:CD1	1:G:208:ILE:HD13	2.15	0.77
1:H:173:HIS:CE1	1:I:268:GLY:HA3	2.20	0.77
1:J:34:ILE:C	1:J:54:VAL:HG21	2.05	0.77
1:K:34:ILE:C	1:K:54:VAL:HG21	2.06	0.77
1:R:336:LYS:HE2	2:R:401:ADP:H5'2	1.65	0.77
1:T:173:HIS:CE1	1:U:268:GLY:HA3	2.20	0.77
1:T:287:ILE:CD1	1:V:208:ILE:HD13	2.15	0.77
1:T:336:LYS:HE2	2:T:401:ADP:H5'2	1.65	0.77
1:U:236:LEU:HD12	1:U:237:GLU:N	1.99	0.77
1:V:36:GLY:O	1:V:52:SER:HA	1.85	0.77
1:V:54:VAL:HA	1:V:58:ALA:HB2	1.65	0.77
1:B:34:ILE:C	1:B:54:VAL:HG21	2.06	0.77
1:B:332:PRO:HG2	1:B:335:ARG:CZ	2.13	0.77
1:C:37:ARG:HG3	1:C:38:PRO:CD	2.15	0.77
1:E:34:ILE:C	1:E:54:VAL:HG21	2.06	0.77
1:H:236:LEU:HD12	1:H:237:GLU:N	1.99	0.77
1:M:173:HIS:CE1	1:N:268:GLY:HA3	2.19	0.77
1:N:34:ILE:C	1:N:54:VAL:HG21	2.06	0.77
1:P:173:HIS:CE1	1:Q:268:GLY:HA3	2.19	0.77
1:A:54:VAL:HG12	1:A:55:GLY:N	2.00	0.77
1:A:287:ILE:CD1	1:C:208:ILE:HD13	2.15	0.77
1:H:36:GLY:O	1:H:52:SER:HA	1.85	0.77
1:J:236:LEU:HD12	1:J:237:GLU:N	1.99	0.77
1:L:287:ILE:CD1	1:N:208:ILE:HD13	2.15	0.77
1:N:36:GLY:O	1:N:52:SER:HA	1.85	0.77
1:P:35:VAL:HG22	1:P:52:SER:HB2	1.67	0.77
1:Q:36:GLY:O	1:Q:52:SER:HA	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:34:ILE:C	1:R:54:VAL:HG21	2.05	0.77
1:R:173:HIS:CE1	1:S:268:GLY:HA3	2.19	0.77
1:B:36:GLY:O	1:B:52:SER:HA	1.85	0.76
1:D:37:ARG:HG3	1:D:38:PRO:CD	2.15	0.76
1:D:236:LEU:HD12	1:D:237:GLU:N	1.99	0.76
1:F:37:ARG:HG3	1:F:38:PRO:CD	2.15	0.76
1:I:236:LEU:HD12	1:I:237:GLU:N	1.99	0.76
1:N:35:VAL:HG22	1:N:52:SER:HB2	1.66	0.76
1:O:34:ILE:C	1:O:54:VAL:HG21	2.06	0.76
1:P:39:ARG:NE	1:P:66:THR:HA	2.00	0.76
1:P:54:VAL:HG12	1:P:55:GLY:N	2.01	0.76
1:Q:34:ILE:C	1:Q:54:VAL:HG21	2.06	0.76
1:W:34:ILE:C	1:W:54:VAL:HG21	2.05	0.76
1:A:37:ARG:HG3	1:A:38:PRO:CD	2.15	0.76
1:E:35:VAL:HG22	1:E:52:SER:HB2	1.67	0.76
1:E:54:VAL:HG12	1:E:55:GLY:N	2.01	0.76
1:F:34:ILE:C	1:F:54:VAL:HG21	2.06	0.76
1:F:173:HIS:CE1	1:G:268:GLY:HA3	2.19	0.76
1:F:236:LEU:HD12	1:F:237:GLU:N	1.99	0.76
1:G:54:VAL:HA	1:G:58:ALA:HB2	1.65	0.76
1:G:236:LEU:HD12	1:G:237:GLU:N	1.99	0.76
1:H:37:ARG:HG3	1:H:38:PRO:CD	2.15	0.76
1:L:39:ARG:NE	1:L:66:THR:HA	2.00	0.76
1:O:287:ILE:CD1	1:Q:208:ILE:HD13	2.15	0.76
1:S:36:GLY:O	1:S:52:SER:HA	1.85	0.76
1:U:34:ILE:C	1:U:54:VAL:HG21	2.05	0.76
1:U:35:VAL:HG22	1:U:52:SER:HB2	1.67	0.76
1:W:36:GLY:O	1:W:52:SER:HA	1.85	0.76
1:B:287:ILE:CD1	1:D:208:ILE:HD13	2.15	0.76
1:G:34:ILE:C	1:G:54:VAL:HG21	2.05	0.76
1:K:357:ILE:HG12	1:K:370:VAL:CG2	2.07	0.76
1:L:54:VAL:HG12	1:L:55:GLY:N	2.01	0.76
1:O:173:HIS:CE1	1:P:268:GLY:HA3	2.19	0.76
1:Q:287:ILE:CD1	1:S:208:ILE:HD13	2.15	0.76
1:T:34:ILE:C	1:T:54:VAL:HG21	2.06	0.76
1:B:37:ARG:HG3	1:B:38:PRO:CD	2.15	0.76
1:D:173:HIS:CE1	1:E:268:GLY:HA3	2.20	0.76
1:F:36:GLY:O	1:F:52:SER:HA	1.85	0.76
1:H:35:VAL:HG22	1:H:52:SER:HB2	1.66	0.76
1:H:357:ILE:HG12	1:H:370:VAL:CG2	2.07	0.76
1:I:143:TYR:CZ	1:K:45:VAL:HG21	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:287:ILE:CD1	1:K:208:ILE:HD13	2.15	0.76
1:J:143:TYR:CZ	1:L:45:VAL:HG21	2.21	0.76
1:K:236:LEU:HD12	1:K:237:GLU:N	1.99	0.76
1:O:39:ARG:NE	1:O:66:THR:HA	2.00	0.76
1:P:143:TYR:CZ	1:R:45:VAL:HG21	2.21	0.76
1:Q:173:HIS:CE1	1:R:268:GLY:HA3	2.19	0.76
1:T:54:VAL:HG12	1:T:55:GLY:N	2.00	0.76
1:D:34:ILE:C	1:D:54:VAL:HG21	2.06	0.76
1:D:143:TYR:CZ	1:F:45:VAL:HG21	2.21	0.76
1:E:143:TYR:CZ	1:G:45:VAL:HG21	2.21	0.76
1:Q:39:ARG:NE	1:Q:66:THR:HA	2.00	0.76
1:R:35:VAL:HG22	1:R:52:SER:HB2	1.66	0.76
1:S:34:ILE:C	1:S:54:VAL:HG21	2.06	0.76
1:S:143:TYR:CZ	1:U:45:VAL:HG21	2.21	0.76
1:T:39:ARG:NE	1:T:66:THR:HA	2.00	0.76
1:C:35:VAL:HG22	1:C:52:SER:HB2	1.66	0.76
1:D:39:ARG:NE	1:D:66:THR:HA	2.00	0.76
1:F:142:LEU:HD21	1:F:165:ILE:HD13	1.68	0.76
1:G:36:GLY:O	1:G:52:SER:HA	1.85	0.76
1:H:287:ILE:CD1	1:J:208:ILE:HD13	2.15	0.76
1:J:35:VAL:HG22	1:J:52:SER:HB2	1.66	0.76
1:Q:45:VAL:O	1:Q:45:VAL:CG2	2.30	0.76
1:S:142:LEU:HD21	1:S:165:ILE:HD13	1.68	0.76
1:T:35:VAL:HG22	1:T:52:SER:HB2	1.66	0.76
1:U:39:ARG:NE	1:U:66:THR:HA	2.00	0.76
1:U:143:TYR:CZ	1:W:45:VAL:HG21	2.21	0.76
1:G:39:ARG:NE	1:G:66:THR:HA	2.00	0.76
1:I:39:ARG:NE	1:I:66:THR:HA	2.00	0.76
1:L:36:GLY:O	1:L:52:SER:HA	1.85	0.76
1:Q:142:LEU:HD21	1:Q:165:ILE:HD13	1.68	0.76
1:R:287:ILE:CD1	1:T:208:ILE:HD13	2.15	0.76
1:A:36:GLY:O	1:A:52:SER:HA	1.85	0.76
1:C:36:GLY:O	1:C:52:SER:HA	1.85	0.76
1:C:287:ILE:CD1	1:E:208:ILE:HD13	2.15	0.76
1:H:143:TYR:CZ	1:J:45:VAL:HG21	2.21	0.76
1:K:39:ARG:NE	1:K:66:THR:HA	2.00	0.76
1:M:34:ILE:C	1:M:54:VAL:HG21	2.05	0.76
1:M:35:VAL:HG22	1:M:52:SER:HB2	1.66	0.76
1:M:143:TYR:CZ	1:O:45:VAL:HG21	2.21	0.76
1:V:37:ARG:HG3	1:V:38:PRO:CD	2.15	0.76
1:W:142:LEU:HD21	1:W:165:ILE:HD13	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:142:LEU:HD21	1:D:165:ILE:HD13	1.68	0.76
1:F:39:ARG:NE	1:F:66:THR:HA	2.00	0.76
1:G:143:TYR:CZ	1:I:45:VAL:HG21	2.21	0.76
1:H:34:ILE:C	1:H:54:VAL:HG21	2.06	0.76
1:H:39:ARG:NE	1:H:66:THR:HA	2.00	0.76
1:H:142:LEU:HD21	1:H:165:ILE:HD13	1.68	0.76
1:J:142:LEU:HD21	1:J:165:ILE:HD13	1.68	0.76
1:O:143:TYR:CZ	1:Q:45:VAL:HG21	2.21	0.76
1:P:34:ILE:C	1:P:54:VAL:HG21	2.06	0.76
1:S:357:ILE:HG12	1:S:370:VAL:CG2	2.07	0.76
1:T:143:TYR:CZ	1:V:45:VAL:HG21	2.21	0.76
1:W:37:ARG:HG3	1:W:38:PRO:CD	2.15	0.76
1:A:143:TYR:CZ	1:C:45:VAL:HG21	2.21	0.76
1:B:35:VAL:HG22	1:B:52:SER:HB2	1.66	0.76
1:B:44:MET:HG3	1:B:45:VAL:H	1.51	0.76
1:E:36:GLY:O	1:E:52:SER:HA	1.85	0.76
1:I:148:THR:O	1:I:165:ILE:HG22	1.86	0.76
1:J:287:ILE:CD1	1:L:208:ILE:HD13	2.15	0.76
1:K:44:MET:HG3	1:K:45:VAL:H	1.51	0.76
1:M:142:LEU:HD21	1:M:165:ILE:HD13	1.68	0.76
1:O:148:THR:O	1:O:165:ILE:HG22	1.86	0.76
1:R:143:TYR:CZ	1:T:45:VAL:HG21	2.21	0.76
1:S:39:ARG:NE	1:S:66:THR:HA	2.00	0.76
1:T:37:ARG:HG3	1:T:38:PRO:CD	2.15	0.76
1:W:54:VAL:HG12	1:W:55:GLY:N	2.00	0.76
1:G:54:VAL:HG12	1:G:55:GLY:N	2.01	0.75
1:I:34:ILE:C	1:I:54:VAL:HG21	2.06	0.75
1:K:143:TYR:CZ	1:M:45:VAL:HG21	2.21	0.75
1:L:142:LEU:HD21	1:L:165:ILE:HD13	1.68	0.75
1:M:357:ILE:HG12	1:M:370:VAL:CG2	2.07	0.75
1:N:143:TYR:CZ	1:P:45:VAL:HG21	2.21	0.75
1:U:142:LEU:HD21	1:U:165:ILE:HD13	1.68	0.75
1:D:36:GLY:O	1:D:52:SER:HA	1.85	0.75
1:F:35:VAL:HG22	1:F:52:SER:HB2	1.66	0.75
1:K:35:VAL:HG22	1:K:52:SER:HB2	1.66	0.75
1:K:36:GLY:O	1:K:52:SER:HA	1.85	0.75
1:L:143:TYR:CZ	1:N:45:VAL:HG21	2.21	0.75
1:V:39:ARG:NE	1:V:66:THR:HA	2.00	0.75
1:B:142:LEU:HD21	1:B:165:ILE:HD13	1.68	0.75
1:D:148:THR:O	1:D:165:ILE:HG22	1.86	0.75
1:G:35:VAL:HG22	1:G:52:SER:HB2	1.66	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:54:VAL:HG12	1:H:55:GLY:N	2.00	0.75
1:M:36:GLY:O	1:M:52:SER:HA	1.85	0.75
1:O:44:MET:HG3	1:O:45:VAL:H	1.51	0.75
1:O:142:LEU:HD21	1:O:165:ILE:HD13	1.68	0.75
1:R:37:ARG:HG3	1:R:38:PRO:CD	2.15	0.75
1:U:37:ARG:HG3	1:U:38:PRO:CD	2.15	0.75
1:C:34:ILE:C	1:C:54:VAL:HG21	2.06	0.75
1:C:143:TYR:CZ	1:E:45:VAL:HG21	2.21	0.75
1:I:36:GLY:O	1:I:52:SER:HA	1.85	0.75
1:I:54:VAL:HG12	1:I:55:GLY:N	2.01	0.75
1:L:34:ILE:C	1:L:54:VAL:HG21	2.06	0.75
1:M:148:THR:O	1:M:165:ILE:HG22	1.86	0.75
1:N:148:THR:O	1:N:165:ILE:HG22	1.86	0.75
1:O:35:VAL:HG22	1:O:52:SER:HB2	1.66	0.75
1:O:36:GLY:O	1:O:52:SER:HA	1.85	0.75
1:Q:143:TYR:CZ	1:S:45:VAL:HG21	2.21	0.75
1:U:36:GLY:O	1:U:52:SER:HA	1.85	0.75
1:V:54:VAL:HG12	1:V:55:GLY:N	2.00	0.75
1:B:143:TYR:CZ	1:D:45:VAL:HG21	2.21	0.75
1:F:143:TYR:CZ	1:H:45:VAL:HG21	2.21	0.75
1:J:54:VAL:HG12	1:J:55:GLY:N	2.00	0.75
1:L:148:THR:O	1:L:165:ILE:HG22	1.86	0.75
1:M:39:ARG:NE	1:M:66:THR:HA	2.00	0.75
1:N:39:ARG:NE	1:N:66:THR:HA	2.00	0.75
1:O:357:ILE:HG12	1:O:370:VAL:CG2	2.07	0.75
1:Q:142:LEU:HD11	1:Q:165:ILE:HD11	1.69	0.75
1:V:34:ILE:C	1:V:54:VAL:HG21	2.06	0.75
1:W:35:VAL:HG22	1:W:52:SER:HB2	1.66	0.75
1:B:39:ARG:NE	1:B:66:THR:HA	2.00	0.75
1:C:54:VAL:HG12	1:C:55:GLY:N	2.01	0.75
1:D:142:LEU:HD11	1:D:165:ILE:HD11	1.69	0.75
1:F:357:ILE:HG12	1:F:370:VAL:CG2	2.07	0.75
1:I:42:GLY:O	1:I:43:VAL:HG12	1.87	0.75
1:J:36:GLY:O	1:J:52:SER:HA	1.85	0.75
1:K:142:LEU:HD11	1:K:165:ILE:HD11	1.69	0.75
1:P:148:THR:O	1:P:165:ILE:HG22	1.86	0.75
1:Q:44:MET:HG3	1:Q:45:VAL:H	1.52	0.75
1:Q:357:ILE:HG12	1:Q:370:VAL:CG2	2.07	0.75
1:U:44:MET:HG3	1:U:45:VAL:H	1.51	0.75
1:E:39:ARG:NE	1:E:66:THR:HA	2.00	0.75
1:G:42:GLY:O	1:G:43:VAL:HG12	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:148:THR:O	1:J:165:ILE:HG22	1.86	0.75
1:R:54:VAL:HG12	1:R:55:GLY:N	2.01	0.75
1:S:37:ARG:HG3	1:S:38:PRO:CD	2.15	0.75
1:U:42:GLY:O	1:U:43:VAL:HG12	1.87	0.75
1:E:42:GLY:O	1:E:43:VAL:HG12	1.87	0.75
1:H:44:MET:HG3	1:H:45:VAL:H	1.51	0.75
1:I:44:MET:HG3	1:I:45:VAL:H	1.51	0.75
1:K:142:LEU:HD21	1:K:165:ILE:HD13	1.68	0.75
1:N:54:VAL:HG12	1:N:55:GLY:N	2.00	0.75
1:N:290:ARG:CD	1:P:244:ASP:HB2	2.12	0.75
1:B:357:ILE:HG12	1:B:370:VAL:CG2	2.07	0.75
1:E:44:MET:HG3	1:E:45:VAL:H	1.51	0.75
1:F:142:LEU:HD11	1:F:165:ILE:HD11	1.69	0.75
1:K:42:GLY:O	1:K:43:VAL:HG12	1.87	0.75
1:K:54:VAL:HG12	1:K:55:GLY:N	2.00	0.75
1:M:45:VAL:O	1:M:45:VAL:CG2	2.30	0.75
1:P:37:ARG:HG3	1:P:38:PRO:CD	2.16	0.75
1:T:148:THR:O	1:T:165:ILE:HG22	1.86	0.75
1:U:54:VAL:HG12	1:U:55:GLY:N	2.01	0.75
1:V:35:VAL:HG22	1:V:52:SER:HB2	1.66	0.75
1:C:42:GLY:O	1:C:43:VAL:HG12	1.87	0.74
1:D:44:MET:HG3	1:D:45:VAL:H	1.51	0.74
1:D:357:ILE:HG12	1:D:370:VAL:CG2	2.07	0.74
1:J:39:ARG:HE	1:J:66:THR:HA	1.52	0.74
1:J:42:GLY:O	1:J:43:VAL:HG12	1.87	0.74
1:R:148:THR:O	1:R:165:ILE:HG22	1.86	0.74
1:S:42:GLY:O	1:S:43:VAL:HG12	1.87	0.74
1:V:142:LEU:HD11	1:V:165:ILE:HD11	1.69	0.74
1:W:39:ARG:NE	1:W:66:THR:HA	2.00	0.74
1:D:35:VAL:HG22	1:D:52:SER:HB2	1.66	0.74
1:G:148:THR:O	1:G:165:ILE:HG22	1.86	0.74
1:M:142:LEU:HD11	1:M:165:ILE:HD11	1.69	0.74
1:O:142:LEU:HD11	1:O:165:ILE:HD11	1.69	0.74
1:S:35:VAL:HG22	1:S:52:SER:HB2	1.66	0.74
1:T:44:MET:HG3	1:T:45:VAL:H	1.51	0.74
1:U:142:LEU:HD11	1:U:165:ILE:HD11	1.69	0.74
1:V:44:MET:HG3	1:V:45:VAL:H	1.51	0.74
1:A:142:LEU:HD21	1:A:165:ILE:HD13	1.68	0.74
1:A:148:THR:O	1:A:165:ILE:HG22	1.86	0.74
1:B:42:GLY:O	1:B:43:VAL:HG12	1.87	0.74
1:B:148:THR:O	1:B:165:ILE:HG22	1.86	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:142:LEU:HD11	1:G:165:ILE:HD11	1.69	0.74
1:H:148:THR:O	1:H:165:ILE:HG22	1.86	0.74
1:L:42:GLY:O	1:L:43:VAL:HG12	1.87	0.74
1:M:42:GLY:O	1:M:43:VAL:HG12	1.87	0.74
1:N:142:LEU:HD21	1:N:165:ILE:HD13	1.68	0.74
1:P:39:ARG:HE	1:P:66:THR:HA	1.52	0.74
1:S:148:THR:O	1:S:165:ILE:HG22	1.86	0.74
1:D:42:GLY:O	1:D:43:VAL:HG12	1.87	0.74
1:Q:35:VAL:HG22	1:Q:52:SER:HB2	1.66	0.74
1:Q:37:ARG:HG3	1:Q:38:PRO:CD	2.15	0.74
1:Q:54:VAL:HG12	1:Q:55:GLY:N	2.01	0.74
1:Q:290:ARG:CD	1:S:244:ASP:HB2	2.12	0.74
1:R:44:MET:HG3	1:R:45:VAL:H	1.51	0.74
1:W:42:GLY:O	1:W:43:VAL:HG12	1.87	0.74
1:W:148:THR:O	1:W:165:ILE:HG22	1.86	0.74
1:F:44:MET:HG3	1:F:45:VAL:H	1.51	0.74
1:I:35:VAL:HG22	1:I:52:SER:HB2	1.66	0.74
1:O:54:VAL:HG12	1:O:55:GLY:N	2.01	0.74
1:U:148:THR:O	1:U:165:ILE:HG22	1.86	0.74
1:A:42:GLY:O	1:A:43:VAL:HG12	1.87	0.74
1:B:54:VAL:HG12	1:B:55:GLY:N	2.01	0.74
1:F:148:THR:O	1:F:165:ILE:HG22	1.86	0.74
1:H:180:LEU:HD12	1:H:181:ALA:N	2.03	0.74
1:K:148:THR:O	1:K:165:ILE:HG22	1.86	0.74
1:R:39:ARG:HE	1:R:66:THR:HA	1.52	0.74
1:B:142:LEU:HD11	1:B:165:ILE:HD11	1.69	0.74
1:F:180:LEU:HD12	1:F:181:ALA:N	2.03	0.74
1:H:39:ARG:HE	1:H:66:THR:HA	1.52	0.74
1:J:180:LEU:HD12	1:J:181:ALA:N	2.03	0.74
1:J:290:ARG:CD	1:L:244:ASP:HB2	2.12	0.74
1:N:37:ARG:HG3	1:N:38:PRO:CD	2.16	0.74
1:O:180:LEU:HD12	1:O:181:ALA:N	2.03	0.74
1:S:39:ARG:HE	1:S:66:THR:HA	1.52	0.74
1:V:142:LEU:HD21	1:V:165:ILE:HD13	1.68	0.74
1:C:148:THR:O	1:C:165:ILE:HG22	1.86	0.74
1:F:54:VAL:HG12	1:F:55:GLY:N	2.01	0.74
1:G:44:MET:HG3	1:G:45:VAL:H	1.51	0.74
1:H:42:GLY:O	1:H:43:VAL:HG12	1.87	0.74
1:O:42:GLY:O	1:O:43:VAL:HG12	1.87	0.74
1:P:142:LEU:HD21	1:P:165:ILE:HD13	1.68	0.74
1:S:54:VAL:HG12	1:S:55:GLY:N	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:43:VAL:O	1:A:44:MET:CB	2.36	0.74
1:D:54:VAL:HG12	1:D:55:GLY:N	2.00	0.74
1:E:142:LEU:HD21	1:E:165:ILE:HD13	1.68	0.74
1:J:142:LEU:HD11	1:J:165:ILE:HD11	1.69	0.74
1:L:43:VAL:O	1:L:44:MET:CB	2.36	0.74
1:M:180:LEU:HD12	1:M:181:ALA:N	2.03	0.74
1:N:42:GLY:O	1:N:43:VAL:HG12	1.87	0.74
1:O:290:ARG:CD	1:Q:244:ASP:HB2	2.12	0.74
1:Q:42:GLY:O	1:Q:43:VAL:HG12	1.87	0.74
1:Q:180:LEU:HD12	1:Q:181:ALA:N	2.03	0.74
1:R:142:LEU:HD21	1:R:165:ILE:HD13	1.68	0.74
1:S:44:MET:HG3	1:S:45:VAL:H	1.51	0.74
1:V:148:THR:O	1:V:165:ILE:HG22	1.86	0.74
1:G:142:LEU:HD21	1:G:165:ILE:HD13	1.68	0.74
1:J:43:VAL:O	1:J:44:MET:CB	2.36	0.74
1:K:39:ARG:HE	1:K:66:THR:HA	1.52	0.74
1:M:54:VAL:HG12	1:M:55:GLY:N	2.01	0.74
1:R:180:LEU:HD12	1:R:181:ALA:N	2.03	0.74
1:T:142:LEU:HD21	1:T:165:ILE:HD13	1.68	0.74
1:C:43:VAL:O	1:C:44:MET:CB	2.36	0.73
1:C:142:LEU:HD21	1:C:165:ILE:HD13	1.68	0.73
1:D:180:LEU:HD12	1:D:181:ALA:N	2.03	0.73
1:F:290:ARG:CD	1:H:244:ASP:HB2	2.13	0.73
1:I:39:ARG:HE	1:I:66:THR:HA	1.52	0.73
1:I:142:LEU:HD21	1:I:165:ILE:HD13	1.68	0.73
1:P:42:GLY:O	1:P:43:VAL:HG12	1.87	0.73
1:R:142:LEU:HD11	1:R:165:ILE:HD11	1.69	0.73
1:S:180:LEU:HD12	1:S:181:ALA:N	2.03	0.73
1:V:180:LEU:HD12	1:V:181:ALA:N	2.03	0.73
1:B:39:ARG:HE	1:B:66:THR:HA	1.52	0.73
1:B:287:ILE:HD11	1:D:208:ILE:CD1	2.19	0.73
1:E:287:ILE:HD11	1:G:208:ILE:CD1	2.19	0.73
1:G:39:ARG:HE	1:G:66:THR:HA	1.52	0.73
1:G:180:LEU:HD12	1:G:181:ALA:N	2.03	0.73
1:G:287:ILE:HD11	1:I:208:ILE:CD1	2.19	0.73
1:L:180:LEU:HD12	1:L:181:ALA:N	2.03	0.73
1:M:44:MET:HG3	1:M:45:VAL:H	1.51	0.73
1:O:37:ARG:HG3	1:O:38:PRO:CD	2.16	0.73
1:Q:148:THR:O	1:Q:165:ILE:HG22	1.86	0.73
1:R:290:ARG:CD	1:T:244:ASP:HB2	2.12	0.73
1:V:42:GLY:O	1:V:43:VAL:HG12	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:44:MET:HG3	1:A:45:VAL:H	1.51	0.73
1:C:142:LEU:HD11	1:C:165:ILE:CD1	2.19	0.73
1:C:180:LEU:HD12	1:C:181:ALA:N	2.03	0.73
1:E:142:LEU:HD11	1:E:165:ILE:CD1	2.19	0.73
1:E:180:LEU:HD12	1:E:181:ALA:N	2.03	0.73
1:M:167:GLU:CD	1:O:61:LYS:HE2	2.09	0.73
1:N:44:MET:HG3	1:N:45:VAL:H	1.51	0.73
1:O:208:ILE:CD1	1:O:243:PRO:HD2	2.18	0.73
1:R:42:GLY:O	1:R:43:VAL:HG12	1.87	0.73
1:U:43:VAL:O	1:U:44:MET:CB	2.36	0.73
1:A:142:LEU:HD11	1:A:165:ILE:CD1	2.19	0.73
1:A:180:LEU:HD12	1:A:181:ALA:N	2.03	0.73
1:D:287:ILE:HD11	1:F:208:ILE:CD1	2.19	0.73
1:E:142:LEU:HD11	1:E:165:ILE:HD11	1.69	0.73
1:F:42:GLY:O	1:F:43:VAL:HG12	1.87	0.73
1:G:142:LEU:HD11	1:G:165:ILE:CD1	2.19	0.73
1:G:290:ARG:CD	1:I:244:ASP:HB2	2.12	0.73
1:K:180:LEU:HD12	1:K:181:ALA:N	2.03	0.73
1:L:44:MET:HG3	1:L:45:VAL:H	1.51	0.73
1:M:39:ARG:HE	1:M:66:THR:HA	1.52	0.73
1:R:43:VAL:O	1:R:44:MET:CB	2.36	0.73
1:T:142:LEU:HD11	1:T:165:ILE:CD1	2.19	0.73
1:U:290:ARG:CD	1:W:244:ASP:HB2	2.12	0.73
1:W:142:LEU:HD11	1:W:165:ILE:HD11	1.69	0.73
1:B:180:LEU:HD12	1:B:181:ALA:N	2.03	0.73
1:E:39:ARG:HE	1:E:66:THR:HA	1.52	0.73
1:F:34:ILE:HD13	1:F:67:LEU:HD13	1.71	0.73
1:I:287:ILE:HD11	1:K:208:ILE:CD1	2.19	0.73
1:J:142:LEU:HD11	1:J:165:ILE:CD1	2.19	0.73
1:L:142:LEU:HD11	1:L:165:ILE:CD1	2.19	0.73
1:M:34:ILE:HD13	1:M:67:LEU:HD13	1.71	0.73
1:N:43:VAL:O	1:N:44:MET:CB	2.36	0.73
1:N:287:ILE:HD11	1:P:208:ILE:CD1	2.19	0.73
1:P:142:LEU:HD11	1:P:165:ILE:CD1	2.19	0.73
1:P:223:PHE:CD1	1:P:259:GLU:HG2	2.24	0.73
1:R:223:PHE:CD1	1:R:259:GLU:HG2	2.24	0.73
1:S:142:LEU:HD11	1:S:165:ILE:HD11	1.69	0.73
1:S:223:PHE:CD1	1:S:259:GLU:HG2	2.24	0.73
1:U:180:LEU:HD12	1:U:181:ALA:N	2.03	0.73
1:U:223:PHE:CD1	1:U:259:GLU:HG2	2.24	0.73
1:U:287:ILE:HD11	1:W:208:ILE:CD1	2.19	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:43:VAL:O	1:W:44:MET:CB	2.36	0.73
1:A:39:ARG:HE	1:A:66:THR:HA	1.52	0.73
1:C:287:ILE:HD11	1:E:208:ILE:CD1	2.19	0.73
1:E:148:THR:O	1:E:165:ILE:HG22	1.86	0.73
1:G:167:GLU:CD	1:I:61:LYS:HE2	2.09	0.73
1:I:142:LEU:HD11	1:I:165:ILE:HD11	1.69	0.73
1:L:37:ARG:HG3	1:L:38:PRO:CD	2.15	0.73
1:N:142:LEU:HD11	1:N:165:ILE:CD1	2.19	0.73
1:P:287:ILE:HD11	1:R:208:ILE:CD1	2.19	0.73
1:Q:39:ARG:HE	1:Q:66:THR:HA	1.52	0.73
1:Q:223:PHE:CD1	1:Q:259:GLU:HG2	2.24	0.73
1:R:142:LEU:HD11	1:R:165:ILE:CD1	2.19	0.73
1:T:223:PHE:CD1	1:T:259:GLU:HG2	2.24	0.73
1:D:39:ARG:HE	1:D:66:THR:HA	1.52	0.73
1:D:290:ARG:CD	1:F:244:ASP:HB2	2.12	0.73
1:E:208:ILE:CD1	1:E:243:PRO:HD2	2.18	0.73
1:H:34:ILE:HD13	1:H:67:LEU:HD13	1.71	0.73
1:H:142:LEU:HD11	1:H:165:ILE:HD11	1.69	0.73
1:I:142:LEU:HD11	1:I:165:ILE:CD1	2.19	0.73
1:K:287:ILE:HD11	1:M:208:ILE:CD1	2.19	0.73
1:L:142:LEU:HD11	1:L:165:ILE:HD11	1.69	0.73
1:L:287:ILE:HD11	1:N:208:ILE:CD1	2.19	0.73
1:N:180:LEU:HD12	1:N:181:ALA:N	2.03	0.73
1:N:223:PHE:CD1	1:N:259:GLU:HG2	2.24	0.73
1:O:43:VAL:O	1:O:44:MET:CB	2.36	0.73
1:P:44:MET:HG3	1:P:45:VAL:H	1.51	0.73
1:P:180:LEU:HD12	1:P:181:ALA:N	2.03	0.73
1:T:43:VAL:O	1:T:44:MET:CB	2.36	0.73
1:T:180:LEU:HD12	1:T:181:ALA:N	2.03	0.73
1:V:223:PHE:CD1	1:V:259:GLU:HG2	2.24	0.73
1:W:223:PHE:CD1	1:W:259:GLU:HG2	2.24	0.73
1:A:142:LEU:HD11	1:A:165:ILE:HD11	1.69	0.73
1:J:44:MET:HG3	1:J:45:VAL:H	1.51	0.73
1:K:34:ILE:HD13	1:K:67:LEU:HD13	1.71	0.73
1:L:167:GLU:CD	1:N:61:LYS:HE2	2.09	0.73
1:M:43:VAL:O	1:M:44:MET:CB	2.36	0.73
1:N:167:GLU:CD	1:P:61:LYS:HE2	2.09	0.73
1:P:142:LEU:HD11	1:P:165:ILE:HD11	1.69	0.73
1:W:44:MET:HG3	1:W:45:VAL:H	1.51	0.73
1:C:44:MET:HG3	1:C:45:VAL:H	1.51	0.73
1:D:34:ILE:HD13	1:D:67:LEU:HD13	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:167:GLU:CD	1:F:61:LYS:HE2	2.09	0.73
1:F:287:ILE:HD11	1:H:208:ILE:CD1	2.19	0.73
1:I:180:LEU:HD12	1:I:181:ALA:N	2.03	0.73
1:J:34:ILE:HD13	1:J:67:LEU:HD13	1.71	0.73
1:J:167:GLU:CD	1:L:61:LYS:HE2	2.09	0.73
1:K:142:LEU:HD11	1:K:165:ILE:CD1	2.19	0.73
1:L:223:PHE:CD1	1:L:259:GLU:HG2	2.24	0.73
1:M:37:ARG:HG3	1:M:38:PRO:CD	2.16	0.73
1:N:39:ARG:HE	1:N:66:THR:HA	1.52	0.73
1:O:34:ILE:HD13	1:O:67:LEU:HD13	1.71	0.73
1:O:167:GLU:CD	1:Q:61:LYS:HE2	2.09	0.73
1:Q:43:VAL:O	1:Q:44:MET:CB	2.36	0.73
1:R:287:ILE:HD11	1:T:208:ILE:CD1	2.19	0.73
1:S:287:ILE:HD11	1:U:208:ILE:CD1	2.19	0.73
1:T:42:GLY:O	1:T:43:VAL:HG12	1.87	0.73
1:B:45:VAL:O	1:B:45:VAL:CG2	2.30	0.73
1:H:142:LEU:HD11	1:H:165:ILE:CD1	2.19	0.73
1:J:223:PHE:CD1	1:J:259:GLU:HG2	2.24	0.73
1:K:43:VAL:O	1:K:44:MET:CB	2.36	0.73
1:K:167:GLU:CD	1:M:61:LYS:HE2	2.09	0.73
1:P:43:VAL:O	1:P:44:MET:CB	2.36	0.73
1:P:208:ILE:CD1	1:P:243:PRO:HD2	2.18	0.73
1:T:167:GLU:CD	1:V:61:LYS:HE2	2.09	0.73
1:V:43:VAL:O	1:V:44:MET:CB	2.36	0.73
1:W:142:LEU:HD11	1:W:165:ILE:CD1	2.19	0.73
1:F:39:ARG:HE	1:F:66:THR:HA	1.52	0.72
1:J:208:ILE:CD1	1:J:243:PRO:HD2	2.18	0.72
1:K:37:ARG:HG3	1:K:38:PRO:CD	2.16	0.72
1:M:287:ILE:HD11	1:O:208:ILE:CD1	2.19	0.72
1:O:61:LYS:O	1:O:64:ILE:HG22	1.89	0.72
1:O:223:PHE:CD1	1:O:259:GLU:HG2	2.24	0.72
1:T:142:LEU:HD11	1:T:165:ILE:HD11	1.69	0.72
1:U:142:LEU:HD11	1:U:165:ILE:CD1	2.19	0.72
1:W:39:ARG:HE	1:W:66:THR:HA	1.52	0.72
1:C:142:LEU:HD11	1:C:165:ILE:HD11	1.69	0.72
1:H:167:GLU:CD	1:J:61:LYS:HE2	2.09	0.72
1:M:61:LYS:O	1:M:64:ILE:HG22	1.90	0.72
1:S:167:GLU:CD	1:U:61:LYS:HE2	2.09	0.72
1:B:223:PHE:CD1	1:B:259:GLU:HG2	2.24	0.72
1:C:39:ARG:HE	1:C:66:THR:HA	1.52	0.72
1:E:43:VAL:O	1:E:44:MET:CB	2.36	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:34:ILE:HD13	1:I:67:LEU:HD13	1.71	0.72
1:I:37:ARG:HG3	1:I:38:PRO:CD	2.16	0.72
1:I:167:GLU:CD	1:K:61:LYS:HE2	2.09	0.72
1:K:61:LYS:O	1:K:64:ILE:HG22	1.90	0.72
1:N:142:LEU:HD11	1:N:165:ILE:HD11	1.69	0.72
1:P:167:GLU:CD	1:R:61:LYS:HE2	2.09	0.72
1:Q:34:ILE:HD13	1:Q:67:LEU:HD13	1.71	0.72
1:U:244:ASP:OD1	1:U:246:GLN:HG3	1.90	0.72
1:V:142:LEU:HD11	1:V:165:ILE:CD1	2.19	0.72
1:W:180:LEU:HD12	1:W:181:ALA:N	2.03	0.72
1:A:287:ILE:HD11	1:C:208:ILE:CD1	2.19	0.72
1:B:167:GLU:CD	1:D:61:LYS:HE2	2.09	0.72
1:C:301:GLY:H	1:C:335:ARG:HG3	1.55	0.72
1:D:223:PHE:CD1	1:D:259:GLU:HG2	2.24	0.72
1:E:167:GLU:CD	1:G:61:LYS:HE2	2.09	0.72
1:F:167:GLU:CD	1:H:61:LYS:HE2	2.09	0.72
1:F:244:ASP:OD1	1:F:246:GLN:HG3	1.89	0.72
1:H:223:PHE:CD1	1:H:259:GLU:HG2	2.24	0.72
1:J:39:ARG:HE	1:J:66:THR:CA	2.03	0.72
1:J:244:ASP:OD1	1:J:246:GLN:HG3	1.90	0.72
1:J:287:ILE:HD11	1:L:208:ILE:CD1	2.19	0.72
1:M:223:PHE:CD1	1:M:259:GLU:HG2	2.24	0.72
1:O:39:ARG:HE	1:O:66:THR:HA	1.52	0.72
1:Q:167:GLU:CD	1:S:61:LYS:HE2	2.09	0.72
1:R:39:ARG:HE	1:R:66:THR:CA	2.03	0.72
1:S:43:VAL:O	1:S:44:MET:CB	2.36	0.72
1:S:142:LEU:HD11	1:S:165:ILE:CD1	2.19	0.72
1:V:43:VAL:O	1:V:44:MET:HB3	1.90	0.72
1:W:39:ARG:HE	1:W:66:THR:CA	2.03	0.72
1:A:39:ARG:HE	1:A:66:THR:CA	2.03	0.72
1:B:43:VAL:O	1:B:44:MET:CB	2.36	0.72
1:B:43:VAL:O	1:B:44:MET:HB3	1.90	0.72
1:D:301:GLY:H	1:D:335:ARG:HG3	1.55	0.72
1:F:43:VAL:O	1:F:44:MET:CB	2.36	0.72
1:H:43:VAL:O	1:H:44:MET:HB3	1.90	0.72
1:L:34:ILE:HD13	1:L:67:LEU:HD13	1.71	0.72
1:L:301:GLY:H	1:L:335:ARG:HG3	1.55	0.72
1:O:287:ILE:HD11	1:Q:208:ILE:CD1	2.19	0.72
1:P:39:ARG:HE	1:P:66:THR:CA	2.03	0.72
1:P:43:VAL:O	1:P:44:MET:HB3	1.90	0.72
1:Q:61:LYS:O	1:Q:64:ILE:HG22	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:287:ILE:HD11	1:S:208:ILE:CD1	2.19	0.72
1:S:43:VAL:O	1:S:44:MET:HB3	1.89	0.72
1:S:236:LEU:HD13	1:S:251:GLY:HA2	1.72	0.72
1:S:244:ASP:OD1	1:S:246:GLN:HG3	1.90	0.72
1:T:39:ARG:HE	1:T:66:THR:CA	2.03	0.72
1:A:223:PHE:CD1	1:A:259:GLU:HG2	2.24	0.72
1:A:301:GLY:H	1:A:335:ARG:HG3	1.55	0.72
1:G:39:ARG:HE	1:G:66:THR:CA	2.03	0.72
1:G:223:PHE:CD1	1:G:259:GLU:HG2	2.24	0.72
1:I:43:VAL:O	1:I:44:MET:CB	2.36	0.72
1:I:61:LYS:O	1:I:64:ILE:HG22	1.90	0.72
1:Q:236:LEU:HD13	1:Q:251:GLY:HA2	1.72	0.72
1:T:287:ILE:HD11	1:V:208:ILE:CD1	2.19	0.72
1:U:167:GLU:CD	1:W:61:LYS:HE2	2.09	0.72
1:U:301:GLY:H	1:U:335:ARG:HG3	1.55	0.72
1:W:244:ASP:OD1	1:W:246:GLN:HG3	1.90	0.72
1:A:290:ARG:CD	1:C:244:ASP:HB2	2.12	0.72
1:B:34:ILE:HD13	1:B:67:LEU:HD13	1.71	0.72
1:D:244:ASP:OD1	1:D:246:GLN:HG3	1.90	0.72
1:E:223:PHE:CD1	1:E:259:GLU:HG2	2.24	0.72
1:F:142:LEU:HD11	1:F:165:ILE:CD1	2.19	0.72
1:H:39:ARG:HE	1:H:66:THR:CA	2.03	0.72
1:I:39:ARG:HE	1:I:66:THR:CA	2.03	0.72
1:K:223:PHE:CD1	1:K:259:GLU:HG2	2.24	0.72
1:M:301:GLY:H	1:M:335:ARG:HG3	1.55	0.72
1:T:43:VAL:O	1:T:44:MET:HB3	1.90	0.72
1:W:301:GLY:H	1:W:335:ARG:HG3	1.55	0.72
1:B:244:ASP:OD1	1:B:246:GLN:HG3	1.90	0.72
1:D:43:VAL:O	1:D:44:MET:HB3	1.90	0.72
1:E:43:VAL:O	1:E:44:MET:HB3	1.89	0.72
1:G:61:LYS:O	1:G:64:ILE:HG22	1.90	0.72
1:J:37:ARG:HG3	1:J:38:PRO:CD	2.16	0.72
1:L:244:ASP:OD1	1:L:246:GLN:HG3	1.89	0.72
1:N:43:VAL:O	1:N:44:MET:HB3	1.90	0.72
1:N:301:GLY:H	1:N:335:ARG:HG3	1.55	0.72
1:O:236:LEU:HD13	1:O:251:GLY:HA2	1.72	0.72
1:P:61:LYS:O	1:P:64:ILE:HG22	1.90	0.72
1:R:43:VAL:O	1:R:44:MET:HB3	1.90	0.72
1:R:61:LYS:O	1:R:64:ILE:HG22	1.90	0.72
1:S:39:ARG:HE	1:S:66:THR:CA	2.03	0.72
1:U:61:LYS:O	1:U:64:ILE:HG22	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:61:LYS:O	1:W:64:ILE:HG22	1.90	0.72
1:B:301:GLY:H	1:B:335:ARG:HG3	1.55	0.72
1:C:167:GLU:CD	1:E:61:LYS:HE2	2.09	0.72
1:C:223:PHE:CD1	1:C:259:GLU:HG2	2.24	0.72
1:F:223:PHE:CD1	1:F:259:GLU:HG2	2.24	0.72
1:F:301:GLY:H	1:F:335:ARG:HG3	1.55	0.72
1:G:34:ILE:HD13	1:G:67:LEU:HD13	1.71	0.72
1:H:287:ILE:HD11	1:J:208:ILE:CD1	2.19	0.72
1:S:61:LYS:O	1:S:64:ILE:HG22	1.90	0.72
1:U:39:ARG:HE	1:U:66:THR:HA	1.52	0.72
1:U:236:LEU:HD13	1:U:251:GLY:HA2	1.72	0.72
1:B:142:LEU:HD11	1:B:165:ILE:CD1	2.19	0.72
1:C:43:VAL:O	1:C:44:MET:HB3	1.90	0.72
1:E:61:LYS:O	1:E:64:ILE:HG22	1.90	0.72
1:F:43:VAL:O	1:F:44:MET:HB3	1.89	0.72
1:I:208:ILE:CD1	1:I:243:PRO:HD2	2.18	0.72
1:L:39:ARG:HE	1:L:66:THR:CA	2.03	0.72
1:L:61:LYS:O	1:L:64:ILE:HG22	1.90	0.72
1:Q:142:LEU:HD11	1:Q:165:ILE:CD1	2.19	0.72
1:R:167:GLU:CD	1:T:61:LYS:HE2	2.09	0.72
1:S:34:ILE:HD13	1:S:67:LEU:HD13	1.71	0.72
1:U:39:ARG:HE	1:U:66:THR:CA	2.03	0.72
1:V:301:GLY:H	1:V:335:ARG:HG3	1.55	0.72
1:A:34:ILE:CA	1:A:54:VAL:HG11	2.20	0.71
1:A:167:GLU:CD	1:C:61:LYS:HE2	2.09	0.71
1:D:43:VAL:O	1:D:44:MET:CB	2.36	0.71
1:D:142:LEU:HD11	1:D:165:ILE:CD1	2.19	0.71
1:G:37:ARG:HG3	1:G:38:PRO:CD	2.15	0.71
1:I:223:PHE:CD1	1:I:259:GLU:HG2	2.24	0.71
1:L:34:ILE:CA	1:L:54:VAL:HG11	2.20	0.71
1:N:34:ILE:HD13	1:N:67:LEU:HD13	1.71	0.71
1:N:61:LYS:O	1:N:64:ILE:HG22	1.90	0.71
1:N:244:ASP:OD1	1:N:246:GLN:HG3	1.90	0.71
1:O:301:GLY:H	1:O:335:ARG:HG3	1.55	0.71
1:Q:244:ASP:OD1	1:Q:246:GLN:HG3	1.90	0.71
1:T:61:LYS:O	1:T:64:ILE:HG22	1.90	0.71
1:T:301:GLY:H	1:T:335:ARG:HG3	1.55	0.71
1:E:39:ARG:HE	1:E:66:THR:CA	2.03	0.71
1:K:301:GLY:H	1:K:335:ARG:HG3	1.55	0.71
1:M:290:ARG:CD	1:O:244:ASP:HB2	2.12	0.71
1:C:39:ARG:HE	1:C:66:THR:CA	2.03	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:61:LYS:O	1:C:64:ILE:HG22	1.90	0.71
1:E:301:GLY:H	1:E:335:ARG:HG3	1.55	0.71
1:G:43:VAL:O	1:G:44:MET:CB	2.36	0.71
1:J:34:ILE:CA	1:J:54:VAL:HG11	2.20	0.71
1:J:61:LYS:O	1:J:64:ILE:HG22	1.90	0.71
1:J:236:LEU:HD13	1:J:251:GLY:HA2	1.72	0.71
1:J:301:GLY:H	1:J:335:ARG:HG3	1.55	0.71
1:L:236:LEU:HD13	1:L:251:GLY:HA2	1.72	0.71
1:O:43:VAL:O	1:O:44:MET:HB3	1.90	0.71
1:Q:39:ARG:HE	1:Q:66:THR:CA	2.03	0.71
1:T:39:ARG:HE	1:T:66:THR:HA	1.52	0.71
1:V:61:LYS:O	1:V:64:ILE:HG22	1.90	0.71
1:W:34:ILE:HD13	1:W:67:LEU:HD13	1.71	0.71
1:H:244:ASP:OD1	1:H:246:GLN:HG3	1.90	0.71
1:H:290:ARG:CD	1:J:244:ASP:HB2	2.12	0.71
1:H:301:GLY:H	1:H:335:ARG:HG3	1.55	0.71
1:K:39:ARG:HE	1:K:66:THR:CA	2.03	0.71
1:M:142:LEU:HD11	1:M:165:ILE:CD1	2.19	0.71
1:N:236:LEU:HD13	1:N:251:GLY:HA2	1.72	0.71
1:O:244:ASP:OD1	1:O:246:GLN:HG3	1.90	0.71
1:P:34:ILE:CA	1:P:54:VAL:HG11	2.20	0.71
1:S:208:ILE:CD1	1:S:243:PRO:HD2	2.18	0.71
1:T:143:TYR:CD2	1:T:346:LEU:HD13	2.26	0.71
1:V:39:ARG:HE	1:V:66:THR:HA	1.52	0.71
1:V:143:TYR:CD2	1:V:346:LEU:HD13	2.26	0.71
1:A:61:LYS:O	1:A:64:ILE:HG22	1.90	0.71
1:B:39:ARG:HE	1:B:66:THR:CA	2.03	0.71
1:C:143:TYR:CD2	1:C:346:LEU:HD13	2.26	0.71
1:D:61:LYS:O	1:D:64:ILE:HG22	1.90	0.71
1:E:34:ILE:HD13	1:E:67:LEU:HD13	1.71	0.71
1:M:143:TYR:CD2	1:M:346:LEU:HD13	2.26	0.71
1:M:236:LEU:HD13	1:M:251:GLY:HA2	1.72	0.71
1:O:143:TYR:CD2	1:O:346:LEU:HD13	2.26	0.71
1:W:34:ILE:CA	1:W:54:VAL:HG11	2.20	0.71
1:W:236:LEU:HD13	1:W:251:GLY:HA2	1.72	0.71
1:F:39:ARG:HE	1:F:66:THR:CA	2.03	0.71
1:G:43:VAL:O	1:G:44:MET:HB3	1.90	0.71
1:I:244:ASP:OD1	1:I:246:GLN:HG3	1.89	0.71
1:J:43:VAL:O	1:J:44:MET:HB3	1.89	0.71
1:L:39:ARG:HE	1:L:66:THR:HA	1.53	0.71
1:R:34:ILE:CA	1:R:54:VAL:HG11	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:301:GLY:H	1:S:335:ARG:HG3	1.55	0.71
1:T:208:ILE:CD1	1:T:243:PRO:HD2	2.18	0.71
1:U:34:ILE:CA	1:U:54:VAL:HG11	2.20	0.71
1:A:143:TYR:CD2	1:A:346:LEU:HD13	2.26	0.71
1:B:236:LEU:HD13	1:B:251:GLY:HA2	1.72	0.71
1:C:34:ILE:HD13	1:C:67:LEU:HD13	1.71	0.71
1:E:143:TYR:CD2	1:E:346:LEU:HD13	2.26	0.71
1:H:236:LEU:HD13	1:H:251:GLY:HA2	1.72	0.71
1:I:34:ILE:CA	1:I:54:VAL:HG11	2.20	0.71
1:K:143:TYR:CD2	1:K:346:LEU:HD13	2.26	0.71
1:L:43:VAL:O	1:L:44:MET:HB3	1.90	0.71
1:Q:43:VAL:O	1:Q:44:MET:HB3	1.90	0.71
1:R:143:TYR:CD2	1:R:346:LEU:HD13	2.26	0.71
1:U:34:ILE:HD13	1:U:67:LEU:HD13	1.71	0.71
1:A:34:ILE:HD13	1:A:67:LEU:HD13	1.71	0.71
1:B:208:ILE:CD1	1:B:243:PRO:HD2	2.18	0.71
1:C:244:ASP:OD1	1:C:246:GLN:HG3	1.89	0.71
1:G:244:ASP:OD1	1:G:246:GLN:HG3	1.90	0.71
1:I:43:VAL:O	1:I:44:MET:HB3	1.90	0.71
1:N:39:ARG:HE	1:N:66:THR:CA	2.03	0.71
1:P:244:ASP:OD1	1:P:246:GLN:HG3	1.90	0.71
1:R:301:GLY:H	1:R:335:ARG:HG3	1.55	0.71
1:F:61:LYS:O	1:F:64:ILE:HG22	1.90	0.71
1:H:43:VAL:O	1:H:44:MET:CB	2.36	0.71
1:O:39:ARG:HE	1:O:66:THR:CA	2.03	0.71
1:O:142:LEU:HD11	1:O:165:ILE:CD1	2.19	0.71
1:P:34:ILE:HD13	1:P:67:LEU:HD13	1.71	0.71
1:Q:301:GLY:H	1:Q:335:ARG:HG3	1.55	0.71
1:S:290:ARG:CD	1:U:244:ASP:HB2	2.12	0.71
1:T:34:ILE:HD13	1:T:67:LEU:HD13	1.71	0.71
1:V:39:ARG:HE	1:V:66:THR:CA	2.03	0.71
1:V:244:ASP:OD1	1:V:246:GLN:HG3	1.90	0.71
1:B:61:LYS:O	1:B:64:ILE:HG22	1.90	0.71
1:E:34:ILE:CA	1:E:54:VAL:HG11	2.20	0.71
1:F:34:ILE:CA	1:F:54:VAL:HG11	2.20	0.71
1:G:34:ILE:CA	1:G:54:VAL:HG11	2.20	0.71
1:H:208:ILE:CD1	1:H:243:PRO:HD2	2.18	0.71
1:L:290:ARG:CD	1:N:244:ASP:HB2	2.12	0.71
1:P:236:LEU:HD13	1:P:251:GLY:HA2	1.72	0.71
1:Q:34:ILE:CA	1:Q:54:VAL:HG11	2.20	0.71
1:Q:143:TYR:CD2	1:Q:346:LEU:HD13	2.26	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:34:ILE:HD13	1:R:67:LEU:HD13	1.71	0.71
1:B:34:ILE:CA	1:B:54:VAL:HG11	2.20	0.70
1:B:290:ARG:CD	1:D:244:ASP:HB2	2.12	0.70
1:K:34:ILE:CA	1:K:54:VAL:HG11	2.20	0.70
1:M:43:VAL:O	1:M:44:MET:HB3	1.90	0.70
1:O:34:ILE:CA	1:O:54:VAL:HG11	2.20	0.70
1:P:143:TYR:CD2	1:P:346:LEU:HD13	2.26	0.70
1:W:43:VAL:O	1:W:44:MET:HB3	1.90	0.70
1:W:143:TYR:CD2	1:W:346:LEU:HD13	2.26	0.70
1:C:34:ILE:CA	1:C:54:VAL:HG11	2.20	0.70
1:D:39:ARG:HE	1:D:66:THR:CA	2.03	0.70
1:I:301:GLY:H	1:I:335:ARG:HG3	1.55	0.70
1:K:236:LEU:HD13	1:K:251:GLY:HA2	1.72	0.70
1:R:244:ASP:OD1	1:R:246:GLN:HG3	1.90	0.70
1:S:34:ILE:CA	1:S:54:VAL:HG11	2.20	0.70
1:V:34:ILE:HD13	1:V:67:LEU:HD13	1.71	0.70
1:E:37:ARG:HG3	1:E:38:PRO:CD	2.15	0.70
1:F:143:TYR:CD2	1:F:346:LEU:HD13	2.26	0.70
1:H:143:TYR:CD2	1:H:346:LEU:HD13	2.26	0.70
1:J:143:TYR:CD2	1:J:346:LEU:HD13	2.26	0.70
1:K:244:ASP:OD1	1:K:246:GLN:HG3	1.90	0.70
1:M:208:ILE:CD1	1:M:243:PRO:HD2	2.18	0.70
1:N:34:ILE:CA	1:N:54:VAL:HG11	2.20	0.70
1:P:301:GLY:H	1:P:335:ARG:HG3	1.55	0.70
1:R:169:TYR:CE2	1:T:40:HIS:HB3	2.27	0.70
1:W:208:ILE:CD1	1:W:243:PRO:HD2	2.18	0.70
1:B:37:ARG:CG	1:B:38:PRO:HD2	2.20	0.70
1:D:236:LEU:HD13	1:D:251:GLY:HA2	1.72	0.70
1:E:244:ASP:OD1	1:E:246:GLN:HG3	1.90	0.70
1:G:169:TYR:CE2	1:I:40:HIS:HB3	2.27	0.70
1:H:61:LYS:O	1:H:64:ILE:HG22	1.90	0.70
1:I:169:TYR:CE2	1:K:40:HIS:HB3	2.27	0.70
1:K:43:VAL:O	1:K:44:MET:HB3	1.90	0.70
1:M:169:TYR:CE2	1:O:40:HIS:HB3	2.27	0.70
1:M:244:ASP:OD1	1:M:246:GLN:HG3	1.90	0.70
1:N:208:ILE:CD1	1:N:243:PRO:HD2	2.18	0.70
1:P:169:TYR:CE2	1:R:40:HIS:HB3	2.27	0.70
1:R:236:LEU:CD1	1:R:237:GLU:HG2	2.22	0.70
1:T:236:LEU:HD13	1:T:251:GLY:HA2	1.72	0.70
1:U:143:TYR:CD2	1:U:346:LEU:HD13	2.26	0.70
1:B:169:TYR:CE2	1:D:40:HIS:HB3	2.27	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:236:LEU:CD1	1:B:237:GLU:HG2	2.22	0.70
1:E:236:LEU:CD1	1:E:237:GLU:HG2	2.22	0.70
1:F:37:ARG:CG	1:F:38:PRO:HD2	2.20	0.70
1:F:236:LEU:HD13	1:F:251:GLY:HA2	1.72	0.70
1:G:143:TYR:CD2	1:G:346:LEU:HD13	2.26	0.70
1:I:143:TYR:CD2	1:I:346:LEU:HD13	2.26	0.70
1:M:39:ARG:HE	1:M:66:THR:CA	2.03	0.70
1:S:236:LEU:CD1	1:S:237:GLU:HG2	2.22	0.70
1:V:236:LEU:HD13	1:V:251:GLY:HA2	1.72	0.70
1:D:143:TYR:CD2	1:D:346:LEU:HD13	2.26	0.70
1:F:236:LEU:CD1	1:F:237:GLU:HG2	2.22	0.70
1:I:236:LEU:CD1	1:I:237:GLU:HG2	2.22	0.70
1:L:143:TYR:CD2	1:L:346:LEU:HD13	2.26	0.70
1:O:236:LEU:CD1	1:O:237:GLU:HG2	2.22	0.70
1:R:236:LEU:HD13	1:R:251:GLY:HA2	1.72	0.70
1:T:169:TYR:CE2	1:V:40:HIS:HB3	2.27	0.70
1:W:236:LEU:CD1	1:W:237:GLU:HG2	2.22	0.70
1:A:244:ASP:OD1	1:A:246:GLN:HG3	1.90	0.70
1:E:169:TYR:CE2	1:G:40:HIS:HB3	2.27	0.70
1:K:169:TYR:CE2	1:M:40:HIS:HB3	2.27	0.70
1:K:236:LEU:CD1	1:K:237:GLU:HG2	2.22	0.70
1:A:43:VAL:O	1:A:44:MET:HB3	1.90	0.70
1:C:208:ILE:CD1	1:C:243:PRO:HD2	2.18	0.70
1:D:34:ILE:CA	1:D:54:VAL:HG11	2.20	0.70
1:G:301:GLY:H	1:G:335:ARG:HG3	1.55	0.70
1:R:37:ARG:CG	1:R:38:PRO:HD2	2.20	0.70
1:S:143:TYR:CD2	1:S:346:LEU:HD13	2.26	0.70
1:V:34:ILE:CA	1:V:54:VAL:HG11	2.20	0.70
1:V:236:LEU:CD1	1:V:237:GLU:HG2	2.22	0.70
1:C:143:TYR:CE1	1:E:45:VAL:HG21	2.27	0.70
1:C:236:LEU:CD1	1:C:237:GLU:HG2	2.22	0.70
1:D:169:TYR:CE2	1:F:40:HIS:HB3	2.27	0.70
1:H:34:ILE:CA	1:H:54:VAL:HG11	2.20	0.70
1:J:143:TYR:CE1	1:L:45:VAL:HG21	2.27	0.70
1:J:236:LEU:CD1	1:J:237:GLU:HG2	2.22	0.70
1:M:34:ILE:CA	1:M:54:VAL:HG11	2.20	0.70
1:M:37:ARG:CG	1:M:38:PRO:HD2	2.20	0.70
1:N:169:TYR:CE2	1:P:40:HIS:HB3	2.27	0.70
1:N:236:LEU:CD1	1:N:237:GLU:HG2	2.22	0.70
1:P:143:TYR:CE1	1:R:45:VAL:HG21	2.27	0.70
1:T:244:ASP:OD1	1:T:246:GLN:HG3	1.89	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:43:VAL:O	1:U:44:MET:HB3	1.90	0.70
1:U:143:TYR:CE1	1:W:45:VAL:HG21	2.27	0.70
1:A:34:ILE:HG22	1:A:35:VAL:N	2.07	0.70
1:A:236:LEU:HD13	1:A:251:GLY:HA2	1.72	0.70
1:A:236:LEU:CD1	1:A:237:GLU:HG2	2.22	0.70
1:B:143:TYR:CD2	1:B:346:LEU:HD13	2.26	0.70
1:H:143:TYR:CE1	1:J:45:VAL:HG21	2.27	0.70
1:M:34:ILE:HG22	1:M:35:VAL:N	2.07	0.70
1:P:34:ILE:HG22	1:P:35:VAL:N	2.07	0.70
1:S:169:TYR:CE2	1:U:40:HIS:HB3	2.27	0.70
1:U:169:TYR:CE2	1:W:40:HIS:HB3	2.27	0.70
1:B:143:TYR:CE1	1:D:45:VAL:HG21	2.27	0.69
1:G:37:ARG:CG	1:G:38:PRO:HD2	2.20	0.69
1:I:34:ILE:HG22	1:I:35:VAL:N	2.07	0.69
1:L:236:LEU:CD1	1:L:237:GLU:HG2	2.22	0.69
1:Q:37:ARG:CG	1:Q:38:PRO:HD2	2.20	0.69
1:Q:169:TYR:CE2	1:S:40:HIS:HB3	2.27	0.69
1:R:143:TYR:CE1	1:T:45:VAL:HG21	2.27	0.69
1:S:143:TYR:CE1	1:U:45:VAL:HG21	2.27	0.69
1:T:34:ILE:CA	1:T:54:VAL:HG11	2.20	0.69
1:A:169:TYR:CE2	1:C:40:HIS:HB3	2.27	0.69
1:B:34:ILE:HG22	1:B:35:VAL:N	2.07	0.69
1:D:143:TYR:CE1	1:F:45:VAL:HG21	2.27	0.69
1:E:34:ILE:HG22	1:E:35:VAL:N	2.07	0.69
1:L:34:ILE:HG22	1:L:35:VAL:N	2.07	0.69
1:M:143:TYR:CE1	1:O:45:VAL:HG21	2.27	0.69
1:N:143:TYR:CD2	1:N:346:LEU:HD13	2.26	0.69
1:N:143:TYR:CE1	1:P:45:VAL:HG21	2.27	0.69
1:P:236:LEU:CD1	1:P:237:GLU:HG2	2.22	0.69
1:E:143:TYR:CE1	1:G:45:VAL:HG21	2.27	0.69
1:H:50:LYS:HG3	1:H:53:TYR:CE2	2.28	0.69
1:I:236:LEU:HD13	1:I:251:GLY:HA2	1.72	0.69
1:L:169:TYR:CE2	1:N:40:HIS:HB3	2.27	0.69
1:T:34:ILE:HG22	1:T:35:VAL:N	2.07	0.69
1:T:236:LEU:CD1	1:T:237:GLU:HG2	2.22	0.69
1:U:34:ILE:HG22	1:U:35:VAL:N	2.07	0.69
1:F:143:TYR:CE1	1:H:45:VAL:HG21	2.27	0.69
1:G:58:ALA:CB	1:G:65:LEU:HD22	2.23	0.69
1:G:143:TYR:CE1	1:I:45:VAL:HG21	2.27	0.69
1:H:58:ALA:CB	1:H:65:LEU:HD22	2.23	0.69
1:H:236:LEU:CD1	1:H:237:GLU:HG2	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:50:LYS:HG3	1:J:53:TYR:CE2	2.28	0.69
1:Q:34:ILE:HG22	1:Q:35:VAL:N	2.07	0.69
1:Q:143:TYR:CE1	1:S:45:VAL:HG21	2.27	0.69
1:S:58:ALA:CB	1:S:65:LEU:HD22	2.23	0.69
1:T:143:TYR:CE1	1:V:45:VAL:HG21	2.27	0.69
1:U:50:LYS:HG3	1:U:53:TYR:CE2	2.28	0.69
1:W:50:LYS:HG3	1:W:53:TYR:CE2	2.28	0.69
1:E:290:ARG:CD	1:G:244:ASP:HB2	2.12	0.69
1:F:50:LYS:HG3	1:F:53:TYR:CE2	2.28	0.69
1:I:143:TYR:CE1	1:K:45:VAL:HG21	2.27	0.69
1:M:236:LEU:CD1	1:M:237:GLU:HG2	2.22	0.69
1:R:58:ALA:CB	1:R:65:LEU:HD22	2.23	0.69
1:S:34:ILE:HG22	1:S:35:VAL:N	2.07	0.69
1:S:50:LYS:HG3	1:S:53:TYR:CE2	2.28	0.69
1:A:50:LYS:HG3	1:A:53:TYR:CE2	2.28	0.69
1:D:50:LYS:HG3	1:D:53:TYR:CE2	2.28	0.69
1:F:169:TYR:CE2	1:H:40:HIS:HB3	2.27	0.69
1:G:236:LEU:HD13	1:G:251:GLY:HA2	1.72	0.69
1:L:50:LYS:HG3	1:L:53:TYR:CE2	2.28	0.69
1:N:50:LYS:HG3	1:N:53:TYR:CE2	2.28	0.69
1:N:58:ALA:CB	1:N:65:LEU:HD22	2.23	0.69
1:O:143:TYR:CE1	1:Q:45:VAL:HG21	2.27	0.69
1:O:169:TYR:CE2	1:Q:40:HIS:HB3	2.27	0.69
1:A:58:ALA:CB	1:A:65:LEU:HD22	2.23	0.69
1:C:50:LYS:HG3	1:C:53:TYR:CE2	2.28	0.69
1:Q:50:LYS:HG3	1:Q:53:TYR:CE2	2.28	0.69
1:A:143:TYR:CE1	1:C:45:VAL:HG21	2.27	0.69
1:B:50:LYS:HG3	1:B:53:TYR:CE2	2.28	0.69
1:B:58:ALA:CB	1:B:65:LEU:HD22	2.23	0.69
1:C:58:ALA:CB	1:C:65:LEU:HD22	2.23	0.69
1:C:169:TYR:CE2	1:E:40:HIS:HB3	2.27	0.69
1:C:236:LEU:HD13	1:C:251:GLY:HA2	1.72	0.69
1:D:236:LEU:CD1	1:D:237:GLU:HG2	2.22	0.69
1:E:50:LYS:HG3	1:E:53:TYR:CE2	2.28	0.69
1:E:236:LEU:HD13	1:E:251:GLY:HA2	1.72	0.69
1:F:34:ILE:HG22	1:F:35:VAL:N	2.07	0.69
1:F:301:GLY:N	1:F:335:ARG:HG3	2.08	0.69
1:G:50:LYS:HG3	1:G:53:TYR:CE2	2.28	0.69
1:G:236:LEU:CD1	1:G:237:GLU:HG2	2.22	0.69
1:J:169:TYR:CE2	1:L:40:HIS:HB3	2.27	0.69
1:L:58:ALA:CB	1:L:65:LEU:HD22	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:143:TYR:CE1	1:N:45:VAL:HG21	2.27	0.69
1:L:208:ILE:HD11	1:L:243:PRO:CG	2.23	0.69
1:M:58:ALA:CB	1:M:65:LEU:HD22	2.23	0.69
1:N:208:ILE:HD11	1:N:243:PRO:CG	2.23	0.69
1:O:50:LYS:HG3	1:O:53:TYR:CE2	2.28	0.69
1:P:50:LYS:HG3	1:P:53:TYR:CE2	2.28	0.69
1:P:290:ARG:CD	1:R:244:ASP:HB2	2.13	0.69
1:Q:236:LEU:CD1	1:Q:237:GLU:HG2	2.22	0.69
1:R:34:ILE:HG22	1:R:35:VAL:N	2.07	0.69
1:R:50:LYS:HG3	1:R:53:TYR:CE2	2.28	0.69
1:T:50:LYS:HG3	1:T:53:TYR:CE2	2.28	0.69
1:U:58:ALA:CB	1:U:65:LEU:HD22	2.23	0.69
1:U:301:GLY:N	1:U:335:ARG:HG3	2.08	0.69
1:V:58:ALA:CB	1:V:65:LEU:HD22	2.23	0.69
1:A:301:GLY:N	1:A:335:ARG:HG3	2.08	0.69
1:C:208:ILE:HD11	1:C:243:PRO:CG	2.23	0.69
1:E:58:ALA:CB	1:E:65:LEU:HD22	2.23	0.69
1:G:34:ILE:HG22	1:G:35:VAL:N	2.07	0.69
1:J:34:ILE:HG22	1:J:35:VAL:N	2.07	0.69
1:K:50:LYS:HG3	1:K:53:TYR:CE2	2.28	0.69
1:M:50:LYS:HG3	1:M:53:TYR:CE2	2.28	0.69
1:N:34:ILE:HG22	1:N:35:VAL:N	2.07	0.69
1:P:208:ILE:HD11	1:P:243:PRO:CG	2.23	0.69
1:T:301:GLY:N	1:T:335:ARG:HG3	2.08	0.69
1:V:34:ILE:HG22	1:V:35:VAL:N	2.07	0.69
1:V:301:GLY:N	1:V:335:ARG:HG3	2.08	0.69
1:W:58:ALA:CB	1:W:65:LEU:HD22	2.23	0.69
1:D:22:ALA:HB1	1:D:348:SER:HB3	1.75	0.69
1:D:58:ALA:CB	1:D:65:LEU:HD22	2.23	0.69
1:E:208:ILE:HD11	1:E:243:PRO:CG	2.23	0.69
1:H:22:ALA:HB1	1:H:348:SER:HB3	1.75	0.69
1:I:50:LYS:HG3	1:I:53:TYR:CE2	2.28	0.69
1:J:58:ALA:CB	1:J:65:LEU:HD22	2.23	0.69
1:K:34:ILE:HG22	1:K:35:VAL:N	2.07	0.69
1:O:22:ALA:HB1	1:O:348:SER:HB3	1.75	0.69
1:O:301:GLY:N	1:O:335:ARG:HG3	2.08	0.69
1:Q:301:GLY:N	1:Q:335:ARG:HG3	2.08	0.69
1:R:301:GLY:N	1:R:335:ARG:HG3	2.08	0.69
1:V:50:LYS:HG3	1:V:53:TYR:CE2	2.28	0.69
1:W:34:ILE:HG22	1:W:35:VAL:N	2.07	0.69
1:B:7:ALA:HB1	1:B:356:TRP:CH2	2.29	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:208:ILE:HD11	1:J:243:PRO:CG	2.23	0.68
1:K:7:ALA:HB1	1:K:356:TRP:CH2	2.29	0.68
1:K:143:TYR:CE1	1:M:45:VAL:HG21	2.27	0.68
1:M:301:GLY:N	1:M:335:ARG:HG3	2.08	0.68
1:N:22:ALA:HB1	1:N:348:SER:HB3	1.75	0.68
1:U:236:LEU:CD1	1:U:237:GLU:HG2	2.22	0.68
1:A:208:ILE:HD11	1:A:243:PRO:CG	2.23	0.68
1:B:208:ILE:HD11	1:B:243:PRO:CG	2.23	0.68
1:C:301:GLY:N	1:C:335:ARG:HG3	2.08	0.68
1:G:208:ILE:HD11	1:G:243:PRO:CG	2.23	0.68
1:H:169:TYR:CE2	1:J:40:HIS:HB3	2.27	0.68
1:K:58:ALA:CB	1:K:65:LEU:HD22	2.23	0.68
1:L:301:GLY:N	1:L:335:ARG:HG3	2.08	0.68
1:M:7:ALA:HB1	1:M:356:TRP:CH2	2.29	0.68
1:P:301:GLY:N	1:P:335:ARG:HG3	2.08	0.68
1:Q:7:ALA:HB1	1:Q:356:TRP:CH2	2.29	0.68
1:S:22:ALA:HB1	1:S:348:SER:HB3	1.75	0.68
1:T:7:ALA:HB1	1:T:356:TRP:CH2	2.29	0.68
1:U:37:ARG:CG	1:U:38:PRO:HD2	2.20	0.68
1:A:173:HIS:CE1	1:B:268:GLY:CA	2.77	0.68
1:C:22:ALA:HB1	1:C:348:SER:HB3	1.75	0.68
1:C:34:ILE:HG22	1:C:35:VAL:N	2.07	0.68
1:D:7:ALA:HB1	1:D:356:TRP:CH2	2.29	0.68
1:H:34:ILE:HG22	1:H:35:VAL:N	2.07	0.68
1:I:7:ALA:HB1	1:I:356:TRP:CH2	2.28	0.68
1:I:58:ALA:CB	1:I:65:LEU:HD22	2.23	0.68
1:J:37:ARG:CG	1:J:38:PRO:HD2	2.20	0.68
1:O:34:ILE:HG22	1:O:35:VAL:N	2.07	0.68
1:O:58:ALA:CB	1:O:65:LEU:HD22	2.23	0.68
1:T:58:ALA:CB	1:T:65:LEU:HD22	2.23	0.68
1:V:7:ALA:HB1	1:V:356:TRP:CH2	2.29	0.68
1:A:22:ALA:HB1	1:A:348:SER:HB3	1.75	0.68
1:E:173:HIS:CE1	1:F:268:GLY:CA	2.77	0.68
1:L:173:HIS:CE1	1:M:268:GLY:CA	2.77	0.68
1:N:173:HIS:CE1	1:O:268:GLY:CA	2.77	0.68
1:P:58:ALA:CB	1:P:65:LEU:HD22	2.23	0.68
1:R:173:HIS:CE1	1:S:268:GLY:CA	2.77	0.68
1:S:301:GLY:N	1:S:335:ARG:HG3	2.08	0.68
1:S:362:TYR:CE1	1:S:367:PRO:HB3	2.28	0.68
1:U:22:ALA:HB1	1:U:348:SER:HB3	1.75	0.68
1:U:173:HIS:CE1	1:V:268:GLY:CA	2.77	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:ILE:CD1	1:A:243:PRO:HD2	2.18	0.68
1:F:58:ALA:CB	1:F:65:LEU:HD22	2.23	0.68
1:H:173:HIS:CE1	1:I:268:GLY:CA	2.77	0.68
1:J:301:GLY:N	1:J:335:ARG:HG3	2.08	0.68
1:K:301:GLY:N	1:K:335:ARG:HG3	2.08	0.68
1:L:22:ALA:HB1	1:L:348:SER:HB3	1.75	0.68
1:O:7:ALA:HB1	1:O:356:TRP:CH2	2.29	0.68
1:Q:208:ILE:CD1	1:Q:243:PRO:HD2	2.18	0.68
1:Q:362:TYR:CE1	1:Q:367:PRO:HB3	2.28	0.68
1:R:7:ALA:HB1	1:R:356:TRP:CH2	2.29	0.68
1:R:22:ALA:HB1	1:R:348:SER:HB3	1.75	0.68
1:R:208:ILE:HD11	1:R:243:PRO:CG	2.23	0.68
1:B:301:GLY:N	1:B:335:ARG:HG3	2.08	0.68
1:D:208:ILE:HD11	1:D:243:PRO:CG	2.23	0.68
1:D:362:TYR:O	1:D:366:GLY:HA2	1.94	0.68
1:G:362:TYR:CE1	1:G:367:PRO:HB3	2.28	0.68
1:G:362:TYR:O	1:G:366:GLY:HA2	1.94	0.68
1:I:362:TYR:CE1	1:I:367:PRO:HB3	2.28	0.68
1:K:290:ARG:CD	1:M:244:ASP:HB2	2.12	0.68
1:K:362:TYR:O	1:K:366:GLY:HA2	1.94	0.68
1:Q:58:ALA:CB	1:Q:65:LEU:HD22	2.23	0.68
1:F:362:TYR:O	1:F:366:GLY:HA2	1.94	0.68
1:H:208:ILE:HD11	1:H:243:PRO:CG	2.23	0.68
1:T:22:ALA:HB1	1:T:348:SER:HB3	1.75	0.68
1:U:208:ILE:HD11	1:U:243:PRO:CG	2.23	0.68
1:V:362:TYR:O	1:V:366:GLY:HA2	1.94	0.68
1:W:208:ILE:HD11	1:W:243:PRO:CG	2.23	0.68
1:B:22:ALA:HB1	1:B:348:SER:HB3	1.75	0.68
1:E:362:TYR:CE1	1:E:367:PRO:HB3	2.28	0.68
1:F:7:ALA:HB1	1:F:356:TRP:CH2	2.29	0.68
1:F:208:ILE:CD1	1:F:243:PRO:HD2	2.18	0.68
1:I:22:ALA:HB1	1:I:348:SER:HB3	1.75	0.68
1:I:301:GLY:N	1:I:335:ARG:HG3	2.08	0.68
1:I:362:TYR:O	1:I:366:GLY:HA2	1.94	0.68
1:J:22:ALA:HB1	1:J:348:SER:HB3	1.75	0.68
1:J:173:HIS:CE1	1:K:268:GLY:CA	2.77	0.68
1:J:362:TYR:O	1:J:366:GLY:HA2	1.94	0.68
1:M:362:TYR:O	1:M:366:GLY:HA2	1.94	0.68
1:O:208:ILE:HD11	1:O:243:PRO:CG	2.23	0.68
1:O:362:TYR:CE1	1:O:367:PRO:HB3	2.28	0.68
1:P:38:PRO:CG	1:P:49:GLN:HE22	2.07	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:208:ILE:HD11	1:Q:243:PRO:CG	2.23	0.68
1:R:38:PRO:CG	1:R:49:GLN:HE22	2.07	0.68
1:T:236:LEU:HD22	1:T:252:ASN:N	2.09	0.68
1:U:7:ALA:HB1	1:U:356:TRP:CH2	2.29	0.68
1:W:7:ALA:HB1	1:W:356:TRP:CH2	2.29	0.68
1:W:362:TYR:O	1:W:366:GLY:HA2	1.94	0.68
1:B:110:LEU:HD12	1:B:177:ARG:NH1	2.09	0.68
1:B:362:TYR:CE1	1:B:367:PRO:HB3	2.28	0.68
1:C:236:LEU:HD22	1:C:252:ASN:N	2.09	0.68
1:D:110:LEU:HD12	1:D:177:ARG:NH1	2.09	0.68
1:F:208:ILE:HD11	1:F:243:PRO:CG	2.23	0.68
1:G:22:ALA:HB1	1:G:348:SER:HB3	1.75	0.68
1:I:208:ILE:HD11	1:I:243:PRO:CG	2.23	0.68
1:K:236:LEU:HD22	1:K:252:ASN:N	2.09	0.68
1:M:22:ALA:HB1	1:M:348:SER:HB3	1.75	0.68
1:M:236:LEU:HD22	1:M:252:ASN:N	2.09	0.68
1:P:173:HIS:CE1	1:Q:268:GLY:CA	2.77	0.68
1:R:362:TYR:O	1:R:366:GLY:HA2	1.94	0.68
1:S:7:ALA:HB1	1:S:356:TRP:CH2	2.29	0.68
1:S:58:ALA:HB1	1:S:65:LEU:CD2	2.24	0.68
1:U:362:TYR:O	1:U:366:GLY:HA2	1.94	0.68
1:B:362:TYR:O	1:B:366:GLY:HA2	1.94	0.68
1:F:173:HIS:CE1	1:G:268:GLY:CA	2.77	0.68
1:G:7:ALA:HB1	1:G:356:TRP:CH2	2.29	0.68
1:M:208:ILE:HD11	1:M:243:PRO:CG	2.23	0.68
1:N:38:PRO:CG	1:N:49:GLN:HE22	2.07	0.68
1:O:58:ALA:HB1	1:O:65:LEU:CD2	2.25	0.68
1:Q:58:ALA:HB1	1:Q:65:LEU:CD2	2.24	0.68
1:R:236:LEU:HD22	1:R:252:ASN:N	2.09	0.68
1:S:208:ILE:HD11	1:S:243:PRO:CG	2.23	0.68
1:T:38:PRO:CG	1:T:49:GLN:HE22	2.07	0.68
1:T:362:TYR:O	1:T:366:GLY:HA2	1.94	0.68
1:U:362:TYR:CE1	1:U:367:PRO:HB3	2.28	0.68
1:V:208:ILE:HD11	1:V:243:PRO:CG	2.23	0.68
1:V:236:LEU:HD22	1:V:252:ASN:N	2.09	0.68
1:W:22:ALA:HB1	1:W:348:SER:HB3	1.75	0.68
1:C:110:LEU:HD12	1:C:177:ARG:NH1	2.09	0.67
1:C:362:TYR:O	1:C:366:GLY:HA2	1.94	0.67
1:D:38:PRO:CG	1:D:49:GLN:HE22	2.07	0.67
1:E:236:LEU:HD22	1:E:252:ASN:N	2.09	0.67
1:E:301:GLY:N	1:E:335:ARG:HG3	2.08	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:110:LEU:HD12	1:F:177:ARG:NH1	2.09	0.67
1:L:38:PRO:CG	1:L:49:GLN:HE22	2.07	0.67
1:M:58:ALA:HB1	1:M:65:LEU:CD2	2.25	0.67
1:O:236:LEU:HD22	1:O:252:ASN:N	2.09	0.67
1:P:7:ALA:HB1	1:P:356:TRP:CH2	2.29	0.67
1:V:58:ALA:HB1	1:V:65:LEU:CD2	2.24	0.67
1:W:301:GLY:N	1:W:335:ARG:HG3	2.08	0.67
1:B:38:PRO:CG	1:B:49:GLN:HE22	2.07	0.67
1:B:236:LEU:HD22	1:B:252:ASN:N	2.09	0.67
1:C:362:TYR:CE1	1:C:367:PRO:HB3	2.28	0.67
1:F:58:ALA:HB1	1:F:65:LEU:CD2	2.24	0.67
1:F:370:VAL:HG13	1:F:370:VAL:O	1.95	0.67
1:G:143:TYR:O	1:G:143:TYR:CD1	2.48	0.67
1:G:208:ILE:CD1	1:G:243:PRO:HD2	2.18	0.67
1:K:58:ALA:HB1	1:K:65:LEU:CD2	2.25	0.67
1:M:38:PRO:CG	1:M:49:GLN:HE22	2.07	0.67
1:N:362:TYR:O	1:N:366:GLY:HA2	1.94	0.67
1:P:37:ARG:CG	1:P:38:PRO:HD2	2.20	0.67
1:P:362:TYR:O	1:P:366:GLY:HA2	1.94	0.67
1:S:34:ILE:HD13	1:S:67:LEU:HD22	1.77	0.67
1:T:104:LEU:HB2	1:T:356:TRP:CZ3	2.30	0.67
1:T:173:HIS:CE1	1:U:268:GLY:CA	2.77	0.67
1:U:34:ILE:HD13	1:U:67:LEU:HD22	1.76	0.67
1:U:58:ALA:HB1	1:U:65:LEU:CD2	2.25	0.67
1:W:110:LEU:HD12	1:W:177:ARG:NH1	2.09	0.67
1:A:7:ALA:HB1	1:A:356:TRP:CH2	2.29	0.67
1:A:236:LEU:HD22	1:A:252:ASN:N	2.09	0.67
1:B:173:HIS:CE1	1:C:268:GLY:CA	2.77	0.67
1:D:34:ILE:HD13	1:D:67:LEU:HD22	1.77	0.67
1:D:34:ILE:HG22	1:D:35:VAL:N	2.07	0.67
1:D:362:TYR:CE1	1:D:367:PRO:HB3	2.28	0.67
1:H:58:ALA:HB1	1:H:65:LEU:CD2	2.25	0.67
1:K:37:ARG:CG	1:K:38:PRO:HD2	2.20	0.67
1:N:301:GLY:N	1:N:335:ARG:HG3	2.08	0.67
1:O:362:TYR:O	1:O:366:GLY:HA2	1.94	0.67
1:P:104:LEU:HB2	1:P:356:TRP:CZ3	2.30	0.67
1:Q:22:ALA:HB1	1:Q:348:SER:HB3	1.75	0.67
1:R:104:LEU:HB2	1:R:356:TRP:CZ3	2.30	0.67
1:V:37:ARG:CG	1:V:38:PRO:HD2	2.20	0.67
1:V:104:LEU:HB2	1:V:356:TRP:CZ3	2.30	0.67
1:V:143:TYR:O	1:V:143:TYR:CD1	2.48	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:143:TYR:O	1:C:143:TYR:CD1	2.48	0.67
1:C:173:HIS:CE1	1:D:268:GLY:CA	2.77	0.67
1:D:58:ALA:HB1	1:D:65:LEU:CD2	2.25	0.67
1:D:236:LEU:HD22	1:D:252:ASN:N	2.09	0.67
1:D:301:GLY:N	1:D:335:ARG:HG3	2.08	0.67
1:G:110:LEU:HD12	1:G:177:ARG:NH1	2.09	0.67
1:G:301:GLY:N	1:G:335:ARG:HG3	2.08	0.67
1:H:301:GLY:N	1:H:335:ARG:HG3	2.08	0.67
1:H:362:TYR:O	1:H:366:GLY:HA2	1.94	0.67
1:I:58:ALA:HB1	1:I:65:LEU:CD2	2.24	0.67
1:I:173:HIS:CE1	1:J:268:GLY:CA	2.77	0.67
1:J:58:ALA:HB1	1:J:65:LEU:CD2	2.25	0.67
1:J:362:TYR:CE1	1:J:367:PRO:HB3	2.28	0.67
1:O:173:HIS:CE1	1:P:268:GLY:CA	2.77	0.67
1:Q:370:VAL:HG13	1:Q:370:VAL:O	1.95	0.67
1:R:110:LEU:HD12	1:R:177:ARG:NH1	2.09	0.67
1:R:143:TYR:O	1:R:143:TYR:CD1	2.48	0.67
1:S:362:TYR:O	1:S:366:GLY:HA2	1.94	0.67
1:S:370:VAL:O	1:S:370:VAL:HG13	1.95	0.67
1:A:38:PRO:CG	1:A:49:GLN:HE22	2.07	0.67
1:A:362:TYR:O	1:A:366:GLY:HA2	1.94	0.67
1:B:58:ALA:HB1	1:B:65:LEU:CD2	2.24	0.67
1:C:7:ALA:HB1	1:C:356:TRP:CH2	2.29	0.67
1:F:34:ILE:HD13	1:F:67:LEU:HD22	1.77	0.67
1:H:7:ALA:HB1	1:H:356:TRP:CH2	2.28	0.67
1:I:236:LEU:HD22	1:I:252:ASN:N	2.09	0.67
1:J:34:ILE:HD13	1:J:67:LEU:HD22	1.77	0.67
1:K:22:ALA:HB1	1:K:348:SER:HB3	1.75	0.67
1:K:38:PRO:CG	1:K:49:GLN:HE22	2.07	0.67
1:K:110:LEU:HD12	1:K:177:ARG:NH1	2.09	0.67
1:K:143:TYR:O	1:K:143:TYR:CD1	2.48	0.67
1:K:173:HIS:CE1	1:L:268:GLY:CA	2.77	0.67
1:M:173:HIS:CE1	1:N:268:GLY:CA	2.77	0.67
1:N:104:LEU:HB2	1:N:356:TRP:CZ3	2.30	0.67
1:N:110:LEU:HD12	1:N:177:ARG:NH1	2.09	0.67
1:Q:173:HIS:CE1	1:R:268:GLY:CA	2.77	0.67
1:Q:362:TYR:O	1:Q:366:GLY:HA2	1.94	0.67
1:S:173:HIS:CE1	1:T:268:GLY:CA	2.77	0.67
1:T:110:LEU:HD12	1:T:177:ARG:NH1	2.09	0.67
1:T:208:ILE:HD11	1:T:243:PRO:CG	2.23	0.67
1:U:110:LEU:HD12	1:U:177:ARG:NH1	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:38:PRO:CG	1:V:49:GLN:HE22	2.07	0.67
1:A:104:LEU:HB2	1:A:356:TRP:CZ3	2.30	0.67
1:D:37:ARG:CG	1:D:38:PRO:HD2	2.20	0.67
1:D:370:VAL:HG13	1:D:370:VAL:O	1.95	0.67
1:E:7:ALA:HB1	1:E:356:TRP:CH2	2.29	0.67
1:E:37:ARG:CG	1:E:38:PRO:HD2	2.20	0.67
1:F:22:ALA:HB1	1:F:348:SER:HB3	1.75	0.67
1:H:34:ILE:HD13	1:H:67:LEU:HD22	1.77	0.67
1:H:110:LEU:HD12	1:H:177:ARG:NH1	2.09	0.67
1:H:362:TYR:CE1	1:H:367:PRO:HB3	2.28	0.67
1:H:370:VAL:O	1:H:370:VAL:HG13	1.95	0.67
1:J:38:PRO:CG	1:J:49:GLN:HE22	2.07	0.67
1:K:208:ILE:HD11	1:K:243:PRO:CG	2.23	0.67
1:M:110:LEU:HD12	1:M:177:ARG:NH1	2.09	0.67
1:N:7:ALA:HB1	1:N:356:TRP:CH2	2.29	0.67
1:O:34:ILE:HD13	1:O:67:LEU:HD22	1.77	0.67
1:P:236:LEU:HD22	1:P:252:ASN:N	2.09	0.67
1:T:58:ALA:HB1	1:T:65:LEU:CD2	2.25	0.67
1:V:173:HIS:CE1	1:W:268:GLY:CA	2.77	0.67
1:W:34:ILE:HD13	1:W:67:LEU:HD22	1.77	0.67
1:W:58:ALA:HB1	1:W:65:LEU:CD2	2.25	0.67
1:B:34:ILE:HD13	1:B:67:LEU:HD22	1.77	0.67
1:C:38:PRO:CG	1:C:49:GLN:HE22	2.07	0.67
1:E:110:LEU:HD12	1:E:177:ARG:NH1	2.09	0.67
1:G:173:HIS:CE1	1:H:268:GLY:CA	2.77	0.67
1:I:110:LEU:HD12	1:I:177:ARG:NH1	2.09	0.67
1:O:38:PRO:CG	1:O:49:GLN:HE22	2.07	0.67
1:P:110:LEU:HD12	1:P:177:ARG:NH1	2.09	0.67
1:U:38:PRO:CG	1:U:49:GLN:HE22	2.07	0.67
1:V:110:LEU:HD12	1:V:177:ARG:NH1	2.09	0.67
1:W:362:TYR:CE1	1:W:367:PRO:HB3	2.28	0.67
1:D:173:HIS:CE1	1:E:268:GLY:CA	2.77	0.67
1:F:236:LEU:HD22	1:F:252:ASN:N	2.09	0.67
1:L:34:ILE:HD13	1:L:67:LEU:HD22	1.77	0.67
1:L:236:LEU:HD22	1:L:252:ASN:N	2.09	0.67
1:L:362:TYR:CE1	1:L:367:PRO:HB3	2.28	0.67
1:Q:34:ILE:HD13	1:Q:67:LEU:HD22	1.77	0.67
1:R:208:ILE:CD1	1:R:243:PRO:HD2	2.18	0.67
1:S:110:LEU:HD12	1:S:177:ARG:NH1	2.09	0.67
1:S:236:LEU:HD22	1:S:252:ASN:N	2.09	0.67
1:V:208:ILE:CD1	1:V:243:PRO:HD2	2.18	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:104:LEU:HB2	1:W:356:TRP:CZ3	2.30	0.67
1:B:104:LEU:HB2	1:B:356:TRP:CZ3	2.30	0.67
1:C:104:LEU:HB2	1:C:356:TRP:CZ3	2.30	0.67
1:F:38:PRO:CG	1:F:49:GLN:HE22	2.07	0.67
1:H:39:ARG:NE	1:H:66:THR:HB	2.09	0.67
1:L:58:ALA:HB1	1:L:65:LEU:CD2	2.24	0.67
1:L:104:LEU:HB2	1:L:356:TRP:CZ3	2.30	0.67
1:M:362:TYR:CE1	1:M:367:PRO:HB3	2.28	0.67
1:N:143:TYR:O	1:N:143:TYR:CD1	2.48	0.67
1:U:104:LEU:HB2	1:U:356:TRP:CZ3	2.30	0.67
1:A:58:ALA:HB1	1:A:65:LEU:CD2	2.24	0.67
1:A:110:LEU:HD12	1:A:177:ARG:NH1	2.09	0.67
1:A:143:TYR:O	1:A:143:TYR:CD1	2.48	0.67
1:A:362:TYR:CE1	1:A:367:PRO:HB3	2.28	0.67
1:F:362:TYR:CE1	1:F:367:PRO:HB3	2.28	0.67
1:H:236:LEU:HD22	1:H:252:ASN:N	2.09	0.67
1:L:7:ALA:HB1	1:L:356:TRP:CH2	2.29	0.67
1:P:22:ALA:HB1	1:P:348:SER:HB3	1.75	0.67
1:Q:236:LEU:HD22	1:Q:252:ASN:N	2.09	0.67
1:S:38:PRO:CG	1:S:49:GLN:HE22	2.07	0.67
1:E:22:ALA:HB1	1:E:348:SER:HB3	1.75	0.66
1:E:104:LEU:HB2	1:E:356:TRP:CZ3	2.30	0.66
1:G:58:ALA:HB1	1:G:65:LEU:CD2	2.25	0.66
1:L:208:ILE:CD1	1:L:243:PRO:HD2	2.18	0.66
1:M:143:TYR:O	1:M:143:TYR:CD1	2.48	0.66
1:N:236:LEU:HD22	1:N:252:ASN:N	2.09	0.66
1:O:110:LEU:HD12	1:O:177:ARG:NH1	2.09	0.66
1:O:370:VAL:HG13	1:O:370:VAL:O	1.95	0.66
1:P:143:TYR:O	1:P:143:TYR:CD1	2.48	0.66
1:Q:104:LEU:HB2	1:Q:356:TRP:CZ3	2.30	0.66
1:S:104:LEU:HB2	1:S:356:TRP:CZ3	2.30	0.66
1:W:38:PRO:CG	1:W:49:GLN:HE22	2.07	0.66
1:B:34:ILE:HA	1:B:68:LYS:O	1.96	0.66
1:B:300:SER:CA	1:B:335:ARG:HG3	2.25	0.66
1:E:38:PRO:CG	1:E:49:GLN:HE22	2.07	0.66
1:I:34:ILE:HA	1:I:68:LYS:O	1.96	0.66
1:L:362:TYR:O	1:L:366:GLY:HA2	1.94	0.66
1:M:34:ILE:HD13	1:M:67:LEU:HD22	1.77	0.66
1:M:300:SER:CA	1:M:335:ARG:HG3	2.25	0.66
1:N:34:ILE:HD13	1:N:67:LEU:HD22	1.77	0.66
1:O:104:LEU:HB2	1:O:356:TRP:CZ3	2.30	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:34:ILE:HA	1:Q:68:LYS:O	1.96	0.66
1:W:236:LEU:HD22	1:W:252:ASN:N	2.09	0.66
1:D:104:LEU:HB2	1:D:356:TRP:CZ3	2.30	0.66
1:I:143:TYR:O	1:I:143:TYR:CD1	2.48	0.66
1:J:7:ALA:HB1	1:J:356:TRP:CH2	2.29	0.66
1:J:236:LEU:HD22	1:J:252:ASN:N	2.09	0.66
1:M:104:LEU:HB2	1:M:356:TRP:CZ3	2.30	0.66
1:U:236:LEU:HD22	1:U:252:ASN:N	2.09	0.66
1:U:370:VAL:O	1:U:370:VAL:HG13	1.95	0.66
1:V:22:ALA:HB1	1:V:348:SER:HB3	1.75	0.66
1:V:34:ILE:HA	1:V:68:LYS:O	1.95	0.66
1:V:362:TYR:CE1	1:V:367:PRO:HB3	2.28	0.66
1:E:143:TYR:O	1:E:143:TYR:CD1	2.48	0.66
1:G:34:ILE:HA	1:G:68:LYS:O	1.96	0.66
1:G:104:LEU:HB2	1:G:356:TRP:CZ3	2.30	0.66
1:H:38:PRO:CG	1:H:49:GLN:HE22	2.07	0.66
1:J:39:ARG:NE	1:J:66:THR:HB	2.09	0.66
1:J:104:LEU:HB2	1:J:356:TRP:CZ3	2.30	0.66
1:J:110:LEU:HD12	1:J:177:ARG:NH1	2.09	0.66
1:L:110:LEU:HD12	1:L:177:ARG:NH1	2.09	0.66
1:L:143:TYR:O	1:L:143:TYR:CD1	2.48	0.66
1:Q:39:ARG:NE	1:Q:66:THR:HB	2.09	0.66
1:R:58:ALA:HB1	1:R:65:LEU:CD2	2.25	0.66
1:S:39:ARG:NE	1:S:66:THR:HB	2.09	0.66
1:T:143:TYR:O	1:T:143:TYR:CD1	2.48	0.66
1:D:34:ILE:HA	1:D:68:LYS:O	1.96	0.66
1:E:362:TYR:O	1:E:366:GLY:HA2	1.94	0.66
1:G:236:LEU:HD22	1:G:252:ASN:N	2.09	0.66
1:I:38:PRO:CG	1:I:49:GLN:HE22	2.07	0.66
1:K:34:ILE:HD13	1:K:67:LEU:HD22	1.77	0.66
1:K:34:ILE:HA	1:K:68:LYS:O	1.96	0.66
1:N:362:TYR:CE1	1:N:367:PRO:HB3	2.28	0.66
1:O:39:ARG:NE	1:O:66:THR:HB	2.09	0.66
1:O:143:TYR:O	1:O:143:TYR:CD1	2.48	0.66
1:Q:110:LEU:HD12	1:Q:177:ARG:NH1	2.09	0.66
1:R:34:ILE:HA	1:R:68:LYS:O	1.96	0.66
1:A:34:ILE:HD13	1:A:67:LEU:HD22	1.77	0.66
1:A:370:VAL:HG22	1:A:375:PHE:O	1.96	0.66
1:B:143:TYR:O	1:B:143:TYR:CD1	2.48	0.66
1:F:34:ILE:HA	1:F:68:LYS:O	1.96	0.66
1:F:370:VAL:HG22	1:F:375:PHE:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:300:SER:CA	1:I:335:ARG:HG3	2.25	0.66
1:I:370:VAL:HG22	1:I:375:PHE:O	1.96	0.66
1:K:104:LEU:HB2	1:K:356:TRP:CZ3	2.30	0.66
1:M:34:ILE:HA	1:M:68:LYS:O	1.96	0.66
1:N:58:ALA:HB1	1:N:65:LEU:CD2	2.24	0.66
1:P:370:VAL:HG22	1:P:375:PHE:O	1.96	0.66
1:Q:38:PRO:CG	1:Q:49:GLN:HE22	2.07	0.66
1:S:34:ILE:HA	1:S:68:LYS:O	1.96	0.66
1:W:370:VAL:HG22	1:W:375:PHE:O	1.96	0.66
1:I:104:LEU:HB2	1:I:356:TRP:CZ3	2.30	0.66
1:J:143:TYR:O	1:J:143:TYR:CD1	2.48	0.66
1:J:370:VAL:O	1:J:370:VAL:HG13	1.95	0.66
1:O:37:ARG:CG	1:O:38:PRO:HD2	2.20	0.66
1:Q:300:SER:CA	1:Q:335:ARG:HG3	2.26	0.66
1:U:370:VAL:HG22	1:U:375:PHE:O	1.96	0.66
1:C:58:ALA:HB1	1:C:65:LEU:CD2	2.25	0.66
1:G:38:PRO:CG	1:G:49:GLN:HE22	2.07	0.66
1:H:370:VAL:HG22	1:H:375:PHE:O	1.96	0.66
1:K:35:VAL:CA	1:K:54:VAL:HG21	2.26	0.66
1:M:370:VAL:HG22	1:M:375:PHE:O	1.96	0.66
1:N:370:VAL:HG22	1:N:375:PHE:O	1.96	0.66
1:O:300:SER:CA	1:O:335:ARG:HG3	2.25	0.66
1:O:370:VAL:HG22	1:O:375:PHE:O	1.96	0.66
1:T:362:TYR:CE1	1:T:367:PRO:HB3	2.28	0.66
1:U:35:VAL:CA	1:U:54:VAL:HG21	2.26	0.66
1:C:34:ILE:HD13	1:C:67:LEU:HD22	1.77	0.66
1:C:34:ILE:HA	1:C:68:LYS:O	1.96	0.66
1:D:143:TYR:O	1:D:143:TYR:CD1	2.48	0.66
1:F:104:LEU:HB2	1:F:356:TRP:CZ3	2.30	0.66
1:K:362:TYR:CE1	1:K:367:PRO:HB3	2.28	0.66
1:L:35:VAL:CA	1:L:54:VAL:HG21	2.26	0.66
1:M:35:VAL:CA	1:M:54:VAL:HG21	2.26	0.66
1:Q:143:TYR:O	1:Q:143:TYR:CD1	2.48	0.66
1:R:370:VAL:HG22	1:R:375:PHE:O	1.96	0.66
1:S:300:SER:CA	1:S:335:ARG:HG3	2.26	0.66
1:T:300:SER:CA	1:T:335:ARG:HG3	2.25	0.66
1:U:34:ILE:HA	1:U:68:LYS:O	1.96	0.66
1:V:370:VAL:HG22	1:V:375:PHE:O	1.96	0.66
1:W:35:VAL:CA	1:W:54:VAL:HG21	2.26	0.66
1:B:370:VAL:O	1:B:370:VAL:HG13	1.95	0.66
1:D:370:VAL:HG22	1:D:375:PHE:O	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:370:VAL:HG22	1:E:375:PHE:O	1.96	0.66
1:F:35:VAL:CA	1:F:54:VAL:HG21	2.26	0.66
1:F:300:SER:CA	1:F:335:ARG:HG3	2.26	0.66
1:I:35:VAL:CA	1:I:54:VAL:HG21	2.26	0.66
1:P:34:ILE:HD13	1:P:67:LEU:HD22	1.77	0.66
1:R:370:VAL:HG13	1:R:370:VAL:O	1.95	0.66
1:S:35:VAL:CA	1:S:54:VAL:HG21	2.26	0.66
1:W:143:TYR:O	1:W:143:TYR:CD1	2.48	0.66
1:W:370:VAL:HG13	1:W:370:VAL:O	1.95	0.66
1:D:35:VAL:CA	1:D:54:VAL:HG21	2.26	0.65
1:E:34:ILE:HA	1:E:68:LYS:O	1.96	0.65
1:G:370:VAL:HG22	1:G:375:PHE:O	1.96	0.65
1:H:35:VAL:CG1	1:H:68:LYS:HB2	2.22	0.65
1:H:143:TYR:O	1:H:143:TYR:CD1	2.48	0.65
1:I:34:ILE:HD13	1:I:67:LEU:HD22	1.77	0.65
1:M:39:ARG:NE	1:M:66:THR:HB	2.09	0.65
1:N:35:VAL:CA	1:N:54:VAL:HG21	2.26	0.65
1:P:34:ILE:HA	1:P:68:LYS:O	1.96	0.65
1:R:35:VAL:CA	1:R:54:VAL:HG21	2.26	0.65
1:U:143:TYR:O	1:U:143:TYR:CD1	2.48	0.65
1:C:370:VAL:HG22	1:C:375:PHE:O	1.96	0.65
1:E:34:ILE:HD13	1:E:67:LEU:HD22	1.77	0.65
1:E:58:ALA:HB1	1:E:65:LEU:CD2	2.24	0.65
1:F:143:TYR:O	1:F:143:TYR:CD1	2.48	0.65
1:J:34:ILE:HA	1:J:68:LYS:O	1.96	0.65
1:L:39:ARG:NE	1:L:66:THR:HB	2.09	0.65
1:N:370:VAL:HG13	1:N:370:VAL:O	1.95	0.65
1:O:34:ILE:HA	1:O:68:LYS:O	1.96	0.65
1:T:35:VAL:CA	1:T:54:VAL:HG21	2.26	0.65
1:T:370:VAL:HG22	1:T:375:PHE:O	1.96	0.65
1:U:39:ARG:NE	1:U:66:THR:HB	2.09	0.65
1:D:300:SER:CA	1:D:335:ARG:HG3	2.25	0.65
1:H:104:LEU:HB2	1:H:356:TRP:CZ3	2.30	0.65
1:L:370:VAL:HG13	1:L:370:VAL:O	1.95	0.65
1:M:370:VAL:O	1:M:370:VAL:HG13	1.95	0.65
1:R:34:ILE:HD13	1:R:67:LEU:HD22	1.76	0.65
1:S:143:TYR:O	1:S:143:TYR:CD1	2.48	0.65
1:S:370:VAL:HG22	1:S:375:PHE:O	1.96	0.65
1:T:34:ILE:HD13	1:T:67:LEU:HD22	1.77	0.65
1:T:34:ILE:HA	1:T:68:LYS:O	1.96	0.65
1:V:34:ILE:HD13	1:V:67:LEU:HD22	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:370:VAL:O	1:V:370:VAL:HG13	1.95	0.65
1:W:34:ILE:HA	1:W:68:LYS:O	1.96	0.65
1:E:370:VAL:O	1:E:370:VAL:HG13	1.95	0.65
1:G:300:SER:CA	1:G:335:ARG:HG3	2.25	0.65
1:G:369:ILE:CG2	1:G:370:VAL:N	2.60	0.65
1:K:208:ILE:CD1	1:K:243:PRO:HD2	2.18	0.65
1:N:34:ILE:HA	1:N:68:LYS:O	1.96	0.65
1:O:35:VAL:CA	1:O:54:VAL:HG21	2.26	0.65
1:P:362:TYR:CE1	1:P:367:PRO:HB3	2.28	0.65
1:Q:35:VAL:CA	1:Q:54:VAL:HG21	2.26	0.65
1:D:208:ILE:CD1	1:D:243:PRO:HD2	2.18	0.65
1:G:35:VAL:CA	1:G:54:VAL:HG21	2.26	0.65
1:G:370:VAL:HG13	1:G:370:VAL:O	1.95	0.65
1:H:300:SER:CA	1:H:335:ARG:HG3	2.26	0.65
1:J:370:VAL:HG22	1:J:375:PHE:O	1.96	0.65
1:K:300:SER:CA	1:K:335:ARG:HG3	2.25	0.65
1:P:58:ALA:HB1	1:P:65:LEU:CD2	2.24	0.65
1:P:369:ILE:CG2	1:P:370:VAL:N	2.60	0.65
1:P:370:VAL:O	1:P:370:VAL:HG13	1.95	0.65
1:R:362:TYR:CE1	1:R:367:PRO:HB3	2.28	0.65
1:T:290:ARG:CD	1:V:244:ASP:HB2	2.12	0.65
1:V:35:VAL:CA	1:V:54:VAL:HG21	2.26	0.65
1:G:34:ILE:HD13	1:G:67:LEU:HD22	1.77	0.65
1:P:35:VAL:CA	1:P:54:VAL:HG21	2.26	0.65
1:V:300:SER:CA	1:V:335:ARG:HG3	2.26	0.65
1:V:369:ILE:CG2	1:V:370:VAL:N	2.60	0.65
1:W:300:SER:CA	1:W:335:ARG:HG3	2.25	0.65
1:A:39:ARG:NE	1:A:66:THR:HB	2.09	0.65
1:A:369:ILE:CG2	1:A:370:VAL:N	2.60	0.65
1:B:35:VAL:CA	1:B:54:VAL:HG21	2.26	0.65
1:L:34:ILE:HA	1:L:68:LYS:O	1.96	0.65
1:N:369:ILE:CG2	1:N:370:VAL:N	2.60	0.65
1:D:58:ALA:O	1:D:61:LYS:N	2.30	0.65
1:E:369:ILE:CG2	1:E:370:VAL:N	2.60	0.65
1:I:369:ILE:CG2	1:I:370:VAL:N	2.60	0.65
1:K:370:VAL:HG22	1:K:375:PHE:O	1.96	0.65
1:Q:35:VAL:CG1	1:Q:68:LYS:HB2	2.22	0.65
1:C:300:SER:CA	1:C:335:ARG:HG3	2.25	0.65
1:I:370:VAL:HG13	1:I:370:VAL:O	1.95	0.65
1:J:35:VAL:CG1	1:J:68:LYS:HB2	2.22	0.65
1:O:35:VAL:CG1	1:O:68:LYS:HB2	2.22	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:VAL:CA	1:A:54:VAL:HG21	2.26	0.65
1:A:370:VAL:HG13	1:A:370:VAL:O	1.95	0.65
1:C:35:VAL:CA	1:C:54:VAL:HG21	2.26	0.65
1:C:58:ALA:O	1:C:61:LYS:N	2.30	0.65
1:E:300:SER:CA	1:E:335:ARG:HG3	2.25	0.65
1:H:37:ARG:CG	1:H:38:PRO:HD2	2.20	0.65
1:I:58:ALA:O	1:I:61:LYS:N	2.30	0.65
1:K:39:ARG:NE	1:K:66:THR:HB	2.09	0.65
1:O:58:ALA:O	1:O:61:LYS:N	2.30	0.65
1:R:300:SER:CA	1:R:335:ARG:HG3	2.25	0.65
1:R:369:ILE:CG2	1:R:370:VAL:N	2.60	0.65
1:S:35:VAL:CG1	1:S:68:LYS:HB2	2.22	0.65
1:T:58:ALA:O	1:T:61:LYS:N	2.30	0.65
1:Q:370:VAL:HG22	1:Q:375:PHE:O	1.96	0.64
1:U:58:ALA:O	1:U:61:LYS:N	2.30	0.64
1:C:370:VAL:O	1:C:370:VAL:HG13	1.95	0.64
1:I:290:ARG:CD	1:K:244:ASP:HB2	2.12	0.64
1:L:300:SER:CA	1:L:335:ARG:HG3	2.25	0.64
1:U:300:SER:CA	1:U:335:ARG:HG3	2.25	0.64
1:W:39:ARG:NE	1:W:66:THR:HB	2.09	0.64
1:W:369:ILE:CG2	1:W:370:VAL:N	2.60	0.64
1:A:34:ILE:HA	1:A:68:LYS:O	1.96	0.64
1:B:370:VAL:HG22	1:B:375:PHE:O	1.96	0.64
1:E:58:ALA:O	1:E:61:LYS:N	2.30	0.64
1:F:58:ALA:O	1:F:61:LYS:N	2.30	0.64
1:K:370:VAL:O	1:K:370:VAL:HG13	1.95	0.64
1:L:370:VAL:HG22	1:L:375:PHE:O	1.96	0.64
1:N:37:ARG:CG	1:N:38:PRO:HD2	2.20	0.64
1:N:300:SER:CA	1:N:335:ARG:HG3	2.26	0.64
1:Q:369:ILE:CG2	1:Q:370:VAL:N	2.60	0.64
1:S:37:ARG:CG	1:S:38:PRO:HD2	2.20	0.64
1:T:369:ILE:CG2	1:T:370:VAL:N	2.60	0.64
1:T:370:VAL:HG13	1:T:370:VAL:O	1.95	0.64
1:B:7:ALA:HB1	1:B:356:TRP:CZ2	2.33	0.64
1:E:35:VAL:CA	1:E:54:VAL:HG21	2.26	0.64
1:L:37:ARG:CG	1:L:38:PRO:HD2	2.20	0.64
1:M:35:VAL:CG1	1:M:68:LYS:HB2	2.22	0.64
1:N:58:ALA:O	1:N:61:LYS:N	2.30	0.64
1:Q:7:ALA:HB1	1:Q:356:TRP:CZ2	2.33	0.64
1:T:7:ALA:HB1	1:T:356:TRP:CZ2	2.33	0.64
1:V:58:ALA:O	1:V:61:LYS:N	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:58:ALA:O	1:W:61:LYS:N	2.30	0.64
1:I:7:ALA:HB1	1:I:356:TRP:CZ2	2.33	0.64
1:K:58:ALA:O	1:K:61:LYS:N	2.30	0.64
1:M:369:ILE:CG2	1:M:370:VAL:N	2.60	0.64
1:N:39:ARG:NE	1:N:66:THR:HB	2.09	0.64
1:R:7:ALA:HB1	1:R:356:TRP:CZ2	2.33	0.64
1:A:300:SER:CA	1:A:335:ARG:HG3	2.25	0.64
1:B:369:ILE:CG2	1:B:370:VAL:N	2.60	0.64
1:C:39:ARG:NE	1:C:66:THR:HB	2.09	0.64
1:C:369:ILE:CG2	1:C:370:VAL:N	2.60	0.64
1:H:34:ILE:HA	1:H:68:LYS:O	1.96	0.64
1:H:35:VAL:CA	1:H:54:VAL:HG21	2.26	0.64
1:H:369:ILE:CG2	1:H:370:VAL:N	2.60	0.64
1:J:369:ILE:CG2	1:J:370:VAL:N	2.60	0.64
1:Q:58:ALA:O	1:Q:61:LYS:N	2.30	0.64
1:U:7:ALA:HB1	1:U:356:TRP:CZ2	2.33	0.64
1:V:39:ARG:NE	1:V:66:THR:HB	2.09	0.64
1:W:7:ALA:HB1	1:W:356:TRP:CZ2	2.33	0.64
1:W:37:ARG:CG	1:W:38:PRO:HD2	2.20	0.64
1:C:290:ARG:CD	1:E:244:ASP:HB2	2.12	0.64
1:G:7:ALA:HB1	1:G:356:TRP:CZ2	2.33	0.64
1:K:7:ALA:HB1	1:K:356:TRP:CZ2	2.33	0.64
1:O:369:ILE:CG2	1:O:370:VAL:N	2.60	0.64
1:P:300:SER:CA	1:P:335:ARG:HG3	2.25	0.64
1:S:7:ALA:HB1	1:S:356:TRP:CZ2	2.33	0.64
1:V:7:ALA:HB1	1:V:356:TRP:CZ2	2.33	0.64
1:B:58:ALA:O	1:B:61:LYS:N	2.30	0.64
1:J:35:VAL:CA	1:J:54:VAL:HG21	2.26	0.64
1:L:369:ILE:CG2	1:L:370:VAL:N	2.60	0.64
1:O:7:ALA:HB1	1:O:356:TRP:CZ2	2.33	0.64
1:P:7:ALA:HB1	1:P:356:TRP:CZ2	2.33	0.64
1:P:58:ALA:O	1:P:61:LYS:N	2.30	0.64
1:S:369:ILE:CG2	1:S:370:VAL:N	2.60	0.64
1:U:35:VAL:CG1	1:U:68:LYS:HB2	2.22	0.64
1:U:208:ILE:CD1	1:U:243:PRO:HD2	2.18	0.64
1:F:369:ILE:CG2	1:F:370:VAL:N	2.60	0.64
1:J:300:SER:CA	1:J:335:ARG:HG3	2.26	0.64
1:K:35:VAL:CG1	1:K:68:LYS:HB2	2.22	0.64
1:M:58:ALA:O	1:M:61:LYS:N	2.30	0.64
1:A:37:ARG:CG	1:A:38:PRO:HD2	2.20	0.63
1:A:298:VAL:HG12	1:A:335:ARG:HH11	1.64	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:34:ILE:HB	1:B:54:VAL:HG13	1.79	0.63
1:C:7:ALA:HB1	1:C:356:TRP:CZ2	2.33	0.63
1:F:334:GLU:HA	1:F:334:GLU:OE2	1.98	0.63
1:G:58:ALA:O	1:G:61:LYS:N	2.30	0.63
1:H:7:ALA:HB1	1:H:356:TRP:CZ2	2.33	0.63
1:K:369:ILE:CG2	1:K:370:VAL:N	2.60	0.63
1:L:7:ALA:HB1	1:L:356:TRP:CZ2	2.33	0.63
1:N:7:ALA:HB1	1:N:356:TRP:CZ2	2.33	0.63
1:T:39:ARG:NE	1:T:66:THR:HB	2.09	0.63
1:D:369:ILE:CG2	1:D:370:VAL:N	2.60	0.63
1:E:7:ALA:HB1	1:E:356:TRP:CZ2	2.33	0.63
1:I:334:GLU:OE2	1:I:334:GLU:HA	1.98	0.63
1:J:7:ALA:HB1	1:J:356:TRP:CZ2	2.33	0.63
1:K:334:GLU:HA	1:K:334:GLU:OE2	1.98	0.63
1:L:35:VAL:CG1	1:L:68:LYS:HB2	2.22	0.63
1:L:334:GLU:HA	1:L:334:GLU:OE2	1.98	0.63
1:O:147:ARG:HH21	1:O:147:ARG:CG	2.12	0.63
1:R:39:ARG:NE	1:R:66:THR:HB	2.09	0.63
1:U:369:ILE:CG2	1:U:370:VAL:N	2.60	0.63
1:V:298:VAL:HG12	1:V:335:ARG:HH11	1.64	0.63
1:G:298:VAL:HG12	1:G:335:ARG:HH11	1.64	0.63
1:I:37:ARG:CG	1:I:38:PRO:HD2	2.20	0.63
1:I:39:ARG:NE	1:I:66:THR:HB	2.09	0.63
1:K:34:ILE:HB	1:K:54:VAL:HG13	1.80	0.63
1:K:104:LEU:HB2	1:K:356:TRP:HH2	1.62	0.63
1:M:7:ALA:HB1	1:M:356:TRP:CZ2	2.33	0.63
1:M:147:ARG:HH21	1:M:147:ARG:CG	2.12	0.63
1:P:298:VAL:HG12	1:P:335:ARG:HH11	1.64	0.63
1:S:334:GLU:HA	1:S:334:GLU:OE2	1.98	0.63
1:V:147:ARG:HH21	1:V:147:ARG:CG	2.12	0.63
1:V:334:GLU:HA	1:V:334:GLU:OE2	1.98	0.63
1:W:147:ARG:HH21	1:W:147:ARG:CG	2.12	0.63
1:W:298:VAL:HG12	1:W:335:ARG:HH11	1.64	0.63
1:B:37:ARG:HB2	1:B:51:ASP:O	1.99	0.63
1:C:37:ARG:CG	1:C:38:PRO:HD2	2.20	0.63
1:D:7:ALA:HB1	1:D:356:TRP:CZ2	2.33	0.63
1:M:37:ARG:HB2	1:M:51:ASP:O	1.99	0.63
1:M:298:VAL:HG12	1:M:335:ARG:HH11	1.64	0.63
1:O:298:VAL:HG12	1:O:335:ARG:HH11	1.64	0.63
1:Q:147:ARG:HH21	1:Q:147:ARG:CG	2.12	0.63
1:T:37:ARG:CG	1:T:38:PRO:HD2	2.20	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:334:GLU:HA	1:U:334:GLU:OE2	1.98	0.63
1:D:104:LEU:HB2	1:D:356:TRP:HH2	1.63	0.63
1:E:39:ARG:NE	1:E:66:THR:HB	2.09	0.63
1:E:147:ARG:HH21	1:E:147:ARG:CG	2.12	0.63
1:F:7:ALA:HB1	1:F:356:TRP:CZ2	2.33	0.63
1:G:334:GLU:HA	1:G:334:GLU:OE2	1.98	0.63
1:H:298:VAL:HG12	1:H:335:ARG:HH11	1.64	0.63
1:T:147:ARG:HH21	1:T:147:ARG:CG	2.12	0.63
1:V:37:ARG:HB2	1:V:51:ASP:O	1.99	0.63
1:A:7:ALA:HB1	1:A:356:TRP:CZ2	2.33	0.63
1:B:169:TYR:CE2	1:D:40:HIS:CB	2.82	0.63
1:C:147:ARG:HH21	1:C:147:ARG:CG	2.12	0.63
1:F:147:ARG:HH21	1:F:147:ARG:CG	2.12	0.63
1:H:334:GLU:HA	1:H:334:GLU:OE2	1.98	0.63
1:J:298:VAL:HG12	1:J:335:ARG:HH11	1.64	0.63
1:N:334:GLU:HA	1:N:334:GLU:OE2	1.98	0.63
1:O:169:TYR:CE2	1:Q:40:HIS:CB	2.82	0.63
1:P:169:TYR:CE2	1:R:40:HIS:CB	2.82	0.63
1:Q:37:ARG:O	1:Q:66:THR:HG22	1.99	0.63
1:R:169:TYR:CE2	1:T:40:HIS:CB	2.82	0.63
1:U:147:ARG:HH21	1:U:147:ARG:CG	2.12	0.63
1:A:37:ARG:O	1:A:66:THR:HG22	1.99	0.63
1:B:39:ARG:NE	1:B:66:THR:HB	2.09	0.63
1:D:169:TYR:CE2	1:F:40:HIS:CB	2.82	0.63
1:G:37:ARG:HB2	1:G:51:ASP:O	1.99	0.63
1:H:58:ALA:O	1:H:61:LYS:N	2.30	0.63
1:I:35:VAL:CG1	1:I:68:LYS:HB2	2.22	0.63
1:M:169:TYR:CE2	1:O:40:HIS:CB	2.82	0.63
1:N:298:VAL:HG12	1:N:335:ARG:HH11	1.64	0.63
1:P:39:ARG:NE	1:P:66:THR:HB	2.09	0.63
1:S:37:ARG:HB2	1:S:51:ASP:O	1.99	0.63
1:T:169:TYR:CE2	1:V:40:HIS:CB	2.82	0.63
1:T:334:GLU:OE2	1:T:334:GLU:HA	1.98	0.63
1:V:37:ARG:O	1:V:66:THR:HG22	1.99	0.63
1:A:147:ARG:HH21	1:A:147:ARG:CG	2.12	0.63
1:B:37:ARG:O	1:B:66:THR:HG22	1.99	0.63
1:C:37:ARG:O	1:C:66:THR:HG22	1.99	0.63
1:H:37:ARG:O	1:H:66:THR:HG22	1.99	0.63
1:H:147:ARG:HH21	1:H:147:ARG:CG	2.12	0.63
1:K:169:TYR:CE2	1:M:40:HIS:CB	2.82	0.63
1:M:334:GLU:HA	1:M:334:GLU:OE2	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:147:ARG:HH21	1:S:147:ARG:CG	2.12	0.63
1:A:334:GLU:OE2	1:A:334:GLU:HA	1.98	0.63
1:D:37:ARG:HB2	1:D:51:ASP:O	1.99	0.63
1:D:147:ARG:HH21	1:D:147:ARG:CG	2.12	0.63
1:F:37:ARG:O	1:F:66:THR:HG22	1.99	0.63
1:G:169:TYR:CE2	1:I:40:HIS:CB	2.82	0.63
1:I:169:TYR:CE2	1:K:40:HIS:CB	2.82	0.63
1:J:37:ARG:O	1:J:66:THR:HG22	1.99	0.63
1:J:147:ARG:HH21	1:J:147:ARG:CG	2.12	0.63
1:K:147:ARG:HH21	1:K:147:ARG:CG	2.12	0.63
1:O:334:GLU:HA	1:O:334:GLU:OE2	1.98	0.63
1:Q:169:TYR:CE2	1:S:40:HIS:CB	2.82	0.63
1:S:37:ARG:O	1:S:66:THR:HG22	1.99	0.63
1:V:35:VAL:CG1	1:V:68:LYS:HB2	2.22	0.63
1:W:35:VAL:CG1	1:W:68:LYS:HB2	2.22	0.63
1:B:334:GLU:HA	1:B:334:GLU:OE2	1.98	0.62
1:E:37:ARG:O	1:E:66:THR:HG22	1.99	0.62
1:I:298:VAL:HG12	1:I:335:ARG:HH11	1.64	0.62
1:J:334:GLU:HA	1:J:334:GLU:OE2	1.98	0.62
1:K:37:ARG:HB2	1:K:51:ASP:O	1.99	0.62
1:L:147:ARG:HH21	1:L:147:ARG:CG	2.11	0.62
1:N:169:TYR:CE2	1:P:40:HIS:CB	2.82	0.62
1:O:37:ARG:O	1:O:66:THR:HG22	1.99	0.62
1:Q:37:ARG:HB2	1:Q:51:ASP:O	1.99	0.62
1:T:298:VAL:HG12	1:T:335:ARG:HH11	1.64	0.62
1:C:298:VAL:HG12	1:C:335:ARG:HH11	1.64	0.62
1:E:169:TYR:CE2	1:G:40:HIS:CB	2.82	0.62
1:F:169:TYR:CE2	1:H:40:HIS:CB	2.82	0.62
1:F:298:VAL:HG12	1:F:335:ARG:HH11	1.64	0.62
1:G:147:ARG:HH21	1:G:147:ARG:CG	2.12	0.62
1:M:37:ARG:O	1:M:66:THR:HG22	1.99	0.62
1:O:37:ARG:HB2	1:O:51:ASP:O	1.99	0.62
1:U:298:VAL:HG12	1:U:335:ARG:HH11	1.64	0.62
1:A:104:LEU:HB2	1:A:356:TRP:HH2	1.62	0.62
1:E:298:VAL:HG12	1:E:335:ARG:HH11	1.64	0.62
1:I:362:TYR:HA	1:I:366:GLY:O	2.00	0.62
1:J:37:ARG:HB2	1:J:51:ASP:O	1.99	0.62
1:K:37:ARG:O	1:K:66:THR:HG22	1.99	0.62
1:K:362:TYR:HA	1:K:366:GLY:O	2.00	0.62
1:L:37:ARG:HB2	1:L:51:ASP:O	1.99	0.62
1:S:169:TYR:CE2	1:U:40:HIS:CB	2.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:298:VAL:HG12	1:S:335:ARG:HH11	1.64	0.62
1:T:37:ARG:O	1:T:66:THR:HG22	1.99	0.62
1:U:169:TYR:CE2	1:W:40:HIS:CB	2.82	0.62
1:B:298:VAL:HG12	1:B:335:ARG:HH11	1.64	0.62
1:D:362:TYR:HA	1:D:366:GLY:O	2.00	0.62
1:E:334:GLU:HA	1:E:334:GLU:OE2	1.98	0.62
1:I:147:ARG:HH21	1:I:147:ARG:CG	2.12	0.62
1:L:169:TYR:CE2	1:N:40:HIS:CB	2.82	0.62
1:M:362:TYR:HA	1:M:366:GLY:O	2.00	0.62
1:N:37:ARG:HB2	1:N:51:ASP:O	1.99	0.62
1:Q:298:VAL:HG12	1:Q:335:ARG:HH11	1.64	0.62
1:R:58:ALA:O	1:R:61:LYS:N	2.30	0.62
1:S:58:ALA:O	1:S:61:LYS:N	2.30	0.62
1:T:34:ILE:HB	1:T:54:VAL:HG13	1.80	0.62
1:B:147:ARG:HH21	1:B:147:ARG:CG	2.12	0.62
1:C:104:LEU:HB2	1:C:356:TRP:HH2	1.63	0.62
1:G:37:ARG:O	1:G:66:THR:HG22	1.99	0.62
1:H:37:ARG:HB2	1:H:51:ASP:O	1.99	0.62
1:H:169:TYR:CE2	1:J:40:HIS:CB	2.82	0.62
1:I:37:ARG:HB2	1:I:51:ASP:O	1.99	0.62
1:L:37:ARG:O	1:L:66:THR:HG22	1.99	0.62
1:N:147:ARG:HH21	1:N:147:ARG:CG	2.12	0.62
1:O:362:TYR:HA	1:O:366:GLY:O	2.00	0.62
1:R:298:VAL:HG12	1:R:335:ARG:HH11	1.64	0.62
1:R:334:GLU:HA	1:R:334:GLU:OE2	1.98	0.62
1:W:334:GLU:HA	1:W:334:GLU:OE2	1.98	0.62
1:A:37:ARG:HB2	1:A:51:ASP:O	1.99	0.62
1:C:37:ARG:HB2	1:C:51:ASP:O	1.99	0.62
1:C:334:GLU:HA	1:C:334:GLU:OE2	1.98	0.62
1:D:334:GLU:HA	1:D:334:GLU:OE2	1.98	0.62
1:G:35:VAL:CG1	1:G:68:LYS:HB2	2.22	0.62
1:G:39:ARG:NE	1:G:66:THR:HB	2.09	0.62
1:G:133:TYR:HB2	1:G:356:TRP:CE3	2.35	0.62
1:G:362:TYR:HA	1:G:366:GLY:O	2.00	0.62
1:H:362:TYR:HA	1:H:366:GLY:O	2.00	0.62
1:I:133:TYR:HB2	1:I:356:TRP:CE3	2.35	0.62
1:J:362:TYR:HA	1:J:366:GLY:O	2.00	0.62
1:K:133:TYR:HB2	1:K:356:TRP:CE3	2.35	0.62
1:M:34:ILE:HB	1:M:54:VAL:HG13	1.79	0.62
1:N:35:VAL:CG1	1:N:68:LYS:HB2	2.22	0.62
1:Q:334:GLU:OE2	1:Q:334:GLU:HA	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:362:TYR:HA	1:Q:366:GLY:O	2.00	0.62
1:W:37:ARG:O	1:W:66:THR:HG22	1.99	0.62
1:A:35:VAL:CG1	1:A:68:LYS:HB2	2.22	0.62
1:A:169:TYR:CE2	1:C:40:HIS:CB	2.82	0.62
1:C:169:TYR:CE2	1:E:40:HIS:CB	2.82	0.62
1:D:34:ILE:HB	1:D:54:VAL:HG13	1.80	0.62
1:D:39:ARG:NE	1:D:66:THR:HB	2.09	0.62
1:H:133:TYR:HB2	1:H:356:TRP:CE3	2.35	0.62
1:I:37:ARG:O	1:I:66:THR:HG22	1.99	0.62
1:J:133:TYR:HB2	1:J:356:TRP:CE3	2.35	0.62
1:K:298:VAL:HG12	1:K:335:ARG:HH11	1.64	0.62
1:M:133:TYR:HB2	1:M:356:TRP:CE3	2.35	0.62
1:P:34:ILE:HB	1:P:54:VAL:HG13	1.79	0.62
1:R:37:ARG:O	1:R:66:THR:HG22	1.99	0.62
1:R:133:TYR:HB2	1:R:356:TRP:CE3	2.35	0.62
1:W:37:ARG:HB2	1:W:51:ASP:O	1.99	0.62
1:D:37:ARG:O	1:D:66:THR:HG22	1.99	0.62
1:E:37:ARG:HB2	1:E:51:ASP:O	1.99	0.62
1:F:133:TYR:HB2	1:F:356:TRP:CE3	2.35	0.62
1:F:362:TYR:HA	1:F:366:GLY:O	2.00	0.62
1:N:133:TYR:HB2	1:N:356:TRP:CE3	2.35	0.62
1:P:37:ARG:HB2	1:P:51:ASP:O	1.99	0.62
1:P:133:TYR:HB2	1:P:356:TRP:CE3	2.35	0.62
1:P:334:GLU:HA	1:P:334:GLU:OE2	1.98	0.62
1:R:37:ARG:HB2	1:R:51:ASP:O	1.99	0.62
1:T:44:MET:HG3	1:T:45:VAL:N	2.15	0.62
1:B:104:LEU:HB2	1:B:356:TRP:HH2	1.62	0.62
1:L:133:TYR:HB2	1:L:356:TRP:CE3	2.35	0.62
1:L:362:TYR:HA	1:L:366:GLY:O	2.00	0.62
1:P:44:MET:HG3	1:P:45:VAL:N	2.15	0.62
1:S:362:TYR:HA	1:S:366:GLY:O	2.00	0.62
1:C:35:VAL:CG1	1:C:68:LYS:HB2	2.22	0.62
1:D:133:TYR:HB2	1:D:356:TRP:CE3	2.35	0.62
1:E:35:VAL:CG1	1:E:68:LYS:HB2	2.22	0.62
1:E:133:TYR:HB2	1:E:356:TRP:CE3	2.35	0.62
1:E:362:TYR:HA	1:E:366:GLY:O	2.00	0.62
1:I:157:ASP:HB2	2:I:401:ADP:H5'1	1.82	0.62
1:M:44:MET:HG3	1:M:45:VAL:N	2.15	0.62
1:O:133:TYR:HB2	1:O:356:TRP:CE3	2.35	0.62
1:O:133:TYR:OH	1:O:375:PHE:HB2	2.00	0.62
1:T:133:TYR:HB2	1:T:356:TRP:CE3	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:133:TYR:HB2	1:W:356:TRP:CE3	2.35	0.62
1:C:44:MET:HG3	1:C:45:VAL:N	2.15	0.61
1:F:37:ARG:HB2	1:F:51:ASP:O	1.99	0.61
1:G:44:MET:HG3	1:G:45:VAL:N	2.15	0.61
1:N:362:TYR:HA	1:N:366:GLY:O	2.00	0.61
1:P:147:ARG:HH21	1:P:147:ARG:CG	2.12	0.61
1:T:35:VAL:CG1	1:T:68:LYS:HB2	2.22	0.61
1:B:35:VAL:CG1	1:B:68:LYS:HB2	2.22	0.61
1:B:133:TYR:HB2	1:B:356:TRP:CE3	2.35	0.61
1:C:133:TYR:HB2	1:C:356:TRP:CE3	2.35	0.61
1:D:133:TYR:OH	1:D:375:PHE:HB2	2.00	0.61
1:I:44:MET:HG3	1:I:45:VAL:N	2.15	0.61
1:J:169:TYR:CE2	1:L:40:HIS:CB	2.82	0.61
1:L:298:VAL:HG12	1:L:335:ARG:HH11	1.64	0.61
1:N:37:ARG:O	1:N:66:THR:HG22	1.99	0.61
1:O:157:ASP:HB2	2:O:401:ADP:H5'1	1.83	0.61
1:Q:133:TYR:HB2	1:Q:356:TRP:CE3	2.35	0.61
1:S:44:MET:HG3	1:S:45:VAL:N	2.15	0.61
