Full wwPDB EM Validation Report ⓘ

May 18, 2024 – 09:18 AM EDT

PDB ID	:	7KH1
EMDB ID	:	EMD-22873
Title	:	Baseplate Complex for Myoviridae Phage XM1
Authors	:	Wang, Z.; Klose, T.; Jiang, W.; Kuhn, R.J.
Deposited on	:	2020-10-19
Resolution	:	3.20 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:

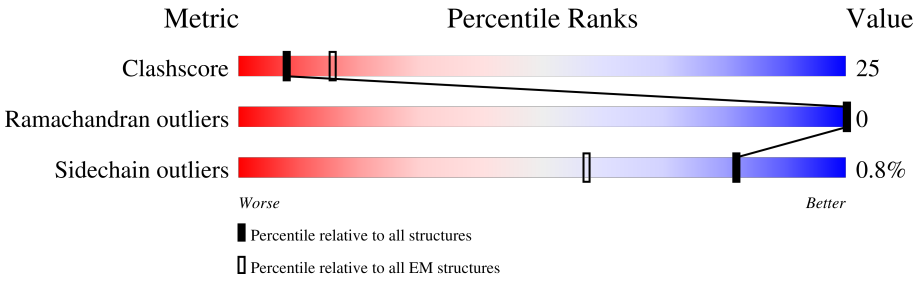
EMDB validation analysis	:	0.0.1.dev92
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36.2

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 3.20 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=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	A1	143	62% 37%
1	B1	143	59% 40%
1	C1	143	58% 41%
1	D1	143	59% 39%
1	E1	143	59% 39%
1	F1	143	58% 41%
2	A2	242	8% 39% 31% 29%
2	B2	242	9% 40% 30% 29%

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Mol	Chain	Length	Quality of chain
2	C2	242	9% 39% 31% 29%
2	D2	242	8% 36% 34% 29%
2	E2	242	10% 39% 31% 29%
2	F2	242	9% 39% 31% 29%
3	A3	250	57% 43%
3	B3	250	5% 60% 40%
3	C3	250	5% 57% 42%
3	D3	250	5% 59% 40%
3	E3	250	5% 56% 44%
3	F3	250	58% 41%
4	A4	118	52% 48%
4	B4	118	50% 50%
4	C4	118	51% 49%
4	D4	118	53% 47%
4	E4	118	51% 49%
4	F4	118	51% 49%
5	A5	404	9% 51% 48%
5	B5	404	13% 56% 44%
5	C5	404	8% 51% 48%
5	D5	404	12% 53% 46%
5	E5	404	8% 53% 46%
5	F5	404	12% 53% 46%
5	G5	404	9% 52% 47%
5	H5	404	13% 57% 42%
5	I5	404	8% 49% 50%

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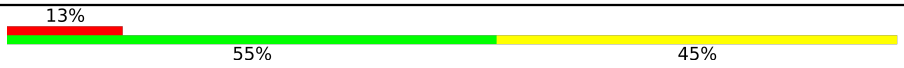
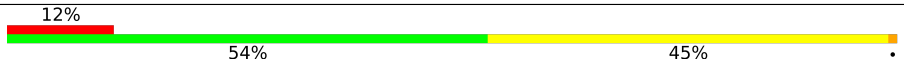
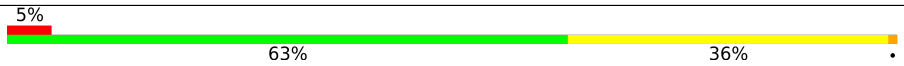
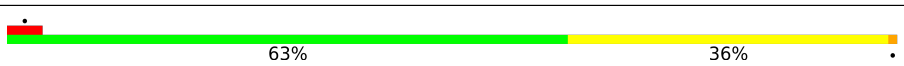
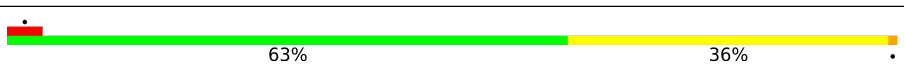
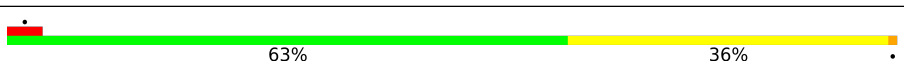
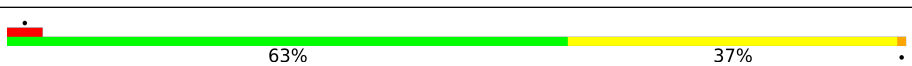
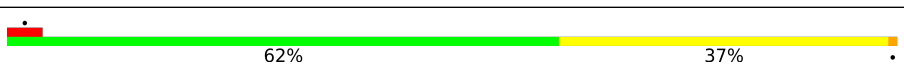
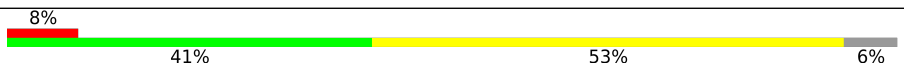
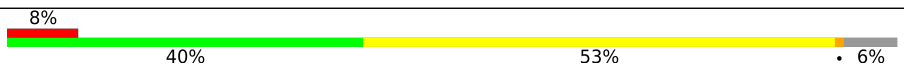
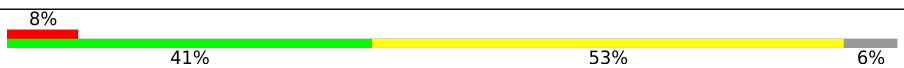
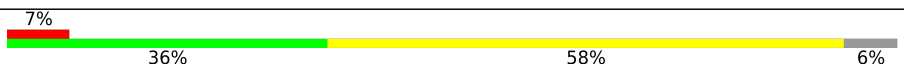
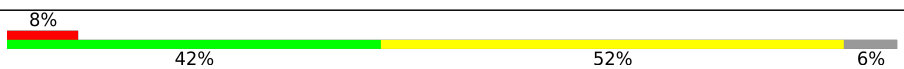
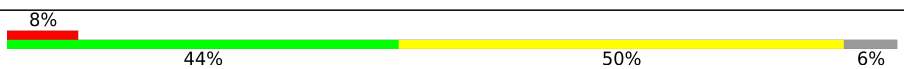
Mol	Chain	Length	Quality of chain
5	J5	404	
5	K5	404	
5	L5	404	
6	A6	497	
6	B6	497	
6	C6	497	
6	D6	497	
6	E6	497	
6	F6	497	
7	A7	117	
7	B7	117	
7	C7	117	
7	D7	117	
7	E7	117	
7	F7	117	

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 97344 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 tail tube protein, gp7.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A1	142	Total	C	N	O	S	0	0
			1091	673	192	224	2		
1	B1	142	Total	C	N	O	S	0	0
			1091	673	192	224	2		
1	C1	142	Total	C	N	O	S	0	0
			1091	673	192	224	2		
1	D1	142	Total	C	N	O	S	0	0
			1091	673	192	224	2		
1	E1	142	Total	C	N	O	S	0	0
			1091	673	192	224	2		
1	F1	142	Total	C	N	O	S	0	0
			1091	673	192	224	2		

- Molecule 2 is a protein called baseplate wedge protein, gp17.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	A2	173	Total	C	N	O	S	0	0
			1416	917	226	271	2		
2	B2	173	Total	C	N	O	S	0	0
			1416	917	226	271	2		
2	C2	173	Total	C	N	O	S	0	0
			1416	917	226	271	2		
2	D2	173	Total	C	N	O	S	0	0
			1416	917	226	271	2		
2	E2	173	Total	C	N	O	S	0	0
			1416	917	226	271	2		
2	F2	173	Total	C	N	O	S	0	0
			1416	917	226	271	2		

- Molecule 3 is a protein called baseplate organization protein, gp11.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	A3	250	Total	C	N	O	S	0	0
			1944	1204	337	399	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
3	B3	250	Total	C	N	O	S	0	0
			1944	1204	337	399	4		
3	C3	250	Total	C	N	O	S	0	0
			1944	1204	337	399	4		
3	D3	250	Total	C	N	O	S	0	0
			1944	1204	337	399	4		
3	E3	250	Total	C	N	O	S	0	0
			1944	1204	337	399	4		
3	F3	250	Total	C	N	O	S	0	0
			1944	1204	337	399	4		

- Molecule 4 is a protein called baseplate stabilizing protein, gp12.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	A4	118	Total	C	N	O	S	0	0
			965	616	160	183	6		
4	B4	118	Total	C	N	O	S	0	0
			965	616	160	183	6		
4	C4	118	Total	C	N	O	S	0	0
			965	616	160	183	6		
4	D4	118	Total	C	N	O	S	0	0
			965	616	160	183	6		
4	E4	118	Total	C	N	O	S	0	0
			965	616	160	183	6		
4	F4	118	Total	C	N	O	S	0	0
			965	616	160	183	6		

- Molecule 5 is a protein called baseplate wedge protein, gp16.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	A5	404	Total	C	N	O	S	0	0
			3101	1929	518	650	4		
5	B5	404	Total	C	N	O	S	0	0
			3103	1931	518	650	4		
5	C5	404	Total	C	N	O	S	0	0
			3101	1929	518	650	4		
5	D5	404	Total	C	N	O	S	0	0
			3103	1931	518	650	4		
5	E5	404	Total	C	N	O	S	0	0
			3101	1929	518	650	4		
5	F5	404	Total	C	N	O	S	0	0
			3103	1931	518	650	4		

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Mol	Chain	Residues	Atoms					AltConf	Trace
5	G5	404	Total	C	N	O	S	0	0
			3101	1929	518	650	4		
5	H5	404	Total	C	N	O	S	0	0
			3103	1931	518	650	4		
5	I5	404	Total	C	N	O	S	0	0
			3101	1929	518	650	4		
5	J5	404	Total	C	N	O	S	0	0
			3103	1931	518	650	4		
5	K5	404	Total	C	N	O	S	0	0
			3101	1929	518	650	4		
5	L5	404	Total	C	N	O	S	0	0
			3103	1931	518	650	4		

- Molecule 6 is a protein called tail sheath protein, gp6.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	A6	497	Total	C	N	O	S	0	0
			3721	2321	616	772	12		
6	B6	497	Total	C	N	O	S	0	0
			3721	2321	616	772	12		
6	C6	497	Total	C	N	O	S	0	0
			3721	2321	616	772	12		
6	D6	497	Total	C	N	O	S	0	0
			3721	2321	616	772	12		
6	E6	497	Total	C	N	O	S	0	0
			3721	2321	616	772	12		
6	F6	497	Total	C	N	O	S	0	0
			3721	2321	616	772	12		

- Molecule 7 is a protein called tail sheath initiator protein, gp15.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	A7	110	Total	C	N	O	S	0	0
			883	549	156	176	2		
7	B7	110	Total	C	N	O	S	0	0
			883	549	156	176	2		
7	C7	110	Total	C	N	O	S	0	0
			883	549	156	176	2		
7	D7	110	Total	C	N	O	S	0	0
			883	549	156	176	2		
7	E7	110	Total	C	N	O	S	0	0
			883	549	156	176	2		

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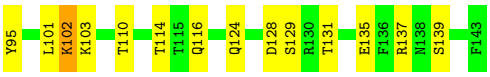
Mol	Chain	Residues	Atoms					AltConf	Trace
7	F7	110	Total	C	N	O	S	0	0
			883	549	156	176	2		

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: tail tube protein, gp7

Chain A1:

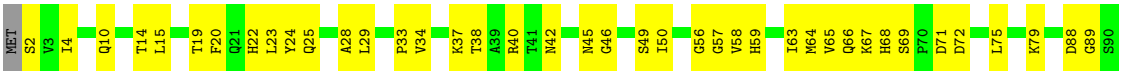


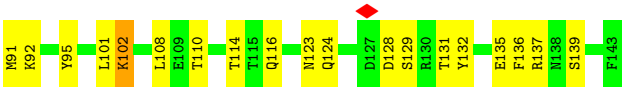
• Molecule 1: tail tube protein, gp7

Chain B1:

• Molecule 1: tail tube protein, gp7

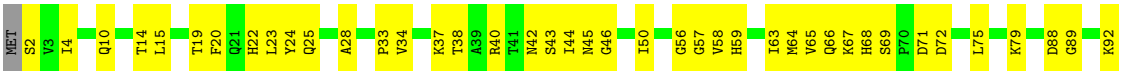
Chain C1:

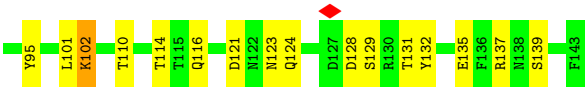




• Molecule 1: tail tube protein, gp7

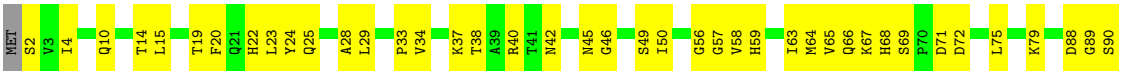
Chain D1:





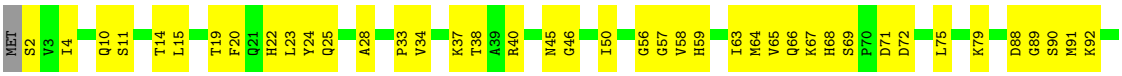
• Molecule 1: tail tube protein, gp7

Chain E1:



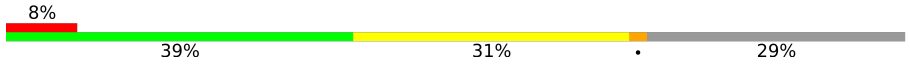
• Molecule 1: tail tube protein, gp7

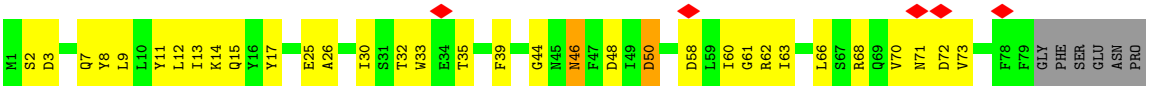
Chain F1:

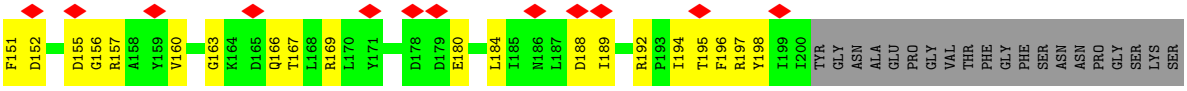


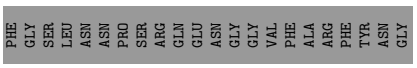
• Molecule 2: baseplate wedge protein, gp17

Chain A2:



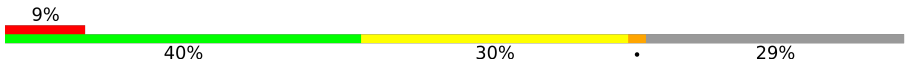


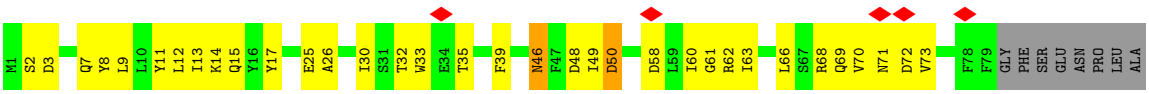


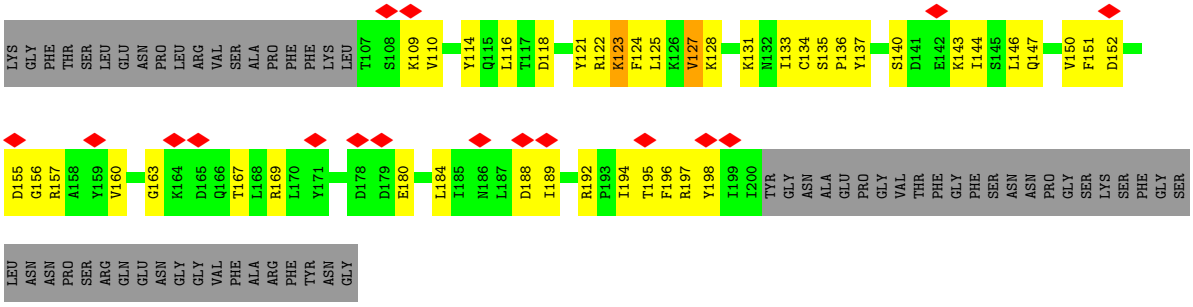


• Molecule 2: baseplate wedge protein, gp17

Chain B2:

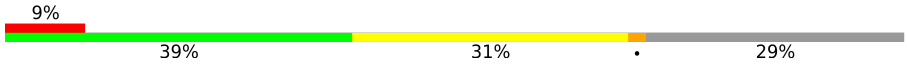


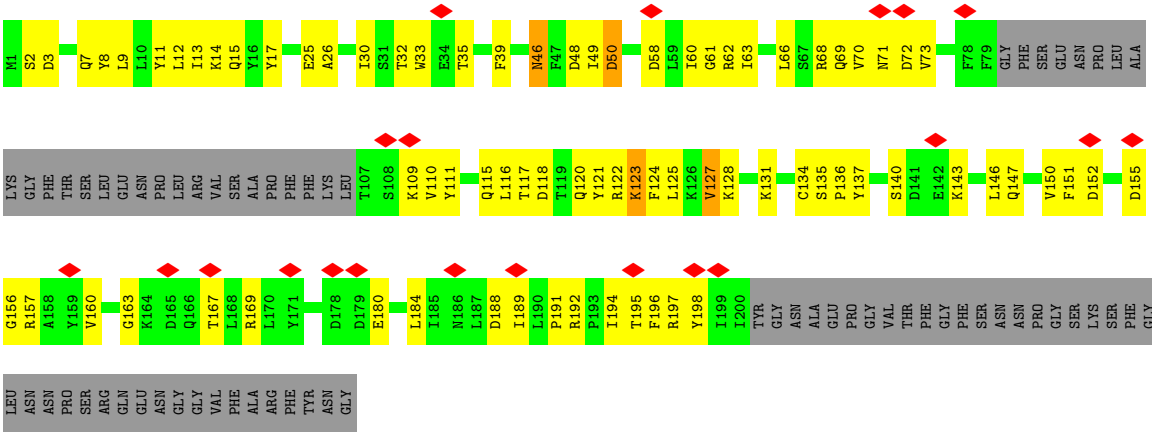




• Molecule 2: baseplate wedge protein, gp17

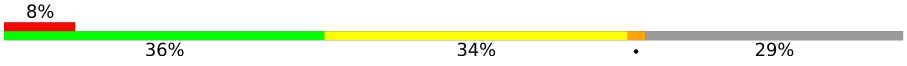
Chain C2:

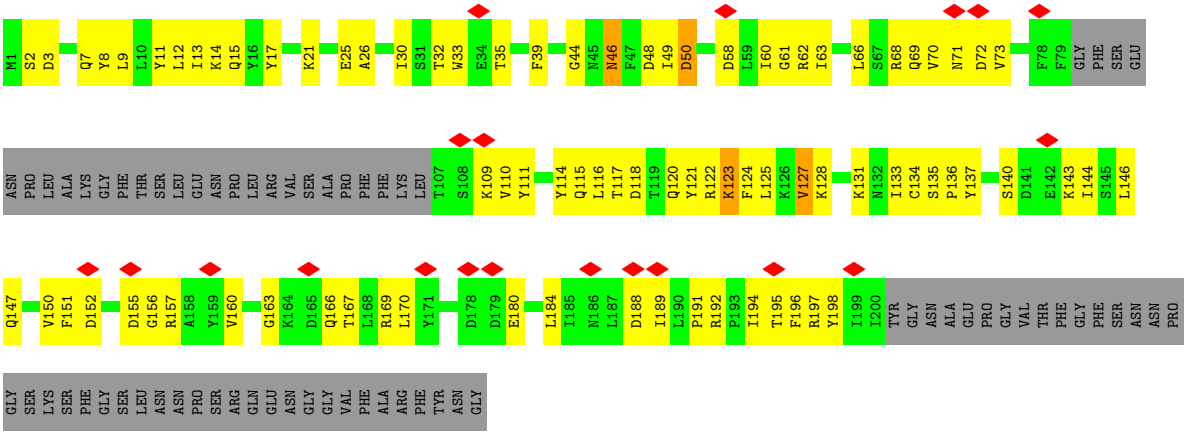




• Molecule 2: baseplate wedge protein, gp17

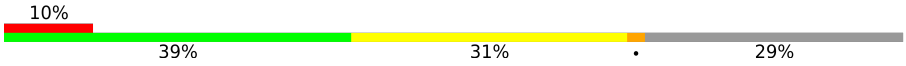
Chain D2:

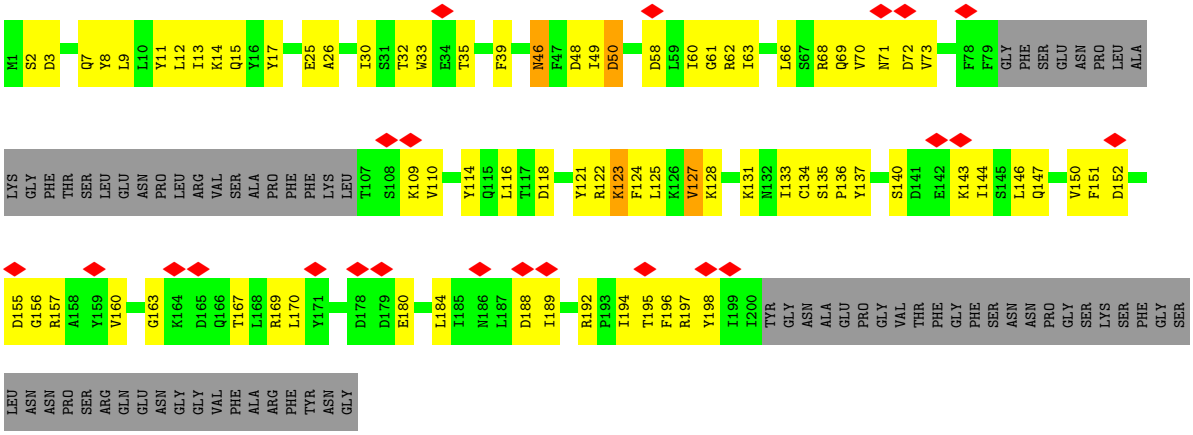




• Molecule 2: baseplate wedge protein, gp17

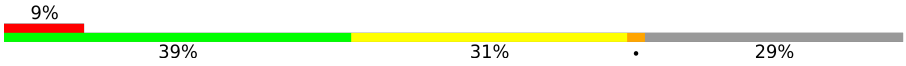
Chain E2:

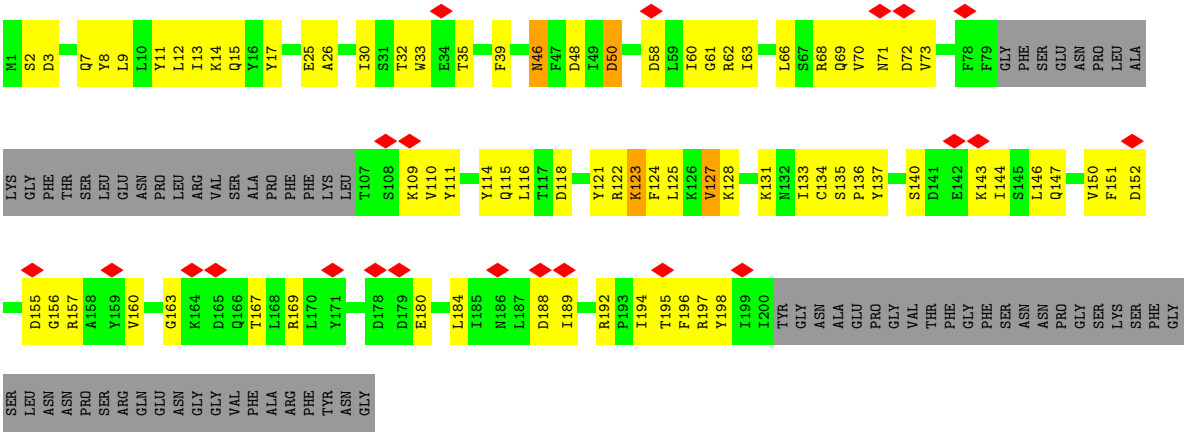




• Molecule 2: baseplate wedge protein, gp17

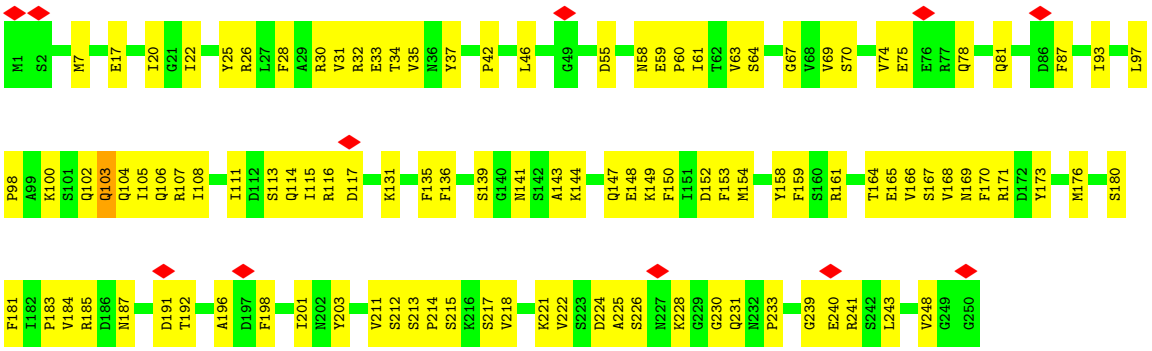
Chain F2:





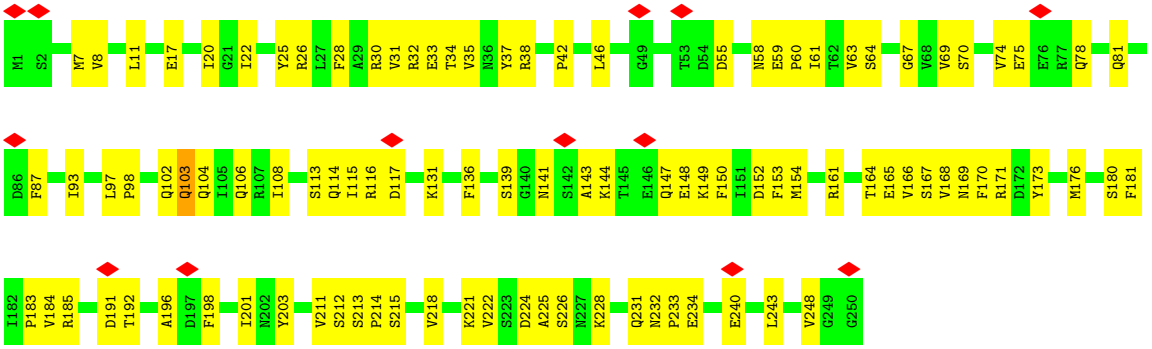
• Molecule 3: baseplate organization protein, gp11

Chain A3:

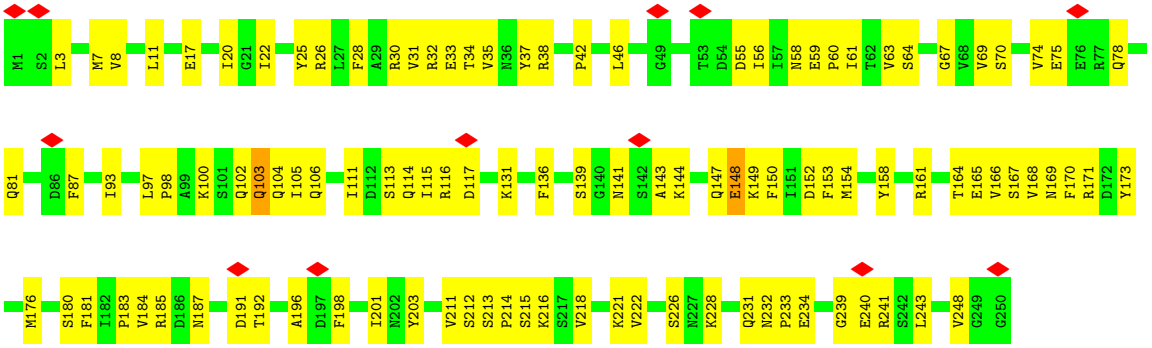


• Molecule 3: baseplate organization protein, gp11

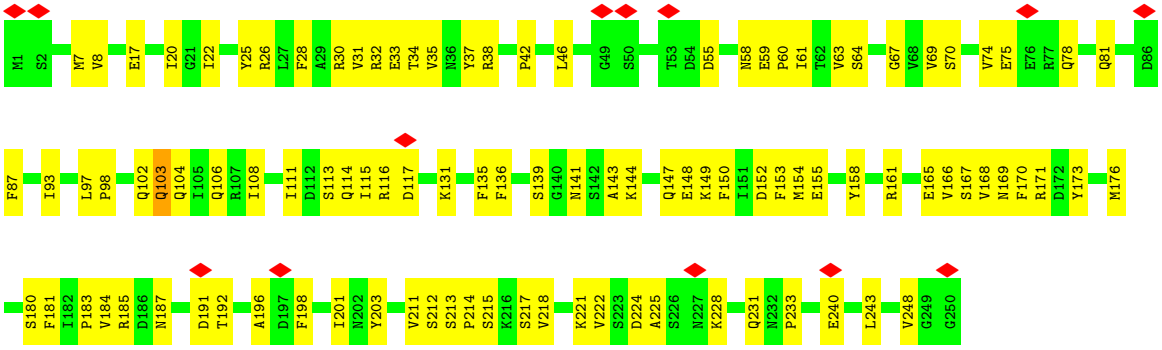
Chain B3:



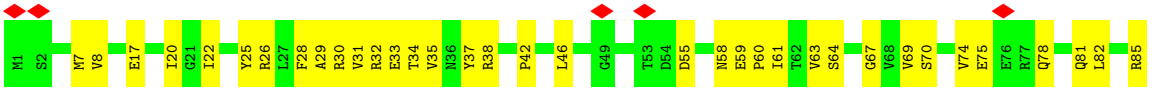
• Molecule 3: baseplate organization protein, gp11

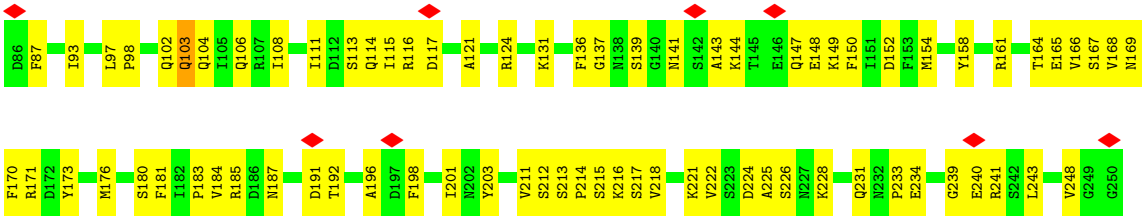


• Molecule 3: baseplate organization protein, gp11



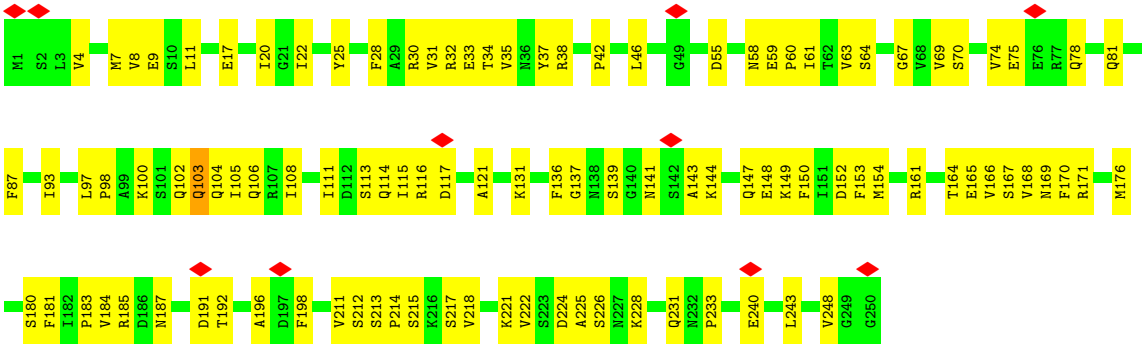
• Molecule 3: baseplate organization protein, gp11





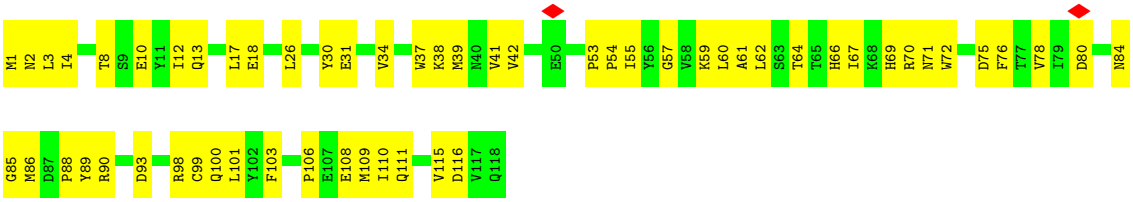
• Molecule 3: baseplate organization protein, gp11

Chain F3:



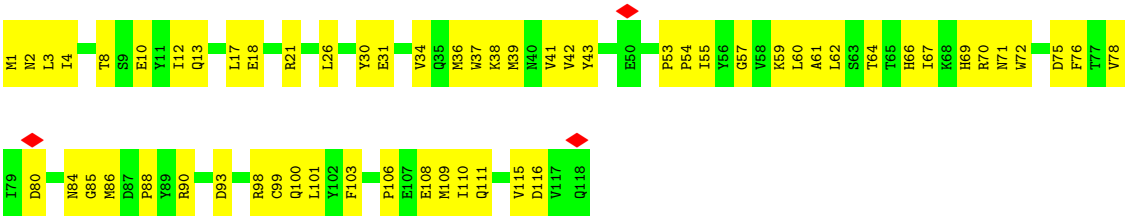
• Molecule 4: baseplate stabilizing protein, gp12

Chain A4:



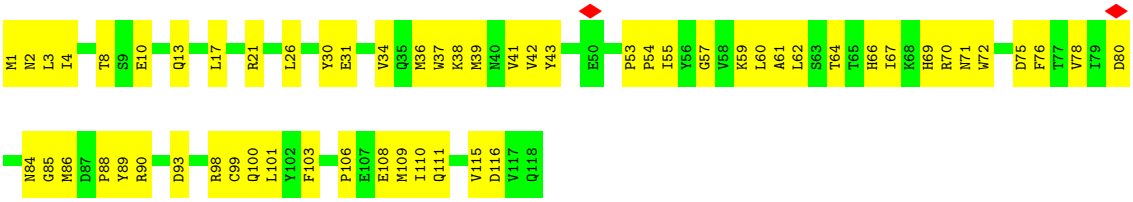
• Molecule 4: baseplate stabilizing protein, gp12

Chain B4:



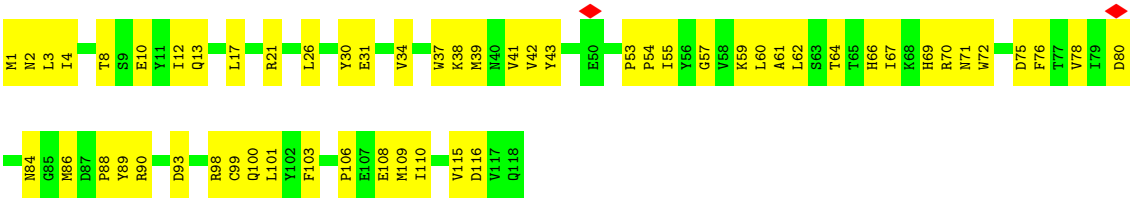
• Molecule 4: baseplate stabilizing protein, gp12

Chain C4:



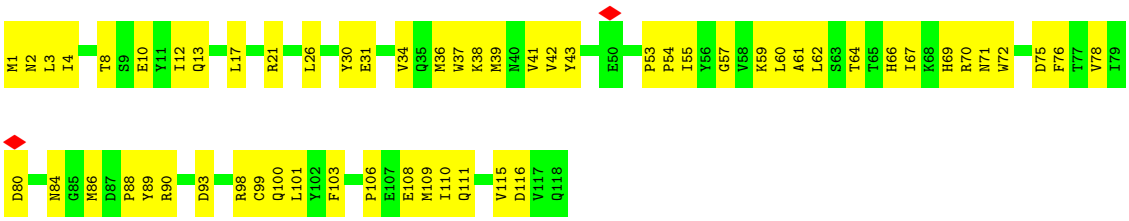
• Molecule 4: baseplate stabilizing protein, gp12

Chain D4:



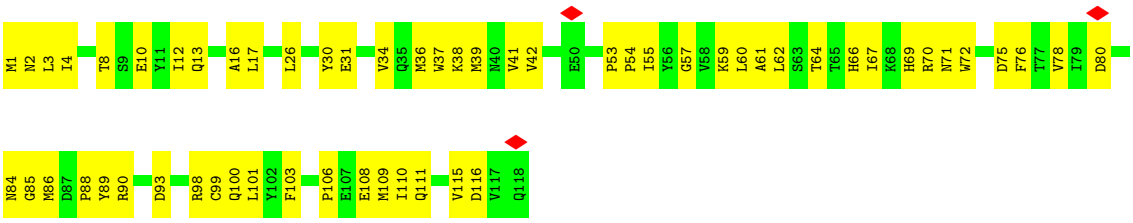
• Molecule 4: baseplate stabilizing protein, gp12

Chain E4:



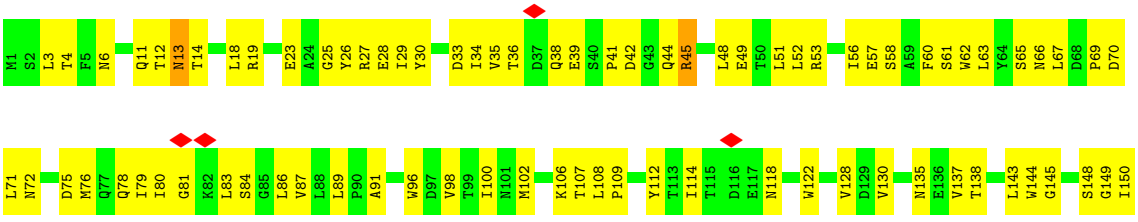
• Molecule 4: baseplate stabilizing protein, gp12

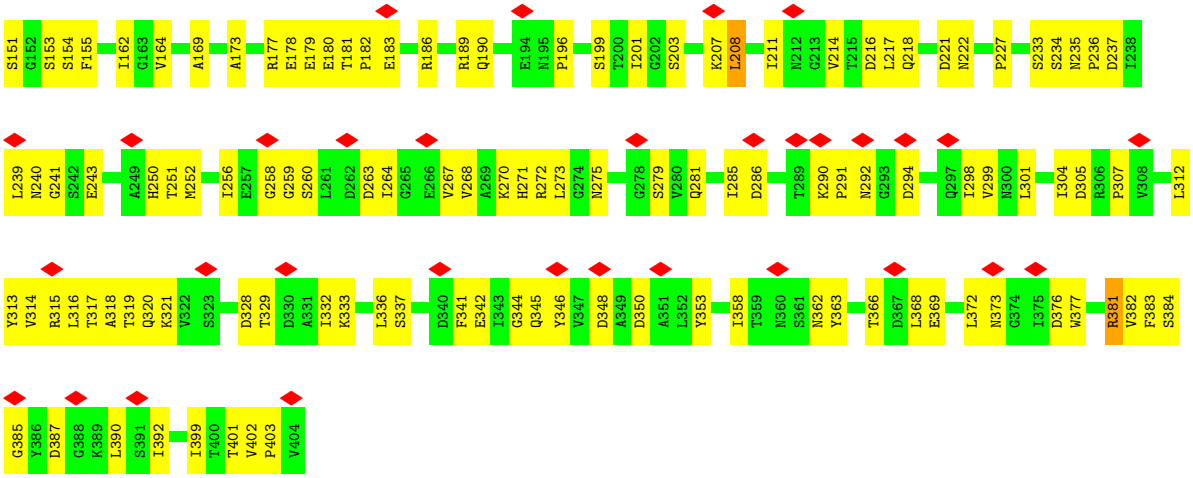
Chain F4:



• Molecule 5: baseplate wedge protein, gp16

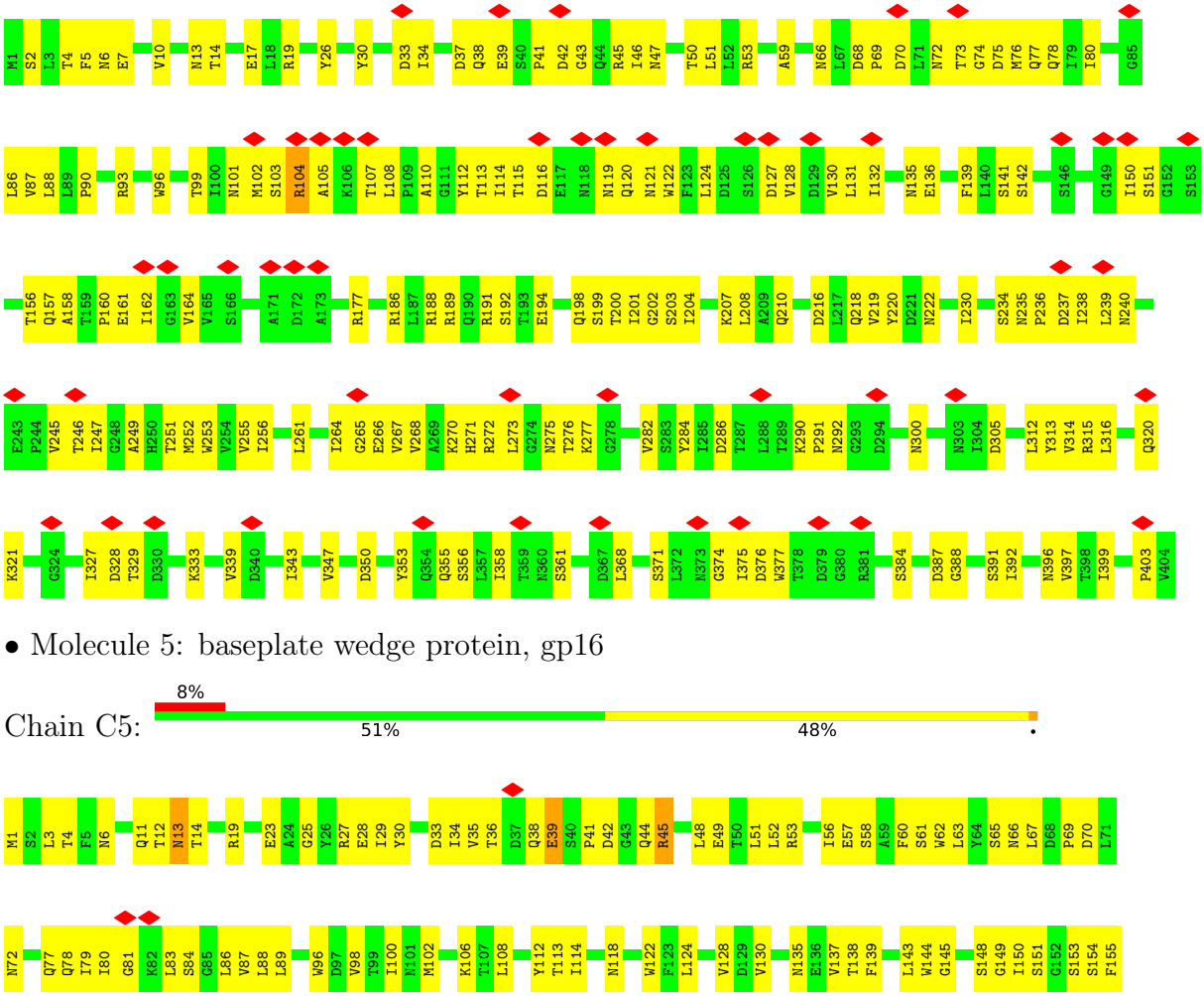
Chain A5:





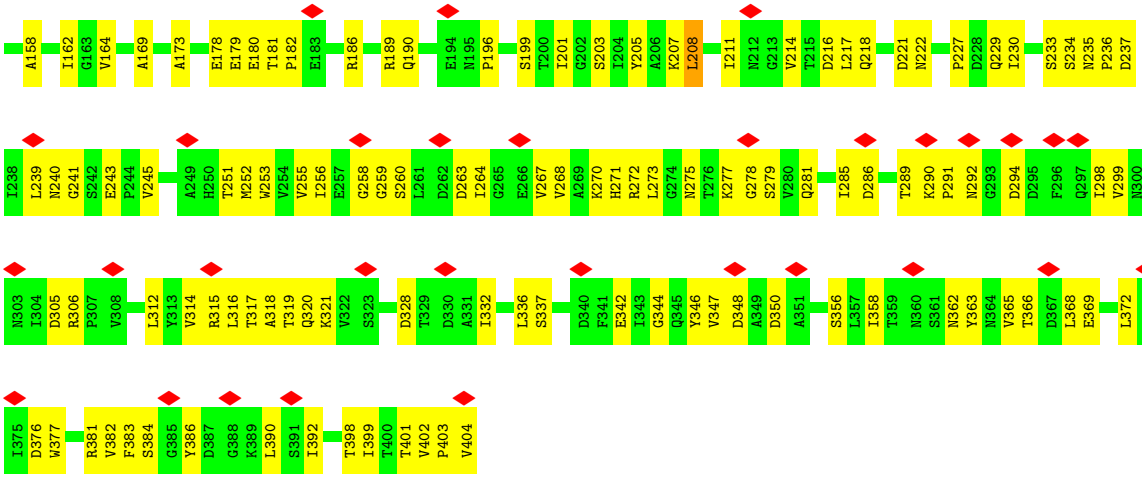
• Molecule 5: baseplate wedge protein, gp16

Chain B5:



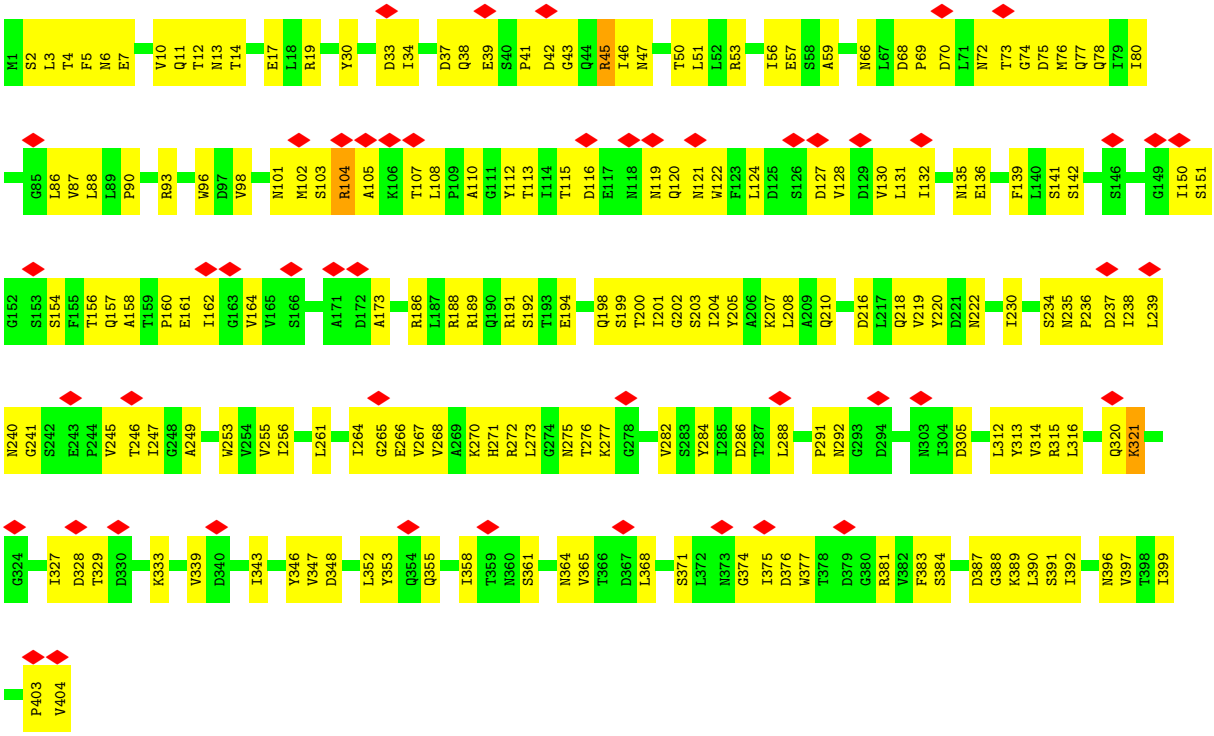
• Molecule 5: baseplate wedge protein, gp16

Chain C5:



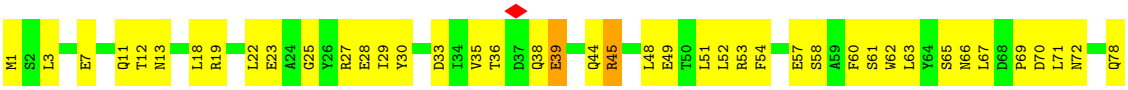
• Molecule 5: baseplate wedge protein, gp16

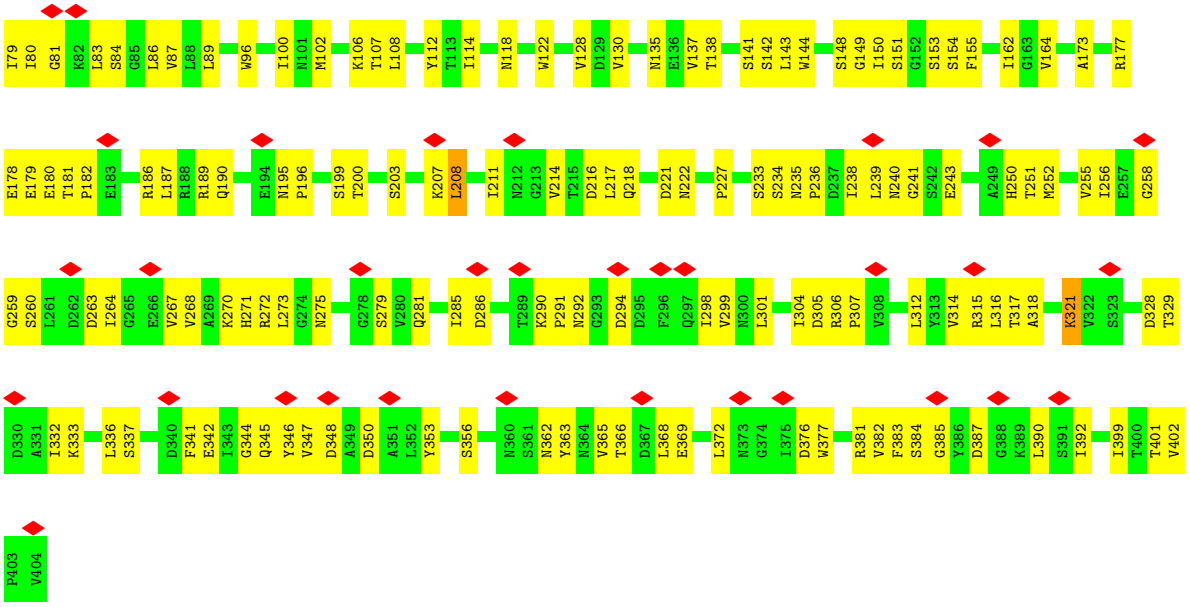
Chain D5:



• Molecule 5: baseplate wedge protein, gp16

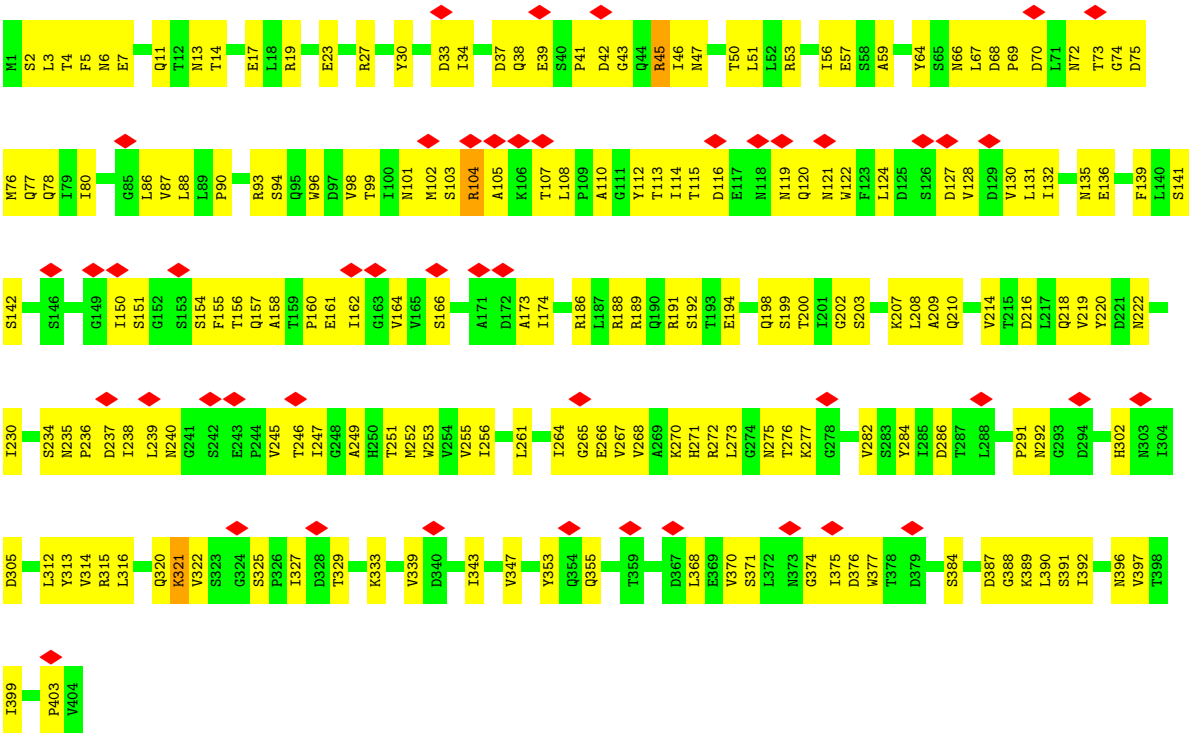
Chain E5:





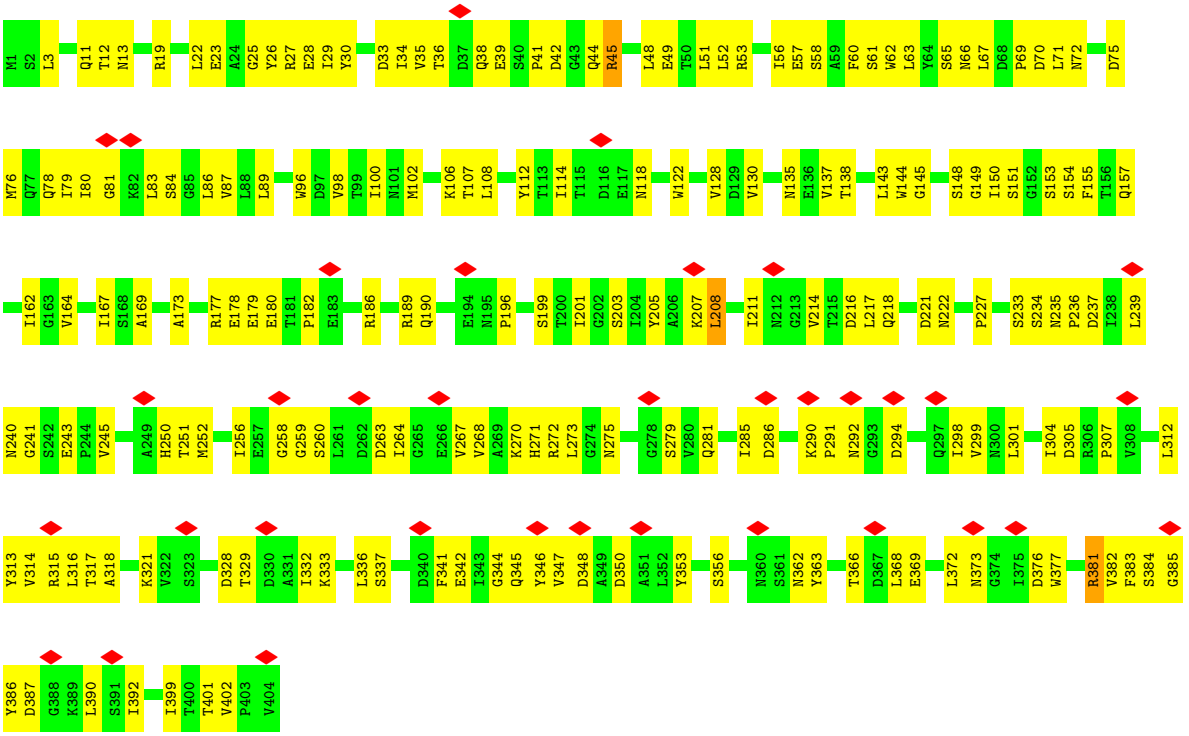
• Molecule 5: baseplate wedge protein, gp16

Chain F5:



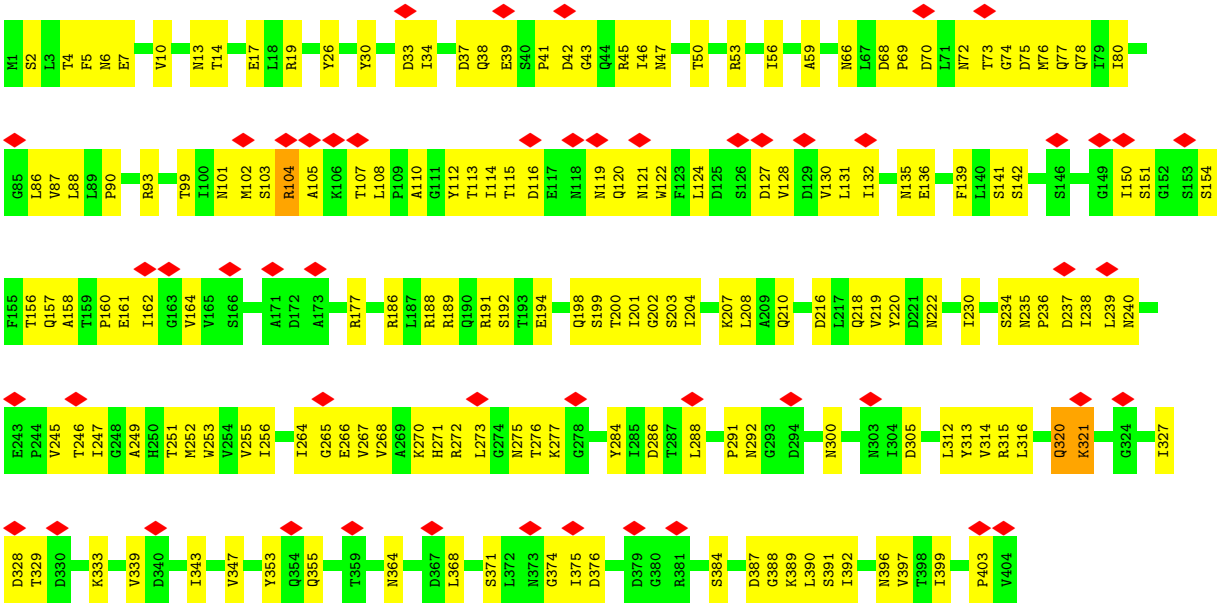
• Molecule 5: baseplate wedge protein, gp16

Chain G5:



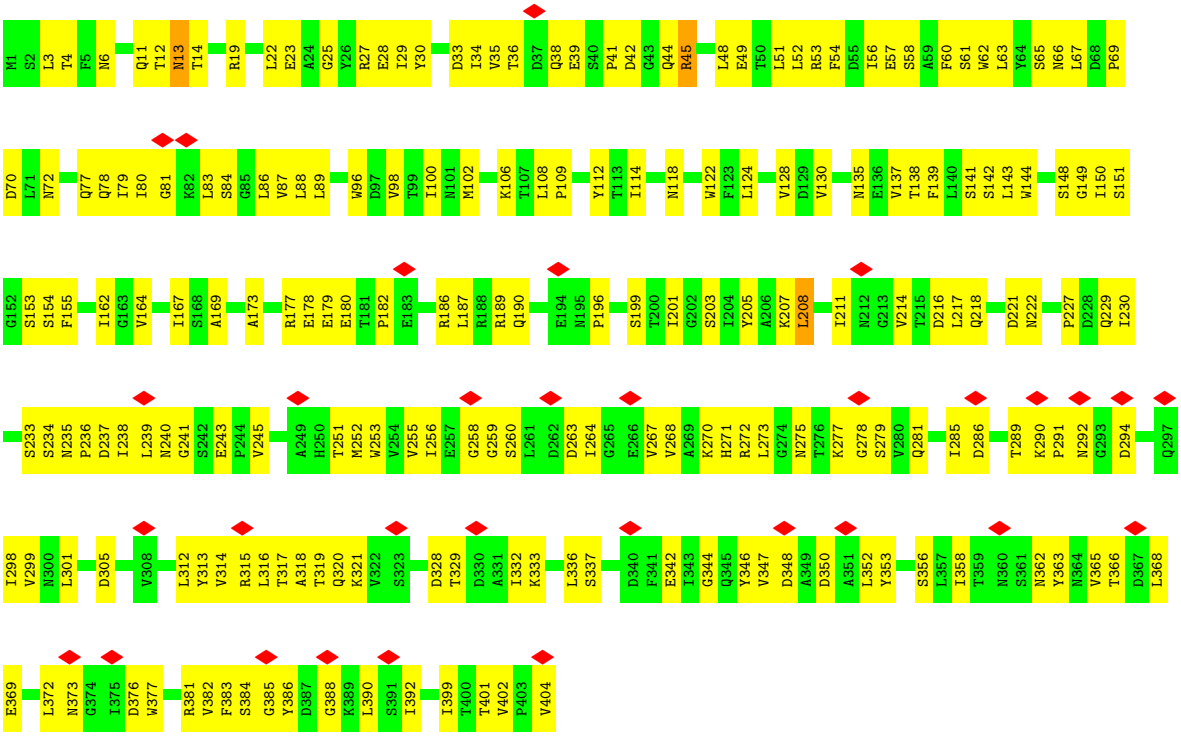
• Molecule 5: baseplate wedge protein, gp16