1:S:133:TYR:HB2	1:S:356:TRP:CE3	2.35	0.61
1:T:37:ARG:HB2	1:T:51:ASP:O	1.99	0.61
1:U:362:TYR:HA	1:U:366:GLY:O	2.00	0.61
1:V:157:ASP:HB2	2:V:401:ADP:H5'1	1.83	0.61
1:A:44:MET:HG3	1:A:45:VAL:N	2.15	0.61
1:B:157:ASP:HB2	2:B:401:ADP:H5'1	1.83	0.61
1:I:104:LEU:HB2	1:I:356:TRP:HH2	1.63	0.61
1:I:133:TYR:OH	1:I:375:PHE:HB2	2.00	0.61
1:J:44:MET:HG3	1:J:45:VAL:N	2.15	0.61
1:K:157:ASP:HB2	2:K:401:ADP:H5'1	1.82	0.61
1:M:157:ASP:HB2	2:M:401:ADP:H5'1	1.83	0.61
1:O:44:MET:HG3	1:O:45:VAL:N	2.15	0.61
1:T:157:ASP:HB2	2:T:401:ADP:H5'1	1.83	0.61
1:U:37:ARG:HB2	1:U:51:ASP:O	1.99	0.61
1:U:37:ARG:O	1:U:66:THR:HG22	1.99	0.61
1:V:34:ILE:HB	1:V:54:VAL:HG13	1.80	0.61
1:V:362:TYR:HA	1:V:366:GLY:O	2.00	0.61
1:B:362:TYR:HA	1:B:366:GLY:O	2.00	0.61
1:D:35:VAL:CG1	1:D:68:LYS:HB2	2.22	0.61
1:D:157:ASP:HB2	2:D:401:ADP:H5'1	1.83	0.61
1:D:298:VAL:HG12	1:D:335:ARG:HH11	1.64	0.61
1:E:44:MET:HG3	1:E:45:VAL:N	2.15	0.61
1:F:44:MET:HG3	1:F:45:VAL:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:34:ILE:HB	1:J:54:VAL:HG13	1.80	0.61
1:K:44:MET:HG3	1:K:45:VAL:N	2.15	0.61
1:K:65:LEU:C	1:K:65:LEU:HD12	2.21	0.61
1:L:104:LEU:HB2	1:L:356:TRP:HH2	1.62	0.61
1:O:65:LEU:C	1:O:65:LEU:HD12	2.21	0.61
1:P:37:ARG:O	1:P:66:THR:HG22	1.99	0.61
1:R:104:LEU:HB2	1:R:356:TRP:HH2	1.62	0.61
1:V:133:TYR:HB2	1:V:356:TRP:CE3	2.35	0.61
1:A:58:ALA:O	1:A:61:LYS:N	2.30	0.61
1:E:34:ILE:HB	1:E:54:VAL:HG13	1.79	0.61
1:E:104:LEU:HB2	1:E:356:TRP:HH2	1.63	0.61
1:F:39:ARG:NE	1:F:66:THR:HB	2.09	0.61
1:H:324:THR:HG21	1:J:241:GLU:CD	2.21	0.61
1:I:65:LEU:C	1:I:65:LEU:HD12	2.21	0.61
1:J:58:ALA:O	1:J:61:LYS:N	2.30	0.61
1:P:362:TYR:HA	1:P:366:GLY:O	2.00	0.61
1:Q:157:ASP:HB2	2:Q:401:ADP:H5'1	1.83	0.61
1:T:65:LEU:C	1:T:65:LEU:HD12	2.21	0.61
1:U:133:TYR:HB2	1:U:356:TRP:CE3	2.35	0.61
1:V:65:LEU:C	1:V:65:LEU:HD12	2.21	0.61
1:W:44:MET:HG3	1:W:45:VAL:N	2.15	0.61
1:C:362:TYR:HA	1:C:366:GLY:O	2.00	0.61
1:D:44:MET:HG3	1:D:45:VAL:N	2.15	0.61
1:G:157:ASP:HB2	2:G:401:ADP:H5'1	1.83	0.61
1:H:34:ILE:HB	1:H:54:VAL:HG13	1.80	0.61
1:L:58:ALA:O	1:L:61:LYS:N	2.30	0.61
1:N:44:MET:HG3	1:N:45:VAL:N	2.15	0.61
1:P:65:LEU:HD12	1:P:65:LEU:C	2.21	0.61
1:V:44:MET:HG3	1:V:45:VAL:N	2.15	0.61
1:A:133:TYR:HB2	1:A:356:TRP:CE3	2.35	0.61
1:B:44:MET:HG3	1:B:45:VAL:N	2.15	0.61
1:J:104:LEU:HB2	1:J:356:TRP:HH2	1.63	0.61
1:K:36:GLY:N	1:K:54:VAL:HG23	2.16	0.61
1:L:44:MET:HG3	1:L:45:VAL:N	2.15	0.61
1:M:65:LEU:HD12	1:M:65:LEU:C	2.21	0.61
1:O:36:GLY:N	1:O:54:VAL:HG23	2.16	0.61
1:R:65:LEU:C	1:R:65:LEU:HD12	2.21	0.61
1:R:362:TYR:HA	1:R:366:GLY:O	2.00	0.61
1:T:104:LEU:HB2	1:T:356:TRP:HH2	1.62	0.61
1:T:133:TYR:OH	1:T:375:PHE:HB2	2.00	0.61
1:U:36:GLY:N	1:U:54:VAL:HG23	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:36:GLY:N	1:W:54:VAL:HG23	2.16	0.61
1:A:36:GLY:N	1:A:54:VAL:HG23	2.16	0.61
1:A:65:LEU:C	1:A:65:LEU:HD12	2.21	0.61
1:C:65:LEU:C	1:C:65:LEU:HD12	2.21	0.61
1:G:65:LEU:C	1:G:65:LEU:HD12	2.21	0.61
1:M:133:TYR:OH	1:M:375:PHE:HB2	2.00	0.61
1:P:35:VAL:CG1	1:P:68:LYS:HB2	2.22	0.61
1:Q:133:TYR:OH	1:Q:375:PHE:HB2	2.00	0.61
1:Q:324:THR:HG21	1:S:241:GLU:CD	2.21	0.61
1:A:325:MET:CE	1:C:244:ASP:O	2.49	0.61
1:B:65:LEU:C	1:B:65:LEU:HD12	2.21	0.61
1:B:324:THR:HG21	1:D:241:GLU:CD	2.21	0.61
1:C:36:GLY:N	1:C:54:VAL:HG23	2.16	0.61
1:F:35:VAL:CG1	1:F:68:LYS:HB2	2.22	0.61
1:F:133:TYR:OH	1:F:375:PHE:HB2	2.00	0.61
1:J:61:LYS:HG2	1:J:64:ILE:HG21	1.83	0.61
1:J:324:THR:HG21	1:L:241:GLU:CD	2.21	0.61
1:R:35:VAL:CG1	1:R:68:LYS:HB2	2.22	0.61
1:R:44:MET:HG3	1:R:45:VAL:N	2.15	0.61
1:R:147:ARG:HH21	1:R:147:ARG:CG	2.12	0.61
1:S:36:GLY:N	1:S:54:VAL:HG23	2.16	0.61
1:S:324:THR:HG21	1:U:241:GLU:CD	2.21	0.61
1:U:133:TYR:OH	1:U:375:PHE:HB2	2.00	0.61
1:C:157:ASP:HB2	2:C:401:ADP:H5'1	1.83	0.61
1:C:325:MET:CE	1:E:244:ASP:O	2.49	0.61
1:E:157:ASP:HB2	2:E:401:ADP:H5'1	1.83	0.61
1:K:133:TYR:OH	1:K:375:PHE:HB2	2.00	0.61
1:M:325:MET:CE	1:O:244:ASP:O	2.49	0.61
1:P:157:ASP:HB2	2:P:401:ADP:H5'1	1.83	0.61
1:R:61:LYS:HG2	1:R:64:ILE:HG21	1.83	0.61
1:T:362:TYR:HA	1:T:366:GLY:O	2.00	0.61
1:U:157:ASP:HB2	2:U:401:ADP:H5'1	1.83	0.61
1:W:61:LYS:HG2	1:W:64:ILE:HG21	1.83	0.61
1:W:362:TYR:HA	1:W:366:GLY:O	2.00	0.61
1:B:325:MET:CE	1:D:244:ASP:O	2.49	0.60
1:C:61:LYS:HG2	1:C:64:ILE:HG21	1.83	0.60
1:E:36:GLY:N	1:E:54:VAL:HG23	2.16	0.60
1:E:61:LYS:HG2	1:E:64:ILE:HG21	1.83	0.60
1:F:143:TYR:CD1	1:F:143:TYR:C	2.75	0.60
1:F:324:THR:HG21	1:H:241:GLU:CD	2.21	0.60
1:L:61:LYS:HG2	1:L:64:ILE:HG21	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:324:THR:HG21	1:P:241:GLU:CD	2.21	0.60
1:P:61:LYS:HG2	1:P:64:ILE:HG21	1.83	0.60
1:Q:65:LEU:C	1:Q:65:LEU:HD12	2.21	0.60
1:R:132:MET:O	1:R:357:ILE:HB	2.01	0.60
1:R:157:ASP:HB2	2:R:401:ADP:H5'1	1.83	0.60
1:R:325:MET:CE	1:T:244:ASP:O	2.49	0.60
1:S:157:ASP:HB2	2:S:401:ADP:H5'1	1.83	0.60
1:S:325:MET:CE	1:U:244:ASP:O	2.49	0.60
1:T:132:MET:O	1:T:357:ILE:HB	2.01	0.60
1:U:61:LYS:HG2	1:U:64:ILE:HG21	1.83	0.60
1:U:325:MET:CE	1:W:244:ASP:O	2.49	0.60
1:B:133:TYR:OH	1:B:375:PHE:HB2	2.00	0.60
1:D:61:LYS:HG2	1:D:64:ILE:HG21	1.83	0.60
1:F:157:ASP:HB2	2:F:401:ADP:H5'1	1.83	0.60
1:H:65:LEU:C	1:H:65:LEU:HD12	2.21	0.60
1:H:157:ASP:HB2	2:H:401:ADP:H5'1	1.83	0.60
1:J:132:MET:O	1:J:357:ILE:HB	2.01	0.60
1:P:104:LEU:HB2	1:P:356:TRP:HH2	1.63	0.60
1:P:325:MET:CE	1:R:244:ASP:O	2.49	0.60
1:Q:36:GLY:N	1:Q:54:VAL:HG23	2.16	0.60
1:Q:61:LYS:HG2	1:Q:64:ILE:HG21	1.83	0.60
1:Q:132:MET:O	1:Q:357:ILE:HB	2.01	0.60
1:U:324:THR:HG21	1:W:241:GLU:CD	2.21	0.60
1:V:36:GLY:N	1:V:54:VAL:HG23	2.16	0.60
1:W:65:LEU:C	1:W:65:LEU:HD12	2.21	0.60
1:A:324:THR:HG21	1:C:241:GLU:CD	2.21	0.60
1:A:362:TYR:HA	1:A:366:GLY:O	2.00	0.60
1:D:324:THR:HG21	1:F:241:GLU:CD	2.21	0.60
1:E:288:ASP:HA	1:G:243:PRO:HB2	1.83	0.60
1:E:325:MET:CE	1:G:244:ASP:O	2.49	0.60
1:F:65:LEU:C	1:F:65:LEU:HD12	2.21	0.60
1:G:133:TYR:OH	1:G:375:PHE:HB2	2.00	0.60
1:H:61:LYS:HG2	1:H:64:ILE:HG21	1.83	0.60
1:I:288:ASP:HA	1:K:243:PRO:HB2	1.83	0.60
1:I:325:MET:CE	1:K:244:ASP:O	2.49	0.60
1:M:34:ILE:CD1	1:M:67:LEU:HD22	2.31	0.60
1:N:325:MET:CE	1:P:244:ASP:O	2.49	0.60
1:O:132:MET:O	1:O:357:ILE:HB	2.01	0.60
1:P:132:MET:O	1:P:357:ILE:HB	2.02	0.60
1:Q:143:TYR:CD1	1:Q:143:TYR:C	2.75	0.60
1:U:132:MET:O	1:U:357:ILE:HB	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:16:LEU:HD23	1:V:32:PRO:HA	1.83	0.60
1:V:132:MET:O	1:V:357:ILE:HB	2.01	0.60
1:A:61:LYS:HG2	1:A:64:ILE:HG21	1.83	0.60
1:A:157:ASP:HB2	2:A:401:ADP:H5'1	1.83	0.60
1:D:36:GLY:N	1:D:54:VAL:HG23	2.16	0.60
1:F:34:ILE:HB	1:F:54:VAL:HG13	1.79	0.60
1:F:61:LYS:HG2	1:F:64:ILE:HG21	1.83	0.60
1:G:36:GLY:N	1:G:54:VAL:HG23	2.16	0.60
1:H:346:LEU:O	1:H:349:LEU:HB2	2.02	0.60
1:I:346:LEU:O	1:I:349:LEU:HB2	2.02	0.60
1:N:133:TYR:OH	1:N:375:PHE:HB2	2.00	0.60
1:O:324:THR:HG21	1:Q:241:GLU:CD	2.21	0.60
1:O:346:LEU:O	1:O:349:LEU:HB2	2.02	0.60
1:Q:325:MET:CE	1:S:244:ASP:O	2.49	0.60
1:R:36:GLY:N	1:R:54:VAL:HG23	2.16	0.60
1:R:288:ASP:HA	1:T:243:PRO:HB2	1.83	0.60
1:R:346:LEU:O	1:R:349:LEU:HB2	2.02	0.60
1:S:61:LYS:HG2	1:S:64:ILE:HG21	1.83	0.60
1:S:132:MET:O	1:S:357:ILE:HB	2.01	0.60
1:T:324:THR:HG21	1:V:241:GLU:CD	2.21	0.60
1:T:325:MET:CE	1:V:244:ASP:O	2.49	0.60
1:U:34:ILE:HB	1:U:54:VAL:HG13	1.79	0.60
1:U:143:TYR:CD1	1:U:143:TYR:C	2.75	0.60
1:V:34:ILE:CD1	1:V:67:LEU:HD22	2.31	0.60
1:V:133:TYR:OH	1:V:375:PHE:HB2	2.00	0.60
1:W:157:ASP:HB2	2:W:401:ADP:H5'1	1.83	0.60
1:C:133:TYR:OH	1:C:375:PHE:HB2	2.00	0.60
1:I:36:GLY:N	1:I:54:VAL:HG23	2.16	0.60
1:J:65:LEU:C	1:J:65:LEU:HD12	2.21	0.60
1:J:133:TYR:OH	1:J:375:PHE:HB2	2.00	0.60
1:J:157:ASP:HB2	2:J:401:ADP:H5'1	1.82	0.60
1:K:288:ASP:HA	1:M:243:PRO:HB2	1.83	0.60
1:M:132:MET:O	1:M:357:ILE:HB	2.01	0.60
1:N:61:LYS:HG2	1:N:64:ILE:HG21	1.83	0.60
1:N:157:ASP:HB2	2:N:401:ADP:H5'1	1.83	0.60
1:P:36:GLY:N	1:P:54:VAL:HG23	2.16	0.60
1:P:288:ASP:HA	1:R:243:PRO:HB2	1.83	0.60
1:P:324:THR:HG21	1:R:241:GLU:CD	2.21	0.60
1:S:133:TYR:OH	1:S:375:PHE:HB2	2.00	0.60
1:T:36:GLY:N	1:T:54:VAL:HG23	2.16	0.60
1:U:65:LEU:C	1:U:65:LEU:HD12	2.21	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:346:LEU:O	1:W:349:LEU:HB2	2.02	0.60
1:A:132:MET:O	1:A:357:ILE:HB	2.01	0.60
1:B:36:GLY:N	1:B:54:VAL:HG23	2.16	0.60
1:B:346:LEU:O	1:B:349:LEU:HB2	2.02	0.60
1:C:346:LEU:O	1:C:349:LEU:HB2	2.02	0.60
1:G:61:LYS:HG2	1:G:64:ILE:HG21	1.83	0.60
1:G:325:MET:CE	1:I:244:ASP:O	2.49	0.60
1:I:34:ILE:CD1	1:I:67:LEU:HD22	2.31	0.60
1:K:16:LEU:HD23	1:K:32:PRO:HA	1.83	0.60
1:L:132:MET:O	1:L:357:ILE:HB	2.01	0.60
1:L:325:MET:CE	1:N:244:ASP:O	2.49	0.60
1:N:132:MET:O	1:N:357:ILE:HB	2.01	0.60
1:U:34:ILE:CD1	1:U:67:LEU:HD22	2.31	0.60
1:B:61:LYS:HG2	1:B:64:ILE:HG21	1.83	0.60
1:C:288:ASP:HA	1:E:243:PRO:HB2	1.83	0.60
1:F:36:GLY:N	1:F:54:VAL:HG23	2.16	0.60
1:F:346:LEU:O	1:F:349:LEU:HB2	2.02	0.60
1:G:16:LEU:HD23	1:G:32:PRO:HA	1.83	0.60
1:G:288:ASP:HA	1:I:243:PRO:HB2	1.84	0.60
1:H:104:LEU:HB2	1:H:356:TRP:HH2	1.63	0.60
1:I:61:LYS:HG2	1:I:64:ILE:HG21	1.83	0.60
1:K:132:MET:O	1:K:357:ILE:HB	2.01	0.60
1:K:325:MET:CE	1:M:244:ASP:O	2.49	0.60
1:N:36:GLY:N	1:N:54:VAL:HG23	2.16	0.60
1:N:65:LEU:C	1:N:65:LEU:HD12	2.21	0.60
1:O:61:LYS:HG2	1:O:64:ILE:HG21	1.83	0.60
1:P:346:LEU:O	1:P:349:LEU:HB2	2.02	0.60
1:Q:346:LEU:O	1:Q:349:LEU:HB2	2.02	0.60
1:R:34:ILE:CD1	1:R:67:LEU:HD22	2.31	0.60
1:R:324:THR:HG21	1:T:241:GLU:CD	2.21	0.60
1:S:34:ILE:HB	1:S:54:VAL:HG13	1.79	0.60
1:S:65:LEU:C	1:S:65:LEU:HD12	2.21	0.60
1:U:44:MET:HG3	1:U:45:VAL:N	2.15	0.60
1:A:346:LEU:O	1:A:349:LEU:HB2	2.02	0.60
1:C:324:THR:CG2	1:E:241:GLU:OE2	2.50	0.60
1:D:65:LEU:C	1:D:65:LEU:HD12	2.21	0.60
1:D:132:MET:O	1:D:357:ILE:HB	2.01	0.60
1:E:16:LEU:HD23	1:E:32:PRO:HA	1.83	0.60
1:E:133:TYR:OH	1:E:375:PHE:HB2	2.00	0.60
1:F:325:MET:CE	1:H:244:ASP:O	2.49	0.60
1:J:325:MET:CE	1:L:244:ASP:O	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:346:LEU:O	1:K:349:LEU:HB2	2.02	0.60
1:L:65:LEU:C	1:L:65:LEU:HD12	2.21	0.60
1:L:133:TYR:OH	1:L:375:PHE:HB2	2.00	0.60
1:L:324:THR:HG21	1:N:241:GLU:CD	2.21	0.60
1:M:16:LEU:HD23	1:M:32:PRO:HA	1.83	0.60
1:O:34:ILE:HB	1:O:54:VAL:HG13	1.80	0.60
1:P:133:TYR:OH	1:P:375:PHE:HB2	2.00	0.60
1:T:61:LYS:HG2	1:T:64:ILE:HG21	1.83	0.60
1:U:346:LEU:O	1:U:349:LEU:HB2	2.02	0.60
1:V:61:LYS:HG2	1:V:64:ILE:HG21	1.83	0.60
1:W:132:MET:O	1:W:357:ILE:HB	2.01	0.60
1:A:34:ILE:HB	1:A:54:VAL:HG13	1.80	0.60
1:C:132:MET:O	1:C:357:ILE:HB	2.01	0.60
1:E:34:ILE:CD1	1:E:67:LEU:HD22	2.31	0.60
1:E:65:LEU:HD12	1:E:65:LEU:C	2.21	0.60
1:G:34:ILE:CD1	1:G:67:LEU:HD22	2.32	0.60
1:H:133:TYR:OH	1:H:375:PHE:HB2	2.00	0.60
1:I:132:MET:O	1:I:357:ILE:HB	2.01	0.60
1:I:324:THR:HG21	1:K:241:GLU:CD	2.21	0.60
1:I:324:THR:CG2	1:K:241:GLU:OE2	2.50	0.60
1:J:143:TYR:CD1	1:J:143:TYR:C	2.75	0.60
1:K:34:ILE:CD1	1:K:67:LEU:HD22	2.31	0.60
1:K:61:LYS:HG2	1:K:64:ILE:HG21	1.83	0.60
1:L:34:ILE:CD1	1:L:67:LEU:HD22	2.31	0.60
1:M:346:LEU:O	1:M:349:LEU:HB2	2.02	0.60
1:N:34:ILE:CD1	1:N:67:LEU:HD22	2.31	0.60
1:R:133:TYR:OH	1:R:375:PHE:HB2	2.00	0.60
1:R:324:THR:CG2	1:T:241:GLU:OE2	2.50	0.60
1:S:34:ILE:CD1	1:S:67:LEU:HD22	2.31	0.60
1:T:288:ASP:HA	1:V:243:PRO:HB2	1.84	0.60
1:T:324:THR:CG2	1:V:241:GLU:OE2	2.50	0.60
1:T:346:LEU:O	1:T:349:LEU:HB2	2.02	0.60
1:A:287:ILE:CD1	1:C:208:ILE:CD1	2.80	0.60
1:E:132:MET:O	1:E:357:ILE:HB	2.01	0.60
1:G:132:MET:O	1:G:357:ILE:HB	2.01	0.60
1:G:324:THR:HG21	1:I:241:GLU:CD	2.21	0.60
1:H:36:GLY:N	1:H:54:VAL:HG23	2.16	0.60
1:J:36:GLY:N	1:J:54:VAL:HG23	2.16	0.60
1:J:346:LEU:O	1:J:349:LEU:HB2	2.02	0.60
1:N:346:LEU:O	1:N:349:LEU:HB2	2.02	0.60
1:O:325:MET:CE	1:Q:244:ASP:O	2.49	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:104:LEU:HB2	1:V:356:TRP:HH2	1.63	0.60
1:W:104:LEU:HB2	1:W:356:TRP:HH2	1.62	0.60
1:W:133:TYR:OH	1:W:375:PHE:HB2	2.00	0.60
1:C:34:ILE:CD1	1:C:67:LEU:HD22	2.31	0.59
1:D:325:MET:CE	1:F:244:ASP:O	2.49	0.59
1:E:324:THR:CG2	1:G:241:GLU:OE2	2.50	0.59
1:E:346:LEU:O	1:E:349:LEU:HB2	2.02	0.59
1:F:34:ILE:CD1	1:F:67:LEU:HD22	2.31	0.59
1:F:132:MET:O	1:F:357:ILE:HB	2.01	0.59
1:J:34:ILE:CD1	1:J:67:LEU:HD22	2.31	0.59
1:K:8:LEU:HB3	1:K:103:THR:HG23	1.84	0.59
1:L:36:GLY:N	1:L:54:VAL:HG23	2.16	0.59
1:M:8:LEU:HB3	1:M:103:THR:HG23	1.84	0.59
1:O:8:LEU:HB3	1:O:103:THR:HG23	1.84	0.59
1:R:16:LEU:HD23	1:R:32:PRO:HA	1.83	0.59
1:S:104:LEU:HB2	1:S:356:TRP:HH2	1.63	0.59
1:W:34:ILE:CD1	1:W:67:LEU:HD22	2.31	0.59
1:B:34:ILE:CD1	1:B:67:LEU:HD22	2.31	0.59
1:D:34:ILE:CD1	1:D:67:LEU:HD22	2.31	0.59
1:D:346:LEU:O	1:D:349:LEU:HB2	2.02	0.59
1:G:324:THR:CG2	1:I:241:GLU:OE2	2.50	0.59
1:H:16:LEU:HD23	1:H:32:PRO:HA	1.83	0.59
1:H:43:VAL:O	1:H:44:MET:CG	2.51	0.59
1:H:325:MET:CE	1:J:244:ASP:O	2.49	0.59
1:J:287:ILE:CD1	1:L:208:ILE:CD1	2.80	0.59
1:K:324:THR:HG21	1:M:241:GLU:CD	2.21	0.59
1:L:43:VAL:O	1:L:44:MET:CG	2.51	0.59
1:L:157:ASP:HB2	2:L:401:ADP:H5'1	1.83	0.59
1:M:288:ASP:HA	1:O:243:PRO:HB2	1.83	0.59
1:T:43:VAL:O	1:T:44:MET:CG	2.51	0.59
1:U:16:LEU:HD23	1:U:32:PRO:HA	1.83	0.59
1:V:43:VAL:O	1:V:44:MET:CG	2.51	0.59
1:A:34:ILE:CD1	1:A:67:LEU:HD22	2.31	0.59
1:A:43:VAL:O	1:A:44:MET:CG	2.51	0.59
1:B:16:LEU:HD23	1:B:32:PRO:HA	1.83	0.59
1:E:324:THR:HG21	1:G:241:GLU:CD	2.21	0.59
1:F:16:LEU:HD23	1:F:32:PRO:HA	1.83	0.59
1:F:43:VAL:O	1:F:44:MET:CG	2.51	0.59
1:G:104:LEU:HB2	1:G:356:TRP:HH2	1.63	0.59
1:H:132:MET:O	1:H:357:ILE:HB	2.01	0.59
1:I:34:ILE:HB	1:I:54:VAL:HG13	1.79	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:43:VAL:O	1:J:44:MET:CG	2.51	0.59
1:L:16:LEU:HD23	1:L:32:PRO:HA	1.83	0.59
1:L:34:ILE:HB	1:L:54:VAL:HG13	1.80	0.59
1:M:36:GLY:N	1:M:54:VAL:HG23	2.16	0.59
1:M:61:LYS:HG2	1:M:64:ILE:HG21	1.83	0.59
1:P:43:VAL:O	1:P:44:MET:CG	2.51	0.59
1:S:324:THR:CG2	1:U:241:GLU:OE2	2.50	0.59
1:W:16:LEU:HD23	1:W:32:PRO:HA	1.83	0.59
1:A:133:TYR:OH	1:A:375:PHE:HB2	2.00	0.59
1:B:208:ILE:HD11	1:B:243:PRO:HG2	1.85	0.59
1:E:43:VAL:O	1:E:44:MET:CG	2.51	0.59
1:H:44:MET:HG3	1:H:45:VAL:N	2.15	0.59
1:I:8:LEU:HB3	1:I:103:THR:HG23	1.84	0.59
1:J:16:LEU:HD23	1:J:32:PRO:HA	1.83	0.59
1:M:290:ARG:HH11	1:O:244:ASP:CB	2.16	0.59
1:N:288:ASP:HA	1:P:243:PRO:HB2	1.83	0.59
1:U:287:ILE:CD1	1:W:208:ILE:CD1	2.80	0.59
1:V:346:LEU:O	1:V:349:LEU:HB2	2.02	0.59
1:A:324:THR:CG2	1:C:241:GLU:OE2	2.50	0.59
1:B:132:MET:O	1:B:357:ILE:HB	2.01	0.59
1:D:143:TYR:CD1	1:D:143:TYR:C	2.75	0.59
1:G:346:LEU:O	1:G:349:LEU:HB2	2.02	0.59
1:H:324:THR:CG2	1:J:241:GLU:OE2	2.50	0.59
1:I:361:GLU:HB3	1:I:369:ILE:CD1	2.14	0.59
1:J:324:THR:CG2	1:L:241:GLU:OE2	2.50	0.59
1:K:324:THR:CG2	1:M:241:GLU:OE2	2.50	0.59
1:N:324:THR:CG2	1:P:241:GLU:OE2	2.50	0.59
1:O:143:TYR:CD1	1:O:143:TYR:C	2.75	0.59
1:P:16:LEU:HD23	1:P:32:PRO:HA	1.83	0.59
1:Q:8:LEU:HB3	1:Q:103:THR:HG23	1.84	0.59
1:R:43:VAL:O	1:R:44:MET:CG	2.51	0.59
1:T:34:ILE:CD1	1:T:67:LEU:HD22	2.31	0.59
1:T:362:TYR:O	1:T:366:GLY:CA	2.51	0.59
1:W:43:VAL:O	1:W:44:MET:CG	2.51	0.59
1:A:288:ASP:HA	1:C:243:PRO:HB2	1.84	0.59
1:B:288:ASP:HA	1:D:243:PRO:HB2	1.83	0.59
1:C:64:ILE:HG23	1:C:65:LEU:N	2.18	0.59
1:C:287:ILE:CD1	1:E:208:ILE:CD1	2.80	0.59
1:D:208:ILE:HD11	1:D:243:PRO:HG2	1.85	0.59
1:F:208:ILE:HD11	1:F:243:PRO:HG2	1.85	0.59
1:I:143:TYR:CD1	1:I:143:TYR:C	2.75	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:287:ILE:HG13	1:J:288:ASP:OD1	2.03	0.59
1:K:143:TYR:CD1	1:K:143:TYR:C	2.75	0.59
1:L:287:ILE:HG13	1:L:288:ASP:OD1	2.03	0.59
1:L:288:ASP:HA	1:N:243:PRO:HB2	1.83	0.59
1:O:287:ILE:HG13	1:O:288:ASP:OD1	2.03	0.59
1:Q:34:ILE:CD1	1:Q:67:LEU:HD22	2.31	0.59
1:R:34:ILE:HB	1:R:54:VAL:HG13	1.79	0.59
1:R:64:ILE:HG23	1:R:65:LEU:N	2.18	0.59
1:U:324:THR:CG2	1:W:241:GLU:OE2	2.50	0.59
1:C:324:THR:HG21	1:E:241:GLU:CD	2.21	0.59
1:D:43:VAL:O	1:D:44:MET:CG	2.51	0.59
1:D:287:ILE:HG13	1:D:288:ASP:OD1	2.03	0.59
1:D:290:ARG:HH11	1:F:244:ASP:CB	2.16	0.59
1:E:143:TYR:CD1	1:E:143:TYR:C	2.75	0.59
1:G:64:ILE:HG23	1:G:65:LEU:N	2.18	0.59
1:H:34:ILE:CD1	1:H:67:LEU:HD22	2.32	0.59
1:H:287:ILE:HG13	1:H:288:ASP:OD1	2.03	0.59
1:L:346:LEU:O	1:L:349:LEU:HB2	2.02	0.59
1:L:362:TYR:O	1:L:366:GLY:CA	2.51	0.59
1:N:43:VAL:O	1:N:44:MET:CG	2.51	0.59
1:N:104:LEU:HB2	1:N:356:TRP:HH2	1.63	0.59
1:N:362:TYR:O	1:N:366:GLY:CA	2.51	0.59
1:O:288:ASP:HA	1:Q:243:PRO:HB2	1.84	0.59
1:P:34:ILE:CD1	1:P:67:LEU:HD22	2.31	0.59
1:R:362:TYR:O	1:R:366:GLY:CA	2.51	0.59
1:S:16:LEU:HD23	1:S:32:PRO:HA	1.83	0.59
1:B:43:VAL:O	1:B:44:MET:CG	2.51	0.59
1:B:324:THR:CG2	1:D:241:GLU:OE2	2.50	0.59
1:C:362:TYR:O	1:C:366:GLY:CA	2.51	0.59
1:E:287:ILE:CD1	1:G:208:ILE:CD1	2.80	0.59
1:F:288:ASP:HA	1:H:243:PRO:HB2	1.84	0.59
1:H:288:ASP:HA	1:J:243:PRO:HB2	1.83	0.59
1:I:287:ILE:HG13	1:I:288:ASP:OD1	2.03	0.59
1:J:288:ASP:HA	1:L:243:PRO:HB2	1.83	0.59
1:L:64:ILE:HG23	1:L:65:LEU:N	2.18	0.59
1:N:287:ILE:HG13	1:N:288:ASP:OD1	2.03	0.59
1:P:287:ILE:CD1	1:R:208:ILE:CD1	2.80	0.59
1:Q:324:THR:CG2	1:S:241:GLU:OE2	2.50	0.59
1:S:361:GLU:HB3	1:S:369:ILE:CD1	2.14	0.59
1:T:143:TYR:CD1	1:T:143:TYR:C	2.75	0.59
1:U:288:ASP:HA	1:W:243:PRO:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:16:LEU:HD23	1:A:32:PRO:HA	1.83	0.59
1:A:362:TYR:O	1:A:366:GLY:CA	2.51	0.59
1:D:288:ASP:HA	1:F:243:PRO:HB2	1.84	0.59
1:E:287:ILE:HG13	1:E:288:ASP:OD1	2.03	0.59
1:G:287:ILE:HG13	1:G:288:ASP:OD1	2.03	0.59
1:G:362:TYR:O	1:G:366:GLY:CA	2.51	0.59
1:L:8:LEU:HB3	1:L:103:THR:HG23	1.84	0.59
1:M:324:THR:HG21	1:O:241:GLU:CD	2.21	0.59
1:O:34:ILE:CD1	1:O:67:LEU:HD22	2.31	0.59
1:O:223:PHE:CE1	1:O:259:GLU:HG2	2.38	0.59
1:P:287:ILE:HG13	1:P:288:ASP:OD1	2.03	0.59
1:P:362:TYR:O	1:P:366:GLY:CA	2.51	0.59
1:R:287:ILE:CD1	1:T:208:ILE:CD1	2.80	0.59
1:S:8:LEU:HB3	1:S:103:THR:HG23	1.84	0.59
1:S:287:ILE:CD1	1:U:208:ILE:CD1	2.80	0.59
1:S:288:ASP:HA	1:U:243:PRO:HB2	1.83	0.59
1:S:346:LEU:O	1:S:349:LEU:HB2	2.02	0.59
1:U:43:VAL:O	1:U:44:MET:CG	2.51	0.59
1:C:223:PHE:CE1	1:C:259:GLU:HG2	2.38	0.59
1:C:287:ILE:HG13	1:C:288:ASP:OD1	2.03	0.59
1:D:223:PHE:CE1	1:D:259:GLU:HG2	2.38	0.59
1:F:287:ILE:CD1	1:H:208:ILE:CD1	2.80	0.59
1:F:287:ILE:HG13	1:F:288:ASP:OD1	2.03	0.59
1:G:43:VAL:O	1:G:44:MET:CG	2.51	0.59
1:G:290:ARG:HH11	1:I:244:ASP:CB	2.16	0.59
1:H:208:ILE:HD11	1:H:243:PRO:HG2	1.85	0.59
1:I:16:LEU:HD23	1:I:32:PRO:HA	1.83	0.59
1:I:43:VAL:O	1:I:44:MET:CG	2.51	0.59
1:K:290:ARG:HH11	1:M:244:ASP:CB	2.16	0.59
1:L:223:PHE:CE1	1:L:259:GLU:HG2	2.38	0.59
1:N:8:LEU:HB3	1:N:103:THR:HG23	1.84	0.59
1:Q:287:ILE:CD1	1:S:208:ILE:CD1	2.80	0.59
1:R:287:ILE:HG13	1:R:288:ASP:OD1	2.03	0.59
1:T:287:ILE:HG13	1:T:288:ASP:OD1	2.03	0.59
1:U:223:PHE:CE1	1:U:259:GLU:HG2	2.38	0.59
1:U:287:ILE:HG13	1:U:288:ASP:OD1	2.03	0.59
1:V:8:LEU:HB3	1:V:103:THR:HG23	1.84	0.59
1:W:64:ILE:HG23	1:W:65:LEU:N	2.18	0.59
1:W:223:PHE:CE1	1:W:259:GLU:HG2	2.38	0.59
1:A:8:LEU:HB3	1:A:103:THR:HG23	1.84	0.58
1:A:64:ILE:HG23	1:A:65:LEU:N	2.18	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:143:TYR:CD1	1:A:143:TYR:C	2.75	0.58
1:A:223:PHE:CE1	1:A:259:GLU:HG2	2.38	0.58
1:B:8:LEU:HB3	1:B:103:THR:HG23	1.84	0.58
1:E:362:TYR:O	1:E:366:GLY:CA	2.51	0.58
1:F:324:THR:CG2	1:H:241:GLU:OE2	2.50	0.58
1:I:223:PHE:CE1	1:I:259:GLU:HG2	2.38	0.58
1:I:362:TYR:O	1:I:366:GLY:CA	2.51	0.58
1:J:223:PHE:CE1	1:J:259:GLU:HG2	2.38	0.58
1:J:362:TYR:O	1:J:366:GLY:CA	2.51	0.58
1:N:16:LEU:HD23	1:N:32:PRO:HA	1.83	0.58
1:N:64:ILE:HG23	1:N:65:LEU:N	2.18	0.58
1:O:324:THR:CG2	1:Q:241:GLU:OE2	2.50	0.58
1:P:64:ILE:HG23	1:P:65:LEU:N	2.18	0.58
1:P:223:PHE:CE1	1:P:259:GLU:HG2	2.38	0.58
1:P:324:THR:HG21	1:R:241:GLU:OE2	2.03	0.58
1:Q:16:LEU:HD23	1:Q:32:PRO:HA	1.83	0.58
1:Q:288:ASP:HA	1:S:243:PRO:HB2	1.84	0.58
1:S:43:VAL:O	1:S:44:MET:CG	2.51	0.58
1:S:143:TYR:CD1	1:S:143:TYR:C	2.75	0.58
1:T:16:LEU:HD23	1:T:32:PRO:HA	1.83	0.58
1:T:290:ARG:HH11	1:V:244:ASP:CB	2.16	0.58
1:V:64:ILE:HG23	1:V:65:LEU:N	2.18	0.58
1:V:143:TYR:CD1	1:V:143:TYR:C	2.75	0.58
1:V:362:TYR:O	1:V:366:GLY:CA	2.51	0.58
1:C:43:VAL:O	1:C:44:MET:CG	2.51	0.58
1:D:16:LEU:HD23	1:D:32:PRO:HA	1.83	0.58
1:D:324:THR:CG2	1:F:241:GLU:OE2	2.50	0.58
1:E:290:ARG:HH11	1:G:244:ASP:CB	2.16	0.58
1:F:223:PHE:CE1	1:F:259:GLU:HG2	2.38	0.58
1:G:8:LEU:HB3	1:G:103:THR:HG23	1.84	0.58
1:K:223:PHE:CE1	1:K:259:GLU:HG2	2.38	0.58
1:L:324:THR:CG2	1:N:241:GLU:OE2	2.50	0.58
1:M:324:THR:CG2	1:O:241:GLU:OE2	2.50	0.58
1:N:324:THR:HG21	1:P:241:GLU:OE2	2.03	0.58
1:O:290:ARG:HH11	1:Q:244:ASP:CB	2.16	0.58
1:P:324:THR:CG2	1:R:241:GLU:OE2	2.50	0.58
1:Q:223:PHE:CE1	1:Q:259:GLU:HG2	2.38	0.58
1:Q:287:ILE:HG13	1:Q:288:ASP:OD1	2.03	0.58
1:R:324:THR:HG21	1:T:241:GLU:OE2	2.03	0.58
1:T:8:LEU:HB3	1:T:103:THR:HG23	1.84	0.58
1:U:208:ILE:HD11	1:U:243:PRO:HG2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:208:ILE:HD11	1:W:243:PRO:HG2	1.85	0.58
1:A:287:ILE:HG13	1:A:288:ASP:OD1	2.03	0.58
1:E:223:PHE:CE1	1:E:259:GLU:HG2	2.38	0.58
1:G:143:TYR:CD1	1:G:143:TYR:C	2.75	0.58
1:M:324:THR:HG21	1:O:241:GLU:OE2	2.03	0.58
1:N:223:PHE:CE1	1:N:259:GLU:HG2	2.38	0.58
1:O:38:PRO:CD	1:O:49:GLN:HE22	2.17	0.58
1:P:143:TYR:CD1	1:P:143:TYR:C	2.75	0.58
1:Q:44:MET:HG3	1:Q:45:VAL:N	2.15	0.58
1:S:290:ARG:HH11	1:U:244:ASP:CB	2.16	0.58
1:T:324:THR:HG21	1:V:241:GLU:OE2	2.03	0.58
1:V:287:ILE:HG13	1:V:288:ASP:OD1	2.03	0.58
1:W:34:ILE:HB	1:W:54:VAL:HG13	1.79	0.58
1:A:336:LYS:CE	2:A:401:ADP:H5'2	2.34	0.58
1:B:38:PRO:CD	1:B:49:GLN:HE22	2.17	0.58
1:F:104:LEU:HB2	1:F:356:TRP:HH2	1.63	0.58
1:H:143:TYR:CD1	1:H:143:TYR:C	2.75	0.58
1:K:38:PRO:CD	1:K:49:GLN:HE22	2.17	0.58
1:K:43:VAL:O	1:K:44:MET:CG	2.51	0.58
1:M:287:ILE:HG13	1:M:288:ASP:OD1	2.03	0.58
1:N:290:ARG:HH11	1:P:244:ASP:CB	2.16	0.58
1:R:336:LYS:CE	2:R:401:ADP:H5'2	2.34	0.58
1:S:208:ILE:HD11	1:S:243:PRO:HG2	1.85	0.58
1:V:208:ILE:HD11	1:V:243:PRO:HG2	1.85	0.58
1:V:223:PHE:CE1	1:V:259:GLU:HG2	2.38	0.58
1:W:362:TYR:O	1:W:366:GLY:CA	2.51	0.58
1:B:290:ARG:HH11	1:D:244:ASP:CB	2.16	0.58
1:E:324:THR:HG21	1:G:241:GLU:OE2	2.04	0.58
1:H:64:ILE:HG23	1:H:65:LEU:N	2.18	0.58
1:H:287:ILE:CD1	1:J:208:ILE:CD1	2.80	0.58
1:H:362:TYR:O	1:H:366:GLY:CA	2.51	0.58
1:I:324:THR:HG21	1:K:241:GLU:OE2	2.04	0.58
1:J:8:LEU:HB3	1:J:103:THR:HG23	1.84	0.58
1:K:324:THR:HG21	1:M:241:GLU:OE2	2.04	0.58
1:L:324:THR:HG21	1:N:241:GLU:OE2	2.04	0.58
1:O:43:VAL:O	1:O:44:MET:CG	2.51	0.58
1:P:8:LEU:HB3	1:P:103:THR:HG23	1.84	0.58
1:P:290:ARG:HH11	1:R:244:ASP:CB	2.16	0.58
1:P:336:LYS:CE	2:P:401:ADP:H5'2	2.34	0.58
1:R:8:LEU:HB3	1:R:103:THR:HG23	1.84	0.58
1:S:38:PRO:CD	1:S:49:GLN:HE22	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:64:ILE:HG23	1:B:65:LEU:N	2.18	0.58
1:B:287:ILE:HG13	1:B:288:ASP:OD1	2.03	0.58
1:C:34:ILE:HB	1:C:54:VAL:HG13	1.79	0.58
1:H:8:LEU:HB3	1:H:103:THR:HG23	1.84	0.58
1:H:290:ARG:HH11	1:J:244:ASP:CB	2.16	0.58
1:I:290:ARG:HH11	1:K:244:ASP:CB	2.16	0.58
1:J:208:ILE:HD11	1:J:243:PRO:HG2	1.85	0.58
1:K:287:ILE:HG13	1:K:288:ASP:OD1	2.03	0.58
1:K:362:TYR:O	1:K:366:GLY:CA	2.51	0.58
1:M:223:PHE:CE1	1:M:259:GLU:HG2	2.38	0.58
1:N:4:GLU:O	1:N:5:THR:HB	2.04	0.58
1:O:287:ILE:CD1	1:Q:208:ILE:CD1	2.80	0.58
1:O:324:THR:HG21	1:Q:241:GLU:OE2	2.04	0.58
1:O:362:TYR:O	1:O:366:GLY:CA	2.51	0.58
1:Q:38:PRO:CD	1:Q:49:GLN:HE22	2.17	0.58
1:Q:208:ILE:HD11	1:Q:243:PRO:HG2	1.85	0.58
1:Q:290:ARG:HH11	1:S:244:ASP:CB	2.16	0.58
1:T:223:PHE:CE1	1:T:259:GLU:HG2	2.38	0.58
1:W:8:LEU:HB3	1:W:103:THR:HG23	1.84	0.58
1:W:336:LYS:CE	2:W:401:ADP:H5'2	2.34	0.58
1:A:34:ILE:CG2	1:A:67:LEU:HB3	2.34	0.58
1:C:368:SER:O	1:C:371:HIS:N	2.37	0.58
1:F:336:LYS:CE	2:F:401:ADP:H5'2	2.34	0.58
1:H:336:LYS:CE	2:H:401:ADP:H5'2	2.34	0.58
1:J:290:ARG:HH11	1:L:244:ASP:CB	2.16	0.58
1:J:324:THR:HG21	1:L:241:GLU:OE2	2.03	0.58
1:M:38:PRO:CD	1:M:49:GLN:HE22	2.17	0.58
1:P:4:GLU:O	1:P:5:THR:HB	2.04	0.58
1:Q:43:VAL:O	1:Q:44:MET:CG	2.51	0.58
1:R:4:GLU:O	1:R:5:THR:HB	2.04	0.58
1:T:336:LYS:CE	2:T:401:ADP:H5'2	2.34	0.58
1:U:8:LEU:HB3	1:U:103:THR:HG23	1.84	0.58
1:U:362:TYR:O	1:U:366:GLY:CA	2.51	0.58
1:B:223:PHE:CE1	1:B:259:GLU:HG2	2.38	0.58
1:C:34:ILE:CG2	1:C:67:LEU:HB3	2.34	0.58
1:D:362:TYR:O	1:D:366:GLY:CA	2.51	0.58
1:I:38:PRO:CD	1:I:49:GLN:HE22	2.17	0.58
1:J:4:GLU:O	1:J:5:THR:HB	2.04	0.58
1:N:287:ILE:CD1	1:P:208:ILE:CD1	2.80	0.58
1:O:16:LEU:HD23	1:O:32:PRO:HA	1.83	0.58
1:R:143:TYR:CD1	1:R:143:TYR:C	2.75	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:38:PRO:CD	1:V:49:GLN:HE22	2.17	0.58
1:W:4:GLU:O	1:W:5:THR:HB	2.04	0.58
1:C:4:GLU:O	1:C:5:THR:HB	2.04	0.58
1:C:8:LEU:HB3	1:C:103:THR:HG23	1.84	0.58
1:C:16:LEU:HD23	1:C:32:PRO:HA	1.83	0.58
1:G:34:ILE:HB	1:G:54:VAL:HG13	1.79	0.58
1:G:324:THR:HG21	1:I:241:GLU:OE2	2.03	0.58
1:H:38:PRO:CD	1:H:49:GLN:HE22	2.17	0.58
1:M:64:ILE:HG23	1:M:65:LEU:N	2.18	0.58
1:O:208:ILE:HD11	1:O:243:PRO:HG2	1.85	0.58
1:Q:324:THR:HG21	1:S:241:GLU:OE2	2.04	0.58
1:R:223:PHE:CE1	1:R:259:GLU:HG2	2.38	0.58
1:R:368:SER:O	1:R:371:HIS:N	2.37	0.58
1:S:287:ILE:HG13	1:S:288:ASP:OD1	2.03	0.58
1:T:38:PRO:CD	1:T:49:GLN:HE22	2.17	0.58
1:U:4:GLU:O	1:U:5:THR:HB	2.04	0.58
1:U:38:PRO:CD	1:U:49:GLN:HE22	2.17	0.58
1:B:362:TYR:O	1:B:366:GLY:CA	2.51	0.58
1:C:336:LYS:CE	2:C:401:ADP:H5'2	2.34	0.58
1:D:8:LEU:HB3	1:D:103:THR:HG23	1.84	0.58
1:E:64:ILE:HG23	1:E:65:LEU:N	2.18	0.58
1:F:290:ARG:HH11	1:H:244:ASP:CB	2.16	0.58
1:G:287:ILE:CD1	1:I:208:ILE:CD1	2.80	0.58
1:I:4:GLU:O	1:I:5:THR:HB	2.04	0.58
1:K:64:ILE:HG23	1:K:65:LEU:N	2.18	0.58
1:M:43:VAL:O	1:M:44:MET:CG	2.51	0.58
1:N:336:LYS:CE	2:N:401:ADP:H5'2	2.34	0.58
1:Q:64:ILE:HG23	1:Q:65:LEU:N	2.18	0.58
1:Q:104:LEU:HB2	1:Q:356:TRP:HH2	1.63	0.58
1:R:34:ILE:CG2	1:R:67:LEU:HB3	2.34	0.58
1:S:34:ILE:HG21	1:S:67:LEU:CB	2.34	0.58
1:S:223:PHE:CE1	1:S:259:GLU:HG2	2.38	0.58
1:S:362:TYR:O	1:S:366:GLY:CA	2.51	0.58
1:T:34:ILE:CG2	1:T:67:LEU:HB3	2.34	0.58
1:T:64:ILE:HG23	1:T:65:LEU:N	2.18	0.58
1:U:34:ILE:HG21	1:U:67:LEU:CB	2.34	0.58
1:U:336:LYS:CE	2:U:401:ADP:H5'2	2.34	0.58
1:V:34:ILE:HG21	1:V:67:LEU:CB	2.34	0.58
1:A:208:ILE:HD11	1:A:243:PRO:HG2	1.85	0.57
1:C:143:TYR:CD1	1:C:143:TYR:C	2.75	0.57
1:C:208:ILE:HD11	1:C:243:PRO:HG2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:324:THR:HG21	1:E:241:GLU:OE2	2.03	0.57
1:D:287:ILE:CD1	1:F:208:ILE:CD1	2.80	0.57
1:D:336:LYS:CE	2:D:401:ADP:H5'2	2.34	0.57
1:F:368:SER:O	1:F:371:HIS:N	2.37	0.57
1:G:208:ILE:HD11	1:G:243:PRO:HG2	1.85	0.57
1:I:336:LYS:CE	2:I:401:ADP:H5'2	2.34	0.57
1:J:38:PRO:CD	1:J:49:GLN:HE22	2.17	0.57
1:J:64:ILE:HG23	1:J:65:LEU:N	2.18	0.57
1:S:324:THR:HG21	1:U:241:GLU:OE2	2.03	0.57
1:T:208:ILE:HD11	1:T:243:PRO:HG2	1.85	0.57
1:W:34:ILE:HG21	1:W:67:LEU:CB	2.34	0.57
1:B:34:ILE:HG21	1:B:67:LEU:CB	2.34	0.57
1:C:290:ARG:HH11	1:E:244:ASP:CB	2.16	0.57
1:D:34:ILE:HG21	1:D:67:LEU:CB	2.34	0.57
1:D:38:PRO:CD	1:D:49:GLN:HE22	2.17	0.57
1:D:64:ILE:HG23	1:D:65:LEU:N	2.18	0.57
1:E:8:LEU:HB3	1:E:103:THR:HG23	1.84	0.57
1:F:8:LEU:HB3	1:F:103:THR:HG23	1.84	0.57
1:G:223:PHE:CE1	1:G:259:GLU:HG2	2.38	0.57
1:G:368:SER:O	1:G:371:HIS:N	2.37	0.57
1:H:223:PHE:CE1	1:H:259:GLU:HG2	2.38	0.57
1:I:208:ILE:HD11	1:I:243:PRO:HG2	1.85	0.57
1:J:336:LYS:CE	2:J:401:ADP:H5'2	2.34	0.57
1:K:336:LYS:CE	2:K:401:ADP:H5'2	2.34	0.57
1:K:368:SER:O	1:K:371:HIS:N	2.37	0.57
1:L:290:ARG:HH11	1:N:244:ASP:CB	2.16	0.57
1:N:143:TYR:CD1	1:N:143:TYR:C	2.75	0.57
1:Q:362:TYR:O	1:Q:366:GLY:CA	2.51	0.57
1:S:64:ILE:HG23	1:S:65:LEU:N	2.18	0.57
1:T:4:GLU:O	1:T:5:THR:HB	2.04	0.57
1:U:368:SER:O	1:U:371:HIS:N	2.37	0.57
1:A:4:GLU:O	1:A:5:THR:HB	2.04	0.57
1:A:324:THR:HG21	1:C:241:GLU:OE2	2.03	0.57
1:C:40:HIS:O	1:C:41:GLN:C	2.43	0.57
1:D:324:THR:HG21	1:F:241:GLU:OE2	2.03	0.57
1:E:208:ILE:HD11	1:E:243:PRO:HG2	1.85	0.57
1:F:38:PRO:CD	1:F:49:GLN:HE22	2.17	0.57
1:F:362:TYR:O	1:F:366:GLY:CA	2.51	0.57
1:G:4:GLU:O	1:G:5:THR:HB	2.04	0.57
1:K:4:GLU:O	1:K:5:THR:HB	2.04	0.57
1:M:336:LYS:CE	2:M:401:ADP:H5'2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:362:TYR:O	1:M:366:GLY:CA	2.51	0.57
1:Q:34:ILE:HB	1:Q:54:VAL:HG13	1.80	0.57
1:Q:34:ILE:HG21	1:Q:67:LEU:CB	2.34	0.57
1:R:290:ARG:HH11	1:T:244:ASP:CB	2.16	0.57
1:T:34:ILE:HG21	1:T:67:LEU:CB	2.34	0.57
1:V:34:ILE:CG2	1:V:67:LEU:HB3	2.34	0.57
1:V:368:SER:O	1:V:371:HIS:N	2.37	0.57
1:W:287:ILE:HG13	1:W:288:ASP:OD1	2.03	0.57
1:A:34:ILE:HG21	1:A:67:LEU:CB	2.34	0.57
1:A:290:ARG:HH11	1:C:244:ASP:CB	2.16	0.57
1:C:34:ILE:HG21	1:C:67:LEU:CB	2.34	0.57
1:D:34:ILE:CG2	1:D:67:LEU:HB3	2.34	0.57
1:G:336:LYS:CE	2:G:401:ADP:H5'2	2.34	0.57
1:H:324:THR:HG21	1:J:241:GLU:OE2	2.03	0.57
1:K:208:ILE:HD11	1:K:243:PRO:HG2	1.85	0.57
1:L:208:ILE:HD11	1:L:243:PRO:HG2	1.85	0.57
1:L:361:GLU:HB3	1:L:369:ILE:CD1	2.14	0.57
1:N:34:ILE:HG21	1:N:67:LEU:CB	2.34	0.57
1:N:40:HIS:O	1:N:41:GLN:C	2.43	0.57
1:O:34:ILE:CG2	1:O:67:LEU:HB3	2.34	0.57
1:P:34:ILE:HG21	1:P:67:LEU:CB	2.34	0.57
1:Q:34:ILE:CG2	1:Q:67:LEU:HB3	2.34	0.57
1:R:40:HIS:O	1:R:41:GLN:C	2.43	0.57
1:U:290:ARG:HH11	1:W:244:ASP:CB	2.16	0.57
1:U:324:THR:HG21	1:W:241:GLU:OE2	2.03	0.57
1:V:336:LYS:CE	2:V:401:ADP:H5'2	2.34	0.57
1:A:38:PRO:CD	1:A:49:GLN:HE22	2.17	0.57
1:B:324:THR:HG21	1:D:241:GLU:OE2	2.03	0.57
1:B:368:SER:O	1:B:371:HIS:N	2.37	0.57
1:E:34:ILE:CG2	1:E:67:LEU:HB3	2.34	0.57
1:G:40:HIS:O	1:G:41:GLN:C	2.43	0.57
1:H:143:TYR:HD2	1:H:346:LEU:HD13	1.70	0.57
1:M:34:ILE:CG2	1:M:67:LEU:HB3	2.34	0.57
1:M:208:ILE:HD11	1:M:243:PRO:HG2	1.85	0.57
1:P:34:ILE:CG2	1:P:67:LEU:HB3	2.34	0.57
1:Q:368:SER:O	1:Q:371:HIS:N	2.37	0.57
1:R:34:ILE:HG21	1:R:67:LEU:CB	2.34	0.57
1:S:34:ILE:CG2	1:S:67:LEU:HB3	2.34	0.57
1:T:287:ILE:CD1	1:V:208:ILE:CD1	2.80	0.57
1:V:4:GLU:O	1:V:5:THR:HB	2.04	0.57
1:B:34:ILE:CG2	1:B:67:LEU:HB3	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:34:ILE:HG21	1:E:67:LEU:CB	2.34	0.57
1:F:4:GLU:O	1:F:5:THR:HB	2.04	0.57
1:F:143:TYR:HD2	1:F:346:LEU:HD13	1.70	0.57
1:G:34:ILE:HG21	1:G:67:LEU:CB	2.34	0.57
1:J:40:HIS:O	1:J:41:GLN:C	2.43	0.57
1:M:34:ILE:HG21	1:M:67:LEU:CB	2.34	0.57
1:M:104:LEU:HB2	1:M:356:TRP:HH2	1.63	0.57
1:R:38:PRO:CD	1:R:49:GLN:HE22	2.17	0.57
1:U:104:LEU:HB2	1:U:356:TRP:HH2	1.63	0.57
1:B:336:LYS:CE	2:B:401:ADP:H5'2	2.34	0.57
1:C:38:PRO:CD	1:C:49:GLN:HE22	2.17	0.57
1:D:4:GLU:O	1:D:5:THR:HB	2.04	0.57
1:F:34:ILE:HG21	1:F:67:LEU:CB	2.34	0.57
1:F:34:ILE:CG2	1:F:67:LEU:HB3	2.34	0.57
1:H:4:GLU:O	1:H:5:THR:HB	2.04	0.57
1:J:34:ILE:CG2	1:J:67:LEU:HB3	2.34	0.57
1:J:143:TYR:HD2	1:J:346:LEU:HD13	1.70	0.57
1:L:34:ILE:HG21	1:L:67:LEU:CB	2.34	0.57
1:L:38:PRO:CD	1:L:49:GLN:HE22	2.17	0.57
1:O:34:ILE:HG21	1:O:67:LEU:CB	2.34	0.57
1:O:64:ILE:HG23	1:O:65:LEU:N	2.18	0.57
1:O:104:LEU:HB2	1:O:356:TRP:HH2	1.63	0.57
1:O:336:LYS:CE	2:O:401:ADP:H5'2	2.34	0.57
1:P:208:ILE:HD11	1:P:243:PRO:HG2	1.85	0.57
1:S:4:GLU:O	1:S:5:THR:HB	2.04	0.57
1:U:34:ILE:CG2	1:U:67:LEU:HB3	2.34	0.57
1:V:40:HIS:O	1:V:41:GLN:C	2.43	0.57
1:B:4:GLU:O	1:B:5:THR:HB	2.04	0.57
1:E:336:LYS:CE	2:E:401:ADP:H5'2	2.34	0.57
1:H:34:ILE:CG2	1:H:67:LEU:HB3	2.34	0.57
1:I:34:ILE:HG21	1:I:67:LEU:CB	2.34	0.57
1:K:34:ILE:CG2	1:K:67:LEU:HB3	2.34	0.57
1:K:361:GLU:HB3	1:K:369:ILE:CD1	2.14	0.57
1:L:143:TYR:CD1	1:L:143:TYR:C	2.75	0.57
1:M:287:ILE:CD1	1:O:208:ILE:CD1	2.80	0.57
1:N:208:ILE:HD11	1:N:243:PRO:HG2	1.85	0.57
1:W:34:ILE:CG2	1:W:67:LEU:HB3	2.34	0.57
1:E:38:PRO:CD	1:E:49:GLN:HE22	2.17	0.57
1:G:38:PRO:CD	1:G:49:GLN:HE22	2.17	0.57
1:K:34:ILE:HG21	1:K:67:LEU:CB	2.34	0.57
1:L:336:LYS:CE	2:L:401:ADP:H5'2	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:290:ARG:HH11	1:O:244:ASP:HB2	1.70	0.57
1:P:38:PRO:CD	1:P:49:GLN:HE22	2.17	0.57
1:R:208:ILE:HD11	1:R:243:PRO:HG2	1.85	0.57
1:S:336:LYS:CE	2:S:401:ADP:H5'2	2.34	0.57
1:D:143:TYR:HD2	1:D:346:LEU:HD13	1.70	0.57
1:F:324:THR:HG21	1:H:241:GLU:OE2	2.03	0.57
1:I:34:ILE:CG2	1:I:67:LEU:HB3	2.34	0.57
1:M:4:GLU:O	1:M:5:THR:HB	2.04	0.57
1:U:40:HIS:O	1:U:41:GLN:C	2.43	0.57
1:W:38:PRO:CD	1:W:49:GLN:HE22	2.17	0.57
1:B:143:TYR:CZ	1:D:45:VAL:CG2	2.88	0.56
1:D:143:TYR:CZ	1:F:45:VAL:CG2	2.88	0.56
1:E:4:GLU:O	1:E:5:THR:HB	2.04	0.56
1:H:34:ILE:HG21	1:H:67:LEU:CB	2.34	0.56
1:I:64:ILE:HG23	1:I:65:LEU:N	2.18	0.56
1:K:40:HIS:O	1:K:41:GLN:C	2.43	0.56
1:L:34:ILE:CG2	1:L:67:LEU:HB3	2.34	0.56
1:N:34:ILE:CG2	1:N:67:LEU:HB3	2.34	0.56
1:N:38:PRO:CD	1:N:49:GLN:HE22	2.17	0.56
1:T:290:ARG:HH11	1:V:244:ASP:HB2	1.70	0.56
1:B:287:ILE:CD1	1:D:208:ILE:CD1	2.80	0.56
1:G:34:ILE:CG2	1:G:67:LEU:HB3	2.34	0.56
1:N:361:GLU:HB3	1:N:369:ILE:CD1	2.14	0.56
1:O:290:ARG:HH11	1:Q:244:ASP:HB2	1.70	0.56
1:Q:290:ARG:HH11	1:S:244:ASP:HB2	1.70	0.56
1:Q:336:LYS:CE	2:Q:401:ADP:H5'2	2.34	0.56
1:B:361:GLU:HB3	1:B:369:ILE:CD1	2.14	0.56
1:F:40:HIS:O	1:F:41:GLN:C	2.43	0.56
1:F:64:ILE:HG23	1:F:65:LEU:N	2.18	0.56
1:F:143:TYR:CZ	1:H:45:VAL:CG2	2.88	0.56
1:F:290:ARG:HH11	1:H:244:ASP:HB2	1.71	0.56
1:G:143:TYR:CZ	1:I:45:VAL:CG2	2.88	0.56
1:J:34:ILE:HG21	1:J:67:LEU:CB	2.34	0.56
1:K:287:ILE:CD1	1:M:208:ILE:CD1	2.80	0.56
1:L:4:GLU:O	1:L:5:THR:HB	2.04	0.56
1:L:143:TYR:HD2	1:L:346:LEU:HD13	1.70	0.56
1:M:368:SER:O	1:M:371:HIS:N	2.37	0.56
1:N:143:TYR:CZ	1:P:45:VAL:CG2	2.88	0.56
1:O:4:GLU:O	1:O:5:THR:HB	2.04	0.56
1:O:143:TYR:HD2	1:O:346:LEU:HD13	1.70	0.56
1:Q:143:TYR:HD2	1:Q:346:LEU:HD13	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:290:ARG:HH11	1:U:244:ASP:HB2	1.70	0.56
1:T:40:HIS:O	1:T:41:GLN:C	2.43	0.56
1:U:64:ILE:HG23	1:U:65:LEU:N	2.18	0.56
1:I:287:ILE:CD1	1:K:208:ILE:CD1	2.80	0.56
1:K:290:ARG:HH11	1:M:244:ASP:HB2	1.70	0.56
1:L:143:TYR:CZ	1:N:45:VAL:CG2	2.88	0.56
1:P:40:HIS:O	1:P:41:GLN:C	2.43	0.56
1:P:116:ARG:HD3	1:P:370:VAL:HG13	1.88	0.56
1:A:40:HIS:O	1:A:41:GLN:C	2.43	0.56
1:C:116:ARG:HD3	1:C:370:VAL:HG13	1.88	0.56
1:D:290:ARG:HH11	1:F:244:ASP:HB2	1.70	0.56
1:E:40:HIS:O	1:E:41:GLN:C	2.43	0.56
1:E:290:ARG:HH11	1:G:244:ASP:HB2	1.70	0.56
1:I:40:HIS:O	1:I:41:GLN:C	2.43	0.56
1:M:40:HIS:O	1:M:41:GLN:C	2.43	0.56
1:P:361:GLU:HB3	1:P:369:ILE:CD1	2.14	0.56
1:Q:40:HIS:O	1:Q:41:GLN:C	2.43	0.56
1:A:143:TYR:HD2	1:A:346:LEU:HD13	1.70	0.56
1:C:290:ARG:HH11	1:E:244:ASP:HB2	1.70	0.56
1:E:116:ARG:HD3	1:E:370:VAL:HG13	1.88	0.56
1:E:368:SER:O	1:E:371:HIS:N	2.37	0.56
1:G:290:ARG:HH11	1:I:244:ASP:HB2	1.70	0.56
1:L:40:HIS:O	1:L:41:GLN:C	2.43	0.56
1:R:290:ARG:HH11	1:T:244:ASP:HB2	1.70	0.56
1:S:143:TYR:HD2	1:S:346:LEU:HD13	1.70	0.56
1:A:368:SER:O	1:A:371:HIS:N	2.37	0.56
1:H:290:ARG:HH11	1:J:244:ASP:HB2	1.71	0.56
1:I:368:SER:O	1:I:371:HIS:N	2.37	0.56
1:M:143:TYR:HD2	1:M:346:LEU:HD13	1.70	0.56
1:N:116:ARG:HD3	1:N:370:VAL:HG13	1.88	0.56
1:P:143:TYR:CZ	1:R:45:VAL:CG2	2.88	0.56
1:Q:4:GLU:O	1:Q:5:THR:HB	2.04	0.56
1:B:40:HIS:O	1:B:41:GLN:C	2.43	0.56
1:B:143:TYR:HD2	1:B:346:LEU:HD13	1.70	0.56
1:E:143:TYR:CZ	1:G:45:VAL:CG2	2.88	0.56
1:H:40:HIS:O	1:H:41:GLN:C	2.43	0.56
1:O:40:HIS:O	1:O:41:GLN:C	2.43	0.56
1:R:116:ARG:HD3	1:R:370:VAL:HG13	1.88	0.56
1:T:116:ARG:HD3	1:T:370:VAL:HG13	1.88	0.56
1:U:290:ARG:HH11	1:W:244:ASP:HB2	1.70	0.56
1:U:361:GLU:HB3	1:U:369:ILE:CD1	2.14	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:116:ARG:HD3	1:A:370:VAL:HG13	1.88	0.56
1:A:290:ARG:HH11	1:C:244:ASP:HB2	1.70	0.56
1:D:40:HIS:O	1:D:41:GLN:C	2.43	0.56
1:J:143:TYR:CZ	1:L:45:VAL:CG2	2.88	0.56
1:J:290:ARG:HH11	1:L:244:ASP:HB2	1.70	0.56
1:P:368:SER:O	1:P:371:HIS:N	2.37	0.56
1:W:40:HIS:O	1:W:41:GLN:C	2.43	0.56
1:C:143:TYR:CZ	1:E:45:VAL:CG2	2.88	0.56
1:G:116:ARG:HD3	1:G:370:VAL:HG13	1.88	0.56
1:I:290:ARG:HH11	1:K:244:ASP:HB2	1.70	0.56
1:L:290:ARG:HH11	1:N:244:ASP:HB2	1.70	0.56
1:N:34:ILE:HB	1:N:54:VAL:HG13	1.80	0.56
1:T:143:TYR:CZ	1:V:45:VAL:CG2	2.88	0.56
1:V:116:ARG:HD3	1:V:370:VAL:HG13	1.88	0.56
1:W:143:TYR:CD1	1:W:143:TYR:C	2.75	0.56
1:F:362:TYR:HE1	1:F:367:PRO:CB	2.19	0.55
1:J:34:ILE:CG2	1:J:67:LEU:HD22	2.28	0.55
1:K:121:GLN:HA	1:K:362:TYR:OH	2.07	0.55
1:R:325:MET:HE3	1:T:244:ASP:O	2.06	0.55
1:R:361:GLU:HB3	1:R:369:ILE:CD1	2.14	0.55
1:S:40:HIS:O	1:S:41:GLN:C	2.43	0.55
1:S:143:TYR:CZ	1:U:45:VAL:CG2	2.88	0.55
1:T:368:SER:O	1:T:371:HIS:N	2.37	0.55
1:U:143:TYR:CZ	1:W:45:VAL:CG2	2.88	0.55
1:A:143:TYR:CZ	1:C:45:VAL:CG2	2.88	0.55
1:B:290:ARG:HH11	1:D:244:ASP:HB2	1.71	0.55
1:B:362:TYR:HE1	1:B:367:PRO:CB	2.19	0.55
1:D:325:MET:HE3	1:F:244:ASP:O	2.06	0.55
1:F:325:MET:HE3	1:H:244:ASP:O	2.07	0.55
1:J:121:GLN:HA	1:J:362:TYR:OH	2.07	0.55
1:K:37:ARG:CG	1:K:38:PRO:CD	2.83	0.55
1:L:54:VAL:O	1:L:55:GLY:C	2.45	0.55
1:L:116:ARG:HD3	1:L:370:VAL:HG13	1.88	0.55
1:L:121:GLN:HA	1:L:362:TYR:OH	2.07	0.55
1:Q:116:ARG:HD3	1:Q:370:VAL:HG13	1.88	0.55
1:Q:121:GLN:HA	1:Q:362:TYR:OH	2.07	0.55
1:Q:143:TYR:CZ	1:S:45:VAL:CG2	2.88	0.55
1:T:121:GLN:HA	1:T:362:TYR:OH	2.07	0.55
1:A:54:VAL:O	1:A:55:GLY:C	2.45	0.55
1:A:110:LEU:HD12	1:A:177:ARG:HH11	1.72	0.55
1:C:110:LEU:HD12	1:C:177:ARG:HH11	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:121:GLN:HA	1:C:362:TYR:OH	2.07	0.55
1:C:143:TYR:HD2	1:C:346:LEU:HD13	1.70	0.55
1:D:116:ARG:HD3	1:D:370:VAL:HG13	1.88	0.55
1:I:116:ARG:HD3	1:I:370:VAL:HG13	1.88	0.55
1:I:325:MET:HE3	1:K:244:ASP:O	2.07	0.55
1:L:368:SER:O	1:L:371:HIS:N	2.37	0.55
1:N:121:GLN:HA	1:N:362:TYR:OH	2.07	0.55
1:N:290:ARG:HH11	1:P:244:ASP:HB2	1.70	0.55
1:S:121:GLN:HA	1:S:362:TYR:OH	2.07	0.55
1:T:325:MET:HE3	1:V:244:ASP:O	2.06	0.55
1:U:143:TYR:HD2	1:U:346:LEU:HD13	1.70	0.55
1:W:54:VAL:O	1:W:55:GLY:C	2.45	0.55
1:B:121:GLN:HA	1:B:362:TYR:OH	2.07	0.55
1:K:325:MET:HE3	1:M:244:ASP:O	2.07	0.55
1:M:325:MET:HE3	1:O:244:ASP:O	2.07	0.55
1:O:116:ARG:HD3	1:O:370:VAL:HG13	1.88	0.55
1:A:325:MET:HE3	1:C:244:ASP:O	2.06	0.55
1:B:116:ARG:HD3	1:B:370:VAL:HG13	1.88	0.55
1:B:325:MET:HE3	1:D:244:ASP:O	2.07	0.55
1:E:121:GLN:HA	1:E:362:TYR:OH	2.07	0.55
1:F:54:VAL:O	1:F:55:GLY:C	2.45	0.55
1:H:325:MET:HE3	1:J:244:ASP:O	2.06	0.55
1:J:37:ARG:CG	1:J:38:PRO:CD	2.83	0.55
1:J:116:ARG:HD3	1:J:370:VAL:HG13	1.88	0.55
1:N:143:TYR:CZ	1:N:345:ILE:HG22	2.42	0.55
1:T:110:LEU:HD12	1:T:177:ARG:HH11	1.72	0.55
1:U:121:GLN:HA	1:U:362:TYR:OH	2.07	0.55
1:V:110:LEU:HD12	1:V:177:ARG:HH11	1.72	0.55
1:B:32:PRO:HG3	1:B:59:GLN:NE2	2.22	0.55
1:E:37:ARG:CG	1:E:38:PRO:CD	2.83	0.55
1:E:143:TYR:CZ	1:E:345:ILE:HG22	2.42	0.55
1:E:325:MET:HE3	1:G:244:ASP:O	2.06	0.55
1:H:54:VAL:O	1:H:55:GLY:C	2.45	0.55
1:H:121:GLN:HA	1:H:362:TYR:OH	2.07	0.55
1:K:143:TYR:HD2	1:K:346:LEU:HD13	1.70	0.55
1:O:121:GLN:HA	1:O:362:TYR:OH	2.07	0.55
1:O:143:TYR:CZ	1:Q:45:VAL:CG2	2.88	0.55
1:P:121:GLN:HA	1:P:362:TYR:OH	2.07	0.55
1:P:143:TYR:CZ	1:P:345:ILE:HG22	2.42	0.55
1:Q:32:PRO:HG3	1:Q:59:GLN:NE2	2.22	0.55
1:R:7:ALA:CB	1:R:347:ALA:HB1	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:54:VAL:O	1:R:55:GLY:C	2.45	0.55
1:R:143:TYR:CZ	1:T:45:VAL:CG2	2.88	0.55
1:T:7:ALA:CB	1:T:347:ALA:HB1	2.37	0.55
1:T:143:TYR:CZ	1:T:345:ILE:HG22	2.42	0.55
1:U:32:PRO:HG3	1:U:59:GLN:NE2	2.22	0.55
1:U:143:TYR:CZ	1:U:345:ILE:HG22	2.42	0.55
1:W:7:ALA:CB	1:W:347:ALA:HB1	2.37	0.55
1:A:7:ALA:CB	1:A:347:ALA:HB1	2.37	0.55
1:F:116:ARG:HD3	1:F:370:VAL:HG13	1.88	0.55
1:H:143:TYR:CZ	1:H:345:ILE:HG22	2.42	0.55
1:I:34:ILE:CG2	1:I:67:LEU:HD22	2.27	0.55
1:I:121:GLN:HA	1:I:362:TYR:OH	2.07	0.55
1:J:32:PRO:HG3	1:J:59:GLN:NE2	2.22	0.55
1:N:143:TYR:HD2	1:N:346:LEU:HD13	1.70	0.55
1:P:290:ARG:HH11	1:R:244:ASP:HB2	1.70	0.55
1:Q:236:LEU:HD12	1:Q:237:GLU:CG	2.37	0.55
1:R:121:GLN:HA	1:R:362:TYR:OH	2.07	0.55
1:U:7:ALA:CB	1:U:347:ALA:HB1	2.37	0.55
1:V:7:ALA:CB	1:V:347:ALA:HB1	2.37	0.55
1:V:121:GLN:HA	1:V:362:TYR:OH	2.07	0.55
1:W:116:ARG:HD3	1:W:370:VAL:HG13	1.88	0.55
1:W:121:GLN:HA	1:W:362:TYR:OH	2.07	0.55
1:W:143:TYR:CZ	1:W:345:ILE:HG22	2.42	0.55
1:W:236:LEU:HD12	1:W:237:GLU:CG	2.37	0.55
1:A:32:PRO:HG3	1:A:59:GLN:NE2	2.22	0.55
1:C:325:MET:HE3	1:E:244:ASP:O	2.07	0.55
1:F:32:PRO:HG3	1:F:59:GLN:NE2	2.22	0.55
1:F:143:TYR:CZ	1:F:345:ILE:HG22	2.42	0.55
1:H:143:TYR:CZ	1:J:45:VAL:CG2	2.88	0.55
1:L:143:TYR:CZ	1:L:345:ILE:HG22	2.42	0.55
1:M:32:PRO:HG3	1:M:59:GLN:NE2	2.22	0.55
1:M:110:LEU:HD12	1:M:177:ARG:HH11	1.72	0.55
1:M:121:GLN:HA	1:M:362:TYR:OH	2.07	0.55
1:M:143:TYR:CZ	1:O:45:VAL:CG2	2.88	0.55
1:N:37:ARG:CG	1:N:38:PRO:CD	2.83	0.55
1:N:54:VAL:O	1:N:55:GLY:C	2.45	0.55
1:O:7:ALA:CB	1:O:347:ALA:HB1	2.37	0.55
1:O:236:LEU:HD12	1:O:237:GLU:CG	2.37	0.55
1:P:7:ALA:CB	1:P:347:ALA:HB1	2.37	0.55
1:P:54:VAL:O	1:P:55:GLY:C	2.45	0.55
1:R:110:LEU:HD12	1:R:177:ARG:HH11	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:143:TYR:CZ	1:R:345:ILE:HG22	2.42	0.55
1:S:7:ALA:CB	1:S:347:ALA:HB1	2.37	0.55
1:S:147:ARG:NH2	1:S:147:ARG:HG3	2.22	0.55
1:S:236:LEU:HD12	1:S:237:GLU:CG	2.37	0.55
1:U:34:ILE:CG2	1:U:67:LEU:HD22	2.28	0.55
1:U:236:LEU:HD12	1:U:237:GLU:CG	2.37	0.55
1:C:7:ALA:CB	1:C:347:ALA:HB1	2.37	0.55
1:C:54:VAL:O	1:C:55:GLY:C	2.45	0.55
1:E:7:ALA:CB	1:E:347:ALA:HB1	2.37	0.55
1:F:121:GLN:HA	1:F:362:TYR:OH	2.07	0.55
1:G:7:ALA:CB	1:G:347:ALA:HB1	2.37	0.55
1:H:368:SER:O	1:H:371:HIS:N	2.37	0.55
1:K:116:ARG:HD3	1:K:370:VAL:HG13	1.88	0.55
1:K:143:TYR:CZ	1:K:345:ILE:HG22	2.42	0.55
1:M:7:ALA:CB	1:M:347:ALA:HB1	2.37	0.55
1:N:7:ALA:CB	1:N:347:ALA:HB1	2.37	0.55
1:N:147:ARG:NH2	1:N:147:ARG:HG3	2.22	0.55
1:R:32:PRO:HG3	1:R:59:GLN:NE2	2.22	0.55
1:S:54:VAL:O	1:S:55:GLY:C	2.45	0.55
1:T:32:PRO:HG3	1:T:59:GLN:NE2	2.22	0.55
1:T:361:GLU:HB3	1:T:369:ILE:CD1	2.14	0.55
1:U:116:ARG:HD3	1:U:370:VAL:HG13	1.88	0.55
1:V:143:TYR:HD2	1:V:346:LEU:HD13	1.70	0.55
1:C:236:LEU:HD12	1:C:237:GLU:CG	2.37	0.55
1:D:236:LEU:HD12	1:D:237:GLU:CG	2.37	0.55
1:E:110:LEU:HD12	1:E:177:ARG:HH11	1.72	0.55
1:E:362:TYR:HE1	1:E:367:PRO:CB	2.19	0.55
1:G:54:VAL:O	1:G:55:GLY:C	2.45	0.55
1:G:143:TYR:CZ	1:G:345:ILE:HG22	2.42	0.55
1:H:116:ARG:HD3	1:H:370:VAL:HG13	1.88	0.55
1:H:147:ARG:NH2	1:H:147:ARG:HG3	2.22	0.55
1:K:7:ALA:CB	1:K:347:ALA:HB1	2.37	0.55
1:K:143:TYR:HD1	1:K:143:TYR:C	2.09	0.55
1:L:32:PRO:HG3	1:L:59:GLN:NE2	2.22	0.55
1:M:143:TYR:CZ	1:M:345:ILE:HG22	2.42	0.55
1:M:236:LEU:HD12	1:M:237:GLU:CG	2.37	0.55
1:N:32:PRO:HG3	1:N:59:GLN:NE2	2.22	0.55
1:P:32:PRO:HG3	1:P:59:GLN:NE2	2.22	0.55
1:Q:7:ALA:CB	1:Q:347:ALA:HB1	2.37	0.55
1:Q:54:VAL:O	1:Q:55:GLY:C	2.45	0.55
1:S:116:ARG:HD3	1:S:370:VAL:HG13	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:37:ARG:CG	1:U:38:PRO:CD	2.83	0.55
1:W:368:SER:O	1:W:371:HIS:N	2.37	0.55
1:A:121:GLN:HA	1:A:362:TYR:OH	2.07	0.54
1:C:143:TYR:CZ	1:C:345:ILE:HG22	2.42	0.54
1:D:147:ARG:HG3	1:D:147:ARG:NH2	2.22	0.54
1:H:236:LEU:HD12	1:H:237:GLU:CG	2.37	0.54
1:I:38:PRO:HB2	1:I:41:GLN:HB2	1.89	0.54
1:J:54:VAL:O	1:J:55:GLY:C	2.45	0.54
1:J:236:LEU:HD12	1:J:237:GLU:CG	2.37	0.54
1:K:32:PRO:HG3	1:K:59:GLN:NE2	2.22	0.54
1:O:32:PRO:HG3	1:O:59:GLN:NE2	2.22	0.54
1:O:110:LEU:HD12	1:O:177:ARG:HH11	1.72	0.54
1:T:37:ARG:CG	1:T:38:PRO:CD	2.83	0.54
1:B:7:ALA:CB	1:B:347:ALA:HB1	2.37	0.54
1:B:236:LEU:HD12	1:B:237:GLU:CG	2.37	0.54
1:C:147:ARG:NH2	1:C:147:ARG:HG3	2.22	0.54
1:D:34:ILE:HG21	1:D:67:LEU:HB3	1.89	0.54
1:E:236:LEU:HD12	1:E:237:GLU:CG	2.37	0.54
1:F:236:LEU:HD12	1:F:237:GLU:CG	2.37	0.54
1:G:121:GLN:HA	1:G:362:TYR:OH	2.07	0.54
1:H:34:ILE:HG21	1:H:67:LEU:HB3	1.90	0.54
1:J:325:MET:HE3	1:L:244:ASP:O	2.06	0.54
1:K:8:LEU:HB2	1:K:103:THR:OG1	2.08	0.54
1:K:143:TYR:CZ	1:M:45:VAL:CG2	2.88	0.54
1:L:236:LEU:HD12	1:L:237:GLU:CG	2.37	0.54
1:M:116:ARG:HD3	1:M:370:VAL:HG13	1.88	0.54
1:P:236:LEU:HD12	1:P:237:GLU:CG	2.37	0.54
1:T:143:TYR:HD2	1:T:346:LEU:HD13	1.70	0.54
1:V:32:PRO:HG3	1:V:59:GLN:NE2	2.22	0.54
1:W:147:ARG:HG3	1:W:147:ARG:NH2	2.22	0.54
1:A:143:TYR:CZ	1:A:345:ILE:HG22	2.42	0.54
1:B:223:PHE:CZ	1:B:266:PHE:HZ	2.26	0.54
1:D:34:ILE:CG2	1:D:67:LEU:HD22	2.28	0.54
1:D:106:THR:HG22	1:D:140:LEU:CD1	2.38	0.54
1:E:54:VAL:O	1:E:55:GLY:C	2.45	0.54
1:F:37:ARG:CG	1:F:38:PRO:CD	2.83	0.54
1:G:8:LEU:HB2	1:G:103:THR:OG1	2.08	0.54
1:G:300:SER:HA	1:G:335:ARG:HG2	1.89	0.54
1:I:7:ALA:CB	1:I:347:ALA:HB1	2.37	0.54
1:I:34:ILE:HG21	1:I:67:LEU:HB3	1.90	0.54
1:J:147:ARG:NH2	1:J:147:ARG:HG3	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:38:PRO:HB2	1:K:41:GLN:HB2	1.89	0.54
1:L:7:ALA:CB	1:L:347:ALA:HB1	2.37	0.54
1:L:106:THR:HG22	1:L:140:LEU:CD1	2.38	0.54
1:N:106:THR:HG22	1:N:140:LEU:CD1	2.38	0.54
1:N:236:LEU:HD12	1:N:237:GLU:CG	2.37	0.54
1:U:34:ILE:HG21	1:U:67:LEU:HB3	1.90	0.54
1:U:54:VAL:O	1:U:55:GLY:C	2.45	0.54
1:V:236:LEU:HD12	1:V:237:GLU:CG	2.37	0.54
1:W:143:TYR:HD2	1:W:346:LEU:HD13	1.70	0.54
1:W:236:LEU:HD12	1:W:237:GLU:HG2	1.90	0.54
1:W:362:TYR:HE1	1:W:367:PRO:CB	2.19	0.54
1:A:236:LEU:HD12	1:A:237:GLU:CG	2.37	0.54
1:B:7:ALA:CB	1:B:356:TRP:CZ2	2.91	0.54
1:C:223:PHE:CZ	1:C:266:PHE:HZ	2.26	0.54
1:C:236:LEU:HD12	1:C:237:GLU:HG2	1.90	0.54
1:D:32:PRO:HG3	1:D:59:GLN:NE2	2.22	0.54
1:D:143:TYR:CZ	1:D:345:ILE:HG22	2.42	0.54
1:E:32:PRO:HG3	1:E:59:GLN:NE2	2.22	0.54
1:F:106:THR:HG22	1:F:140:LEU:CD1	2.38	0.54
1:G:38:PRO:HB2	1:G:41:GLN:HB2	1.89	0.54
1:H:106:THR:HG22	1:H:140:LEU:CD1	2.38	0.54
1:H:110:LEU:HD12	1:H:177:ARG:HH11	1.72	0.54
1:I:32:PRO:HG3	1:I:59:GLN:NE2	2.22	0.54
1:J:34:ILE:HG21	1:J:67:LEU:HB3	1.90	0.54
1:J:106:THR:HG22	1:J:140:LEU:CD1	2.38	0.54
1:K:7:ALA:CB	1:K:356:TRP:CZ2	2.91	0.54
1:K:110:LEU:HD12	1:K:177:ARG:HH11	1.72	0.54
1:M:223:PHE:CZ	1:M:266:PHE:HZ	2.26	0.54
1:N:223:PHE:CZ	1:N:266:PHE:HZ	2.26	0.54
1:N:236:LEU:HD12	1:N:237:GLU:HG2	1.90	0.54
1:O:7:ALA:CB	1:O:356:TRP:CZ2	2.91	0.54
1:O:8:LEU:HB2	1:O:103:THR:OG1	2.08	0.54
1:O:143:TYR:CZ	1:O:345:ILE:HG22	2.42	0.54
1:P:34:ILE:CG2	1:P:67:LEU:HD22	2.27	0.54
1:P:325:MET:HE3	1:R:244:ASP:O	2.06	0.54
1:Q:325:MET:HE3	1:S:244:ASP:O	2.06	0.54
1:T:54:VAL:O	1:T:55:GLY:C	2.45	0.54
1:V:7:ALA:CB	1:V:356:TRP:CZ2	2.91	0.54
1:V:8:LEU:HB2	1:V:103:THR:OG1	2.08	0.54
1:V:34:ILE:HG21	1:V:67:LEU:HB3	1.90	0.54
1:V:38:PRO:HB2	1:V:41:GLN:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:143:TYR:CZ	1:V:345:ILE:HG22	2.42	0.54
1:W:34:ILE:HG21	1:W:67:LEU:HB3	1.90	0.54
1:A:236:LEU:HD12	1:A:237:GLU:HG2	1.90	0.54
1:E:143:TYR:HD2	1:E:346:LEU:HD13	1.70	0.54
1:E:223:PHE:CZ	1:E:266:PHE:HZ	2.26	0.54
1:G:32:PRO:HG3	1:G:59:GLN:NE2	2.22	0.54
1:G:34:ILE:HG21	1:G:67:LEU:HB3	1.90	0.54
1:I:7:ALA:CB	1:I:356:TRP:CZ2	2.91	0.54
1:I:143:TYR:CZ	1:I:345:ILE:HG22	2.42	0.54
1:J:110:LEU:HD12	1:J:177:ARG:HH11	1.72	0.54
1:J:143:TYR:CZ	1:J:345:ILE:HG22	2.42	0.54
1:K:34:ILE:HG21	1:K:67:LEU:HB3	1.90	0.54
1:K:223:PHE:CZ	1:K:266:PHE:HZ	2.26	0.54
1:L:147:ARG:HG3	1:L:147:ARG:NH2	2.22	0.54
1:L:236:LEU:HD12	1:L:237:GLU:HG2	1.90	0.54
1:M:7:ALA:CB	1:M:356:TRP:CZ2	2.91	0.54
1:M:34:ILE:HG21	1:M:67:LEU:HB3	1.90	0.54
1:O:34:ILE:HG21	1:O:67:LEU:HB3	1.90	0.54
1:O:37:ARG:CG	1:O:38:PRO:CD	2.83	0.54
1:R:147:ARG:NH2	1:R:147:ARG:HG3	2.22	0.54
1:S:143:TYR:CZ	1:S:345:ILE:HG22	2.42	0.54
1:T:7:ALA:CB	1:T:356:TRP:CZ2	2.91	0.54
1:T:34:ILE:HG21	1:T:67:LEU:HB3	1.90	0.54
1:V:223:PHE:CZ	1:V:266:PHE:HZ	2.26	0.54
1:A:34:ILE:HG21	1:A:67:LEU:HB3	1.90	0.54
1:A:223:PHE:CZ	1:A:266:PHE:HZ	2.26	0.54
1:B:34:ILE:HG21	1:B:67:LEU:HB3	1.90	0.54
1:B:106:THR:HG22	1:B:140:LEU:CD1	2.38	0.54
1:C:32:PRO:HG3	1:C:59:GLN:NE2	2.22	0.54
1:C:34:ILE:HG21	1:C:67:LEU:HB3	1.90	0.54
1:C:37:ARG:CG	1:C:38:PRO:CD	2.83	0.54
1:D:7:ALA:CB	1:D:347:ALA:HB1	2.37	0.54
1:D:54:VAL:O	1:D:55:GLY:C	2.45	0.54
1:D:121:GLN:HA	1:D:362:TYR:OH	2.07	0.54
1:D:223:PHE:CZ	1:D:266:PHE:HZ	2.26	0.54
1:E:8:LEU:HB2	1:E:103:THR:OG1	2.08	0.54
1:I:54:VAL:O	1:I:55:GLY:C	2.45	0.54
1:L:287:ILE:CD1	1:N:208:ILE:CD1	2.80	0.54
1:O:54:VAL:O	1:O:55:GLY:C	2.45	0.54
1:O:147:ARG:HG3	1:O:147:ARG:NH2	2.22	0.54
1:O:325:MET:HE3	1:Q:244:ASP:O	2.06	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:106:THR:HG22	1:P:140:LEU:CD1	2.38	0.54
1:P:223:PHE:CZ	1:P:266:PHE:HZ	2.26	0.54
1:Q:7:ALA:CB	1:Q:356:TRP:CZ2	2.91	0.54
1:Q:34:ILE:HG21	1:Q:67:LEU:HB3	1.90	0.54
1:R:8:LEU:HB2	1:R:103:THR:OG1	2.08	0.54
1:R:143:TYR:HD2	1:R:346:LEU:HD13	1.70	0.54
1:R:236:LEU:HD12	1:R:237:GLU:CG	2.37	0.54
1:T:38:PRO:HB2	1:T:41:GLN:HB2	1.89	0.54
1:B:8:LEU:HB2	1:B:103:THR:OG1	2.08	0.54
1:D:7:ALA:CB	1:D:356:TRP:CZ2	2.91	0.54
1:D:368:SER:O	1:D:371:HIS:N	2.37	0.54
1:E:236:LEU:HD12	1:E:237:GLU:HG2	1.90	0.54
1:G:236:LEU:HD12	1:G:237:GLU:CG	2.37	0.54
1:H:32:PRO:HG3	1:H:59:GLN:NE2	2.22	0.54
1:I:8:LEU:HB2	1:I:103:THR:OG1	2.08	0.54
1:I:106:THR:HG22	1:I:140:LEU:CD1	2.38	0.54
1:J:7:ALA:CB	1:J:347:ALA:HB1	2.37	0.54
1:J:143:TYR:HD1	1:J:143:TYR:C	2.09	0.54
1:K:106:THR:HG22	1:K:140:LEU:CD1	2.38	0.54
1:K:236:LEU:HD12	1:K:237:GLU:CG	2.37	0.54
1:L:110:LEU:HD12	1:L:177:ARG:HH11	1.72	0.54
1:L:223:PHE:CZ	1:L:266:PHE:HZ	2.26	0.54
1:O:223:PHE:CZ	1:O:266:PHE:HZ	2.26	0.54
1:R:223:PHE:CZ	1:R:266:PHE:HZ	2.26	0.54
1:T:223:PHE:CZ	1:T:266:PHE:HZ	2.26	0.54
1:W:32:PRO:HG3	1:W:59:GLN:NE2	2.22	0.54
1:C:8:LEU:HB2	1:C:103:THR:OG1	2.08	0.54
1:C:140:LEU:HD22	1:C:343:GLY:HA2	1.90	0.54
1:D:143:TYR:HD1	1:D:143:TYR:C	2.09	0.54
1:F:7:ALA:CB	1:F:347:ALA:HB1	2.37	0.54
1:F:34:ILE:HG21	1:F:67:LEU:HB3	1.90	0.54
1:F:147:ARG:HG3	1:F:147:ARG:NH2	2.22	0.54
1:H:360:GLN:O	1:H:364:GLU:HG3	2.08	0.54
1:I:143:TYR:CZ	1:K:45:VAL:CG2	2.88	0.54
1:L:140:LEU:HD22	1:L:343:GLY:HA2	1.90	0.54
1:M:38:PRO:HB2	1:M:41:GLN:HB2	1.89	0.54
1:N:147:ARG:CG	1:N:147:ARG:NH2	2.71	0.54
1:P:110:LEU:HD12	1:P:177:ARG:HH11	1.72	0.54
1:Q:110:LEU:HD12	1:Q:177:ARG:HH11	1.72	0.54
1:S:7:ALA:CB	1:S:356:TRP:CZ2	2.91	0.54
1:S:34:ILE:HG21	1:S:67:LEU:HB3	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:325:MET:HE3	1:U:244:ASP:O	2.08	0.54
1:S:368:SER:O	1:S:371:HIS:N	2.37	0.54
1:U:223:PHE:CZ	1:U:266:PHE:HZ	2.26	0.54
1:U:236:LEU:HD12	1:U:237:GLU:HG2	1.90	0.54
1:U:325:MET:HE3	1:W:244:ASP:O	2.07	0.54
1:W:223:PHE:CZ	1:W:266:PHE:HZ	2.26	0.54
1:A:147:ARG:HG3	1:A:147:ARG:NH2	2.22	0.54
1:B:38:PRO:HB2	1:B:41:GLN:HB2	1.89	0.54
1:B:54:VAL:O	1:B:55:GLY:C	2.45	0.54
1:B:143:TYR:CZ	1:B:345:ILE:HG22	2.42	0.54
1:E:300:SER:HA	1:E:335:ARG:HG2	1.89	0.54
1:G:56:ASP:C	1:G:56:ASP:OD1	2.47	0.54
1:G:110:LEU:HD12	1:G:177:ARG:HH11	1.72	0.54
1:G:360:GLN:O	1:G:364:GLU:HG3	2.08	0.54
1:H:7:ALA:CB	1:H:347:ALA:HB1	2.37	0.54
1:I:236:LEU:HD12	1:I:237:GLU:CG	2.37	0.54
1:K:56:ASP:C	1:K:56:ASP:OD1	2.47	0.54
1:N:34:ILE:HG21	1:N:67:LEU:HB3	1.90	0.54
1:N:140:LEU:HD22	1:N:343:GLY:HA2	1.90	0.54
1:O:34:ILE:CG2	1:O:67:LEU:HD22	2.27	0.54
1:O:38:PRO:HB2	1:O:41:GLN:HB2	1.89	0.54
1:P:34:ILE:HG21	1:P:67:LEU:HB3	1.90	0.54
1:P:236:LEU:HD12	1:P:237:GLU:HG2	1.90	0.54
1:R:140:LEU:HD22	1:R:343:GLY:HA2	1.90	0.54
1:S:360:GLN:O	1:S:364:GLU:HG3	2.08	0.54
1:S:362:TYR:HE1	1:S:367:PRO:CB	2.19	0.54
1:T:106:THR:HG22	1:T:140:LEU:CD1	2.38	0.54
1:V:56:ASP:C	1:V:56:ASP:OD1	2.47	0.54
1:V:360:GLN:O	1:V:364:GLU:HG3	2.08	0.54
1:D:8:LEU:HB2	1:D:103:THR:OG1	2.08	0.54
1:D:116:ARG:HH12	1:D:375:PHE:HA	1.73	0.54
1:E:34:ILE:HG21	1:E:67:LEU:HB3	1.90	0.54
1:E:38:PRO:HB2	1:E:41:GLN:HB2	1.89	0.54
1:E:106:THR:HG22	1:E:140:LEU:CD1	2.38	0.54
1:F:56:ASP:C	1:F:56:ASP:OD1	2.47	0.54
1:F:110:LEU:HD12	1:F:177:ARG:HH11	1.72	0.54
1:F:223:PHE:CZ	1:F:266:PHE:HZ	2.26	0.54
1:F:360:GLN:O	1:F:364:GLU:HG3	2.08	0.54
1:H:135:ALA:HB1	1:H:140:LEU:HD21	1.90	0.54
1:I:34:ILE:CG2	1:I:68:LYS:H	2.21	0.54
1:J:223:PHE:O	1:J:227:MET:HG2	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:223:PHE:CZ	1:J:266:PHE:HZ	2.26	0.54
1:J:236:LEU:HD12	1:J:237:GLU:HG2	1.90	0.54
1:J:360:GLN:O	1:J:364:GLU:HG3	2.08	0.54
1:L:34:ILE:HG21	1:L:67:LEU:HB3	1.90	0.54
1:L:325:MET:HE3	1:N:244:ASP:O	2.07	0.54
1:M:223:PHE:O	1:M:227:MET:HG2	2.08	0.54
1:N:8:LEU:HB2	1:N:103:THR:OG1	2.08	0.54
1:N:325:MET:HE3	1:P:244:ASP:O	2.07	0.54
1:P:8:LEU:HB2	1:P:103:THR:OG1	2.08	0.54
1:R:7:ALA:CB	1:R:356:TRP:CZ2	2.91	0.54
1:R:32:PRO:CG	1:R:55:GLY:O	2.55	0.54
1:R:34:ILE:HG21	1:R:67:LEU:HB3	1.90	0.54
1:R:56:ASP:OD1	1:R:56:ASP:C	2.47	0.54
1:R:106:THR:HG22	1:R:140:LEU:CD1	2.38	0.54
1:S:223:PHE:CZ	1:S:266:PHE:HZ	2.26	0.54
1:S:236:LEU:HD12	1:S:237:GLU:HG2	1.90	0.54
1:T:8:LEU:HB2	1:T:103:THR:OG1	2.08	0.54
1:T:32:PRO:CG	1:T:55:GLY:O	2.55	0.54
1:T:236:LEU:HD12	1:T:237:GLU:CG	2.37	0.54
1:U:56:ASP:C	1:U:56:ASP:OD1	2.47	0.54
1:U:147:ARG:NH2	1:U:147:ARG:HG3	2.22	0.54
1:U:360:GLN:O	1:U:364:GLU:HG3	2.08	0.54
1:V:34:ILE:CG2	1:V:68:LYS:H	2.21	0.54
1:V:236:LEU:HD12	1:V:237:GLU:HG2	1.90	0.54
1:V:362:TYR:HE1	1:V:367:PRO:CB	2.19	0.54
1:W:106:THR:HG22	1:W:140:LEU:CD1	2.38	0.54
1:W:110:LEU:HD12	1:W:177:ARG:HH11	1.72	0.54
1:A:135:ALA:HB1	1:A:140:LEU:HD21	1.91	0.53
1:A:140:LEU:HD22	1:A:343:GLY:HA2	1.90	0.53
1:C:56:ASP:C	1:C:56:ASP:OD1	2.47	0.53
1:E:7:ALA:CB	1:E:356:TRP:CZ2	2.91	0.53
1:E:223:PHE:O	1:E:227:MET:HG2	2.09	0.53
1:F:116:ARG:HH12	1:F:375:PHE:HA	1.74	0.53
1:G:147:ARG:HG3	1:G:147:ARG:NH2	2.22	0.53
1:G:325:MET:HE3	1:I:244:ASP:O	2.07	0.53
1:I:32:PRO:CG	1:I:55:GLY:O	2.55	0.53
1:I:116:ARG:HH12	1:I:375:PHE:HA	1.74	0.53
1:I:360:GLN:O	1:I:364:GLU:HG3	2.08	0.53
1:J:38:PRO:HB2	1:J:41:GLN:HB2	1.89	0.53
1:K:34:ILE:CG2	1:K:68:LYS:H	2.21	0.53
1:L:135:ALA:HB1	1:L:140:LEU:HD21	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:362:TYR:HE1	1:L:367:PRO:CB	2.19	0.53
1:M:361:GLU:HB3	1:M:369:ILE:CD1	2.14	0.53
1:N:135:ALA:HB1	1:N:140:LEU:HD21	1.91	0.53
1:O:208:ILE:HG22	1:O:209:VAL:N	2.23	0.53
1:Q:8:LEU:HB2	1:Q:103:THR:OG1	2.08	0.53
1:Q:208:ILE:HG22	1:Q:209:VAL:N	2.23	0.53
1:S:32:PRO:HG3	1:S:59:GLN:NE2	2.22	0.53
1:S:135:ALA:HB1	1:S:140:LEU:HD21	1.90	0.53
1:S:208:ILE:HG22	1:S:209:VAL:N	2.23	0.53
1:T:223:PHE:O	1:T:227:MET:HG2	2.08	0.53
1:W:360:GLN:O	1:W:364:GLU:HG3	2.08	0.53
1:C:106:THR:HG22	1:C:140:LEU:CD1	2.38	0.53
1:D:56:ASP:C	1:D:56:ASP:OD1	2.47	0.53
1:D:173:HIS:CE1	1:E:267:ILE:C	2.82	0.53
1:E:140:LEU:HD22	1:E:343:GLY:HA2	1.90	0.53
1:G:32:PRO:CG	1:G:55:GLY:O	2.55	0.53
1:G:223:PHE:CZ	1:G:266:PHE:HZ	2.26	0.53
1:H:38:PRO:HB2	1:H:41:GLN:HB2	1.89	0.53
1:I:143:TYR:HD2	1:I:346:LEU:HD13	1.70	0.53
1:J:56:ASP:OD1	1:J:56:ASP:C	2.47	0.53
1:J:147:ARG:CG	1:J:147:ARG:NH2	2.71	0.53
1:L:7:ALA:CB	1:L:356:TRP:CZ2	2.91	0.53
1:L:223:PHE:O	1:L:227:MET:HG2	2.08	0.53
1:L:360:GLN:O	1:L:364:GLU:HG3	2.08	0.53
1:M:208:ILE:HG22	1:M:209:VAL:N	2.23	0.53
1:O:362:TYR:HE1	1:O:367:PRO:CB	2.19	0.53
1:P:140:LEU:HD22	1:P:343:GLY:HA2	1.90	0.53
1:P:143:TYR:HD2	1:P:346:LEU:HD13	1.70	0.53
1:P:173:HIS:CE1	1:Q:267:ILE:C	2.82	0.53
1:Q:38:PRO:HB2	1:Q:41:GLN:HB2	1.89	0.53
1:Q:56:ASP:C	1:Q:56:ASP:OD1	2.47	0.53
1:Q:223:PHE:O	1:Q:227:MET:HG2	2.08	0.53
1:Q:360:GLN:O	1:Q:364:GLU:HG3	2.08	0.53
1:R:38:PRO:HB2	1:R:41:GLN:HB2	1.89	0.53
1:U:7:ALA:CB	1:U:356:TRP:CZ2	2.91	0.53
1:U:135:ALA:HB1	1:U:140:LEU:HD21	1.91	0.53
1:U:208:ILE:HG22	1:U:209:VAL:N	2.23	0.53
1:W:140:LEU:HD22	1:W:343:GLY:HA2	1.90	0.53
1:W:361:GLU:HB3	1:W:369:ILE:CD1	2.14	0.53
1:B:34:ILE:CG2	1:B:68:LYS:H	2.21	0.53
1:B:143:TYR:CD1	1:B:143:TYR:C	2.75	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:7:ALA:CB	1:C:356:TRP:CZ2	2.91	0.53
1:C:223:PHE:O	1:C:227:MET:HG2	2.08	0.53
1:D:236:LEU:HD12	1:D:237:GLU:HG2	1.90	0.53
1:D:360:GLN:O	1:D:364:GLU:HG3	2.08	0.53
1:G:7:ALA:CB	1:G:356:TRP:CZ2	2.91	0.53
1:G:116:ARG:HH12	1:G:375:PHE:HA	1.74	0.53
1:G:236:LEU:HD12	1:G:237:GLU:HG2	1.90	0.53
1:G:336:LYS:HE2	2:G:401:ADP:C5'	2.38	0.53
1:I:173:HIS:CE1	1:J:267:ILE:C	2.82	0.53
1:I:223:PHE:CZ	1:I:266:PHE:HZ	2.26	0.53
1:I:223:PHE:O	1:I:227:MET:HG2	2.08	0.53
1:K:54:VAL:O	1:K:55:GLY:C	2.45	0.53
1:K:116:ARG:HH12	1:K:375:PHE:HA	1.74	0.53
1:N:56:ASP:C	1:N:56:ASP:OD1	2.47	0.53
1:O:56:ASP:C	1:O:56:ASP:OD1	2.47	0.53
1:O:142:LEU:HD21	1:O:165:ILE:CD1	2.38	0.53
1:P:360:GLN:O	1:P:364:GLU:HG3	2.08	0.53
1:Q:143:TYR:CZ	1:Q:345:ILE:HG22	2.42	0.53
1:R:173:HIS:CE1	1:S:267:ILE:C	2.82	0.53
1:S:8:LEU:HB2	1:S:103:THR:OG1	2.08	0.53
1:S:106:THR:HG22	1:S:140:LEU:CD1	2.38	0.53
1:S:173:HIS:CE1	1:T:267:ILE:C	2.82	0.53
1:S:223:PHE:O	1:S:227:MET:HG2	2.09	0.53
1:T:173:HIS:CE1	1:U:267:ILE:C	2.82	0.53
1:U:106:THR:HG22	1:U:140:LEU:CD1	2.38	0.53
1:U:336:LYS:HE2	2:U:401:ADP:C5'	2.38	0.53
1:V:223:PHE:O	1:V:227:MET:HG2	2.08	0.53
1:A:173:HIS:CE1	1:B:267:ILE:C	2.82	0.53
1:B:223:PHE:O	1:B:227:MET:HG2	2.08	0.53
1:B:236:LEU:HD12	1:B:237:GLU:HG2	1.90	0.53
1:E:173:HIS:CE1	1:F:267:ILE:C	2.82	0.53
1:E:360:GLN:O	1:E:364:GLU:HG3	2.08	0.53
1:F:7:ALA:CB	1:F:356:TRP:CZ2	2.91	0.53
1:F:135:ALA:HB1	1:F:140:LEU:HD21	1.91	0.53
1:H:142:LEU:HD21	1:H:165:ILE:CD1	2.38	0.53
1:H:223:PHE:CZ	1:H:266:PHE:HZ	2.26	0.53
1:I:110:LEU:HD12	1:I:177:ARG:HH11	1.72	0.53
1:J:135:ALA:HB1	1:J:140:LEU:HD21	1.91	0.53
1:L:38:PRO:HB2	1:L:41:GLN:HB2	1.89	0.53
1:M:34:ILE:CG2	1:M:68:LYS:H	2.21	0.53
1:N:7:ALA:CB	1:N:356:TRP:CZ2	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:173:HIS:CE1	1:P:267:ILE:C	2.82	0.53
1:S:56:ASP:C	1:S:56:ASP:OD1	2.47	0.53
1:T:34:ILE:CG2	1:T:68:LYS:H	2.21	0.53
1:T:208:ILE:HG22	1:T:209:VAL:N	2.23	0.53
1:V:147:ARG:NH2	1:V:147:ARG:HG3	2.22	0.53
1:W:38:PRO:HB2	1:W:41:GLN:HB2	1.89	0.53
1:A:7:ALA:CB	1:A:356:TRP:CZ2	2.91	0.53
1:B:56:ASP:OD1	1:B:56:ASP:C	2.47	0.53
1:B:116:ARG:HH12	1:B:375:PHE:HA	1.74	0.53
1:C:143:TYR:HD1	1:C:143:TYR:C	2.09	0.53
1:D:38:PRO:HB2	1:D:41:GLN:HB2	1.89	0.53
1:D:223:PHE:O	1:D:227:MET:HG2	2.09	0.53
1:F:173:HIS:CE1	1:G:267:ILE:C	2.82	0.53
1:G:34:ILE:CG2	1:G:68:LYS:H	2.21	0.53
1:G:140:LEU:HD22	1:G:343:GLY:HA2	1.90	0.53
1:H:140:LEU:HD22	1:H:343:GLY:HA2	1.90	0.53
1:H:173:HIS:CE1	1:I:267:ILE:C	2.82	0.53
1:H:223:PHE:O	1:H:227:MET:HG2	2.08	0.53
1:J:7:ALA:CB	1:J:356:TRP:CZ2	2.91	0.53
1:J:140:LEU:HD22	1:J:343:GLY:HA2	1.90	0.53
1:K:147:ARG:NH2	1:K:147:ARG:HG3	2.22	0.53
1:K:223:PHE:O	1:K:227:MET:HG2	2.08	0.53
1:L:8:LEU:HB2	1:L:103:THR:OG1	2.08	0.53
1:L:37:ARG:CG	1:L:38:PRO:CD	2.83	0.53
1:M:360:GLN:O	1:M:364:GLU:HG3	2.08	0.53
1:N:173:HIS:CE1	1:O:267:ILE:C	2.82	0.53
1:N:360:GLN:O	1:N:364:GLU:HG3	2.08	0.53
1:O:116:ARG:HH12	1:O:375:PHE:HA	1.74	0.53
1:O:360:GLN:O	1:O:364:GLU:HG3	2.08	0.53
1:P:38:PRO:HB2	1:P:41:GLN:HB2	1.89	0.53
1:P:147:ARG:NH2	1:P:147:ARG:HG3	2.22	0.53
1:Q:106:THR:HG22	1:Q:140:LEU:CD1	2.38	0.53
1:Q:116:ARG:HH12	1:Q:375:PHE:HA	1.74	0.53
1:Q:147:ARG:HG3	1:Q:147:ARG:NH2	2.22	0.53
1:R:37:ARG:CG	1:R:38:PRO:CD	2.83	0.53
1:R:223:PHE:O	1:R:227:MET:HG2	2.09	0.53
1:T:140:LEU:HD22	1:T:343:GLY:HA2	1.90	0.53
1:T:360:GLN:O	1:T:364:GLU:HG3	2.08	0.53
1:V:54:VAL:O	1:V:55:GLY:C	2.45	0.53
1:W:7:ALA:CB	1:W:356:TRP:CZ2	2.91	0.53
1:W:208:ILE:HG22	1:W:209:VAL:N	2.23	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:8:LEU:HB2	1:A:103:THR:OG1	2.08	0.53
1:A:362:TYR:HE1	1:A:367:PRO:CB	2.19	0.53
1:C:135:ALA:HB1	1:C:140:LEU:HD21	1.91	0.53
1:D:110:LEU:HD12	1:D:177:ARG:HH11	1.72	0.53
1:F:38:PRO:HB2	1:F:41:GLN:HB2	1.89	0.53
1:F:147:ARG:CG	1:F:147:ARG:NH2	2.71	0.53
1:G:223:PHE:O	1:G:227:MET:HG2	2.08	0.53
1:H:116:ARG:HH12	1:H:375:PHE:HA	1.74	0.53
1:H:236:LEU:HD12	1:H:237:GLU:HG2	1.90	0.53
1:O:106:THR:HG22	1:O:140:LEU:CD1	2.38	0.53
1:O:236:LEU:HD12	1:O:237:GLU:HG2	1.90	0.53
1:O:368:SER:O	1:O:371:HIS:N	2.37	0.53
1:Q:236:LEU:HD12	1:Q:237:GLU:HG2	1.90	0.53
1:S:336:LYS:HE2	2:S:401:ADP:C5'	2.38	0.53
1:U:147:ARG:CG	1:U:147:ARG:NH2	2.71	0.53
1:U:173:HIS:CE1	1:V:267:ILE:C	2.82	0.53
1:V:142:LEU:HD21	1:V:165:ILE:CD1	2.38	0.53
1:W:37:ARG:CG	1:W:38:PRO:CD	2.83	0.53
1:W:135:ALA:HB1	1:W:140:LEU:HD21	1.91	0.53
1:W:147:ARG:CG	1:W:147:ARG:NH2	2.71	0.53
1:A:32:PRO:CG	1:A:55:GLY:O	2.55	0.53
1:A:360:GLN:O	1:A:364:GLU:HG3	2.08	0.53
1:C:32:PRO:CG	1:C:55:GLY:O	2.55	0.53
1:C:38:PRO:HB2	1:C:41:GLN:HB2	1.90	0.53
1:D:34:ILE:CG2	1:D:68:LYS:H	2.21	0.53
1:E:34:ILE:CG2	1:E:67:LEU:HD22	2.27	0.53
1:E:135:ALA:HB1	1:E:140:LEU:HD21	1.91	0.53
1:F:236:LEU:HD12	1:F:237:GLU:HG2	1.90	0.53
1:H:56:ASP:C	1:H:56:ASP:OD1	2.47	0.53
1:H:143:TYR:CE2	1:J:45:VAL:HG21	2.44	0.53
1:I:37:ARG:CG	1:I:38:PRO:CD	2.83	0.53
1:I:208:ILE:HG22	1:I:209:VAL:N	2.24	0.53
1:I:336:LYS:HE2	2:I:401:ADP:C5'	2.38	0.53
1:J:299:MET:HE1	1:J:304:THR:HB	1.91	0.53
1:K:173:HIS:CE1	1:L:267:ILE:C	2.82	0.53
1:M:54:VAL:O	1:M:55:GLY:C	2.45	0.53
1:M:56:ASP:C	1:M:56:ASP:OD1	2.47	0.53
1:M:116:ARG:HH12	1:M:375:PHE:HA	1.74	0.53
1:M:143:TYR:CE2	1:O:45:VAL:HG21	2.44	0.53
1:M:236:LEU:HD12	1:M:237:GLU:HG2	1.90	0.53
1:N:110:LEU:HD12	1:N:177:ARG:HH11	1.72	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:223:PHE:O	1:N:227:MET:HG2	2.08	0.53
1:P:135:ALA:HB1	1:P:140:LEU:HD21	1.91	0.53
1:R:34:ILE:CG2	1:R:68:LYS:H	2.21	0.53
1:R:135:ALA:HB1	1:R:140:LEU:HD21	1.91	0.53
1:R:236:LEU:HD12	1:R:237:GLU:HG2	1.90	0.53
1:T:236:LEU:HD12	1:T:237:GLU:HG2	1.90	0.53
1:U:8:LEU:HB2	1:U:103:THR:OG1	2.08	0.53
1:W:34:ILE:CG2	1:W:68:LYS:H	2.21	0.53
1:W:223:PHE:O	1:W:227:MET:HG2	2.08	0.53
1:A:37:ARG:CG	1:A:38:PRO:CD	2.83	0.53
1:A:106:THR:HG22	1:A:140:LEU:CD1	2.38	0.53
1:B:208:ILE:HG22	1:B:209:VAL:N	2.23	0.53
1:C:173:HIS:CE1	1:D:267:ILE:C	2.82	0.53
1:D:208:ILE:HG22	1:D:209:VAL:N	2.23	0.53
1:E:56:ASP:C	1:E:56:ASP:OD1	2.47	0.53
1:E:116:ARG:HH12	1:E:375:PHE:HA	1.74	0.53
1:F:143:TYR:CE2	1:H:45:VAL:HG21	2.44	0.53
1:G:106:THR:HG22	1:G:140:LEU:CD1	2.38	0.53
1:G:173:HIS:CE1	1:H:267:ILE:C	2.82	0.53
1:H:8:LEU:HB2	1:H:103:THR:OG1	2.08	0.53
1:I:147:ARG:HG3	1:I:147:ARG:NH2	2.22	0.53
1:I:236:LEU:HD12	1:I:237:GLU:HG2	1.90	0.53
1:L:300:SER:HA	1:L:335:ARG:HG2	1.89	0.53
1:M:173:HIS:CE1	1:N:267:ILE:C	2.82	0.53
1:P:32:PRO:CG	1:P:55:GLY:O	2.55	0.53
1:P:37:ARG:CG	1:P:38:PRO:CD	2.83	0.53
1:Q:135:ALA:HB1	1:Q:140:LEU:HD21	1.90	0.53
1:Q:223:PHE:CZ	1:Q:266:PHE:HZ	2.26	0.53
1:S:110:LEU:HD12	1:S:177:ARG:HH11	1.72	0.53
1:T:135:ALA:HB1	1:T:140:LEU:HD21	1.91	0.53
1:V:140:LEU:HD22	1:V:343:GLY:HA2	1.90	0.53
1:V:361:GLU:HB3	1:V:369:ILE:CD1	2.14	0.53
1:W:8:LEU:HB2	1:W:103:THR:OG1	2.08	0.53
1:B:360:GLN:O	1:B:364:GLU:HG3	2.08	0.53
1:E:147:ARG:CG	1:E:147:ARG:NH2	2.71	0.53
1:F:208:ILE:HG22	1:F:209:VAL:N	2.24	0.53
1:G:135:ALA:HB1	1:G:140:LEU:HD21	1.90	0.53
1:H:208:ILE:HG22	1:H:209:VAL:N	2.23	0.53
1:I:140:LEU:HD22	1:I:343:GLY:HA2	1.90	0.53
1:J:173:HIS:CE1	1:K:267:ILE:C	2.82	0.53
1:K:34:ILE:CG2	1:K:67:LEU:HD22	2.27	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:236:LEU:HD12	1:K:237:GLU:HG2	1.90	0.53
1:K:362:TYR:HE1	1:K:367:PRO:CB	2.19	0.53
1:M:142:LEU:HD21	1:M:165:ILE:CD1	2.38	0.53
1:N:38:PRO:HB2	1:N:41:GLN:HB2	1.89	0.53
1:O:34:ILE:CG2	1:O:68:LYS:H	2.21	0.53
1:O:143:TYR:CE2	1:Q:45:VAL:HG21	2.44	0.53
1:Q:173:HIS:CE1	1:R:267:ILE:C	2.82	0.53
1:T:299:MET:HE1	1:T:304:THR:HB	1.91	0.53
1:U:38:PRO:HB2	1:U:41:GLN:HB2	1.89	0.53
1:U:143:TYR:CE2	1:W:45:VAL:HG21	2.44	0.53
1:V:32:PRO:CG	1:V:55:GLY:O	2.55	0.53
1:V:173:HIS:CE1	1:W:267:ILE:C	2.82	0.53
1:A:38:PRO:HB2	1:A:41:GLN:HB2	1.90	0.53
1:A:56:ASP:C	1:A:56:ASP:OD1	2.47	0.53
1:B:135:ALA:HB1	1:B:140:LEU:HD21	1.91	0.53
1:B:173:HIS:CE1	1:C:267:ILE:C	2.82	0.53
1:C:142:LEU:HD21	1:C:165:ILE:CD1	2.39	0.53
1:C:300:SER:HA	1:C:335:ARG:HG2	1.89	0.53
1:J:8:LEU:HB2	1:J:103:THR:OG1	2.08	0.53
1:J:208:ILE:HG22	1:J:209:VAL:N	2.23	0.53
1:J:368:SER:O	1:J:371:HIS:N	2.37	0.53
1:K:32:PRO:CG	1:K:55:GLY:O	2.55	0.53
1:K:208:ILE:HG22	1:K:209:VAL:N	2.24	0.53
1:L:173:HIS:CE1	1:M:267:ILE:C	2.82	0.53
1:M:8:LEU:HB2	1:M:103:THR:OG1	2.08	0.53
1:M:106:THR:HG22	1:M:140:LEU:CD1	2.38	0.53
1:N:34:ILE:CG2	1:N:68:LYS:H	2.21	0.53
1:O:140:LEU:HD22	1:O:343:GLY:HA2	1.90	0.53
1:T:34:ILE:CG2	1:T:67:LEU:HD22	2.28	0.53
1:V:106:THR:HG22	1:V:140:LEU:CD1	2.38	0.53
1:W:56:ASP:C	1:W:56:ASP:OD1	2.47	0.53
1:B:147:ARG:NH2	1:B:147:ARG:HG3	2.22	0.52
1:B:169:TYR:CZ	1:B:172:PRO:HD3	2.45	0.52
1:D:135:ALA:HB1	1:D:140:LEU:HD21	1.91	0.52
1:D:169:TYR:CZ	1:D:172:PRO:HD3	2.45	0.52
1:E:32:PRO:CG	1:E:55:GLY:O	2.55	0.52
1:F:142:LEU:HD21	1:F:165:ILE:CD1	2.39	0.52
1:H:7:ALA:CB	1:H:356:TRP:CZ2	2.91	0.52
1:H:300:SER:HA	1:H:335:ARG:HG2	1.89	0.52
1:H:362:TYR:HE1	1:H:367:PRO:CB	2.19	0.52
1:J:116:ARG:HH12	1:J:375:PHE:HA	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:300:SER:HA	1:J:335:ARG:HG2	1.89	0.52
1:O:135:ALA:HB1	1:O:140:LEU:HD21	1.91	0.52
1:P:34:ILE:CG2	1:P:68:LYS:H	2.21	0.52
1:P:56:ASP:C	1:P:56:ASP:OD1	2.47	0.52
1:P:208:ILE:HG22	1:P:209:VAL:N	2.23	0.52
1:S:38:PRO:HB2	1:S:41:GLN:HB2	1.89	0.52
1:S:116:ARG:HH12	1:S:375:PHE:HA	1.74	0.52
1:U:140:LEU:HD22	1:U:343:GLY:HA2	1.90	0.52
1:V:336:LYS:HE2	2:V:401:ADP:C5'	2.38	0.52
1:A:142:LEU:HD21	1:A:165:ILE:CD1	2.39	0.52
1:A:223:PHE:O	1:A:227:MET:HG2	2.08	0.52
1:B:140:LEU:HD22	1:B:343:GLY:HA2	1.90	0.52
1:B:336:LYS:HE2	2:B:401:ADP:C5'	2.38	0.52
1:C:360:GLN:O	1:C:364:GLU:HG3	2.08	0.52
1:D:300:SER:HA	1:D:335:ARG:HG2	1.89	0.52
1:D:336:LYS:HE2	2:D:401:ADP:C5'	2.38	0.52
1:D:361:GLU:HB3	1:D:369:ILE:CD1	2.14	0.52
1:E:34:ILE:CG2	1:E:68:LYS:H	2.21	0.52
1:F:300:SER:HA	1:F:335:ARG:HG2	1.89	0.52
1:G:143:TYR:HD2	1:G:346:LEU:HD13	1.70	0.52
1:I:56:ASP:C	1:I:56:ASP:OD1	2.47	0.52
1:J:143:TYR:CE2	1:L:45:VAL:HG21	2.44	0.52
1:J:169:TYR:CZ	1:J:172:PRO:HD3	2.45	0.52
1:K:143:TYR:CE2	1:M:45:VAL:HG21	2.44	0.52
1:L:56:ASP:C	1:L:56:ASP:OD1	2.47	0.52
1:M:169:TYR:CZ	1:M:172:PRO:HD3	2.45	0.52
1:P:7:ALA:CB	1:P:356:TRP:CZ2	2.91	0.52
1:Q:147:ARG:CG	1:Q:147:ARG:NH2	2.71	0.52
1:S:140:LEU:HD22	1:S:343:GLY:HA2	1.90	0.52
1:S:169:TYR:CZ	1:S:172:PRO:HD3	2.45	0.52
1:T:56:ASP:C	1:T:56:ASP:OD1	2.47	0.52
1:T:142:LEU:HD21	1:T:165:ILE:CD1	2.38	0.52
1:U:34:ILE:CG2	1:U:68:LYS:H	2.21	0.52
1:W:54:VAL:CG1	1:W:55:GLY:N	2.72	0.52
1:A:208:ILE:HG22	1:A:209:VAL:N	2.23	0.52
1:C:362:TYR:HE1	1:C:367:PRO:CB	2.19	0.52
1:D:37:ARG:CG	1:D:38:PRO:CD	2.83	0.52
1:D:143:TYR:CE2	1:F:45:VAL:HG21	2.44	0.52
1:D:299:MET:HE1	1:D:304:THR:HB	1.91	0.52
1:E:147:ARG:NH2	1:E:147:ARG:HG3	2.22	0.52
1:F:8:LEU:HB2	1:F:103:THR:OG1	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:34:ILE:CG2	1:F:68:LYS:H	2.21	0.52
1:F:336:LYS:HE2	2:F:401:ADP:C5'	2.38	0.52
1:G:208:ILE:HG22	1:G:209:VAL:N	2.23	0.52
1:K:169:TYR:CZ	1:K:172:PRO:HD3	2.45	0.52
1:L:147:ARG:CG	1:L:147:ARG:NH2	2.71	0.52
1:M:147:ARG:NH2	1:M:147:ARG:HG3	2.22	0.52
1:N:143:TYR:CE2	1:P:45:VAL:HG21	2.44	0.52
1:O:223:PHE:O	1:O:227:MET:HG2	2.08	0.52
1:Q:34:ILE:CG2	1:Q:68:LYS:H	2.21	0.52
1:Q:169:TYR:CZ	1:Q:172:PRO:HD3	2.45	0.52
1:R:208:ILE:HG22	1:R:209:VAL:N	2.23	0.52
1:R:362:TYR:HE1	1:R:367:PRO:CB	2.19	0.52
1:S:37:ARG:CG	1:S:38:PRO:CD	2.83	0.52
1:T:169:TYR:CZ	1:T:172:PRO:HD3	2.45	0.52
1:T:362:TYR:HD1	1:T:367:PRO:HA	1.75	0.52
1:V:362:TYR:HD1	1:V:367:PRO:HA	1.75	0.52
1:A:143:TYR:CE2	1:C:45:VAL:HG21	2.44	0.52
1:B:110:LEU:HD12	1:B:177:ARG:HH11	1.72	0.52
1:C:116:ARG:HH12	1:C:375:PHE:HA	1.74	0.52
1:D:140:LEU:HD22	1:D:343:GLY:HA2	1.90	0.52
1:E:362:TYR:HD1	1:E:367:PRO:HA	1.75	0.52
1:G:54:VAL:CG1	1:G:55:GLY:N	2.72	0.52
1:J:164:PRO:HG3	1:J:174:ALA:HB1	1.92	0.52
1:K:336:LYS:HE2	2:K:401:ADP:C5'	2.38	0.52
1:K:360:GLN:O	1:K:364:GLU:HG3	2.08	0.52
1:L:208:ILE:HG22	1:L:209:VAL:N	2.23	0.52
1:M:37:ARG:CG	1:M:38:PRO:CD	2.83	0.52
1:M:135:ALA:HB1	1:M:140:LEU:HD21	1.91	0.52
1:M:362:TYR:HD1	1:M:367:PRO:HA	1.75	0.52
1:P:147:ARG:CG	1:P:147:ARG:NH2	2.71	0.52
1:Q:37:ARG:CG	1:Q:38:PRO:CD	2.83	0.52
1:Q:336:LYS:HE2	2:Q:401:ADP:C5'	2.38	0.52
1:R:360:GLN:O	1:R:364:GLU:HG3	2.08	0.52
1:T:143:TYR:CE2	1:V:45:VAL:HG21	2.44	0.52
1:T:147:ARG:HG3	1:T:147:ARG:NH2	2.22	0.52
1:U:223:PHE:O	1:U:227:MET:HG2	2.08	0.52
1:B:300:SER:HA	1:B:335:ARG:HG2	1.89	0.52
1:C:208:ILE:HG22	1:C:209:VAL:N	2.23	0.52
1:E:169:TYR:CZ	1:E:172:PRO:HD3	2.45	0.52
1:G:143:TYR:CE2	1:I:45:VAL:HG21	2.44	0.52
1:I:135:ALA:HB1	1:I:140:LEU:HD21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:34:ILE:CG2	1:L:68:LYS:H	2.21	0.52
1:L:169:TYR:CZ	1:L:172:PRO:HD3	2.44	0.52
1:P:223:PHE:O	1:P:227:MET:HG2	2.08	0.52
1:P:362:TYR:HD1	1:P:367:PRO:HA	1.75	0.52
1:T:143:TYR:HD1	1:T:143:TYR:C	2.09	0.52
1:U:116:ARG:HH12	1:U:375:PHE:HA	1.74	0.52
1:V:135:ALA:HB1	1:V:140:LEU:HD21	1.91	0.52
1:W:116:ARG:HH12	1:W:375:PHE:HA	1.74	0.52
1:A:34:ILE:CG2	1:A:68:LYS:H	2.21	0.52
1:A:147:ARG:CG	1:A:147:ARG:NH2	2.71	0.52
1:C:169:TYR:CZ	1:C:172:PRO:HD3	2.45	0.52
1:D:362:TYR:HD1	1:D:367:PRO:HA	1.74	0.52
1:E:143:TYR:CE2	1:G:45:VAL:HG21	2.44	0.52
1:F:169:TYR:CZ	1:F:172:PRO:HD3	2.45	0.52
1:F:223:PHE:O	1:F:227:MET:HG2	2.09	0.52
1:F:362:TYR:HD1	1:F:367:PRO:HA	1.75	0.52
1:H:34:ILE:CG2	1:H:68:LYS:H	2.21	0.52
1:H:37:ARG:CG	1:H:38:PRO:CD	2.83	0.52
1:H:169:TYR:CZ	1:H:172:PRO:HD3	2.45	0.52
1:K:39:ARG:NE	1:K:66:THR:CA	2.69	0.52
1:K:362:TYR:HD1	1:K:367:PRO:HA	1.75	0.52
1:L:116:ARG:HH12	1:L:375:PHE:HA	1.74	0.52
1:L:164:PRO:HG3	1:L:174:ALA:HB1	1.92	0.52
1:M:140:LEU:HD22	1:M:343:GLY:HA2	1.90	0.52
1:N:208:ILE:HG22	1:N:209:VAL:N	2.23	0.52
1:P:143:TYR:CE2	1:R:45:VAL:HG21	2.44	0.52
1:Q:143:TYR:CE2	1:S:45:VAL:HG21	2.44	0.52
1:R:169:TYR:CZ	1:R:172:PRO:HD3	2.45	0.52
1:S:143:TYR:CE2	1:U:45:VAL:HG21	2.44	0.52
1:T:336:LYS:HE2	2:T:401:ADP:C5'	2.38	0.52
1:V:164:PRO:HG2	1:V:174:ALA:HB3	1.92	0.52
1:V:208:ILE:HG22	1:V:209:VAL:N	2.24	0.52
1:W:169:TYR:CZ	1:W:172:PRO:HD3	2.45	0.52
1:W:362:TYR:HD1	1:W:367:PRO:HA	1.75	0.52
1:A:164:PRO:HG3	1:A:174:ALA:HB1	1.92	0.52
1:B:167:GLU:OE1	1:D:61:LYS:CE	2.58	0.52
1:C:164:PRO:HG3	1:C:174:ALA:HB1	1.92	0.52
1:D:362:TYR:HE1	1:D:367:PRO:CB	2.19	0.52
1:F:140:LEU:HD22	1:F:343:GLY:HA2	1.90	0.52
1:H:164:PRO:HG3	1:H:174:ALA:HB1	1.92	0.52
1:H:336:LYS:HE2	2:H:401:ADP:C5'	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:164:PRO:HG2	1:I:174:ALA:HB3	1.92	0.52
1:K:135:ALA:HB1	1:K:140:LEU:HD21	1.91	0.52
1:K:140:LEU:HD22	1:K:343:GLY:HA2	1.90	0.52
1:L:32:PRO:CG	1:L:55:GLY:O	2.55	0.52
1:M:143:TYR:CD1	1:M:143:TYR:C	2.75	0.52
1:O:362:TYR:HD1	1:O:367:PRO:HA	1.75	0.52
1:R:362:TYR:HD1	1:R:367:PRO:HA	1.75	0.52
1:U:110:LEU:HD12	1:U:177:ARG:HH11	1.72	0.52
1:V:116:ARG:HH12	1:V:375:PHE:HA	1.74	0.52
1:V:169:TYR:CZ	1:V:172:PRO:HD3	2.45	0.52
1:V:300:SER:HA	1:V:335:ARG:HG2	1.89	0.52
1:A:362:TYR:HD1	1:A:367:PRO:HA	1.75	0.52
1:C:362:TYR:HD1	1:C:367:PRO:HA	1.75	0.52
1:G:169:TYR:CZ	1:G:172:PRO:HD3	2.45	0.52
1:I:169:TYR:CZ	1:I:172:PRO:HD3	2.45	0.52
1:M:164:PRO:HG2	1:M:174:ALA:HB3	1.92	0.52
1:O:164:PRO:HG2	1:O:174:ALA:HB3	1.92	0.52
1:P:362:TYR:HE1	1:P:367:PRO:CB	2.19	0.52
1:S:34:ILE:CG2	1:S:68:LYS:H	2.21	0.52
1:U:169:TYR:CZ	1:U:172:PRO:HD3	2.45	0.52
1:A:116:ARG:HH12	1:A:375:PHE:HA	1.74	0.52
1:B:164:PRO:HG2	1:B:174:ALA:HB3	1.92	0.52
1:D:36:GLY:HA3	1:D:66:THR:O	2.10	0.52
1:D:167:GLU:OE1	1:F:61:LYS:CE	2.58	0.52
1:E:164:PRO:HG3	1:E:174:ALA:HB1	1.92	0.52
1:F:164:PRO:HG3	1:F:174:ALA:HB1	1.92	0.52
1:H:362:TYR:HD1	1:H:367:PRO:HA	1.75	0.52
1:I:362:TYR:HD1	1:I:367:PRO:HA	1.75	0.52
1:K:142:LEU:HD21	1:K:165:ILE:CD1	2.39	0.52
1:K:164:PRO:HG2	1:K:174:ALA:HB3	1.92	0.52
1:K:167:GLU:OE1	1:M:61:LYS:CE	2.58	0.52
1:N:32:PRO:CG	1:N:55:GLY:O	2.55	0.52
1:P:116:ARG:HH12	1:P:375:PHE:HA	1.74	0.52
1:R:116:ARG:HH12	1:R:375:PHE:HA	1.74	0.52
1:T:167:GLU:OE1	1:V:61:LYS:CE	2.58	0.52
1:W:142:LEU:HD21	1:W:165:ILE:CD1	2.38	0.52
1:B:58:ALA:CA	1:B:65:LEU:CD2	2.89	0.52
1:G:37:ARG:CG	1:G:38:PRO:CD	2.83	0.52
1:G:164:PRO:HG2	1:G:174:ALA:HB3	1.92	0.52
1:I:143:TYR:CE2	1:K:45:VAL:HG21	2.44	0.52
1:J:34:ILE:CG2	1:J:68:LYS:H	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:143:TYR:CE2	1:N:45:VAL:HG21	2.44	0.52
1:M:58:ALA:CA	1:M:65:LEU:CD2	2.88	0.52
1:N:116:ARG:HH12	1:N:375:PHE:HA	1.74	0.52
1:R:36:GLY:HA3	1:R:66:THR:O	2.10	0.52
1:S:36:GLY:HA3	1:S:66:THR:O	2.10	0.52
1:T:164:PRO:HG2	1:T:174:ALA:HB3	1.92	0.52
1:W:2:GLU:HA	1:W:2:GLU:OE2	2.10	0.52
1:A:300:SER:HA	1:A:335:ARG:HG2	1.89	0.51
1:B:143:TYR:CE2	1:D:45:VAL:HG21	2.44	0.51
1:C:36:GLY:HA3	1:C:66:THR:O	2.10	0.51
1:D:142:LEU:HD21	1:D:165:ILE:CD1	2.39	0.51
1:E:143:TYR:HD1	1:E:143:TYR:C	2.09	0.51
1:F:36:GLY:HA3	1:F:66:THR:O	2.10	0.51
1:G:36:GLY:HA3	1:G:66:THR:O	2.10	0.51
1:I:58:ALA:CA	1:I:65:LEU:CD2	2.88	0.51
1:K:58:ALA:CA	1:K:65:LEU:CD2	2.89	0.51
1:N:368:SER:O	1:N:371:HIS:N	2.37	0.51
1:O:36:GLY:HA3	1:O:66:THR:O	2.10	0.51
1:O:167:GLU:OE1	1:Q:61:LYS:CE	2.58	0.51
1:R:142:LEU:HD21	1:R:165:ILE:CD1	2.38	0.51
1:W:230:ALA:HA	1:W:233:SER:HB2	1.92	0.51
1:A:169:TYR:CZ	1:A:172:PRO:HD3	2.45	0.51
1:C:22:ALA:HB1	1:C:348:SER:CB	2.41	0.51
1:D:58:ALA:CA	1:D:65:LEU:CD2	2.89	0.51
1:F:167:GLU:OE1	1:H:61:LYS:CE	2.58	0.51
1:H:230:ALA:HA	1:H:233:SER:HB2	1.92	0.51
1:I:362:TYR:HE1	1:I:367:PRO:CB	2.19	0.51
1:J:230:ALA:HA	1:J:233:SER:HB2	1.92	0.51
1:N:164:PRO:HG3	1:N:174:ALA:HB1	1.92	0.51
1:O:58:ALA:CA	1:O:65:LEU:CD2	2.89	0.51
1:O:169:TYR:CZ	1:O:172:PRO:HD3	2.45	0.51
1:O:336:LYS:HE2	2:O:401:ADP:C5'	2.38	0.51
1:P:36:GLY:HA3	1:P:66:THR:O	2.10	0.51
1:Q:58:ALA:CA	1:Q:65:LEU:CD2	2.89	0.51
1:Q:164:PRO:HG2	1:Q:174:ALA:HB3	1.92	0.51
1:R:22:ALA:HB1	1:R:348:SER:CB	2.41	0.51
1:R:167:GLU:OE1	1:T:61:LYS:CE	2.58	0.51
1:S:58:ALA:CA	1:S:65:LEU:CD2	2.88	0.51
1:V:39:ARG:HG2	1:V:66:THR:HB	1.92	0.51
1:A:230:ALA:HA	1:A:233:SER:HB2	1.92	0.51
1:B:22:ALA:HB1	1:B:348:SER:CB	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:362:TYR:HD1	1:B:367:PRO:HA	1.75	0.51
1:D:164:PRO:HG2	1:D:174:ALA:HB3	1.92	0.51
1:G:167:GLU:OE1	1:I:61:LYS:CE	2.58	0.51
1:H:2:GLU:OE2	1:H:2:GLU:HA	2.11	0.51
1:J:22:ALA:HB1	1:J:348:SER:CB	2.41	0.51
1:N:167:GLU:OE1	1:P:61:LYS:CE	2.58	0.51
1:N:230:ALA:HA	1:N:233:SER:HB2	1.92	0.51
1:N:362:TYR:HD1	1:N:367:PRO:HA	1.75	0.51
1:O:169:TYR:OH	1:Q:40:HIS:HB3	2.10	0.51
1:Q:22:ALA:HB1	1:Q:348:SER:CB	2.41	0.51
1:Q:140:LEU:HD22	1:Q:343:GLY:HA2	1.90	0.51
1:Q:332:PRO:HG2	1:Q:335:ARG:NE	2.26	0.51
1:R:34:ILE:CG2	1:R:35:VAL:N	2.74	0.51
1:T:34:ILE:CG2	1:T:35:VAL:N	2.74	0.51
1:T:332:PRO:HG2	1:T:335:ARG:NE	2.26	0.51
1:U:230:ALA:HA	1:U:233:SER:HB2	1.92	0.51
1:V:58:ALA:CA	1:V:65:LEU:CD2	2.88	0.51
1:W:164:PRO:HG3	1:W:174:ALA:HB1	1.92	0.51
1:B:36:GLY:HA3	1:B:66:THR:O	2.10	0.51
1:C:34:ILE:CG2	1:C:35:VAL:N	2.74	0.51
1:E:22:ALA:HB1	1:E:348:SER:CB	2.41	0.51
1:F:58:ALA:CA	1:F:65:LEU:CD2	2.89	0.51
1:G:2:GLU:OE2	1:G:2:GLU:HA	2.10	0.51
1:G:164:PRO:HG3	1:G:174:ALA:HB1	1.92	0.51
1:G:362:TYR:HE1	1:G:367:PRO:CB	2.19	0.51
1:H:22:ALA:HB1	1:H:348:SER:CB	2.41	0.51
1:H:36:GLY:HA3	1:H:66:THR:O	2.10	0.51
1:H:167:GLU:OE1	1:J:61:LYS:CE	2.58	0.51
1:H:332:PRO:HG2	1:H:335:ARG:NE	2.26	0.51
1:I:39:ARG:HG2	1:I:66:THR:HB	1.93	0.51
1:I:167:GLU:OE1	1:K:61:LYS:CE	2.58	0.51
1:K:34:ILE:CG2	1:K:35:VAL:N	2.74	0.51
1:L:230:ALA:HA	1:L:233:SER:HB2	1.92	0.51
1:L:362:TYR:HD1	1:L:367:PRO:HA	1.75	0.51
1:M:336:LYS:HE2	2:M:401:ADP:C5'	2.38	0.51
1:O:32:PRO:CG	1:O:55:GLY:O	2.55	0.51
1:O:332:PRO:HG2	1:O:335:ARG:NE	2.26	0.51
1:P:169:TYR:CZ	1:P:172:PRO:HD3	2.45	0.51
1:R:332:PRO:HG2	1:R:335:ARG:NE	2.26	0.51
1:U:58:ALA:CA	1:U:65:LEU:CD2	2.89	0.51
1:U:362:TYR:HD1	1:U:367:PRO:HA	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:2:GLU:HA	1:C:2:GLU:OE2	2.10	0.51
1:C:34:ILE:CG2	1:C:68:LYS:H	2.21	0.51
1:D:164:PRO:HG3	1:D:174:ALA:HB1	1.92	0.51
1:E:167:GLU:OE1	1:G:61:LYS:CE	2.58	0.51
1:E:208:ILE:HG22	1:E:209:VAL:N	2.24	0.51
1:F:332:PRO:HG2	1:F:335:ARG:NE	2.26	0.51
1:G:58:ALA:CA	1:G:65:LEU:CD2	2.88	0.51
1:J:362:TYR:HD1	1:J:367:PRO:HA	1.75	0.51
1:L:167:GLU:OE1	1:N:61:LYS:CE	2.58	0.51
1:M:169:TYR:OH	1:O:40:HIS:HB3	2.10	0.51
1:P:230:ALA:HA	1:P:233:SER:HB2	1.92	0.51
1:Q:169:TYR:OH	1:S:40:HIS:HB3	2.10	0.51
1:Q:362:TYR:HD1	1:Q:367:PRO:HA	1.75	0.51
1:S:164:PRO:HG2	1:S:174:ALA:HB3	1.92	0.51
1:S:332:PRO:HG2	1:S:335:ARG:NE	2.26	0.51
1:T:22:ALA:HB1	1:T:348:SER:CB	2.41	0.51
1:T:116:ARG:HH12	1:T:375:PHE:HA	1.74	0.51
1:T:362:TYR:HE1	1:T:367:PRO:CB	2.19	0.51
1:U:36:GLY:HA3	1:U:66:THR:O	2.10	0.51
1:V:36:GLY:HA3	1:V:66:THR:O	2.10	0.51
1:V:37:ARG:CG	1:V:38:PRO:CD	2.83	0.51
1:A:36:GLY:HA3	1:A:66:THR:O	2.10	0.51
1:A:332:PRO:HG2	1:A:335:ARG:NE	2.26	0.51
1:C:143:TYR:CE2	1:E:45:VAL:HG21	2.44	0.51
1:C:167:GLU:OE1	1:E:61:LYS:CE	2.58	0.51
1:C:230:ALA:HA	1:C:233:SER:HB2	1.92	0.51
1:E:34:ILE:CG2	1:E:35:VAL:N	2.74	0.51
1:I:34:ILE:CG2	1:I:35:VAL:N	2.74	0.51
1:I:36:GLY:HA3	1:I:66:THR:O	2.10	0.51
1:J:32:PRO:CG	1:J:55:GLY:O	2.55	0.51
1:J:332:PRO:HG2	1:J:335:ARG:NE	2.26	0.51
1:K:2:GLU:OE2	1:K:2:GLU:HA	2.10	0.51
1:K:22:ALA:HB1	1:K:348:SER:CB	2.41	0.51
1:L:22:ALA:HB1	1:L:348:SER:CB	2.41	0.51
1:L:169:TYR:OH	1:N:40:HIS:HB3	2.10	0.51
1:M:34:ILE:HG23	1:M:68:LYS:N	2.26	0.51
1:M:36:GLY:HA3	1:M:66:THR:O	2.10	0.51
1:N:54:VAL:CG1	1:N:55:GLY:N	2.72	0.51
1:N:169:TYR:CZ	1:N:172:PRO:HD3	2.45	0.51
1:N:169:TYR:OH	1:P:40:HIS:HB3	2.10	0.51
1:O:34:ILE:HG23	1:O:68:LYS:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:167:GLU:OE1	1:R:61:LYS:CE	2.58	0.51
1:Q:167:GLU:OE1	1:S:61:LYS:CE	2.58	0.51
1:R:143:TYR:CE2	1:T:45:VAL:HG21	2.44	0.51
1:S:2:GLU:OE2	1:S:2:GLU:HA	2.10	0.51
1:T:36:GLY:HA3	1:T:66:THR:O	2.10	0.51
1:T:58:ALA:CA	1:T:65:LEU:CD2	2.88	0.51
1:V:2:GLU:HA	1:V:2:GLU:OE2	2.11	0.51
1:V:332:PRO:HG2	1:V:335:ARG:NE	2.26	0.51
1:W:36:GLY:HA3	1:W:66:THR:O	2.10	0.51
1:E:164:PRO:HG2	1:E:174:ALA:HB3	1.92	0.51
1:E:169:TYR:OH	1:G:40:HIS:HB3	2.10	0.51
1:F:230:ALA:HA	1:F:233:SER:HB2	1.92	0.51
1:J:167:GLU:OE1	1:L:61:LYS:CE	2.58	0.51
1:J:336:LYS:HE2	2:J:401:ADP:C5'	2.38	0.51
1:K:34:ILE:HG23	1:K:68:LYS:N	2.26	0.51
1:L:34:ILE:HG23	1:L:68:LYS:N	2.26	0.51
1:M:39:ARG:HG2	1:M:66:THR:HB	1.93	0.51
1:M:164:PRO:HG3	1:M:174:ALA:HB1	1.92	0.51
1:M:332:PRO:HG2	1:M:335:ARG:NE	2.26	0.51
1:N:36:GLY:HA3	1:N:66:THR:O	2.10	0.51
1:P:34:ILE:HG12	1:P:69:TYR:CE1	2.46	0.51
1:S:169:TYR:OH	1:U:40:HIS:HB3	2.10	0.51
1:T:300:SER:HA	1:T:335:ARG:HG2	1.89	0.51
1:W:34:ILE:HG23	1:W:68:LYS:N	2.26	0.51
1:C:332:PRO:HG2	1:C:335:ARG:NE	2.26	0.51
1:D:34:ILE:HG12	1:D:69:TYR:CE1	2.46	0.51
1:D:332:PRO:HG2	1:D:335:ARG:NE	2.26	0.51
1:G:34:ILE:HG12	1:G:69:TYR:CE1	2.46	0.51
1:H:58:ALA:CA	1:H:65:LEU:CD2	2.89	0.51
1:J:361:GLU:HB3	1:J:369:ILE:CD1	2.14	0.51
1:M:32:PRO:CG	1:M:55:GLY:O	2.55	0.51
1:N:2:GLU:HA	1:N:2:GLU:OE2	2.10	0.51
1:O:347:ALA:HA	1:O:356:TRP:CZ2	2.46	0.51
1:R:2:GLU:HA	1:R:2:GLU:OE2	2.11	0.51
1:R:34:ILE:HG23	1:R:68:LYS:N	2.26	0.51
1:S:230:ALA:HA	1:S:233:SER:HB2	1.92	0.51
1:T:34:ILE:HG23	1:T:68:LYS:N	2.26	0.51
1:U:34:ILE:HG12	1:U:69:TYR:CE1	2.46	0.51
1:W:32:PRO:CG	1:W:55:GLY:O	2.55	0.51
1:W:58:ALA:CA	1:W:65:LEU:CD2	2.89	0.51
1:A:34:ILE:CG2	1:A:35:VAL:N	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:169:TYR:OH	1:D:40:HIS:HB3	2.10	0.51
1:C:34:ILE:HG23	1:C:68:LYS:N	2.26	0.51
1:C:164:PRO:HG2	1:C:174:ALA:HB3	1.92	0.51
1:D:2:GLU:HA	1:D:2:GLU:OE2	2.11	0.51
1:D:169:TYR:OH	1:F:40:HIS:HB3	2.10	0.51
1:F:164:PRO:HG2	1:F:174:ALA:HB3	1.92	0.51
1:H:34:ILE:HG23	1:H:68:LYS:N	2.26	0.51
1:I:34:ILE:HG23	1:I:68:LYS:N	2.26	0.51
1:K:164:PRO:HG3	1:K:174:ALA:HB1	1.92	0.51
1:K:169:TYR:OH	1:M:40:HIS:HB3	2.10	0.51
1:K:332:PRO:HG2	1:K:335:ARG:NE	2.26	0.51
1:L:34:ILE:CG2	1:L:35:VAL:N	2.74	0.51
1:P:164:PRO:HG3	1:P:174:ALA:HB1	1.92	0.51
1:P:332:PRO:HG2	1:P:335:ARG:NE	2.26	0.51
1:P:347:ALA:HA	1:P:356:TRP:CZ2	2.46	0.51
1:Q:34:ILE:HG23	1:Q:68:LYS:N	2.26	0.51
1:Q:347:ALA:HA	1:Q:356:TRP:CZ2	2.46	0.51
1:R:39:ARG:HG2	1:R:66:THR:HB	1.93	0.51
1:R:347:ALA:HA	1:R:356:TRP:CZ2	2.46	0.51
1:S:22:ALA:HB1	1:S:348:SER:CB	2.41	0.51
1:S:167:GLU:OE1	1:U:61:LYS:CE	2.58	0.51
1:S:347:ALA:HA	1:S:356:TRP:CZ2	2.46	0.51
1:T:347:ALA:HA	1:T:356:TRP:CZ2	2.46	0.51
1:V:34:ILE:CG2	1:V:35:VAL:N	2.74	0.51
1:V:347:ALA:HA	1:V:356:TRP:CZ2	2.46	0.51
1:E:39:ARG:HG2	1:E:66:THR:HB	1.93	0.51
1:E:54:VAL:CG1	1:E:55:GLY:N	2.72	0.51
1:G:169:TYR:OH	1:I:40:HIS:HB3	2.10	0.51
1:H:34:ILE:HG12	1:H:69:TYR:CE1	2.46	0.51
1:J:34:ILE:HG12	1:J:69:TYR:CE1	2.46	0.51
1:J:58:ALA:CA	1:J:65:LEU:CD2	2.89	0.51
1:K:36:GLY:HA3	1:K:66:THR:O	2.10	0.51
1:M:34:ILE:CG2	1:M:35:VAL:N	2.74	0.51
1:M:167:GLU:OE1	1:O:61:LYS:CE	2.58	0.51
1:N:34:ILE:HG23	1:N:68:LYS:N	2.26	0.51
1:O:2:GLU:OE2	1:O:2:GLU:HA	2.11	0.51
1:O:34:ILE:HG12	1:O:69:TYR:CE1	2.46	0.51
1:P:34:ILE:HG23	1:P:68:LYS:N	2.26	0.51
1:P:142:LEU:HD21	1:P:165:ILE:CD1	2.38	0.51
1:R:164:PRO:HG2	1:R:174:ALA:HB3	1.92	0.51
1:U:142:LEU:HD21	1:U:165:ILE:CD1	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:347:ALA:HA	1:W:356:TRP:CZ2	2.46	0.51
1:A:167:GLU:OE1	1:C:61:LYS:CE	2.58	0.50
1:B:34:ILE:CG2	1:B:35:VAL:N	2.74	0.50
1:B:37:ARG:CG	1:B:38:PRO:CD	2.83	0.50
1:B:39:ARG:HG2	1:B:66:THR:HB	1.93	0.50
1:D:22:ALA:HB1	1:D:348:SER:CB	2.41	0.50
1:E:34:ILE:HG12	1:E:69:TYR:CE1	2.46	0.50
1:E:230:ALA:HA	1:E:233:SER:HB2	1.92	0.50
1:F:34:ILE:HG23	1:F:68:LYS:N	2.26	0.50
1:F:169:TYR:OH	1:H:40:HIS:HB3	2.10	0.50
1:I:332:PRO:HG2	1:I:335:ARG:NE	2.26	0.50
1:J:2:GLU:OE2	1:J:2:GLU:HA	2.10	0.50
1:J:164:PRO:HG2	1:J:174:ALA:HB3	1.92	0.50
1:J:169:TYR:OH	1:L:40:HIS:HB3	2.10	0.50
1:K:34:ILE:HG12	1:K:69:TYR:CE1	2.46	0.50
1:K:39:ARG:HG2	1:K:66:THR:HB	1.93	0.50
1:L:34:ILE:CG2	1:L:67:LEU:HD22	2.28	0.50
1:N:34:ILE:CG2	1:N:35:VAL:N	2.74	0.50
1:N:164:PRO:HG2	1:N:174:ALA:HB3	1.92	0.50
1:N:347:ALA:HA	1:N:356:TRP:CZ2	2.46	0.50
1:P:164:PRO:HG2	1:P:174:ALA:HB3	1.92	0.50
1:P:369:ILE:C	1:P:371:HIS:H	2.15	0.50
1:Q:32:PRO:CG	1:Q:55:GLY:O	2.55	0.50
1:Q:34:ILE:HG12	1:Q:69:TYR:CE1	2.46	0.50
1:S:34:ILE:HG23	1:S:68:LYS:N	2.26	0.50
1:T:169:TYR:OH	1:V:40:HIS:HB3	2.10	0.50
1:U:34:ILE:HG23	1:U:68:LYS:N	2.26	0.50
1:U:164:PRO:HG2	1:U:174:ALA:HB3	1.92	0.50
1:U:164:PRO:HG3	1:U:174:ALA:HB1	1.92	0.50
1:U:347:ALA:HA	1:U:356:TRP:CZ2	2.46	0.50
1:V:34:ILE:HG23	1:V:68:LYS:N	2.26	0.50
1:V:34:ILE:HG12	1:V:69:TYR:CE1	2.46	0.50
1:W:164:PRO:HG2	1:W:174:ALA:HB3	1.92	0.50
1:A:58:ALA:CA	1:A:65:LEU:CD2	2.89	0.50
1:C:58:ALA:CA	1:C:65:LEU:CD2	2.89	0.50
1:C:169:TYR:OH	1:E:40:HIS:HB3	2.10	0.50
1:G:362:TYR:HD1	1:G:367:PRO:HA	1.75	0.50
1:I:164:PRO:HG3	1:I:174:ALA:HB1	1.92	0.50
1:I:230:ALA:HA	1:I:233:SER:HB2	1.92	0.50
1:K:230:ALA:HA	1:K:233:SER:HB2	1.92	0.50
1:M:347:ALA:HA	1:M:356:TRP:CZ2	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:34:ILE:HG12	1:N:69:TYR:CE1	2.46	0.50
1:N:369:ILE:C	1:N:371:HIS:H	2.15	0.50
1:Q:36:GLY:HA3	1:Q:66:THR:O	2.10	0.50
1:R:58:ALA:CA	1:R:65:LEU:CD2	2.89	0.50
1:R:230:ALA:HA	1:R:233:SER:HB2	1.93	0.50
1:U:32:PRO:CG	1:U:55:GLY:O	2.55	0.50
1:U:167:GLU:OE1	1:W:61:LYS:CE	2.58	0.50
1:U:332:PRO:HG2	1:U:335:ARG:NE	2.26	0.50
1:A:34:ILE:CG2	1:A:67:LEU:HD22	2.27	0.50
1:A:164:PRO:HG2	1:A:174:ALA:HB3	1.92	0.50
1:B:142:LEU:HD21	1:B:165:ILE:CD1	2.39	0.50
1:B:164:PRO:HG3	1:B:174:ALA:HB1	1.92	0.50
1:D:32:PRO:CG	1:D:55:GLY:O	2.55	0.50
1:D:230:ALA:HA	1:D:233:SER:HB2	1.92	0.50
1:E:36:GLY:HA3	1:E:66:THR:O	2.10	0.50
1:E:58:ALA:CA	1:E:65:LEU:CD2	2.89	0.50
1:H:164:PRO:HG2	1:H:174:ALA:HB3	1.92	0.50
1:I:34:ILE:HG12	1:I:69:TYR:CE1	2.46	0.50
1:I:347:ALA:HA	1:I:356:TRP:CZ2	2.46	0.50
1:J:34:ILE:HG23	1:J:68:LYS:N	2.26	0.50
1:J:36:GLY:HA3	1:J:66:THR:O	2.10	0.50
1:K:347:ALA:HA	1:K:356:TRP:CZ2	2.46	0.50
1:L:58:ALA:CA	1:L:65:LEU:CD2	2.89	0.50
1:L:164:PRO:HG2	1:L:174:ALA:HB3	1.92	0.50
1:L:332:PRO:HG2	1:L:335:ARG:NE	2.26	0.50
1:M:230:ALA:HA	1:M:233:SER:HB2	1.92	0.50
1:N:22:ALA:HB1	1:N:348:SER:CB	2.41	0.50
1:O:164:PRO:HG3	1:O:174:ALA:HB1	1.92	0.50
1:P:34:ILE:CG2	1:P:35:VAL:N	2.74	0.50
1:P:169:TYR:OH	1:R:40:HIS:HB3	2.10	0.50
1:Q:34:ILE:HD13	1:Q:67:LEU:CD1	2.41	0.50
1:Q:39:ARG:HG2	1:Q:66:THR:HB	1.93	0.50
1:R:34:ILE:HG12	1:R:69:TYR:CE1	2.46	0.50
1:S:34:ILE:HG12	1:S:69:TYR:CE1	2.46	0.50
1:S:37:ARG:CG	1:S:38:PRO:N	2.75	0.50
1:A:34:ILE:HG12	1:A:69:TYR:CE1	2.46	0.50
1:A:347:ALA:HA	1:A:356:TRP:CZ2	2.47	0.50
1:D:34:ILE:HG23	1:D:68:LYS:N	2.26	0.50
1:D:37:ARG:CG	1:D:38:PRO:N	2.75	0.50
1:F:34:ILE:HD13	1:F:67:LEU:CD1	2.41	0.50
1:F:34:ILE:CG2	1:F:67:LEU:HD22	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:34:ILE:HG12	1:F:69:TYR:CE1	2.46	0.50
1:G:34:ILE:CG2	1:G:35:VAL:N	2.74	0.50
1:G:34:ILE:HG23	1:G:68:LYS:N	2.26	0.50
1:G:347:ALA:HA	1:G:356:TRP:CZ2	2.46	0.50
1:H:169:TYR:OH	1:J:40:HIS:HB3	2.10	0.50
1:I:142:LEU:HD21	1:I:165:ILE:CD1	2.39	0.50
1:I:369:ILE:C	1:I:371:HIS:H	2.15	0.50
1:L:347:ALA:HA	1:L:356:TRP:CZ2	2.46	0.50
1:L:369:ILE:C	1:L:371:HIS:H	2.15	0.50
1:Q:230:ALA:HA	1:Q:233:SER:HB2	1.92	0.50
1:R:369:ILE:C	1:R:371:HIS:H	2.15	0.50
1:S:164:PRO:HG3	1:S:174:ALA:HB1	1.92	0.50
1:U:169:TYR:OH	1:W:40:HIS:HB3	2.10	0.50
1:W:37:ARG:CG	1:W:38:PRO:N	2.75	0.50
1:A:34:ILE:HG23	1:A:68:LYS:N	2.26	0.50
1:B:40:HIS:O	1:B:41:GLN:O	2.30	0.50
1:C:290:ARG:NH1	1:E:244:ASP:OD1	2.45	0.50
1:D:40:HIS:O	1:D:41:GLN:O	2.30	0.50
1:E:332:PRO:HG2	1:E:335:ARG:NE	2.26	0.50
1:E:347:ALA:HA	1:E:356:TRP:CZ2	2.46	0.50
1:F:32:PRO:CG	1:F:55:GLY:O	2.55	0.50
1:G:22:ALA:HB1	1:G:348:SER:CB	2.41	0.50
1:G:332:PRO:HG2	1:G:335:ARG:NE	2.26	0.50
1:H:37:ARG:CG	1:H:38:PRO:N	2.75	0.50
1:H:39:ARG:HG2	1:H:66:THR:HB	1.92	0.50
1:H:147:ARG:CG	1:H:147:ARG:NH2	2.71	0.50
1:J:34:ILE:CG2	1:J:35:VAL:N	2.74	0.50
1:K:369:ILE:C	1:K:371:HIS:H	2.15	0.50
1:N:58:ALA:CA	1:N:65:LEU:CD2	2.88	0.50
1:N:362:TYR:HE1	1:N:367:PRO:CB	2.19	0.50
1:O:34:ILE:HD13	1:O:67:LEU:CD1	2.41	0.50
1:O:39:ARG:HG2	1:O:66:THR:HB	1.93	0.50
1:O:40:HIS:O	1:O:41:GLN:O	2.30	0.50
1:O:361:GLU:HB3	1:O:369:ILE:CD1	2.14	0.50
1:S:362:TYR:HD1	1:S:367:PRO:HA	1.75	0.50
1:T:164:PRO:HG3	1:T:174:ALA:HB1	1.92	0.50
1:V:164:PRO:HG3	1:V:174:ALA:HB1	1.92	0.50
1:W:34:ILE:CG2	1:W:67:LEU:HD22	2.27	0.50
1:B:332:PRO:HG2	1:B:335:ARG:NE	2.26	0.50
1:D:34:ILE:HD13	1:D:67:LEU:CD1	2.41	0.50
1:D:34:ILE:CG2	1:D:35:VAL:N	2.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:39:ARG:HG2	1:D:66:THR:HB	1.93	0.50
1:G:39:ARG:HG2	1:G:66:THR:HB	1.93	0.50
1:J:37:ARG:CG	1:J:38:PRO:N	2.75	0.50
1:J:39:ARG:HG2	1:J:66:THR:HB	1.93	0.50
1:J:362:TYR:HE1	1:J:367:PRO:CB	2.19	0.50
1:K:290:ARG:NH1	1:M:244:ASP:OD1	2.45	0.50
1:L:36:GLY:HA3	1:L:66:THR:O	2.10	0.50
1:M:40:HIS:O	1:M:41:GLN:O	2.30	0.50
1:N:287:ILE:HG13	1:N:288:ASP:N	2.27	0.50
1:O:230:ALA:HA	1:O:233:SER:HB2	1.92	0.50
1:Q:164:PRO:HG3	1:Q:174:ALA:HB1	1.92	0.50
1:R:164:PRO:HG3	1:R:174:ALA:HB1	1.92	0.50
1:R:169:TYR:OH	1:T:40:HIS:HB3	2.10	0.50
1:R:287:ILE:HG13	1:R:288:ASP:N	2.27	0.50
1:R:290:ARG:NH1	1:T:244:ASP:OD1	2.45	0.50
1:A:290:ARG:NH1	1:C:244:ASP:OD1	2.45	0.50
1:B:32:PRO:CG	1:B:55:GLY:O	2.55	0.50
1:B:230:ALA:HA	1:B:233:SER:HB2	1.92	0.50
1:B:347:ALA:HA	1:B:356:TRP:CZ2	2.46	0.50
1:E:34:ILE:HG23	1:E:68:LYS:N	2.26	0.50
1:F:40:HIS:O	1:F:41:GLN:O	2.30	0.50
1:G:230:ALA:HA	1:G:233:SER:HB2	1.92	0.50
1:G:290:ARG:NH1	1:I:244:ASP:OD1	2.45	0.50
1:I:169:TYR:OH	1:K:40:HIS:HB3	2.10	0.50
1:I:290:ARG:NH1	1:K:244:ASP:OD1	2.45	0.50
1:J:347:ALA:HA	1:J:356:TRP:CZ2	2.46	0.50
1:K:40:HIS:O	1:K:41:GLN:O	2.30	0.50
1:M:22:ALA:HB1	1:M:348:SER:CB	2.41	0.50
1:P:290:ARG:NH1	1:R:244:ASP:OD1	2.45	0.50
1:Q:34:ILE:CG2	1:Q:35:VAL:N	2.74	0.50
1:Q:40:HIS:O	1:Q:41:GLN:O	2.30	0.50
1:T:369:ILE:C	1:T:371:HIS:H	2.15	0.50
1:U:39:ARG:HG2	1:U:66:THR:HB	1.93	0.50
1:W:332:PRO:HG2	1:W:335:ARG:NE	2.26	0.50
1:A:169:TYR:OH	1:C:40:HIS:HB3	2.10	0.50
1:A:369:ILE:C	1:A:371:HIS:H	2.15	0.50
1:C:34:ILE:HG12	1:C:69:TYR:CE1	2.46	0.50
1:C:347:ALA:HA	1:C:356:TRP:CZ2	2.47	0.50
1:J:40:HIS:O	1:J:41:GLN:O	2.30	0.50
1:N:37:ARG:CG	1:N:38:PRO:N	2.75	0.50
1:N:290:ARG:NH1	1:P:244:ASP:OD1	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:332:PRO:HG2	1:N:335:ARG:NE	2.26	0.50
1:O:35:VAL:CA	1:O:54:VAL:CG2	2.90	0.50
1:P:58:ALA:CA	1:P:65:LEU:CD2	2.89	0.50
1:R:300:SER:HA	1:R:335:ARG:HG2	1.89	0.50
1:S:34:ILE:CG2	1:S:35:VAL:N	2.74	0.50
1:S:40:HIS:O	1:S:41:GLN:O	2.30	0.50
1:T:35:VAL:CA	1:T:54:VAL:CG2	2.90	0.50
1:V:34:ILE:CG2	1:V:67:LEU:HD22	2.28	0.50
1:V:35:VAL:CA	1:V:54:VAL:CG2	2.90	0.50
1:V:299:MET:HE1	1:V:304:THR:HB	1.94	0.50
1:W:40:HIS:O	1:W:41:GLN:O	2.30	0.50
1:B:34:ILE:HG23	1:B:68:LYS:N	2.26	0.50
1:B:290:ARG:NH1	1:D:244:ASP:OD1	2.45	0.50
1:H:40:HIS:O	1:H:41:GLN:O	2.30	0.50
1:H:347:ALA:HA	1:H:356:TRP:CZ2	2.46	0.50
1:I:37:ARG:CG	1:I:38:PRO:N	2.75	0.50
1:L:37:ARG:CG	1:L:38:PRO:N	2.75	0.50
1:L:40:HIS:O	1:L:41:GLN:O	2.30	0.50
1:L:287:ILE:HG13	1:L:288:ASP:N	2.27	0.50
1:M:34:ILE:HG12	1:M:69:TYR:CE1	2.46	0.50
1:M:369:ILE:C	1:M:371:HIS:H	2.15	0.50
1:O:290:ARG:NH1	1:Q:244:ASP:OD1	2.45	0.50
1:P:287:ILE:HG13	1:P:288:ASP:N	2.27	0.50
1:Q:35:VAL:CA	1:Q:54:VAL:CG2	2.90	0.50
1:T:34:ILE:HG12	1:T:69:TYR:CE1	2.46	0.50
1:U:2:GLU:HA	1:U:2:GLU:OE2	2.10	0.50
1:U:40:HIS:O	1:U:41:GLN:O	2.30	0.50
1:W:39:ARG:HG2	1:W:66:THR:HB	1.93	0.50
1:C:35:VAL:CA	1:C:54:VAL:CG2	2.90	0.49
1:C:37:ARG:CG	1:C:38:PRO:N	2.75	0.49
1:C:39:ARG:HG2	1:C:66:THR:HB	1.93	0.49
1:D:347:ALA:HA	1:D:356:TRP:CZ2	2.46	0.49
1:E:35:VAL:CA	1:E:54:VAL:CG2	2.90	0.49
1:F:2:GLU:OE2	1:F:2:GLU:HA	2.10	0.49
1:G:369:ILE:C	1:G:371:HIS:H	2.15	0.49
1:J:369:ILE:C	1:J:371:HIS:H	2.15	0.49
1:M:34:ILE:CG2	1:M:67:LEU:HD22	2.28	0.49
1:M:35:VAL:CA	1:M:54:VAL:CG2	2.90	0.49
1:O:37:ARG:CG	1:O:38:PRO:N	2.75	0.49
1:Q:290:ARG:NH1	1:S:244:ASP:OD1	2.45	0.49
1:R:35:VAL:CA	1:R:54:VAL:CG2	2.90	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:230:ALA:HA	1:T:233:SER:HB2	1.92	0.49
1:U:34:ILE:CG2	1:U:35:VAL:N	2.74	0.49
1:U:37:ARG:CG	1:U:38:PRO:N	2.75	0.49
1:V:22:ALA:HB1	1:V:348:SER:CB	2.41	0.49
1:W:34:ILE:HG12	1:W:69:TYR:CE1	2.46	0.49
1:W:300:SER:HA	1:W:335:ARG:HG2	1.89	0.49
1:B:34:ILE:HG12	1:B:69:TYR:CE1	2.46	0.49
1:B:35:VAL:CA	1:B:54:VAL:CG2	2.90	0.49
1:F:37:ARG:CG	1:F:38:PRO:N	2.75	0.49
1:H:287:ILE:HG22	1:H:290:ARG:CZ	2.43	0.49
1:J:133:TYR:HH	1:J:375:PHE:HD1	1.60	0.49
1:L:39:ARG:HG2	1:L:66:THR:HB	1.93	0.49
1:M:147:ARG:CG	1:M:147:ARG:NH2	2.71	0.49
1:N:40:HIS:O	1:N:41:GLN:O	2.30	0.49
1:N:142:LEU:HD21	1:N:165:ILE:CD1	2.39	0.49
1:O:34:ILE:CG2	1:O:35:VAL:N	2.74	0.49
1:U:34:ILE:HD13	1:U:67:LEU:CD1	2.41	0.49
1:V:230:ALA:HA	1:V:233:SER:HB2	1.92	0.49
1:A:40:HIS:O	1:A:41:GLN:O	2.30	0.49
1:B:287:ILE:HG22	1:B:290:ARG:CZ	2.43	0.49
1:D:44:MET:CG	1:D:45:VAL:N	2.75	0.49
1:F:347:ALA:HA	1:F:356:TRP:CZ2	2.46	0.49
1:G:287:ILE:HG13	1:G:288:ASP:N	2.27	0.49
1:I:40:HIS:O	1:I:41:GLN:O	2.30	0.49
1:K:34:ILE:HD13	1:K:67:LEU:CD1	2.41	0.49
1:K:147:ARG:CG	1:K:147:ARG:NH2	2.71	0.49
1:K:287:ILE:HG22	1:K:290:ARG:CZ	2.43	0.49
1:L:34:ILE:HG12	1:L:69:TYR:CE1	2.46	0.49
1:O:287:ILE:HG22	1:O:290:ARG:CZ	2.43	0.49
1:P:34:ILE:HG22	1:P:35:VAL:H	1.78	0.49
1:S:39:ARG:HG2	1:S:66:THR:HB	1.93	0.49
1:S:44:MET:CG	1:S:45:VAL:N	2.76	0.49
1:T:37:ARG:CG	1:T:38:PRO:N	2.75	0.49
1:U:287:ILE:HG22	1:U:290:ARG:CZ	2.43	0.49
1:V:40:HIS:O	1:V:41:GLN:O	2.30	0.49
1:A:35:VAL:CA	1:A:54:VAL:CG2	2.90	0.49
1:G:35:VAL:CA	1:G:54:VAL:CG2	2.90	0.49
1:H:34:ILE:CG2	1:H:35:VAL:N	2.74	0.49
1:J:287:ILE:HG13	1:J:288:ASP:N	2.27	0.49
1:L:287:ILE:HG22	1:L:290:ARG:CZ	2.43	0.49
1:O:369:ILE:C	1:O:371:HIS:H	2.15	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:37:ARG:CG	1:R:38:PRO:N	2.75	0.49
1:S:35:VAL:CA	1:S:54:VAL:CG2	2.90	0.49
1:T:227:MET:HA	1:T:227:MET:HE3	1.95	0.49
1:U:22:ALA:HB1	1:U:348:SER:CB	2.41	0.49
1:V:43:VAL:O	1:V:44:MET:HG2	2.13	0.49
1:V:369:ILE:C	1:V:371:HIS:H	2.15	0.49
1:B:34:ILE:HD13	1:B:67:LEU:CD1	2.41	0.49
1:C:369:ILE:C	1:C:371:HIS:H	2.15	0.49
1:E:287:ILE:HG13	1:E:288:ASP:N	2.27	0.49
1:F:22:ALA:HB1	1:F:348:SER:CB	2.41	0.49
1:F:39:ARG:HG2	1:F:66:THR:HB	1.93	0.49
1:F:299:MET:HE1	1:F:304:THR:HB	1.94	0.49
1:G:37:ARG:CG	1:G:38:PRO:N	2.75	0.49
1:G:40:HIS:O	1:G:41:GLN:O	2.30	0.49
1:H:43:VAL:O	1:H:44:MET:HG2	2.13	0.49
1:I:34:ILE:HG22	1:I:35:VAL:H	1.78	0.49
1:J:43:VAL:O	1:J:44:MET:HG2	2.13	0.49
1:J:290:ARG:NH1	1:L:244:ASP:OD1	2.45	0.49
1:L:43:VAL:O	1:L:44:MET:HG2	2.13	0.49
1:M:290:ARG:NH1	1:O:244:ASP:OD1	2.45	0.49
1:P:35:VAL:CA	1:P:54:VAL:CG2	2.90	0.49
1:P:40:HIS:O	1:P:41:GLN:O	2.30	0.49
1:R:34:ILE:HG22	1:R:35:VAL:H	1.78	0.49
1:S:34:ILE:HD13	1:S:67:LEU:CD1	2.41	0.49
1:T:290:ARG:NH1	1:V:244:ASP:OD1	2.45	0.49
1:U:369:ILE:C	1:U:371:HIS:H	2.15	0.49
1:W:34:ILE:HD13	1:W:67:LEU:CD1	2.41	0.49
1:W:34:ILE:CG2	1:W:35:VAL:N	2.74	0.49
1:W:43:VAL:O	1:W:44:MET:HG2	2.13	0.49
1:W:369:ILE:C	1:W:371:HIS:H	2.15	0.49
1:A:37:ARG:CG	1:A:38:PRO:N	2.75	0.49
1:C:40:HIS:O	1:C:41:GLN:O	2.30	0.49
1:F:34:ILE:CG2	1:F:35:VAL:N	2.74	0.49
1:H:32:PRO:CG	1:H:55:GLY:O	2.55	0.49
1:H:290:ARG:NH1	1:J:244:ASP:OD1	2.45	0.49
1:K:35:VAL:CA	1:K:54:VAL:CG2	2.90	0.49
1:K:43:VAL:O	1:K:44:MET:HG2	2.13	0.49
1:M:299:MET:HE1	1:M:304:THR:HB	1.94	0.49
1:N:39:ARG:HG2	1:N:66:THR:HB	1.93	0.49
1:N:287:ILE:HG22	1:N:290:ARG:CZ	2.43	0.49
1:Q:287:ILE:HG22	1:Q:290:ARG:CZ	2.43	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:142:LEU:HD21	1:S:165:ILE:CD1	2.38	0.49
1:S:147:ARG:CG	1:S:147:ARG:NH2	2.71	0.49
1:T:39:ARG:HG2	1:T:66:THR:HB	1.93	0.49
1:T:40:HIS:O	1:T:41:GLN:O	2.30	0.49
1:T:43:VAL:O	1:T:44:MET:HG2	2.13	0.49
1:T:287:ILE:HG13	1:T:288:ASP:N	2.27	0.49
1:D:147:ARG:CG	1:D:147:ARG:NH2	2.71	0.49
1:D:290:ARG:NH1	1:F:244:ASP:OD1	2.45	0.49
1:F:361:GLU:HB3	1:F:369:ILE:CD1	2.14	0.49
1:G:34:ILE:HG22	1:G:35:VAL:H	1.78	0.49
1:H:270:GLU:O	1:H:270:GLU:CD	2.51	0.49
1:I:287:ILE:HG13	1:I:288:ASP:N	2.27	0.49
1:K:8:LEU:HB2	1:K:103:THR:HA	1.95	0.49
1:P:22:ALA:HB1	1:P:348:SER:CB	2.41	0.49
1:P:39:ARG:HG2	1:P:66:THR:HB	1.93	0.49
1:Q:299:MET:HE1	1:Q:304:THR:HB	1.94	0.49
1:Q:369:ILE:C	1:Q:371:HIS:H	2.15	0.49
1:R:40:HIS:O	1:R:41:GLN:O	2.30	0.49
1:S:290:ARG:NH1	1:U:244:ASP:OD1	2.45	0.49
1:S:369:ILE:C	1:S:371:HIS:H	2.15	0.49
1:U:44:MET:CG	1:U:45:VAL:N	2.75	0.49
1:V:37:ARG:CG	1:V:38:PRO:N	2.75	0.49
1:A:39:ARG:HG2	1:A:66:THR:HB	1.93	0.49
1:B:147:ARG:CG	1:B:147:ARG:NH2	2.71	0.49
1:B:287:ILE:HG13	1:B:288:ASP:N	2.27	0.49
1:C:287:ILE:HG22	1:C:290:ARG:CZ	2.43	0.49
1:D:287:ILE:HG22	1:D:290:ARG:CZ	2.43	0.49
1:E:37:ARG:CG	1:E:38:PRO:N	2.75	0.49
1:E:40:HIS:O	1:E:41:GLN:O	2.30	0.49
1:E:369:ILE:C	1:E:371:HIS:H	2.15	0.49
1:F:287:ILE:HG22	1:F:290:ARG:CZ	2.43	0.49
1:F:290:ARG:NH1	1:H:244:ASP:OD1	2.45	0.49
1:G:287:ILE:HG22	1:G:290:ARG:CZ	2.43	0.49
1:L:290:ARG:NH1	1:N:244:ASP:OD1	2.45	0.49
1:M:58:ALA:HA	1:M:65:LEU:CD2	2.43	0.49
1:N:270:GLU:O	1:N:270:GLU:CD	2.51	0.49
1:O:298:VAL:HG12	1:O:335:ARG:NH1	2.28	0.49
1:Q:37:ARG:CG	1:Q:38:PRO:N	2.75	0.49
1:Q:43:VAL:O	1:Q:44:MET:HG2	2.13	0.49
1:S:32:PRO:CG	1:S:55:GLY:O	2.55	0.49
1:S:43:VAL:O	1:S:44:MET:HG2	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:287:ILE:HG22	1:T:290:ARG:CZ	2.43	0.49
1:U:300:SER:HA	1:U:335:ARG:HG2	1.89	0.49
1:V:8:LEU:HB2	1:V:103:THR:HA	1.95	0.49
1:W:287:ILE:HG22	1:W:290:ARG:CZ	2.43	0.49
1:C:270:GLU:O	1:C:270:GLU:CD	2.51	0.49
1:D:43:VAL:O	1:D:44:MET:HG2	2.13	0.49
1:F:298:VAL:HG12	1:F:335:ARG:NH1	2.28	0.49
1:G:43:VAL:O	1:G:44:MET:HG2	2.13	0.49
1:G:142:LEU:HD21	1:G:165:ILE:CD1	2.38	0.49
1:G:147:ARG:CG	1:G:147:ARG:NH2	2.71	0.49
1:H:34:ILE:HD13	1:H:67:LEU:CD1	2.41	0.49
1:H:287:ILE:HG13	1:H:288:ASP:N	2.27	0.49
1:I:8:LEU:HB2	1:I:103:THR:HA	1.95	0.49
1:I:35:VAL:CA	1:I:54:VAL:CG2	2.90	0.49
1:I:287:ILE:HG22	1:I:290:ARG:CZ	2.43	0.49
1:J:34:ILE:HD13	1:J:67:LEU:CD1	2.41	0.49
1:M:37:ARG:CG	1:M:38:PRO:N	2.75	0.49
1:P:287:ILE:HG22	1:P:290:ARG:CZ	2.43	0.49
1:Q:298:VAL:HG12	1:Q:335:ARG:NH1	2.28	0.49
1:S:270:GLU:O	1:S:270:GLU:CD	2.52	0.49
1:U:290:ARG:NH1	1:W:244:ASP:OD1	2.45	0.49
1:U:362:TYR:HE1	1:U:367:PRO:CB	2.19	0.49
1:V:39:ARG:NE	1:V:66:THR:CA	2.69	0.49
1:V:147:ARG:CG	1:V:147:ARG:NH2	2.71	0.49
1:W:270:GLU:O	1:W:270:GLU:CD	2.51	0.49
1:A:43:VAL:O	1:A:44:MET:HG2	2.13	0.49
1:B:8:LEU:HB2	1:B:103:THR:HA	1.95	0.49
1:B:270:GLU:O	1:B:270:GLU:CD	2.51	0.49
1:C:287:ILE:HG13	1:C:288:ASP:N	2.27	0.49
1:E:270:GLU:CD	1:E:270:GLU:O	2.52	0.49
1:E:290:ARG:NH1	1:G:244:ASP:OD1	2.45	0.49
1:F:44:MET:CG	1:F:45:VAL:N	2.76	0.49
1:H:58:ALA:HA	1:H:65:LEU:CD2	2.43	0.49
1:H:298:VAL:HG12	1:H:335:ARG:NH1	2.28	0.49
1:H:369:ILE:C	1:H:371:HIS:H	2.15	0.49
1:I:147:ARG:CG	1:I:147:ARG:NH2	2.71	0.49
1:J:180:LEU:HD12	1:J:181:ALA:O	2.13	0.49
1:K:37:ARG:CG	1:K:38:PRO:N	2.75	0.49
1:L:35:VAL:CA	1:L:54:VAL:CG2	2.90	0.49
1:M:34:ILE:HD13	1:M:67:LEU:CD1	2.41	0.49
1:N:34:ILE:HG22	1:N:35:VAL:H	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:35:VAL:CA	1:N:54:VAL:CG2	2.90	0.49
1:O:43:VAL:O	1:O:44:MET:HG2	2.13	0.49
1:O:58:ALA:HA	1:O:65:LEU:CD2	2.43	0.49
1:P:43:VAL:O	1:P:44:MET:HG2	2.13	0.49
1:Q:2:GLU:OE2	1:Q:2:GLU:HA	2.10	0.49
1:T:8:LEU:HB2	1:T:103:THR:HA	1.95	0.49
1:T:270:GLU:O	1:T:270:GLU:CD	2.51	0.49
1:U:58:ALA:HA	1:U:65:LEU:CD2	2.43	0.49
1:V:180:LEU:HD12	1:V:181:ALA:O	2.13	0.49
1:V:287:ILE:HG13	1:V:288:ASP:N	2.27	0.49
1:W:34:ILE:HG22	1:W:35:VAL:H	1.78	0.49
1:A:22:ALA:HB1	1:A:348:SER:CB	2.41	0.48
1:B:2:GLU:HA	1:B:2:GLU:OE2	2.11	0.48
1:C:54:VAL:CG1	1:C:55:GLY:N	2.72	0.48
1:D:298:VAL:HG12	1:D:335:ARG:NH1	2.28	0.48
1:E:180:LEU:HD12	1:E:181:ALA:O	2.13	0.48
1:F:58:ALA:HA	1:F:65:LEU:CD2	2.43	0.48
1:J:287:ILE:HG22	1:J:290:ARG:CZ	2.43	0.48
1:K:58:ALA:HA	1:K:65:LEU:CD2	2.43	0.48
1:K:180:LEU:HD12	1:K:181:ALA:O	2.13	0.48
1:M:8:LEU:HB2	1:M:103:THR:HA	1.95	0.48
1:M:298:VAL:HG12	1:M:335:ARG:NH1	2.28	0.48
1:Q:270:GLU:O	1:Q:270:GLU:CD	2.51	0.48
1:S:8:LEU:HB2	1:S:103:THR:HA	1.95	0.48
1:S:287:ILE:HG13	1:S:288:ASP:N	2.27	0.48
1:S:287:ILE:HG22	1:S:290:ARG:CZ	2.43	0.48
1:T:58:ALA:HA	1:T:65:LEU:CD2	2.43	0.48
1:U:8:LEU:HB2	1:U:103:THR:HA	1.95	0.48
1:U:34:ILE:HG22	1:U:35:VAL:H	1.78	0.48
1:U:180:LEU:HD12	1:U:181:ALA:O	2.13	0.48
1:V:34:ILE:HD13	1:V:67:LEU:CD1	2.41	0.48
1:W:35:VAL:CA	1:W:54:VAL:CG2	2.90	0.48
1:A:287:ILE:HG22	1:A:290:ARG:CZ	2.43	0.48
1:A:299:MET:HE1	1:A:304:THR:HB	1.96	0.48
1:B:37:ARG:CG	1:B:38:PRO:N	2.75	0.48
1:B:58:ALA:CB	1:B:65:LEU:CD2	2.90	0.48
1:B:173:HIS:NE2	1:C:267:ILE:C	2.67	0.48
1:C:147:ARG:CG	1:C:147:ARG:NH2	2.71	0.48
1:D:173:HIS:NE2	1:E:267:ILE:C	2.67	0.48
1:D:270:GLU:O	1:D:270:GLU:CD	2.51	0.48
1:D:287:ILE:HG13	1:D:288:ASP:N	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:173:HIS:NE2	1:G:267:ILE:C	2.67	0.48
1:G:173:HIS:NE2	1:H:267:ILE:C	2.67	0.48
1:I:34:ILE:HD13	1:I:67:LEU:CD1	2.41	0.48
1:M:43:VAL:O	1:M:44:MET:HG2	2.13	0.48
1:M:173:HIS:NE2	1:N:267:ILE:C	2.67	0.48
1:M:227:MET:HA	1:M:227:MET:HE3	1.95	0.48
1:O:173:HIS:NE2	1:P:267:ILE:C	2.67	0.48
1:P:180:LEU:HD12	1:P:181:ALA:O	2.13	0.48
1:Q:34:ILE:HG22	1:Q:35:VAL:H	1.78	0.48
1:Q:287:ILE:HG13	1:Q:288:ASP:N	2.27	0.48
1:W:8:LEU:HB2	1:W:103:THR:HA	1.95	0.48
1:W:58:ALA:HA	1:W:65:LEU:CD2	2.43	0.48
1:W:223:PHE:CD1	1:W:259:GLU:CG	2.96	0.48
1:A:34:ILE:HG22	1:A:54:VAL:HG21	1.95	0.48
1:C:34:ILE:HG22	1:C:54:VAL:HG21	1.96	0.48
1:D:58:ALA:HA	1:D:65:LEU:CD2	2.43	0.48
1:E:43:VAL:O	1:E:44:MET:HG2	2.13	0.48
1:G:39:ARG:NE	1:G:66:THR:CA	2.69	0.48
1:H:35:VAL:CA	1:H:54:VAL:CG2	2.90	0.48
1:H:173:HIS:NE2	1:I:267:ILE:C	2.67	0.48
1:I:43:VAL:O	1:I:44:MET:HG2	2.13	0.48
1:K:270:GLU:O	1:K:270:GLU:CD	2.51	0.48
1:K:287:ILE:HG13	1:K:288:ASP:N	2.27	0.48
1:L:34:ILE:HD13	1:L:67:LEU:CD1	2.41	0.48
1:O:147:ARG:CG	1:O:147:ARG:NH2	2.71	0.48
1:O:227:MET:HA	1:O:227:MET:HE3	1.95	0.48
1:P:270:GLU:O	1:P:270:GLU:CD	2.51	0.48
1:Q:34:ILE:CG2	1:Q:67:LEU:HD22	2.28	0.48
1:Q:173:HIS:NE2	1:R:267:ILE:C	2.67	0.48
1:Q:362:TYR:HE1	1:Q:367:PRO:CB	2.19	0.48
1:R:43:VAL:O	1:R:44:MET:HG2	2.13	0.48
1:R:270:GLU:O	1:R:270:GLU:CD	2.52	0.48
1:S:34:ILE:HG22	1:S:35:VAL:H	1.78	0.48
1:S:173:HIS:NE2	1:T:267:ILE:C	2.67	0.48
1:U:223:PHE:CD1	1:U:259:GLU:CG	2.96	0.48
1:V:58:ALA:HA	1:V:65:LEU:CD2	2.43	0.48
1:V:287:ILE:HG22	1:V:290:ARG:CZ	2.43	0.48
1:V:298:VAL:HG12	1:V:335:ARG:NH1	2.28	0.48
1:A:287:ILE:HG13	1:A:288:ASP:N	2.27	0.48
1:A:298:VAL:HG12	1:A:335:ARG:NH1	2.28	0.48
1:C:34:ILE:CG2	1:C:67:LEU:HD22	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:180:LEU:HD12	1:D:181:ALA:O	2.13	0.48
1:E:34:ILE:HG22	1:E:35:VAL:H	1.78	0.48
1:E:287:ILE:HG22	1:E:290:ARG:CZ	2.43	0.48
1:I:173:HIS:NE2	1:J:267:ILE:C	2.67	0.48
1:J:270:GLU:O	1:J:270:GLU:CD	2.52	0.48
1:J:298:VAL:HG12	1:J:335:ARG:NH1	2.28	0.48
1:K:173:HIS:NE2	1:L:267:ILE:C	2.67	0.48
1:L:142:LEU:HD21	1:L:165:ILE:CD1	2.38	0.48
1:L:270:GLU:O	1:L:270:GLU:CD	2.51	0.48
1:M:287:ILE:HG22	1:M:290:ARG:CZ	2.43	0.48
1:O:34:ILE:HG23	1:O:68:LYS:H	1.79	0.48
1:Q:142:LEU:HD21	1:Q:165:ILE:CD1	2.39	0.48
1:Q:223:PHE:CD1	1:Q:259:GLU:CG	2.96	0.48
1:R:8:LEU:HB2	1:R:103:THR:HA	1.95	0.48
1:R:147:ARG:CG	1:R:147:ARG:NH2	2.71	0.48
1:R:287:ILE:HG22	1:R:290:ARG:CZ	2.43	0.48
1:S:34:ILE:HG23	1:S:68:LYS:H	1.79	0.48
1:S:58:ALA:HA	1:S:65:LEU:CD2	2.43	0.48
1:U:34:ILE:HG23	1:U:68:LYS:H	1.79	0.48
1:V:270:GLU:O	1:V:270:GLU:CD	2.51	0.48
1:W:298:VAL:HG12	1:W:335:ARG:NH1	2.28	0.48
1:W:335:ARG:O	1:W:338:SER:HB3	2.14	0.48
1:A:34:ILE:HG23	1:A:68:LYS:H	1.79	0.48
1:C:223:PHE:CD1	1:C:259:GLU:CG	2.96	0.48
1:D:8:LEU:HB2	1:D:103:THR:HA	1.95	0.48
1:E:34:ILE:HG22	1:E:54:VAL:HG21	1.96	0.48
1:E:34:ILE:HG23	1:E:68:LYS:H	1.79	0.48
1:F:43:VAL:O	1:F:44:MET:HG2	2.13	0.48
1:F:270:GLU:O	1:F:270:GLU:CD	2.51	0.48
1:F:287:ILE:HG13	1:F:288:ASP:N	2.27	0.48
1:G:8:LEU:HB2	1:G:103:THR:HA	1.95	0.48
1:G:180:LEU:HD12	1:G:181:ALA:O	2.13	0.48
1:J:35:VAL:CA	1:J:54:VAL:CG2	2.90	0.48
1:N:34:ILE:HG23	1:N:68:LYS:H	1.79	0.48
1:O:223:PHE:CD1	1:O:259:GLU:CG	2.96	0.48
1:P:300:SER:HA	1:P:335:ARG:HG2	1.89	0.48
1:Q:58:ALA:HA	1:Q:65:LEU:CD2	2.43	0.48
1:Q:236:LEU:HD22	1:Q:251:GLY:C	2.34	0.48
1:R:173:HIS:NE2	1:S:267:ILE:C	2.67	0.48
1:S:223:PHE:CD1	1:S:259:GLU:CG	2.96	0.48
1:S:298:VAL:HG12	1:S:335:ARG:NH1	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:300:SER:HA	1:S:335:ARG:HG2	1.89	0.48
1:S:335:ARG:O	1:S:338:SER:HB3	2.13	0.48
1:V:173:HIS:NE2	1:W:267:ILE:C	2.67	0.48
1:W:34:ILE:HG23	1:W:68:LYS:H	1.79	0.48
1:B:180:LEU:HD12	1:B:181:ALA:O	2.13	0.48
1:B:369:ILE:C	1:B:371:HIS:H	2.15	0.48
1:C:43:VAL:O	1:C:44:MET:HG2	2.13	0.48
1:C:227:MET:HA	1:C:227:MET:HE3	1.95	0.48
1:D:34:ILE:HG23	1:D:68:LYS:H	1.79	0.48
1:I:31:PHE:HA	1:I:32:PRO:HD3	1.65	0.48
1:I:58:ALA:HA	1:I:65:LEU:CD2	2.43	0.48
1:J:39:ARG:NE	1:J:66:THR:CA	2.69	0.48
1:L:34:ILE:HG22	1:L:35:VAL:H	1.78	0.48
1:M:58:ALA:CB	1:M:65:LEU:CD2	2.90	0.48
1:M:270:GLU:O	1:M:270:GLU:CD	2.52	0.48
1:O:180:LEU:HD12	1:O:181:ALA:O	2.13	0.48
1:O:236:LEU:HD22	1:O:251:GLY:C	2.34	0.48
1:U:335:ARG:O	1:U:338:SER:HB3	2.14	0.48
1:A:361:GLU:HB3	1:A:369:ILE:CD1	2.14	0.48
1:A:369:ILE:HG22	1:A:370:VAL:N	2.29	0.48
1:B:58:ALA:HA	1:B:65:LEU:CD2	2.43	0.48
1:C:34:ILE:HG23	1:C:68:LYS:H	1.79	0.48
1:D:58:ALA:CB	1:D:65:LEU:CD2	2.90	0.48
1:F:34:ILE:HG23	1:F:68:LYS:H	1.79	0.48
1:F:35:VAL:CA	1:F:54:VAL:CG2	2.90	0.48
1:F:369:ILE:C	1:F:371:HIS:H	2.15	0.48
1:G:58:ALA:CB	1:G:65:LEU:CD2	2.90	0.48
1:H:8:LEU:HB2	1:H:103:THR:HA	1.95	0.48
1:H:180:LEU:HD12	1:H:181:ALA:O	2.13	0.48
1:I:2:GLU:OE2	1:I:2:GLU:HA	2.10	0.48
1:J:8:LEU:HB2	1:J:103:THR:HA	1.95	0.48
1:K:298:VAL:HG12	1:K:335:ARG:NH1	2.28	0.48
1:M:2:GLU:OE2	1:M:2:GLU:HA	2.11	0.48
1:M:223:PHE:CD1	1:M:259:GLU:CG	2.96	0.48
1:M:287:ILE:HG13	1:M:288:ASP:N	2.27	0.48
1:N:43:VAL:O	1:N:44:MET:HG2	2.13	0.48
1:N:180:LEU:HD12	1:N:181:ALA:O	2.13	0.48
1:O:8:LEU:HB2	1:O:103:THR:HA	1.95	0.48
1:Q:335:ARG:O	1:Q:338:SER:HB3	2.13	0.48
1:R:58:ALA:HA	1:R:65:LEU:CD2	2.43	0.48
1:R:180:LEU:HD12	1:R:181:ALA:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:180:LEU:HD12	1:S:181:ALA:O	2.13	0.48
1:T:34:ILE:HG22	1:T:54:VAL:HG21	1.96	0.48
1:T:298:VAL:HG12	1:T:335:ARG:NH1	2.28	0.48
1:V:34:ILE:HG23	1:V:68:LYS:H	1.79	0.48
1:D:35:VAL:CA	1:D:54:VAL:CG2	2.90	0.48
1:E:173:HIS:NE2	1:F:267:ILE:C	2.67	0.48
1:G:34:ILE:HG22	1:G:54:VAL:HG21	1.96	0.48
1:G:369:ILE:HG22	1:G:370:VAL:N	2.29	0.48
1:I:8:LEU:O	1:I:104:LEU:N	2.47	0.48
1:I:270:GLU:O	1:I:270:GLU:CD	2.52	0.48
1:J:58:ALA:HA	1:J:65:LEU:CD2	2.43	0.48
1:L:8:LEU:HB2	1:L:103:THR:HA	1.95	0.48
1:M:34:ILE:HG23	1:M:68:LYS:H	1.79	0.48
1:M:362:TYR:HE1	1:M:367:PRO:CB	2.19	0.48
1:N:173:HIS:NE2	1:O:267:ILE:C	2.67	0.48
1:N:335:ARG:O	1:N:338:SER:HB3	2.14	0.48
1:P:8:LEU:HB2	1:P:103:THR:HA	1.95	0.48
1:P:369:ILE:HG22	1:P:370:VAL:N	2.29	0.48
1:Q:180:LEU:HD12	1:Q:181:ALA:O	2.13	0.48
1:R:44:MET:CG	1:R:45:VAL:N	2.75	0.48
1:T:173:HIS:NE2	1:U:267:ILE:C	2.67	0.48
1:U:58:ALA:CB	1:U:65:LEU:CD2	2.90	0.48
1:U:173:HIS:NE2	1:V:267:ILE:C	2.67	0.48
1:U:270:GLU:O	1:U:270:GLU:CD	2.52	0.48
1:V:34:ILE:HG22	1:V:54:VAL:HG21	1.96	0.48
1:A:58:ALA:HA	1:A:65:LEU:CD2	2.43	0.48
1:A:288:ASP:OD2	1:C:204:ALA:HB1	2.14	0.48
1:B:298:VAL:HG12	1:B:335:ARG:NH1	2.28	0.48
1:C:288:ASP:OD2	1:E:204:ALA:HB1	2.14	0.48
1:C:335:ARG:O	1:C:338:SER:HB3	2.14	0.48
1:E:34:ILE:HD13	1:E:67:LEU:CD1	2.41	0.48
1:F:180:LEU:HD12	1:F:181:ALA:O	2.13	0.48
1:G:58:ALA:HA	1:G:65:LEU:CD2	2.43	0.48
1:J:236:LEU:HD22	1:J:251:GLY:C	2.34	0.48
1:K:223:PHE:CD1	1:K:259:GLU:CG	2.96	0.48
1:L:236:LEU:HD22	1:L:251:GLY:C	2.34	0.48
1:L:335:ARG:O	1:L:338:SER:HB3	2.14	0.48
1:M:180:LEU:O	1:M:180:LEU:HG	2.11	0.48
1:O:335:ARG:O	1:O:338:SER:HB3	2.14	0.48
1:P:37:ARG:CG	1:P:38:PRO:N	2.75	0.48
1:P:173:HIS:NE2	1:Q:267:ILE:C	2.67	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:34:ILE:HG22	1:R:54:VAL:HG21	1.95	0.48
1:S:58:ALA:CB	1:S:65:LEU:CD2	2.90	0.48
1:S:236:LEU:HD22	1:S:251:GLY:C	2.34	0.48
1:T:34:ILE:HD13	1:T:67:LEU:CD1	2.41	0.48
1:T:180:LEU:HD12	1:T:181:ALA:O	2.13	0.48
1:U:227:MET:HA	1:U:227:MET:HE3	1.95	0.48
1:V:227:MET:HA	1:V:227:MET:HE3	1.96	0.48
1:V:369:ILE:HG22	1:V:370:VAL:N	2.29	0.48
1:A:34:ILE:HD13	1:A:67:LEU:CD1	2.41	0.48
1:A:270:GLU:O	1:A:270:GLU:CD	2.51	0.48
1:B:31:PHE:HA	1:B:32:PRO:HD3	1.66	0.48
1:C:58:ALA:HA	1:C:65:LEU:CD2	2.43	0.48
1:C:180:LEU:HD12	1:C:181:ALA:O	2.13	0.48
1:C:298:VAL:HG12	1:C:335:ARG:NH1	2.28	0.48
1:D:288:ASP:OD2	1:F:204:ALA:HB1	2.14	0.48
1:E:58:ALA:CB	1:E:65:LEU:CD2	2.90	0.48
1:E:223:PHE:CD1	1:E:259:GLU:CG	2.96	0.48
1:E:335:ARG:O	1:E:338:SER:HB3	2.14	0.48
1:G:270:GLU:O	1:G:270:GLU:CD	2.52	0.48
1:H:58:ALA:O	1:H:59:GLN:C	2.52	0.48
1:H:236:LEU:HD22	1:H:251:GLY:C	2.34	0.48
1:H:288:ASP:OD2	1:J:204:ALA:HB1	2.14	0.48
1:I:22:ALA:HB1	1:I:348:SER:CB	2.41	0.48
1:I:180:LEU:HD12	1:I:181:ALA:O	2.13	0.48
1:I:227:MET:HA	1:I:227:MET:HE3	1.96	0.48
1:J:335:ARG:O	1:J:338:SER:HB3	2.14	0.48
1:J:369:ILE:HG22	1:J:370:VAL:N	2.29	0.48
1:L:34:ILE:HG23	1:L:68:LYS:H	1.79	0.48
1:L:288:ASP:OD2	1:N:204:ALA:HB1	2.14	0.48
1:M:335:ARG:O	1:M:338:SER:HB3	2.14	0.48
1:M:369:ILE:HG22	1:M:370:VAL:N	2.29	0.48
1:N:8:LEU:HB2	1:N:103:THR:HA	1.95	0.48
1:O:22:ALA:HB1	1:O:348:SER:CB	2.41	0.48
1:O:288:ASP:OD2	1:Q:204:ALA:HB1	2.14	0.48
1:P:288:ASP:OD2	1:R:204:ALA:HB1	2.14	0.48
1:P:335:ARG:O	1:P:338:SER:HB3	2.14	0.48
1:Q:34:ILE:HG23	1:Q:68:LYS:H	1.79	0.48
1:R:298:VAL:HG12	1:R:335:ARG:NH1	2.28	0.48
1:S:58:ALA:O	1:S:59:GLN:C	2.53	0.48
1:T:8:LEU:O	1:T:104:LEU:N	2.47	0.48
1:T:44:MET:CG	1:T:45:VAL:N	2.75	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:236:LEU:HD11	1:T:237:GLU:HG2	1.96	0.48
1:U:35:VAL:CA	1:U:54:VAL:CG2	2.90	0.48
1:U:43:VAL:O	1:U:44:MET:HG2	2.13	0.48
1:U:287:ILE:HG13	1:U:288:ASP:N	2.27	0.48
1:W:22:ALA:HB1	1:W:348:SER:CB	2.41	0.48
1:A:58:ALA:O	1:A:59:GLN:C	2.53	0.47
1:A:180:LEU:HD12	1:A:181:ALA:O	2.14	0.47
1:A:335:ARG:O	1:A:338:SER:HB3	2.14	0.47
1:D:58:ALA:O	1:D:59:GLN:C	2.53	0.47
1:D:369:ILE:C	1:D:371:HIS:H	2.15	0.47
1:E:8:LEU:HB2	1:E:103:THR:HA	1.95	0.47
1:G:223:PHE:CD1	1:G:259:GLU:CG	2.96	0.47
1:G:236:LEU:HD22	1:G:251:GLY:C	2.34	0.47
1:G:236:LEU:HD11	1:G:237:GLU:HG2	1.96	0.47
1:H:236:LEU:HD11	1:H:237:GLU:HG2	1.96	0.47
1:I:223:PHE:CD1	1:I:259:GLU:CG	2.96	0.47
1:J:173:HIS:NE2	1:K:267:ILE:C	2.67	0.47
1:J:236:LEU:HD11	1:J:237:GLU:HG2	1.96	0.47
1:K:58:ALA:CB	1:K:65:LEU:CD2	2.90	0.47
1:L:58:ALA:O	1:L:59:GLN:C	2.53	0.47
1:L:180:LEU:HD12	1:L:181:ALA:O	2.13	0.47
1:N:236:LEU:HD22	1:N:251:GLY:C	2.34	0.47
1:O:34:ILE:HG22	1:O:35:VAL:H	1.78	0.47
1:O:287:ILE:HG13	1:O:288:ASP:N	2.27	0.47
1:P:44:MET:CG	1:P:45:VAL:N	2.76	0.47
1:P:58:ALA:O	1:P:59:GLN:C	2.53	0.47
1:Q:58:ALA:CB	1:Q:65:LEU:CD2	2.90	0.47
1:Q:288:ASP:OD2	1:S:204:ALA:HB1	2.14	0.47
1:S:288:ASP:OD2	1:U:204:ALA:HB1	2.14	0.47
1:T:34:ILE:HG23	1:T:68:LYS:H	1.79	0.47
1:V:8:LEU:O	1:V:104:LEU:N	2.47	0.47
1:W:58:ALA:O	1:W:59:GLN:C	2.53	0.47
1:W:287:ILE:HG13	1:W:288:ASP:N	2.27	0.47
1:A:173:HIS:NE2	1:B:267:ILE:C	2.67	0.47
1:A:287:ILE:HD12	1:C:208:ILE:HD13	1.96	0.47
1:E:2:GLU:OE2	1:E:2:GLU:HA	2.11	0.47
1:E:58:ALA:HA	1:E:65:LEU:CD2	2.43	0.47
1:E:236:LEU:HD22	1:E:251:GLY:C	2.34	0.47
1:E:236:LEU:HD11	1:E:237:GLU:HG2	1.96	0.47
1:E:288:ASP:OD2	1:G:204:ALA:HB1	2.14	0.47
1:G:34:ILE:HG23	1:G:68:LYS:H	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:236:LEU:HD22	1:I:251:GLY:C	2.34	0.47
1:I:369:ILE:HG22	1:I:370:VAL:N	2.29	0.47
1:J:288:ASP:OD2	1:L:204:ALA:HB1	2.14	0.47
1:K:8:LEU:O	1:K:104:LEU:N	2.47	0.47
1:L:287:ILE:HD12	1:N:208:ILE:HD13	1.96	0.47
1:N:143:TYR:CZ	1:N:345:ILE:CG2	2.98	0.47
1:N:236:LEU:HD11	1:N:237:GLU:HG2	1.96	0.47
1:O:58:ALA:O	1:O:59:GLN:C	2.53	0.47
1:O:270:GLU:O	1:O:270:GLU:CD	2.51	0.47
1:P:34:ILE:HD13	1:P:67:LEU:CD1	2.41	0.47
1:P:34:ILE:HG23	1:P:68:LYS:H	1.79	0.47
1:P:236:LEU:HD11	1:P:237:GLU:HG2	1.96	0.47
1:P:298:VAL:HG12	1:P:335:ARG:NH1	2.28	0.47
1:Q:8:LEU:HB2	1:Q:103:THR:HA	1.95	0.47
1:Q:300:SER:HA	1:Q:335:ARG:HG2	1.89	0.47
1:R:227:MET:HA	1:R:227:MET:HE3	1.96	0.47
1:R:236:LEU:HD11	1:R:237:GLU:HG2	1.97	0.47
1:R:369:ILE:HG22	1:R:370:VAL:N	2.29	0.47
1:U:236:LEU:HD11	1:U:237:GLU:HG2	1.97	0.47
1:W:236:LEU:HD11	1:W:237:GLU:HG2	1.96	0.47
1:B:43:VAL:O	1:B:44:MET:HG2	2.13	0.47
1:B:58:ALA:O	1:B:59:GLN:C	2.53	0.47
1:C:236:LEU:HD11	1:C:237:GLU:HG2	1.96	0.47
1:E:58:ALA:O	1:E:59:GLN:C	2.53	0.47
1:E:298:VAL:HG12	1:E:335:ARG:NH1	2.28	0.47
1:F:8:LEU:HB2	1:F:103:THR:HA	1.95	0.47
1:F:236:LEU:HD22	1:F:251:GLY:C	2.34	0.47
1:F:288:ASP:OD2	1:H:204:ALA:HB1	2.14	0.47
1:G:335:ARG:O	1:G:338:SER:HB3	2.14	0.47
1:H:34:ILE:CG2	1:H:67:LEU:HD22	2.28	0.47
1:L:34:ILE:HG22	1:L:54:VAL:HG21	1.95	0.47
1:L:236:LEU:HD11	1:L:237:GLU:HG2	1.97	0.47
1:L:298:VAL:HG12	1:L:335:ARG:NH1	2.28	0.47
1:M:180:LEU:HD12	1:M:181:ALA:O	2.13	0.47
1:M:236:LEU:HD22	1:M:251:GLY:C	2.34	0.47
1:N:298:VAL:HG12	1:N:335:ARG:NH1	2.28	0.47
1:O:8:LEU:O	1:O:104:LEU:N	2.47	0.47
1:P:58:ALA:HA	1:P:65:LEU:CD2	2.43	0.47
1:P:143:TYR:CZ	1:P:345:ILE:CG2	2.98	0.47
1:R:34:ILE:CG2	1:R:67:LEU:HD22	2.28	0.47
1:U:236:LEU:HD22	1:U:251:GLY:C	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:335:ARG:O	1:V:338:SER:HB3	2.14	0.47
1:W:34:ILE:HG22	1:W:54:VAL:HG21	1.96	0.47
1:W:180:LEU:HD12	1:W:181:ALA:O	2.13	0.47
1:A:236:LEU:HD11	1:A:237:GLU:HG2	1.96	0.47
1:B:34:ILE:HG23	1:B:68:LYS:H	1.79	0.47
1:C:361:GLU:HB3	1:C:369:ILE:CD1	2.14	0.47
1:E:8:LEU:O	1:E:104:LEU:N	2.47	0.47
1:F:288:ASP:OD1	1:H:208:ILE:HD12	2.15	0.47
1:G:34:ILE:HD13	1:G:67:LEU:CD1	2.41	0.47
1:I:34:ILE:HG22	1:I:54:VAL:HG21	1.95	0.47
1:J:34:ILE:HG22	1:J:54:VAL:HG21	1.96	0.47
1:K:288:ASP:OD1	1:M:208:ILE:HD12	2.15	0.47
1:L:143:TYR:CZ	1:L:345:ILE:CG2	2.98	0.47
1:M:288:ASP:OD2	1:O:204:ALA:HB1	2.14	0.47
1:N:299:MET:HE1	1:N:304:THR:HB	1.97	0.47
1:P:236:LEU:HD22	1:P:251:GLY:C	2.34	0.47
1:R:58:ALA:O	1:R:59:GLN:C	2.53	0.47
1:T:2:GLU:HA	1:T:2:GLU:OE2	2.10	0.47
1:T:288:ASP:OD2	1:V:204:ALA:HB1	2.14	0.47
1:W:143:TYR:CZ	1:W:345:ILE:CG2	2.98	0.47
1:C:34:ILE:HG22	1:C:35:VAL:H	1.78	0.47
1:C:58:ALA:O	1:C:59:GLN:C	2.53	0.47
1:D:335:ARG:O	1:D:338:SER:HB3	2.13	0.47
1:E:335:ARG:HA	1:E:335:ARG:HD3	1.39	0.47
1:H:143:TYR:CZ	1:H:345:ILE:CG2	2.98	0.47
1:H:335:ARG:O	1:H:338:SER:HB3	2.14	0.47
1:J:34:ILE:HG22	1:J:35:VAL:H	1.78	0.47
1:K:34:ILE:HG23	1:K:68:LYS:H	1.79	0.47
1:K:335:ARG:O	1:K:338:SER:HB3	2.14	0.47
1:L:288:ASP:OD1	1:N:208:ILE:HD12	2.15	0.47
1:M:58:ALA:O	1:M:59:GLN:C	2.53	0.47
1:N:58:ALA:O	1:N:59:GLN:C	2.53	0.47
1:N:134:VAL:O	1:N:375:PHE:OXT	2.33	0.47
1:O:335:ARG:HA	1:O:335:ARG:HD3	1.39	0.47
1:Q:58:ALA:O	1:Q:59:GLN:C	2.53	0.47
1:R:34:ILE:HG23	1:R:68:LYS:H	1.79	0.47
1:R:143:TYR:CZ	1:R:345:ILE:CG2	2.98	0.47
1:S:134:VAL:O	1:S:375:PHE:OXT	2.33	0.47
1:T:169:TYR:CD1	1:V:42:GLY:HA3	2.50	0.47
1:U:143:TYR:CZ	1:U:345:ILE:CG2	2.98	0.47
1:U:298:VAL:HG12	1:U:335:ARG:NH1	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:134:VAL:O	1:W:375:PHE:OXT	2.33	0.47
1:A:2:GLU:OE2	1:A:2:GLU:HA	2.10	0.47
1:B:236:LEU:HD22	1:B:251:GLY:C	2.34	0.47
1:B:335:ARG:O	1:B:338:SER:HB3	2.14	0.47
1:C:8:LEU:HB2	1:C:103:THR:HA	1.95	0.47
1:C:173:HIS:NE2	1:D:267:ILE:C	2.67	0.47
1:C:236:LEU:HD22	1:C:251:GLY:C	2.34	0.47
1:D:369:ILE:HG22	1:D:370:VAL:N	2.29	0.47
1:E:169:TYR:CD1	1:G:42:GLY:HA3	2.50	0.47
1:F:134:VAL:O	1:F:375:PHE:OXT	2.33	0.47
1:G:58:ALA:O	1:G:59:GLN:C	2.53	0.47
1:H:14:SER:HB2	1:H:183:ARG:HH22	1.80	0.47
1:H:34:ILE:HG22	1:H:54:VAL:HG21	1.95	0.47
1:H:134:VAL:O	1:H:375:PHE:OXT	2.33	0.47
1:I:298:VAL:HG12	1:I:335:ARG:NH1	2.28	0.47
1:J:134:VAL:O	1:J:375:PHE:OXT	2.33	0.47
1:J:143:TYR:CZ	1:J:345:ILE:CG2	2.98	0.47
1:K:58:ALA:O	1:K:59:GLN:C	2.53	0.47
1:K:61:LYS:HG2	1:K:64:ILE:CG2	2.45	0.47
1:L:58:ALA:HA	1:L:65:LEU:CD2	2.43	0.47
1:L:134:VAL:O	1:L:375:PHE:OXT	2.33	0.47
1:M:8:LEU:O	1:M:104:LEU:N	2.47	0.47
1:M:288:ASP:OD1	1:O:208:ILE:HD12	2.15	0.47
1:N:369:ILE:HG22	1:N:370:VAL:N	2.29	0.47
1:P:34:ILE:HG22	1:P:54:VAL:HG21	1.96	0.47
1:Q:34:ILE:HG22	1:Q:54:VAL:HG21	1.95	0.47
1:Q:134:VAL:O	1:Q:375:PHE:OXT	2.33	0.47
1:Q:288:ASP:OD1	1:S:208:ILE:HD12	2.15	0.47
1:Q:369:ILE:HG22	1:Q:370:VAL:N	2.29	0.47
1:R:37:ARG:O	1:R:66:THR:CG2	2.63	0.47
1:S:369:ILE:HG22	1:S:370:VAL:N	2.29	0.47
1:T:335:ARG:O	1:T:338:SER:HB3	2.13	0.47
1:U:134:VAL:O	1:U:375:PHE:OXT	2.33	0.47
1:V:44:MET:CG	1:V:45:VAL:N	2.76	0.47
1:V:58:ALA:O	1:V:59:GLN:C	2.53	0.47
1:A:8:LEU:HB2	1:A:103:THR:HA	1.95	0.47
1:A:14:SER:HB2	1:A:183:ARG:HH22	1.80	0.47
1:A:134:VAL:O	1:A:375:PHE:OXT	2.33	0.47
1:B:288:ASP:OD1	1:D:208:ILE:HD12	2.15	0.47
1:C:169:TYR:CD1	1:E:42:GLY:HA3	2.50	0.47
1:C:288:ASP:OD1	1:E:208:ILE:HD12	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:299:MET:HE1	1:C:304:THR:HB	1.97	0.47
1:C:369:ILE:HG22	1:C:370:VAL:N	2.29	0.47
1:D:14:SER:HB2	1:D:183:ARG:HH22	1.80	0.47
1:D:34:ILE:HG22	1:D:54:VAL:HG21	1.95	0.47
1:D:61:LYS:HG2	1:D:64:ILE:CG2	2.45	0.47
1:D:134:VAL:O	1:D:375:PHE:OXT	2.33	0.47
1:E:142:LEU:HD21	1:E:165:ILE:CD1	2.39	0.47
1:E:143:TYR:CZ	1:E:345:ILE:CG2	2.98	0.47
1:E:288:ASP:OD1	1:G:208:ILE:HD12	2.15	0.47
1:E:369:ILE:HG22	1:E:370:VAL:N	2.29	0.47
1:E:369:ILE:HG23	1:E:370:VAL:N	2.30	0.47
1:F:14:SER:HB2	1:F:183:ARG:HH22	1.80	0.47
1:F:58:ALA:O	1:F:59:GLN:C	2.53	0.47
1:F:143:TYR:CZ	1:F:345:ILE:CG2	2.98	0.47
1:F:236:LEU:HD11	1:F:237:GLU:HG2	1.97	0.47
1:F:335:ARG:O	1:F:338:SER:HB3	2.14	0.47
1:G:37:ARG:O	1:G:66:THR:CG2	2.63	0.47
1:G:169:TYR:CD1	1:I:42:GLY:HA3	2.50	0.47
1:G:290:ARG:HB2	1:I:244:ASP:HA	1.97	0.47
1:G:298:VAL:HG12	1:G:335:ARG:NH1	2.28	0.47
1:H:335:ARG:HA	1:H:335:ARG:HD3	1.39	0.47
1:I:37:ARG:O	1:I:66:THR:CG2	2.63	0.47
1:I:58:ALA:O	1:I:59:GLN:C	2.53	0.47
1:I:169:TYR:CD1	1:K:42:GLY:HA3	2.50	0.47
1:J:14:SER:HB2	1:J:183:ARG:HH22	1.80	0.47
1:J:37:ARG:O	1:J:66:THR:CG2	2.63	0.47
1:J:223:PHE:CD1	1:J:259:GLU:CG	2.96	0.47
1:K:14:SER:HB2	1:K:183:ARG:HH22	1.80	0.47
1:K:169:TYR:CD1	1:M:42:GLY:HA3	2.50	0.47
1:K:236:LEU:HD22	1:K:251:GLY:C	2.34	0.47
1:L:173:HIS:NE2	1:M:267:ILE:C	2.67	0.47
1:L:223:PHE:CD1	1:L:259:GLU:CG	2.96	0.47
1:L:336:LYS:HE2	2:L:401:ADP:C5'	2.38	0.47
1:L:369:ILE:HG22	1:L:370:VAL:N	2.29	0.47
1:M:14:SER:HB2	1:M:183:ARG:HH22	1.80	0.47
1:M:61:LYS:HG2	1:M:64:ILE:CG2	2.45	0.47
1:N:34:ILE:HG22	1:N:54:VAL:HG21	1.96	0.47
1:N:44:MET:CG	1:N:45:VAL:N	2.75	0.47
1:N:58:ALA:HA	1:N:65:LEU:CD2	2.43	0.47
1:N:288:ASP:OD1	1:P:208:ILE:HD12	2.15	0.47
1:N:336:LYS:HE2	2:N:401:ADP:C5'	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:369:ILE:HG23	1:N:370:VAL:N	2.30	0.47
1:O:14:SER:HB2	1:O:183:ARG:HH22	1.80	0.47
1:O:369:ILE:HG22	1:O:370:VAL:N	2.29	0.47
1:P:37:ARG:O	1:P:66:THR:CG2	2.63	0.47
1:P:134:VAL:O	1:P:375:PHE:OXT	2.33	0.47
1:P:180:LEU:O	1:P:180:LEU:HG	2.11	0.47
1:Q:14:SER:HB2	1:Q:183:ARG:HH22	1.80	0.47
1:R:34:ILE:HD13	1:R:67:LEU:CD1	2.41	0.47
1:R:169:TYR:CD1	1:T:42:GLY:HA3	2.50	0.47
1:R:288:ASP:OD2	1:T:204:ALA:HB1	2.14	0.47
1:R:299:MET:HE1	1:R:304:THR:HB	1.97	0.47
1:R:335:ARG:O	1:R:338:SER:HB3	2.14	0.47
1:T:58:ALA:O	1:T:59:GLN:C	2.53	0.47
1:T:369:ILE:HG23	1:T:370:VAL:N	2.30	0.47
1:W:14:SER:HB2	1:W:183:ARG:HH22	1.80	0.47
1:A:37:ARG:O	1:A:66:THR:CG2	2.63	0.47
1:A:39:ARG:NE	1:A:66:THR:CA	2.69	0.47
1:B:34:ILE:HG22	1:B:54:VAL:HG21	1.95	0.47
1:B:134:VAL:O	1:B:375:PHE:OXT	2.33	0.47
1:C:8:LEU:O	1:C:104:LEU:N	2.47	0.47
1:C:14:SER:HB2	1:C:183:ARG:HH22	1.80	0.47
1:C:143:TYR:CZ	1:C:345:ILE:CG2	2.98	0.47
1:D:31:PHE:HA	1:D:32:PRO:HD3	1.66	0.47
1:D:227:MET:HA	1:D:227:MET:HE3	1.96	0.47
1:F:34:ILE:HG22	1:F:54:VAL:HG21	1.96	0.47
1:F:106:THR:HB	1:F:137:GLN:HG2	1.97	0.47
1:G:143:TYR:CZ	1:G:345:ILE:CG2	2.98	0.47
1:H:223:PHE:CD1	1:H:259:GLU:CG	2.96	0.47
1:H:288:ASP:OD1	1:J:208:ILE:HD12	2.15	0.47
1:I:61:LYS:HG2	1:I:64:ILE:CG2	2.45	0.47
1:J:58:ALA:O	1:J:59:GLN:C	2.52	0.47
1:O:134:VAL:O	1:O:375:PHE:OXT	2.33	0.47
1:R:290:ARG:HB2	1:T:244:ASP:HA	1.97	0.47
1:S:34:ILE:HG22	1:S:54:VAL:HG21	1.96	0.47
1:T:236:LEU:HD22	1:T:251:GLY:C	2.34	0.47
1:U:34:ILE:HG22	1:U:54:VAL:HG21	1.95	0.47
1:U:369:ILE:HG22	1:U:370:VAL:N	2.29	0.47
1:V:14:SER:HB2	1:V:183:ARG:HH22	1.80	0.47
1:A:336:LYS:HE2	2:A:401:ADP:C5'	2.38	0.47
1:B:106:THR:HB	1:B:137:GLN:HG2	1.97	0.47
1:B:288:ASP:OD2	1:D:204:ALA:HB1	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:134:VAL:O	1:C:375:PHE:OXT	2.33	0.47
1:C:369:ILE:HG23	1:C:370:VAL:N	2.30	0.47
1:D:8:LEU:O	1:D:104:LEU:N	2.47	0.47
1:D:106:THR:HB	1:D:137:GLN:HG2	1.97	0.47
1:F:147:ARG:HH21	1:F:147:ARG:HG3	1.80	0.47
1:G:288:ASP:OD2	1:I:204:ALA:HB1	2.14	0.47
1:I:173:HIS:HE1	1:J:268:GLY:CA	2.28	0.47
1:I:335:ARG:O	1:I:338:SER:HB3	2.14	0.47
1:J:142:LEU:HD21	1:J:165:ILE:CD1	2.38	0.47
1:K:288:ASP:OD2	1:M:204:ALA:HB1	2.14	0.47
1:K:369:ILE:HG22	1:K:370:VAL:N	2.29	0.47
1:N:288:ASP:OD2	1:P:204:ALA:HB1	2.14	0.47
1:O:34:ILE:HG22	1:O:54:VAL:HG21	1.96	0.47
1:O:61:LYS:HG2	1:O:64:ILE:CG2	2.45	0.47
1:O:300:SER:HA	1:O:335:ARG:HG2	1.89	0.47
1:P:2:GLU:OE2	1:P:2:GLU:HA	2.11	0.47
1:P:169:TYR:CD1	1:R:42:GLY:HA3	2.50	0.47
1:P:288:ASP:OD1	1:R:208:ILE:HD12	2.15	0.47
1:R:134:VAL:O	1:R:375:PHE:OXT	2.33	0.47
1:R:236:LEU:HD22	1:R:251:GLY:C	2.34	0.47
1:R:288:ASP:OD1	1:T:208:ILE:HD12	2.15	0.47
1:S:288:ASP:OD1	1:U:208:ILE:HD12	2.15	0.47
1:T:37:ARG:O	1:T:66:THR:CG2	2.63	0.47
1:W:236:LEU:HD22	1:W:251:GLY:C	2.34	0.47
1:A:61:LYS:HG2	1:A:64:ILE:CG2	2.45	0.47
1:A:169:TYR:CD1	1:C:42:GLY:HA3	2.50	0.47
1:B:8:LEU:O	1:B:104:LEU:N	2.47	0.47
1:C:34:ILE:HD13	1:C:67:LEU:CD1	2.41	0.47
1:C:336:LYS:HE2	2:C:401:ADP:C5'	2.38	0.47
1:D:236:LEU:HD22	1:D:251:GLY:C	2.34	0.47
1:D:288:ASP:OD1	1:F:208:ILE:HD12	2.15	0.47
1:G:8:LEU:O	1:G:104:LEU:N	2.47	0.47
1:H:34:ILE:HG23	1:H:68:LYS:H	1.79	0.47
1:H:106:THR:HB	1:H:137:GLN:HG2	1.97	0.47
1:H:369:ILE:HG22	1:H:370:VAL:N	2.29	0.47
1:I:288:ASP:OD2	1:K:204:ALA:HB1	2.14	0.47
1:M:34:ILE:HG22	1:M:54:VAL:HG21	1.96	0.47
1:M:169:TYR:CD1	1:O:42:GLY:HA3	2.50	0.47
1:O:58:ALA:CB	1:O:65:LEU:CD2	2.90	0.47
1:S:143:TYR:CZ	1:S:345:ILE:CG2	2.98	0.47
1:S:143:TYR:CE2	1:S:346:LEU:HD13	2.51	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:288:ASP:OD1	1:V:208:ILE:HD12	2.15	0.47
1:U:14:SER:HB2	1:U:183:ARG:HH22	1.80	0.47
1:U:37:ARG:O	1:U:66:THR:CG2	2.63	0.47
1:V:236:LEU:HD22	1:V:251:GLY:C	2.34	0.47
1:A:143:TYR:CZ	1:A:345:ILE:CG2	2.98	0.46
1:A:147:ARG:HH21	1:A:147:ARG:HG3	1.80	0.46
1:A:152:VAL:HG22	1:A:298:VAL:HB	1.98	0.46
1:A:288:ASP:OD1	1:C:208:ILE:HD12	2.15	0.46
1:A:290:ARG:HB2	1:C:244:ASP:HA	1.97	0.46
1:B:369:ILE:HG22	1:B:370:VAL:N	2.29	0.46
1:D:143:TYR:CZ	1:D:345:ILE:CG2	2.98	0.46
1:D:223:PHE:CD1	1:D:259:GLU:CG	2.96	0.46
1:E:134:VAL:O	1:E:375:PHE:OXT	2.33	0.46
1:F:61:LYS:HG2	1:F:64:ILE:CG2	2.45	0.46
1:F:152:VAL:HG22	1:F:298:VAL:HB	1.98	0.46
1:F:223:PHE:CD1	1:F:259:GLU:CG	2.96	0.46
1:F:227:MET:HE3	1:F:227:MET:HA	1.96	0.46
1:H:37:ARG:O	1:H:66:THR:CG2	2.63	0.46
1:J:34:ILE:HG23	1:J:68:LYS:H	1.79	0.46
1:K:143:TYR:CZ	1:K:345:ILE:CG2	2.98	0.46
1:L:14:SER:HB2	1:L:183:ARG:HH22	1.80	0.46
1:L:143:TYR:CE2	1:L:346:LEU:HD13	2.51	0.46
1:L:152:VAL:HG22	1:L:298:VAL:HB	1.98	0.46
1:M:134:VAL:O	1:M:375:PHE:OXT	2.33	0.46
1:M:143:TYR:CZ	1:M:345:ILE:CG2	2.98	0.46
1:N:34:ILE:HD13	1:N:67:LEU:CD1	2.41	0.46
1:N:39:ARG:NE	1:N:66:THR:CA	2.69	0.46
1:N:152:VAL:HG22	1:N:298:VAL:HB	1.98	0.46
1:O:143:TYR:CZ	1:O:345:ILE:CG2	2.98	0.46
1:P:8:LEU:O	1:P:104:LEU:N	2.47	0.46
1:P:290:ARG:HB2	1:R:244:ASP:HA	1.97	0.46
1:S:14:SER:HB2	1:S:183:ARG:HH22	1.80	0.46
1:T:369:ILE:HG22	1:T:370:VAL:N	2.29	0.46
1:U:58:ALA:O	1:U:59:GLN:C	2.53	0.46
1:U:288:ASP:OD2	1:W:204:ALA:HB1	2.14	0.46
1:W:106:THR:HB	1:W:137:GLN:HG2	1.97	0.46
1:W:369:ILE:HG22	1:W:370:VAL:N	2.29	0.46
1:A:236:LEU:HD22	1:A:251:GLY:C	2.34	0.46
1:B:14:SER:HB2	1:B:183:ARG:HH22	1.80	0.46
1:B:152:VAL:HG22	1:B:298:VAL:HB	1.98	0.46
1:B:180:LEU:O	1:B:180:LEU:HG	2.11	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:223:PHE:CD1	1:B:259:GLU:CG	2.96	0.46
1:D:147:ARG:HH21	1:D:147:ARG:HG3	1.80	0.46
1:E:143:TYR:CE2	1:E:346:LEU:HD13	2.51	0.46
1:E:290:ARG:HB2	1:G:244:ASP:HA	1.97	0.46
1:F:169:TYR:CD1	1:H:42:GLY:HA3	2.50	0.46
1:F:374:CYS:HB2	1:F:375:PHE:H	1.62	0.46
1:G:134:VAL:O	1:G:375:PHE:OXT	2.33	0.46
1:H:34:ILE:HG22	1:H:35:VAL:H	1.78	0.46
1:H:39:ARG:NE	1:H:66:THR:CA	2.69	0.46
1:I:14:SER:HB2	1:I:183:ARG:HH22	1.80	0.46
1:J:143:TYR:CE2	1:J:346:LEU:HD13	2.50	0.46
1:J:287:ILE:HD12	1:L:208:ILE:HD13	1.96	0.46
1:K:34:ILE:HG22	1:K:54:VAL:HG21	1.96	0.46
1:L:2:GLU:OE2	1:L:2:GLU:HA	2.10	0.46
1:L:37:ARG:O	1:L:66:THR:CG2	2.63	0.46
1:N:143:TYR:CE2	1:N:346:LEU:HD13	2.51	0.46
1:N:169:TYR:CD1	1:P:42:GLY:HA3	2.50	0.46
1:N:223:PHE:CD1	1:N:259:GLU:CG	2.96	0.46
1:N:300:SER:HA	1:N:335:ARG:HG2	1.89	0.46
1:O:152:VAL:HG22	1:O:298:VAL:HB	1.97	0.46
1:P:61:LYS:HG2	1:P:64:ILE:CG2	2.45	0.46
1:P:227:MET:HA	1:P:227:MET:HE3	1.97	0.46
1:Q:8:LEU:O	1:Q:104:LEU:N	2.47	0.46
1:T:14:SER:HB2	1:T:183:ARG:HH22	1.80	0.46
1:U:106:THR:HB	1:U:137:GLN:HG2	1.97	0.46
1:U:288:ASP:OD1	1:W:208:ILE:HD12	2.15	0.46
1:V:34:ILE:HG22	1:V:35:VAL:H	1.78	0.46
1:V:58:ALA:CB	1:V:65:LEU:CD2	2.90	0.46
1:W:61:LYS:HG2	1:W:64:ILE:CG2	2.45	0.46
1:C:37:ARG:O	1:C:66:THR:CG2	2.63	0.46
1:D:169:TYR:CD1	1:F:42:GLY:HA3	2.50	0.46
1:E:361:GLU:HB3	1:E:369:ILE:CD1	2.14	0.46
1:F:73:HIC:HA	1:F:183:ARG:NH1	2.18	0.46
1:F:369:ILE:HG22	1:F:370:VAL:N	2.29	0.46
1:G:288:ASP:OD1	1:I:208:ILE:HD12	2.15	0.46
1:H:58:ALA:CB	1:H:65:LEU:CD2	2.90	0.46
1:H:287:ILE:HB	1:J:244:ASP:HB3	1.97	0.46
1:I:288:ASP:OD1	1:K:208:ILE:HD12	2.15	0.46
1:J:180:LEU:O	1:J:180:LEU:HG	2.11	0.46
1:K:134:VAL:O	1:K:375:PHE:OXT	2.33	0.46
1:L:169:TYR:CD1	1:N:42:GLY:HA3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:152:VAL:HG22	1:M:298:VAL:HB	1.98	0.46
1:M:287:ILE:HD12	1:O:208:ILE:HD13	1.96	0.46
1:O:288:ASP:OD1	1:Q:208:ILE:HD12	2.15	0.46
1:O:369:ILE:HG23	1:O:370:VAL:N	2.30	0.46
1:P:336:LYS:HE2	2:P:401:ADP:C5'	2.38	0.46
1:P:369:ILE:HG23	1:P:370:VAL:N	2.30	0.46
1:Q:143:TYR:CZ	1:Q:345:ILE:CG2	2.98	0.46
1:Q:143:TYR:CE2	1:Q:346:LEU:HD13	2.51	0.46
1:Q:152:VAL:HG22	1:Q:298:VAL:HB	1.98	0.46
1:R:8:LEU:O	1:R:104:LEU:N	2.47	0.46
1:R:61:LYS:HG2	1:R:64:ILE:CG2	2.45	0.46
1:R:152:VAL:HG22	1:R:298:VAL:HB	1.98	0.46
1:S:152:VAL:HG22	1:S:298:VAL:HB	1.98	0.46
1:T:61:LYS:HG2	1:T:64:ILE:CG2	2.45	0.46
1:T:134:VAL:O	1:T:375:PHE:OXT	2.33	0.46
1:T:223:PHE:CD1	1:T:259:GLU:CG	2.96	0.46
1:U:73:HIC:HA	1:U:183:ARG:NH1	2.18	0.46
1:U:143:TYR:CE2	1:U:346:LEU:HD13	2.51	0.46
1:U:152:VAL:HG22	1:U:298:VAL:HB	1.98	0.46
1:V:143:TYR:CZ	1:V:345:ILE:CG2	2.98	0.46
1:D:37:ARG:O	1:D:66:THR:CG2	2.63	0.46
1:D:369:ILE:HG23	1:D:370:VAL:N	2.30	0.46
1:E:14:SER:HB2	1:E:183:ARG:HH22	1.80	0.46
1:E:152:VAL:HG22	1:E:298:VAL:HB	1.97	0.46
1:G:143:TYR:CE2	1:G:346:LEU:HD13	2.51	0.46
1:G:361:GLU:HB3	1:G:369:ILE:CD1	2.14	0.46
1:H:152:VAL:HG22	1:H:298:VAL:HB	1.98	0.46
1:I:58:ALA:CB	1:I:65:LEU:CD2	2.90	0.46
1:J:173:HIS:HE1	1:K:268:GLY:CA	2.28	0.46
1:J:288:ASP:OD1	1:L:208:ILE:HD12	2.15	0.46
1:L:290:ARG:HB2	1:N:244:ASP:HA	1.97	0.46
1:M:34:ILE:HG22	1:M:35:VAL:H	1.78	0.46
1:M:37:ARG:O	1:M:66:THR:CG2	2.63	0.46
1:M:290:ARG:HB2	1:O:244:ASP:HA	1.97	0.46
1:M:300:SER:HA	1:M:335:ARG:HG2	1.89	0.46
1:N:37:ARG:O	1:N:66:THR:CG2	2.63	0.46
1:N:61:LYS:HG2	1:N:64:ILE:CG2	2.45	0.46
1:P:143:TYR:CE2	1:P:346:LEU:HD13	2.51	0.46
1:P:152:VAL:HG22	1:P:298:VAL:HB	1.98	0.46
1:Q:169:TYR:CD1	1:S:42:GLY:HA3	2.50	0.46
1:R:173:HIS:HE1	1:S:268:GLY:CA	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:169:TYR:CD1	1:U:42:GLY:HA3	2.50	0.46
1:T:34:ILE:HD13	1:T:67:LEU:CD2	2.46	0.46
1:U:287:ILE:HD12	1:W:208:ILE:HD13	1.96	0.46
1:V:61:LYS:HG2	1:V:64:ILE:CG2	2.45	0.46
1:V:134:VAL:O	1:V:375:PHE:OXT	2.33	0.46
1:W:227:MET:HA	1:W:227:MET:HE3	1.96	0.46
1:W:369:ILE:HG23	1:W:370:VAL:N	2.30	0.46
1:A:227:MET:HA	1:A:227:MET:HE3	1.97	0.46
1:B:143:TYR:CE2	1:B:346:LEU:HD13	2.51	0.46
1:C:143:TYR:CE2	1:C:346:LEU:HD13	2.51	0.46
1:D:73:HIC:HA	1:D:183:ARG:NH1	2.18	0.46
1:D:152:VAL:HG22	1:D:298:VAL:HB	1.98	0.46
1:F:31:PHE:HA	1:F:32:PRO:HD3	1.66	0.46
1:F:58:ALA:CB	1:F:65:LEU:CD2	2.90	0.46
1:F:287:ILE:HB	1:H:244:ASP:HB3	1.97	0.46
1:G:152:VAL:HG22	1:G:298:VAL:HB	1.98	0.46
1:G:287:ILE:HB	1:I:244:ASP:HB3	1.97	0.46
1:G:299:MET:HE1	1:G:304:THR:HB	1.98	0.46
1:H:169:TYR:CD1	1:J:42:GLY:HA3	2.50	0.46
1:I:9:VAL:HG21	1:I:344:SER:HA	1.98	0.46
1:I:34:ILE:HG23	1:I:68:LYS:H	1.79	0.46
1:I:106:THR:HB	1:I:137:GLN:HG2	1.97	0.46
1:I:134:VAL:O	1:I:375:PHE:OXT	2.33	0.46
1:I:335:ARG:HA	1:I:335:ARG:HD3	1.39	0.46
1:J:106:THR:HB	1:J:137:GLN:HG2	1.97	0.46
1:J:169:TYR:CD1	1:L:42:GLY:HA3	2.50	0.46
1:J:287:ILE:HB	1:L:244:ASP:HB3	1.97	0.46
1:K:106:THR:HB	1:K:137:GLN:HG2	1.97	0.46
1:M:147:ARG:HH21	1:M:147:ARG:HG3	1.80	0.46
1:N:8:LEU:O	1:N:104:LEU:N	2.47	0.46
1:N:135:ALA:HB3	1:N:140:LEU:HD11	1.98	0.46
1:O:37:ARG:O	1:O:66:THR:CG2	2.63	0.46
1:O:147:ARG:HH21	1:O:147:ARG:HG3	1.80	0.46
1:R:14:SER:HB2	1:R:183:ARG:HH22	1.80	0.46
1:R:223:PHE:CD1	1:R:259:GLU:CG	2.96	0.46
1:S:34:ILE:CG2	1:S:67:LEU:HD22	2.28	0.46
1:S:37:ARG:O	1:S:66:THR:CG2	2.63	0.46
1:S:369:ILE:HG23	1:S:370:VAL:N	2.30	0.46
1:T:143:TYR:CZ	1:T:345:ILE:CG2	2.98	0.46
1:T:152:VAL:HG22	1:T:298:VAL:HB	1.98	0.46
1:V:223:PHE:CD1	1:V:259:GLU:CG	2.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:152:VAL:HG22	1:W:298:VAL:HB	1.98	0.46
1:C:58:ALA:CB	1:C:65:LEU:CD2	2.90	0.46
1:D:135:ALA:HB3	1:D:140:LEU:HD11	1.98	0.46
1:F:8:LEU:O	1:F:104:LEU:N	2.47	0.46
1:I:143:TYR:CZ	1:I:345:ILE:CG2	2.98	0.46
1:I:290:ARG:HB2	1:K:244:ASP:HA	1.97	0.46
1:J:152:VAL:HG22	1:J:298:VAL:HB	1.98	0.46
1:K:152:VAL:HG22	1:K:298:VAL:HB	1.98	0.46
1:M:106:THR:HB	1:M:137:GLN:HG2	1.97	0.46
1:M:144:ALA:HB2	1:M:342:GLY:N	2.31	0.46
1:N:173:HIS:HE1	1:O:268:GLY:CA	2.28	0.46
1:O:143:TYR:CE2	1:O:346:LEU:HD13	2.51	0.46
1:O:169:TYR:CD1	1:Q:42:GLY:HA3	2.50	0.46
1:P:44:MET:CG	1:P:45:VAL:H	2.18	0.46
1:Q:61:LYS:HG2	1:Q:64:ILE:CG2	2.45	0.46
1:S:106:THR:HB	1:S:137:GLN:HG2	1.97	0.46
1:S:135:ALA:HB3	1:S:140:LEU:HD11	1.98	0.46
1:T:9:VAL:HG21	1:T:344:SER:HA	1.98	0.46
1:W:73:HIC:HA	1:W:183:ARG:NH1	2.18	0.46
1:A:180:LEU:O	1:A:180:LEU:HG	2.11	0.46
1:A:369:ILE:HG23	1:A:370:VAL:N	2.30	0.46
1:B:37:ARG:O	1:B:66:THR:CG2	2.63	0.46
1:B:135:ALA:HB3	1:B:140:LEU:HD11	1.98	0.46
1:B:143:TYR:CZ	1:B:345:ILE:CG2	2.98	0.46
1:C:33:SER:O	1:C:69:TYR:CD1	2.69	0.46
1:C:152:VAL:HG22	1:C:298:VAL:HB	1.98	0.46
1:C:173:HIS:HE1	1:D:268:GLY:CA	2.28	0.46
1:D:236:LEU:CD1	1:D:237:GLU:CG	2.93	0.46
1:E:299:MET:HE1	1:E:304:THR:HB	1.98	0.46
1:G:9:VAL:HG21	1:G:344:SER:HA	1.98	0.46
1:G:34:ILE:HD13	1:G:67:LEU:CD2	2.46	0.46
1:G:34:ILE:CG2	1:G:67:LEU:HD22	2.27	0.46
1:H:61:LYS:HG2	1:H:64:ILE:CG2	2.45	0.46
1:H:361:GLU:HB3	1:H:369:ILE:CD1	2.14	0.46
1:I:143:TYR:CE2	1:I:346:LEU:HD13	2.50	0.46
1:J:369:ILE:HG23	1:J:370:VAL:N	2.30	0.46
1:K:144:ALA:HB2	1:K:342:GLY:N	2.31	0.46
1:K:290:ARG:HB2	1:M:244:ASP:HA	1.97	0.46
1:K:299:MET:HE1	1:K:304:THR:HB	1.98	0.46
1:K:369:ILE:HG23	1:K:370:VAL:N	2.30	0.46
1:L:135:ALA:HB3	1:L:140:LEU:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:299:MET:HE1	1:L:304:THR:HB	1.98	0.46
1:P:14:SER:HB2	1:P:183:ARG:HH22	1.80	0.46
1:P:135:ALA:HB3	1:P:140:LEU:HD11	1.98	0.46
1:P:144:ALA:HB2	1:P:342:GLY:N	2.31	0.46
1:Q:135:ALA:HB3	1:Q:140:LEU:HD11	1.98	0.46
1:R:9:VAL:HG21	1:R:344:SER:HA	1.98	0.46
1:R:144:ALA:HB2	1:R:342:GLY:N	2.31	0.46
1:T:290:ARG:HB2	1:V:244:ASP:HA	1.97	0.46
1:U:335:ARG:HA	1:U:335:ARG:HD3	1.39	0.46
1:A:34:ILE:HG22	1:A:35:VAL:H	1.78	0.46
1:A:135:ALA:HB3	1:A:140:LEU:HD11	1.98	0.46
1:C:9:VAL:HG21	1:C:344:SER:HA	1.98	0.46
1:C:61:LYS:HG2	1:C:64:ILE:CG2	2.45	0.46
1:D:143:TYR:CE2	1:D:346:LEU:HD13	2.51	0.46
1:D:287:ILE:HB	1:F:244:ASP:HB3	1.97	0.46
1:E:39:ARG:NE	1:E:66:THR:CA	2.69	0.46
1:E:336:LYS:HE2	2:E:401:ADP:C5'	2.38	0.46
1:E:349:LEU:HD23	1:E:349:LEU:HA	1.80	0.46
1:F:135:ALA:HB3	1:F:140:LEU:HD11	1.98	0.46
1:G:14:SER:HB2	1:G:183:ARG:HH22	1.80	0.46
1:G:33:SER:O	1:G:69:TYR:CD1	2.69	0.46
1:H:143:TYR:CE2	1:H:346:LEU:HD13	2.51	0.46
1:I:152:VAL:HG22	1:I:298:VAL:HB	1.98	0.46
1:I:287:ILE:HB	1:K:244:ASP:HB3	1.97	0.46
1:K:37:ARG:O	1:K:66:THR:CG2	2.63	0.46
1:K:135:ALA:HB3	1:K:140:LEU:HD11	1.98	0.46
1:K:287:ILE:HB	1:M:244:ASP:HB3	1.97	0.46
1:L:173:HIS:HE1	1:M:268:GLY:CA	2.28	0.46
1:N:33:SER:O	1:N:69:TYR:CD1	2.69	0.46
1:O:9:VAL:HG21	1:O:344:SER:HA	1.98	0.46
1:P:39:ARG:NE	1:P:66:THR:CA	2.69	0.46
1:P:223:PHE:CD1	1:P:259:GLU:CG	2.96	0.46
1:Q:180:LEU:O	1:Q:180:LEU:HG	2.11	0.46
1:Q:335:ARG:HA	1:Q:335:ARG:HD3	1.39	0.46
1:R:33:SER:O	1:R:69:TYR:CD1	2.69	0.46
1:S:73:HIC:HA	1:S:183:ARG:NH1	2.18	0.46
1:T:147:ARG:HH21	1:T:147:ARG:HG3	1.80	0.46
1:T:287:ILE:HD12	1:V:208:ILE:HD13	1.96	0.46
1:V:33:SER:O	1:V:69:TYR:CD1	2.69	0.46
1:W:33:SER:O	1:W:69:TYR:CD1	2.69	0.46
1:W:143:TYR:CE2	1:W:346:LEU:HD13	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:106:THR:HB	1:A:137:GLN:HG2	1.98	0.46
1:B:369:ILE:HG22	1:B:370:VAL:H	1.81	0.46
1:C:147:ARG:HH21	1:C:147:ARG:HG3	1.80	0.46
1:D:144:ALA:HB2	1:D:342:GLY:N	2.31	0.46
1:E:135:ALA:HB3	1:E:140:LEU:HD11	1.98	0.46
1:F:34:ILE:HG22	1:F:35:VAL:H	1.78	0.46
1:G:135:ALA:HB3	1:G:140:LEU:HD11	1.98	0.46
1:H:73:HIC:HA	1:H:183:ARG:NH1	2.18	0.46
1:H:369:ILE:HG23	1:H:370:VAL:N	2.30	0.46
1:J:135:ALA:HB3	1:J:140:LEU:HD11	1.98	0.46
1:K:34:ILE:HD13	1:K:67:LEU:CD2	2.46	0.46
1:K:227:MET:HA	1:K:227:MET:HE3	1.98	0.46
1:L:287:ILE:HB	1:N:244:ASP:HB3	1.97	0.46
1:N:144:ALA:HB2	1:N:342:GLY:N	2.31	0.46
1:O:7:ALA:HB1	1:O:347:ALA:HB1	1.98	0.46
1:Q:287:ILE:HD12	1:S:208:ILE:HD13	1.96	0.46
1:Q:361:GLU:HB3	1:Q:369:ILE:CD1	2.14	0.46
1:R:34:ILE:N	1:R:54:VAL:HG11	2.31	0.46
1:R:44:MET:CG	1:R:45:VAL:H	2.18	0.46
1:R:135:ALA:HB3	1:R:140:LEU:HD11	1.98	0.46
1:T:43:VAL:C	1:T:44:MET:HG2	2.37	0.46
1:T:135:ALA:HB3	1:T:140:LEU:HD11	1.98	0.46
1:U:61:LYS:HG2	1:U:64:ILE:CG2	2.45	0.46
1:U:135:ALA:HB3	1:U:140:LEU:HD11	1.98	0.46
1:U:369:ILE:HG22	1:U:370:VAL:H	1.81	0.46
1:V:37:ARG:O	1:V:66:THR:CG2	2.63	0.46
1:V:38:PRO:HD3	1:V:49:GLN:HE22	1.81	0.46
1:V:143:TYR:CE2	1:V:346:LEU:HD13	2.51	0.46
1:V:152:VAL:HG22	1:V:298:VAL:HB	1.97	0.46
1:V:369:ILE:HG23	1:V:370:VAL:N	2.30	0.46
1:W:37:ARG:O	1:W:66:THR:CG2	2.63	0.46
1:B:290:ARG:HB2	1:D:244:ASP:HA	1.97	0.46
1:C:106:THR:HB	1:C:137:GLN:HG2	1.97	0.46
1:C:135:ALA:HB3	1:C:140:LEU:HD11	1.98	0.46
1:C:290:ARG:HB2	1:E:244:ASP:HA	1.97	0.46
1:E:106:THR:HB	1:E:137:GLN:HG2	1.97	0.46
1:G:38:PRO:HD3	1:G:49:GLN:HE22	1.81	0.46
1:G:106:THR:HB	1:G:137:GLN:HG2	1.98	0.46
1:H:38:PRO:HD3	1:H:49:GLN:HE22	1.81	0.46
1:I:144:ALA:HB2	1:I:342:GLY:N	2.31	0.46
1:J:58:ALA:CB	1:J:65:LEU:CD2	2.90	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:61:LYS:HG2	1:J:64:ILE:CG2	2.45	0.46
1:K:33:SER:O	1:K:69:TYR:CD1	2.69	0.46
1:L:61:LYS:HG2	1:L:64:ILE:CG2	2.45	0.46
1:M:135:ALA:HB3	1:M:140:LEU:HD11	1.98	0.46
1:O:38:PRO:HD3	1:O:49:GLN:HE22	1.81	0.46
1:O:106:THR:HB	1:O:137:GLN:HG2	1.97	0.46
1:O:135:ALA:HB3	1:O:140:LEU:HD11	1.98	0.46
1:R:43:VAL:C	1:R:44:MET:HG2	2.37	0.46
1:S:369:ILE:HG22	1:S:370:VAL:H	1.81	0.46
1:T:33:SER:O	1:T:69:TYR:CD1	2.69	0.46
1:T:144:ALA:HB2	1:T:342:GLY:N	2.31	0.46
1:U:33:SER:O	1:U:69:TYR:CD1	2.69	0.46
1:U:43:VAL:C	1:U:44:MET:HG2	2.37	0.46
1:U:169:TYR:CD1	1:W:42:GLY:HA3	2.50	0.46
1:V:106:THR:HB	1:V:137:GLN:HG2	1.97	0.46
1:V:335:ARG:HA	1:V:335:ARG:HD3	1.39	0.46
1:A:8:LEU:O	1:A:104:LEU:N	2.47	0.45
1:A:38:PRO:HD3	1:A:49:GLN:HE22	1.81	0.45
1:B:144:ALA:HB2	1:B:342:GLY:N	2.31	0.45
1:B:169:TYR:CD1	1:D:42:GLY:HA3	2.50	0.45
1:D:349:LEU:HD23	1:D:349:LEU:HA	1.80	0.45
1:E:144:ALA:HB2	1:E:342:GLY:N	2.31	0.45
1:H:135:ALA:HB3	1:H:140:LEU:HD11	1.98	0.45
1:I:33:SER:O	1:I:69:TYR:CD1	2.69	0.45
1:J:38:PRO:HD3	1:J:49:GLN:HE22	1.81	0.45
1:K:300:SER:HA	1:K:335:ARG:HG2	1.89	0.45
1:M:7:ALA:HB1	1:M:347:ALA:HB1	1.98	0.45
1:M:9:VAL:HG21	1:M:344:SER:HA	1.98	0.45
1:M:33:SER:O	1:M:69:TYR:CD1	2.69	0.45
1:N:14:SER:HB2	1:N:183:ARG:HH22	1.80	0.45
1:N:44:MET:CG	1:N:45:VAL:H	2.18	0.45
1:O:144:ALA:HB2	1:O:342:GLY:N	2.31	0.45
1:P:34:ILE:HD13	1:P:67:LEU:CD2	2.46	0.45
1:Q:7:ALA:HB1	1:Q:347:ALA:HB1	1.98	0.45
1:S:7:ALA:HB1	1:S:347:ALA:HB1	1.98	0.45
1:S:287:ILE:HB	1:U:244:ASP:HB3	1.97	0.45
1:V:43:VAL:C	1:V:44:MET:HG2	2.37	0.45
1:V:144:ALA:HB2	1:V:342:GLY:N	2.31	0.45
1:W:7:ALA:HB1	1:W:347:ALA:HB1	1.98	0.45
1:W:34:ILE:N	1:W:54:VAL:HG11	2.31	0.45
1:W:38:PRO:HD3	1:W:49:GLN:HE22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:43:VAL:C	1:W:44:MET:HG2	2.37	0.45
1:W:135:ALA:HB3	1:W:140:LEU:HD11	1.98	0.45
1:W:299:MET:HE1	1:W:304:THR:HB	1.98	0.45
1:W:369:ILE:HG22	1:W:370:VAL:H	1.81	0.45
1:A:43:VAL:C	1:A:44:MET:HG2	2.37	0.45
1:A:143:TYR:CE2	1:A:346:LEU:HD13	2.51	0.45
1:A:287:ILE:HB	1:C:244:ASP:HB3	1.97	0.45
1:C:34:ILE:HD13	1:C:67:LEU:CD2	2.46	0.45
1:C:43:VAL:C	1:C:44:MET:HG2	2.37	0.45
1:E:133:TYR:CE2	1:E:375:PHE:HB2	2.51	0.45
1:F:143:TYR:CE2	1:F:346:LEU:HD13	2.51	0.45
1:F:144:ALA:HB2	1:F:342:GLY:N	2.31	0.45
1:G:144:ALA:HB2	1:G:342:GLY:N	2.31	0.45
1:G:369:ILE:HG23	1:G:370:VAL:N	2.30	0.45
1:I:135:ALA:HB3	1:I:140:LEU:HD11	1.98	0.45
1:I:369:ILE:HG22	1:I:370:VAL:H	1.81	0.45
1:J:8:LEU:O	1:J:104:LEU:N	2.47	0.45
1:J:33:SER:O	1:J:69:TYR:CD1	2.69	0.45
1:J:34:ILE:N	1:J:54:VAL:HG11	2.31	0.45
1:K:7:ALA:HB1	1:K:347:ALA:HB1	1.98	0.45
1:K:143:TYR:CE2	1:K:346:LEU:HD13	2.50	0.45
1:L:8:LEU:O	1:L:104:LEU:N	2.47	0.45
1:N:9:VAL:HG21	1:N:344:SER:HA	1.98	0.45
1:N:133:TYR:CE2	1:N:375:PHE:HB2	2.51	0.45
1:P:7:ALA:HB1	1:P:347:ALA:HB1	1.98	0.45
1:P:38:PRO:HD3	1:P:49:GLN:HE22	1.81	0.45
1:Q:33:SER:O	1:Q:69:TYR:CD1	2.69	0.45
1:Q:106:THR:HB	1:Q:137:GLN:HG2	1.97	0.45
1:R:7:ALA:HB1	1:R:347:ALA:HB1	1.98	0.45
1:R:143:TYR:CE2	1:R:346:LEU:HD13	2.51	0.45
1:R:287:ILE:HB	1:T:244:ASP:HB3	1.97	0.45
1:S:33:SER:O	1:S:69:TYR:CD1	2.69	0.45
1:T:143:TYR:CE2	1:T:346:LEU:HD13	2.51	0.45
1:T:180:LEU:CD1	1:T:181:ALA:N	2.78	0.45
1:T:287:ILE:HB	1:V:244:ASP:HB3	1.97	0.45
1:U:7:ALA:HB1	1:U:347:ALA:HB1	1.98	0.45
1:U:8:LEU:O	1:U:104:LEU:N	2.47	0.45
1:U:34:ILE:N	1:U:54:VAL:HG11	2.31	0.45
1:U:116:ARG:NH1	1:U:375:PHE:HA	2.32	0.45
1:U:180:LEU:O	1:U:180:LEU:HG	2.11	0.45
1:U:287:ILE:HB	1:W:244:ASP:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:147:ARG:HH21	1:V:147:ARG:HG3	1.80	0.45
1:W:144:ALA:HB2	1:W:342:GLY:N	2.31	0.45
1:A:7:ALA:HB1	1:A:347:ALA:HB1	1.98	0.45
1:A:9:VAL:HG21	1:A:344:SER:HA	1.98	0.45
1:B:287:ILE:HB	1:D:244:ASP:HB3	1.97	0.45
1:D:335:ARG:HA	1:D:335:ARG:HD3	1.39	0.45
1:D:369:ILE:HG22	1:D:370:VAL:H	1.81	0.45
1:E:173:HIS:HE1	1:F:268:GLY:CA	2.28	0.45
1:F:37:ARG:O	1:F:66:THR:CG2	2.63	0.45
1:F:180:LEU:O	1:F:180:LEU:HG	2.11	0.45
1:I:164:PRO:CG	1:I:174:ALA:CB	2.95	0.45
1:I:287:ILE:HG22	1:I:290:ARG:NH1	2.32	0.45
1:J:290:ARG:HB2	1:L:244:ASP:HA	1.97	0.45
1:K:173:HIS:HE1	1:L:268:GLY:CA	2.28	0.45
1:K:287:ILE:HG22	1:K:290:ARG:NH1	2.31	0.45
1:L:33:SER:O	1:L:69:TYR:CD1	2.69	0.45
1:L:58:ALA:CB	1:L:65:LEU:CD2	2.90	0.45
1:M:287:ILE:HB	1:O:244:ASP:HB3	1.97	0.45
1:N:7:ALA:HB1	1:N:347:ALA:HB1	1.98	0.45
1:N:34:ILE:N	1:N:54:VAL:HG11	2.31	0.45
1:N:290:ARG:HB2	1:P:244:ASP:HA	1.97	0.45
1:O:33:SER:O	1:O:69:TYR:CD1	2.69	0.45
1:O:299:MET:HE1	1:O:304:THR:HB	1.98	0.45
1:P:33:SER:O	1:P:69:TYR:CD1	2.69	0.45
1:P:43:VAL:C	1:P:44:MET:HG2	2.37	0.45
1:Q:37:ARG:O	1:Q:66:THR:CG2	2.63	0.45
1:Q:38:PRO:HD3	1:Q:49:GLN:HE22	1.81	0.45
1:Q:287:ILE:HB	1:S:244:ASP:HB3	1.97	0.45
1:R:180:LEU:CD1	1:R:181:ALA:N	2.78	0.45
1:R:287:ILE:HG22	1:R:290:ARG:NH1	2.32	0.45
1:R:336:LYS:HE2	2:R:401:ADP:C5'	2.38	0.45
1:S:8:LEU:O	1:S:104:LEU:N	2.47	0.45
1:S:290:ARG:HB2	1:U:244:ASP:HA	1.97	0.45
1:V:135:ALA:HB3	1:V:140:LEU:HD11	1.98	0.45
1:V:164:PRO:CG	1:V:174:ALA:CB	2.95	0.45
1:W:8:LEU:O	1:W:104:LEU:N	2.47	0.45
1:W:374:CYS:HB2	1:W:375:PHE:H	1.62	0.45
1:A:44:MET:CG	1:A:45:VAL:N	2.75	0.45
1:B:9:VAL:HG21	1:B:344:SER:HA	1.98	0.45
1:C:44:MET:CG	1:C:45:VAL:N	2.75	0.45
1:C:180:LEU:CD1	1:C:181:ALA:N	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:43:VAL:C	1:E:44:MET:HG2	2.37	0.45
1:E:180:LEU:CD1	1:E:181:ALA:N	2.78	0.45
1:E:287:ILE:HB	1:G:244:ASP:HB3	1.98	0.45
1:F:34:ILE:N	1:F:54:VAL:HG11	2.31	0.45
1:G:164:PRO:CG	1:G:174:ALA:CB	2.95	0.45
1:I:34:ILE:N	1:I:54:VAL:HG11	2.31	0.45
1:J:38:PRO:CG	1:J:49:GLN:NE2	2.79	0.45
1:J:133:TYR:HH	1:J:375:PHE:HB2	1.80	0.45
1:K:164:PRO:CG	1:K:174:ALA:CB	2.95	0.45
1:L:106:THR:HB	1:L:137:GLN:HG2	1.97	0.45
1:M:369:ILE:HG23	1:M:370:VAL:N	2.30	0.45
1:N:357:ILE:HD12	1:N:357:ILE:HA	1.79	0.45
1:Q:236:LEU:CD1	1:Q:237:GLU:CG	2.93	0.45
1:S:287:ILE:HD12	1:U:208:ILE:HD13	1.96	0.45
1:T:7:ALA:HB1	1:T:347:ALA:HB1	1.98	0.45
1:W:236:LEU:CD1	1:W:237:GLU:CG	2.93	0.45
1:W:336:LYS:HE2	2:W:401:ADP:C5'	2.38	0.45
1:B:38:PRO:HD3	1:B:49:GLN:HE22	1.81	0.45
1:C:116:ARG:NH1	1:C:375:PHE:HA	2.32	0.45
1:D:9:VAL:HG21	1:D:344:SER:HA	1.98	0.45
1:E:37:ARG:O	1:E:66:THR:CG2	2.63	0.45
1:E:44:MET:CG	1:E:45:VAL:N	2.76	0.45
1:E:116:ARG:NH1	1:E:375:PHE:HA	2.32	0.45
1:F:43:VAL:C	1:F:44:MET:HG2	2.37	0.45
1:F:290:ARG:HB2	1:H:244:ASP:HA	1.97	0.45
1:F:369:ILE:HG23	1:F:370:VAL:N	2.30	0.45
1:G:369:ILE:HG22	1:G:370:VAL:H	1.81	0.45
1:H:31:PHE:HA	1:H:32:PRO:HD3	1.66	0.45
1:I:38:PRO:HD3	1:I:49:GLN:HE22	1.81	0.45
1:J:43:VAL:C	1:J:44:MET:HG2	2.37	0.45
1:K:34:ILE:N	1:K:54:VAL:HG11	2.31	0.45
1:K:369:ILE:HG22	1:K:370:VAL:H	1.81	0.45
1:L:7:ALA:HB1	1:L:347:ALA:HB1	1.98	0.45
1:L:236:LEU:CD1	1:L:237:GLU:CG	2.93	0.45
1:L:369:ILE:HG22	1:L:370:VAL:H	1.82	0.45
1:M:164:PRO:CG	1:M:174:ALA:CB	2.95	0.45
1:N:369:ILE:HG22	1:N:370:VAL:H	1.82	0.45
1:O:34:ILE:HD13	1:O:67:LEU:CD2	2.46	0.45
1:O:287:ILE:HB	1:Q:244:ASP:HB3	1.97	0.45
1:P:34:ILE:N	1:P:54:VAL:HG11	2.31	0.45
1:Q:290:ARG:HB2	1:S:244:ASP:HA	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:116:ARG:NH1	1:S:375:PHE:HA	2.32	0.45
1:S:300:SER:HA	1:S:335:ARG:NE	2.32	0.45
1:T:38:PRO:HD3	1:T:49:GLN:HE22	1.81	0.45
1:T:335:ARG:HA	1:T:335:ARG:HD3	1.39	0.45
1:V:7:ALA:HB1	1:V:347:ALA:HB1	1.98	0.45
1:W:58:ALA:CB	1:W:65:LEU:CD2	2.90	0.45
1:B:73:HIC:HA	1:B:183:ARG:NH1	2.18	0.45
1:B:164:PRO:CG	1:B:174:ALA:CB	2.95	0.45
1:B:287:ILE:HG22	1:B:290:ARG:NH1	2.32	0.45
1:C:287:ILE:HG22	1:C:290:ARG:NH1	2.32	0.45
1:D:290:ARG:HB2	1:F:244:ASP:HA	1.97	0.45
1:E:34:ILE:N	1:E:54:VAL:HG11	2.31	0.45
1:G:61:LYS:HG2	1:G:64:ILE:CG2	2.45	0.45
1:G:287:ILE:HG22	1:G:290:ARG:NH1	2.32	0.45
1:H:33:SER:O	1:H:69:TYR:CD1	2.69	0.45
1:H:34:ILE:N	1:H:54:VAL:HG11	2.31	0.45
1:H:38:PRO:CG	1:H:49:GLN:NE2	2.79	0.45
1:H:43:VAL:C	1:H:44:MET:HG2	2.37	0.45
1:H:144:ALA:HB2	1:H:342:GLY:N	2.31	0.45
1:H:236:LEU:CD1	1:H:237:GLU:CG	2.93	0.45
1:H:287:ILE:HD12	1:J:208:ILE:HD13	1.96	0.45
1:I:287:ILE:HD12	1:K:208:ILE:HD13	1.96	0.45
1:I:362:TYR:CE1	1:I:367:PRO:CB	2.99	0.45
1:J:164:PRO:CG	1:J:174:ALA:CB	2.95	0.45
1:J:369:ILE:HG22	1:J:370:VAL:H	1.81	0.45
1:K:9:VAL:HG21	1:K:344:SER:HA	1.98	0.45
1:L:43:VAL:C	1:L:44:MET:HG2	2.37	0.45
1:L:116:ARG:NH1	1:L:375:PHE:HA	2.32	0.45
1:L:144:ALA:HB2	1:L:342:GLY:N	2.31	0.45
1:L:164:PRO:CG	1:L:174:ALA:CB	2.95	0.45
1:M:38:PRO:HD3	1:M:49:GLN:HE22	1.81	0.45
1:N:287:ILE:HB	1:P:244:ASP:HB3	1.97	0.45
1:P:287:ILE:HG22	1:P:290:ARG:NH1	2.32	0.45
1:Q:300:SER:HA	1:Q:335:ARG:NE	2.32	0.45
1:Q:369:ILE:HG22	1:Q:370:VAL:H	1.81	0.45
1:S:144:ALA:HB2	1:S:342:GLY:N	2.31	0.45
1:T:39:ARG:NE	1:T:66:THR:CA	2.69	0.45