Chain H5:



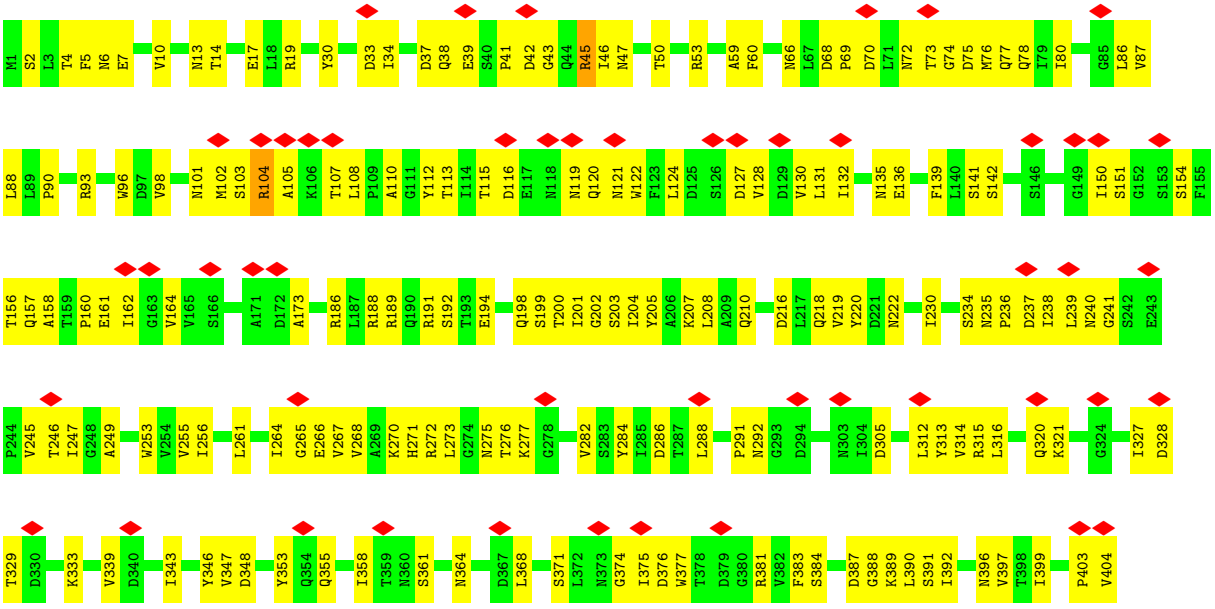
• Molecule 5: baseplate wedge protein, gp16

Chain I5:



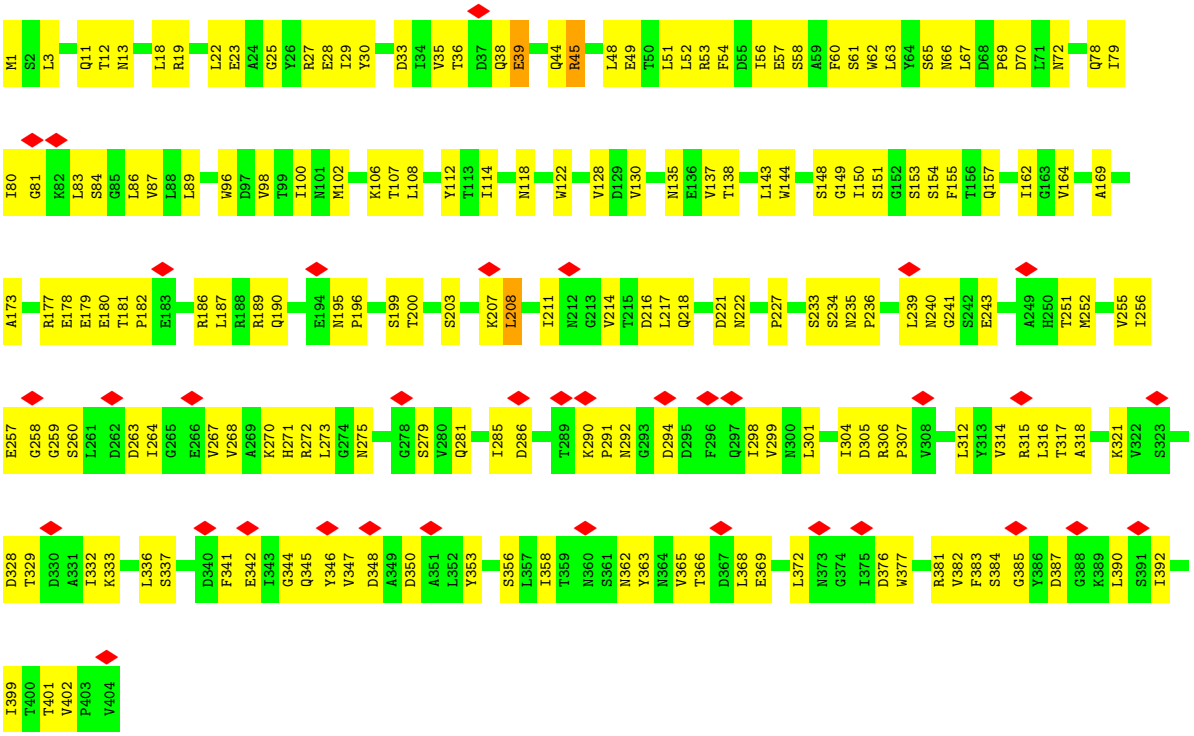
• Molecule 5: baseplate wedge protein, gp16

Chain J5:



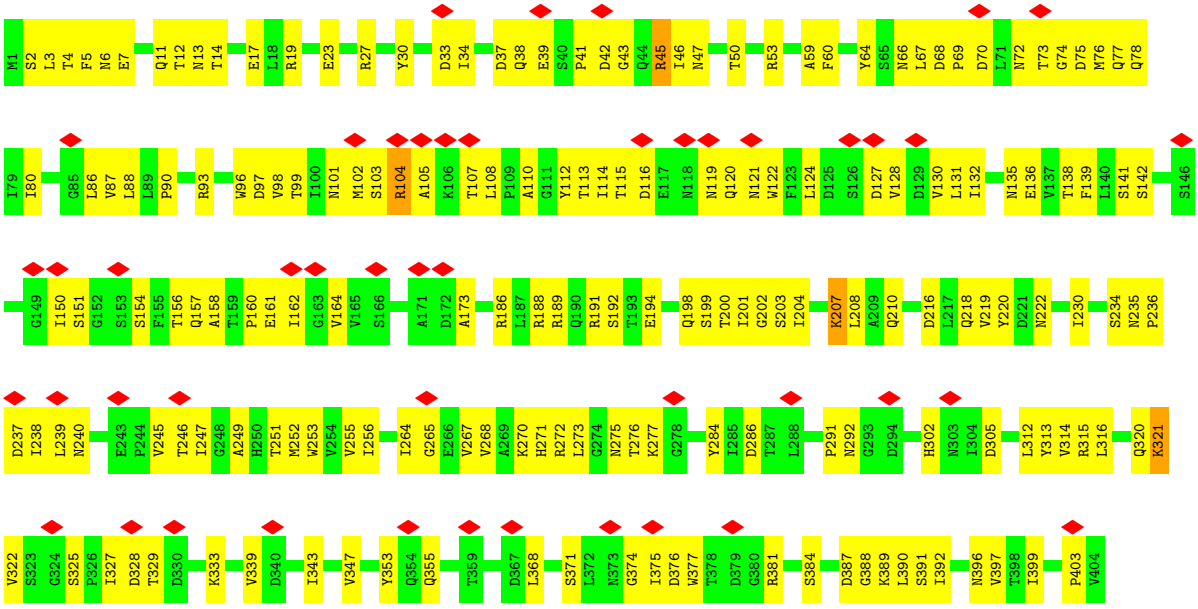
• Molecule 5: baseplate wedge protein, gp16

Chain K5:



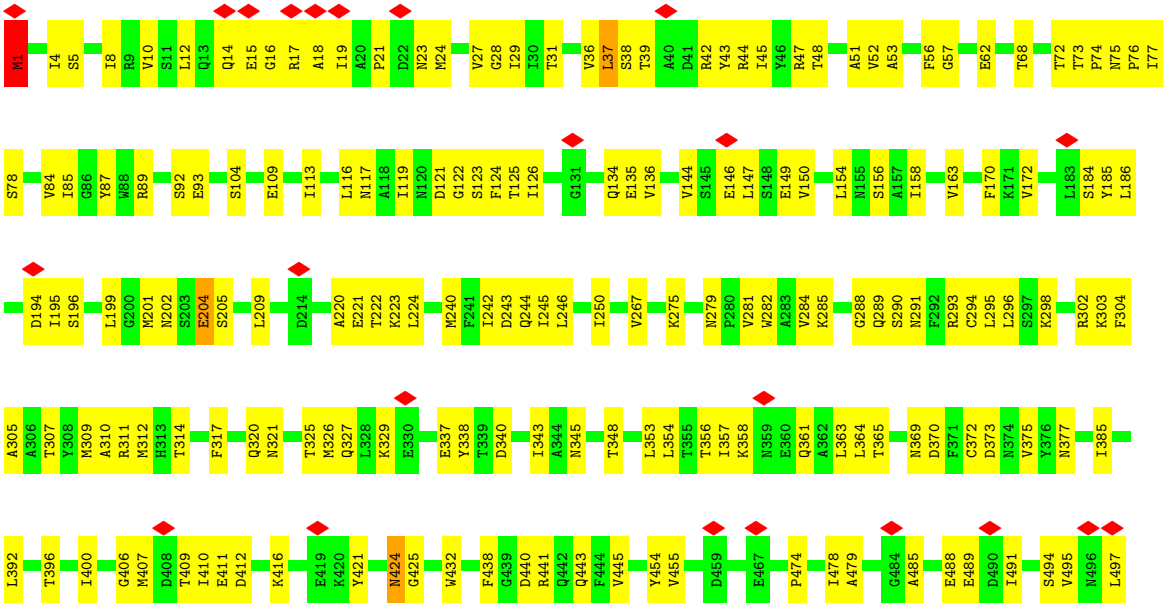
• Molecule 5: baseplate wedge protein, gp16

Chain L5:



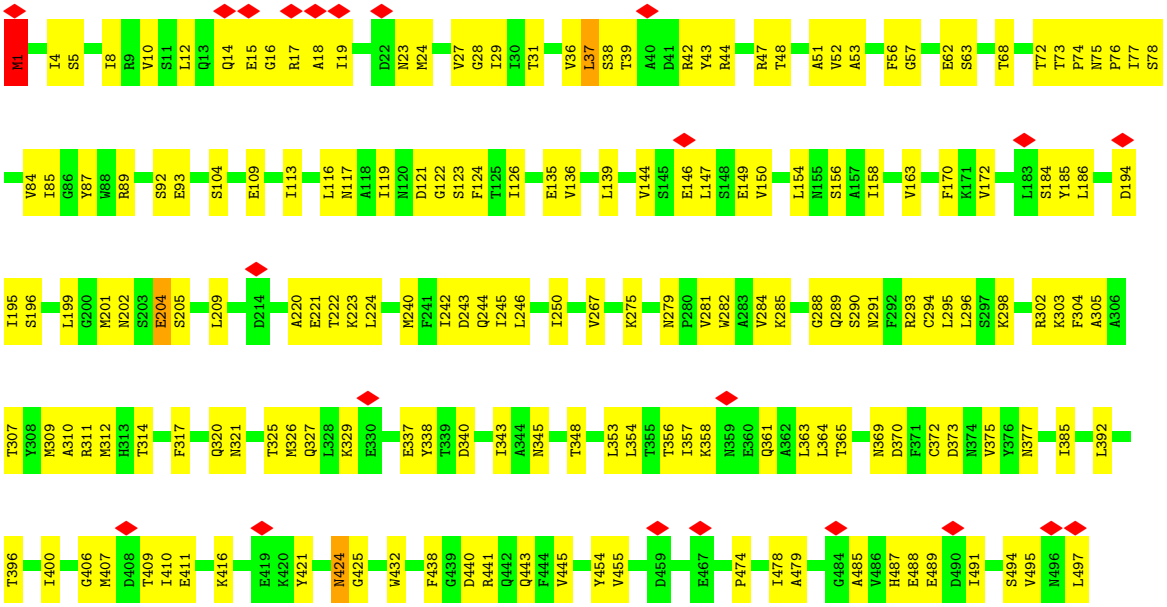
• Molecule 6: tail sheath protein, gp6

Chain A6:



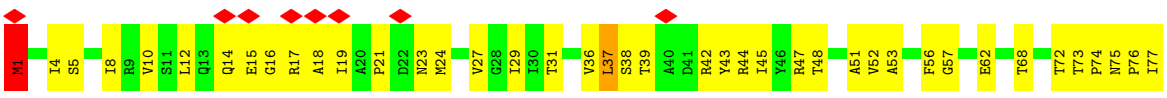
• Molecule 6: tail sheath protein, gp6

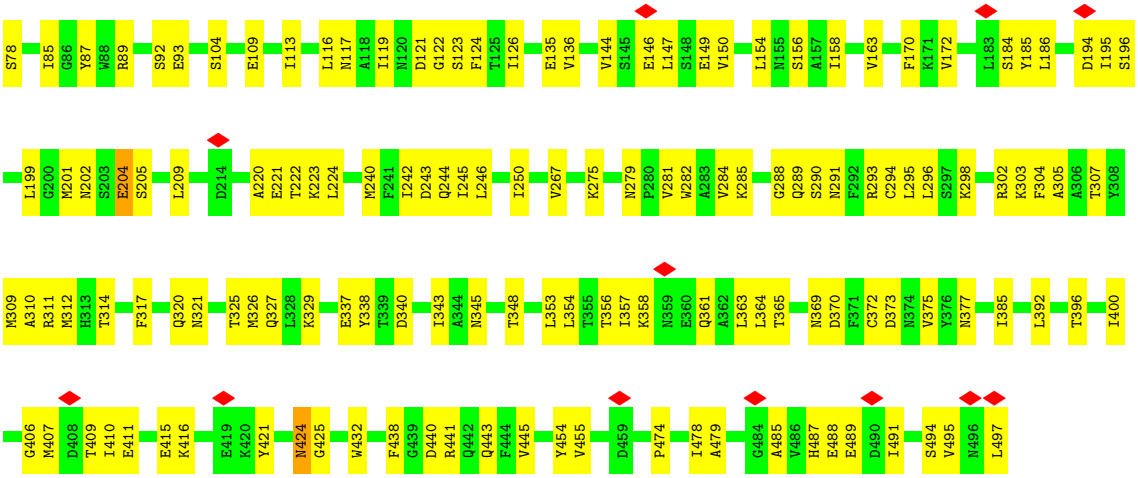
Chain B6:



• Molecule 6: tail sheath protein, gp6

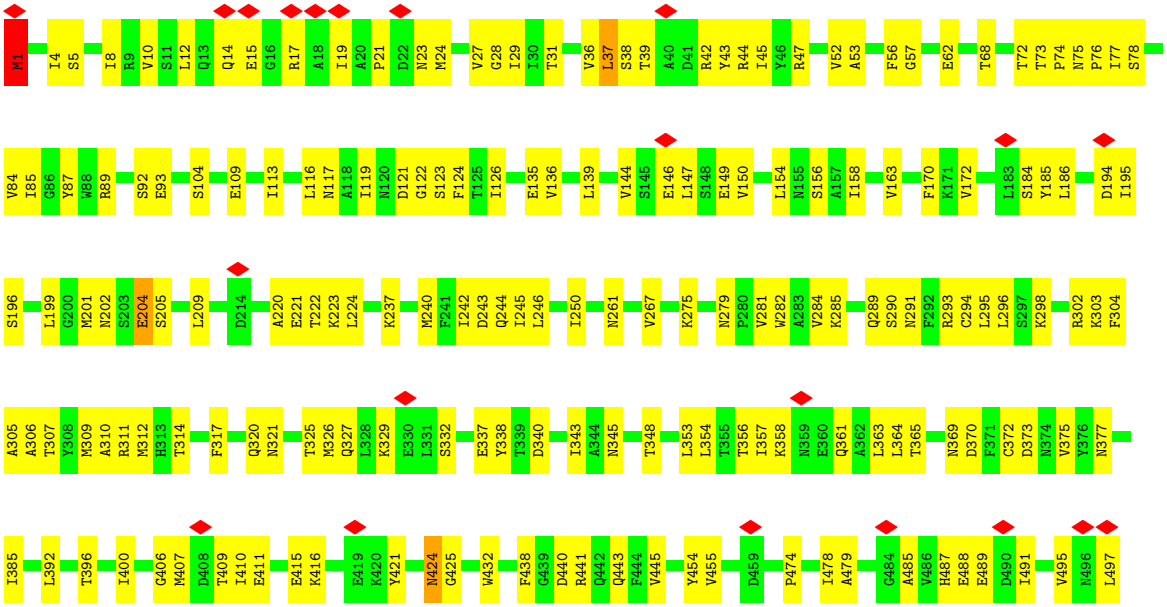
Chain C6:





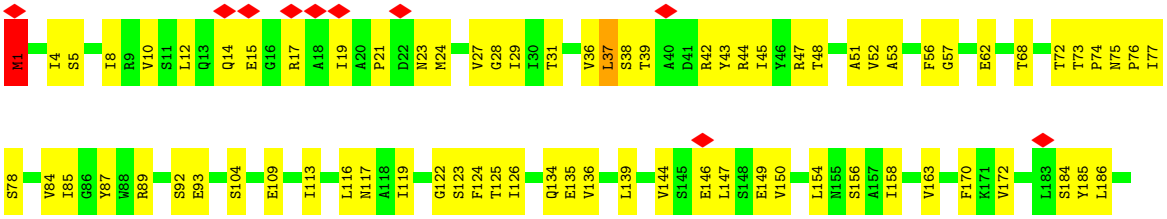
• Molecule 6: tail sheath protein, gp6

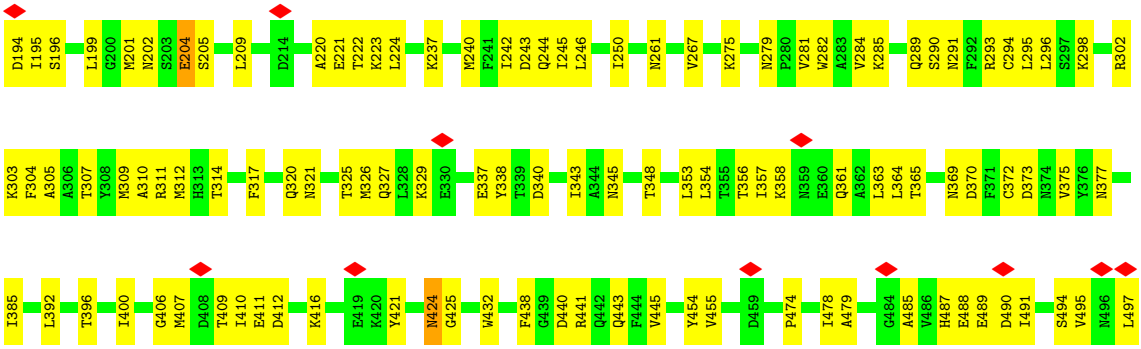
Chain D6:



• Molecule 6: tail sheath protein, gp6

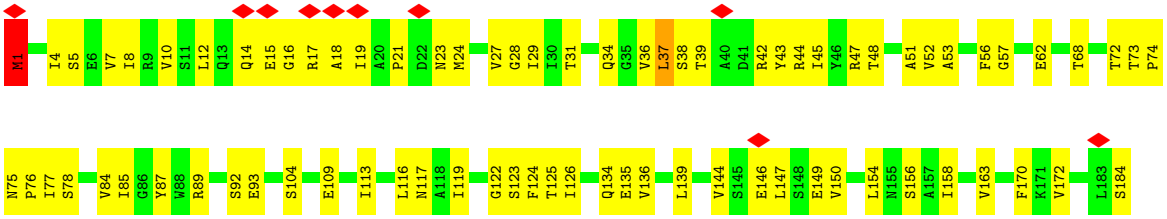
Chain E6:





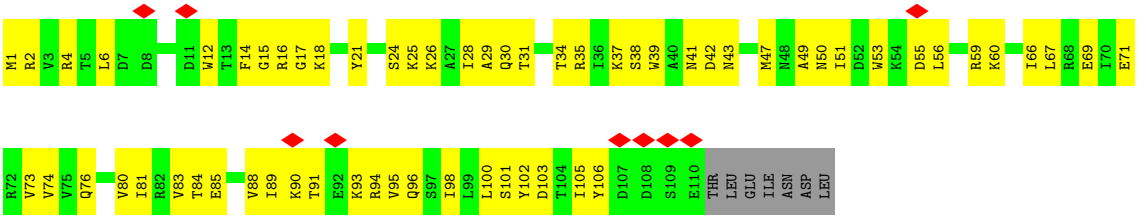
• Molecule 6: tail sheath protein, gp6

Chain F6:



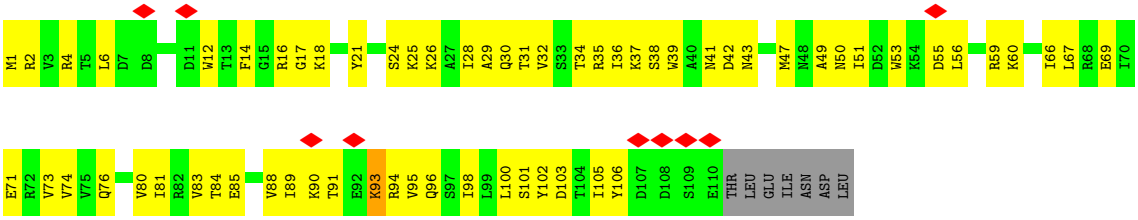
• Molecule 7: tail sheath initiator protein, gp15

Chain A7:



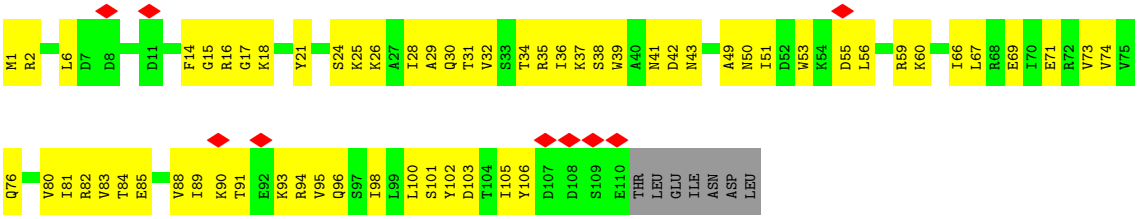
• Molecule 7: tail sheath initiator protein, gp15

Chain B7:



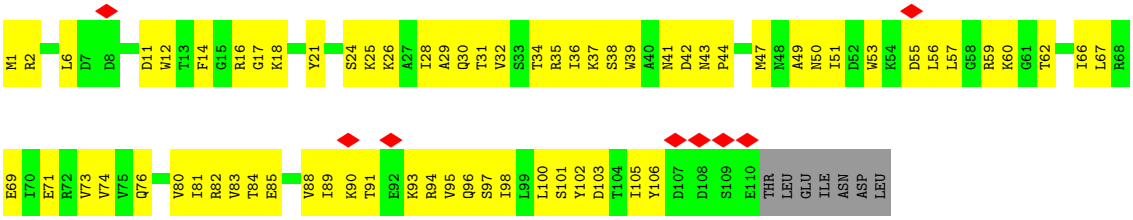
• Molecule 7: tail sheath initiator protein, gp15

Chain C7:



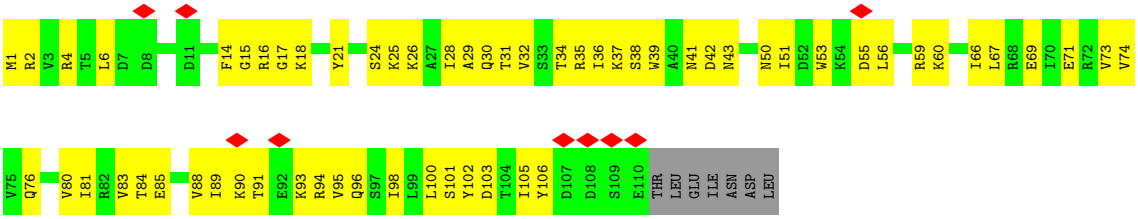
• Molecule 7: tail sheath initiator protein, gp15

Chain D7:



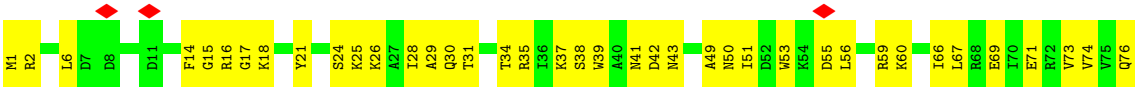
• Molecule 7: tail sheath initiator protein, gp15

Chain E7:



• Molecule 7: tail sheath initiator protein, gp15

Chain F7:




V80
I81
R82
V83
T84
E85
V88
I89
K90
T91
E92
K93
R94
V95
Q96
S97
I98
L99
L100
S101
Y102
D103
T104
I105
Y106
D107
D108
S109
E110
THR
LEU
GLU
ILE
ASN
ASP
LEU

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	16068	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	25	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-16 (4k x 4k)	Depositor
Maximum map value	13.778	Depositor
Minimum map value	-10.260	Depositor
Average map value	0.019	Depositor
Map value standard deviation	0.584	Depositor
Recommended contour level	2.4	Depositor
Map size (Å)	414.72, 414.72, 414.72	wwPDB
Map dimensions	512, 512, 512	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.81, 0.81, 0.81	Depositor

5 Model quality

5.1 Standard geometry

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	A1	0.52	0/1108	0.54	0/1505
1	B1	0.52	0/1108	0.54	0/1505
1	C1	0.52	0/1108	0.54	0/1505
1	D1	0.52	0/1108	0.54	0/1505
1	E1	0.52	0/1108	0.54	0/1505
1	F1	0.52	0/1108	0.54	0/1505
2	A2	0.49	0/1444	0.58	0/1959
2	B2	0.48	0/1444	0.58	0/1959
2	C2	0.49	0/1444	0.58	0/1959
2	D2	0.49	0/1444	0.58	0/1959
2	E2	0.49	0/1444	0.58	0/1959
2	F2	0.49	0/1444	0.58	0/1959
3	A3	0.53	0/1973	0.55	0/2668
3	B3	0.53	0/1973	0.55	0/2668
3	C3	0.53	0/1973	0.55	0/2668
3	D3	0.53	0/1973	0.55	0/2668
3	E3	0.53	0/1973	0.55	0/2668
3	F3	0.53	0/1973	0.55	0/2668
4	A4	0.56	0/989	0.63	0/1346
4	B4	0.56	0/989	0.62	0/1346
4	C4	0.55	0/989	0.62	0/1346
4	D4	0.56	0/989	0.62	0/1346
4	E4	0.56	0/989	0.62	0/1346
4	F4	0.55	0/989	0.62	0/1346
5	A5	0.47	1/3152 (0.0%)	0.64	4/4298 (0.1%)
5	B5	0.41	0/3154	0.59	1/4301 (0.0%)
5	C5	0.48	2/3152 (0.1%)	0.59	2/4298 (0.0%)
5	D5	0.41	0/3154	0.61	4/4301 (0.1%)
5	E5	0.48	1/3152 (0.0%)	0.63	4/4298 (0.1%)
5	F5	0.42	0/3154	0.60	4/4301 (0.1%)
5	G5	0.46	1/3152 (0.0%)	0.62	3/4298 (0.1%)
5	H5	0.43	2/3154 (0.1%)	0.61	3/4301 (0.1%)
5	I5	0.46	0/3152	0.59	2/4298 (0.0%)
5	J5	0.41	0/3154	0.60	3/4301 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
5	K5	0.47	1/3152 (0.0%)	0.62	4/4298 (0.1%)
5	L5	0.42	0/3154	0.62	6/4301 (0.1%)
6	A6	0.48	0/3772	0.56	2/5134 (0.0%)
6	B6	0.47	0/3772	0.56	2/5134 (0.0%)
6	C6	0.47	0/3772	0.56	2/5134 (0.0%)
6	D6	0.48	0/3772	0.56	2/5134 (0.0%)
6	E6	0.47	0/3772	0.56	2/5134 (0.0%)
6	F6	0.47	0/3772	0.56	2/5134 (0.0%)
7	A7	0.53	0/893	0.63	0/1207
7	B7	0.53	0/893	0.63	0/1207
7	C7	0.53	0/893	0.63	0/1207
7	D7	0.53	0/893	0.63	0/1207
7	E7	0.53	0/893	0.63	0/1207
7	F7	0.53	0/893	0.63	0/1207
All	All	0.48	8/98910 (0.0%)	0.59	52/134508 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	A3	0	1
3	B3	0	1
3	C3	0	1
3	D3	0	1
3	E3	0	1
3	F3	0	1
5	H5	0	1
All	All	0	7

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	C5	39	GLU	CG-CD	-6.40	1.42	1.51
5	E5	39	GLU	CG-CD	-6.24	1.42	1.51
5	H5	321	LYS	CD-CE	-5.90	1.36	1.51
5	H5	321	LYS	CB-CG	-5.51	1.37	1.52
5	A5	45	ARG	CG-CD	-5.15	1.39	1.51
5	K5	39	GLU	CG-CD	-5.11	1.44	1.51
5	G5	45	ARG	CG-CD	-5.08	1.39	1.51
5	C5	39	GLU	CB-CG	-5.06	1.42	1.52

All (52) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	H5	321	LYS	CB-CG-CD	-9.91	85.83	111.60
5	A5	45	ARG	NE-CZ-NH1	9.58	125.09	120.30
5	A5	381	ARG	NE-CZ-NH2	-8.98	115.81	120.30
5	G5	381	ARG	NE-CZ-NH2	-8.80	115.90	120.30
5	L5	45	ARG	CB-CG-CD	-8.61	89.22	111.60
5	L5	321	LYS	CB-CG-CD	-8.18	90.33	111.60
5	F5	321	LYS	CB-CG-CD	-8.18	90.34	111.60
5	E5	321	LYS	CA-CB-CG	-7.86	96.10	113.40
5	D5	45	ARG	CB-CG-CD	-7.81	91.29	111.60
5	J5	45	ARG	CB-CG-CD	-7.79	91.36	111.60
5	F5	321	LYS	CD-CE-NZ	-7.70	93.98	111.70
5	E5	45	ARG	CG-CD-NE	-7.63	95.77	111.80
5	L5	321	LYS	CD-CE-NZ	-7.53	94.39	111.70
5	K5	45	ARG	NE-CZ-NH2	-7.42	116.59	120.30
5	K5	45	ARG	CG-CD-NE	-7.38	96.30	111.80
5	B5	104	ARG	NE-CZ-NH1	-6.79	116.91	120.30
5	F5	104	ARG	NE-CZ-NH1	-6.77	116.91	120.30
5	H5	104	ARG	NE-CZ-NH1	-6.75	116.92	120.30
5	L5	104	ARG	NE-CZ-NH1	-6.70	116.95	120.30
5	D5	104	ARG	NE-CZ-NH1	-6.65	116.97	120.30
5	J5	104	ARG	NE-CZ-NH1	-6.59	117.00	120.30
5	J5	45	ARG	CG-CD-NE	6.21	124.84	111.80
5	D5	45	ARG	CG-CD-NE	6.19	124.79	111.80
5	G5	45	ARG	NE-CZ-NH2	-6.15	117.22	120.30
5	I5	45	ARG	NE-CZ-NH1	-6.12	117.24	120.30
5	H5	321	LYS	CD-CE-NZ	-6.06	97.76	111.70
5	K5	45	ARG	CB-CG-CD	-5.83	96.45	111.60
5	C5	45	ARG	NE-CZ-NH1	-5.82	117.39	120.30
5	D5	321	LYS	CD-CE-NZ	-5.65	98.70	111.70
5	F5	45	ARG	CG-CD-NE	-5.51	100.22	111.80
5	G5	208	LEU	CA-CB-CG	5.40	127.72	115.30
5	A5	208	LEU	CA-CB-CG	5.36	127.62	115.30
5	L5	207	LYS	CD-CE-NZ	-5.33	99.43	111.70
5	E5	208	LEU	CA-CB-CG	5.29	127.48	115.30
5	K5	208	LEU	CA-CB-CG	5.28	127.45	115.30
6	B6	1	MET	CG-SD-CE	5.28	108.65	100.20
5	I5	208	LEU	CA-CB-CG	5.28	127.44	115.30
6	A6	1	MET	CG-SD-CE	5.28	108.64	100.20
6	C6	1	MET	CG-SD-CE	5.28	108.64	100.20
6	D6	1	MET	CG-SD-CE	5.28	108.64	100.20
6	F6	1	MET	CG-SD-CE	5.27	108.63	100.20
5	C5	208	LEU	CA-CB-CG	5.27	127.42	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	E6	1	MET	CG-SD-CE	5.26	108.61	100.20
5	E5	45	ARG	NE-CZ-NH2	-5.19	117.70	120.30
5	L5	45	ARG	CG-CD-NE	5.15	122.61	111.80
6	B6	1	MET	CB-CG-SD	5.06	127.57	112.40
6	F6	1	MET	CB-CG-SD	5.06	127.57	112.40
6	D6	1	MET	CB-CG-SD	5.05	127.55	112.40
6	C6	1	MET	CB-CG-SD	5.05	127.55	112.40
6	E6	1	MET	CB-CG-SD	5.05	127.54	112.40
6	A6	1	MET	CB-CG-SD	5.04	127.52	112.40
5	A5	45	ARG	NE-CZ-NH2	-5.03	117.79	120.30

There are no chirality outliers.

All (7) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	A3	103	GLN	Peptide
3	B3	103	GLN	Peptide
3	C3	103	GLN	Peptide
3	D3	103	GLN	Peptide
3	E3	103	GLN	Peptide
3	F3	103	GLN	Peptide
5	H5	320	GLN	Peptide

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	A1	1091	0	1069	56	0
1	B1	1091	0	1069	58	0
1	C1	1091	0	1069	61	0
1	D1	1091	0	1069	60	0
1	E1	1091	0	1069	62	0
1	F1	1091	0	1069	60	0
2	A2	1416	0	1406	86	0
2	B2	1416	0	1406	93	0
2	C2	1416	0	1406	90	0
2	D2	1416	0	1406	102	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	E2	1416	0	1406	92	0
2	F2	1416	0	1406	91	0
3	A3	1944	0	1902	122	0
3	B3	1944	0	1902	111	0
3	C3	1944	0	1902	125	0
3	D3	1944	0	1902	123	0
3	E3	1944	0	1902	127	0
3	F3	1944	0	1902	121	0
4	A4	965	0	931	68	0
4	B4	965	0	931	66	0
4	C4	965	0	931	68	0
4	D4	965	0	931	68	0
4	E4	965	0	931	65	0
4	F4	965	0	931	66	0
5	A5	3101	0	3001	221	0
5	B5	3103	0	3008	186	0
5	C5	3101	0	3001	209	0
5	D5	3103	0	3008	200	0
5	E5	3101	0	3001	209	0
5	F5	3103	0	3008	195	0
5	G5	3101	0	3001	207	0
5	H5	3103	0	3008	191	0
5	I5	3101	0	3001	215	0
5	J5	3103	0	3008	193	0
5	K5	3101	0	3001	214	0
5	L5	3103	0	3008	200	0
6	A6	3721	0	3660	165	0
6	B6	3721	0	3660	164	0
6	C6	3721	0	3660	162	0
6	D6	3721	0	3660	163	0
6	E6	3721	0	3660	169	0
6	F6	3721	0	3660	166	0
7	A7	883	0	892	78	0
7	B7	883	0	892	80	0
7	C7	883	0	892	77	0
7	D7	883	0	892	92	0
7	E7	883	0	892	73	0
7	F7	883	0	892	68	0
All	All	97344	0	95214	4823	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 25.