1:T:106:THR:HB	1:T:137:GLN:HG2	1.97	0.45
1:T:287:ILE:HG22	1:T:290:ARG:NH1	2.32	0.45
1:U:300:SER:HA	1:U:335:ARG:NE	2.32	0.45
1:V:180:LEU:O	1:V:180:LEU:HG	2.11	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:34:ILE:N	1:A:54:VAL:HG11	2.31	0.45
1:A:164:PRO:CG	1:A:174:ALA:CB	2.95	0.45
1:B:227:MET:HA	1:B:227:MET:HE3	1.99	0.45
1:C:287:ILE:HB	1:E:244:ASP:HB3	1.97	0.45
1:D:164:PRO:CG	1:D:174:ALA:CB	2.95	0.45
1:D:287:ILE:HD12	1:F:208:ILE:HD13	1.96	0.45
1:E:38:PRO:HD3	1:E:49:GLN:HE22	1.81	0.45
1:E:147:ARG:HH21	1:E:147:ARG:HG3	1.80	0.45
1:G:233:SER:HB3	1:G:236:LEU:HG	1.99	0.45
1:G:335:ARG:HA	1:G:335:ARG:HD3	1.39	0.45
1:H:167:GLU:OE1	1:J:61:LYS:CD	2.65	0.45
1:I:233:SER:HB3	1:I:236:LEU:HG	1.99	0.45
1:J:116:ARG:NH1	1:J:375:PHE:HA	2.32	0.45
1:K:38:PRO:CG	1:K:49:GLN:NE2	2.79	0.45
1:K:180:LEU:O	1:K:180:LEU:HG	2.11	0.45
1:N:38:PRO:HD3	1:N:49:GLN:HE22	1.81	0.45
1:N:164:PRO:CG	1:N:174:ALA:CB	2.95	0.45
1:N:362:TYR:CE1	1:N:367:PRO:CB	2.99	0.45
1:P:287:ILE:HB	1:R:244:ASP:HB3	1.97	0.45
1:Q:144:ALA:HB2	1:Q:342:GLY:N	2.31	0.45
1:R:324:THR:HG23	1:T:241:GLU:OE2	2.17	0.45
1:S:34:ILE:N	1:S:54:VAL:HG11	2.31	0.45
1:S:43:VAL:C	1:S:44:MET:HG2	2.37	0.45
1:T:58:ALA:CB	1:T:65:LEU:CD2	2.90	0.45
1:T:164:PRO:CG	1:T:174:ALA:CB	2.95	0.45
1:T:167:GLU:OE1	1:V:61:LYS:CD	2.65	0.45
1:T:324:THR:HG23	1:V:241:GLU:OE2	2.16	0.45
1:U:7:ALA:HB3	1:U:347:ALA:HB1	1.99	0.45
1:U:290:ARG:HB2	1:W:244:ASP:HA	1.97	0.45
1:V:34:ILE:N	1:V:54:VAL:HG11	2.31	0.45
1:V:116:ARG:NH1	1:V:375:PHE:HA	2.32	0.45
1:V:300:SER:HA	1:V:335:ARG:NE	2.32	0.45
1:W:164:PRO:CG	1:W:174:ALA:CB	2.95	0.45
1:W:287:ILE:HG22	1:W:290:ARG:NH1	2.32	0.45
1:A:31:PHE:HA	1:A:32:PRO:HD3	1.66	0.45
1:A:33:SER:O	1:A:69:TYR:CD1	2.69	0.45
1:A:144:ALA:HB2	1:A:342:GLY:N	2.31	0.45
1:A:167:GLU:OE1	1:C:61:LYS:CD	2.65	0.45
1:B:34:ILE:HD13	1:B:67:LEU:CD2	2.46	0.45
1:C:7:ALA:HB1	1:C:347:ALA:HB1	1.98	0.45
1:D:34:ILE:HG22	1:D:35:VAL:H	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:35:VAL:H	1:D:68:LYS:H	1.65	0.45
1:E:61:LYS:HG2	1:E:64:ILE:CG2	2.45	0.45
1:E:164:PRO:CG	1:E:174:ALA:CB	2.95	0.45
1:E:324:THR:HG23	1:G:241:GLU:OE2	2.16	0.45
1:G:43:VAL:C	1:G:44:MET:HG2	2.37	0.45
1:G:44:MET:CG	1:G:45:VAL:N	2.75	0.45
1:G:362:TYR:CE1	1:G:367:PRO:CB	2.99	0.45
1:H:8:LEU:O	1:H:104:LEU:N	2.47	0.45
1:H:290:ARG:HB2	1:J:244:ASP:HA	1.97	0.45
1:N:116:ARG:NH1	1:N:375:PHE:HA	2.32	0.45
1:O:164:PRO:CG	1:O:174:ALA:CB	2.95	0.45
1:P:133:TYR:CE2	1:P:375:PHE:HB2	2.51	0.45
1:P:173:HIS:HE1	1:Q:268:GLY:CA	2.28	0.45
1:S:7:ALA:HB3	1:S:347:ALA:HB1	1.99	0.45
1:S:9:VAL:HG21	1:S:344:SER:HA	1.98	0.45
1:S:133:TYR:CE2	1:S:375:PHE:HB2	2.51	0.45
1:S:299:MET:HE1	1:S:304:THR:HB	1.98	0.45
1:T:173:HIS:HE1	1:U:268:GLY:CA	2.28	0.45
1:U:144:ALA:HB2	1:U:342:GLY:N	2.31	0.45
1:U:324:THR:HG23	1:W:241:GLU:OE2	2.16	0.45
1:W:116:ARG:NH1	1:W:375:PHE:HA	2.32	0.45
1:A:116:ARG:NH1	1:A:375:PHE:HA	2.32	0.45
1:A:173:HIS:HE1	1:B:268:GLY:CA	2.28	0.45
1:A:287:ILE:HG22	1:A:290:ARG:NH1	2.32	0.45
1:B:7:ALA:HB3	1:B:347:ALA:HB1	1.99	0.45
1:C:44:MET:CG	1:C:45:VAL:H	2.18	0.45
1:D:33:SER:O	1:D:69:TYR:CD1	2.69	0.45
1:D:43:VAL:C	1:D:44:MET:HG2	2.37	0.45
1:E:33:SER:O	1:E:69:TYR:CD1	2.69	0.45
1:E:227:MET:HA	1:E:227:MET:HE3	1.99	0.45
1:E:233:SER:HB3	1:E:236:LEU:HG	1.99	0.45
1:E:287:ILE:HG22	1:E:290:ARG:NH1	2.32	0.45
1:F:38:PRO:CG	1:F:49:GLN:NE2	2.79	0.45
1:F:369:ILE:HG22	1:F:370:VAL:H	1.81	0.45
1:G:34:ILE:N	1:G:54:VAL:HG11	2.31	0.45
1:G:116:ARG:NH1	1:G:375:PHE:HA	2.32	0.45
1:G:133:TYR:CE2	1:G:375:PHE:HB2	2.51	0.45
1:H:6:THR:O	1:H:102:PRO:HD2	2.17	0.45
1:H:9:VAL:HG21	1:H:344:SER:HA	1.98	0.45
1:I:7:ALA:HB1	1:I:347:ALA:HB1	1.98	0.45
1:I:180:LEU:CD1	1:I:181:ALA:N	2.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:167:GLU:OE1	1:L:61:LYS:CD	2.65	0.45
1:K:324:THR:HG23	1:M:241:GLU:OE2	2.16	0.45
1:N:43:VAL:C	1:N:44:MET:HG2	2.37	0.45
1:O:290:ARG:HB2	1:Q:244:ASP:HA	1.97	0.45
1:O:300:SER:HA	1:O:335:ARG:NE	2.32	0.45
1:P:167:GLU:OE1	1:R:61:LYS:CD	2.65	0.45
1:P:369:ILE:HG22	1:P:370:VAL:H	1.81	0.45
1:Q:7:ALA:HB3	1:Q:347:ALA:HB1	1.99	0.45
1:Q:116:ARG:NH1	1:Q:375:PHE:HA	2.32	0.45
1:Q:133:TYR:CE2	1:Q:375:PHE:HB2	2.51	0.45
1:Q:287:ILE:HG22	1:Q:290:ARG:NH1	2.31	0.45
1:R:287:ILE:HD12	1:T:208:ILE:HD13	1.96	0.45
1:S:34:ILE:HD13	1:S:67:LEU:CD2	2.46	0.45
1:S:61:LYS:HG2	1:S:64:ILE:CG2	2.45	0.45
1:S:287:ILE:HG22	1:S:290:ARG:NH1	2.32	0.45
1:T:34:ILE:N	1:T:54:VAL:HG11	2.31	0.45
1:T:116:ARG:NH1	1:T:375:PHE:HA	2.32	0.45
1:U:287:ILE:HG22	1:U:290:ARG:NH1	2.32	0.45
1:V:7:ALA:HB3	1:V:347:ALA:HB1	1.99	0.45
1:V:9:VAL:HG21	1:V:344:SER:HA	1.98	0.45
1:W:7:ALA:HB3	1:W:347:ALA:HB1	1.99	0.45
1:B:7:ALA:HB1	1:B:347:ALA:HB1	1.98	0.45
1:B:38:PRO:CG	1:B:49:GLN:NE2	2.79	0.45
1:C:34:ILE:N	1:C:54:VAL:HG11	2.31	0.45
1:C:144:ALA:HB2	1:C:342:GLY:N	2.31	0.45
1:C:300:SER:HA	1:C:335:ARG:NE	2.32	0.45
1:D:38:PRO:CG	1:D:49:GLN:NE2	2.79	0.45
1:D:287:ILE:HG22	1:D:290:ARG:NH1	2.32	0.45
1:E:300:SER:HA	1:E:335:ARG:NE	2.32	0.45
1:E:369:ILE:HG22	1:E:370:VAL:H	1.82	0.45
1:F:6:THR:O	1:F:102:PRO:HD2	2.17	0.45
1:F:33:SER:O	1:F:69:TYR:CD1	2.69	0.45
1:F:38:PRO:HD3	1:F:49:GLN:HE22	1.81	0.45
1:F:164:PRO:CG	1:F:174:ALA:CB	2.95	0.45
1:J:7:ALA:HB1	1:J:347:ALA:HB1	1.98	0.45
1:J:110:LEU:CD1	1:J:177:ARG:NH1	2.80	0.45
1:J:144:ALA:HB2	1:J:342:GLY:N	2.31	0.45
1:J:300:SER:HA	1:J:335:ARG:NE	2.32	0.45
1:K:31:PHE:HA	1:K:32:PRO:HD3	1.65	0.45
1:K:287:ILE:HD12	1:M:208:ILE:HD13	1.96	0.45
1:L:34:ILE:N	1:L:54:VAL:HG11	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:300:SER:HA	1:L:335:ARG:NE	2.32	0.45
1:L:374:CYS:HB2	1:L:375:PHE:H	1.62	0.45
1:M:35:VAL:H	1:M:68:LYS:H	1.65	0.45
1:M:300:SER:HA	1:M:335:ARG:NE	2.32	0.45
1:N:106:THR:HB	1:N:137:GLN:HG2	1.97	0.45
1:N:233:SER:HB3	1:N:236:LEU:HG	1.99	0.45
1:N:287:ILE:HG22	1:N:290:ARG:NH1	2.32	0.45
1:N:300:SER:HA	1:N:335:ARG:NE	2.32	0.45
1:O:7:ALA:HB3	1:O:347:ALA:HB1	1.99	0.45
1:O:44:MET:CG	1:O:45:VAL:H	2.18	0.45
1:O:167:GLU:OE1	1:Q:61:LYS:CD	2.65	0.45
1:Q:34:ILE:N	1:Q:54:VAL:HG11	2.31	0.45
1:Q:167:GLU:OE1	1:S:61:LYS:CD	2.65	0.45
1:Q:369:ILE:HG23	1:Q:370:VAL:N	2.30	0.45
1:R:167:GLU:OE1	1:T:61:LYS:CD	2.65	0.45
1:S:324:THR:HG23	1:U:241:GLU:OE2	2.16	0.45
1:U:31:PHE:HA	1:U:32:PRO:HD3	1.66	0.45
1:U:133:TYR:CE2	1:U:375:PHE:HB2	2.51	0.45
1:U:369:ILE:HG23	1:U:370:VAL:N	2.30	0.45
1:V:287:ILE:HG22	1:V:290:ARG:NH1	2.32	0.45
1:B:43:VAL:C	1:B:44:MET:HG2	2.37	0.44
1:B:116:ARG:NH1	1:B:375:PHE:HA	2.32	0.44
1:B:300:SER:HA	1:B:335:ARG:NE	2.32	0.44
1:B:369:ILE:HG23	1:B:370:VAL:N	2.30	0.44
1:C:164:PRO:CG	1:C:174:ALA:CB	2.95	0.44
1:E:9:VAL:HG21	1:E:344:SER:HA	1.98	0.44
1:F:34:ILE:HD13	1:F:67:LEU:CD2	2.46	0.44
1:F:35:VAL:H	1:F:68:LYS:H	1.65	0.44
1:F:167:GLU:OE1	1:H:61:LYS:CD	2.65	0.44
1:F:287:ILE:HG22	1:F:290:ARG:NH1	2.32	0.44
1:H:164:PRO:CG	1:H:174:ALA:CB	2.95	0.44
1:H:300:SER:HA	1:H:335:ARG:NE	2.32	0.44
1:I:167:GLU:OE1	1:K:61:LYS:CD	2.65	0.44
1:I:300:SER:HA	1:I:335:ARG:HG2	1.89	0.44
1:K:167:GLU:OE1	1:M:61:LYS:CD	2.65	0.44
1:K:233:SER:HB3	1:K:236:LEU:HG	1.99	0.44
1:L:9:VAL:HG21	1:L:344:SER:HA	1.98	0.44
1:L:180:LEU:O	1:L:180:LEU:HG	2.11	0.44
1:M:34:ILE:N	1:M:54:VAL:HG11	2.31	0.44
1:M:143:TYR:CE2	1:M:346:LEU:HD13	2.51	0.44
1:M:167:GLU:OE1	1:O:61:LYS:CD	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:287:ILE:HG22	1:M:290:ARG:NH1	2.31	0.44
1:M:369:ILE:HG22	1:M:370:VAL:H	1.81	0.44
1:N:167:GLU:OE1	1:P:61:LYS:CD	2.65	0.44
1:O:34:ILE:N	1:O:54:VAL:HG11	2.31	0.44
1:O:35:VAL:H	1:O:68:LYS:H	1.65	0.44
1:P:164:PRO:CG	1:P:174:ALA:CB	2.95	0.44
1:P:233:SER:HB3	1:P:236:LEU:HG	1.99	0.44
1:Q:34:ILE:O	1:Q:54:VAL:HB	2.18	0.44
1:Q:43:VAL:C	1:Q:44:MET:HG2	2.37	0.44
1:Q:164:PRO:CG	1:Q:174:ALA:CB	2.95	0.44
1:R:58:ALA:CB	1:R:65:LEU:CD2	2.90	0.44
1:T:7:ALA:HB3	1:T:347:ALA:HB1	1.99	0.44
1:T:34:ILE:HG22	1:T:35:VAL:H	1.78	0.44
1:T:38:PRO:CG	1:T:49:GLN:NE2	2.79	0.44
1:U:38:PRO:HD3	1:U:49:GLN:HE22	1.81	0.44
1:U:164:PRO:CG	1:U:174:ALA:CB	2.95	0.44
1:U:167:GLU:OE1	1:W:61:LYS:CD	2.65	0.44
1:V:180:LEU:CD1	1:V:181:ALA:N	2.78	0.44
1:A:44:MET:CG	1:A:45:VAL:H	2.18	0.44
1:A:58:ALA:CB	1:A:65:LEU:CD2	2.90	0.44
1:A:110:LEU:CD1	1:A:177:ARG:NH1	2.80	0.44
1:C:38:PRO:HD3	1:C:49:GLN:HE22	1.82	0.44
1:C:167:GLU:OE1	1:E:61:LYS:CD	2.65	0.44
1:C:233:SER:HB3	1:C:236:LEU:HG	1.99	0.44
1:D:7:ALA:HB3	1:D:347:ALA:HB1	1.99	0.44
1:D:116:ARG:NH1	1:D:375:PHE:HA	2.32	0.44
1:H:287:ILE:HG22	1:H:290:ARG:NH1	2.32	0.44
1:J:6:THR:O	1:J:102:PRO:HD2	2.17	0.44
1:J:287:ILE:HG22	1:J:290:ARG:NH1	2.32	0.44
1:K:180:LEU:CD1	1:K:181:ALA:N	2.78	0.44
1:L:110:LEU:CD1	1:L:177:ARG:NH1	2.80	0.44
1:M:7:ALA:HB3	1:M:347:ALA:HB1	1.99	0.44
1:O:43:VAL:C	1:O:44:MET:HG2	2.37	0.44
1:O:133:TYR:CE2	1:O:375:PHE:HB2	2.51	0.44
1:Q:73:HIC:HA	1:Q:183:ARG:NH1	2.18	0.44
1:R:38:PRO:HD3	1:R:49:GLN:HE22	1.81	0.44
1:R:106:THR:HB	1:R:137:GLN:HG2	1.97	0.44
1:R:164:PRO:CG	1:R:174:ALA:CB	2.95	0.44
1:R:357:ILE:HD12	1:R:357:ILE:HA	1.79	0.44
1:S:38:PRO:HD3	1:S:49:GLN:HE22	1.82	0.44
1:S:167:GLU:OE1	1:U:61:LYS:CD	2.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:300:SER:HA	1:T:335:ARG:NE	2.32	0.44
1:V:110:LEU:CD1	1:V:177:ARG:NH1	2.80	0.44
1:A:148:THR:CG2	1:A:149:THR:N	2.81	0.44
1:B:35:VAL:H	1:B:68:LYS:H	1.65	0.44
1:B:349:LEU:HD23	1:B:349:LEU:HA	1.80	0.44
1:C:369:ILE:HG22	1:C:370:VAL:H	1.81	0.44
1:F:7:ALA:HB3	1:F:347:ALA:HB1	1.99	0.44
1:G:167:GLU:OE1	1:I:61:LYS:CD	2.65	0.44
1:H:116:ARG:NH1	1:H:375:PHE:HA	2.32	0.44
1:I:324:THR:HG23	1:K:241:GLU:OE2	2.17	0.44
1:J:34:ILE:HD13	1:J:67:LEU:CD2	2.46	0.44
1:J:73:HIC:HA	1:J:183:ARG:NH1	2.18	0.44
1:L:233:SER:HB3	1:L:236:LEU:HG	1.99	0.44
1:M:38:PRO:CG	1:M:49:GLN:NE2	2.79	0.44
1:O:116:ARG:NH1	1:O:375:PHE:HA	2.32	0.44
1:P:106:THR:HB	1:P:137:GLN:HG2	1.97	0.44
1:P:116:ARG:NH1	1:P:375:PHE:HA	2.32	0.44
1:R:300:SER:HA	1:R:335:ARG:NE	2.32	0.44
1:U:9:VAL:HG21	1:U:344:SER:HA	1.98	0.44
1:U:151:ILE:O	1:U:297:ASN:HA	2.17	0.44
1:V:34:ILE:O	1:V:54:VAL:HB	2.18	0.44
1:W:6:THR:O	1:W:102:PRO:HD2	2.17	0.44
1:W:300:SER:HA	1:W:335:ARG:NE	2.32	0.44
1:A:34:ILE:O	1:A:54:VAL:HB	2.18	0.44
1:A:170:ALA:O	1:A:172:PRO:HD3	2.18	0.44
1:C:148:THR:CG2	1:C:149:THR:N	2.81	0.44
1:C:298:VAL:CG1	1:C:335:ARG:NH1	2.81	0.44
1:D:7:ALA:HB1	1:D:347:ALA:HB1	1.98	0.44
1:D:38:PRO:HD3	1:D:49:GLN:HE22	1.81	0.44
1:G:34:ILE:O	1:G:54:VAL:HB	2.18	0.44
1:G:180:LEU:CD1	1:G:181:ALA:N	2.78	0.44
1:G:227:MET:HA	1:G:227:MET:HE3	2.00	0.44
1:G:287:ILE:HD12	1:I:208:ILE:HD13	1.96	0.44
1:G:300:SER:HA	1:G:335:ARG:NE	2.32	0.44
1:G:357:ILE:HD12	1:G:357:ILE:HA	1.79	0.44
1:H:369:ILE:HG22	1:H:370:VAL:H	1.81	0.44
1:I:116:ARG:NH1	1:I:375:PHE:HA	2.32	0.44
1:J:9:VAL:HG21	1:J:344:SER:HA	1.98	0.44
1:J:31:PHE:HA	1:J:32:PRO:HD3	1.66	0.44
1:J:170:ALA:O	1:J:172:PRO:HD3	2.18	0.44
1:K:34:ILE:O	1:K:54:VAL:HB	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:362:TYR:CE1	1:K:367:PRO:CB	2.99	0.44
1:L:34:ILE:HD13	1:L:67:LEU:CD2	2.46	0.44
1:L:38:PRO:HD3	1:L:49:GLN:HE22	1.81	0.44
1:L:287:ILE:HG22	1:L:290:ARG:NH1	2.31	0.44
1:M:34:ILE:O	1:M:54:VAL:HB	2.18	0.44
1:N:34:ILE:O	1:N:54:VAL:HB	2.18	0.44
1:O:148:THR:CG2	1:O:149:THR:N	2.81	0.44
1:O:287:ILE:HG22	1:O:290:ARG:NH1	2.32	0.44
1:O:369:ILE:HG22	1:O:370:VAL:H	1.81	0.44
1:P:9:VAL:HG21	1:P:344:SER:HA	1.98	0.44
1:P:300:SER:HA	1:P:335:ARG:NE	2.32	0.44
1:P:357:ILE:HD12	1:P:357:ILE:HA	1.79	0.44
1:R:7:ALA:HB3	1:R:347:ALA:HB1	1.99	0.44
1:R:233:SER:HB3	1:R:236:LEU:HG	1.99	0.44
1:T:6:THR:O	1:T:102:PRO:HD2	2.17	0.44
1:T:31:PHE:HA	1:T:32:PRO:HD3	1.66	0.44
1:V:151:ILE:O	1:V:297:ASN:HA	2.18	0.44
1:V:298:VAL:CG1	1:V:335:ARG:NH1	2.81	0.44
1:W:34:ILE:O	1:W:54:VAL:HB	2.18	0.44
1:W:133:TYR:CE2	1:W:375:PHE:HB2	2.51	0.44
1:W:151:ILE:O	1:W:297:ASN:HA	2.17	0.44
1:A:6:THR:O	1:A:102:PRO:HD2	2.17	0.44
1:A:300:SER:HA	1:A:335:ARG:NE	2.32	0.44
1:B:33:SER:O	1:B:69:TYR:CD1	2.69	0.44
1:B:34:ILE:O	1:B:54:VAL:HB	2.18	0.44
1:B:34:ILE:N	1:B:54:VAL:HG11	2.31	0.44
1:B:61:LYS:HG2	1:B:64:ILE:CG2	2.45	0.44
1:B:167:GLU:OE1	1:D:61:LYS:CD	2.65	0.44
1:B:298:VAL:CG1	1:B:335:ARG:NH1	2.81	0.44
1:D:6:THR:O	1:D:102:PRO:HD2	2.17	0.44
1:D:233:SER:HB3	1:D:236:LEU:HG	1.99	0.44
1:D:298:VAL:CG1	1:D:335:ARG:NH1	2.81	0.44
1:D:300:SER:HA	1:D:335:ARG:NE	2.32	0.44
1:E:34:ILE:O	1:E:54:VAL:HB	2.18	0.44
1:E:44:MET:CG	1:E:45:VAL:H	2.18	0.44
1:E:148:THR:CG2	1:E:149:THR:N	2.81	0.44
1:E:298:VAL:CG1	1:E:335:ARG:NH1	2.81	0.44
1:F:34:ILE:O	1:F:54:VAL:HB	2.18	0.44
1:F:298:VAL:CG1	1:F:335:ARG:NH1	2.81	0.44
1:F:335:ARG:HA	1:F:335:ARG:HD3	1.39	0.44
1:G:151:ILE:O	1:G:297:ASN:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:180:LEU:O	1:G:180:LEU:HG	2.11	0.44
1:H:7:ALA:HB1	1:H:347:ALA:HB1	1.98	0.44
1:H:298:VAL:CG1	1:H:335:ARG:NH1	2.81	0.44
1:J:34:ILE:O	1:J:54:VAL:HB	2.18	0.44
1:K:300:SER:HA	1:K:335:ARG:NE	2.32	0.44
1:L:369:ILE:HG23	1:L:370:VAL:N	2.30	0.44
1:M:43:VAL:C	1:M:44:MET:HG2	2.37	0.44
1:M:374:CYS:HB2	1:M:375:PHE:H	1.61	0.44
1:N:34:ILE:CG2	1:N:67:LEU:HD22	2.28	0.44
1:N:110:LEU:CD1	1:N:177:ARG:NH1	2.80	0.44
1:O:287:ILE:HD12	1:Q:208:ILE:HD13	1.96	0.44
1:Q:9:VAL:HG21	1:Q:344:SER:HA	1.98	0.44
1:Q:148:THR:CG2	1:Q:149:THR:N	2.81	0.44
1:Q:233:SER:HB3	1:Q:236:LEU:HG	1.99	0.44
1:R:369:ILE:HG22	1:R:370:VAL:H	1.81	0.44
1:S:164:PRO:CG	1:S:174:ALA:CB	2.95	0.44
1:S:233:SER:HB3	1:S:236:LEU:HG	1.99	0.44
1:S:335:ARG:HA	1:S:335:ARG:HD3	1.39	0.44
1:U:6:THR:O	1:U:102:PRO:HD2	2.17	0.44
1:U:170:ALA:O	1:U:172:PRO:HD3	2.18	0.44
1:V:38:PRO:CG	1:V:49:GLN:NE2	2.79	0.44
1:W:34:ILE:HD13	1:W:67:LEU:CD2	2.46	0.44
1:A:180:LEU:CD1	1:A:181:ALA:N	2.78	0.44
1:B:170:ALA:O	1:B:172:PRO:HD3	2.18	0.44
1:D:34:ILE:HD13	1:D:67:LEU:CD2	2.46	0.44
1:D:34:ILE:N	1:D:54:VAL:HG11	2.31	0.44
1:D:148:THR:CG2	1:D:149:THR:N	2.81	0.44
1:D:167:GLU:OE1	1:F:61:LYS:CD	2.65	0.44
1:E:7:ALA:HB1	1:E:347:ALA:HB1	1.98	0.44
1:E:167:GLU:OE1	1:G:61:LYS:CD	2.65	0.44
1:F:9:VAL:HG21	1:F:344:SER:HA	1.98	0.44
1:F:148:THR:CG2	1:F:149:THR:N	2.81	0.44
1:F:233:SER:HB3	1:F:236:LEU:HG	1.99	0.44
1:F:300:SER:HA	1:F:335:ARG:NE	2.32	0.44
1:G:6:THR:O	1:G:102:PRO:HD2	2.17	0.44
1:G:7:ALA:HB1	1:G:347:ALA:HB1	1.98	0.44
1:H:34:ILE:O	1:H:54:VAL:HB	2.18	0.44
1:H:44:MET:CG	1:H:45:VAL:N	2.76	0.44
1:I:6:THR:O	1:I:102:PRO:HD2	2.17	0.44
1:I:43:VAL:C	1:I:44:MET:HG2	2.37	0.44
1:J:298:VAL:CG1	1:J:335:ARG:NH1	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:362:TYR:CE1	1:J:367:PRO:CB	2.99	0.44
1:K:7:ALA:HB3	1:K:347:ALA:HB1	1.99	0.44
1:K:34:ILE:HG22	1:K:35:VAL:H	1.78	0.44
1:K:38:PRO:HD3	1:K:49:GLN:HE22	1.81	0.44
1:L:147:ARG:HH21	1:L:147:ARG:HG3	1.80	0.44
1:L:170:ALA:O	1:L:172:PRO:HD3	2.18	0.44
1:M:170:ALA:O	1:M:172:PRO:HD3	2.18	0.44
1:M:324:THR:HG23	1:O:241:GLU:OE2	2.16	0.44
1:O:180:LEU:O	1:O:180:LEU:HG	2.11	0.44
1:P:180:LEU:CD1	1:P:181:ALA:N	2.78	0.44
1:Q:324:THR:HG23	1:S:241:GLU:OE2	2.17	0.44
1:R:369:ILE:HG23	1:R:370:VAL:N	2.30	0.44
1:S:6:THR:O	1:S:102:PRO:HD2	2.17	0.44
1:S:151:ILE:O	1:S:297:ASN:HA	2.18	0.44
1:T:110:LEU:CD1	1:T:177:ARG:NH1	2.80	0.44
1:V:6:THR:O	1:V:102:PRO:HD2	2.17	0.44
1:V:369:ILE:HG22	1:V:370:VAL:H	1.81	0.44
1:W:35:VAL:H	1:W:68:LYS:H	1.65	0.44
1:W:39:ARG:NE	1:W:66:THR:CA	2.69	0.44
1:A:7:ALA:HB3	1:A:347:ALA:HB1	1.99	0.44
1:C:110:LEU:CD1	1:C:177:ARG:NH1	2.80	0.44
1:C:170:ALA:O	1:C:172:PRO:HD3	2.18	0.44
1:G:324:THR:HG23	1:I:241:GLU:OE2	2.16	0.44
1:H:7:ALA:HB3	1:H:347:ALA:HB1	1.99	0.44
1:I:369:ILE:HG23	1:I:370:VAL:N	2.30	0.44
1:K:35:VAL:H	1:K:68:LYS:H	1.65	0.44
1:K:151:ILE:O	1:K:297:ASN:HA	2.18	0.44
1:M:357:ILE:HD12	1:M:357:ILE:HA	1.79	0.44
1:N:180:LEU:CD1	1:N:181:ALA:N	2.78	0.44
1:O:6:THR:O	1:O:102:PRO:HD2	2.17	0.44
1:P:34:ILE:O	1:P:54:VAL:HB	2.18	0.44
1:Q:6:THR:O	1:Q:102:PRO:HD2	2.17	0.44
1:Q:170:ALA:O	1:Q:172:PRO:HD3	2.18	0.44
1:R:116:ARG:NH1	1:R:375:PHE:HA	2.32	0.44
1:S:8:LEU:CB	1:S:103:THR:HG23	2.48	0.44
1:S:34:ILE:O	1:S:54:VAL:HB	2.18	0.44
1:T:298:VAL:CG1	1:T:335:ARG:NH1	2.81	0.44
1:U:35:VAL:H	1:U:68:LYS:H	1.65	0.44
1:W:9:VAL:HG21	1:W:344:SER:HA	1.98	0.44
1:W:362:TYR:CE1	1:W:367:PRO:CB	2.99	0.44
1:A:298:VAL:CG1	1:A:335:ARG:NH1	2.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:369:ILE:HG22	1:A:370:VAL:H	1.81	0.44
1:C:349:LEU:HD23	1:C:349:LEU:HA	1.79	0.44
1:F:7:ALA:HB1	1:F:347:ALA:HB1	1.98	0.44
1:F:287:ILE:HD12	1:H:208:ILE:HD13	1.96	0.44
1:G:298:VAL:CG1	1:G:335:ARG:NH1	2.81	0.44
1:H:227:MET:HA	1:H:227:MET:HE3	1.99	0.44
1:I:44:MET:CG	1:I:45:VAL:N	2.76	0.44
1:I:170:ALA:O	1:I:172:PRO:HD3	2.18	0.44
1:L:6:THR:O	1:L:102:PRO:HD2	2.17	0.44
1:L:167:GLU:OE1	1:N:61:LYS:CD	2.65	0.44
1:M:6:THR:O	1:M:102:PRO:HD2	2.17	0.44
1:M:116:ARG:NH1	1:M:375:PHE:HA	2.32	0.44
1:M:233:SER:HB3	1:M:236:LEU:HG	1.99	0.44
1:P:110:LEU:CD1	1:P:177:ARG:NH1	2.80	0.44
1:Q:8:LEU:CB	1:Q:103:THR:HG23	2.48	0.44
1:Q:35:VAL:H	1:Q:68:LYS:H	1.65	0.44
1:R:6:THR:O	1:R:102:PRO:HD2	2.17	0.44
1:R:110:LEU:CD1	1:R:177:ARG:NH1	2.80	0.44
1:R:133:TYR:CE2	1:R:375:PHE:HB2	2.51	0.44
1:R:151:ILE:O	1:R:297:ASN:HA	2.17	0.44
1:T:233:SER:HB3	1:T:236:LEU:HG	1.99	0.44
1:U:233:SER:HB3	1:U:236:LEU:HG	1.99	0.44
1:U:236:LEU:CD1	1:U:237:GLU:CG	2.94	0.44
1:V:8:LEU:CB	1:V:103:THR:HG23	2.48	0.44
1:A:34:ILE:CG2	1:A:67:LEU:CB	2.96	0.44
1:A:223:PHE:CD1	1:A:259:GLU:CG	2.96	0.44
1:B:236:LEU:HD11	1:B:237:GLU:HG2	1.96	0.44
1:C:7:ALA:HB3	1:C:347:ALA:HB1	1.99	0.44
1:E:6:THR:O	1:E:102:PRO:HD2	2.17	0.44
1:F:116:ARG:NH1	1:F:375:PHE:HA	2.32	0.44
1:G:8:LEU:CB	1:G:103:THR:HG23	2.48	0.44
1:G:64:ILE:CG2	1:G:65:LEU:N	2.81	0.44
1:G:148:THR:CG2	1:G:149:THR:N	2.81	0.44
1:H:233:SER:HB3	1:H:236:LEU:HG	1.99	0.44
1:I:151:ILE:O	1:I:297:ASN:HA	2.18	0.44
1:K:6:THR:O	1:K:102:PRO:HD2	2.17	0.44
1:L:64:ILE:CG2	1:L:65:LEU:N	2.81	0.44
1:L:298:VAL:CG1	1:L:335:ARG:NH1	2.81	0.44
1:M:110:LEU:CD1	1:M:177:ARG:NH1	2.80	0.44
1:M:148:THR:CG2	1:M:149:THR:N	2.81	0.44
1:O:38:PRO:CG	1:O:49:GLN:NE2	2.79	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:73:HIC:HA	1:O:183:ARG:NH1	2.18	0.44
1:O:236:LEU:HD11	1:O:237:GLU:HG2	1.96	0.44
1:P:7:ALA:HB3	1:P:347:ALA:HB1	1.99	0.44
1:P:58:ALA:CB	1:P:65:LEU:CD2	2.90	0.44
1:R:34:ILE:HD13	1:R:67:LEU:CD2	2.46	0.44
1:R:34:ILE:O	1:R:54:VAL:HB	2.18	0.44
1:R:170:ALA:O	1:R:172:PRO:HD3	2.18	0.44
1:T:170:ALA:O	1:T:172:PRO:HD3	2.18	0.44
1:V:34:ILE:HD13	1:V:67:LEU:CD2	2.46	0.44
1:A:64:ILE:CG2	1:A:65:LEU:N	2.81	0.43
1:B:233:SER:HB3	1:B:236:LEU:HG	1.99	0.43
1:C:6:THR:O	1:C:102:PRO:HD2	2.17	0.43
1:C:34:ILE:CG2	1:C:67:LEU:CB	2.96	0.43
1:D:151:ILE:O	1:D:297:ASN:HA	2.18	0.43
1:E:8:LEU:CB	1:E:103:THR:HG23	2.48	0.43
1:E:110:LEU:CD1	1:E:177:ARG:NH1	2.80	0.43
1:E:151:ILE:O	1:E:297:ASN:HA	2.18	0.43
1:F:151:ILE:O	1:F:297:ASN:HA	2.17	0.43
1:H:151:ILE:O	1:H:297:ASN:HA	2.18	0.43
1:I:300:SER:HA	1:I:335:ARG:NE	2.32	0.43
1:J:233:SER:HB3	1:J:236:LEU:HG	1.99	0.43
1:K:43:VAL:C	1:K:44:MET:HG2	2.37	0.43
1:N:7:ALA:HB3	1:N:347:ALA:HB1	1.99	0.43
1:N:151:ILE:O	1:N:297:ASN:HA	2.18	0.43
1:N:298:VAL:CG1	1:N:335:ARG:NH1	2.81	0.43
1:O:110:LEU:CD1	1:O:177:ARG:NH1	2.80	0.43
1:P:34:ILE:CG2	1:P:67:LEU:CB	2.96	0.43
1:Q:34:ILE:HD13	1:Q:67:LEU:CD2	2.46	0.43
1:R:34:ILE:CG2	1:R:67:LEU:CB	2.96	0.43
1:T:151:ILE:O	1:T:297:ASN:HA	2.17	0.43
1:V:35:VAL:H	1:V:68:LYS:H	1.65	0.43
1:W:233:SER:HB3	1:W:236:LEU:HG	1.99	0.43
1:A:34:ILE:HD13	1:A:67:LEU:CD2	2.46	0.43
1:B:8:LEU:CB	1:B:103:THR:HG23	2.48	0.43
1:B:151:ILE:O	1:B:297:ASN:HA	2.18	0.43
1:B:299:MET:O	1:B:332:PRO:HD2	2.18	0.43
1:D:170:ALA:O	1:D:172:PRO:HD3	2.18	0.43
1:F:170:ALA:O	1:F:172:PRO:HD3	2.18	0.43
1:G:170:ALA:O	1:G:172:PRO:HD3	2.18	0.43
1:H:324:THR:HG23	1:J:241:GLU:OE2	2.17	0.43
1:I:7:ALA:HB3	1:I:347:ALA:HB1	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:324:THR:HG23	1:L:241:GLU:OE2	2.16	0.43
1:J:349:LEU:HD23	1:J:349:LEU:HA	1.80	0.43
1:K:116:ARG:NH1	1:K:375:PHE:HA	2.32	0.43
1:L:69:TYR:CD2	1:L:69:TYR:N	2.87	0.43
1:L:73:HIC:HA	1:L:183:ARG:NH1	2.18	0.43
1:L:151:ILE:O	1:L:297:ASN:HA	2.18	0.43
1:L:180:LEU:CD1	1:L:181:ALA:N	2.78	0.43
1:L:362:TYR:CE1	1:L:367:PRO:CB	2.99	0.43
1:M:299:MET:O	1:M:332:PRO:HD2	2.18	0.43
1:N:69:TYR:CD2	1:N:69:TYR:N	2.86	0.43
1:N:227:MET:HE3	1:N:227:MET:HA	2.00	0.43
1:O:233:SER:HB3	1:O:236:LEU:HG	1.99	0.43
1:O:298:VAL:CG1	1:O:335:ARG:NH1	2.81	0.43
1:P:64:ILE:CG2	1:P:65:LEU:N	2.81	0.43
1:Q:69:TYR:N	1:Q:69:TYR:CD2	2.86	0.43
1:R:64:ILE:CG2	1:R:65:LEU:N	2.81	0.43
1:S:69:TYR:CD2	1:S:69:TYR:N	2.87	0.43
1:S:147:ARG:HH21	1:S:147:ARG:HG3	1.80	0.43
1:S:170:ALA:O	1:S:172:PRO:HD3	2.18	0.43
1:U:64:ILE:CG2	1:U:65:LEU:N	2.81	0.43
1:U:69:TYR:CD2	1:U:69:TYR:N	2.87	0.43
1:V:233:SER:HB3	1:V:236:LEU:HG	1.99	0.43
1:V:236:LEU:HD11	1:V:237:GLU:HG2	1.96	0.43
1:W:180:LEU:O	1:W:180:LEU:HG	2.11	0.43
1:A:233:SER:HB3	1:A:236:LEU:HG	1.99	0.43
1:E:7:ALA:HB3	1:E:347:ALA:HB1	1.99	0.43
1:F:324:THR:HG23	1:H:241:GLU:OE2	2.16	0.43
1:G:147:ARG:HH21	1:G:147:ARG:HG3	1.80	0.43
1:H:35:VAL:H	1:H:68:LYS:H	1.65	0.43
1:H:148:THR:CG2	1:H:149:THR:N	2.81	0.43
1:H:170:ALA:O	1:H:172:PRO:HD3	2.18	0.43
1:H:362:TYR:CE1	1:H:367:PRO:CB	2.99	0.43
1:I:73:HIC:HA	1:I:183:ARG:NH1	2.18	0.43
1:I:133:TYR:CE2	1:I:375:PHE:HB2	2.51	0.43
1:I:299:MET:HE1	1:I:304:THR:HB	2.01	0.43
1:J:8:LEU:CB	1:J:103:THR:HG23	2.48	0.43
1:J:44:MET:CG	1:J:45:VAL:N	2.76	0.43
1:J:69:TYR:CD2	1:J:69:TYR:N	2.86	0.43
1:K:110:LEU:CD1	1:K:177:ARG:NH1	2.80	0.43
1:K:172:PRO:HA	1:K:175:ILE:CD1	2.49	0.43
1:L:324:THR:HG23	1:N:241:GLU:OE2	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:6:THR:O	1:N:102:PRO:HD2	2.17	0.43
1:N:34:ILE:CG2	1:N:67:LEU:CB	2.96	0.43
1:N:58:ALA:CB	1:N:65:LEU:CD2	2.90	0.43
1:N:170:ALA:O	1:N:172:PRO:HD3	2.18	0.43
1:O:34:ILE:O	1:O:54:VAL:HB	2.18	0.43
1:Q:38:PRO:CG	1:Q:49:GLN:NE2	2.79	0.43
1:Q:298:VAL:CG1	1:Q:335:ARG:NH1	2.81	0.43
1:R:31:PHE:HA	1:R:32:PRO:HD3	1.65	0.43
1:R:172:PRO:HA	1:R:175:ILE:CD1	2.49	0.43
1:R:298:VAL:CG1	1:R:335:ARG:NH1	2.81	0.43
1:S:148:THR:CG2	1:S:149:THR:N	2.81	0.43
1:S:149:THR:HG23	1:S:150:GLY:N	2.34	0.43
1:T:8:LEU:CB	1:T:103:THR:HG23	2.48	0.43
1:T:172:PRO:HA	1:T:175:ILE:CD1	2.49	0.43
1:U:8:LEU:CB	1:U:103:THR:HG23	2.48	0.43
1:W:38:PRO:CG	1:W:49:GLN:NE2	2.79	0.43
1:W:64:ILE:CG2	1:W:65:LEU:N	2.81	0.43
1:W:69:TYR:CD2	1:W:69:TYR:N	2.87	0.43
1:B:6:THR:O	1:B:102:PRO:HD2	2.17	0.43
1:B:34:ILE:CG2	1:B:67:LEU:CB	2.96	0.43
1:B:172:PRO:HA	1:B:175:ILE:CD1	2.49	0.43
1:C:8:LEU:CB	1:C:103:THR:HG23	2.48	0.43
1:D:324:THR:HG23	1:F:241:GLU:OE2	2.16	0.43
1:F:64:ILE:CG2	1:F:65:LEU:N	2.81	0.43
1:F:149:THR:HG23	1:F:150:GLY:N	2.34	0.43
1:F:236:LEU:CD1	1:F:237:GLU:CG	2.94	0.43
1:G:7:ALA:HB3	1:G:347:ALA:HB1	1.99	0.43
1:H:8:LEU:CB	1:H:103:THR:HG23	2.48	0.43
1:H:149:THR:HG23	1:H:150:GLY:N	2.34	0.43
1:I:39:ARG:NE	1:I:66:THR:CA	2.69	0.43
1:I:148:THR:CG2	1:I:149:THR:N	2.81	0.43
1:I:172:PRO:HA	1:I:175:ILE:CD1	2.49	0.43
1:I:299:MET:O	1:I:332:PRO:HD2	2.18	0.43
1:I:374:CYS:HB2	1:I:375:PHE:H	1.61	0.43
1:J:64:ILE:CG2	1:J:65:LEU:N	2.81	0.43
1:L:8:LEU:CB	1:L:103:THR:HG23	2.48	0.43
1:M:236:LEU:HD11	1:M:237:GLU:HG2	1.96	0.43
1:M:298:VAL:CG1	1:M:335:ARG:NH1	2.81	0.43
1:N:324:THR:HG23	1:P:241:GLU:OE2	2.16	0.43
1:O:151:ILE:O	1:O:297:ASN:HA	2.18	0.43
1:Q:149:THR:HG23	1:Q:150:GLY:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:151:ILE:O	1:Q:297:ASN:HA	2.18	0.43
1:Q:236:LEU:HD11	1:Q:237:GLU:HG2	1.97	0.43
1:S:38:PRO:CG	1:S:49:GLN:NE2	2.79	0.43
1:T:34:ILE:CG2	1:T:67:LEU:CB	2.96	0.43
1:U:38:PRO:CG	1:U:49:GLN:NE2	2.79	0.43
1:V:64:ILE:CG2	1:V:65:LEU:N	2.81	0.43
1:V:172:PRO:HA	1:V:175:ILE:CD1	2.49	0.43
1:W:170:ALA:O	1:W:172:PRO:HD3	2.18	0.43
1:W:298:VAL:CG1	1:W:335:ARG:NH1	2.81	0.43
1:W:357:ILE:HD12	1:W:357:ILE:HA	1.79	0.43
1:B:34:ILE:HG22	1:B:35:VAL:H	1.78	0.43
1:B:299:MET:HE1	1:B:309:ILE:HD13	2.00	0.43
1:C:136:ILE:O	1:C:139:VAL:HB	2.19	0.43
1:D:34:ILE:O	1:D:54:VAL:HB	2.18	0.43
1:D:167:GLU:CD	1:F:61:LYS:CE	2.85	0.43
1:E:136:ILE:O	1:E:139:VAL:HB	2.19	0.43
1:E:374:CYS:HB2	1:E:375:PHE:H	1.62	0.43
1:G:299:MET:O	1:G:332:PRO:HD2	2.18	0.43
1:I:8:LEU:CB	1:I:103:THR:HG23	2.48	0.43
1:I:298:VAL:CG1	1:I:335:ARG:NH1	2.81	0.43
1:J:7:ALA:HB3	1:J:347:ALA:HB1	1.99	0.43
1:J:107:GLU:O	1:J:137:GLN:HG3	2.19	0.43
1:J:151:ILE:O	1:J:297:ASN:HA	2.18	0.43
1:K:298:VAL:CG1	1:K:335:ARG:NH1	2.81	0.43
1:M:151:ILE:O	1:M:297:ASN:HA	2.18	0.43
1:M:172:PRO:HA	1:M:175:ILE:CD1	2.49	0.43
1:N:148:THR:CG2	1:N:149:THR:N	2.81	0.43
1:P:6:THR:O	1:P:102:PRO:HD2	2.17	0.43
1:R:136:ILE:O	1:R:139:VAL:HB	2.19	0.43
1:R:180:LEU:O	1:R:180:LEU:HG	2.11	0.43
1:T:369:ILE:HG22	1:T:370:VAL:H	1.81	0.43
1:U:34:ILE:HD13	1:U:67:LEU:CD2	2.46	0.43
1:V:149:THR:HG23	1:V:150:GLY:N	2.34	0.43
1:W:148:THR:CG2	1:W:149:THR:N	2.81	0.43
1:A:69:TYR:N	1:A:69:TYR:CD2	2.86	0.43
1:A:104:LEU:HD13	1:A:347:ALA:HB2	2.01	0.43
1:A:167:GLU:CD	1:C:61:LYS:CE	2.85	0.43
1:A:172:PRO:HA	1:A:175:ILE:CD1	2.49	0.43
1:A:357:ILE:HD12	1:A:357:ILE:HA	1.78	0.43
1:B:324:THR:HG23	1:D:241:GLU:OE2	2.16	0.43
1:C:69:TYR:CD2	1:C:69:TYR:N	2.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:151:ILE:O	1:C:297:ASN:HA	2.18	0.43
1:C:183:ARG:HE	1:C:183:ARG:HB3	1.59	0.43
1:E:64:ILE:CG2	1:E:65:LEU:N	2.81	0.43
1:E:172:PRO:HA	1:E:175:ILE:CD1	2.49	0.43
1:H:69:TYR:CD2	1:H:69:TYR:N	2.86	0.43
1:I:167:GLU:CD	1:K:61:LYS:CE	2.85	0.43
1:K:170:ALA:O	1:K:172:PRO:HD3	2.18	0.43
1:K:299:MET:O	1:K:332:PRO:HD2	2.18	0.43
1:L:7:ALA:HB3	1:L:347:ALA:HB1	1.99	0.43
1:L:35:VAL:H	1:L:68:LYS:H	1.65	0.43
1:L:39:ARG:NE	1:L:66:THR:CA	2.69	0.43
1:L:148:THR:CG2	1:L:149:THR:N	2.81	0.43
1:L:299:MET:O	1:L:332:PRO:HD2	2.18	0.43
1:M:180:LEU:CD1	1:M:181:ALA:N	2.78	0.43
1:O:31:PHE:HA	1:O:32:PRO:HD3	1.65	0.43
1:O:69:TYR:CD2	1:O:69:TYR:N	2.86	0.43
1:O:149:THR:HG23	1:O:150:GLY:N	2.34	0.43
1:P:104:LEU:HD13	1:P:347:ALA:HB2	2.01	0.43
1:P:107:GLU:O	1:P:137:GLN:HG3	2.19	0.43
1:P:136:ILE:O	1:P:139:VAL:HB	2.19	0.43
1:P:298:VAL:CG1	1:P:335:ARG:NH1	2.81	0.43
1:P:324:THR:HG23	1:R:241:GLU:OE2	2.16	0.43
1:Q:110:LEU:CD1	1:Q:177:ARG:NH1	2.80	0.43
1:Q:299:MET:O	1:Q:332:PRO:HD2	2.18	0.43
1:S:298:VAL:CG1	1:S:335:ARG:NH1	2.81	0.43
1:T:34:ILE:O	1:T:54:VAL:HB	2.18	0.43
1:T:136:ILE:O	1:T:139:VAL:HB	2.19	0.43
1:T:149:THR:HG23	1:T:150:GLY:N	2.34	0.43
1:U:298:VAL:CG1	1:U:335:ARG:NH1	2.81	0.43
1:A:136:ILE:O	1:A:139:VAL:HB	2.19	0.43
1:C:34:ILE:O	1:C:54:VAL:HB	2.17	0.43
1:C:35:VAL:H	1:C:68:LYS:H	1.65	0.43
1:C:172:PRO:HA	1:C:175:ILE:CD1	2.49	0.43
1:D:65:LEU:HD13	1:D:67:LEU:HD23	2.01	0.43
1:D:149:THR:HG23	1:D:150:GLY:N	2.34	0.43
1:D:172:PRO:HA	1:D:175:ILE:CD1	2.49	0.43
1:E:287:ILE:HD12	1:G:208:ILE:HD13	1.96	0.43
1:L:44:MET:CG	1:L:45:VAL:N	2.76	0.43
1:L:104:LEU:HD13	1:L:347:ALA:HB2	2.01	0.43
1:N:8:LEU:CB	1:N:103:THR:HG23	2.48	0.43
1:N:104:LEU:HD13	1:N:347:ALA:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:65:LEU:HD13	1:O:67:LEU:HD23	2.01	0.43
1:O:170:ALA:O	1:O:172:PRO:HD3	2.18	0.43
1:O:324:THR:HG23	1:Q:241:GLU:OE2	2.17	0.43
1:P:35:VAL:H	1:P:68:LYS:H	1.65	0.43
1:P:151:ILE:O	1:P:297:ASN:HA	2.18	0.43
1:P:170:ALA:O	1:P:172:PRO:HD3	2.18	0.43
1:Q:65:LEU:HD13	1:Q:67:LEU:HD23	2.01	0.43
1:Q:171:LEU:HA	1:Q:172:PRO:HD3	1.79	0.43
1:S:65:LEU:HD13	1:S:67:LEU:HD23	2.01	0.43
1:S:227:MET:HA	1:S:227:MET:HE3	2.00	0.43
1:V:149:THR:CG2	1:V:150:GLY:N	2.82	0.43
1:A:35:VAL:H	1:A:68:LYS:H	1.65	0.43
1:A:151:ILE:O	1:A:297:ASN:HA	2.17	0.43
1:A:374:CYS:HB2	1:A:375:PHE:H	1.61	0.43
1:B:69:TYR:CD2	1:B:69:TYR:N	2.86	0.43
1:C:178:LEU:HG	1:C:180:LEU:H	1.84	0.43
1:C:335:ARG:HD3	1:C:335:ARG:HA	1.39	0.43
1:D:8:LEU:CB	1:D:103:THR:HG23	2.48	0.43
1:D:64:ILE:CG2	1:D:65:LEU:N	2.81	0.43
1:E:357:ILE:HD12	1:E:357:ILE:HA	1.79	0.43
1:F:65:LEU:HD13	1:F:67:LEU:HD23	2.01	0.43
1:G:136:ILE:O	1:G:139:VAL:HB	2.19	0.43
1:H:104:LEU:HD13	1:H:347:ALA:HB2	2.01	0.43
1:I:34:ILE:HD13	1:I:67:LEU:CD2	2.46	0.43
1:I:64:ILE:CG2	1:I:65:LEU:N	2.81	0.43
1:I:72:GLU:O	1:I:183:ARG:NH2	2.52	0.43
1:J:171:LEU:HA	1:J:172:PRO:HD3	1.79	0.43
1:N:136:ILE:O	1:N:139:VAL:HB	2.19	0.43
1:N:299:MET:O	1:N:332:PRO:HD2	2.18	0.43
1:P:69:TYR:CD2	1:P:69:TYR:N	2.87	0.43
1:P:148:THR:CG2	1:P:149:THR:N	2.81	0.43
1:P:287:ILE:HD12	1:R:208:ILE:HD13	1.96	0.43
1:R:149:THR:HG23	1:R:150:GLY:N	2.34	0.43
1:U:34:ILE:O	1:U:54:VAL:HB	2.18	0.43
1:U:44:MET:CG	1:U:45:VAL:H	2.18	0.43
1:U:104:LEU:HD13	1:U:347:ALA:HB2	2.01	0.43
1:U:107:GLU:O	1:U:137:GLN:HG3	2.19	0.43
1:V:299:MET:O	1:V:332:PRO:HD2	2.18	0.43
1:W:104:LEU:HD13	1:W:347:ALA:HB2	2.01	0.43
1:A:107:GLU:O	1:A:137:GLN:HG3	2.19	0.43
1:B:34:ILE:CG2	1:B:67:LEU:HD22	2.28	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:65:LEU:HD13	1:B:67:LEU:HD23	2.01	0.43
1:C:104:LEU:HD13	1:C:347:ALA:HB2	2.01	0.43
1:D:180:LEU:O	1:D:180:LEU:HG	2.11	0.43
1:D:236:LEU:HD11	1:D:237:GLU:HG2	1.96	0.43
1:E:34:ILE:HD13	1:E:67:LEU:CD2	2.46	0.43
1:E:69:TYR:CD2	1:E:69:TYR:N	2.87	0.43
1:E:104:LEU:HD13	1:E:347:ALA:HB2	2.01	0.43
1:G:104:LEU:HD13	1:G:347:ALA:HB2	2.01	0.43
1:G:172:PRO:HA	1:G:175:ILE:CD1	2.49	0.43
1:H:64:ILE:CG2	1:H:65:LEU:N	2.81	0.43
1:I:34:ILE:O	1:I:54:VAL:HB	2.18	0.43
1:I:105:LEU:HD11	1:I:123:MET:HG3	2.01	0.43
1:I:110:LEU:CD1	1:I:177:ARG:NH1	2.80	0.43
1:I:136:ILE:O	1:I:139:VAL:HB	2.19	0.43
1:J:104:LEU:HD13	1:J:347:ALA:HB2	2.01	0.43
1:J:148:THR:CG2	1:J:149:THR:N	2.81	0.43
1:J:236:LEU:CD1	1:J:237:GLU:CG	2.93	0.43
1:J:299:MET:O	1:J:332:PRO:HD2	2.18	0.43
1:L:34:ILE:O	1:L:54:VAL:HB	2.18	0.43
1:L:167:GLU:CD	1:N:61:LYS:CE	2.85	0.43
1:M:2:GLU:HB3	1:M:3:ASP:H	1.66	0.43
1:M:72:GLU:O	1:M:183:ARG:NH2	2.52	0.43
1:M:362:TYR:CE1	1:M:367:PRO:CB	2.99	0.43
1:N:35:VAL:H	1:N:68:LYS:H	1.65	0.43
1:N:105:LEU:HD11	1:N:123:MET:HG3	2.01	0.43
1:N:107:GLU:O	1:N:137:GLN:HG3	2.19	0.43
1:O:64:ILE:CG2	1:O:65:LEU:N	2.81	0.43
1:O:172:PRO:HA	1:O:175:ILE:CD1	2.49	0.43
1:P:149:THR:HG23	1:P:150:GLY:N	2.34	0.43
1:Q:183:ARG:HE	1:Q:183:ARG:HB3	1.58	0.43
1:R:39:ARG:NE	1:R:66:THR:CA	2.69	0.43
1:R:104:LEU:HD13	1:R:347:ALA:HB2	2.01	0.43
1:S:34:ILE:CG2	1:S:67:LEU:CB	2.96	0.43
1:S:35:VAL:H	1:S:68:LYS:H	1.65	0.43
1:S:180:LEU:O	1:S:180:LEU:HG	2.11	0.43
1:V:105:LEU:HD11	1:V:123:MET:HG3	2.01	0.43
1:V:107:GLU:O	1:V:137:GLN:HG3	2.19	0.43
1:A:8:LEU:CB	1:A:103:THR:HG23	2.48	0.43
1:B:178:LEU:HG	1:B:180:LEU:H	1.84	0.43
1:C:324:THR:HG23	1:E:241:GLU:OE2	2.16	0.43
1:D:299:MET:O	1:D:332:PRO:HD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:35:VAL:H	1:E:68:LYS:H	1.65	0.43
1:E:107:GLU:O	1:E:137:GLN:HG3	2.19	0.43
1:F:69:TYR:CD2	1:F:69:TYR:N	2.86	0.43
1:F:104:LEU:HD13	1:F:347:ALA:HB2	2.01	0.43
1:G:149:THR:CG2	1:G:150:GLY:N	2.82	0.43
1:G:173:HIS:HE1	1:H:268:GLY:CA	2.28	0.43
1:H:106:THR:HG22	1:H:140:LEU:HD11	2.01	0.43
1:H:299:MET:HE1	1:H:304:THR:HB	2.01	0.43
1:I:104:LEU:HD13	1:I:347:ALA:HB2	2.01	0.43
1:K:148:THR:CG2	1:K:149:THR:N	2.81	0.43
1:K:236:LEU:HD11	1:K:237:GLU:HG2	1.96	0.43
1:M:64:ILE:CG2	1:M:65:LEU:N	2.81	0.43
1:M:149:THR:HG23	1:M:150:GLY:N	2.34	0.43
1:Q:178:LEU:HG	1:Q:180:LEU:H	1.84	0.43
1:R:35:VAL:H	1:R:68:LYS:H	1.65	0.43
1:S:107:GLU:O	1:S:137:GLN:HG3	2.19	0.43
1:T:105:LEU:HD11	1:T:123:MET:HG3	2.01	0.43
1:T:299:MET:O	1:T:332:PRO:HD2	2.18	0.43
1:V:104:LEU:HD13	1:V:347:ALA:HB2	2.01	0.43
1:V:136:ILE:O	1:V:139:VAL:HB	2.19	0.43
1:A:105:LEU:HD11	1:A:123:MET:HG3	2.01	0.42
1:B:107:GLU:O	1:B:137:GLN:HG3	2.19	0.42
1:B:148:THR:CG2	1:B:149:THR:N	2.81	0.42
1:B:149:THR:CG2	1:B:150:GLY:N	2.82	0.42
1:B:173:HIS:HE1	1:C:268:GLY:CA	2.28	0.42
1:B:362:TYR:CE1	1:B:367:PRO:CB	2.99	0.42
1:C:105:LEU:HD11	1:C:123:MET:HG3	2.01	0.42
1:D:110:LEU:CD1	1:D:177:ARG:HH11	2.32	0.42
1:E:72:GLU:O	1:E:183:ARG:NH2	2.52	0.42
1:E:170:ALA:O	1:E:172:PRO:HD3	2.18	0.42
1:F:106:THR:HG22	1:F:140:LEU:HD11	2.01	0.42
1:F:172:PRO:HA	1:F:175:ILE:CD1	2.49	0.42
1:G:105:LEU:HD11	1:G:123:MET:HG3	2.01	0.42
1:H:65:LEU:HD13	1:H:67:LEU:HD23	2.01	0.42
1:H:180:LEU:O	1:H:180:LEU:HG	2.11	0.42
1:K:2:GLU:HB3	1:K:3:ASP:H	1.66	0.42
1:K:8:LEU:CB	1:K:103:THR:HG23	2.48	0.42
1:K:105:LEU:HD11	1:K:123:MET:HG3	2.01	0.42
1:L:136:ILE:O	1:L:139:VAL:HB	2.19	0.42
1:M:73:HIC:HA	1:M:183:ARG:NH1	2.18	0.42
1:N:8:LEU:N	1:N:102:PRO:O	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:8:LEU:CB	1:P:103:THR:HG23	2.48	0.42
1:P:105:LEU:HD11	1:P:123:MET:HG3	2.01	0.42
1:R:178:LEU:HG	1:R:180:LEU:H	1.84	0.42
1:S:299:MET:O	1:S:332:PRO:HD2	2.18	0.42
1:T:72:GLU:O	1:T:183:ARG:NH2	2.52	0.42
1:T:104:LEU:HD13	1:T:347:ALA:HB2	2.01	0.42
1:V:180:LEU:HD12	1:V:181:ALA:CA	2.50	0.42
1:B:133:TYR:CE2	1:B:375:PHE:HB2	2.51	0.42
1:B:167:GLU:OE1	1:D:61:LYS:HE2	2.20	0.42
1:B:287:ILE:HD12	1:D:208:ILE:HD13	1.96	0.42
1:B:357:ILE:HD12	1:B:357:ILE:HA	1.79	0.42
1:C:167:GLU:OE1	1:E:61:LYS:HE2	2.19	0.42
1:C:357:ILE:HD12	1:C:357:ILE:HA	1.79	0.42
1:D:107:GLU:O	1:D:137:GLN:HG3	2.19	0.42
1:E:167:GLU:OE1	1:G:61:LYS:HE2	2.20	0.42
1:E:178:LEU:HG	1:E:180:LEU:H	1.84	0.42
1:F:136:ILE:O	1:F:139:VAL:HB	2.19	0.42
1:F:299:MET:O	1:F:332:PRO:HD2	2.18	0.42
1:G:34:ILE:CG2	1:G:67:LEU:CB	2.96	0.42
1:G:35:VAL:H	1:G:68:LYS:H	1.65	0.42
1:G:69:TYR:N	1:G:69:TYR:CD2	2.87	0.42
1:G:167:GLU:OE1	1:I:61:LYS:HE2	2.20	0.42
1:H:107:GLU:O	1:H:137:GLN:HG3	2.19	0.42
1:H:136:ILE:O	1:H:139:VAL:HB	2.19	0.42
1:H:172:PRO:HA	1:H:175:ILE:CD1	2.49	0.42
1:I:2:GLU:HB3	1:I:3:ASP:H	1.66	0.42
1:I:167:GLU:OE1	1:K:64:ILE:HD13	2.19	0.42
1:J:135:ALA:CB	1:J:140:LEU:HD21	2.49	0.42
1:J:167:GLU:OE1	1:L:64:ILE:HD13	2.19	0.42
1:J:172:PRO:HA	1:J:175:ILE:CD1	2.49	0.42
1:K:72:GLU:O	1:K:183:ARG:NH2	2.52	0.42
1:L:34:ILE:HG23	1:L:67:LEU:HB3	2.02	0.42
1:L:167:GLU:OE1	1:N:64:ILE:HD13	2.19	0.42
1:L:172:PRO:HA	1:L:175:ILE:CD1	2.49	0.42
1:M:105:LEU:HD11	1:M:123:MET:HG3	2.01	0.42
1:N:172:PRO:HA	1:N:175:ILE:CD1	2.49	0.42
1:O:136:ILE:O	1:O:139:VAL:HB	2.19	0.42
1:O:299:MET:O	1:O:332:PRO:HD2	2.18	0.42
1:O:349:LEU:HD23	1:O:349:LEU:HA	1.80	0.42
1:P:106:THR:HG22	1:P:140:LEU:HD11	2.01	0.42
1:P:172:PRO:HA	1:P:175:ILE:CD1	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:299:MET:O	1:P:332:PRO:HD2	2.18	0.42
1:Q:149:THR:CG2	1:Q:150:GLY:N	2.82	0.42
1:Q:362:TYR:CE1	1:Q:367:PRO:CB	2.99	0.42
1:R:72:GLU:O	1:R:183:ARG:NH2	2.52	0.42
1:S:64:ILE:CG2	1:S:65:LEU:N	2.81	0.42
1:S:104:LEU:HD13	1:S:347:ALA:HB2	2.01	0.42
1:S:106:THR:HG22	1:S:140:LEU:HD11	2.01	0.42
1:S:110:LEU:CD1	1:S:177:ARG:NH1	2.80	0.42
1:T:35:VAL:H	1:T:68:LYS:H	1.65	0.42
1:T:64:ILE:CG2	1:T:65:LEU:N	2.81	0.42
1:T:180:LEU:HD12	1:T:181:ALA:CA	2.50	0.42
1:U:65:LEU:HD13	1:U:67:LEU:HD23	2.01	0.42
1:U:149:THR:HG23	1:U:150:GLY:N	2.34	0.42
1:U:180:LEU:HD12	1:U:181:ALA:CA	2.49	0.42
1:U:299:MET:HE1	1:U:304:THR:HB	2.01	0.42
1:U:299:MET:O	1:U:332:PRO:HD2	2.18	0.42
1:V:2:GLU:HB3	1:V:3:ASP:H	1.66	0.42
1:V:170:ALA:O	1:V:172:PRO:HD3	2.18	0.42
1:W:8:LEU:CB	1:W:103:THR:HG23	2.48	0.42
1:W:34:ILE:CG2	1:W:67:LEU:CB	2.96	0.42
1:A:299:MET:O	1:A:332:PRO:HD2	2.18	0.42
1:B:72:GLU:O	1:B:183:ARG:NH2	2.52	0.42
1:B:105:LEU:HD11	1:B:123:MET:HG3	2.01	0.42
1:B:121:GLN:HG3	1:B:362:TYR:OH	2.20	0.42
1:B:374:CYS:HB2	1:B:375:PHE:H	1.61	0.42
1:D:69:TYR:CD2	1:D:69:TYR:N	2.87	0.42
1:D:167:GLU:OE1	1:F:61:LYS:HE2	2.20	0.42
1:E:299:MET:O	1:E:332:PRO:HD2	2.18	0.42
1:G:121:GLN:HG3	1:G:362:TYR:OH	2.20	0.42
1:G:149:THR:HG23	1:G:150:GLY:N	2.34	0.42
1:H:34:ILE:HD13	1:H:67:LEU:CD2	2.46	0.42
1:I:34:ILE:CG2	1:I:67:LEU:CB	2.96	0.42
1:J:35:VAL:H	1:J:68:LYS:H	1.65	0.42
1:J:105:LEU:HD11	1:J:123:MET:HG3	2.01	0.42
1:K:149:THR:CG2	1:K:150:GLY:N	2.82	0.42
1:K:149:THR:HG23	1:K:150:GLY:N	2.34	0.42
1:L:34:ILE:CG2	1:L:67:LEU:CB	2.96	0.42
1:L:105:LEU:HD11	1:L:123:MET:HG3	2.01	0.42
1:L:135:ALA:CB	1:L:140:LEU:HD21	2.49	0.42
1:M:65:LEU:HD13	1:M:67:LEU:HD23	2.01	0.42
1:M:167:GLU:OE1	1:O:64:ILE:HD13	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:73:HIC:HA	1:N:183:ARG:NH1	2.18	0.42
1:N:149:THR:HG23	1:N:150:GLY:N	2.34	0.42
1:O:178:LEU:HG	1:O:180:LEU:H	1.84	0.42
1:P:299:MET:HE1	1:P:309:ILE:HD13	2.00	0.42
1:Q:64:ILE:CG2	1:Q:65:LEU:N	2.81	0.42
1:Q:173:HIS:HE1	1:R:268:GLY:CA	2.28	0.42
1:R:148:THR:CG2	1:R:149:THR:N	2.81	0.42
1:R:180:LEU:HD12	1:R:181:ALA:CA	2.49	0.42
1:S:34:ILE:HG23	1:S:67:LEU:HB3	2.02	0.42
1:S:136:ILE:O	1:S:139:VAL:HB	2.19	0.42
1:S:167:GLU:CD	1:U:61:LYS:CE	2.85	0.42
1:S:362:TYR:CE1	1:S:367:PRO:CB	2.99	0.42
1:T:107:GLU:O	1:T:137:GLN:HG3	2.19	0.42
1:T:133:TYR:CE2	1:T:375:PHE:HB2	2.51	0.42
1:U:34:ILE:HG23	1:U:67:LEU:HB3	2.02	0.42
1:U:72:GLU:O	1:U:183:ARG:NH2	2.52	0.42
1:U:110:LEU:CD1	1:U:177:ARG:HH11	2.32	0.42
1:U:136:ILE:O	1:U:139:VAL:HB	2.19	0.42
1:U:167:GLU:OE1	1:W:64:ILE:HD13	2.19	0.42
1:V:69:TYR:CD2	1:V:69:TYR:N	2.86	0.42
1:V:72:GLU:O	1:V:183:ARG:NH2	2.52	0.42
1:W:49:GLN:HG3	1:W:50:LYS:N	2.21	0.42
1:W:105:LEU:HD11	1:W:123:MET:HG3	2.01	0.42
1:W:107:GLU:O	1:W:137:GLN:HG3	2.19	0.42
1:W:180:LEU:HD12	1:W:181:ALA:CA	2.50	0.42
1:W:299:MET:O	1:W:332:PRO:HD2	2.18	0.42
1:A:180:LEU:HD12	1:A:181:ALA:CA	2.50	0.42
1:B:136:ILE:O	1:B:139:VAL:HB	2.19	0.42
1:B:149:THR:HG23	1:B:150:GLY:N	2.34	0.42
1:B:180:LEU:CD1	1:B:181:ALA:N	2.78	0.42
1:C:72:GLU:O	1:C:183:ARG:NH2	2.52	0.42
1:D:121:GLN:HG3	1:D:362:TYR:OH	2.20	0.42
1:E:105:LEU:HD11	1:E:123:MET:HG3	2.01	0.42
1:F:121:GLN:HG3	1:F:362:TYR:OH	2.20	0.42
1:F:167:GLU:OE1	1:H:61:LYS:HE2	2.20	0.42
1:G:65:LEU:HD13	1:G:67:LEU:HD23	2.01	0.42
1:G:110:LEU:CD1	1:G:177:ARG:NH1	2.80	0.42
1:H:105:LEU:HD11	1:H:123:MET:HG3	2.01	0.42
1:I:69:TYR:N	1:I:69:TYR:CD2	2.86	0.42
1:I:121:GLN:HG3	1:I:362:TYR:OH	2.20	0.42
1:I:149:THR:HG23	1:I:150:GLY:N	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:178:LEU:HG	1:I:180:LEU:H	1.84	0.42
1:J:34:ILE:HG23	1:J:67:LEU:HB3	2.02	0.42
1:J:72:GLU:O	1:J:183:ARG:NH2	2.52	0.42
1:J:180:LEU:CD1	1:J:181:ALA:N	2.78	0.42
1:M:335:ARG:HA	1:M:335:ARG:HD3	1.39	0.42
1:N:300:SER:HA	1:N:335:ARG:CD	2.50	0.42
1:O:34:ILE:HG23	1:O:67:LEU:HB3	2.01	0.42
1:O:105:LEU:HD11	1:O:123:MET:HG3	2.01	0.42
1:O:362:TYR:CE1	1:O:367:PRO:CB	2.99	0.42
1:Q:34:ILE:HG23	1:Q:67:LEU:HB3	2.02	0.42
1:Q:106:THR:HG22	1:Q:140:LEU:HD11	2.01	0.42
1:R:69:TYR:CD2	1:R:69:TYR:N	2.87	0.42
1:R:105:LEU:HD11	1:R:123:MET:HG3	2.01	0.42
1:R:106:THR:HG22	1:R:140:LEU:HD11	2.01	0.42
1:S:180:LEU:HD12	1:S:181:ALA:CA	2.49	0.42
1:S:236:LEU:HD11	1:S:237:GLU:HG2	1.96	0.42
1:T:178:LEU:HG	1:T:180:LEU:H	1.84	0.42
1:U:105:LEU:HD11	1:U:123:MET:HG3	2.01	0.42
1:U:106:THR:HG22	1:U:140:LEU:HD11	2.01	0.42
1:U:178:LEU:HG	1:U:180:LEU:H	1.84	0.42
1:U:357:ILE:HD12	1:U:357:ILE:HA	1.79	0.42
1:A:167:GLU:OE1	1:C:61:LYS:HE2	2.20	0.42
1:B:8:LEU:N	1:B:102:PRO:O	2.48	0.42
1:C:34:ILE:HG23	1:C:67:LEU:HB3	2.01	0.42
1:C:149:THR:CG2	1:C:150:GLY:N	2.82	0.42
1:C:180:LEU:HD12	1:C:181:ALA:CA	2.50	0.42
1:D:34:ILE:CG2	1:D:67:LEU:CB	2.96	0.42
1:D:104:LEU:HD13	1:D:347:ALA:HB2	2.01	0.42
1:E:121:GLN:HG3	1:E:362:TYR:OH	2.20	0.42
1:F:72:GLU:O	1:F:183:ARG:NH2	2.52	0.42
1:F:362:TYR:CE1	1:F:367:PRO:CB	2.99	0.42
1:G:2:GLU:HB3	1:G:3:ASP:H	1.66	0.42
1:G:167:GLU:OE1	1:I:64:ILE:HD13	2.19	0.42
1:H:110:LEU:CD1	1:H:177:ARG:HH11	2.32	0.42
1:H:135:ALA:CB	1:H:140:LEU:HD21	2.49	0.42
1:J:106:THR:HG22	1:J:140:LEU:HD11	2.01	0.42
1:J:178:LEU:HG	1:J:180:LEU:H	1.84	0.42
1:K:64:ILE:CG2	1:K:65:LEU:N	2.81	0.42
1:K:121:GLN:HG3	1:K:362:TYR:OH	2.20	0.42
1:K:136:ILE:O	1:K:139:VAL:HB	2.19	0.42
1:K:178:LEU:HG	1:K:180:LEU:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:107:GLU:O	1:L:137:GLN:HG3	2.19	0.42
1:M:34:ILE:HD13	1:M:67:LEU:CD2	2.46	0.42
1:M:136:ILE:O	1:M:139:VAL:HB	2.19	0.42
1:N:178:LEU:HG	1:N:180:LEU:H	1.84	0.42
1:O:110:LEU:CD1	1:O:177:ARG:HH11	2.32	0.42
1:O:121:GLN:HG3	1:O:362:TYR:OH	2.20	0.42
1:P:180:LEU:HD12	1:P:181:ALA:CA	2.50	0.42
1:P:300:SER:HA	1:P:335:ARG:CD	2.50	0.42
1:Q:172:PRO:HA	1:Q:175:ILE:CD1	2.49	0.42
1:R:121:GLN:HG3	1:R:362:TYR:OH	2.20	0.42
1:S:105:LEU:HD11	1:S:123:MET:HG3	2.01	0.42
1:S:135:ALA:CB	1:S:140:LEU:HD21	2.49	0.42
1:S:357:ILE:CG2	1:S:358:THR:N	2.83	0.42
1:W:34:ILE:HG23	1:W:67:LEU:HB3	2.02	0.42
1:W:65:LEU:HD13	1:W:67:LEU:HD23	2.01	0.42
1:W:172:PRO:HA	1:W:175:ILE:CD1	2.49	0.42
1:A:65:LEU:HD13	1:A:67:LEU:HD23	2.01	0.42
1:B:167:GLU:OE1	1:D:64:ILE:HD13	2.19	0.42
1:C:149:THR:HG23	1:C:150:GLY:N	2.34	0.42
1:D:106:THR:HG22	1:D:140:LEU:HD11	2.01	0.42
1:E:149:THR:HG23	1:E:150:GLY:N	2.34	0.42
1:E:180:LEU:HD12	1:E:181:ALA:CA	2.50	0.42
1:F:8:LEU:CB	1:F:103:THR:HG23	2.48	0.42
1:F:167:GLU:OE1	1:H:64:ILE:HD13	2.19	0.42
1:F:178:LEU:HG	1:F:180:LEU:H	1.84	0.42
1:G:72:GLU:O	1:G:183:ARG:NH2	2.52	0.42
1:H:178:LEU:HG	1:H:180:LEU:H	1.84	0.42
1:I:35:VAL:H	1:I:68:LYS:H	1.65	0.42
1:I:167:GLU:OE1	1:K:61:LYS:HE2	2.20	0.42
1:J:65:LEU:HD13	1:J:67:LEU:HD23	2.01	0.42
1:J:110:LEU:CD1	1:J:177:ARG:HH11	2.32	0.42
1:J:136:ILE:O	1:J:139:VAL:HB	2.19	0.42
1:K:44:MET:CG	1:K:45:VAL:N	2.76	0.42
1:K:69:TYR:CD2	1:K:69:TYR:N	2.86	0.42
1:K:104:LEU:HD13	1:K:347:ALA:HB2	2.01	0.42
1:M:31:PHE:HA	1:M:32:PRO:HD3	1.65	0.42
1:N:34:ILE:HG23	1:N:67:LEU:HB3	2.02	0.42
1:N:64:ILE:CG2	1:N:65:LEU:N	2.81	0.42
1:N:72:GLU:O	1:N:183:ARG:NH2	2.52	0.42
1:N:106:THR:HG22	1:N:140:LEU:HD11	2.01	0.42
1:N:135:ALA:CB	1:N:140:LEU:HD21	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:167:GLU:OE1	1:P:64:ILE:HD13	2.19	0.42
1:N:180:LEU:HD12	1:N:181:ALA:CA	2.50	0.42
1:N:374:CYS:HB2	1:N:375:PHE:H	1.61	0.42
1:O:104:LEU:HD13	1:O:347:ALA:HB2	2.01	0.42
1:O:167:GLU:CD	1:Q:61:LYS:CE	2.85	0.42
1:P:72:GLU:O	1:P:183:ARG:NH2	2.52	0.42
1:Q:72:GLU:O	1:Q:183:ARG:NH2	2.52	0.42
1:Q:105:LEU:HD11	1:Q:123:MET:HG3	2.01	0.42
1:Q:110:LEU:CD1	1:Q:177:ARG:HH11	2.32	0.42
1:R:299:MET:O	1:R:332:PRO:HD2	2.18	0.42
1:S:172:PRO:HA	1:S:175:ILE:CD1	2.49	0.42
1:S:178:LEU:HG	1:S:180:LEU:H	1.84	0.42
1:T:65:LEU:HD13	1:T:67:LEU:HD23	2.01	0.42
1:T:121:GLN:HG3	1:T:362:TYR:OH	2.20	0.42
1:U:172:PRO:HA	1:U:175:ILE:CD1	2.49	0.42
1:U:362:TYR:CE1	1:U:367:PRO:CB	2.99	0.42
1:V:34:ILE:HG23	1:V:67:LEU:HB3	2.01	0.42
1:W:178:LEU:HG	1:W:180:LEU:H	1.84	0.42
1:A:324:THR:HG23	1:C:241:GLU:OE2	2.16	0.42
1:B:104:LEU:HD13	1:B:347:ALA:HB2	2.01	0.42
1:B:180:LEU:HD12	1:B:181:ALA:CA	2.50	0.42
1:D:105:LEU:HD11	1:D:123:MET:HG3	2.01	0.42
1:D:178:LEU:HG	1:D:180:LEU:H	1.84	0.42
1:D:357:ILE:CG2	1:D:358:THR:N	2.83	0.42
1:E:34:ILE:CG2	1:E:67:LEU:CB	2.96	0.42
1:E:34:ILE:HG23	1:E:67:LEU:HB3	2.02	0.42
1:E:167:GLU:OE1	1:G:64:ILE:HD13	2.19	0.42
1:F:105:LEU:HD11	1:F:123:MET:HG3	2.01	0.42
1:F:107:GLU:O	1:F:137:GLN:HG3	2.19	0.42
1:H:121:GLN:HG3	1:H:362:TYR:OH	2.20	0.42
1:H:167:GLU:OE1	1:J:61:LYS:HE2	2.20	0.42
1:K:34:ILE:CG2	1:K:67:LEU:CB	2.96	0.42
1:L:149:THR:HG23	1:L:150:GLY:N	2.34	0.42
1:L:178:LEU:HG	1:L:180:LEU:H	1.84	0.42
1:L:180:LEU:HD12	1:L:181:ALA:CA	2.49	0.42
1:M:121:GLN:HG3	1:M:362:TYR:OH	2.20	0.42
1:M:173:HIS:HE1	1:N:268:GLY:CA	2.28	0.42
1:M:357:ILE:CG2	1:M:358:THR:N	2.83	0.42
1:N:65:LEU:HD13	1:N:67:LEU:HD23	2.01	0.42
1:N:335:ARG:HA	1:N:335:ARG:HD3	1.39	0.42
1:P:121:GLN:HG3	1:P:362:TYR:OH	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Q:104:LEU:HD13	1:Q:347:ALA:HB2	2.01	0.42
1:Q:121:GLN:HG3	1:Q:362:TYR:OH	2.20	0.42
1:Q:180:LEU:HD12	1:Q:181:ALA:CA	2.50	0.42
1:R:8:LEU:CB	1:R:103:THR:HG23	2.48	0.42
1:R:300:SER:HA	1:R:335:ARG:CD	2.49	0.42
1:S:110:LEU:CD1	1:S:177:ARG:HH11	2.32	0.42
1:S:167:GLU:OE1	1:U:64:ILE:HD13	2.19	0.42
1:T:148:THR:CG2	1:T:149:THR:N	2.81	0.42
1:T:167:GLU:OE1	1:V:64:ILE:HD13	2.19	0.42
1:U:167:GLU:OE1	1:W:61:LYS:HE2	2.20	0.42
1:V:374:CYS:HB2	1:V:375:PHE:H	1.61	0.42
1:W:136:ILE:O	1:W:139:VAL:HB	2.19	0.42
1:A:72:GLU:O	1:A:183:ARG:NH2	2.52	0.42
1:B:64:ILE:CG2	1:B:65:LEU:N	2.81	0.42
1:C:106:THR:HG22	1:C:140:LEU:HD11	2.01	0.42
1:C:107:GLU:O	1:C:137:GLN:HG3	2.19	0.42
1:C:299:MET:O	1:C:332:PRO:HD2	2.18	0.42
1:D:362:TYR:CE1	1:D:367:PRO:CB	2.99	0.42
1:E:65:LEU:HD13	1:E:67:LEU:HD23	2.01	0.42
1:E:106:THR:HG22	1:E:140:LEU:HD11	2.01	0.42
1:F:110:LEU:CD1	1:F:177:ARG:HH11	2.32	0.42
1:G:73:HIC:HA	1:G:183:ARG:NH1	2.18	0.42
1:G:107:GLU:O	1:G:137:GLN:HG3	2.19	0.42
1:G:180:LEU:HD12	1:G:181:ALA:CA	2.50	0.42
1:I:349:LEU:HD23	1:I:349:LEU:HA	1.80	0.42
1:J:35:VAL:C	1:J:54:VAL:CG2	2.88	0.42
1:K:133:TYR:CE2	1:K:375:PHE:HB2	2.51	0.42
1:K:167:GLU:OE1	1:M:64:ILE:HD13	2.19	0.42
1:L:35:VAL:C	1:L:54:VAL:CG2	2.88	0.42
1:L:227:MET:HA	1:L:227:MET:HE3	2.01	0.42
1:M:34:ILE:HG23	1:M:67:LEU:HB3	2.02	0.42
1:M:104:LEU:HD13	1:M:347:ALA:HB2	2.01	0.42
1:O:35:VAL:C	1:O:54:VAL:CG2	2.88	0.42
1:O:167:GLU:OE1	1:Q:64:ILE:HD13	2.19	0.42
1:O:171:LEU:HA	1:O:172:PRO:HD3	1.79	0.42
1:P:65:LEU:HD13	1:P:67:LEU:HD23	2.01	0.42
1:Q:35:VAL:C	1:Q:54:VAL:CG2	2.88	0.42
1:Q:135:ALA:CB	1:Q:140:LEU:HD21	2.49	0.42
1:R:35:VAL:C	1:R:54:VAL:CG2	2.88	0.42
1:S:35:VAL:C	1:S:54:VAL:CG2	2.88	0.42
1:T:35:VAL:C	1:T:54:VAL:CG2	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:U:135:ALA:CB	1:U:140:LEU:HD21	2.49	0.42
1:U:148:THR:CG2	1:U:149:THR:N	2.81	0.42
1:V:121:GLN:HG3	1:V:362:TYR:OH	2.20	0.42
1:W:149:THR:HG23	1:W:150:GLY:N	2.34	0.42
1:A:178:LEU:HG	1:A:180:LEU:H	1.84	0.42
1:C:103:THR:O	1:C:132:MET:HA	2.20	0.42
1:C:180:LEU:O	1:C:180:LEU:HG	2.11	0.42
1:D:136:ILE:O	1:D:139:VAL:HB	2.19	0.42
1:E:140:LEU:HB3	1:E:343:GLY:N	2.35	0.42
1:F:44:MET:CG	1:F:45:VAL:H	2.18	0.42
1:G:34:ILE:HG23	1:G:67:LEU:HB3	2.02	0.42
1:G:236:LEU:CD1	1:G:237:GLU:CG	2.93	0.42
1:H:34:ILE:HG23	1:H:67:LEU:HB3	2.02	0.42
1:H:167:GLU:OE1	1:J:64:ILE:HD13	2.19	0.42
1:I:135:ALA:CB	1:I:140:LEU:HD21	2.49	0.42
1:I:236:LEU:HD11	1:I:237:GLU:HG2	1.96	0.42
1:K:65:LEU:HD13	1:K:67:LEU:HD23	2.01	0.42
1:L:103:THR:O	1:L:132:MET:HA	2.20	0.42
1:N:35:VAL:C	1:N:54:VAL:CG2	2.88	0.42
1:O:72:GLU:O	1:O:183:ARG:NH2	2.52	0.42
1:O:106:THR:HG22	1:O:140:LEU:HD11	2.01	0.42
1:O:107:GLU:O	1:O:137:GLN:HG3	2.19	0.42
1:O:180:LEU:HD12	1:O:181:ALA:CA	2.49	0.42
1:Q:107:GLU:O	1:Q:137:GLN:HG3	2.19	0.42
1:Q:136:ILE:O	1:Q:139:VAL:HB	2.19	0.42
1:Q:167:GLU:OE1	1:S:64:ILE:HD13	2.19	0.42
1:R:107:GLU:O	1:R:137:GLN:HG3	2.19	0.42
1:S:121:GLN:HG3	1:S:362:TYR:OH	2.20	0.42
1:S:167:GLU:OE1	1:U:61:LYS:HE2	2.20	0.42
1:T:69:TYR:CD2	1:T:69:TYR:N	2.86	0.42
1:U:34:ILE:CG2	1:U:67:LEU:CB	2.96	0.42
1:U:110:LEU:CD1	1:U:177:ARG:NH1	2.80	0.42
1:V:35:VAL:C	1:V:54:VAL:CG2	2.88	0.42
1:V:65:LEU:HD13	1:V:67:LEU:HD23	2.01	0.42
1:V:148:THR:CG2	1:V:149:THR:N	2.81	0.42
1:A:34:ILE:HG23	1:A:67:LEU:HB3	2.01	0.42
1:C:38:PRO:CG	1:C:49:GLN:NE2	2.79	0.42
1:D:180:LEU:HD12	1:D:181:ALA:CA	2.50	0.42
1:E:103:THR:O	1:E:132:MET:HA	2.20	0.42
1:G:135:ALA:CB	1:G:140:LEU:HD21	2.49	0.42
1:H:35:VAL:C	1:H:54:VAL:CG2	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:149:THR:HG23	1:J:150:GLY:N	2.34	0.42
1:J:167:GLU:OE1	1:L:61:LYS:HE2	2.20	0.42
1:K:167:GLU:OE1	1:M:61:LYS:HE2	2.20	0.42
1:M:69:TYR:CD2	1:M:69:TYR:N	2.87	0.42
1:N:103:THR:O	1:N:132:MET:HA	2.20	0.42
1:N:110:LEU:CD1	1:N:177:ARG:HH11	2.32	0.42
1:O:173:HIS:HE1	1:P:268:GLY:CA	2.28	0.42
1:P:149:THR:CG2	1:P:150:GLY:N	2.82	0.42
1:Q:140:LEU:HB3	1:Q:343:GLY:N	2.35	0.42
1:R:167:GLU:OE1	1:T:64:ILE:HD13	2.19	0.42
1:T:106:THR:HG22	1:T:140:LEU:HD11	2.01	0.42
1:U:35:VAL:C	1:U:54:VAL:CG2	2.88	0.42
1:V:103:THR:O	1:V:132:MET:HA	2.20	0.42
1:V:183:ARG:HE	1:V:183:ARG:HB3	1.59	0.42
1:V:357:ILE:CG2	1:V:358:THR:N	2.83	0.42
1:W:72:GLU:O	1:W:183:ARG:NH2	2.52	0.42
1:A:73:HIC:HA	1:A:183:ARG:NH1	2.18	0.41
1:A:103:THR:O	1:A:132:MET:HA	2.20	0.41
1:A:135:ALA:CB	1:A:140:LEU:HD21	2.49	0.41
1:A:349:LEU:HD23	1:A:349:LEU:HA	1.80	0.41
1:B:135:ALA:CB	1:B:140:LEU:HD21	2.49	0.41
1:B:140:LEU:HB3	1:B:343:GLY:N	2.35	0.41
1:C:65:LEU:HD13	1:C:67:LEU:HD23	2.01	0.41
1:C:135:ALA:CB	1:C:140:LEU:HD21	2.50	0.41
1:D:72:GLU:O	1:D:183:ARG:NH2	2.52	0.41
1:D:133:TYR:CE2	1:D:375:PHE:HB2	2.51	0.41
1:F:173:HIS:HE1	1:G:268:GLY:CA	2.28	0.41
1:G:106:THR:HG22	1:G:140:LEU:HD11	2.01	0.41
1:G:140:LEU:HB3	1:G:343:GLY:N	2.35	0.41
1:H:121:GLN:HA	1:H:362:TYR:CZ	2.55	0.41
1:H:173:HIS:HE1	1:I:268:GLY:CA	2.28	0.41
1:H:299:MET:O	1:H:332:PRO:HD2	2.18	0.41
1:J:103:THR:O	1:J:132:MET:HA	2.20	0.41
1:J:180:LEU:HD12	1:J:181:ALA:CA	2.50	0.41
1:K:107:GLU:O	1:K:137:GLN:HG3	2.19	0.41
1:L:65:LEU:HD13	1:L:67:LEU:HD23	2.01	0.41
1:L:72:GLU:O	1:L:183:ARG:NH2	2.52	0.41
1:M:34:ILE:CG2	1:M:67:LEU:CB	2.96	0.41
1:M:107:GLU:O	1:M:137:GLN:HG3	2.19	0.41
1:N:34:ILE:HD13	1:N:67:LEU:CD2	2.46	0.41
1:O:2:GLU:HB3	1:O:3:ASP:H	1.66	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:103:THR:O	1:O:132:MET:HA	2.20	0.41
1:P:35:VAL:C	1:P:54:VAL:CG2	2.88	0.41
1:P:178:LEU:HG	1:P:180:LEU:H	1.84	0.41
1:Q:103:THR:O	1:Q:132:MET:HA	2.20	0.41
1:Q:121:GLN:HA	1:Q:362:TYR:CZ	2.55	0.41
1:R:103:THR:O	1:R:132:MET:HA	2.20	0.41
1:T:208:ILE:CG2	1:T:209:VAL:N	2.83	0.41
1:W:121:GLN:HA	1:W:362:TYR:CZ	2.55	0.41
1:A:38:PRO:CG	1:A:49:GLN:NE2	2.79	0.41
1:A:149:THR:HG23	1:A:150:GLY:N	2.34	0.41
1:B:106:THR:HG22	1:B:140:LEU:HD11	2.01	0.41
1:B:121:GLN:HA	1:B:362:TYR:CZ	2.55	0.41
1:C:39:ARG:NE	1:C:66:THR:CA	2.69	0.41
1:C:121:GLN:HG3	1:C:362:TYR:OH	2.20	0.41
1:C:140:LEU:HB3	1:C:343:GLY:N	2.36	0.41
1:D:180:LEU:CD1	1:D:181:ALA:N	2.78	0.41
1:E:189:LEU:HA	1:E:192:ILE:HG12	2.02	0.41
1:F:135:ALA:CB	1:F:140:LEU:HD21	2.49	0.41
1:F:180:LEU:HD12	1:F:181:ALA:CA	2.49	0.41
1:G:103:THR:O	1:G:132:MET:HA	2.20	0.41
1:H:140:LEU:HB3	1:H:343:GLY:N	2.35	0.41
1:I:180:LEU:HD12	1:I:181:ALA:CA	2.50	0.41
1:J:140:LEU:HB3	1:J:343:GLY:N	2.35	0.41
1:K:135:ALA:CB	1:K:140:LEU:HD21	2.49	0.41
1:L:47:MET:HB3	1:L:48:GLY:H	1.61	0.41
1:M:8:LEU:CB	1:M:103:THR:HG23	2.48	0.41
1:M:35:VAL:C	1:M:54:VAL:CG2	2.88	0.41
1:M:103:THR:O	1:M:132:MET:HA	2.20	0.41
1:M:140:LEU:HB3	1:M:343:GLY:N	2.35	0.41
1:M:180:LEU:HD12	1:M:181:ALA:CA	2.50	0.41
1:P:34:ILE:HG23	1:P:67:LEU:HB3	2.02	0.41
1:R:65:LEU:HD13	1:R:67:LEU:HD23	2.01	0.41
1:R:121:GLN:HA	1:R:362:TYR:CZ	2.55	0.41
1:S:140:LEU:HB3	1:S:343:GLY:N	2.35	0.41
1:S:173:HIS:HE1	1:T:268:GLY:CA	2.28	0.41
1:T:121:GLN:HA	1:T:362:TYR:CZ	2.56	0.41
1:U:39:ARG:NE	1:U:66:THR:CA	2.69	0.41
1:U:180:LEU:CD1	1:U:181:ALA:N	2.78	0.41
1:V:121:GLN:HA	1:V:362:TYR:CZ	2.55	0.41
1:V:357:ILE:HD12	1:V:357:ILE:HA	1.79	0.41
1:V:362:TYR:CE1	1:V:367:PRO:CB	2.99	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:106:THR:HG22	1:W:140:LEU:HD11	2.01	0.41
1:W:180:LEU:CD1	1:W:181:ALA:N	2.78	0.41
1:A:140:LEU:HB3	1:A:343:GLY:N	2.35	0.41
1:A:167:GLU:OE1	1:C:64:ILE:HD13	2.19	0.41
1:C:64:ILE:CG2	1:C:65:LEU:N	2.81	0.41
1:C:167:GLU:OE1	1:E:64:ILE:HD13	2.19	0.41
1:D:173:HIS:HE1	1:E:268:GLY:CA	2.28	0.41
1:E:135:ALA:CB	1:E:140:LEU:HD21	2.49	0.41
1:E:357:ILE:CG2	1:E:358:THR:N	2.82	0.41
1:F:35:VAL:C	1:F:54:VAL:CG2	2.88	0.41
1:F:140:LEU:HB3	1:F:343:GLY:N	2.35	0.41
1:H:103:THR:O	1:H:132:MET:HA	2.20	0.41
1:I:65:LEU:HD13	1:I:67:LEU:HD23	2.01	0.41
1:I:208:ILE:CG2	1:I:209:VAL:N	2.83	0.41
1:J:34:ILE:CG2	1:J:67:LEU:CB	2.96	0.41
1:K:35:VAL:C	1:K:54:VAL:CG2	2.88	0.41
1:K:110:LEU:CD1	1:K:177:ARG:HH11	2.32	0.41
1:K:140:LEU:HB3	1:K:343:GLY:N	2.35	0.41
1:L:106:THR:HG22	1:L:140:LEU:HD11	2.01	0.41
1:L:140:LEU:HB3	1:L:343:GLY:N	2.35	0.41
1:L:167:GLU:OE1	1:N:61:LYS:HE2	2.20	0.41
1:N:121:GLN:HG3	1:N:362:TYR:OH	2.20	0.41
1:N:167:GLU:OE1	1:P:61:LYS:HE2	2.19	0.41
1:N:357:ILE:CG2	1:N:358:THR:N	2.82	0.41
1:O:149:THR:CG2	1:O:150:GLY:N	2.82	0.41
1:O:180:LEU:CD1	1:O:181:ALA:N	2.78	0.41
1:P:103:THR:O	1:P:132:MET:HA	2.20	0.41
1:P:121:GLN:HA	1:P:362:TYR:CZ	2.55	0.41
1:Q:180:LEU:CD1	1:Q:181:ALA:N	2.78	0.41
1:Q:335:ARG:O	1:Q:338:SER:CB	2.69	0.41
1:R:189:LEU:HA	1:R:192:ILE:HG12	2.03	0.41
1:S:180:LEU:CD1	1:S:181:ALA:N	2.78	0.41
1:U:299:MET:HE1	1:U:309:ILE:HD13	2.02	0.41
1:V:106:THR:HG22	1:V:140:LEU:HD11	2.01	0.41
1:V:140:LEU:HB3	1:V:343:GLY:N	2.35	0.41
1:V:173:HIS:HE1	1:W:268:GLY:CA	2.28	0.41
1:W:35:VAL:C	1:W:54:VAL:CG2	2.88	0.41
1:A:47:MET:HB3	1:A:48:GLY:H	1.61	0.41
1:A:149:THR:CG2	1:A:150:GLY:N	2.82	0.41
1:A:300:SER:HA	1:A:335:ARG:CD	2.50	0.41
1:B:39:ARG:NE	1:B:66:THR:CA	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:335:ARG:O	1:B:338:SER:CB	2.69	0.41
1:H:72:GLU:O	1:H:183:ARG:NH2	2.52	0.41
1:H:300:SER:HA	1:H:335:ARG:CD	2.50	0.41
1:I:35:VAL:C	1:I:54:VAL:CG2	2.88	0.41
1:I:103:THR:O	1:I:132:MET:HA	2.20	0.41
1:I:106:THR:HG22	1:I:140:LEU:HD11	2.01	0.41
1:I:107:GLU:O	1:I:137:GLN:HG3	2.19	0.41
1:I:140:LEU:HB3	1:I:343:GLY:N	2.35	0.41
1:J:47:MET:HB3	1:J:48:GLY:H	1.61	0.41
1:K:73:HIC:HA	1:K:183:ARG:NH1	2.18	0.41
1:K:171:LEU:HA	1:K:172:PRO:HD3	1.79	0.41
1:K:180:LEU:HD12	1:K:181:ALA:CA	2.49	0.41
1:M:106:THR:HG22	1:M:140:LEU:HD11	2.01	0.41
1:N:349:LEU:HD23	1:N:349:LEU:HA	1.80	0.41
1:O:135:ALA:CB	1:O:140:LEU:HD21	2.49	0.41
1:T:149:THR:CG2	1:T:150:GLY:N	2.82	0.41
1:T:189:LEU:HA	1:T:192:ILE:HG12	2.03	0.41
1:T:300:SER:HA	1:T:335:ARG:CD	2.50	0.41
1:U:335:ARG:O	1:U:338:SER:CB	2.69	0.41
1:V:135:ALA:CB	1:V:140:LEU:HD21	2.49	0.41
1:W:44:MET:CG	1:W:45:VAL:N	2.75	0.41
1:W:110:LEU:CD1	1:W:177:ARG:NH1	2.80	0.41
1:A:106:THR:HG22	1:A:140:LEU:HD11	2.01	0.41
1:A:121:GLN:HG3	1:A:362:TYR:OH	2.20	0.41
1:A:189:LEU:HA	1:A:192:ILE:HG12	2.02	0.41
1:B:2:GLU:HB3	1:B:3:ASP:H	1.66	0.41
1:C:110:LEU:CD1	1:C:177:ARG:HH11	2.32	0.41
1:D:39:ARG:NE	1:D:66:THR:CA	2.69	0.41
1:E:167:GLU:CD	1:G:61:LYS:CE	2.85	0.41
1:F:34:ILE:HG23	1:F:67:LEU:HB3	2.01	0.41
1:F:335:ARG:O	1:F:338:SER:CB	2.69	0.41
1:G:35:VAL:C	1:G:54:VAL:CG2	2.88	0.41
1:H:224:GLU:OE1	1:H:224:GLU:N	2.51	0.41
1:I:34:ILE:HG23	1:I:67:LEU:HB3	2.01	0.41
1:J:149:THR:CG2	1:J:150:GLY:N	2.82	0.41
1:M:167:GLU:OE1	1:O:61:LYS:HE2	2.20	0.41
1:M:236:LEU:HD12	1:M:237:GLU:CA	2.51	0.41
1:O:183:ARG:HE	1:O:183:ARG:HB3	1.58	0.41
1:P:167:GLU:CD	1:R:61:LYS:CE	2.85	0.41
1:P:167:GLU:OE1	1:R:64:ILE:HD13	2.19	0.41
1:P:189:LEU:HA	1:P:192:ILE:HG12	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:335:ARG:HA	1:P:335:ARG:HD3	1.39	0.41
1:Q:8:LEU:N	1:Q:102:PRO:O	2.48	0.41
1:S:103:THR:O	1:S:132:MET:HA	2.20	0.41
1:T:103:THR:O	1:T:132:MET:HA	2.20	0.41
1:T:140:LEU:HB3	1:T:343:GLY:N	2.35	0.41
1:T:153:LEU:HD23	1:T:299:MET:HE2	2.03	0.41
1:U:103:THR:O	1:U:132:MET:HA	2.20	0.41
1:U:121:GLN:HG3	1:U:362:TYR:OH	2.20	0.41
1:W:8:LEU:N	1:W:102:PRO:O	2.48	0.41
1:W:135:ALA:CB	1:W:140:LEU:HD21	2.49	0.41
1:W:140:LEU:HB3	1:W:343:GLY:N	2.35	0.41
1:W:236:LEU:HD12	1:W:237:GLU:CA	2.51	0.41
1:A:133:TYR:CE2	1:A:375:PHE:HB2	2.51	0.41
1:B:236:LEU:HD12	1:B:237:GLU:CA	2.51	0.41
1:C:189:LEU:HA	1:C:192:ILE:HG12	2.03	0.41
1:D:35:VAL:C	1:D:54:VAL:CG2	2.88	0.41
1:D:121:GLN:HA	1:D:362:TYR:CZ	2.55	0.41
1:D:140:LEU:HB3	1:D:343:GLY:N	2.35	0.41
1:E:38:PRO:CG	1:E:49:GLN:NE2	2.79	0.41
1:E:49:GLN:HG3	1:E:50:LYS:N	2.20	0.41
1:F:224:GLU:OE1	1:F:224:GLU:N	2.51	0.41
1:F:236:LEU:HD12	1:F:237:GLU:CA	2.51	0.41
1:G:189:LEU:HA	1:G:192:ILE:HG12	2.03	0.41
1:G:357:ILE:CG2	1:G:358:THR:N	2.82	0.41
1:H:149:THR:CG2	1:H:150:GLY:N	2.82	0.41
1:H:180:LEU:HD12	1:H:181:ALA:CA	2.50	0.41
1:H:299:MET:HE1	1:H:309:ILE:HD13	2.03	0.41
1:H:335:ARG:O	1:H:338:SER:CB	2.69	0.41
1:H:349:LEU:HD23	1:H:349:LEU:HA	1.80	0.41
1:J:121:GLN:HA	1:J:362:TYR:CZ	2.55	0.41
1:J:121:GLN:HG3	1:J:362:TYR:OH	2.20	0.41
1:J:335:ARG:O	1:J:338:SER:CB	2.69	0.41
1:K:34:ILE:HG23	1:K:67:LEU:HB3	2.02	0.41
1:K:103:THR:O	1:K:132:MET:HA	2.20	0.41
1:K:374:CYS:HB2	1:K:375:PHE:H	1.62	0.41
1:L:189:LEU:HA	1:L:192:ILE:HG12	2.02	0.41
1:L:236:LEU:HD12	1:L:237:GLU:CA	2.51	0.41
1:N:189:LEU:HA	1:N:192:ILE:HG12	2.02	0.41
1:P:167:GLU:OE1	1:R:61:LYS:HE2	2.20	0.41
1:Q:31:PHE:HA	1:Q:32:PRO:HD3	1.66	0.41
1:Q:236:LEU:HD12	1:Q:237:GLU:CA	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:8:LEU:N	1:S:102:PRO:O	2.48	0.41
1:S:72:GLU:O	1:S:183:ARG:NH2	2.52	0.41
1:T:34:ILE:HG23	1:T:67:LEU:HB3	2.02	0.41
1:T:110:LEU:CD1	1:T:177:ARG:HH11	2.32	0.41
1:T:357:ILE:CG2	1:T:358:THR:N	2.83	0.41
1:V:178:LEU:HG	1:V:180:LEU:H	1.84	0.41
1:V:349:LEU:HD23	1:V:349:LEU:HA	1.80	0.41
1:A:35:VAL:C	1:A:54:VAL:CG2	2.88	0.41
1:A:110:LEU:CD1	1:A:177:ARG:HH11	2.32	0.41
1:A:121:GLN:HA	1:A:362:TYR:CZ	2.55	0.41
1:B:35:VAL:C	1:B:54:VAL:CG2	2.88	0.41
1:B:110:LEU:CD1	1:B:177:ARG:HH11	2.32	0.41
1:C:31:PHE:HA	1:C:32:PRO:HD3	1.66	0.41
1:E:35:VAL:C	1:E:54:VAL:CG2	2.88	0.41
1:F:110:LEU:CD1	1:F:177:ARG:NH1	2.80	0.41
1:G:236:LEU:HD12	1:G:237:GLU:CA	2.51	0.41
1:I:299:MET:HE1	1:I:309:ILE:HD13	2.03	0.41
1:I:335:ARG:O	1:I:338:SER:CB	2.69	0.41
1:J:227:MET:HE3	1:J:227:MET:HA	2.02	0.41
1:K:106:THR:HG22	1:K:140:LEU:HD11	2.01	0.41
1:L:335:ARG:O	1:L:338:SER:CB	2.69	0.41
1:M:135:ALA:CB	1:M:140:LEU:HD21	2.49	0.41
1:N:121:GLN:HA	1:N:362:TYR:CZ	2.55	0.41
1:N:140:LEU:HB3	1:N:343:GLY:N	2.35	0.41
1:N:335:ARG:O	1:N:338:SER:CB	2.69	0.41
1:O:34:ILE:CG2	1:O:67:LEU:CB	2.96	0.41
1:P:73:HIC:HA	1:P:183:ARG:NH1	2.18	0.41
1:P:374:CYS:HB2	1:P:375:PHE:H	1.62	0.41
1:R:236:LEU:HD12	1:R:237:GLU:CA	2.51	0.41
1:W:110:LEU:CD1	1:W:177:ARG:HH11	2.32	0.41
1:C:287:ILE:HD12	1:E:208:ILE:HD13	1.96	0.41
1:E:73:HIC:HA	1:E:183:ARG:NH1	2.18	0.41
1:F:103:THR:O	1:F:132:MET:HA	2.20	0.41
1:F:121:GLN:HA	1:F:362:TYR:CZ	2.55	0.41
1:F:180:LEU:CD1	1:F:181:ALA:N	2.78	0.41
1:G:8:LEU:CD1	1:G:90:PHE:CD1	3.04	0.41
1:G:110:LEU:CD1	1:G:177:ARG:HH11	2.32	0.41
1:H:49:GLN:HG3	1:H:50:LYS:N	2.20	0.41
1:H:180:LEU:CD1	1:H:181:ALA:N	2.78	0.41
1:I:236:LEU:HD12	1:I:237:GLU:CA	2.51	0.41
1:J:8:LEU:N	1:J:102:PRO:O	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:110:LEU:CD1	1:L:177:ARG:HH11	2.32	0.41
1:M:178:LEU:HG	1:M:180:LEU:H	1.84	0.41
1:O:121:GLN:HA	1:O:362:TYR:CZ	2.55	0.41
1:P:335:ARG:O	1:P:338:SER:CB	2.69	0.41
1:R:110:LEU:CD1	1:R:177:ARG:HH11	2.32	0.41
1:S:121:GLN:HA	1:S:362:TYR:CZ	2.56	0.41
1:S:236:LEU:HD12	1:S:237:GLU:CA	2.51	0.41
1:T:2:GLU:HB3	1:T:3:ASP:H	1.66	0.41
1:U:121:GLN:HA	1:U:362:TYR:CZ	2.56	0.41
1:U:357:ILE:CG2	1:U:358:THR:N	2.83	0.41
1:V:110:LEU:CD1	1:V:177:ARG:HH11	2.32	0.41
1:W:164:PRO:CG	1:W:174:ALA:HB3	2.51	0.41
1:A:43:VAL:O	1:A:44:MET:CE	2.69	0.41
1:A:236:LEU:HD12	1:A:237:GLU:CA	2.51	0.41
1:C:35:VAL:C	1:C:54:VAL:CG2	2.88	0.41
1:C:224:GLU:OE1	1:C:224:GLU:N	2.51	0.41
1:C:335:ARG:O	1:C:338:SER:CB	2.69	0.41
1:D:34:ILE:HG23	1:D:67:LEU:HB3	2.01	0.41
1:D:103:THR:O	1:D:132:MET:HA	2.20	0.41
1:D:335:ARG:O	1:D:338:SER:CB	2.69	0.41
1:E:43:VAL:O	1:E:44:MET:CE	2.69	0.41
1:E:335:ARG:O	1:E:338:SER:CB	2.69	0.41
1:F:43:VAL:O	1:F:44:MET:CE	2.69	0.41
1:F:133:TYR:CE2	1:F:375:PHE:HB2	2.51	0.41
1:G:164:PRO:HG2	1:G:174:ALA:CB	2.51	0.41
1:G:178:LEU:HG	1:G:180:LEU:H	1.85	0.41
1:H:8:LEU:N	1:H:102:PRO:O	2.48	0.41
1:H:43:VAL:O	1:H:44:MET:CE	2.69	0.41
1:H:236:LEU:HD12	1:H:237:GLU:CA	2.51	0.41
1:I:8:LEU:CD1	1:I:90:PHE:CD1	3.04	0.41
1:I:34:ILE:CG2	1:I:68:LYS:N	2.84	0.41
1:J:43:VAL:O	1:J:44:MET:CE	2.69	0.41
1:J:183:ARG:HE	1:J:183:ARG:HB3	1.58	0.41
1:J:236:LEU:HD12	1:J:237:GLU:CA	2.51	0.41
1:K:34:ILE:CG2	1:K:68:LYS:N	2.84	0.41
1:K:121:GLN:HA	1:K:362:TYR:CZ	2.55	0.41
1:K:335:ARG:O	1:K:338:SER:CB	2.69	0.41
1:L:43:VAL:O	1:L:44:MET:CE	2.69	0.41
1:L:121:GLN:HG3	1:L:362:TYR:OH	2.20	0.41
1:L:332:PRO:HA	1:L:333:PRO:HD3	1.95	0.41
1:M:34:ILE:CG2	1:M:68:LYS:N	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:110:LEU:CD1	1:M:177:ARG:HH11	2.32	0.41
1:N:43:VAL:O	1:N:44:MET:CE	2.69	0.41
1:N:164:PRO:HG2	1:N:174:ALA:CB	2.51	0.41
1:O:167:GLU:OE1	1:Q:61:LYS:HE2	2.20	0.41
1:O:335:ARG:O	1:O:338:SER:CB	2.69	0.41
1:O:357:ILE:CG2	1:O:358:THR:N	2.83	0.41
1:P:43:VAL:O	1:P:44:MET:CE	2.69	0.41
1:P:164:PRO:HG2	1:P:174:ALA:CB	2.51	0.41
1:P:299:MET:HE1	1:P:304:THR:HB	2.03	0.41
1:Q:8:LEU:CD1	1:Q:90:PHE:CD1	3.04	0.41
1:Q:34:ILE:CG2	1:Q:67:LEU:CB	2.96	0.41
1:R:8:LEU:CD1	1:R:90:PHE:CD1	3.04	0.41
1:R:43:VAL:O	1:R:44:MET:CE	2.69	0.41
1:R:140:LEU:HB3	1:R:343:GLY:N	2.35	0.41
1:R:167:GLU:OE1	1:T:61:LYS:HE2	2.20	0.41
1:S:164:PRO:HG2	1:S:174:ALA:CB	2.51	0.41
1:S:335:ARG:O	1:S:338:SER:CB	2.69	0.41
1:T:43:VAL:O	1:T:44:MET:CE	2.69	0.41
1:T:135:ALA:CB	1:T:140:LEU:HD21	2.49	0.41
1:T:236:LEU:HD12	1:T:237:GLU:CA	2.51	0.41
1:T:335:ARG:O	1:T:338:SER:CB	2.69	0.41
1:U:43:VAL:O	1:U:44:MET:CE	2.69	0.41
1:U:140:LEU:HB3	1:U:343:GLY:N	2.35	0.41
1:U:164:PRO:HG2	1:U:174:ALA:CB	2.51	0.41
1:U:164:PRO:CG	1:U:174:ALA:HB3	2.51	0.41
1:U:169:TYR:CE2	1:W:40:HIS:HB2	2.56	0.41
1:U:171:LEU:HA	1:U:172:PRO:HD3	1.79	0.41
1:U:173:HIS:HE1	1:V:268:GLY:CA	2.28	0.41
1:U:236:LEU:HD12	1:U:237:GLU:CA	2.51	0.41
1:V:34:ILE:CG2	1:V:67:LEU:CB	2.96	0.41
1:V:189:LEU:HA	1:V:192:ILE:HG12	2.02	0.41
1:W:43:VAL:O	1:W:44:MET:CE	2.69	0.41
1:W:103:THR:O	1:W:132:MET:HA	2.20	0.41
1:W:121:GLN:HG3	1:W:362:TYR:OH	2.20	0.41
1:W:149:THR:CG2	1:W:150:GLY:N	2.82	0.41
1:W:164:PRO:HG2	1:W:174:ALA:CB	2.51	0.41
1:W:223:PHE:CZ	1:W:266:PHE:CZ	3.09	0.41
1:W:335:ARG:O	1:W:338:SER:CB	2.69	0.41
1:D:43:VAL:O	1:D:44:MET:CE	2.69	0.41
1:D:110:LEU:CD1	1:D:177:ARG:NH1	2.80	0.41
1:D:153:LEU:HD23	1:D:299:MET:HE2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:164:PRO:HG2	1:D:174:ALA:CB	2.51	0.41
1:D:224:GLU:OE1	1:D:224:GLU:N	2.51	0.41
1:E:31:PHE:HA	1:E:32:PRO:HD3	1.65	0.41
1:E:50:LYS:CG	1:E:53:TYR:CE2	3.03	0.41
1:E:149:THR:CG2	1:E:150:GLY:N	2.82	0.41
1:F:357:ILE:CG2	1:F:358:THR:N	2.82	0.41
1:G:43:VAL:O	1:G:44:MET:CE	2.69	0.41
1:I:164:PRO:HG2	1:I:174:ALA:CB	2.51	0.41
1:I:189:LEU:HA	1:I:192:ILE:HG12	2.02	0.41
1:J:189:LEU:HA	1:J:192:ILE:HG12	2.03	0.41
1:K:335:ARG:HA	1:K:335:ARG:HD3	1.39	0.41
1:M:121:GLN:HA	1:M:362:TYR:CZ	2.55	0.41
1:M:171:LEU:HA	1:M:172:PRO:HD3	1.79	0.41
1:N:47:MET:HB3	1:N:48:GLY:H	1.61	0.41
1:N:224:GLU:OE1	1:N:224:GLU:N	2.51	0.41
1:O:34:ILE:CG2	1:O:68:LYS:N	2.84	0.41
1:O:143:TYR:CE2	1:Q:45:VAL:CG2	3.04	0.41
1:Q:227:MET:HE3	1:Q:227:MET:HA	2.03	0.41
1:R:34:ILE:HG23	1:R:67:LEU:HB3	2.02	0.41
1:R:50:LYS:CG	1:R:53:TYR:CE2	3.03	0.41
1:S:149:THR:CG2	1:S:150:GLY:N	2.82	0.41
1:A:164:PRO:CG	1:A:174:ALA:HB3	2.51	0.40
1:A:335:ARG:HD3	1:A:335:ARG:HA	1.39	0.40
1:A:357:ILE:CG2	1:A:358:THR:N	2.83	0.40
1:B:34:ILE:CG2	1:B:68:LYS:N	2.84	0.40
1:D:50:LYS:CG	1:D:53:TYR:CE2	3.03	0.40
1:D:135:ALA:CB	1:D:140:LEU:HD21	2.49	0.40
1:D:164:PRO:CG	1:D:174:ALA:HB3	2.51	0.40
1:D:167:GLU:OE1	1:F:64:ILE:HD13	2.19	0.40
1:D:374:CYS:HB2	1:D:375:PHE:H	1.61	0.40
1:E:2:GLU:HB3	1:E:3:ASP:H	1.66	0.40
1:E:110:LEU:CD1	1:E:177:ARG:HH11	2.32	0.40
1:F:39:ARG:NE	1:F:66:THR:CA	2.69	0.40
1:F:164:PRO:CG	1:F:174:ALA:HB3	2.51	0.40
1:G:34:ILE:CG2	1:G:68:LYS:N	2.84	0.40
1:I:121:GLN:HA	1:I:362:TYR:CZ	2.56	0.40
1:J:332:PRO:HA	1:J:333:PRO:HD3	1.95	0.40
1:K:236:LEU:HD12	1:K:237:GLU:CA	2.51	0.40
1:M:335:ARG:O	1:M:338:SER:CB	2.69	0.40
1:N:143:TYR:CE2	1:P:45:VAL:CG2	3.04	0.40
1:N:223:PHE:CZ	1:N:266:PHE:CZ	3.09	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:287:ILE:HD12	1:P:208:ILE:HD13	1.96	0.40
1:O:8:LEU:CD1	1:O:90:PHE:CD1	3.04	0.40
1:O:142:LEU:CD1	1:O:165:ILE:HD11	2.47	0.40
1:P:38:PRO:CG	1:P:49:GLN:NE2	2.79	0.40
1:P:143:TYR:CE2	1:R:45:VAL:CG2	3.04	0.40
1:P:164:PRO:CG	1:P:174:ALA:HB3	2.51	0.40
1:P:357:ILE:CG2	1:P:358:THR:N	2.82	0.40
1:Q:50:LYS:CG	1:Q:53:TYR:CE2	3.03	0.40
1:R:164:PRO:HG2	1:R:174:ALA:CB	2.51	0.40
1:R:164:PRO:CG	1:R:174:ALA:HB3	2.51	0.40
1:S:164:PRO:CG	1:S:174:ALA:HB3	2.51	0.40
1:S:374:CYS:HB2	1:S:375:PHE:H	1.62	0.40
1:T:236:LEU:CD1	1:T:237:GLU:CG	2.93	0.40
1:T:362:TYR:CE1	1:T:367:PRO:CB	2.99	0.40
1:U:223:PHE:CZ	1:U:266:PHE:CZ	3.09	0.40
1:V:335:ARG:O	1:V:338:SER:CB	2.69	0.40
1:B:103:THR:O	1:B:132:MET:HA	2.20	0.40
1:B:164:PRO:HG2	1:B:174:ALA:CB	2.51	0.40
1:B:175:ILE:H	1:B:175:ILE:HG13	1.71	0.40
1:C:43:VAL:O	1:C:44:MET:CE	2.69	0.40
1:D:34:ILE:CG2	1:D:68:LYS:N	2.84	0.40
1:D:113:LYS:HB3	1:D:371:HIS:CD2	2.57	0.40
1:E:164:PRO:HG2	1:E:174:ALA:CB	2.51	0.40
1:F:8:LEU:CD1	1:F:90:PHE:CD1	3.04	0.40
1:F:8:LEU:N	1:F:102:PRO:O	2.48	0.40
1:F:164:PRO:HG2	1:F:174:ALA:CB	2.51	0.40
1:H:374:CYS:HB2	1:H:375:PHE:H	1.62	0.40
1:I:236:LEU:CD1	1:I:237:GLU:CG	2.93	0.40
1:L:31:PHE:HA	1:L:32:PRO:HD3	1.66	0.40
1:L:164:PRO:HG2	1:L:174:ALA:CB	2.51	0.40
1:M:133:TYR:CE2	1:M:375:PHE:HB2	2.51	0.40
1:N:164:PRO:CG	1:N:174:ALA:HB3	2.51	0.40
1:N:180:LEU:O	1:N:180:LEU:HG	2.11	0.40
1:O:8:LEU:CB	1:O:103:THR:HG23	2.48	0.40
1:Q:143:TYR:CE2	1:S:45:VAL:CG2	3.04	0.40
1:R:38:PRO:CG	1:R:49:GLN:NE2	2.79	0.40
1:R:143:TYR:CE2	1:T:45:VAL:CG2	3.04	0.40
1:S:223:PHE:CZ	1:S:266:PHE:CZ	3.09	0.40
1:V:43:VAL:O	1:V:44:MET:CE	2.69	0.40
1:V:133:TYR:CE2	1:V:375:PHE:HB2	2.51	0.40
1:V:236:LEU:HD12	1:V:237:GLU:CA	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:300:SER:HA	1:V:335:ARG:CD	2.50	0.40
1:W:189:LEU:HA	1:W:192:ILE:HG12	2.03	0.40
1:B:8:LEU:CD1	1:B:90:PHE:CD1	3.04	0.40
1:B:143:TYR:CE2	1:D:45:VAL:CG2	3.04	0.40
1:B:171:LEU:HA	1:B:172:PRO:HD3	1.79	0.40
1:C:121:GLN:HA	1:C:362:TYR:CZ	2.55	0.40
1:C:173:HIS:CE1	1:D:268:GLY:N	2.90	0.40
1:C:300:SER:HA	1:C:335:ARG:CD	2.50	0.40
1:G:164:PRO:CG	1:G:174:ALA:HB3	2.51	0.40
1:I:113:LYS:HB3	1:I:371:HIS:CD2	2.57	0.40
1:J:300:SER:HA	1:J:335:ARG:CD	2.50	0.40
1:K:8:LEU:CD1	1:K:90:PHE:CD1	3.04	0.40
1:K:357:ILE:HD12	1:K:357:ILE:HA	1.79	0.40
1:L:121:GLN:HA	1:L:362:TYR:CZ	2.55	0.40
1:M:236:LEU:CD1	1:M:237:GLU:CG	2.93	0.40
1:N:38:PRO:CG	1:N:49:GLN:NE2	2.79	0.40
1:O:43:VAL:O	1:O:44:MET:CE	2.69	0.40
1:O:140:LEU:HB3	1:O:343:GLY:N	2.35	0.40
1:O:189:LEU:HA	1:O:192:ILE:HG12	2.02	0.40
1:P:65:LEU:C	1:P:65:LEU:CD1	2.90	0.40
1:P:140:LEU:HB3	1:P:343:GLY:N	2.35	0.40
1:Q:34:ILE:CG2	1:Q:68:LYS:N	2.84	0.40
1:Q:43:VAL:O	1:Q:44:MET:CE	2.69	0.40
1:Q:189:LEU:HA	1:Q:192:ILE:HG12	2.02	0.40
1:Q:223:PHE:CZ	1:Q:266:PHE:CZ	3.09	0.40
1:T:8:LEU:CD1	1:T:90:PHE:CD1	3.04	0.40
1:T:113:LYS:HB3	1:T:371:HIS:CD2	2.57	0.40
1:T:143:TYR:CE2	1:V:45:VAL:CG2	3.04	0.40
1:A:143:TYR:CE2	1:C:45:VAL:CG2	3.04	0.40
1:A:332:PRO:HA	1:A:333:PRO:HD3	1.95	0.40
1:B:183:ARG:HE	1:B:183:ARG:HB3	1.58	0.40
1:B:224:GLU:OE1	1:B:224:GLU:N	2.51	0.40
1:B:335:ARG:HA	1:B:335:ARG:HD3	1.39	0.40
1:C:73:HIC:HA	1:C:183:ARG:NH1	2.18	0.40
1:C:143:TYR:CE2	1:E:45:VAL:CG2	3.04	0.40
1:D:157:ASP:H	2:D:401:ADP:PB	2.45	0.40
1:D:173:HIS:CE1	1:E:268:GLY:N	2.90	0.40
1:E:8:LEU:CD1	1:E:90:PHE:CD1	3.04	0.40
1:E:8:LEU:N	1:E:102:PRO:O	2.48	0.40
1:E:34:ILE:CG2	1:E:68:LYS:N	2.84	0.40
1:E:121:GLN:HA	1:E:362:TYR:CZ	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:173:HIS:CE1	1:F:268:GLY:N	2.90	0.40
1:F:34:ILE:CG2	1:F:67:LEU:CB	2.96	0.40
1:F:65:LEU:C	1:F:65:LEU:CD1	2.90	0.40
1:F:149:THR:CG2	1:F:150:GLY:N	2.82	0.40
1:F:173:HIS:CE1	1:G:268:GLY:N	2.90	0.40
1:G:121:GLN:HA	1:G:362:TYR:CZ	2.55	0.40
1:H:34:ILE:CG2	1:H:67:LEU:CB	2.96	0.40
1:H:110:LEU:CD1	1:H:177:ARG:NH1	2.80	0.40
1:H:164:PRO:CG	1:H:174:ALA:HB3	2.51	0.40
1:J:164:PRO:CG	1:J:174:ALA:HB3	2.51	0.40
1:K:164:PRO:HG2	1:K:174:ALA:CB	2.51	0.40
1:K:189:LEU:HA	1:K:192:ILE:HG12	2.03	0.40
1:L:143:TYR:CE2	1:N:45:VAL:CG2	3.04	0.40
1:L:164:PRO:CG	1:L:174:ALA:HB3	2.51	0.40
1:M:43:VAL:O	1:M:44:MET:CE	2.69	0.40
1:M:113:LYS:HB3	1:M:371:HIS:CD2	2.57	0.40
1:M:143:TYR:CE2	1:O:45:VAL:CG2	3.04	0.40
1:O:236:LEU:HD12	1:O:237:GLU:CA	2.51	0.40
1:P:236:LEU:HD12	1:P:237:GLU:CA	2.51	0.40
1:Q:167:GLU:OE1	1:S:61:LYS:HE2	2.19	0.40
1:R:135:ALA:CB	1:R:140:LEU:HD21	2.50	0.40
1:S:357:ILE:HD12	1:S:357:ILE:HA	1.79	0.40
1:T:34:ILE:CG2	1:T:68:LYS:N	2.84	0.40
1:U:8:LEU:N	1:U:102:PRO:O	2.48	0.40
1:W:332:PRO:HA	1:W:333:PRO:HD3	1.95	0.40
1:W:357:ILE:CG2	1:W:358:THR:N	2.82	0.40
1:A:8:LEU:CD1	1:A:90:PHE:CD1	3.04	0.40
1:A:335:ARG:O	1:A:338:SER:CB	2.69	0.40
1:B:157:ASP:H	2:B:401:ADP:PB	2.45	0.40
1:C:35:VAL:CG1	1:C:35:VAL:O	2.70	0.40
1:E:143:TYR:CE2	1:G:45:VAL:CG2	3.04	0.40
1:F:34:ILE:CG2	1:F:68:LYS:N	2.84	0.40
1:G:38:PRO:CG	1:G:49:GLN:NE2	2.79	0.40
1:G:335:ARG:O	1:G:338:SER:CB	2.69	0.40
1:H:47:MET:HB3	1:H:48:GLY:H	1.61	0.40
1:H:143:TYR:CE2	1:J:45:VAL:CG2	3.04	0.40
1:H:164:PRO:HG2	1:H:174:ALA:CB	2.51	0.40
1:H:169:TYR:CE2	1:J:40:HIS:HB2	2.56	0.40
1:H:208:ILE:CG2	1:H:209:VAL:N	2.83	0.40
1:J:164:PRO:HG2	1:J:174:ALA:CB	2.51	0.40
1:J:169:TYR:CE2	1:L:40:HIS:HB2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:157:ASP:H	2:K:401:ADP:PB	2.45	0.40
1:M:189:LEU:HA	1:M:192:ILE:HG12	2.02	0.40
1:N:149:THR:CG2	1:N:150:GLY:N	2.82	0.40
1:O:113:LYS:HB3	1:O:371:HIS:CD2	2.57	0.40
1:O:223:PHE:CZ	1:O:266:PHE:CZ	3.08	0.40
1:P:173:HIS:CE1	1:Q:268:GLY:N	2.90	0.40
1:Q:35:VAL:CG1	1:Q:35:VAL:O	2.70	0.40
1:Q:175:ILE:H	1:Q:175:ILE:HG13	1.71	0.40
1:R:2:GLU:HB3	1:R:3:ASP:H	1.66	0.40
1:R:335:ARG:O	1:R:338:SER:CB	2.69	0.40
1:S:8:LEU:CD1	1:S:90:PHE:CD1	3.04	0.40
1:S:169:TYR:CE2	1:U:40:HIS:HB2	2.56	0.40
1:T:44:MET:CG	1:T:45:VAL:H	2.18	0.40
1:T:167:GLU:OE1	1:V:61:LYS:HE2	2.20	0.40
1:U:173:HIS:CE1	1:V:268:GLY:N	2.90	0.40
1:V:31:PHE:HA	1:V:32:PRO:HD3	1.66	0.40
1:V:164:PRO:CG	1:V:174:ALA:HB3	2.51	0.40
1:W:47:MET:HB3	1:W:48:GLY:H	1.61	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	B	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	C	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	D	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	E	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	F	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	G	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	H	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	I	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	J	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	K	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	L	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	M	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	N	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	O	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	P	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	Q	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	R	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	S	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	T	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	U	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	V	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
1	W	372/375 (99%)	329 (88%)	31 (8%)	12 (3%)	3	21
All	All	8556/8625 (99%)	7567 (88%)	713 (8%)	276 (3%)	5	21

All (276) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	3	ASP
1	A	41	GLN
1	A	44	MET
1	B	3	ASP
1	B	41	GLN
1	B	44	MET
1	C	3	ASP
1	C	41	GLN
1	C	44	MET
1	D	3	ASP
1	D	41	GLN
1	D	44	MET
1	E	3	ASP
1	E	41	GLN

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Mol	Chain	Res	Type
1	E	44	MET
1	F	3	ASP
1	F	41	GLN
1	F	44	MET
1	G	3	ASP
1	G	41	GLN
1	G	44	MET
1	H	3	ASP
1	H	41	GLN
1	H	44	MET
1	I	3	ASP
1	I	41	GLN
1	I	44	MET
1	J	3	ASP
1	J	41	GLN
1	J	44	MET
1	K	3	ASP
1	K	41	GLN
1	K	44	MET
1	L	3	ASP
1	L	41	GLN
1	L	44	MET
1	M	3	ASP
1	M	41	GLN
1	M	44	MET
1	N	3	ASP
1	N	41	GLN
1	N	44	MET
1	O	3	ASP
1	O	41	GLN
1	O	44	MET
1	P	3	ASP
1	P	41	GLN
1	P	44	MET
1	Q	3	ASP
1	Q	41	GLN
1	Q	44	MET
1	R	3	ASP
1	R	41	GLN
1	R	44	MET
1	S	3	ASP
1	S	41	GLN