All (4823) 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)
3:E3:106:GLN:HE22	5:G5:143:LEU:HA	1.29	0.98
5:H5:320:GLN:HE22	5:H5:403:PRO:HA	1.31	0.96
3:B3:106:GLN:HE22	5:A5:143:LEU:HA	1.29	0.95
4:A4:71:ASN:HD21	5:B5:90:PRO:HA	1.28	0.95
2:C2:30:ILE:HD13	5:E5:52:LEU:HD11	1.48	0.95
4:D4:71:ASN:HD21	5:H5:90:PRO:HA	1.32	0.94
4:B4:71:ASN:HD21	5:D5:90:PRO:HA	1.32	0.94
3:C3:106:GLN:HE22	5:C5:143:LEU:HA	1.32	0.93
4:E4:71:ASN:HD21	5:J5:90:PRO:HA	1.33	0.93
3:A3:17:GLU:OE2	7:F7:59:ARG:NH2	2.01	0.93
5:J5:66:ASN:HB3	5:J5:76:MET:HG2	1.51	0.92
5:D5:66:ASN:HB3	5:D5:76:MET:HG2	1.51	0.92
5:D5:321:LYS:NZ	5:E5:381:ARG:HH21	1.66	0.92
5:B5:320:GLN:HE22	5:B5:403:PRO:HA	1.34	0.91
3:F3:17:GLU:OE2	7:E7:59:ARG:NH2	2.03	0.91
5:E5:353:TYR:CE1	5:E5:368:LEU:HB3	2.05	0.91
2:E2:30:ILE:HD13	5:I5:52:LEU:HD11	1.51	0.91
5:A5:353:TYR:CE1	5:A5:368:LEU:HB3	2.06	0.91
5:J5:321:LYS:NZ	5:K5:381:ARG:HH21	1.69	0.90
3:D3:87:PHE:HD2	7:C7:41:ASN:HD22	1.13	0.90
5:G5:353:TYR:CE1	5:G5:368:LEU:HB3	2.07	0.90
2:F2:25:GLU:OE2	5:K5:45:ARG:NH1	2.04	0.90
2:F2:30:ILE:HD13	5:K5:52:LEU:HD11	1.51	0.90
2:A2:30:ILE:HD13	5:A5:52:LEU:HD11	1.52	0.90
4:C4:71:ASN:HD21	5:F5:90:PRO:HA	1.36	0.89
5:C5:106:LYS:NZ	5:C5:162:ILE:O	2.05	0.89
5:I5:106:LYS:NZ	5:I5:162:ILE:O	2.05	0.89
2:B2:30:ILE:HD13	5:C5:52:LEU:HD11	1.54	0.89
5:I5:353:TYR:CE1	5:I5:368:LEU:HB3	2.08	0.89
5:K5:353:TYR:CE1	5:K5:368:LEU:HB3	2.07	0.88
4:F4:71:ASN:HD21	5:L5:90:PRO:HA	1.36	0.88
3:F3:106:GLN:HE22	5:I5:143:LEU:HA	1.39	0.88
5:F5:103:SER:HA	5:F5:132:ILE:HG22	1.57	0.87
5:A5:106:LYS:NZ	5:A5:162:ILE:O	2.08	0.87
5:H5:103:SER:HA	5:H5:132:ILE:HG22	1.57	0.86
5:K5:106:LYS:NZ	5:K5:162:ILE:O	2.08	0.86
2:D2:30:ILE:HD13	5:G5:52:LEU:HD11	1.53	0.86
5:D5:381:ARG:NH2	5:E5:321:LYS:HG2	1.90	0.86
5:G5:106:LYS:NZ	5:G5:162:ILE:O	2.08	0.86
5:D5:103:SER:HA	5:D5:132:ILE:HG22	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:321:LYS:HD2	5:L5:381:ARG:HH11	1.37	0.86
5:E5:106:LYS:NZ	5:E5:162:ILE:O	2.09	0.86
3:C3:228:LYS:NZ	4:B4:10:GLU:OE2	2.08	0.86
5:L5:103:SER:HA	5:L5:132:ILE:HG22	1.57	0.85
3:D3:106:GLN:HE22	5:E5:143:LEU:HA	1.41	0.85
5:J5:103:SER:HA	5:J5:132:ILE:HG22	1.58	0.85
3:C3:87:PHE:HD2	7:B7:41:ASN:HD22	1.25	0.85
3:A3:106:GLN:HE22	5:K5:143:LEU:HA	1.41	0.85
5:I5:346:TYR:HD2	5:I5:381:ARG:NH2	1.73	0.84
6:B6:497:LEU:O	7:A7:25:LYS:NZ	2.10	0.84
6:A6:144:VAL:HG11	6:A6:150:VAL:HG13	1.60	0.84
6:C6:144:VAL:HG11	6:C6:150:VAL:HG13	1.60	0.84
6:B6:144:VAL:HG11	6:B6:150:VAL:HG13	1.60	0.84
3:D3:115:ILE:HD11	4:C4:90:ARG:HE	1.43	0.84
6:D6:144:VAL:HG11	6:D6:150:VAL:HG13	1.60	0.83
3:B3:17:GLU:OE2	7:A7:59:ARG:NH2	2.10	0.83
3:E3:87:PHE:HD2	7:D7:41:ASN:HD22	1.26	0.83
2:E2:123:LYS:NZ	2:E2:180:GLU:OE1	2.12	0.83
6:F6:497:LEU:O	7:E7:25:LYS:NZ	2.10	0.83
5:K5:18:LEU:HD21	5:K5:53:ARG:HB3	1.61	0.82
2:C2:123:LYS:NZ	2:C2:180:GLU:OE1	2.12	0.82
5:E5:18:LEU:HD21	5:E5:53:ARG:HB3	1.61	0.82
6:F6:144:VAL:HG11	6:F6:150:VAL:HG13	1.60	0.82
2:D2:123:LYS:NZ	2:D2:180:GLU:OE1	2.12	0.82
3:B3:115:ILE:HD11	4:A4:90:ARG:HE	1.44	0.82
3:F3:115:ILE:HD11	4:E4:90:ARG:HE	1.44	0.82
3:B3:228:LYS:NZ	4:A4:10:GLU:OE2	2.13	0.82
5:B5:240:ASN:HB3	5:C5:321:LYS:HG3	1.62	0.82
6:E6:144:VAL:HG11	6:E6:150:VAL:HG13	1.60	0.82
2:F2:123:LYS:NZ	2:F2:180:GLU:OE1	2.12	0.82
2:A2:123:LYS:NZ	2:A2:180:GLU:OE1	2.12	0.82
5:K5:45:ARG:HH22	5:L5:45:ARG:CZ	1.93	0.82
4:B4:42:VAL:HG12	4:B4:54:PRO:HB3	1.62	0.81
5:I5:79:ILE:HG23	5:I5:80:ILE:HG23	1.62	0.81
5:J5:113:THR:HG22	5:J5:158:ALA:HB2	1.62	0.81
4:A4:42:VAL:HG12	4:A4:54:PRO:HB3	1.62	0.81
4:F4:42:VAL:HG12	4:F4:54:PRO:HB3	1.62	0.81
5:D5:2:SER:HA	5:D5:13:ASN:HB3	1.60	0.81
4:C4:42:VAL:HG12	4:C4:54:PRO:HB3	1.62	0.81
4:D4:42:VAL:HG12	4:D4:54:PRO:HB3	1.62	0.81
4:E4:42:VAL:HG12	4:E4:54:PRO:HB3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E5:79:ILE:HG23	5:E5:80:ILE:HG23	1.63	0.81
2:B2:123:LYS:NZ	2:B2:180:GLU:OE1	2.12	0.81
5:K5:281:GLN:HB2	5:K5:301:LEU:HD11	1.63	0.81
3:C3:115:ILE:HD11	4:B4:90:ARG:HE	1.45	0.81
5:A5:79:ILE:HG23	5:A5:80:ILE:HG23	1.62	0.81
5:H5:240:ASN:HB3	5:I5:321:LYS:HG3	1.61	0.81
3:E3:115:ILE:HD11	4:D4:90:ARG:HE	1.44	0.81
3:C3:117:ASP:OD2	7:A7:1:MET:N	2.13	0.81
5:F5:113:THR:HG22	5:F5:158:ALA:HB2	1.63	0.81
6:C6:497:LEU:O	7:B7:25:LYS:NZ	2.14	0.81
5:D5:113:THR:HG22	5:D5:158:ALA:HB2	1.62	0.81
6:A6:497:LEU:O	7:F7:25:LYS:NZ	2.12	0.81
3:A3:117:ASP:OD2	7:E7:1:MET:N	2.14	0.80
5:C5:79:ILE:HG23	5:C5:80:ILE:HG23	1.62	0.80
5:H5:113:THR:HG22	5:H5:158:ALA:HB2	1.63	0.80
5:A5:150:ILE:HD11	7:F7:16:ARG:HD3	1.63	0.80
5:K5:79:ILE:HG23	5:K5:80:ILE:HG23	1.62	0.80
5:G5:79:ILE:HG23	5:G5:80:ILE:HG23	1.61	0.80
5:L5:113:THR:HG22	5:L5:158:ALA:HB2	1.63	0.80
5:B5:113:THR:HG22	5:B5:158:ALA:HB2	1.64	0.80
5:H5:2:SER:HA	5:H5:13:ASN:HB3	1.63	0.79
5:J5:119:ASN:N	5:L5:104:ARG:HH12	1.80	0.79
5:K5:150:ILE:HD11	7:E7:16:ARG:HD3	1.63	0.79
5:E5:281:GLN:HB2	5:E5:301:LEU:HD11	1.64	0.79
2:E2:25:GLU:OE2	5:I5:45:ARG:NH1	2.15	0.79
5:B5:104:ARG:HH12	5:L5:119:ASN:N	1.80	0.79
4:E4:80:ASP:OD2	4:E4:98:ARG:NH1	2.16	0.79
4:F4:80:ASP:OD2	4:F4:98:ARG:NH1	2.16	0.79
5:J5:19:ARG:NH2	5:J5:37:ASP:O	2.16	0.79
2:F2:131:LYS:NZ	5:L5:194:GLU:OE2	2.16	0.79
5:B5:19:ARG:NH2	5:B5:37:ASP:O	2.15	0.79
3:D3:98:PRO:HD3	4:C4:34:VAL:HG23	1.65	0.78
5:B5:119:ASN:N	5:D5:104:ARG:HH12	1.80	0.78
5:G5:150:ILE:HD11	7:C7:16:ARG:HD3	1.64	0.78
5:H5:19:ARG:NH2	5:H5:37:ASP:O	2.16	0.78
5:I5:150:ILE:HD11	7:D7:16:ARG:HD3	1.65	0.78
5:D5:19:ARG:NH2	5:D5:37:ASP:O	2.16	0.78
5:D5:119:ASN:N	5:F5:104:ARG:HH12	1.80	0.78
5:H5:119:ASN:N	5:J5:104:ARG:HH12	1.80	0.78
3:A3:87:PHE:HD2	7:F7:41:ASN:HD22	1.32	0.78
4:B4:80:ASP:OD2	4:B4:98:ARG:NH1	2.16	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:C5:150:ILE:HD11	7:A7:16:ARG:HD3	1.63	0.78
6:D6:267:VAL:HG12	6:D6:295:LEU:HB2	1.66	0.78
4:A4:80:ASP:OD2	4:A4:98:ARG:NH1	2.16	0.78
4:D4:80:ASP:OD2	4:D4:98:ARG:NH1	2.16	0.78
5:B5:315:ARG:O	5:B5:368:LEU:HA	1.84	0.78
5:C5:3:LEU:HA	5:C5:11:GLN:O	1.84	0.78
5:G5:281:GLN:HB2	5:G5:301:LEU:HD11	1.66	0.78
5:E5:150:ILE:HD11	7:B7:16:ARG:HD3	1.64	0.77
5:L5:2:SER:OG	5:L5:13:ASN:ND2	2.16	0.77
3:D3:117:ASP:OD2	7:B7:1:MET:N	2.17	0.77
4:C4:80:ASP:OD2	4:C4:98:ARG:NH1	2.16	0.77
5:F5:2:SER:OG	5:F5:13:ASN:ND2	2.17	0.77
5:F5:119:ASN:N	5:H5:104:ARG:HH12	1.81	0.77
2:D2:131:LYS:NZ	5:H5:194:GLU:OE2	2.17	0.77
6:E6:497:LEU:O	7:D7:25:LYS:NZ	2.17	0.77
3:D3:17:GLU:OE2	7:C7:59:ARG:NH2	2.17	0.77
3:F3:98:PRO:HD3	4:E4:34:VAL:HG23	1.67	0.77
5:K5:3:LEU:HA	5:K5:11:GLN:O	1.85	0.77
6:C6:267:VAL:HG12	6:C6:295:LEU:HB2	1.66	0.77
5:C5:221:ASP:HB2	5:C5:252:MET:HG2	1.67	0.77
5:I5:3:LEU:HA	5:I5:11:GLN:O	1.84	0.77
5:A5:281:GLN:HB2	5:A5:301:LEU:HD11	1.66	0.77
3:F3:87:PHE:HD2	7:E7:41:ASN:HD22	1.33	0.77
5:J5:315:ARG:O	5:J5:368:LEU:HA	1.85	0.77
5:F5:3:LEU:HD12	5:F5:57:GLU:HG2	1.67	0.77
6:A6:267:VAL:HG12	6:A6:295:LEU:HB2	1.66	0.77
5:D5:315:ARG:O	5:D5:368:LEU:HA	1.84	0.77
5:C5:162:ILE:HD11	6:C6:56:PHE:C	2.06	0.76
2:D2:15:GLN:NE2	7:D7:37:LYS:O	2.15	0.76
5:D5:191:ARG:HH21	5:D5:235:ASN:HB3	1.50	0.76
2:A2:131:LYS:NZ	5:B5:194:GLU:OE2	2.17	0.76
2:D2:44:GLY:O	5:G5:78:GLN:NE2	2.18	0.76
5:A5:3:LEU:HA	5:A5:11:GLN:O	1.85	0.76
5:G5:3:LEU:HA	5:G5:11:GLN:O	1.85	0.76
5:H5:315:ARG:O	5:H5:368:LEU:HA	1.86	0.76
5:E5:221:ASP:HB2	5:E5:252:MET:HG2	1.68	0.76
5:F5:19:ARG:NH2	5:F5:37:ASP:O	2.19	0.76
5:I5:315:ARG:NE	5:I5:369:GLU:OE2	2.18	0.76
6:A6:440:ASP:HB3	6:A6:443:GLN:HB2	1.68	0.76
5:I5:221:ASP:HB2	5:I5:252:MET:HG2	1.67	0.76
5:K5:216:ASP:HA	5:L5:291:PRO:HG2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:44:GLY:O	5:A5:78:GLN:NE2	2.19	0.76
5:C5:315:ARG:NE	5:C5:369:GLU:OE2	2.18	0.76
6:F6:267:VAL:HG12	6:F6:295:LEU:HB2	1.66	0.76
5:K5:315:ARG:NE	5:K5:369:GLU:OE2	2.19	0.76
6:B6:267:VAL:HG12	6:B6:295:LEU:HB2	1.66	0.76
3:A3:115:ILE:HD11	4:F4:90:ARG:HE	1.51	0.75
5:I5:162:ILE:HD11	6:F6:56:PHE:C	2.06	0.75
5:L5:19:ARG:NH2	5:L5:37:ASP:O	2.19	0.75
2:E2:131:LYS:NZ	5:J5:194:GLU:OE2	2.18	0.75
5:E5:315:ARG:NE	5:E5:369:GLU:OE2	2.19	0.75
5:I5:45:ARG:HH12	5:J5:45:ARG:NH2	1.82	0.75
6:F6:440:ASP:HB3	6:F6:443:GLN:HB2	1.68	0.75
6:B6:440:ASP:HB3	6:B6:443:GLN:HB2	1.68	0.75
5:G5:315:ARG:NE	5:G5:369:GLU:OE2	2.19	0.75
5:J5:2:SER:HA	5:J5:13:ASN:HB3	1.67	0.75
2:C2:131:LYS:NZ	5:F5:194:GLU:OE2	2.17	0.75
2:B2:131:LYS:NZ	5:D5:194:GLU:OE2	2.18	0.75
5:E5:3:LEU:HA	5:E5:11:GLN:O	1.86	0.75
5:F5:2:SER:HA	5:F5:13:ASN:HB3	1.68	0.75
5:J5:191:ARG:HH21	5:J5:235:ASN:HB3	1.50	0.75
6:E6:267:VAL:HG12	6:E6:295:LEU:HB2	1.66	0.75
6:F6:52:VAL:O	6:F6:56:PHE:HB2	1.86	0.75
2:F2:8:TYR:CZ	3:A3:93:ILE:HD11	2.22	0.74
5:A5:315:ARG:NE	5:A5:369:GLU:OE2	2.19	0.74
5:C5:45:ARG:HH12	5:D5:45:ARG:NH2	1.84	0.74
5:I5:216:ASP:HA	5:J5:291:PRO:HG2	1.69	0.74
4:A4:59:LYS:NZ	5:A5:66:ASN:OD1	2.20	0.74
5:A5:321:LYS:HD2	5:L5:381:ARG:NH1	2.01	0.74
5:K5:221:ASP:HB2	5:K5:252:MET:HG2	1.69	0.74
6:B6:52:VAL:O	6:B6:56:PHE:HB2	1.87	0.74
2:A2:25:GLU:OE1	5:B5:30:TYR:OH	2.05	0.74
2:B2:25:GLU:OE1	5:D5:30:TYR:OH	2.04	0.74
3:D3:20:ILE:O	3:D3:167:SER:OG	2.05	0.74
2:C2:25:GLU:OE1	5:F5:30:TYR:OH	2.05	0.74
3:E3:20:ILE:O	3:E3:167:SER:OG	2.05	0.74
5:G5:221:ASP:HB2	5:G5:252:MET:HG2	1.69	0.74
6:A6:52:VAL:O	6:A6:56:PHE:HB2	1.87	0.74
3:B3:20:ILE:O	3:B3:167:SER:OG	2.05	0.74
5:E5:216:ASP:HA	5:F5:291:PRO:HG2	1.68	0.74
6:C6:52:VAL:O	6:C6:56:PHE:HB2	1.86	0.74
6:C6:440:ASP:HB3	6:C6:443:GLN:HB2	1.68	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:17:GLU:OE2	7:B7:59:ARG:NH2	2.20	0.74
3:C3:20:ILE:O	3:C3:167:SER:OG	2.05	0.74
5:L5:2:SER:HA	5:L5:13:ASN:HB3	1.70	0.74
5:L5:236:PRO:HA	5:L5:239:LEU:HD13	1.69	0.74
5:L5:315:ARG:O	5:L5:368:LEU:HA	1.88	0.74
6:D6:52:VAL:O	6:D6:56:PHE:HB2	1.87	0.74
6:E6:440:ASP:HB3	6:E6:443:GLN:HB2	1.68	0.74
2:F2:25:GLU:OE1	5:L5:30:TYR:OH	2.06	0.73
3:A3:35:VAL:HG12	3:A3:63:VAL:HG22	1.70	0.73
6:E6:52:VAL:O	6:E6:56:PHE:HB2	1.87	0.73
5:L5:333:LYS:HD2	5:L5:397:VAL:HG13	1.70	0.73
3:D3:228:LYS:NZ	4:C4:10:GLU:OE2	2.21	0.73
2:B2:25:GLU:OE2	5:C5:45:ARG:NH1	2.21	0.73
4:A4:64:THR:HG23	5:A5:190:GLN:HE22	1.53	0.73
5:F5:315:ARG:O	5:F5:368:LEU:HA	1.88	0.73
6:D6:440:ASP:HB3	6:D6:443:GLN:HB2	1.68	0.73
1:D1:50:ILE:O	3:E3:70:SER:OG	2.04	0.73
2:D2:25:GLU:OE1	5:H5:30:TYR:OH	2.05	0.73
5:J5:333:LYS:HD2	5:J5:397:VAL:HG13	1.71	0.73
3:F3:35:VAL:HG12	3:F3:63:VAL:HG22	1.70	0.73
2:E2:48:ASP:HB3	5:I5:78:GLN:HE21	1.54	0.73
3:B3:35:VAL:HG12	3:B3:63:VAL:HG22	1.70	0.73
5:B5:102:MET:HE1	5:B5:164:VAL:HB	1.71	0.73
5:B5:333:LYS:HD2	5:B5:397:VAL:HG13	1.71	0.73
2:E2:147:GLN:NE2	2:E2:160:VAL:O	2.22	0.73
4:B4:93:ASP:OD2	4:B4:98:ARG:NH2	2.19	0.73
5:K5:195:ASN:HB3	5:L5:207:LYS:HZ1	1.52	0.72
2:D2:147:GLN:NE2	2:D2:160:VAL:O	2.22	0.72
1:D1:42:ASN:O	3:F3:187:ASN:ND2	2.19	0.72
2:E2:8:TYR:CZ	3:F3:93:ILE:HD11	2.23	0.72
3:E3:98:PRO:HD3	4:D4:34:VAL:HG23	1.69	0.72
5:D5:348:ASP:HB3	5:D5:381:ARG:HB3	1.71	0.72
5:H5:93:ARG:NH2	5:H5:141:SER:O	2.22	0.72
5:H5:333:LYS:HD2	5:H5:397:VAL:HG13	1.71	0.72
2:C2:11:TYR:O	5:E5:44:GLN:NE2	2.20	0.72
5:D5:333:LYS:HD2	5:D5:397:VAL:HG13	1.71	0.72
3:D3:35:VAL:HG12	3:D3:63:VAL:HG22	1.70	0.72
5:F5:333:LYS:HD2	5:F5:397:VAL:HG13	1.70	0.72
5:H5:102:MET:HE1	5:H5:164:VAL:HB	1.71	0.72
2:B2:48:ASP:HB3	5:C5:78:GLN:HE21	1.53	0.72
2:F2:147:GLN:NE2	2:F2:160:VAL:O	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:87:PHE:HD2	7:A7:41:ASN:HD22	1.36	0.72
3:F3:20:ILE:O	3:F3:167:SER:OG	2.05	0.72
5:G5:216:ASP:HA	5:H5:291:PRO:HG2	1.72	0.72