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Mol	Chain	Res	Type
1	S	44	MET
1	T	3	ASP
1	T	41	GLN
1	T	44	MET
1	U	3	ASP
1	U	41	GLN
1	U	44	MET
1	V	3	ASP
1	V	41	GLN
1	V	44	MET
1	W	3	ASP
1	W	41	GLN
1	W	44	MET
1	A	4	GLU
1	A	55	GLY
1	A	374	CYS
1	B	4	GLU
1	B	55	GLY
1	B	374	CYS
1	C	4	GLU
1	C	55	GLY
1	C	374	CYS
1	D	4	GLU
1	D	55	GLY
1	D	374	CYS
1	E	4	GLU
1	E	55	GLY
1	E	374	CYS
1	F	4	GLU
1	F	55	GLY
1	F	374	CYS
1	G	4	GLU
1	G	55	GLY
1	G	374	CYS
1	H	4	GLU
1	H	55	GLY
1	H	374	CYS
1	I	4	GLU
1	I	55	GLY
1	I	374	CYS
1	J	4	GLU
1	J	55	GLY

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Mol	Chain	Res	Type
1	J	374	CYS
1	K	4	GLU
1	K	55	GLY
1	K	374	CYS
1	L	4	GLU
1	L	55	GLY
1	L	374	CYS
1	M	4	GLU
1	M	55	GLY
1	M	374	CYS
1	N	4	GLU
1	N	55	GLY
1	N	374	CYS
1	O	4	GLU
1	O	55	GLY
1	O	374	CYS
1	P	4	GLU
1	P	55	GLY
1	P	374	CYS
1	Q	4	GLU
1	Q	55	GLY
1	Q	374	CYS
1	R	4	GLU
1	R	55	GLY
1	R	374	CYS
1	S	4	GLU
1	S	55	GLY
1	S	374	CYS
1	T	4	GLU
1	T	55	GLY
1	T	374	CYS
1	U	4	GLU
1	U	55	GLY
1	U	374	CYS
1	V	4	GLU
1	V	55	GLY
1	V	374	CYS
1	W	4	GLU
1	W	55	GLY
1	W	374	CYS
1	A	2	GLU
1	B	2	GLU