5:K5:332:ILE:HD13	5:K5:399:ILE:HD12	1.72	0.72
2:C2:48:ASP:HB3	5:E5:78:GLN:HE21	1.53	0.72
3:F3:228:LYS:NZ	4:E4:10:GLU:OE2	2.23	0.72
5:A5:216:ASP:HA	5:B5:291:PRO:HG2	1.72	0.72
5:B5:93:ARG:NH2	5:B5:141:SER:O	2.22	0.72
5:C5:217:LEU:HB3	5:C5:256:ILE:HG23	1.71	0.72
5:E5:118:ASN:OD1	7:B7:16:ARG:NH1	2.23	0.72
6:A6:275:LYS:NZ	6:B6:144:VAL:O	2.21	0.72
6:D6:284:VAL:HG13	6:D6:289:GLN:HB2	1.72	0.72
6:F6:284:VAL:HG13	6:F6:289:GLN:HB2	1.72	0.72
5:B5:236:PRO:HA	5:B5:239:LEU:HD13	1.72	0.71
5:G5:316:LEU:HD21	5:G5:368:LEU:HD12	1.71	0.71
5:H5:236:PRO:HA	5:H5:239:LEU:HD13	1.72	0.71
6:E6:491:ILE:HG12	7:D7:98:ILE:HG12	1.71	0.71
2:B2:147:GLN:NE2	2:B2:160:VAL:O	2.22	0.71
3:C3:35:VAL:HG12	3:C3:63:VAL:HG22	1.70	0.71
6:A6:144:VAL:O	6:F6:275:LYS:NZ	2.21	0.71
2:C2:14:LYS:HG3	7:C7:42:ASP:OD1	1.90	0.71
5:J5:188:ARG:NH1	5:J5:210:GLN:OE1	2.23	0.71
5:K5:217:LEU:HB3	5:K5:256:ILE:HG23	1.71	0.71
6:D6:497:LEU:O	7:C7:25:LYS:NZ	2.23	0.71
6:E6:284:VAL:HG13	6:E6:289:GLN:HB2	1.72	0.71
3:E3:35:VAL:HG12	3:E3:63:VAL:HG22	1.70	0.71
5:I5:217:LEU:HB3	5:I5:256:ILE:HG23	1.71	0.71
6:A6:163:VAL:HG22	6:A6:172:VAL:HG22	1.73	0.71
2:C2:33:TRP:CD1	5:E5:52:LEU:HD13	2.25	0.71
2:F2:48:ASP:HB3	5:K5:78:GLN:HE21	1.55	0.71
5:A5:332:ILE:HD13	5:A5:399:ILE:HD12	1.72	0.71
5:D5:188:ARG:NH1	5:D5:210:GLN:OE1	2.23	0.71
5:E5:217:LEU:HB3	5:E5:256:ILE:HG23	1.72	0.71
6:A6:284:VAL:HG13	6:A6:289:GLN:HB2	1.72	0.71
6:F6:53:ALA:O	6:F6:57:GLY:N	2.15	0.71
2:C2:147:GLN:NE2	2:C2:160:VAL:O	2.22	0.71
4:F4:62:LEU:HD23	4:F4:78:VAL:HG23	1.73	0.71
6:B6:275:LYS:NZ	6:C6:144:VAL:O	2.22	0.71
6:B6:284:VAL:HG13	6:B6:289:GLN:HB2	1.72	0.71
2:A2:33:TRP:HD1	5:A5:52:LEU:HD13	1.56	0.71
2:E2:33:TRP:HD1	5:I5:52:LEU:HD13	1.56	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D4:62:LEU:HD23	4:D4:78:VAL:HG23	1.73	0.71
5:G5:217:LEU:HB3	5:G5:256:ILE:HG23	1.71	0.71
5:H5:188:ARG:NH1	5:H5:210:GLN:OE1	2.24	0.71
5:K5:118:ASN:OD1	7:E7:16:ARG:NH1	2.23	0.71
6:C6:284:VAL:HG13	6:C6:289:GLN:HB2	1.72	0.71
2:D2:33:TRP:HD1	5:G5:52:LEU:HD13	1.56	0.71
2:E2:128:LYS:NZ	5:J5:194:GLU:OE2	2.24	0.71
5:G5:26:TYR:OH	5:G5:45:ARG:NH2	2.23	0.71
5:I5:318:ALA:HB3	5:I5:401:THR:HA	1.73	0.71
5:K5:317:THR:OG1	5:K5:366:THR:O	2.09	0.71
6:B6:163:VAL:HG22	6:B6:172:VAL:HG22	1.73	0.71
4:F4:93:ASP:OD2	4:F4:98:ARG:NH2	2.19	0.71
5:C5:216:ASP:HA	5:D5:291:PRO:HG2	1.72	0.71
7:B7:56:LEU:HB3	7:B7:66:ILE:HD11	1.73	0.71
6:F6:163:VAL:HG22	6:F6:172:VAL:HG22	1.73	0.70
2:A2:33:TRP:CD1	5:A5:52:LEU:HD13	2.26	0.70
2:A2:147:GLN:NE2	2:A2:160:VAL:O	2.22	0.70
4:A4:62:LEU:HD23	4:A4:78:VAL:HG23	1.73	0.70
2:B2:12:LEU:HA	5:C5:44:GLN:NE2	2.06	0.70
2:E2:12:LEU:HA	5:I5:44:GLN:NE2	2.05	0.70
5:A5:221:ASP:HB2	5:A5:252:MET:HG2	1.73	0.70
5:H5:41:PRO:HB2	7:D7:17:GLY:HA3	1.73	0.70
5:I5:39:GLU:OE2	7:E7:34:THR:HG23	1.91	0.70
6:C6:163:VAL:HG22	6:C6:172:VAL:HG22	1.73	0.70
7:C7:56:LEU:HB3	7:C7:66:ILE:HD11	1.73	0.70
7:D7:56:LEU:HB3	7:D7:66:ILE:HD11	1.73	0.70
7:E7:56:LEU:HB3	7:E7:66:ILE:HD11	1.73	0.70
5:A5:316:LEU:HD21	5:A5:368:LEU:HD12	1.72	0.70
5:E5:162:ILE:H	5:E5:162:ILE:HD12	1.56	0.70
5:F5:236:PRO:HA	5:F5:239:LEU:HD13	1.73	0.70
7:F7:56:LEU:HB3	7:F7:66:ILE:HD11	1.73	0.70
2:F2:12:LEU:HA	5:K5:44:GLN:NE2	2.06	0.70
5:D5:236:PRO:HA	5:D5:239:LEU:HD13	1.73	0.70
7:A7:56:LEU:HB3	7:A7:66:ILE:HD11	1.73	0.70
5:A5:39:GLU:OE2	7:A7:34:THR:HG23	1.91	0.70
5:B5:188:ARG:NH1	5:B5:210:GLN:OE1	2.24	0.70
5:C5:118:ASN:OD1	7:A7:16:ARG:NH1	2.24	0.70
6:B6:53:ALA:O	6:B6:57:GLY:N	2.15	0.70
6:E6:163:VAL:HG22	6:E6:172:VAL:HG22	1.73	0.70
4:E4:93:ASP:OD2	4:E4:98:ARG:NH2	2.19	0.70
5:E5:102:MET:HG3	5:E5:130:VAL:HG21	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G5:162:ILE:H	5:G5:162:ILE:HD12	1.56	0.70
5:J5:236:PRO:HA	5:J5:239:LEU:HD13	1.73	0.70
2:E2:25:GLU:OE1	5:J5:30:TYR:OH	2.07	0.70
2:D2:128:LYS:NZ	5:H5:194:GLU:OE2	2.25	0.70
3:B3:117:ASP:OD2	7:F7:1:MET:N	2.24	0.70
4:E4:62:LEU:HD23	4:E4:78:VAL:HG23	1.73	0.70
5:B5:2:SER:HA	5:B5:13:ASN:HB3	1.74	0.70
6:C6:275:LYS:NZ	6:D6:144:VAL:O	2.21	0.70
6:D6:163:VAL:HG22	6:D6:172:VAL:HG22	1.73	0.70
2:B2:33:TRP:CD1	5:C5:52:LEU:HD13	2.27	0.70
2:D2:12:LEU:HA	5:G5:44:GLN:NE2	2.07	0.70
2:D2:33:TRP:CD1	5:G5:52:LEU:HD13	2.27	0.70
1:E1:56:GLY:O	1:F1:116:GLN:NE2	2.24	0.69
2:C2:33:TRP:HD1	5:E5:52:LEU:HD13	1.56	0.69
5:A5:118:ASN:OD1	7:F7:16:ARG:NH1	2.25	0.69
5:A5:217:LEU:HB3	5:A5:256:ILE:HG23	1.71	0.69
4:C4:62:LEU:HD23	4:C4:78:VAL:HG23	1.73	0.69
5:L5:64:TYR:HA	5:L5:67:LEU:HD13	1.74	0.69
1:B1:10:GLN:HG3	1:B1:23:LEU:HD12	1.74	0.69
1:C1:10:GLN:HG3	1:C1:23:LEU:HD12	1.74	0.69
2:C2:12:LEU:HA	5:E5:44:GLN:NE2	2.07	0.69
2:F2:33:TRP:HD1	5:K5:52:LEU:HD13	1.56	0.69
5:A5:162:ILE:H	5:A5:162:ILE:HD12	1.57	0.69
5:A5:321:LYS:HG2	5:L5:240:ASN:HB3	1.74	0.69
6:D6:53:ALA:O	6:D6:57:GLY:N	2.15	0.69
2:D2:48:ASP:HB3	5:G5:78:GLN:NE2	2.08	0.69
2:F2:128:LYS:NZ	5:L5:194:GLU:OE2	2.25	0.69
5:L5:191:ARG:HH22	5:L5:235:ASN:HB3	1.56	0.69
6:D6:113:ILE:HG22	6:D6:117:ASN:HD21	1.58	0.69
3:D3:30:ARG:NH2	3:D3:167:SER:O	2.25	0.69
5:F5:188:ARG:NH1	5:F5:210:GLN:OE1	2.25	0.69
5:F5:191:ARG:HH22	5:F5:235:ASN:HB3	1.56	0.69
5:I5:332:ILE:HD13	5:I5:399:ILE:HD12	1.74	0.69
6:D6:113:ILE:O	6:D6:117:ASN:ND2	2.26	0.69
1:E1:50:ILE:O	3:F3:70:SER:OG	2.08	0.69
2:A2:12:LEU:HA	5:A5:44:GLN:NE2	2.08	0.69
2:B2:33:TRP:HD1	5:C5:52:LEU:HD13	1.57	0.69
3:A3:7:MET:HB2	3:B3:136:PHE:CD1	2.28	0.69
3:A3:20:ILE:O	3:A3:167:SER:OG	2.05	0.69
3:E3:103:GLN:NE2	3:E3:106:GLN:OE1	2.26	0.69
3:F3:30:ARG:NH2	3:F3:167:SER:O	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F3:103:GLN:NE2	3:F3:106:GLN:OE1	2.26	0.69
4:D4:64:THR:HG23	5:G5:190:GLN:HE22	1.57	0.69
5:C5:318:ALA:HB3	5:C5:401:THR:HA	1.75	0.69
5:E5:317:THR:OG1	5:E5:366:THR:O	2.11	0.69
5:K5:102:MET:HG3	5:K5:130:VAL:HG21	1.73	0.69
2:C2:13:ILE:HG21	5:E5:38:GLN:HE21	1.57	0.69
2:F2:33:TRP:CD1	5:K5:52:LEU:HD13	2.27	0.69
3:A3:103:GLN:NE2	3:A3:106:GLN:OE1	2.26	0.69
3:E3:30:ARG:NH2	3:E3:167:SER:O	2.25	0.69
4:B4:64:THR:HG23	5:C5:190:GLN:HE22	1.57	0.69
5:B5:320:GLN:HB3	5:B5:327:ILE:HG23	1.75	0.69
5:C5:317:THR:OG1	5:C5:366:THR:O	2.10	0.69
5:C5:332:ILE:HD13	5:C5:399:ILE:HD12	1.73	0.69
5:H5:38:GLN:OE1	5:H5:39:GLU:N	2.25	0.69
5:L5:188:ARG:NH1	5:L5:210:GLN:OE1	2.25	0.69
6:E6:113:ILE:O	6:E6:117:ASN:ND2	2.26	0.69
6:E6:113:ILE:HG22	6:E6:117:ASN:HD21	1.58	0.69
6:F6:113:ILE:O	6:F6:117:ASN:ND2	2.26	0.69
2:B2:48:ASP:HB3	5:C5:78:GLN:NE2	2.08	0.69
2:E2:33:TRP:CD1	5:I5:52:LEU:HD13	2.26	0.69
4:B4:62:LEU:HD23	4:B4:78:VAL:HG23	1.73	0.69
5:H5:26:TYR:OH	5:H5:45:ARG:NH2	2.26	0.69
5:I5:45:ARG:HH22	5:J5:45:ARG:CZ	2.06	0.69
5:I5:317:THR:OG1	5:I5:366:THR:O	2.10	0.69
7:F7:84:THR:O	7:F7:101:SER:OG	2.11	0.69
2:A2:11:TYR:O	5:A5:44:GLN:NE2	2.24	0.69
2:B2:127:VAL:HG12	2:B2:189:ILE:HG22	1.74	0.69
2:D2:127:VAL:HG12	2:D2:189:ILE:HG22	1.74	0.69
3:D3:103:GLN:NE2	3:D3:106:GLN:OE1	2.26	0.69
5:B5:103:SER:HA	5:B5:132:ILE:HG22	1.73	0.69
6:A6:113:ILE:O	6:A6:117:ASN:ND2	2.26	0.69
6:B6:113:ILE:O	6:B6:117:ASN:ND2	2.26	0.69
6:C6:113:ILE:HG22	6:C6:117:ASN:HD21	1.58	0.69
2:B2:128:LYS:NZ	5:D5:194:GLU:OE2	2.25	0.68
6:E6:53:ALA:O	6:E6:57:GLY:N	2.15	0.68
7:C7:84:THR:O	7:C7:101:SER:OG	2.11	0.68
2:A2:48:ASP:HB3	5:A5:78:GLN:NE2	2.07	0.68
3:A3:30:ARG:NH2	3:A3:167:SER:O	2.25	0.68
5:I5:45:ARG:HH12	5:J5:45:ARG:HH22	1.41	0.68
5:I5:281:GLN:HB2	5:I5:301:LEU:HD11	1.75	0.68
1:A1:10:GLN:HG3	1:A1:23:LEU:HD12	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:228:LYS:NZ	4:F4:10:GLU:OE2	2.26	0.68
4:C4:93:ASP:OD2	4:C4:98:ARG:NH2	2.19	0.68
5:C5:281:GLN:HB2	5:C5:301:LEU:HD11	1.75	0.68
5:G5:148:SER:O	7:C7:16:ARG:NH2	2.27	0.68
2:A2:127:VAL:HG12	2:A2:189:ILE:HG22	1.74	0.68
3:C3:58:ASN:HB2	3:D3:161:ARG:HD3	1.75	0.68
3:C3:103:GLN:NE2	3:C3:106:GLN:OE1	2.26	0.68
3:E3:233:PRO:HB2	4:D4:103:PHE:CD2	2.29	0.68
5:K5:162:ILE:HD12	5:K5:162:ILE:H	1.57	0.68
6:D6:275:LYS:NZ	6:E6:144:VAL:O	2.21	0.68
6:F6:113:ILE:HG22	6:F6:117:ASN:HD21	1.58	0.68
1:D1:10:GLN:HG3	1:D1:23:LEU:HD12	1.74	0.68
3:B3:103:GLN:NE2	3:B3:106:GLN:OE1	2.26	0.68
5:E5:316:LEU:HD21	5:E5:368:LEU:HD12	1.74	0.68
5:J5:270:LYS:NZ	5:J5:284:TYR:OH	2.27	0.68
6:E6:275:LYS:NZ	6:F6:144:VAL:O	2.22	0.68
2:E2:48:ASP:HB3	5:I5:78:GLN:NE2	2.09	0.68
3:F3:117:ASP:OD2	7:D7:1:MET:N	2.25	0.68
5:D5:38:GLN:OE1	5:D5:39:GLU:N	2.25	0.68
5:E5:318:ALA:HB3	5:E5:401:THR:HA	1.76	0.68
6:A6:53:ALA:O	6:A6:57:GLY:N	2.15	0.68
7:A7:84:THR:O	7:A7:101:SER:OG	2.11	0.68
1:F1:10:GLN:HG3	1:F1:23:LEU:HD12	1.74	0.68
2:C2:127:VAL:HG12	2:C2:189:ILE:HG22	1.74	0.68
3:D3:115:ILE:HD11	4:C4:90:ARG:NE	2.09	0.68
3:F3:115:ILE:HD11	4:E4:90:ARG:NE	2.08	0.68
4:A4:93:ASP:OD2	4:A4:98:ARG:NH2	2.19	0.68
4:E4:64:THR:HG23	5:I5:190:GLN:HE22	1.59	0.68
5:A5:70:ASP:OD1	5:A5:190:GLN:NE2	2.27	0.68
5:K5:318:ALA:HB3	5:K5:401:THR:HA	1.75	0.68
6:C6:113:ILE:O	6:C6:117:ASN:ND2	2.26	0.68
6:E6:373:ASP:OD1	6:E6:377:ASN:ND2	2.27	0.68
7:B7:84:THR:O	7:B7:101:SER:OG	2.11	0.68
7:D7:84:THR:O	7:D7:101:SER:OG	2.11	0.68
3:A3:98:PRO:HD3	4:F4:34:VAL:HG23	1.76	0.68
3:C3:115:ILE:HD11	4:B4:90:ARG:NE	2.09	0.68
3:E3:115:ILE:HD11	4:D4:90:ARG:NE	2.08	0.68
4:A4:34:VAL:HG11	5:A5:62:TRP:HB2	1.75	0.68
5:B5:26:TYR:OH	5:B5:45:ARG:NH2	2.26	0.68
5:G5:317:THR:OG1	5:G5:366:THR:O	2.12	0.68
5:K5:316:LEU:HD21	5:K5:368:LEU:HD12	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L5:93:ARG:NH2	5:L5:141:SER:O	2.27	0.68
6:A6:373:ASP:OD1	6:A6:377:ASN:ND2	2.27	0.68
6:B6:373:ASP:OD1	6:B6:377:ASN:ND2	2.27	0.68
6:C6:373:ASP:OD1	6:C6:377:ASN:ND2	2.27	0.68
5:C5:45:ARG:HH22	5:D5:45:ARG:CZ	2.05	0.68
5:I5:118:ASN:OD1	7:D7:16:ARG:NH1	2.27	0.68
5:K5:356:SER:OG	5:K5:365:VAL:HG11	1.94	0.68
6:E6:487:HIS:ND1	7:D7:94:ARG:HD2	2.09	0.68
1:E1:10:GLN:HG3	1:E1:23:LEU:HD12	1.74	0.68
5:B5:191:ARG:HH22	5:B5:235:ASN:HB3	1.59	0.68
5:G5:118:ASN:OD1	7:C7:16:ARG:NH1	2.26	0.67
5:H5:191:ARG:HH22	5:H5:235:ASN:HB3	1.59	0.67
6:A6:113:ILE:HG22	6:A6:117:ASN:HD21	1.58	0.67
6:A6:154:LEU:HB2	6:A6:163:VAL:HG11	1.76	0.67
6:B6:113:ILE:HG22	6:B6:117:ASN:HD21	1.57	0.67
2:E2:127:VAL:HG12	2:E2:189:ILE:HG22	1.74	0.67
3:B3:30:ARG:NH2	3:B3:167:SER:O	2.25	0.67
3:C3:30:ARG:NH2	3:C3:167:SER:O	2.25	0.67
5:D5:270:LYS:NZ	5:D5:284:TYR:OH	2.27	0.67
5:F5:64:TYR:HA	5:F5:67:LEU:HD13	1.75	0.67
6:B6:154:LEU:HB2	6:B6:163:VAL:HG11	1.76	0.67
2:C2:48:ASP:HB3	5:E5:78:GLN:NE2	2.09	0.67
2:E2:17:TYR:CD1	6:F6:358:LYS:HG2	2.29	0.67
3:E3:228:LYS:NZ	4:D4:10:GLU:OE2	2.27	0.67
2:C2:71:ASN:ND2	5:G5:362:ASN:OD1	2.28	0.67
3:C3:106:GLN:NE2	5:C5:143:LEU:HA	2.09	0.67
5:I5:148:SER:O	7:D7:16:ARG:NH2	2.27	0.67
6:F6:373:ASP:OD1	6:F6:377:ASN:ND2	2.27	0.67
2:A2:128:LYS:NZ	5:B5:194:GLU:OE2	2.28	0.67
3:B3:115:ILE:HD11	4:A4:90:ARG:NE	2.10	0.67
4:D4:34:VAL:HG11	5:G5:62:TRP:HB2	1.75	0.67
3:A3:136:PHE:CD1	3:F3:7:MET:HB2	2.29	0.67
5:A5:148:SER:O	7:F7:16:ARG:NH2	2.28	0.67
5:I5:12:THR:HG23	5:I5:57:GLU:HB3	1.77	0.67
6:C6:154:LEU:HB2	6:C6:163:VAL:HG11	1.76	0.67
6:D6:373:ASP:OD1	6:D6:377:ASN:ND2	2.27	0.67
4:C4:64:THR:HG23	5:E5:190:GLN:HE22	1.59	0.67
4:F4:64:THR:HG23	5:K5:190:GLN:HE22	1.60	0.67
5:J5:38:GLN:OE1	5:J5:39:GLU:N	2.25	0.67
6:F6:154:LEU:HB2	6:F6:163:VAL:HG11	1.76	0.67
4:D4:93:ASP:OD2	4:D4:98:ARG:NH2	2.19	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:318:ALA:HB3	5:A5:401:THR:HA	1.76	0.67
5:B5:38:GLN:OE1	5:B5:39:GLU:N	2.26	0.67
5:G5:162:ILE:HD11	6:E6:56:PHE:C	2.15	0.67
5:H5:103:SER:H	5:H5:164:VAL:HG21	1.60	0.67