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Mol	Chain	Res	Type
1	C	2	GLU
1	D	2	GLU
1	E	2	GLU
1	F	2	GLU
1	G	2	GLU
1	H	2	GLU
1	I	2	GLU
1	J	2	GLU
1	K	2	GLU
1	L	2	GLU
1	M	2	GLU
1	N	2	GLU
1	O	2	GLU
1	P	2	GLU
1	Q	2	GLU
1	R	2	GLU
1	S	2	GLU
1	T	2	GLU
1	U	2	GLU
1	V	2	GLU
1	W	2	GLU
1	A	43	VAL
1	A	54	VAL
1	B	43	VAL
1	B	54	VAL
1	C	43	VAL
1	C	54	VAL
1	D	43	VAL
1	D	54	VAL
1	E	43	VAL
1	E	54	VAL
1	F	43	VAL
1	F	54	VAL
1	G	43	VAL
1	G	54	VAL
1	H	43	VAL
1	H	54	VAL
1	I	43	VAL
1	I	54	VAL
1	J	43	VAL
1	J	54	VAL
1	K	43	VAL

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Mol	Chain	Res	Type
1	K	54	VAL
1	L	43	VAL
1	L	54	VAL
1	M	43	VAL
1	M	54	VAL
1	N	43	VAL
1	N	54	VAL
1	O	43	VAL
1	O	54	VAL
1	P	43	VAL
1	P	54	VAL
1	Q	43	VAL
1	Q	54	VAL
1	R	43	VAL
1	R	54	VAL
1	S	43	VAL
1	S	54	VAL
1	T	43	VAL
1	T	54	VAL
1	U	43	VAL
1	U	54	VAL
1	V	43	VAL
1	V	54	VAL
1	W	43	VAL
1	W	54	VAL
1	A	58	ALA
1	B	58	ALA
1	C	58	ALA
1	E	58	ALA
1	F	58	ALA
1	H	58	ALA
1	M	58	ALA
1	N	58	ALA
1	S	58	ALA
1	T	58	ALA
1	U	58	ALA
1	D	58	ALA
1	G	58	ALA
1	I	58	ALA
1	J	58	ALA
1	K	58	ALA
1	L	58	ALA

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Mol	Chain	Res	Type
1	O	58	ALA
1	P	58	ALA
1	Q	58	ALA
1	R	58	ALA
1	V	58	ALA
1	W	58	ALA
1	A	45	VAL
1	B	45	VAL
1	E	45	VAL
1	F	45	VAL
1	G	45	VAL
1	H	45	VAL
1	I	45	VAL
1	J	45	VAL
1	K	45	VAL
1	M	45	VAL
1	N	45	VAL
1	O	45	VAL
1	P	45	VAL
1	R	45	VAL
1	S	45	VAL
1	T	45	VAL
1	U	45	VAL
1	V	45	VAL
1	W	45	VAL
1	C	45	VAL
1	D	45	VAL
1	L	45	VAL
1	Q	45	VAL
1	A	370	VAL
1	B	370	VAL
1	C	370	VAL
1	D	370	VAL
1	E	370	VAL
1	F	370	VAL
1	G	370	VAL
1	H	370	VAL
1	I	370	VAL
1	J	370	VAL
1	K	370	VAL
1	L	370	VAL
1	M	370	VAL

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Mol	Chain	Res	Type
1	N	370	VAL
1	O	370	VAL
1	P	370	VAL
1	Q	370	VAL
1	R	370	VAL
1	S	370	VAL
1	T	370	VAL
1	U	370	VAL
1	V	370	VAL
1	W	370	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	B	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	C	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	D	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	E	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	F	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	G	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	H	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	I	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	J	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	K	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	L	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	M	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	N	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	O	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	P	317/317 (100%)	280 (88%)	37 (12%)	4	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	Q	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	R	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	S	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	T	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	U	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	V	317/317 (100%)	280 (88%)	37 (12%)	4	16
1	W	317/317 (100%)	280 (88%)	37 (12%)	4	16
All	All	7291/7291 (100%)	6440 (88%)	851 (12%)	7	16

All (851) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	8	LEU
1	A	33	SER
1	A	35	VAL
1	A	37	ARG
1	A	45	VAL
1	A	49	GLN
1	A	51	ASP
1	A	56	ASP
1	A	57	GLU
1	A	66	THR
1	A	68	LYS
1	A	113	LYS
1	A	132	MET
1	A	141	SER
1	A	143	TYR
1	A	145	SER
1	A	147	ARG
1	A	148	THR
1	A	149	THR
1	A	167	GLU
1	A	171	LEU
1	A	176	MET
1	A	179	ASP
1	A	180	LEU
1	A	183	ARG
1	A	208	ILE
1	A	232	SER
1	A	236	LEU

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Mol	Chain	Res	Type
1	A	244	ASP
1	A	269	MET
1	A	286	ASP
1	A	335	ARG
1	A	350	SER
1	A	357	ILE
1	A	370	VAL
1	A	372	ARG
1	A	373	LYS
1	B	8	LEU
1	B	33	SER
1	B	35	VAL
1	B	37	ARG
1	B	45	VAL
1	B	49	GLN
1	B	51	ASP
1	B	56	ASP
1	B	57	GLU
1	B	66	THR
1	B	68	LYS
1	B	113	LYS
1	B	132	MET
1	B	141	SER
1	B	143	TYR
1	B	145	SER
1	B	147	ARG
1	B	148	THR
1	B	149	THR
1	B	167	GLU
1	B	171	LEU
1	B	176	MET
1	B	179	ASP
1	B	180	LEU
1	B	183	ARG
1	B	208	ILE
1	B	232	SER
1	B	236	LEU
1	B	244	ASP
1	B	269	MET
1	B	286	ASP
1	B	335	ARG
1	B	350	SER

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Mol	Chain	Res	Type
1	B	357	ILE
1	B	370	VAL
1	B	372	ARG
1	B	373	LYS
1	C	8	LEU
1	C	33	SER
1	C	35	VAL
1	C	37	ARG
1	C	45	VAL
1	C	49	GLN
1	C	51	ASP
1	C	56	ASP
1	C	57	GLU
1	C	66	THR
1	C	68	LYS
1	C	113	LYS
1	C	132	MET
1	C	141	SER
1	C	143	TYR
1	C	145	SER
1	C	147	ARG
1	C	148	THR
1	C	149	THR
1	C	167	GLU
1	C	171	LEU
1	C	176	MET
1	C	179	ASP
1	C	180	LEU
1	C	183	ARG
1	C	208	ILE
1	C	232	SER
1	C	236	LEU
1	C	244	ASP
1	C	269	MET
1	C	286	ASP
1	C	335	ARG
1	C	350	SER
1	C	357	ILE
1	C	370	VAL
1	C	372	ARG
1	C	373	LYS
1	D	8	LEU

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Mol	Chain	Res	Type
1	D	33	SER
1	D	35	VAL
1	D	37	ARG
1	D	45	VAL
1	D	49	GLN
1	D	51	ASP
1	D	56	ASP
1	D	57	GLU
1	D	66	THR
1	D	68	LYS
1	D	113	LYS
1	D	132	MET
1	D	141	SER
1	D	143	TYR
1	D	145	SER
1	D	147	ARG
1	D	148	THR
1	D	149	THR
1	D	167	GLU
1	D	171	LEU
1	D	176	MET
1	D	179	ASP
1	D	180	LEU
1	D	183	ARG
1	D	208	ILE
1	D	232	SER
1	D	236	LEU
1	D	244	ASP
1	D	269	MET
1	D	286	ASP
1	D	335	ARG
1	D	350	SER
1	D	357	ILE
1	D	370	VAL
1	D	372	ARG
1	D	373	LYS
1	E	8	LEU
1	E	33	SER
1	E	35	VAL
1	E	37	ARG
1	E	45	VAL
1	E	49	GLN

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Mol	Chain	Res	Type
1	E	51	ASP
1	E	56	ASP
1	E	57	GLU
1	E	66	THR
1	E	68	LYS
1	E	113	LYS
1	E	132	MET
1	E	141	SER
1	E	143	TYR
1	E	145	SER
1	E	147	ARG
1	E	148	THR
1	E	149	THR
1	E	167	GLU
1	E	171	LEU
1	E	176	MET
1	E	179	ASP
1	E	180	LEU
1	E	183	ARG
1	E	208	ILE
1	E	232	SER
1	E	236	LEU
1	E	244	ASP
1	E	269	MET
1	E	286	ASP
1	E	335	ARG
1	E	350	SER
1	E	357	ILE
1	E	370	VAL
1	E	372	ARG
1	E	373	LYS
1	F	8	LEU
1	F	33	SER
1	F	35	VAL
1	F	37	ARG
1	F	45	VAL
1	F	49	GLN
1	F	51	ASP
1	F	56	ASP
1	F	57	GLU
1	F	66	THR
1	F	68	LYS

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Mol	Chain	Res	Type
1	F	113	LYS
1	F	132	MET
1	F	141	SER
1	F	143	TYR
1	F	145	SER
1	F	147	ARG
1	F	148	THR
1	F	149	THR
1	F	167	GLU
1	F	171	LEU
1	F	176	MET
1	F	179	ASP
1	F	180	LEU
1	F	183	ARG
1	F	208	ILE
1	F	232	SER
1	F	236	LEU
1	F	244	ASP
1	F	269	MET
1	F	286	ASP
1	F	335	ARG
1	F	350	SER
1	F	357	ILE
1	F	370	VAL
1	F	372	ARG
1	F	373	LYS
1	G	8	LEU
1	G	33	SER
1	G	35	VAL
1	G	37	ARG
1	G	45	VAL
1	G	49	GLN
1	G	51	ASP
1	G	56	ASP
1	G	57	GLU
1	G	66	THR
1	G	68	LYS
1	G	113	LYS
1	G	132	MET
1	G	141	SER
1	G	143	TYR
1	G	145	SER

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Mol	Chain	Res	Type
1	G	147	ARG
1	G	148	THR
1	G	149	THR
1	G	167	GLU
1	G	171	LEU
1	G	176	MET
1	G	179	ASP
1	G	180	LEU
1	G	183	ARG
1	G	208	ILE
1	G	232	SER
1	G	236	LEU
1	G	244	ASP
1	G	269	MET
1	G	286	ASP
1	G	335	ARG
1	G	350	SER
1	G	357	ILE
1	G	370	VAL
1	G	372	ARG
1	G	373	LYS
1	H	8	LEU
1	H	33	SER
1	H	35	VAL
1	H	37	ARG
1	H	45	VAL
1	H	49	GLN
1	H	51	ASP
1	H	56	ASP
1	H	57	GLU
1	H	66	THR
1	H	68	LYS
1	H	113	LYS
1	H	132	MET
1	H	141	SER
1	H	143	TYR
1	H	145	SER
1	H	147	ARG
1	H	148	THR
1	H	149	THR
1	H	167	GLU
1	H	171	LEU

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Mol	Chain	Res	Type
1	H	176	MET
1	H	179	ASP
1	H	180	LEU
1	H	183	ARG
1	H	208	ILE
1	H	232	SER
1	H	236	LEU
1	H	244	ASP
1	H	269	MET
1	H	286	ASP
1	H	335	ARG
1	H	350	SER
1	H	357	ILE
1	H	370	VAL
1	H	372	ARG
1	H	373	LYS
1	I	8	LEU
1	I	33	SER
1	I	35	VAL
1	I	37	ARG
1	I	45	VAL
1	I	49	GLN
1	I	51	ASP
1	I	56	ASP
1	I	57	GLU
1	I	66	THR
1	I	68	LYS
1	I	113	LYS
1	I	132	MET
1	I	141	SER
1	I	143	TYR
1	I	145	SER
1	I	147	ARG
1	I	148	THR
1	I	149	THR
1	I	167	GLU
1	I	171	LEU
1	I	176	MET
1	I	179	ASP
1	I	180	LEU
1	I	183	ARG
1	I	208	ILE

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Mol	Chain	Res	Type
1	I	232	SER
1	I	236	LEU
1	I	244	ASP
1	I	269	MET
1	I	286	ASP
1	I	335	ARG
1	I	350	SER
1	I	357	ILE
1	I	370	VAL
1	I	372	ARG
1	I	373	LYS
1	J	8	LEU
1	J	33	SER
1	J	35	VAL
1	J	37	ARG
1	J	45	VAL
1	J	49	GLN
1	J	51	ASP
1	J	56	ASP
1	J	57	GLU
1	J	66	THR
1	J	68	LYS
1	J	113	LYS
1	J	132	MET
1	J	141	SER
1	J	143	TYR
1	J	145	SER
1	J	147	ARG
1	J	148	THR
1	J	149	THR
1	J	167	GLU
1	J	171	LEU
1	J	176	MET
1	J	179	ASP
1	J	180	LEU
1	J	183	ARG
1	J	208	ILE
1	J	232	SER
1	J	236	LEU
1	J	244	ASP
1	J	269	MET
1	J	286	ASP

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Mol	Chain	Res	Type
1	J	335	ARG
1	J	350	SER
1	J	357	ILE
1	J	370	VAL
1	J	372	ARG
1	J	373	LYS
1	K	8	LEU
1	K	33	SER
1	K	35	VAL
1	K	37	ARG
1	K	45	VAL
1	K	49	GLN
1	K	51	ASP
1	K	56	ASP
1	K	57	GLU
1	K	66	THR
1	K	68	LYS
1	K	113	LYS
1	K	132	MET
1	K	141	SER
1	K	143	TYR
1	K	145	SER
1	K	147	ARG
1	K	148	THR
1	K	149	THR
1	K	167	GLU
1	K	171	LEU
1	K	176	MET
1	K	179	ASP
1	K	180	LEU
1	K	183	ARG
1	K	208	ILE
1	K	232	SER
1	K	236	LEU
1	K	244	ASP
1	K	269	MET
1	K	286	ASP
1	K	335	ARG
1	K	350	SER
1	K	357	ILE
1	K	370	VAL
1	K	372	ARG

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Mol	Chain	Res	Type
1	K	373	LYS
1	L	8	LEU
1	L	33	SER
1	L	35	VAL
1	L	37	ARG
1	L	45	VAL
1	L	49	GLN
1	L	51	ASP
1	L	56	ASP
1	L	57	GLU
1	L	66	THR
1	L	68	LYS
1	L	113	LYS
1	L	132	MET
1	L	141	SER
1	L	143	TYR
1	L	145	SER
1	L	147	ARG
1	L	148	THR
1	L	149	THR
1	L	167	GLU
1	L	171	LEU
1	L	176	MET
1	L	179	ASP
1	L	180	LEU
1	L	183	ARG
1	L	208	ILE
1	L	232	SER
1	L	236	LEU
1	L	244	ASP
1	L	269	MET
1	L	286	ASP
1	L	335	ARG
1	L	350	SER
1	L	357	ILE
1	L	370	VAL
1	L	372	ARG
1	L	373	LYS
1	M	8	LEU
1	M	33	SER
1	M	35	VAL
1	M	37	ARG

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Mol	Chain	Res	Type
1	M	45	VAL
1	M	49	GLN
1	M	51	ASP
1	M	56	ASP
1	M	57	GLU
1	M	66	THR
1	M	68	LYS
1	M	113	LYS
1	M	132	MET
1	M	141	SER
1	M	143	TYR
1	M	145	SER
1	M	147	ARG
1	M	148	THR
1	M	149	THR
1	M	167	GLU
1	M	171	LEU
1	M	176	MET
1	M	179	ASP
1	M	180	LEU
1	M	183	ARG
1	M	208	ILE
1	M	232	SER
1	M	236	LEU
1	M	244	ASP
1	M	269	MET
1	M	286	ASP
1	M	335	ARG
1	M	350	SER
1	M	357	ILE
1	M	370	VAL
1	M	372	ARG
1	M	373	LYS
1	N	8	LEU
1	N	33	SER
1	N	35	VAL
1	N	37	ARG
1	N	45	VAL
1	N	49	GLN
1	N	51	ASP
1	N	56	ASP
1	N	57	GLU

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Mol	Chain	Res	Type
1	N	66	THR
1	N	68	LYS
1	N	113	LYS
1	N	132	MET
1	N	141	SER
1	N	143	TYR
1	N	145	SER
1	N	147	ARG
1	N	148	THR
1	N	149	THR
1	N	167	GLU
1	N	171	LEU
1	N	176	MET
1	N	179	ASP
1	N	180	LEU
1	N	183	ARG
1	N	208	ILE
1	N	232	SER
1	N	236	LEU
1	N	244	ASP
1	N	269	MET
1	N	286	ASP
1	N	335	ARG
1	N	350	SER
1	N	357	ILE
1	N	370	VAL
1	N	372	ARG
1	N	373	LYS
1	O	8	LEU
1	O	33	SER
1	O	35	VAL
1	O	37	ARG
1	O	45	VAL
1	O	49	GLN
1	O	51	ASP
1	O	56	ASP
1	O	57	GLU
1	O	66	THR
1	O	68	LYS
1	O	113	LYS
1	O	132	MET
1	O	141	SER

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Mol	Chain	Res	Type
1	O	143	TYR
1	O	145	SER
1	O	147	ARG
1	O	148	THR
1	O	149	THR
1	O	167	GLU
1	O	171	LEU
1	O	176	MET
1	O	179	ASP
1	O	180	LEU
1	O	183	ARG
1	O	208	ILE
1	O	232	SER
1	O	236	LEU
1	O	244	ASP
1	O	269	MET
1	O	286	ASP
1	O	335	ARG
1	O	350	SER
1	O	357	ILE
1	O	370	VAL
1	O	372	ARG
1	O	373	LYS
1	P	8	LEU
1	P	33	SER
1	P	35	VAL
1	P	37	ARG
1	P	45	VAL
1	P	49	GLN
1	P	51	ASP
1	P	56	ASP
1	P	57	GLU
1	P	66	THR
1	P	68	LYS
1	P	113	LYS
1	P	132	MET
1	P	141	SER
1	P	143	TYR
1	P	145	SER
1	P	147	ARG
1	P	148	THR
1	P	149	THR

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Mol	Chain	Res	Type
1	P	167	GLU
1	P	171	LEU
1	P	176	MET
1	P	179	ASP
1	P	180	LEU
1	P	183	ARG
1	P	208	ILE
1	P	232	SER
1	P	236	LEU
1	P	244	ASP
1	P	269	MET
1	P	286	ASP
1	P	335	ARG
1	P	350	SER
1	P	357	ILE
1	P	370	VAL
1	P	372	ARG
1	P	373	LYS
1	Q	8	LEU
1	Q	33	SER
1	Q	35	VAL
1	Q	37	ARG
1	Q	45	VAL
1	Q	49	GLN
1	Q	51	ASP
1	Q	56	ASP
1	Q	57	GLU
1	Q	66	THR
1	Q	68	LYS
1	Q	113	LYS
1	Q	132	MET
1	Q	141	SER
1	Q	143	TYR
1	Q	145	SER
1	Q	147	ARG
1	Q	148	THR
1	Q	149	THR
1	Q	167	GLU
1	Q	171	LEU
1	Q	176	MET
1	Q	179	ASP
1	Q	180	LEU

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Mol	Chain	Res	Type
1	Q	183	ARG
1	Q	208	ILE
1	Q	232	SER
1	Q	236	LEU
1	Q	244	ASP
1	Q	269	MET
1	Q	286	ASP
1	Q	335	ARG
1	Q	350	SER
1	Q	357	ILE
1	Q	370	VAL
1	Q	372	ARG
1	Q	373	LYS
1	R	8	LEU
1	R	33	SER
1	R	35	VAL
1	R	37	ARG
1	R	45	VAL
1	R	49	GLN
1	R	51	ASP
1	R	56	ASP
1	R	57	GLU
1	R	66	THR
1	R	68	LYS
1	R	113	LYS
1	R	132	MET
1	R	141	SER
1	R	143	TYR
1	R	145	SER
1	R	147	ARG
1	R	148	THR
1	R	149	THR
1	R	167	GLU
1	R	171	LEU
1	R	176	MET
1	R	179	ASP
1	R	180	LEU
1	R	183	ARG
1	R	208	ILE
1	R	232	SER
1	R	236	LEU
1	R	244	ASP

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Mol	Chain	Res	Type
1	R	269	MET
1	R	286	ASP
1	R	335	ARG
1	R	350	SER
1	R	357	ILE
1	R	370	VAL
1	R	372	ARG
1	R	373	LYS
1	S	8	LEU
1	S	33	SER
1	S	35	VAL
1	S	37	ARG
1	S	45	VAL
1	S	49	GLN
1	S	51	ASP
1	S	56	ASP
1	S	57	GLU
1	S	66	THR
1	S	68	LYS
1	S	113	LYS
1	S	132	MET
1	S	141	SER
1	S	143	TYR
1	S	145	SER
1	S	147	ARG
1	S	148	THR
1	S	149	THR
1	S	167	GLU
1	S	171	LEU
1	S	176	MET
1	S	179	ASP
1	S	180	LEU
1	S	183	ARG
1	S	208	ILE
1	S	232	SER
1	S	236	LEU
1	S	244	ASP
1	S	269	MET
1	S	286	ASP
1	S	335	ARG
1	S	350	SER
1	S	357	ILE

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Mol	Chain	Res	Type
1	S	370	VAL
1	S	372	ARG
1	S	373	LYS
1	T	8	LEU
1	T	33	SER
1	T	35	VAL
1	T	37	ARG
1	T	45	VAL
1	T	49	GLN
1	T	51	ASP
1	T	56	ASP
1	T	57	GLU
1	T	66	THR
1	T	68	LYS
1	T	113	LYS
1	T	132	MET
1	T	141	SER
1	T	143	TYR
1	T	145	SER
1	T	147	ARG
1	T	148	THR
1	T	149	THR
1	T	167	GLU
1	T	171	LEU
1	T	176	MET
1	T	179	ASP
1	T	180	LEU
1	T	183	ARG
1	T	208	ILE
1	T	232	SER
1	T	236	LEU
1	T	244	ASP
1	T	269	MET
1	T	286	ASP
1	T	335	ARG
1	T	350	SER
1	T	357	ILE
1	T	370	VAL
1	T	372	ARG
1	T	373	LYS
1	U	8	LEU
1	U	33	SER

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Mol	Chain	Res	Type
1	U	35	VAL
1	U	37	ARG
1	U	45	VAL
1	U	49	GLN
1	U	51	ASP
1	U	56	ASP
1	U	57	GLU
1	U	66	THR
1	U	68	LYS
1	U	113	LYS
1	U	132	MET
1	U	141	SER
1	U	143	TYR
1	U	145	SER
1	U	147	ARG
1	U	148	THR
1	U	149	THR
1	U	167	GLU
1	U	171	LEU
1	U	176	MET
1	U	179	ASP
1	U	180	LEU
1	U	183	ARG
1	U	208	ILE
1	U	232	SER
1	U	236	LEU
1	U	244	ASP
1	U	269	MET
1	U	286	ASP
1	U	335	ARG
1	U	350	SER
1	U	357	ILE
1	U	370	VAL
1	U	372	ARG
1	U	373	LYS
1	V	8	LEU
1	V	33	SER
1	V	35	VAL
1	V	37	ARG
1	V	45	VAL
1	V	49	GLN
1	V	51	ASP

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Mol	Chain	Res	Type
1	V	56	ASP
1	V	57	GLU
1	V	66	THR
1	V	68	LYS
1	V	113	LYS
1	V	132	MET
1	V	141	SER
1	V	143	TYR
1	V	145	SER
1	V	147	ARG
1	V	148	THR
1	V	149	THR
1	V	167	GLU
1	V	171	LEU
1	V	176	MET
1	V	179	ASP
1	V	180	LEU
1	V	183	ARG
1	V	208	ILE
1	V	232	SER
1	V	236	LEU
1	V	244	ASP
1	V	269	MET
1	V	286	ASP
1	V	335	ARG
1	V	350	SER
1	V	357	ILE
1	V	370	VAL
1	V	372	ARG
1	V	373	LYS
1	W	8	LEU
1	W	33	SER
1	W	35	VAL
1	W	37	ARG
1	W	45	VAL
1	W	49	GLN
1	W	51	ASP
1	W	56	ASP
1	W	57	GLU
1	W	66	THR
1	W	68	LYS
1	W	113	LYS

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Mol	Chain	Res	Type
1	W	132	MET
1	W	141	SER
1	W	143	TYR
1	W	145	SER
1	W	147	ARG
1	W	148	THR
1	W	149	THR
1	W	167	GLU
1	W	171	LEU
1	W	176	MET
1	W	179	ASP
1	W	180	LEU
1	W	183	ARG
1	W	208	ILE
1	W	232	SER
1	W	236	LEU
1	W	244	ASP
1	W	269	MET
1	W	286	ASP
1	W	335	ARG
1	W	350	SER
1	W	357	ILE
1	W	370	VAL
1	W	372	ARG
1	W	373	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (136) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	49	GLN
1	A	59	GLN
1	A	92	ASN
1	A	121	GLN
1	A	173	HIS
1	A	353	GLN
1	B	49	GLN
1	B	59	GLN
1	B	92	ASN
1	B	121	GLN
1	B	173	HIS
1	B	353	GLN
1	C	49	GLN

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Mol	Chain	Res	Type
1	C	59	GLN
1	C	92	ASN
1	C	121	GLN
1	C	173	HIS
1	C	353	GLN
1	D	49	GLN
1	D	59	GLN
1	D	92	ASN
1	D	121	GLN
1	D	353	GLN
1	E	49	GLN
1	E	59	GLN
1	E	92	ASN
1	E	121	GLN
1	E	173	HIS
1	E	353	GLN
1	F	49	GLN
1	F	59	GLN
1	F	92	ASN
1	F	121	GLN
1	F	173	HIS
1	F	353	GLN
1	G	49	GLN
1	G	59	GLN
1	G	92	ASN
1	G	121	GLN
1	G	173	HIS
1	G	353	GLN
1	H	49	GLN
1	H	59	GLN
1	H	92	ASN
1	H	121	GLN
1	H	173	HIS
1	H	353	GLN
1	I	49	GLN
1	I	59	GLN
1	I	92	ASN
1	I	121	GLN
1	I	173	HIS
1	I	353	GLN
1	J	49	GLN
1	J	59	GLN

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Mol	Chain	Res	Type
1	J	92	ASN
1	J	121	GLN
1	J	173	HIS
1	J	353	GLN
1	K	49	GLN
1	K	59	GLN
1	K	92	ASN
1	K	121	GLN
1	K	173	HIS
1	K	353	GLN
1	L	49	GLN
1	L	59	GLN
1	L	92	ASN
1	L	121	GLN
1	L	173	HIS
1	L	353	GLN
1	M	49	GLN
1	M	59	GLN
1	M	92	ASN
1	M	121	GLN
1	M	173	HIS
1	M	353	GLN
1	N	49	GLN
1	N	59	GLN
1	N	92	ASN
1	N	121	GLN
1	N	173	HIS
1	N	353	GLN
1	O	49	GLN
1	O	59	GLN
1	O	92	ASN
1	O	121	GLN
1	O	173	HIS
1	O	353	GLN
1	P	49	GLN
1	P	59	GLN
1	P	92	ASN
1	P	121	GLN
1	P	173	HIS
1	P	353	GLN
1	Q	49	GLN
1	Q	59	GLN

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Mol	Chain	Res	Type
1	Q	92	ASN
1	Q	121	GLN
1	Q	173	HIS
1	Q	353	GLN
1	R	49	GLN
1	R	59	GLN
1	R	92	ASN
1	R	121	GLN
1	R	173	HIS
1	R	353	GLN
1	S	49	GLN
1	S	59	GLN
1	S	92	ASN
1	S	121	GLN
1	S	173	HIS
1	S	353	GLN
1	T	49	GLN
1	T	59	GLN
1	T	92	ASN
1	T	121	GLN
1	T	173	HIS
1	T	353	GLN
1	U	49	GLN
1	U	59	GLN
1	U	92	ASN
1	U	121	GLN
1	U	173	HIS
1	U	353	GLN
1	V	49	GLN
1	V	59	GLN
1	V	92	ASN
1	V	121	GLN
1	V	173	HIS
1	V	353	GLN
1	W	49	GLN
1	W	59	GLN
1	W	92	ASN
1	W	121	GLN
1	W	353	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

23 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
1	HIC	R	73	1	8,11,12	1.05	0	6,14,16	1.20	1 (16%)
1	HIC	I	73	1	8,11,12	1.05	0	6,14,16	1.18	1 (16%)
1	HIC	V	73	1	8,11,12	1.04	0	6,14,16	1.19	1 (16%)
1	HIC	P	73	1	8,11,12	1.04	0	6,14,16	1.18	1 (16%)
1	HIC	N	73	1	8,11,12	1.05	0	6,14,16	1.18	1 (16%)
1	HIC	E	73	1	8,11,12	1.04	0	6,14,16	1.20	1 (16%)
1	HIC	A	73	1	8,11,12	1.03	0	6,14,16	1.18	1 (16%)
1	HIC	T	73	1	8,11,12	1.04	0	6,14,16	1.17	1 (16%)
1	HIC	J	73	1	8,11,12	1.04	0	6,14,16	1.20	1 (16%)
1	HIC	O	73	1	8,11,12	1.04	0	6,14,16	1.18	1 (16%)
1	HIC	C	73	1	8,11,12	1.04	0	6,14,16	1.17	1 (16%)
1	HIC	S	73	1	8,11,12	1.05	0	6,14,16	1.20	1 (16%)
1	HIC	H	73	1	8,11,12	1.06	0	6,14,16	1.19	1 (16%)
1	HIC	F	73	1	8,11,12	1.05	0	6,14,16	1.19	1 (16%)
1	HIC	G	73	1	8,11,12	1.03	0	6,14,16	1.16	1 (16%)
1	HIC	K	73	1	8,11,12	1.05	0	6,14,16	1.20	1 (16%)
1	HIC	W	73	1	8,11,12	1.05	0	6,14,16	1.21	1 (16%)
1	HIC	U	73	1	8,11,12	1.05	0	6,14,16	1.20	1 (16%)
1	HIC	L	73	1	8,11,12	1.04	0	6,14,16	1.18	1 (16%)
1	HIC	M	73	1	8,11,12	1.05	0	6,14,16	1.20	1 (16%)
1	HIC	Q	73	1	8,11,12	1.05	0	6,14,16	1.19	1 (16%)
1	HIC	D	73	1	8,11,12	1.05	0	6,14,16	1.19	1 (16%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	HIC	B	73	1	8,11,12	1.04	0	6,14,16	1.19	1 (16%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	HIC	R	73	1	-	2/5/6/8	0/1/1/1
1	HIC	I	73	1	-	2/5/6/8	0/1/1/1
1	HIC	V	73	1	-	2/5/6/8	0/1/1/1
1	HIC	P	73	1	-	2/5/6/8	0/1/1/1
1	HIC	N	73	1	-	2/5/6/8	0/1/1/1
1	HIC	E	73	1	-	2/5/6/8	0/1/1/1
1	HIC	A	73	1	-	2/5/6/8	0/1/1/1
1	HIC	T	73	1	-	2/5/6/8	0/1/1/1
1	HIC	J	73	1	-	2/5/6/8	0/1/1/1
1	HIC	O	73	1	-	2/5/6/8	0/1/1/1
1	HIC	C	73	1	-	2/5/6/8	0/1/1/1
1	HIC	S	73	1	-	2/5/6/8	0/1/1/1
1	HIC	H	73	1	-	2/5/6/8	0/1/1/1
1	HIC	F	73	1	-	2/5/6/8	0/1/1/1
1	HIC	G	73	1	-	2/5/6/8	0/1/1/1
1	HIC	K	73	1	-	2/5/6/8	0/1/1/1
1	HIC	W	73	1	-	2/5/6/8	0/1/1/1
1	HIC	U	73	1	-	2/5/6/8	0/1/1/1
1	HIC	L	73	1	-	2/5/6/8	0/1/1/1
1	HIC	M	73	1	-	2/5/6/8	0/1/1/1
1	HIC	Q	73	1	-	2/5/6/8	0/1/1/1
1	HIC	D	73	1	-	2/5/6/8	0/1/1/1
1	HIC	B	73	1	-	2/5/6/8	0/1/1/1

There are no bond length outliers.

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	73	HIC	CG-CD2-NE2	2.28	110.25	107.78
1	R	73	HIC	CG-CD2-NE2	2.25	110.22	107.78
1	K	73	HIC	CG-CD2-NE2	2.25	110.22	107.78
1	J	73	HIC	CG-CD2-NE2	2.25	110.22	107.78
1	E	73	HIC	CG-CD2-NE2	2.25	110.21	107.78
1	M	73	HIC	CG-CD2-NE2	2.24	110.21	107.78
1	S	73	HIC	CG-CD2-NE2	2.24	110.21	107.78
1	U	73	HIC	CG-CD2-NE2	2.24	110.21	107.78
1	Q	73	HIC	CG-CD2-NE2	2.24	110.20	107.78
1	H	73	HIC	CG-CD2-NE2	2.24	110.20	107.78
1	F	73	HIC	CG-CD2-NE2	2.23	110.19	107.78
1	D	73	HIC	CG-CD2-NE2	2.23	110.19	107.78
1	B	73	HIC	CG-CD2-NE2	2.22	110.19	107.78
1	N	73	HIC	CG-CD2-NE2	2.22	110.19	107.78
1	V	73	HIC	CG-CD2-NE2	2.22	110.19	107.78
1	I	73	HIC	CG-CD2-NE2	2.21	110.17	107.78
1	L	73	HIC	CG-CD2-NE2	2.21	110.17	107.78
1	P	73	HIC	CG-CD2-NE2	2.20	110.16	107.78
1	O	73	HIC	CG-CD2-NE2	2.20	110.16	107.78
1	A	73	HIC	CG-CD2-NE2	2.20	110.16	107.78
1	T	73	HIC	CG-CD2-NE2	2.20	110.16	107.78
1	C	73	HIC	CG-CD2-NE2	2.19	110.15	107.78
1	G	73	HIC	CG-CD2-NE2	2.17	110.13	107.78

There are no chirality outliers.

All (46) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	73	HIC	O-C-CA-CB
1	A	73	HIC	CA-CB-CG-ND1
1	B	73	HIC	O-C-CA-CB
1	B	73	HIC	CA-CB-CG-ND1
1	C	73	HIC	O-C-CA-CB
1	C	73	HIC	CA-CB-CG-ND1
1	D	73	HIC	O-C-CA-CB
1	D	73	HIC	CA-CB-CG-ND1
1	E	73	HIC	O-C-CA-CB
1	E	73	HIC	CA-CB-CG-ND1
1	F	73	HIC	O-C-CA-CB
1	F	73	HIC	CA-CB-CG-ND1
1	G	73	HIC	O-C-CA-CB
1	G	73	HIC	CA-CB-CG-ND1
1	H	73	HIC	O-C-CA-CB

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Mol	Chain	Res	Type	Atoms
1	H	73	HIC	CA-CB-CG-ND1
1	I	73	HIC	O-C-CA-CB
1	I	73	HIC	CA-CB-CG-ND1
1	J	73	HIC	O-C-CA-CB
1	J	73	HIC	CA-CB-CG-ND1
1	K	73	HIC	O-C-CA-CB
1	K	73	HIC	CA-CB-CG-ND1
1	L	73	HIC	O-C-CA-CB
1	L	73	HIC	CA-CB-CG-ND1
1	M	73	HIC	O-C-CA-CB
1	M	73	HIC	CA-CB-CG-ND1
1	N	73	HIC	O-C-CA-CB
1	N	73	HIC	CA-CB-CG-ND1
1	O	73	HIC	O-C-CA-CB
1	O	73	HIC	CA-CB-CG-ND1
1	P	73	HIC	O-C-CA-CB
1	P	73	HIC	CA-CB-CG-ND1
1	Q	73	HIC	O-C-CA-CB
1	Q	73	HIC	CA-CB-CG-ND1
1	R	73	HIC	O-C-CA-CB
1	R	73	HIC	CA-CB-CG-ND1
1	S	73	HIC	O-C-CA-CB
1	S	73	HIC	CA-CB-CG-ND1
1	T	73	HIC	O-C-CA-CB
1	T	73	HIC	CA-CB-CG-ND1
1	U	73	HIC	O-C-CA-CB
1	U	73	HIC	CA-CB-CG-ND1
1	V	73	HIC	O-C-CA-CB
1	V	73	HIC	CA-CB-CG-ND1
1	W	73	HIC	O-C-CA-CB
1	W	73	HIC	CA-CB-CG-ND1

There are no ring outliers.

23 monomers are involved in 43 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	R	73	HIC	1	0
1	I	73	HIC	2	0
1	V	73	HIC	1	0
1	P	73	HIC	2	0
1	N	73	HIC	2	0
1	E	73	HIC	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	73	HIC	2	0
1	T	73	HIC	1	0
1	J	73	HIC	2	0
1	O	73	HIC	2	0
1	C	73	HIC	2	0
1	S	73	HIC	2	0
1	H	73	HIC	2	0
1	F	73	HIC	2	0
1	G	73	HIC	2	0
1	K	73	HIC	2	0
1	W	73	HIC	2	0
1	U	73	HIC	2	0
1	L	73	HIC	2	0
1	M	73	HIC	2	0
1	Q	73	HIC	2	0
1	D	73	HIC	2	0
1	B	73	HIC	2	0

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

23 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	ADP	S	401	-	24,29,29	1.19	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	G	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.39	4 (13%)
2	ADP	Q	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	J	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	P	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	ADP	B	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	V	401	-	24,29,29	1.19	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	F	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	L	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.40	4 (13%)
2	ADP	M	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.40	4 (13%)
2	ADP	D	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	K	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	T	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	I	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.40	4 (13%)
2	ADP	U	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	A	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	R	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	N	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.40	4 (13%)
2	ADP	E	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.40	4 (13%)
2	ADP	W	401	-	24,29,29	1.20	1 (4%)	29,45,45	1.41	4 (13%)
2	ADP	O	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.40	4 (13%)
2	ADP	C	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)
2	ADP	H	401	-	24,29,29	1.20	2 (8%)	29,45,45	1.41	4 (13%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ADP	S	401	-	-	0/12/32/32	0/3/3/3
2	ADP	G	401	-	-	0/12/32/32	0/3/3/3
2	ADP	Q	401	-	-	0/12/32/32	0/3/3/3
2	ADP	J	401	-	-	0/12/32/32	0/3/3/3
2	ADP	P	401	-	-	0/12/32/32	0/3/3/3
2	ADP	B	401	-	-	0/12/32/32	0/3/3/3
2	ADP	V	401	-	-	0/12/32/32	0/3/3/3
2	ADP	F	401	-	-	0/12/32/32	0/3/3/3
2	ADP	L	401	-	-	0/12/32/32	0/3/3/3
2	ADP	M	401	-	-	0/12/32/32	0/3/3/3
2	ADP	D	401	-	-	0/12/32/32	0/3/3/3
2	ADP	K	401	-	-	0/12/32/32	0/3/3/3
2	ADP	T	401	-	-	0/12/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	ADP	I	401	-	-	0/12/32/32	0/3/3/3
2	ADP	U	401	-	-	0/12/32/32	0/3/3/3
2	ADP	A	401	-	-	0/12/32/32	0/3/3/3
2	ADP	R	401	-	-	0/12/32/32	0/3/3/3
2	ADP	N	401	-	-	0/12/32/32	0/3/3/3
2	ADP	E	401	-	-	0/12/32/32	0/3/3/3
2	ADP	W	401	-	-	0/12/32/32	0/3/3/3
2	ADP	O	401	-	-	0/12/32/32	0/3/3/3
2	ADP	C	401	-	-	0/12/32/32	0/3/3/3
2	ADP	H	401	-	-	0/12/32/32	0/3/3/3

All (35) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	P	401	ADP	C2-N1	2.99	1.39	1.33
2	U	401	ADP	C2-N1	2.99	1.39	1.33
2	C	401	ADP	C2-N1	2.99	1.39	1.33
2	D	401	ADP	C2-N1	2.98	1.39	1.33
2	M	401	ADP	C2-N1	2.98	1.39	1.33
2	V	401	ADP	C2-N1	2.98	1.39	1.33
2	G	401	ADP	C2-N1	2.98	1.39	1.33
2	F	401	ADP	C2-N1	2.97	1.39	1.33
2	E	401	ADP	C2-N1	2.96	1.39	1.33
2	O	401	ADP	C2-N1	2.96	1.39	1.33
2	B	401	ADP	C2-N1	2.96	1.39	1.33
2	A	401	ADP	C2-N1	2.95	1.39	1.33
2	T	401	ADP	C2-N1	2.95	1.39	1.33
2	K	401	ADP	C2-N1	2.95	1.39	1.33
2	J	401	ADP	C2-N1	2.95	1.39	1.33
2	N	401	ADP	C2-N1	2.95	1.39	1.33
2	W	401	ADP	C2-N1	2.95	1.39	1.33
2	H	401	ADP	C2-N1	2.94	1.39	1.33
2	R	401	ADP	C2-N1	2.94	1.39	1.33
2	L	401	ADP	C2-N1	2.94	1.39	1.33
2	I	401	ADP	C2-N1	2.94	1.39	1.33
2	Q	401	ADP	C2-N1	2.93	1.39	1.33
2	S	401	ADP	C2-N1	2.92	1.39	1.33
2	L	401	ADP	C2'-C1'	-2.06	1.50	1.53
2	H	401	ADP	C2'-C1'	-2.05	1.50	1.53
2	T	401	ADP	C2'-C1'	-2.03	1.50	1.53
2	G	401	ADP	C2'-C1'	-2.03	1.50	1.53
2	O	401	ADP	C2'-C1'	-2.03	1.50	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	I	401	ADP	C2'-C1'	-2.03	1.50	1.53
2	S	401	ADP	C2'-C1'	-2.02	1.50	1.53
2	F	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	M	401	ADP	C8-N7	-2.01	1.31	1.34
2	E	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	A	401	ADP	C2'-C1'	-2.01	1.50	1.53
2	C	401	ADP	C2'-C1'	-2.00	1.50	1.53

All (92) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	S	401	ADP	C4-C5-N7	3.95	113.52	109.40
2	C	401	ADP	C4-C5-N7	3.93	113.50	109.40
2	W	401	ADP	C4-C5-N7	3.93	113.49	109.40
2	A	401	ADP	C4-C5-N7	3.92	113.49	109.40
2	F	401	ADP	C4-C5-N7	3.92	113.48	109.40
2	O	401	ADP	C4-C5-N7	3.91	113.48	109.40
2	H	401	ADP	C4-C5-N7	3.91	113.47	109.40
2	I	401	ADP	C4-C5-N7	3.91	113.47	109.40
2	K	401	ADP	C4-C5-N7	3.90	113.47	109.40
2	N	401	ADP	C4-C5-N7	3.90	113.46	109.40
2	B	401	ADP	C4-C5-N7	3.89	113.46	109.40
2	Q	401	ADP	C4-C5-N7	3.89	113.46	109.40
2	U	401	ADP	C4-C5-N7	3.89	113.46	109.40
2	G	401	ADP	C4-C5-N7	3.89	113.45	109.40
2	T	401	ADP	C4-C5-N7	3.89	113.45	109.40
2	V	401	ADP	C4-C5-N7	3.89	113.45	109.40
2	D	401	ADP	C4-C5-N7	3.89	113.45	109.40
2	R	401	ADP	C4-C5-N7	3.89	113.45	109.40
2	P	401	ADP	C4-C5-N7	3.88	113.44	109.40
2	J	401	ADP	C4-C5-N7	3.87	113.44	109.40
2	M	401	ADP	C4-C5-N7	3.87	113.44	109.40
2	L	401	ADP	C4-C5-N7	3.87	113.43	109.40
2	E	401	ADP	C4-C5-N7	3.86	113.42	109.40
2	W	401	ADP	C2-N1-C6	2.20	122.52	118.75
2	C	401	ADP	N3-C2-N1	-2.20	125.24	128.68
2	L	401	ADP	C2-N1-C6	2.20	122.51	118.75
2	K	401	ADP	N3-C2-N1	-2.20	125.25	128.68
2	C	401	ADP	C2-N1-C6	2.19	122.51	118.75
2	A	401	ADP	C2-N1-C6	2.19	122.50	118.75
2	D	401	ADP	N3-C2-N1	-2.19	125.25	128.68
2	P	401	ADP	N3-C2-N1	-2.19	125.25	128.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	401	ADP	C2-N1-C6	2.19	122.50	118.75
2	K	401	ADP	C2-N1-C6	2.19	122.50	118.75
2	E	401	ADP	C2-N1-C6	2.19	122.50	118.75
2	H	401	ADP	C2-N1-C6	2.19	122.50	118.75
2	T	401	ADP	C2-N1-C6	2.19	122.49	118.75
2	A	401	ADP	N3-C2-N1	-2.18	125.27	128.68
2	P	401	ADP	C2-N1-C6	2.18	122.48	118.75
2	V	401	ADP	N3-C2-N1	-2.18	125.27	128.68
2	M	401	ADP	C2-N1-C6	2.18	122.48	118.75
2	V	401	ADP	C2-N1-C6	2.18	122.48	118.75
2	L	401	ADP	N3-C2-N1	-2.18	125.28	128.68
2	M	401	ADP	N3-C2-N1	-2.18	125.28	128.68
2	B	401	ADP	C2-N1-C6	2.17	122.47	118.75
2	N	401	ADP	C2-N1-C6	2.17	122.47	118.75
2	R	401	ADP	N3-C2-N1	-2.17	125.28	128.68
2	F	401	ADP	C2-N1-C6	2.17	122.47	118.75
2	O	401	ADP	N3-C2-N1	-2.17	125.28	128.68
2	R	401	ADP	C2-N1-C6	2.17	122.47	118.75
2	T	401	ADP	N3-C2-N1	-2.17	125.28	128.68
2	B	401	ADP	N3-C2-N1	-2.17	125.28	128.68
2	H	401	ADP	N3-C2-N1	-2.17	125.29	128.68
2	W	401	ADP	N3-C2-N1	-2.17	125.29	128.68
2	E	401	ADP	N3-C2-N1	-2.17	125.29	128.68
2	O	401	ADP	C2-N1-C6	2.17	122.46	118.75
2	F	401	ADP	N3-C2-N1	-2.16	125.30	128.68
2	U	401	ADP	N3-C2-N1	-2.16	125.30	128.68
2	S	401	ADP	C2-N1-C6	2.16	122.45	118.75
2	J	401	ADP	C2-N1-C6	2.16	122.45	118.75
2	Q	401	ADP	N3-C2-N1	-2.16	125.31	128.68
2	I	401	ADP	C2-N1-C6	2.16	122.44	118.75
2	Q	401	ADP	C2-N1-C6	2.16	122.44	118.75
2	U	401	ADP	C2-N1-C6	2.16	122.44	118.75
2	I	401	ADP	N3-C2-N1	-2.15	125.31	128.68
2	N	401	ADP	N3-C2-N1	-2.15	125.32	128.68
2	G	401	ADP	N3-C2-N1	-2.15	125.32	128.68
2	J	401	ADP	N3-C2-N1	-2.14	125.34	128.68
2	G	401	ADP	C2-N1-C6	2.13	122.40	118.75
2	S	401	ADP	N3-C2-N1	-2.13	125.35	128.68
2	V	401	ADP	O3B-PB-O2B	2.10	115.68	107.64
2	T	401	ADP	O3B-PB-O2B	2.10	115.67	107.64
2	D	401	ADP	O3B-PB-O2B	2.10	115.66	107.64
2	S	401	ADP	O3B-PB-O2B	2.10	115.66	107.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	M	401	ADP	O3B-PB-O2B	2.10	115.66	107.64
2	W	401	ADP	O3B-PB-O2B	2.10	115.65	107.64
2	Q	401	ADP	O3B-PB-O2B	2.10	115.65	107.64
2	F	401	ADP	O3B-PB-O2B	2.10	115.65	107.64
2	N	401	ADP	O3B-PB-O2B	2.09	115.64	107.64
2	J	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	C	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	I	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	U	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	A	401	ADP	O3B-PB-O2B	2.09	115.63	107.64
2	H	401	ADP	O3B-PB-O2B	2.09	115.62	107.64
2	B	401	ADP	O3B-PB-O2B	2.09	115.62	107.64
2	L	401	ADP	O3B-PB-O2B	2.09	115.62	107.64
2	P	401	ADP	O3B-PB-O2B	2.09	115.62	107.64
2	E	401	ADP	O3B-PB-O2B	2.09	115.61	107.64
2	O	401	ADP	O3B-PB-O2B	2.09	115.61	107.64
2	K	401	ADP	O3B-PB-O2B	2.08	115.59	107.64
2	G	401	ADP	O3B-PB-O2B	2.08	115.59	107.64
2	R	401	ADP	O3B-PB-O2B	2.07	115.57	107.64

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

23 monomers are involved in 95 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	S	401	ADP	4	0
2	G	401	ADP	4	0
2	Q	401	ADP	4	0
2	J	401	ADP	4	0
2	P	401	ADP	4	0
2	B	401	ADP	5	0
2	V	401	ADP	4	0
2	F	401	ADP	4	0
2	L	401	ADP	4	0
2	M	401	ADP	4	0
2	D	401	ADP	5	0
2	K	401	ADP	5	0
2	T	401	ADP	4	0
2	I	401	ADP	4	0
2	U	401	ADP	4	0

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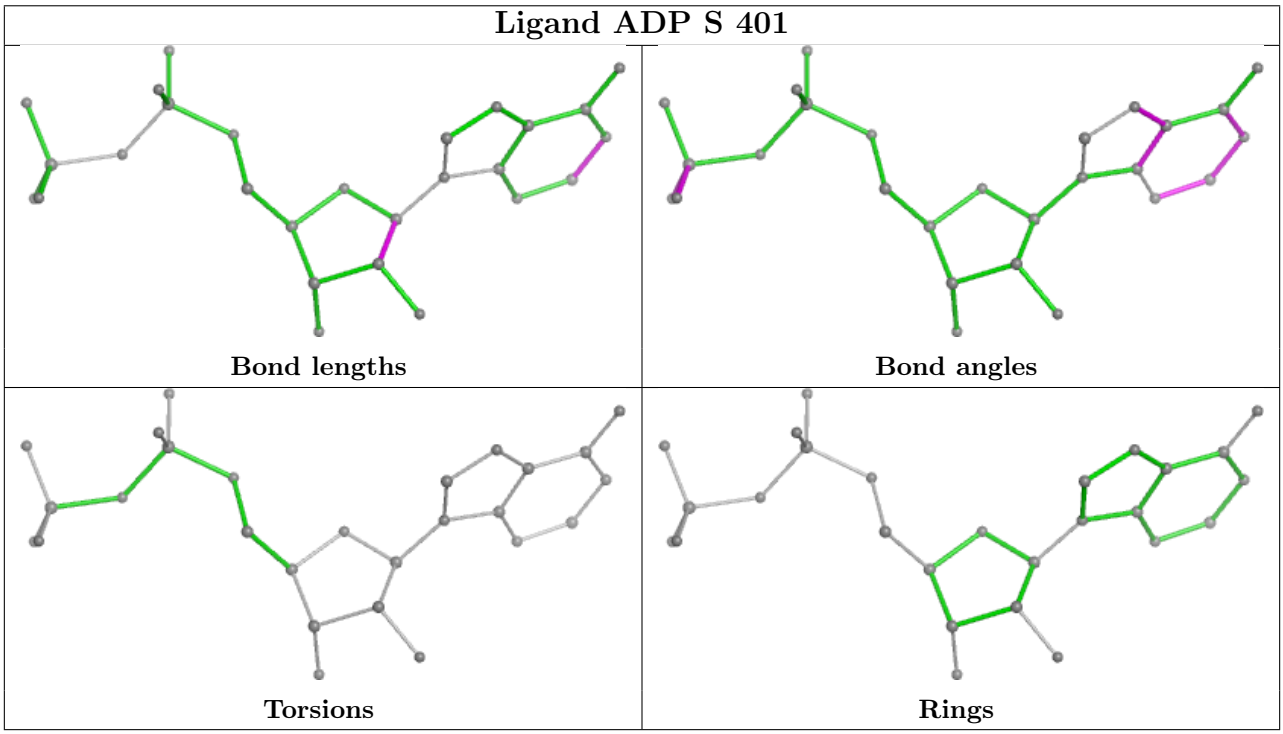
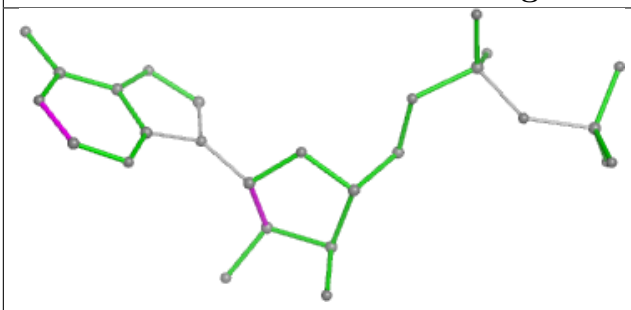
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	ADP	4	0
2	R	401	ADP	4	0
2	N	401	ADP	4	0
2	E	401	ADP	4	0
2	W	401	ADP	4	0
2	O	401	ADP	4	0
2	C	401	ADP	4	0
2	H	401	ADP	4	0

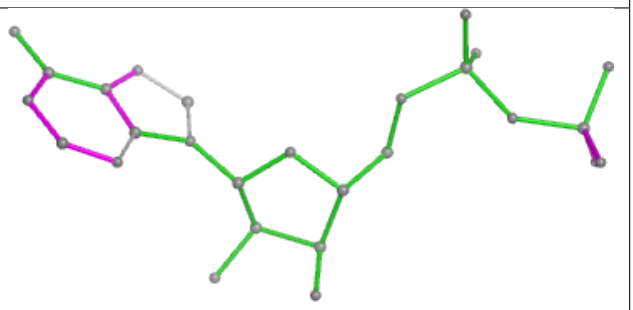
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



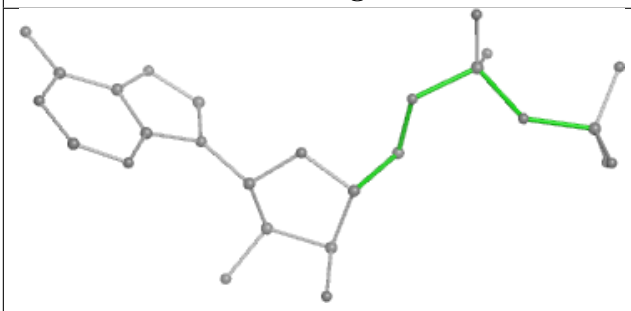
Ligand ADP G 401



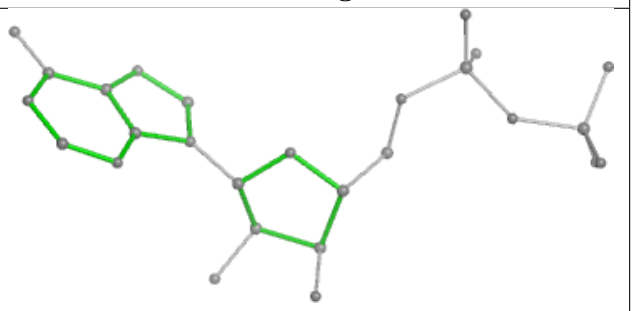
Bond lengths



Bond angles

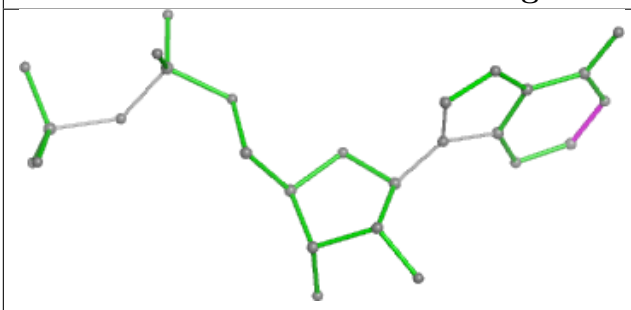


Torsions

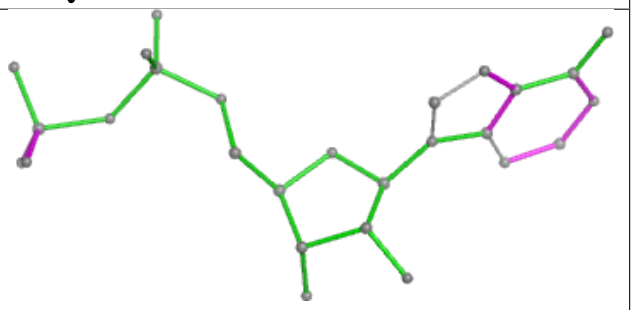


Rings

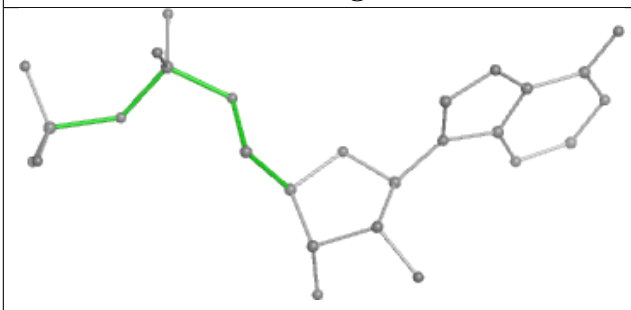
Ligand ADP Q 401



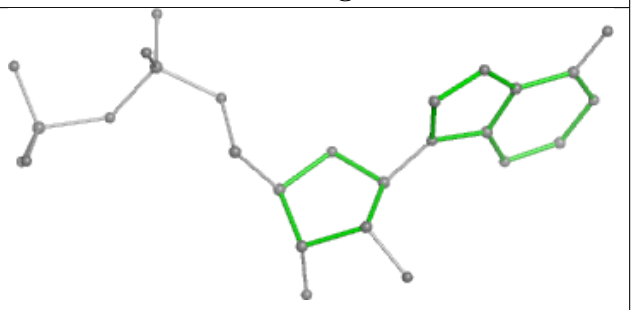
Bond lengths



Bond angles

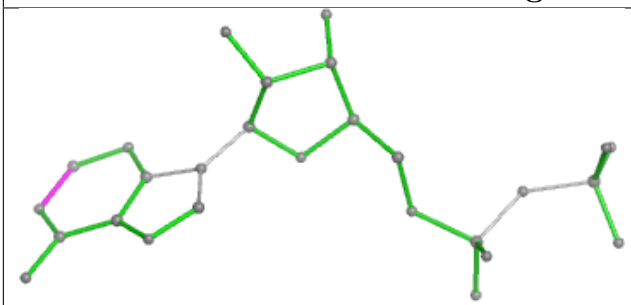


Torsions

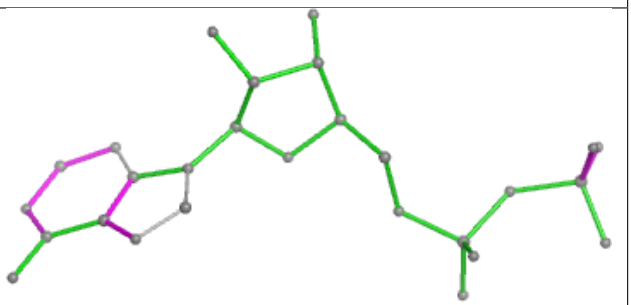


Rings

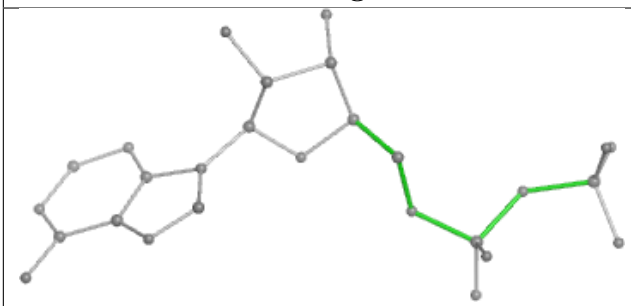
Ligand ADP J 401



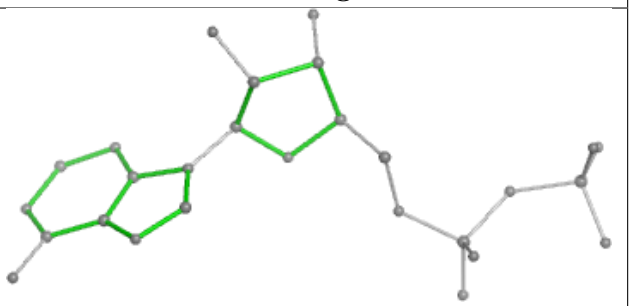
Bond lengths



Bond angles

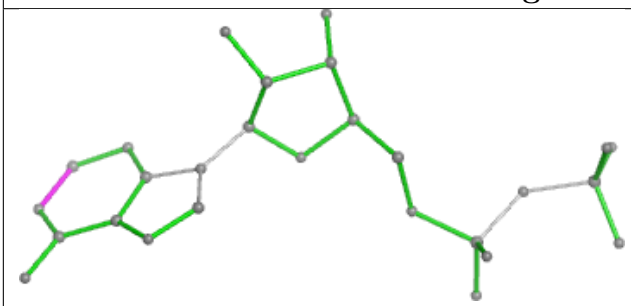


Torsions

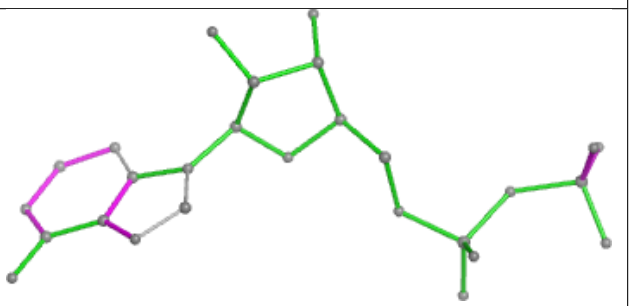


Rings

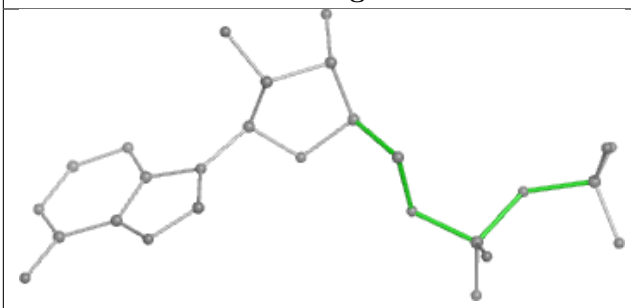
Ligand ADP P 401



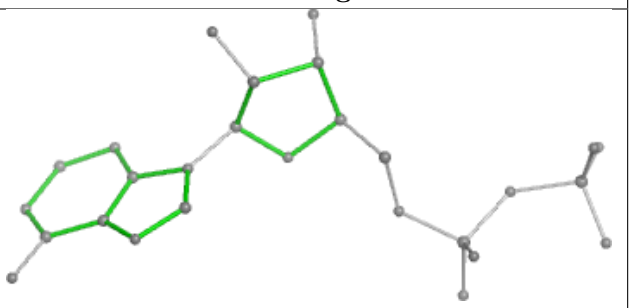
Bond lengths



Bond angles

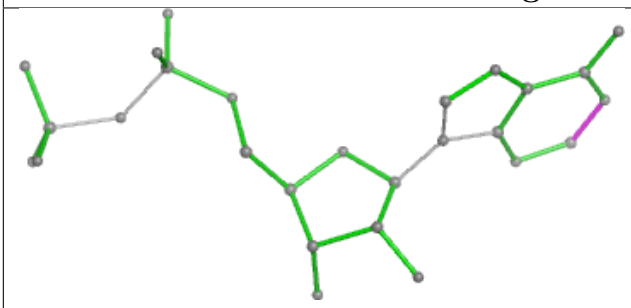


Torsions



Rings

Ligand ADP B 401



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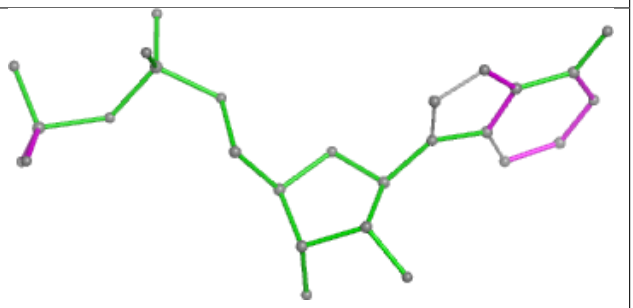
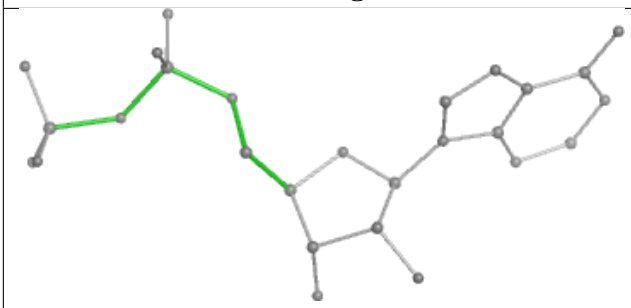


Bond angles



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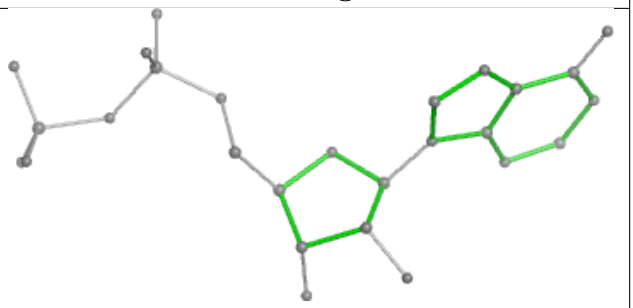

Rings

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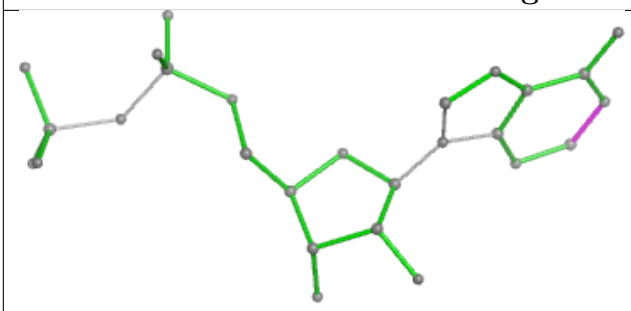

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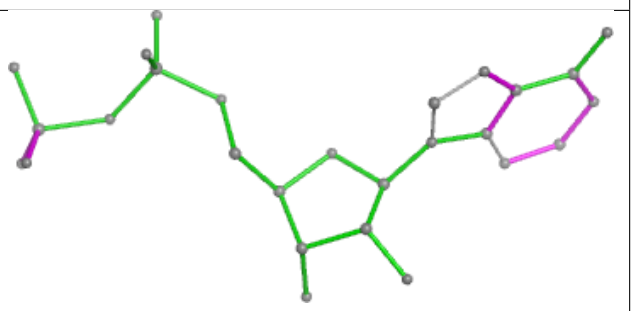
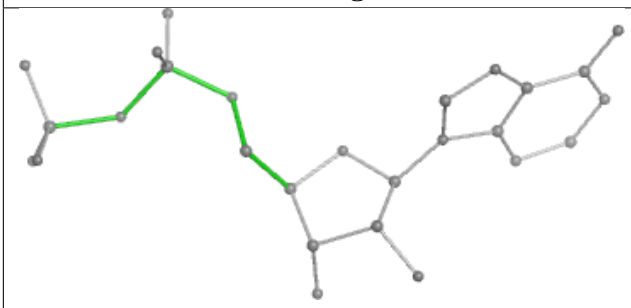


Bond angles



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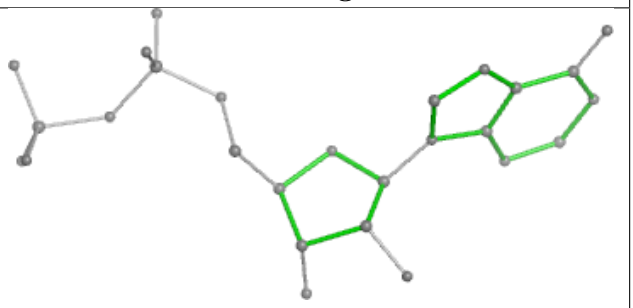
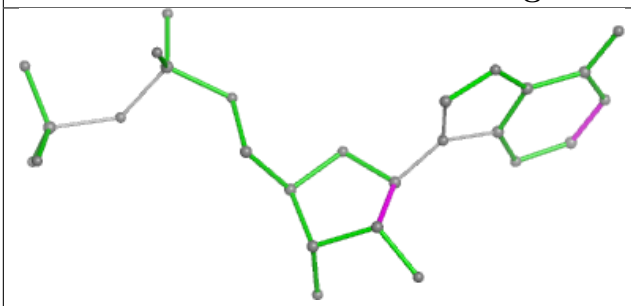


Rings

Ligand ADP F 401



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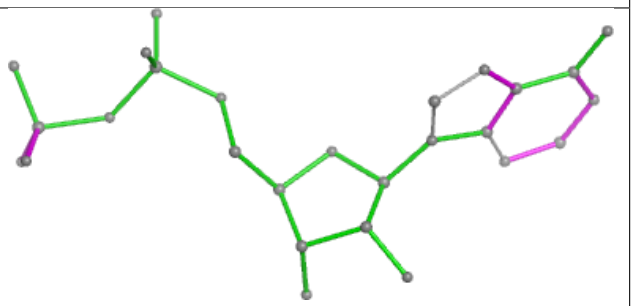

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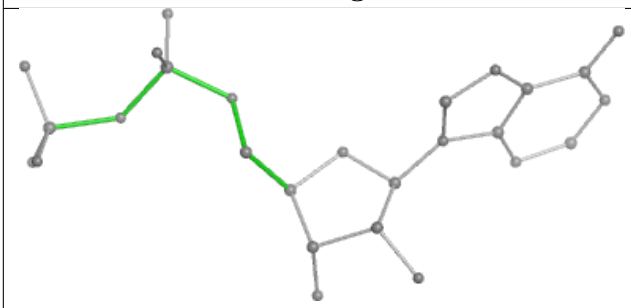

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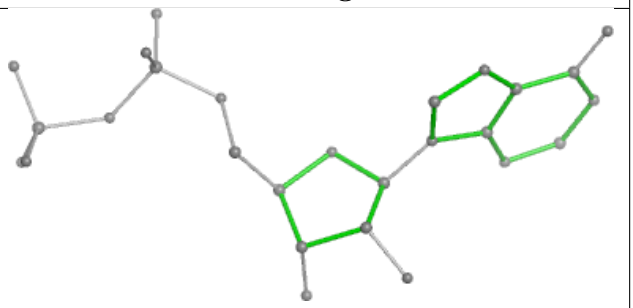
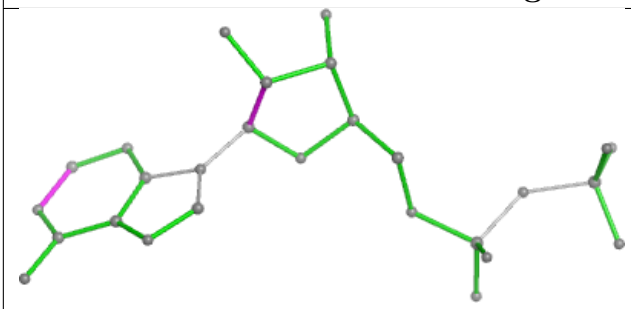


Rings

Ligand ADP L 401



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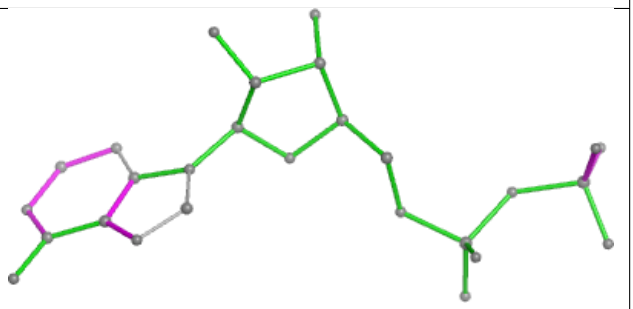
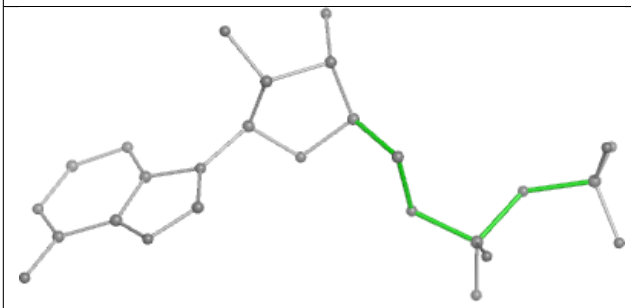


Bond angles



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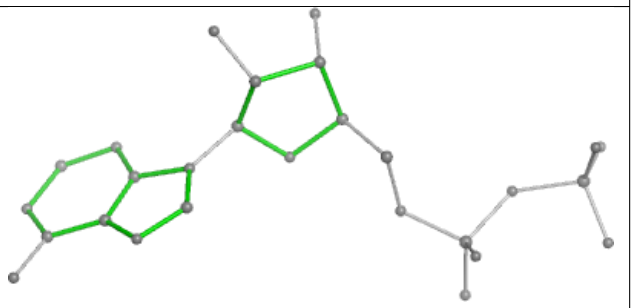
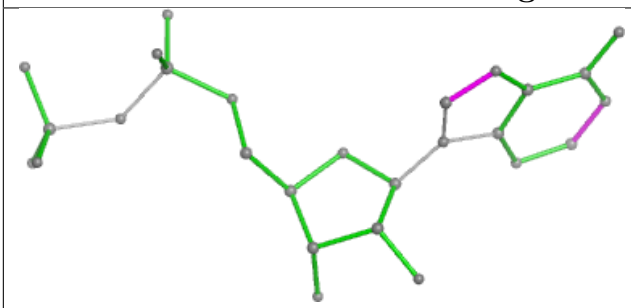
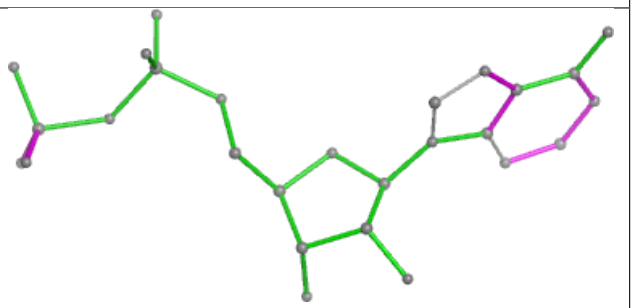


Rings

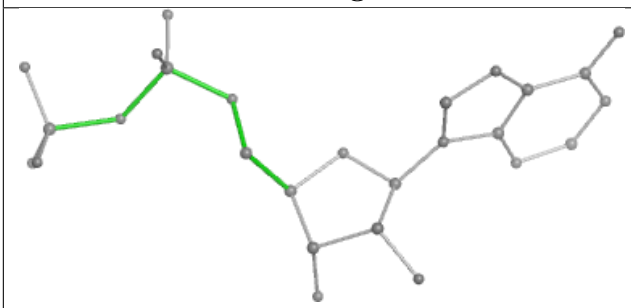
Ligand ADP M 401



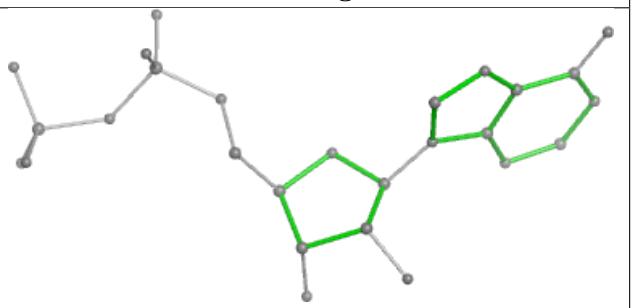
Bond lengths



Bond angles

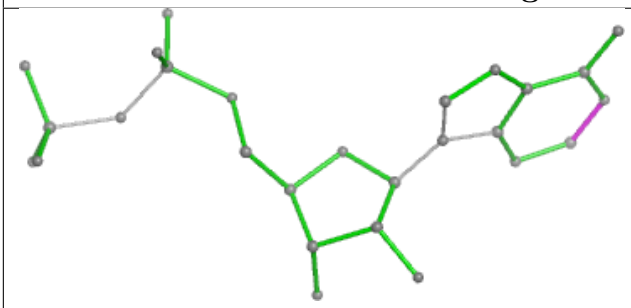


Torsions

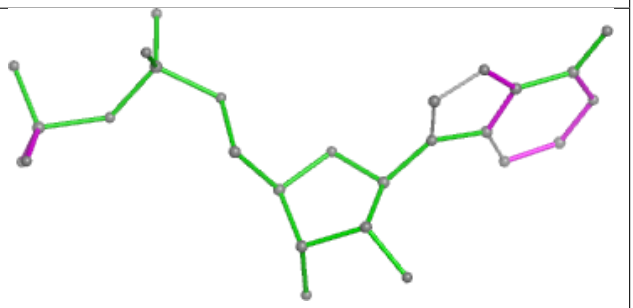


Rings

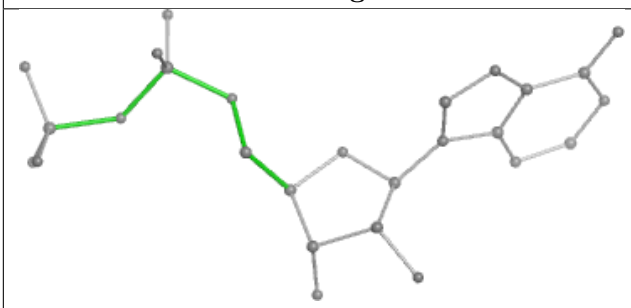
Ligand ADP D 401



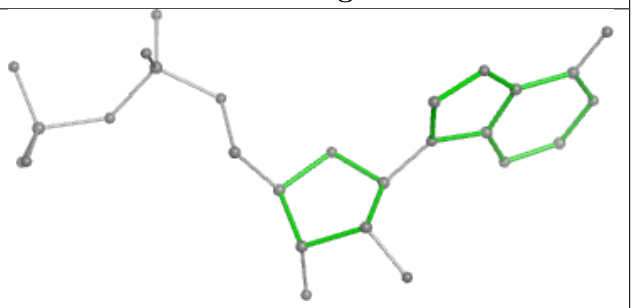
Bond lengths



Bond angles

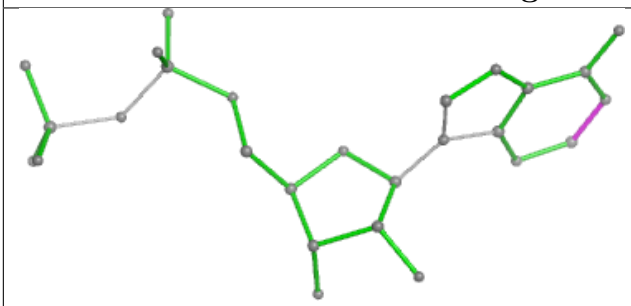


Torsions

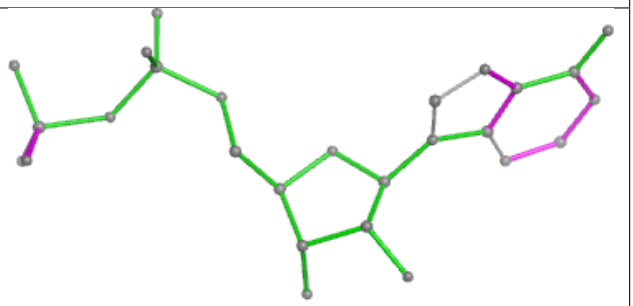


Rings

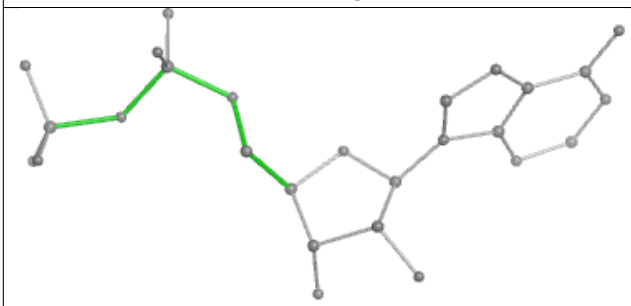
Ligand ADP K 401



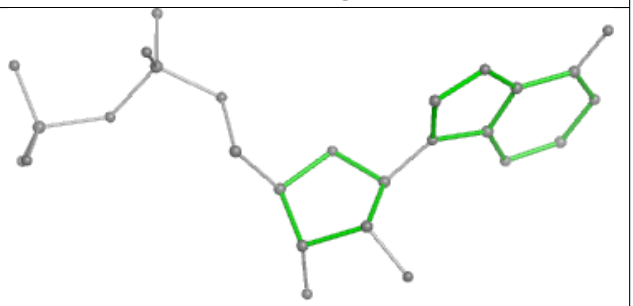
Bond lengths



Bond angles

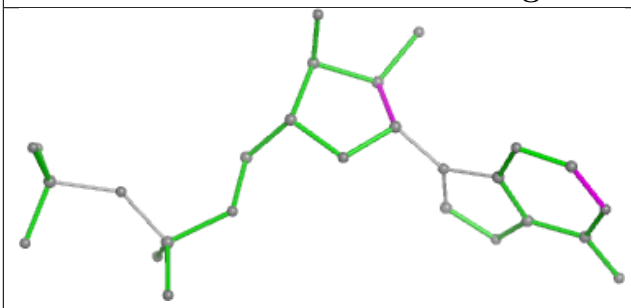


Torsions

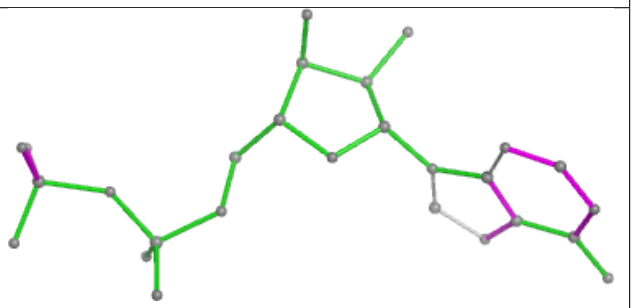


Rings

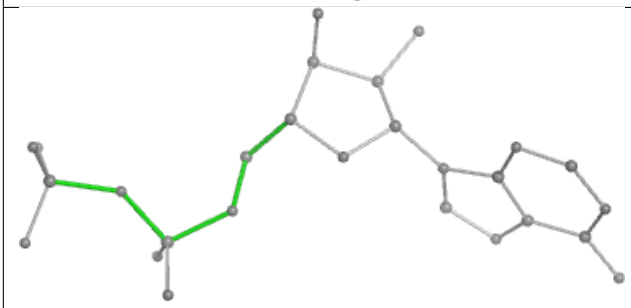
Ligand ADP T 401



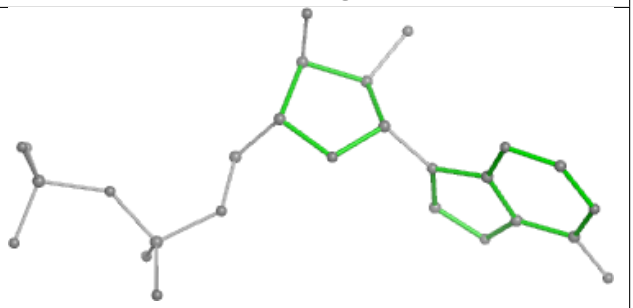
Bond lengths



Bond angles

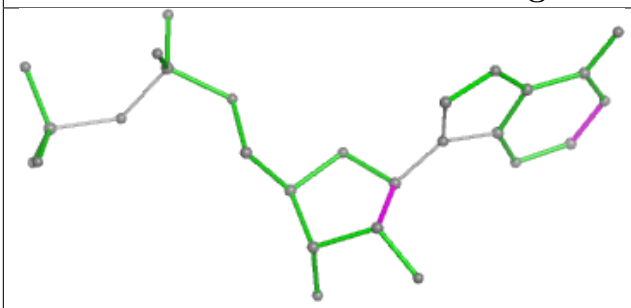


Torsions

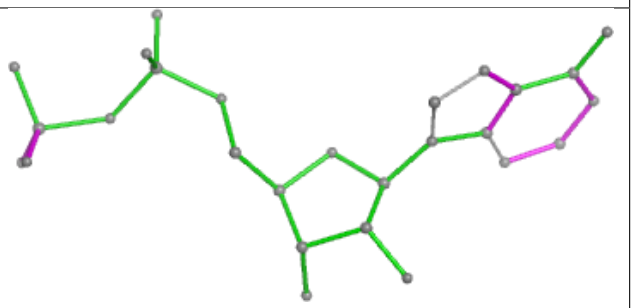


Rings

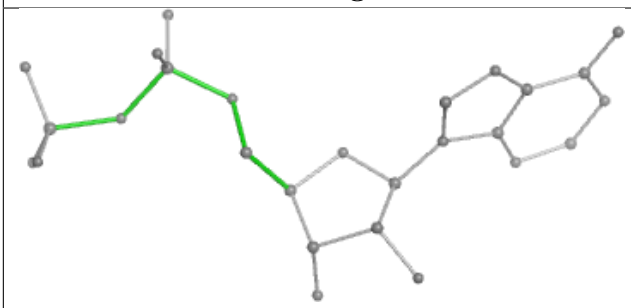
Ligand ADP I 401



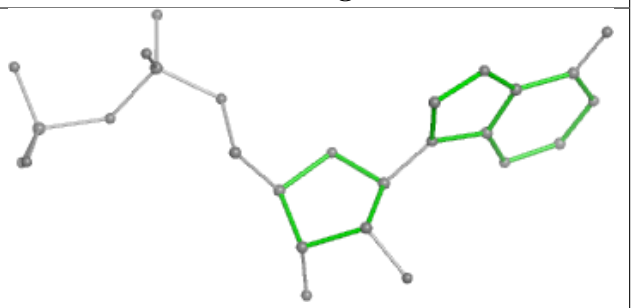
Bond lengths



Bond angles

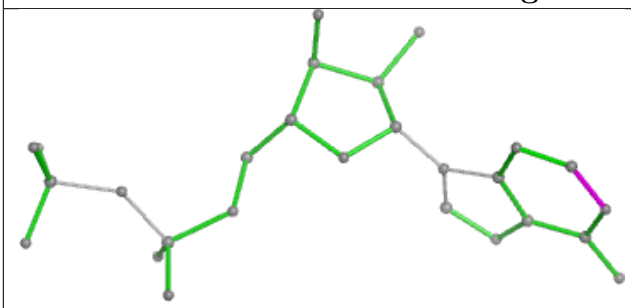


Torsions



Rings

Ligand ADP U 401



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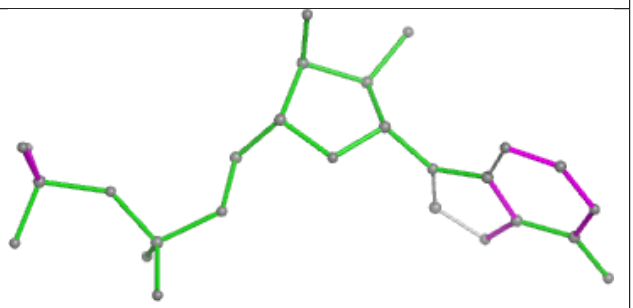
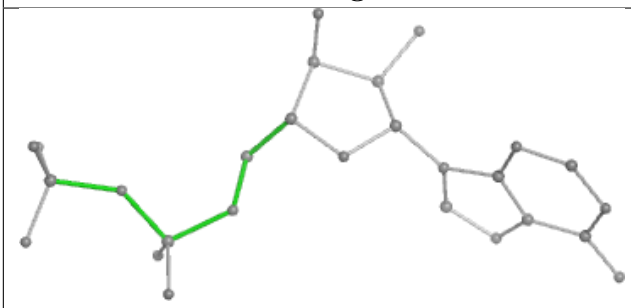
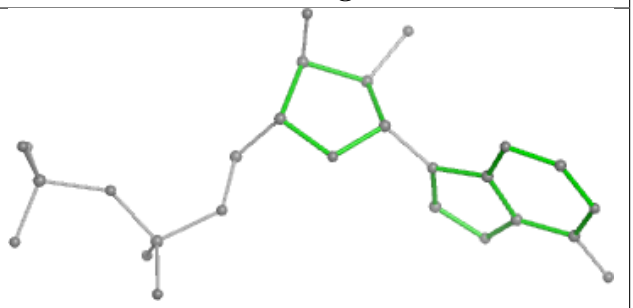


Bond angles

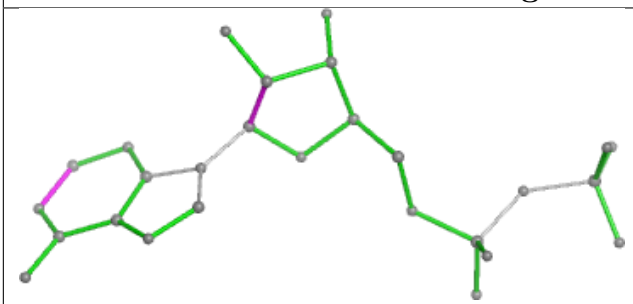


Torsions

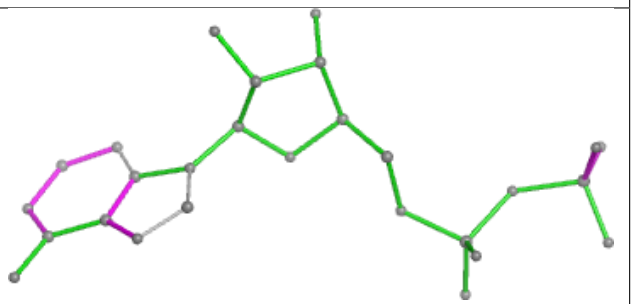


Rings

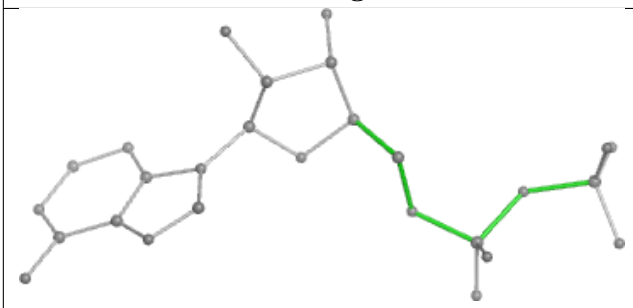
Ligand ADP A 401



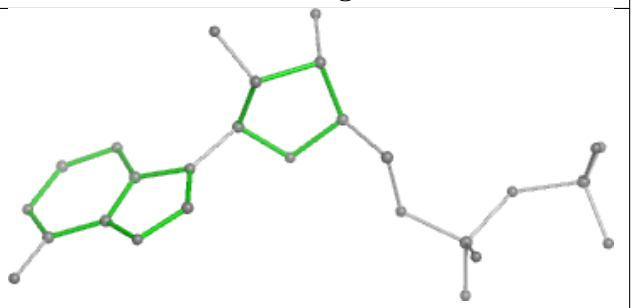
Bond lengths



Bond angles

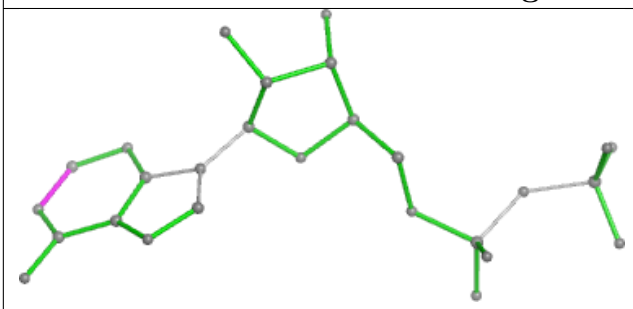


Torsions

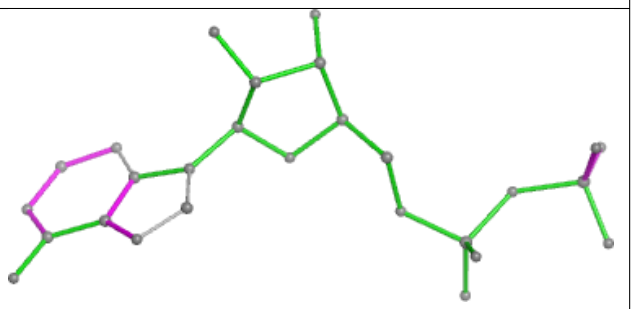


Rings

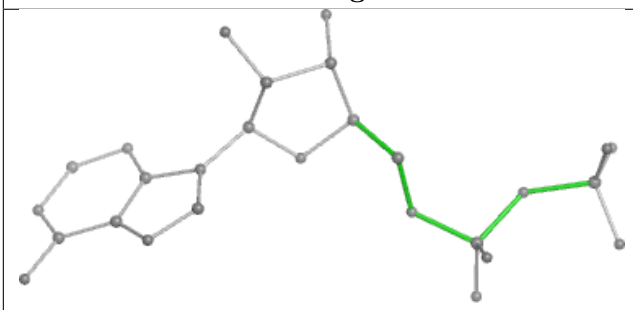
Ligand ADP R 401



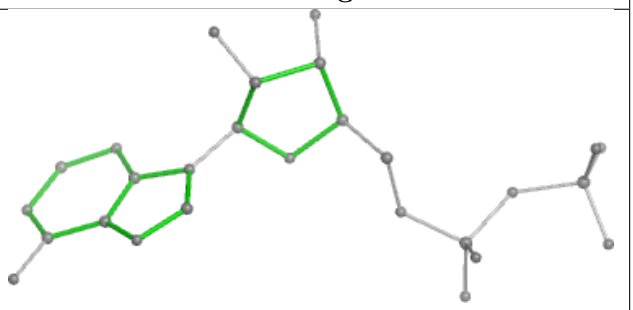
Bond lengths



Bond angles

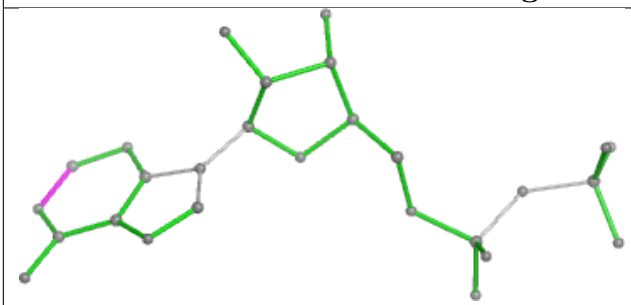


Torsions

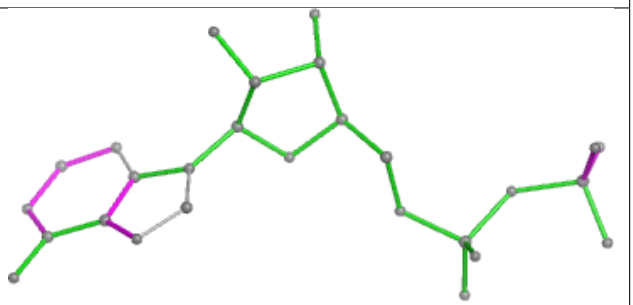


Rings

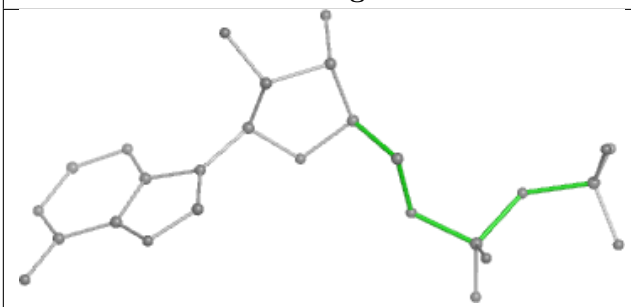
Ligand ADP N 401



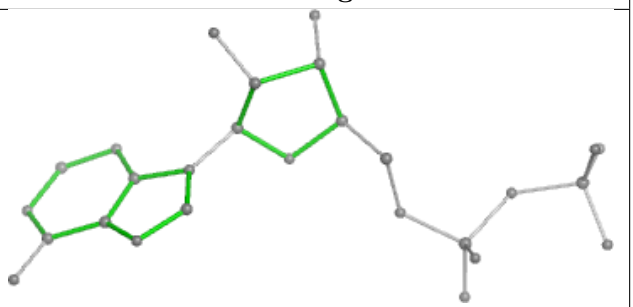
Bond lengths



Bond angles

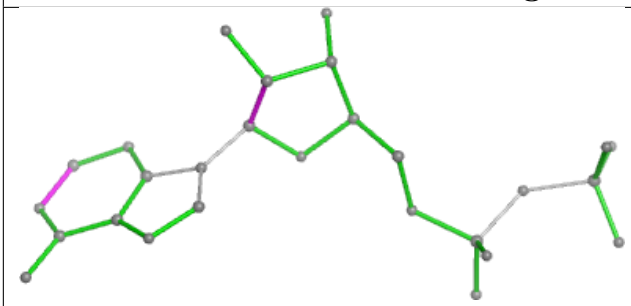


Torsions

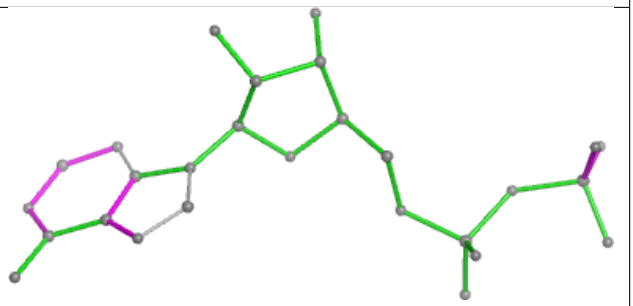


Rings

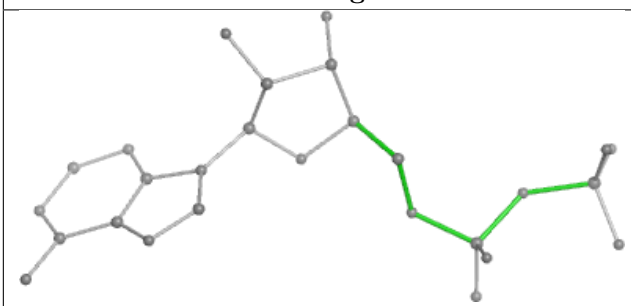
Ligand ADP E 401



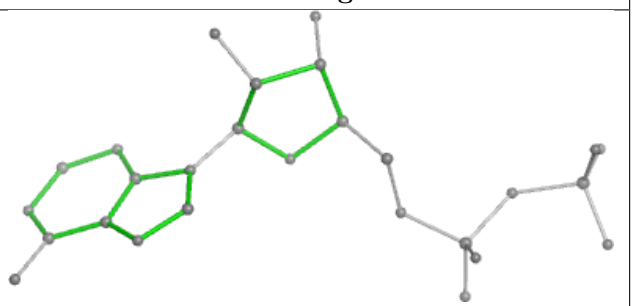
Bond lengths



Bond angles

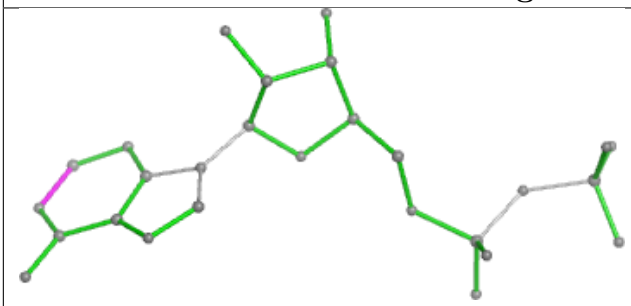


Torsions

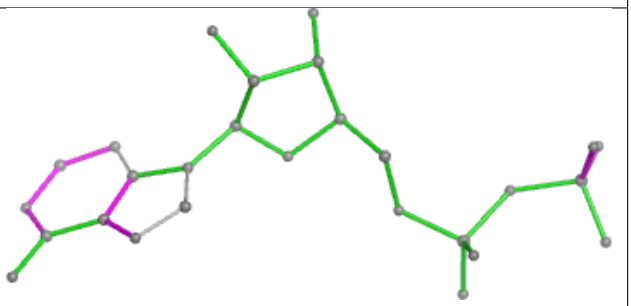


Rings

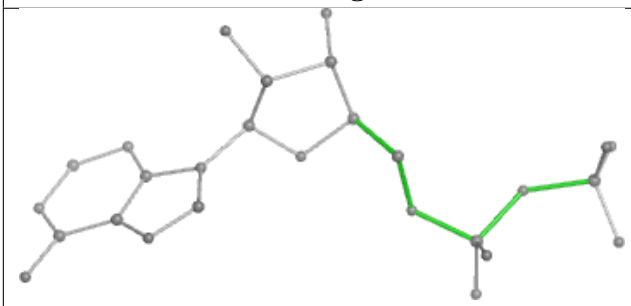
Ligand ADP W 401



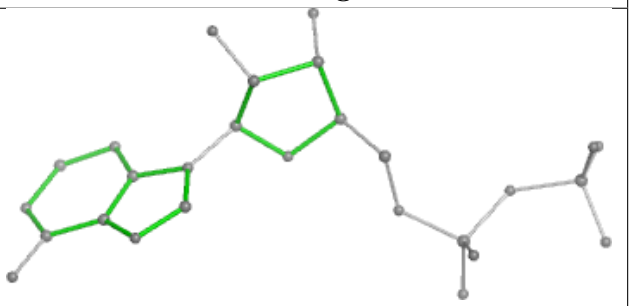
Bond lengths



Bond angles

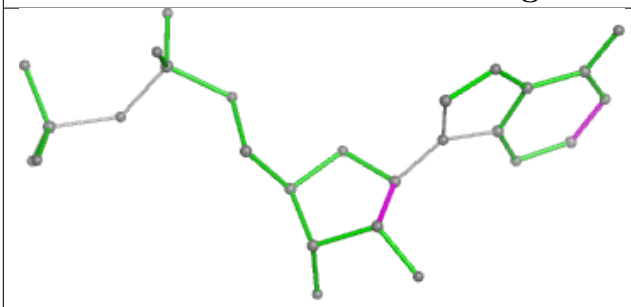


Torsions

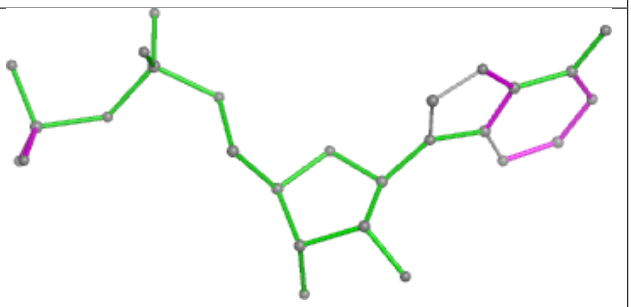


Rings

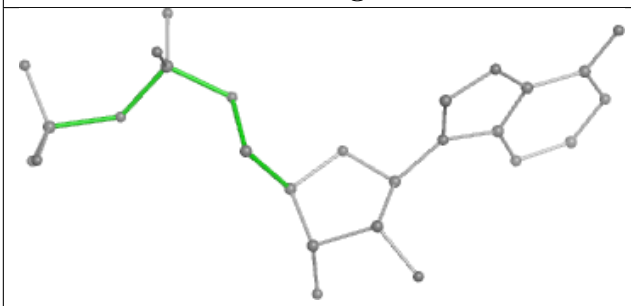
Ligand ADP O 401



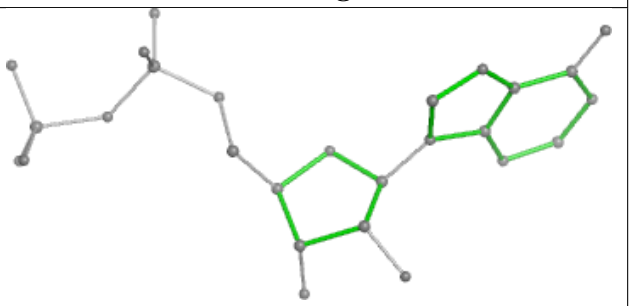
Bond lengths



Bond angles

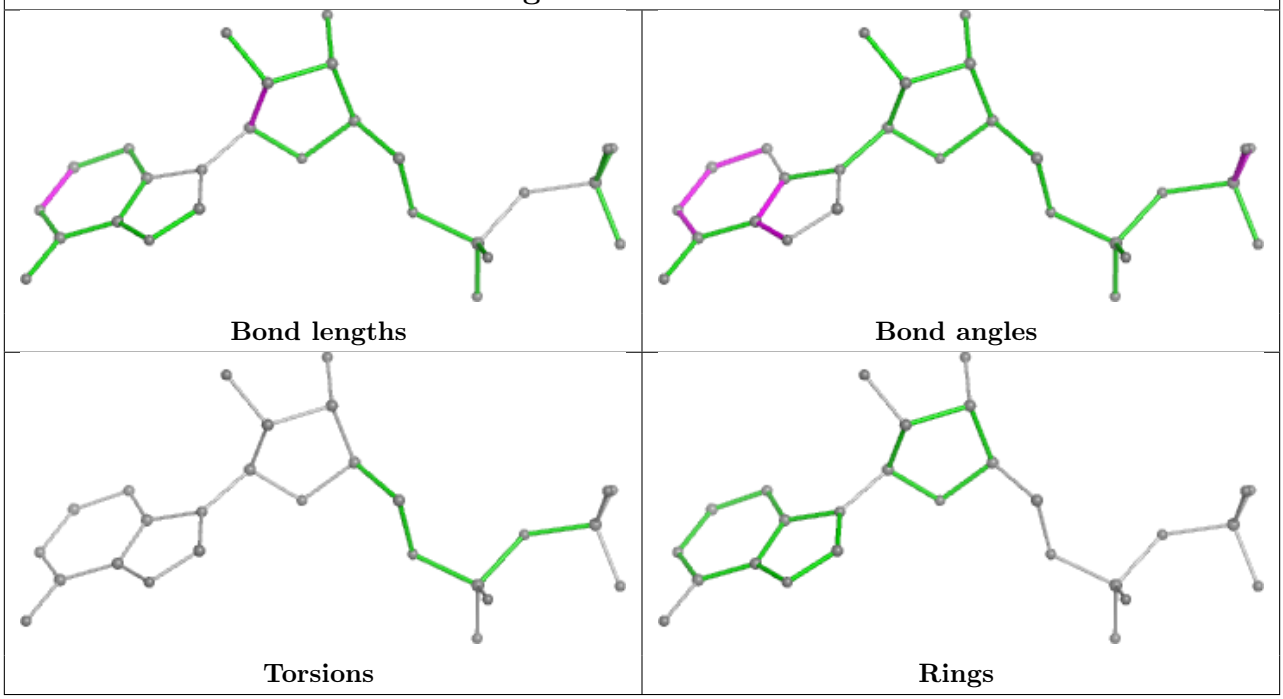


Torsions

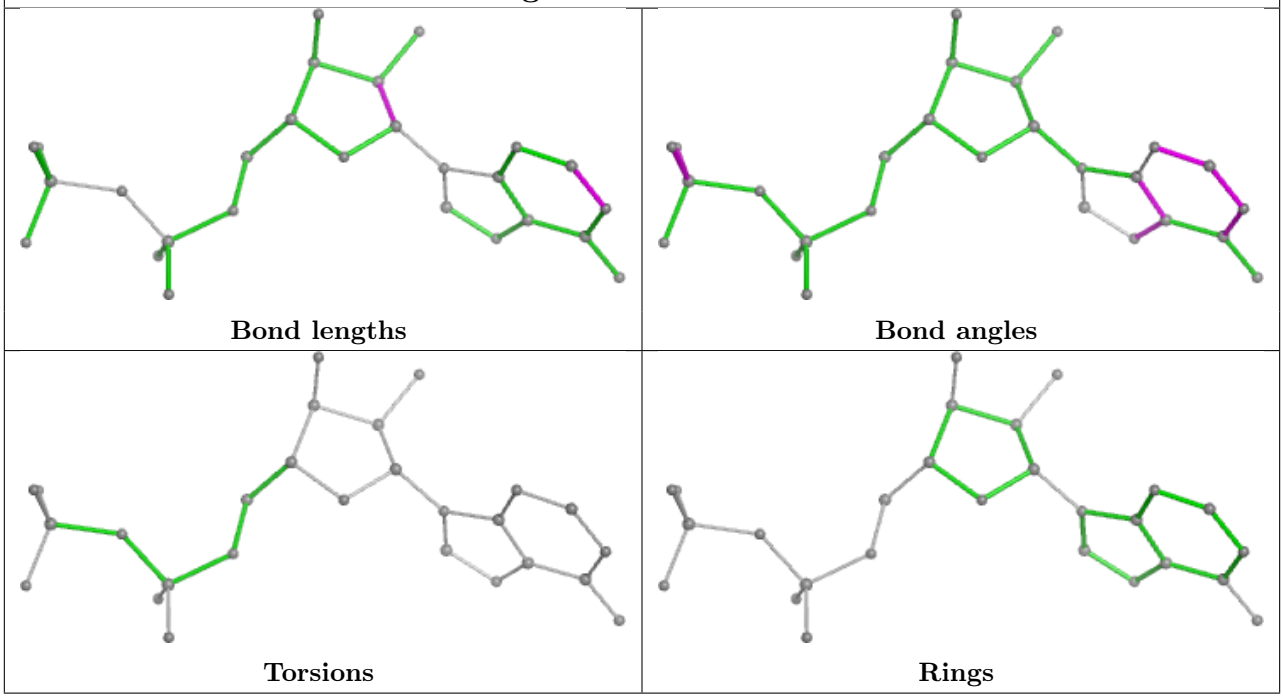


Rings

Ligand ADP C 401



Ligand ADP H 401



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

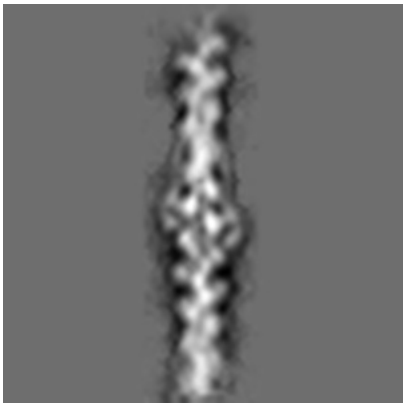
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-3576. 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.

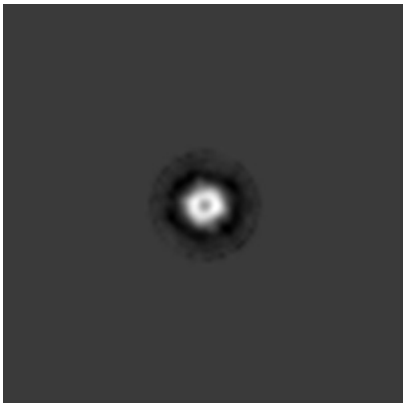
6.1 Orthogonal projections

6.1.1 Primary map



X

Y

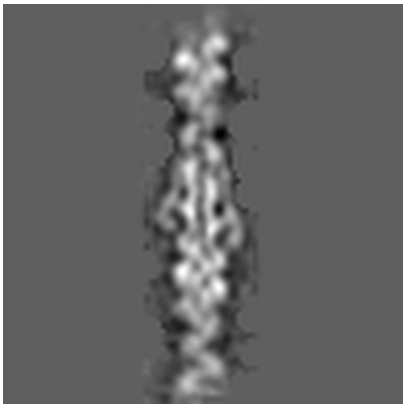


Z

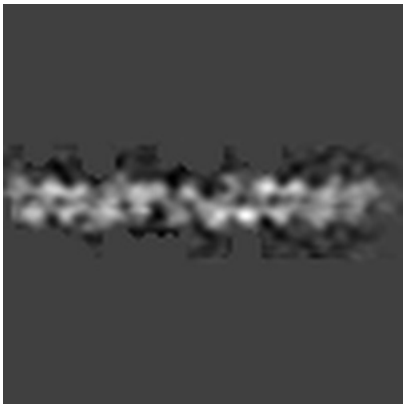
The images above show the map projected in three orthogonal directions.

6.2 Central slices

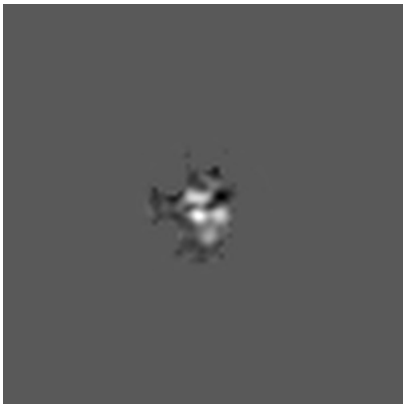
6.2.1 Primary map



X Index: 48



Y Index: 48

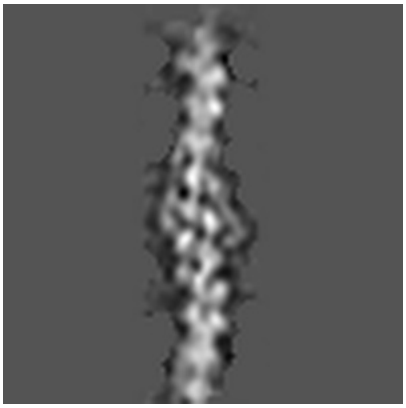


Z Index: 48

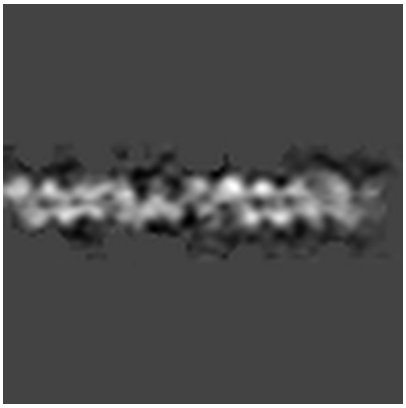
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map



X Index: 50



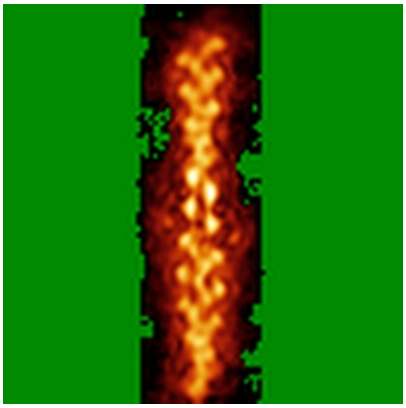
Y Index: 46

Z Index: 35

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 (i)

6.5.1 Primary map

X Y Z

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

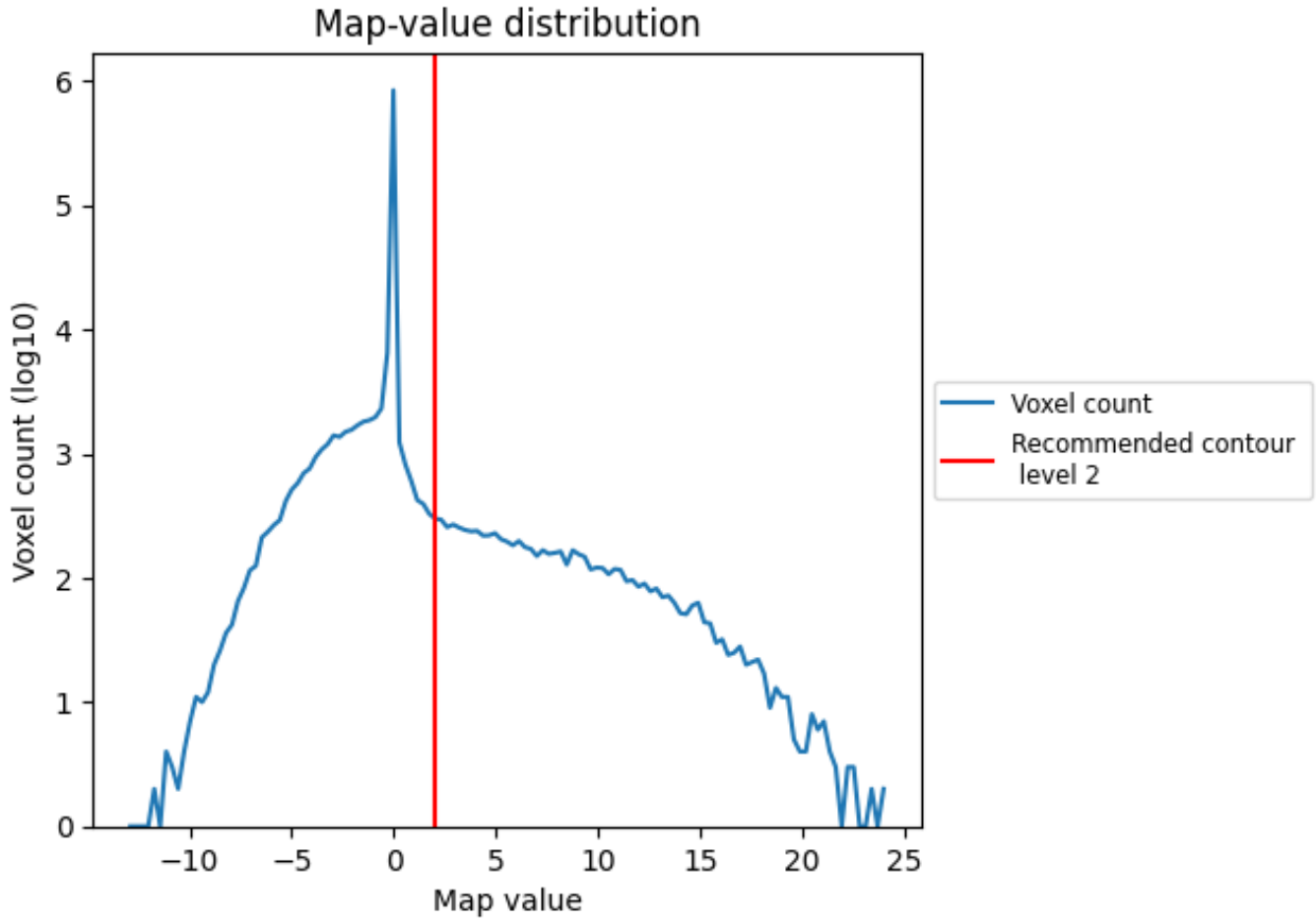
6.6 Mask visualisation (i)

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

7 Map analysis

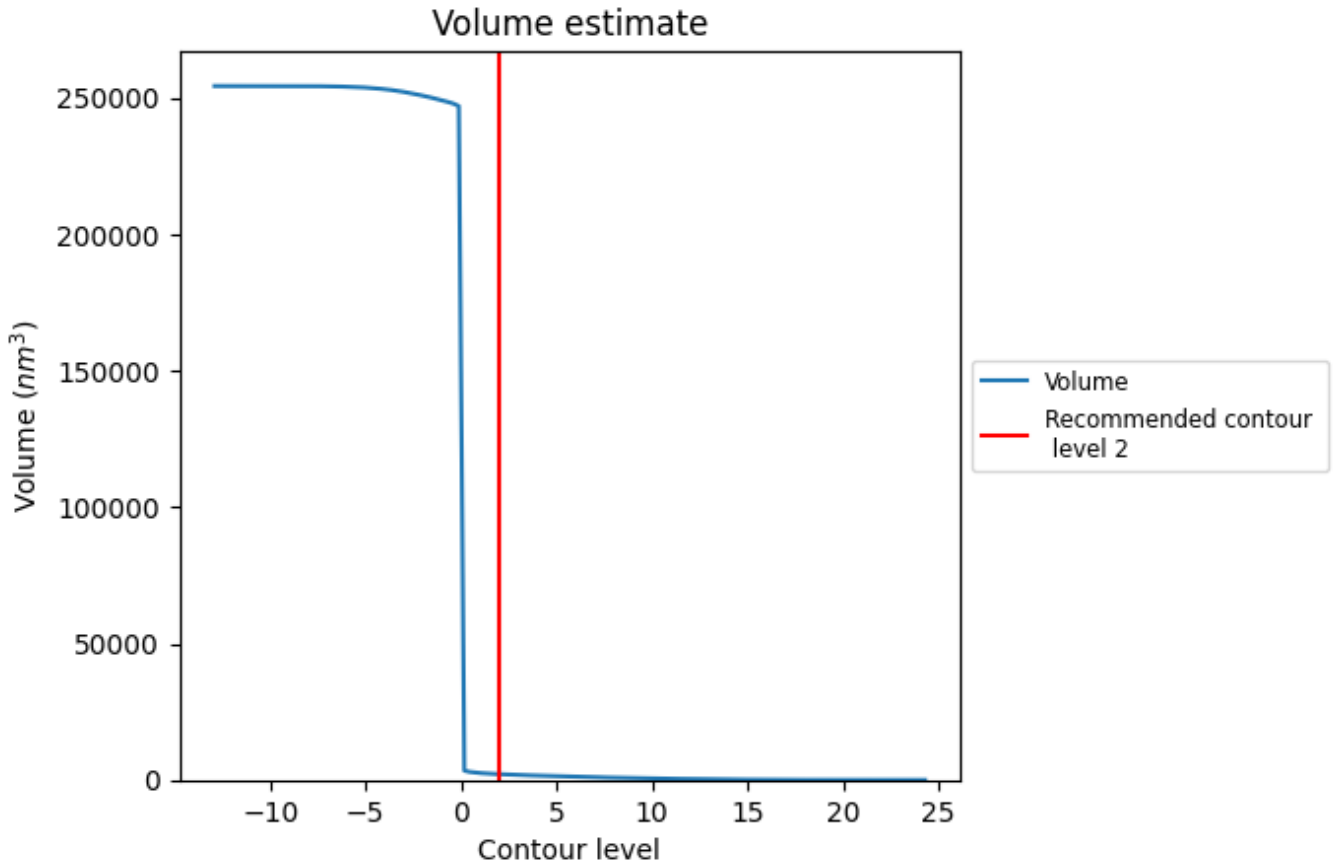
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

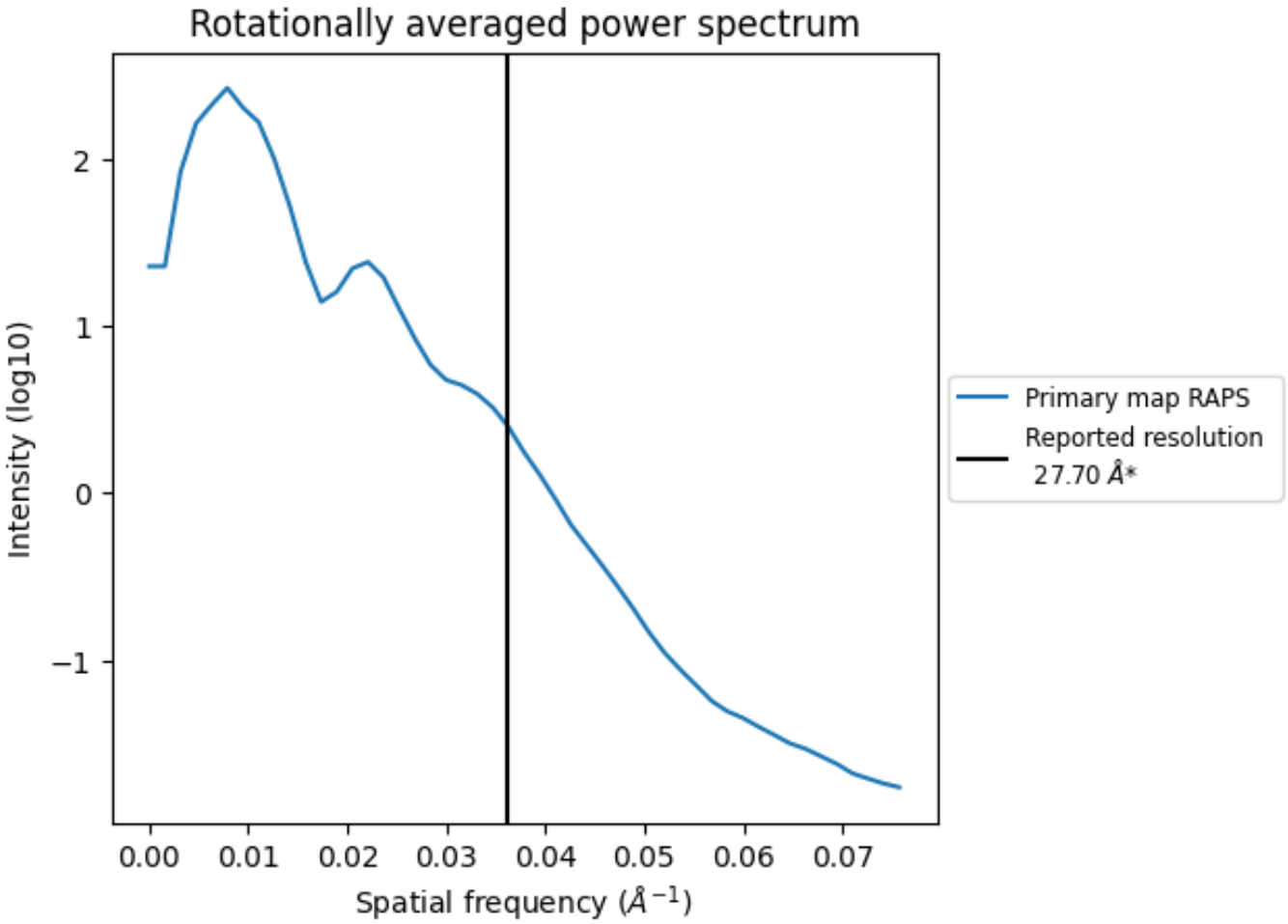
7.2 Volume estimate



The volume at the recommended contour level is 2126 nm^3; this corresponds to an approximate mass of 1920 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.036 Å^{-1}

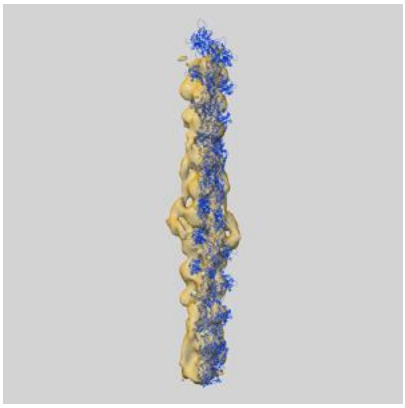
8 Fourier-Shell correlation

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

9 Map-model fit

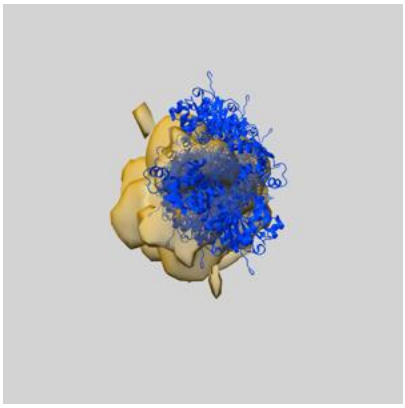
This section contains information regarding the fit between EMDB map EMD-3576 and PDB model 5MVA. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay



X

Y



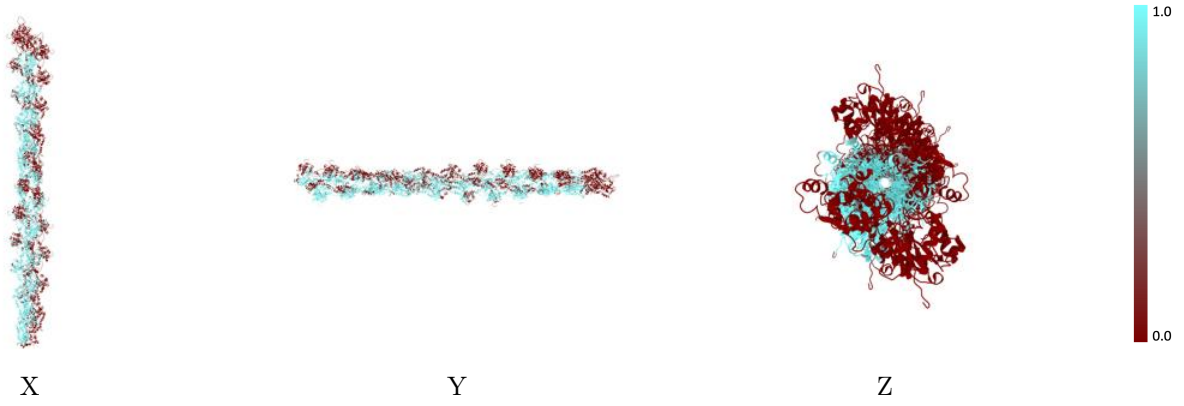
Z

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

9.2 Q-score mapped to coordinate model (i)

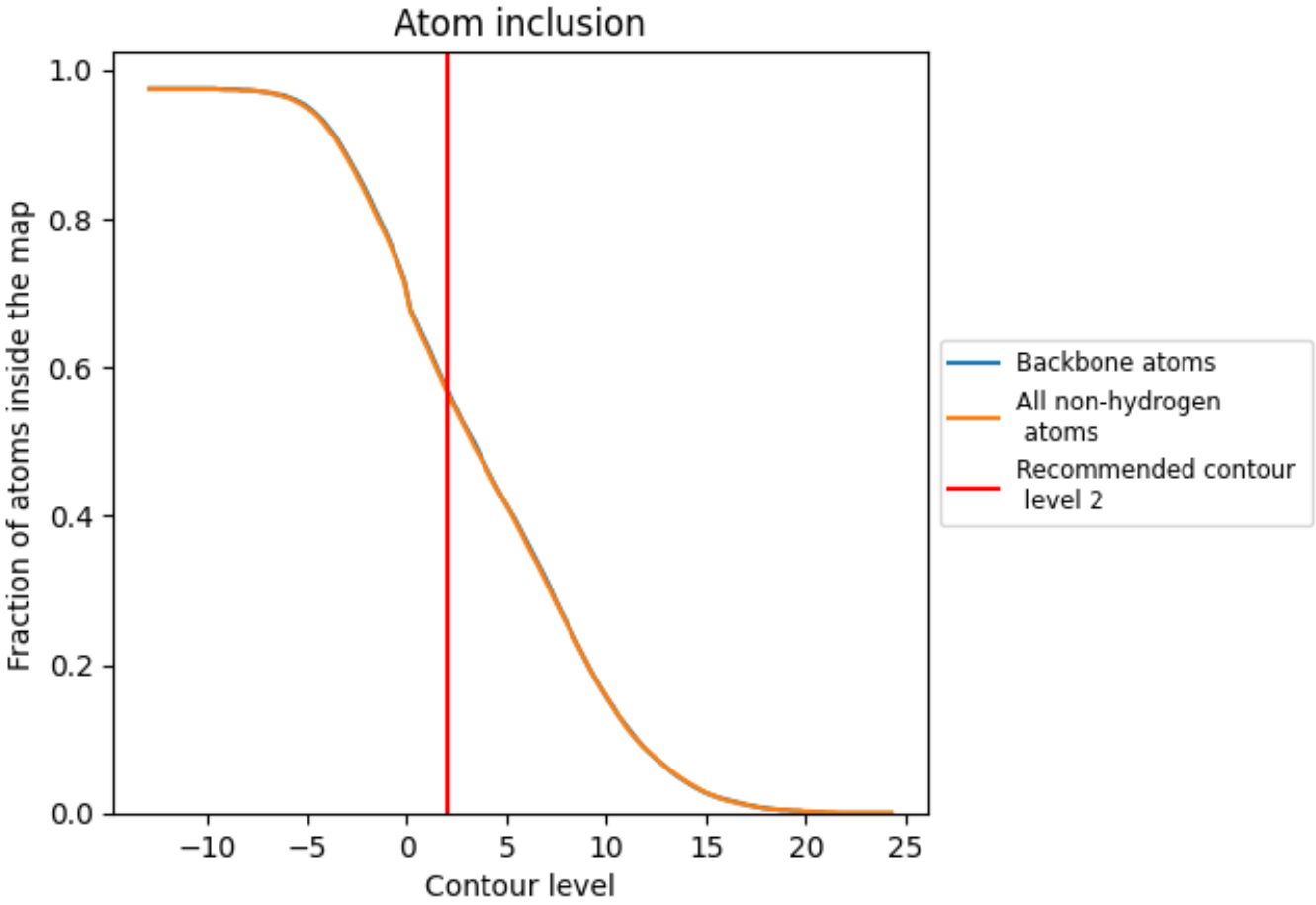
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model (i)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).

9.4 Atom inclusion (i)



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

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.5670	-0.0000
A	0.0320	0.0020
B	0.1480	-0.0120
C	0.7010	0.0080
D	0.3110	-0.0080
E	0.8870	0.0150
F	0.4380	-0.0160
G	0.8130	0.0080
H	0.5510	0.0170
I	0.6310	0.0010
J	0.6280	0.0150
K	0.5500	-0.0070
L	0.5750	-0.0170
M	0.5310	-0.0010
N	0.5790	-0.0220
O	0.5160	-0.0050
P	0.7480	-0.0160
Q	0.4100	-0.0110
R	0.9130	0.0110
S	0.4570	-0.0240
T	0.7890	0.0120
U	0.5490	0.0180
V	0.7130	0.0090
W	0.5790	0.0220