5:K5:148:SER:O	7:E7:16:ARG:NH2	2.28	0.67
2:A2:17:TYR:CD1	6:B6:358:LYS:HG2	2.30	0.67
2:D2:15:GLN:HE22	7:D7:38:SER:HA	1.59	0.67
5:G5:39:GLU:OE2	7:D7:34:THR:HG23	1.94	0.67
7:F7:55:ASP:OD1	7:F7:59:ARG:NH1	2.28	0.67
5:H5:93:ARG:HH22	5:H5:142:SER:HA	1.60	0.66
5:J5:4:THR:HG22	5:J5:6:ASN:HB2	1.76	0.66
6:A6:123:SER:HA	6:A6:136:VAL:O	1.96	0.66
3:A3:233:PRO:HB2	4:F4:103:PHE:CD2	2.30	0.66
5:A5:45:ARG:CZ	5:B5:45:ARG:NH2	2.58	0.66
2:B2:17:TYR:CD1	6:C6:358:LYS:HG2	2.30	0.66
2:F2:127:VAL:HG12	2:F2:189:ILE:HG22	1.74	0.66
5:E5:39:GLU:OE1	7:C7:35:ARG:HA	1.96	0.66
5:F5:191:ARG:HH12	5:F5:235:ASN:HB3	1.61	0.66
5:J5:103:SER:H	5:J5:164:VAL:HG21	1.61	0.66
2:B2:3:ASP:O	2:B2:7:GLN:HG3	1.96	0.66
2:C2:25:GLU:OE2	5:E5:45:ARG:CZ	2.43	0.66
5:F5:96:TRP:HZ3	5:F5:173:ALA:HB2	1.60	0.66
6:C6:53:ALA:O	6:C6:57:GLY:N	2.15	0.66
2:F2:3:ASP:O	2:F2:7:GLN:HG3	1.96	0.66
5:L5:108:LEU:H	5:L5:127:ASP:HA	1.61	0.66
6:F6:123:SER:HA	6:F6:136:VAL:O	1.95	0.66
7:B7:55:ASP:OD1	7:B7:59:ARG:NH1	2.28	0.66
2:F2:48:ASP:HB3	5:K5:78:GLN:NE2	2.10	0.66
5:D5:103:SER:H	5:D5:164:VAL:HG21	1.61	0.66
5:G5:70:ASP:OD1	5:G5:190:GLN:NE2	2.28	0.66
6:D6:123:SER:HA	6:D6:136:VAL:O	1.96	0.66
7:E7:84:THR:O	7:E7:101:SER:OG	2.11	0.66
2:C2:3:ASP:O	2:C2:7:GLN:HG3	1.96	0.66
5:B5:4:THR:HG22	5:B5:6:ASN:HB2	1.77	0.66
7:E7:55:ASP:OD1	7:E7:59:ARG:NH1	2.28	0.66
2:C2:128:LYS:NZ	5:F5:194:GLU:OE2	2.29	0.66
2:D2:3:ASP:O	2:D2:7:GLN:HG3	1.96	0.66
5:H5:266:GLU:HA	5:H5:284:TYR:CD1	2.31	0.66
5:K5:12:THR:HG23	5:K5:57:GLU:HB3	1.76	0.66
6:E6:123:SER:HA	6:E6:136:VAL:O	1.95	0.66
1:B1:2:SER:N	1:C1:66:GLN:OE1	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:A2:3:ASP:O	2:A2:7:GLN:HG3	1.96	0.66
5:A5:162:ILE:HD11	6:B6:56:PHE:C	2.17	0.66
5:C5:12:THR:HG23	5:C5:57:GLU:HB3	1.76	0.66
5:L5:38:GLN:OE1	5:L5:39:GLU:N	2.26	0.66
6:C6:123:SER:HA	6:C6:136:VAL:O	1.95	0.66
2:C2:25:GLU:OE2	5:E5:45:ARG:NH2	2.29	0.66
5:J5:348:ASP:HA	5:J5:381:ARG:HA	1.78	0.66
7:A7:55:ASP:OD1	7:A7:59:ARG:NH1	2.28	0.66
3:B3:7:MET:HB2	3:C3:136:PHE:CD1	2.31	0.65
4:C4:34:VAL:HG11	5:E5:62:TRP:HB2	1.76	0.65
5:A5:49:GLU:OE2	5:B5:53:ARG:NH2	2.26	0.65
5:A5:317:THR:OG1	5:A5:366:THR:O	2.12	0.65
5:E5:356:SER:OG	5:E5:365:VAL:HG11	1.95	0.65
5:G5:108:LEU:HD23	5:G5:112:TYR:CZ	2.31	0.65
5:H5:108:LEU:H	5:H5:127:ASP:HA	1.61	0.65
4:D4:59:LYS:NZ	5:G5:66:ASN:OD1	2.29	0.65
6:D6:154:LEU:HB2	6:D6:163:VAL:HG11	1.76	0.65
7:D7:51:ILE:HG21	7:D7:69:GLU:HB3	1.79	0.65
3:A3:141:ASN:ND2	7:E7:71:GLU:OE1	2.29	0.65
5:A5:108:LEU:HD23	5:A5:112:TYR:CZ	2.31	0.65
5:B5:266:GLU:HA	5:B5:284:TYR:CD1	2.31	0.65
5:E5:12:THR:HG23	5:E5:57:GLU:HB3	1.77	0.65
5:E5:148:SER:O	7:B7:16:ARG:NH2	2.30	0.65
5:E5:162:ILE:HD11	6:D6:56:PHE:C	2.17	0.65
5:L5:191:ARG:HH12	5:L5:235:ASN:HB3	1.60	0.65
6:B6:204:GLU:CD	6:B6:204:GLU:H	2.00	0.65
5:A5:102:MET:HG3	5:A5:130:VAL:HG21	1.78	0.65
5:B5:93:ARG:HH22	5:B5:142:SER:HA	1.61	0.65
5:C5:45:ARG:HH12	5:D5:45:ARG:HH22	1.44	0.65
6:A6:204:GLU:H	6:A6:204:GLU:CD	2.00	0.65
6:D6:485:ALA:HB2	7:C7:60:LYS:HE3	1.79	0.65
7:C7:55:ASP:OD1	7:C7:59:ARG:NH1	2.28	0.65
1:C1:37:LYS:N	1:D1:114:THR:O	2.27	0.65
1:C1:56:GLY:O	1:D1:116:GLN:NE2	2.29	0.65
5:A5:201:ILE:HD11	5:B5:272:ARG:NH2	2.12	0.65
5:G5:222:ASN:ND2	5:G5:227:PRO:O	2.30	0.65
5:H5:19:ARG:NH1	5:H5:47:ASN:OD1	2.30	0.65
5:I5:346:TYR:CD2	5:I5:381:ARG:NH2	2.62	0.65
7:E7:51:ILE:HG21	7:E7:69:GLU:HB3	1.79	0.65
5:D5:2:SER:OG	5:D5:13:ASN:ND2	2.29	0.65
5:D5:321:LYS:NZ	5:E5:381:ARG:NH2	2.44	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F6:68:THR:HG21	6:F6:303:LYS:HB3	1.79	0.65
2:E2:3:ASP:O	2:E2:7:GLN:HG3	1.96	0.65
2:F2:17:TYR:CD1	6:A6:358:LYS:HG2	2.31	0.65
5:B5:19:ARG:NH1	5:B5:47:ASN:OD1	2.30	0.65
5:B5:104:ARG:NH2	5:L5:116:ASP:O	2.30	0.65
5:D5:4:THR:HG22	5:D5:6:ASN:HB2	1.77	0.65
5:F5:38:GLN:OE1	5:F5:39:GLU:N	2.26	0.65
5:F5:266:GLU:HG2	5:F5:270:LYS:HZ2	1.62	0.65
5:G5:318:ALA:HB3	5:G5:401:THR:HA	1.79	0.65
6:B6:123:SER:HA	6:B6:136:VAL:O	1.95	0.65
6:D6:204:GLU:H	6:D6:204:GLU:CD	2.00	0.65
6:E6:154:LEU:HB2	6:E6:163:VAL:HG11	1.76	0.65
4:B4:59:LYS:NZ	5:C5:66:ASN:OD1	2.29	0.65
5:A5:321:LYS:CG	5:L5:240:ASN:HB3	2.26	0.65
5:D5:371:SER:OG	5:D5:375:ILE:O	2.15	0.65
5:F5:108:LEU:H	5:F5:127:ASP:HA	1.61	0.65
5:H5:116:ASP:O	5:J5:104:ARG:NH2	2.30	0.65
5:L5:270:LYS:NZ	5:L5:284:TYR:OH	2.30	0.65
6:A6:37:LEU:HD21	6:A6:44:ARG:HG3	1.79	0.65
6:D6:68:THR:HG21	6:D6:303:LYS:HB3	1.79	0.65
7:C7:51:ILE:HG21	7:C7:69:GLU:HB3	1.79	0.65
2:D2:11:TYR:O	5:G5:44:GLN:NE2	2.28	0.65
3:F3:143:ALA:HB2	7:D7:67:LEU:HD12	1.79	0.65
5:B5:103:SER:H	5:B5:164:VAL:HG21	1.62	0.65
5:C5:39:GLU:OE1	7:B7:35:ARG:HA	1.97	0.65
5:C5:148:SER:O	7:A7:16:ARG:NH2	2.30	0.65
5:C5:201:ILE:HD11	5:D5:272:ARG:NH2	2.12	0.65
5:D5:108:LEU:H	5:D5:127:ASP:HA	1.61	0.65
5:E5:332:ILE:HD13	5:E5:399:ILE:HD12	1.79	0.65
6:C6:68:THR:HG21	6:C6:303:LYS:HB3	1.79	0.65
1:E1:37:LYS:N	1:F1:114:THR:O	2.26	0.65
5:A5:222:ASN:ND2	5:A5:227:PRO:O	2.30	0.65
5:B5:191:ARG:HH12	5:B5:235:ASN:HB3	1.61	0.65
5:F5:4:THR:HG22	5:F5:6:ASN:HB2	1.78	0.65
5:H5:191:ARG:HH12	5:H5:235:ASN:HB3	1.61	0.65
5:J5:381:ARG:NH1	5:K5:321:LYS:HG3	2.12	0.65
6:E6:204:GLU:CD	6:E6:204:GLU:H	2.00	0.65
5:C5:222:ASN:ND2	5:C5:227:PRO:O	2.30	0.64
5:D5:19:ARG:NH1	5:D5:47:ASN:OD1	2.30	0.64
5:F5:19:ARG:NH1	5:F5:47:ASN:OD1	2.30	0.64
5:G5:102:MET:HG3	5:G5:130:VAL:HG21	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L5:4:THR:HG22	5:L5:6:ASN:HB2	1.78	0.64
6:A6:68:THR:HG21	6:A6:303:LYS:HB3	1.79	0.64
3:C3:106:GLN:HE22	5:C5:143:LEU:CA	2.09	0.64
5:E5:70:ASP:OD1	5:E5:190:GLN:NE2	2.30	0.64
6:E6:68:THR:HG21	6:E6:303:LYS:HB3	1.79	0.64
1:E1:110:THR:HG21	3:E3:74:VAL:HG21	1.79	0.64
5:H5:4:THR:HG22	5:H5:6:ASN:HB2	1.77	0.64
5:I5:70:ASP:OD1	5:I5:190:GLN:NE2	2.30	0.64
5:J5:116:ASP:O	5:L5:104:ARG:NH2	2.31	0.64
5:L5:19:ARG:NH1	5:L5:47:ASN:OD1	2.30	0.64
2:D2:8:TYR:CZ	3:E3:93:ILE:HD11	2.32	0.64
3:B3:106:GLN:NE2	5:A5:143:LEU:HA	2.07	0.64
5:C5:70:ASP:OD1	5:C5:190:GLN:NE2	2.29	0.64
5:K5:195:ASN:HB3	5:L5:207:LYS:NZ	2.12	0.64
6:C6:204:GLU:H	6:C6:204:GLU:CD	2.00	0.64
7:E7:81:ILE:HD11	7:E7:105:ILE:HD12	1.80	0.64
3:C3:233:PRO:HB2	4:B4:103:PHE:CD2	2.32	0.64
3:E3:106:GLN:NE2	5:G5:143:LEU:HA	2.07	0.64
3:F3:233:PRO:HB2	4:E4:103:PHE:CD2	2.32	0.64
5:B5:371:SER:OG	5:B5:375:ILE:O	2.15	0.64
5:F5:103:SER:H	5:F5:164:VAL:HG21	1.61	0.64
5:F5:116:ASP:O	5:H5:104:ARG:NH2	2.30	0.64
5:J5:19:ARG:NH1	5:J5:47:ASN:OD1	2.30	0.64
6:C6:37:LEU:HD21	6:C6:44:ARG:HG3	1.79	0.64
6:D6:37:LEU:HD21	6:D6:44:ARG:HG3	1.79	0.64
6:F6:204:GLU:H	6:F6:204:GLU:CD	2.00	0.64
2:F2:14:LYS:HE3	6:A6:357:ILE:HG21	1.80	0.64
4:F4:59:LYS:NZ	5:K5:66:ASN:OD1	2.30	0.64
5:B5:116:ASP:O	5:D5:104:ARG:NH2	2.30	0.64
5:I5:222:ASN:ND2	5:I5:227:PRO:O	2.30	0.64
5:L5:103:SER:H	5:L5:164:VAL:HG21	1.61	0.64
3:D3:233:PRO:HB2	4:C4:103:PHE:CD2	2.33	0.64
5:C5:259:GLY:HA3	5:C5:264:ILE:HD11	1.80	0.64
5:E5:259:GLY:HA3	5:E5:264:ILE:HD11	1.78	0.64
5:K5:162:ILE:HD11	6:A6:56:PHE:C	2.17	0.64
6:B6:68:THR:HG21	6:B6:303:LYS:HB3	1.79	0.64
6:C6:19:ILE:HD11	6:C6:47:ARG:HE	1.63	0.64
6:F6:37:LEU:HD21	6:F6:44:ARG:HG3	1.79	0.64
7:D7:81:ILE:HD11	7:D7:105:ILE:HD12	1.80	0.64
3:B3:98:PRO:HD3	4:A4:34:VAL:HG23	1.79	0.64
5:A5:45:ARG:HH22	5:B5:45:ARG:NE	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:211:ILE:HD11	5:A5:267:VAL:HG21	1.80	0.64
5:J5:108:LEU:H	5:J5:127:ASP:HA	1.61	0.64
2:C2:192:ARG:HG3	2:C2:196:PHE:HB2	1.80	0.64
2:D2:14:LYS:HE3	6:E6:357:ILE:HG21	1.80	0.64
5:G5:201:ILE:HD11	5:H5:272:ARG:NH2	2.12	0.64
7:F7:51:ILE:HG21	7:F7:69:GLU:HB3	1.79	0.64
7:F7:81:ILE:HD11	7:F7:105:ILE:HD12	1.80	0.64
1:D1:56:GLY:O	1:E1:116:GLN:NE2	2.30	0.64
2:B2:192:ARG:HG3	2:B2:196:PHE:HB2	1.80	0.64
2:F2:192:ARG:HG3	2:F2:196:PHE:HB2	1.80	0.64
5:K5:211:ILE:HD11	5:K5:267:VAL:HG21	1.80	0.64
6:B6:37:LEU:HD21	6:B6:44:ARG:HG3	1.79	0.64
6:D6:19:ILE:HD11	6:D6:47:ARG:HE	1.63	0.64
2:A2:192:ARG:HG3	2:A2:196:PHE:HB2	1.80	0.63
3:E3:7:MET:HB2	3:F3:136:PHE:CD1	2.32	0.63
5:C5:42:ASP:OD2	7:B7:21:TYR:OH	2.09	0.63
5:D5:116:ASP:O	5:F5:104:ARG:NH2	2.31	0.63
2:C2:197:ARG:HG2	2:C2:198:TYR:H	1.63	0.63
2:D2:58:ASP:OD1	2:D2:68:ARG:NE	2.31	0.63
4:E4:59:LYS:NZ	5:I5:66:ASN:OD1	2.29	0.63
4:F4:34:VAL:HG11	5:K5:62:TRP:HB2	1.79	0.63
5:B5:266:GLU:HG2	5:B5:270:LYS:HZ2	1.63	0.63
5:E5:222:ASN:ND2	5:E5:227:PRO:O	2.32	0.63
5:F5:3:LEU:O	5:F5:3:LEU:HD23	1.98	0.63
5:A5:346:TYR:HB3	5:A5:381:ARG:CZ	2.29	0.63
7:B7:51:ILE:HG21	7:B7:69:GLU:HB3	1.79	0.63
2:B2:58:ASP:OD1	2:B2:68:ARG:NE	2.31	0.63
2:D2:197:ARG:HG2	2:D2:198:TYR:H	1.63	0.63
3:D3:7:MET:HB2	3:E3:136:PHE:CD1	2.32	0.63
7:A7:51:ILE:HG21	7:A7:69:GLU:HB3	1.79	0.63
1:B1:50:ILE:O	3:C3:70:SER:OG	2.13	0.63
2:B2:8:TYR:CZ	3:C3:93:ILE:HD11	2.34	0.63
2:C2:17:TYR:CD1	6:D6:358:LYS:HG2	2.32	0.63
2:D2:17:TYR:CD1	6:E6:358:LYS:HG2	2.32	0.63
2:F2:197:ARG:HG2	2:F2:198:TYR:H	1.63	0.63
5:F5:130:VAL:HB	5:F5:135:ASN:HD22	1.64	0.63
5:H5:26:TYR:HE2	5:H5:45:ARG:HH12	1.46	0.63
5:I5:201:ILE:HD11	5:J5:272:ARG:NH2	2.12	0.63
5:K5:222:ASN:ND2	5:K5:227:PRO:O	2.32	0.63
6:D6:124:PHE:HB2	6:D6:136:VAL:HB	1.81	0.63
5:K5:259:GLY:HA3	5:K5:264:ILE:HD11	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C7:81:ILE:HD11	7:C7:105:ILE:HD12	1.80	0.63
2:A2:58:ASP:OD1	2:A2:68:ARG:NE	2.31	0.63
2:D2:192:ARG:HG3	2:D2:196:PHE:HB2	1.80	0.63
5:F5:371:SER:OG	5:F5:375:ILE:O	2.16	0.63
5:H5:42:ASP:OD1	5:H5:43:GLY:N	2.32	0.63
2:A2:71:ASN:ND2	5:C5:362:ASN:OD1	2.31	0.63
4:D4:59:LYS:HZ1	5:G5:72:ASN:HA	1.62	0.63
5:E5:108:LEU:HD23	5:E5:112:TYR:CZ	2.34	0.63
5:J5:93:ARG:NH2	5:J5:141:SER:O	2.31	0.63
6:B6:19:ILE:HD11	6:B6:47:ARG:HE	1.63	0.63
2:E2:192:ARG:HG3	2:E2:196:PHE:HB2	1.80	0.63
4:B4:53:PRO:O	4:B4:70:ARG:NH2	2.32	0.63
5:B5:108:LEU:H	5:B5:127:ASP:HA	1.62	0.63
5:I5:108:LEU:HD23	5:I5:112:TYR:CZ	2.34	0.63
6:E6:19:ILE:HD11	6:E6:47:ARG:HE	1.63	0.63
6:F6:19:ILE:HD11	6:F6:47:ARG:HE	1.63	0.63
7:A7:81:ILE:HD11	7:A7:105:ILE:HD12	1.80	0.63
7:D7:55:ASP:OD1	7:D7:59:ARG:NH1	2.28	0.63
1:B1:88:ASP:OD1	1:B1:110:THR:N	2.22	0.62
2:B2:197:ARG:HG2	2:B2:198:TYR:H	1.63	0.62
2:F2:58:ASP:OD1	2:F2:68:ARG:NE	2.31	0.62
4:C4:53:PRO:O	4:C4:70:ARG:NH2	2.32	0.62
5:A5:218:GLN:NE2	5:A5:235:ASN:HD21	1.97	0.62
5:G5:218:GLN:NE2	5:G5:235:ASN:HD21	1.97	0.62
5:I5:353:TYR:HD1	5:I5:368:LEU:HD13	1.64	0.62
5:J5:130:VAL:HB	5:J5:135:ASN:HD22	1.63	0.62
1:B1:110:THR:HG21	3:B3:74:VAL:HG21	1.82	0.62
2:A2:197:ARG:HG2	2:A2:198:TYR:H	1.63	0.62
2:E2:58:ASP:OD2	2:E2:68:ARG:NH1	2.31	0.62
3:B3:117:ASP:OD2	7:F7:1:MET:HG2	1.99	0.62
5:G5:211:ILE:HD11	5:G5:267:VAL:HG21	1.80	0.62
5:G5:346:TYR:HB3	5:G5:381:ARG:CZ	2.29	0.62
5:H5:266:GLU:HG2	5:H5:270:LYS:HZ2	1.63	0.62
6:A6:19:ILE:HD11	6:A6:47:ARG:HE	1.63	0.62
6:C6:491:ILE:HG12	7:B7:98:ILE:HG12	1.79	0.62
7:B7:81:ILE:HD11	7:B7:105:ILE:HD12	1.80	0.62
5:I5:80:ILE:O	5:I5:84:SER:N	2.19	0.62
5:L5:371:SER:OG	5:L5:375:ILE:O	2.16	0.62
2:B2:71:ASN:ND2	5:E5:362:ASN:OD1	2.33	0.62
2:E2:197:ARG:HG2	2:E2:198:TYR:H	1.63	0.62
2:F2:13:ILE:HG21	5:K5:38:GLN:HE21	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:58:ASN:HB2	3:B3:161:ARG:HD3	1.81	0.62
5:H5:371:SER:OG	5:H5:375:ILE:O	2.15	0.62
5:J5:371:SER:OG	5:J5:375:ILE:O	2.15	0.62
6:E6:37:LEU:HD21	6:E6:44:ARG:HG3	1.79	0.62
1:A1:20:PHE:HE2	1:A1:63:ILE:HG21	1.65	0.62
2:C2:58:ASP:OD1	2:C2:68:ARG:NE	2.31	0.62
2:E2:58:ASP:OD1	2:E2:68:ARG:NE	2.31	0.62
3:C3:141:ASN:ND2	7:A7:71:GLU:OE1	2.32	0.62
3:F3:103:GLN:HG3	5:I5:179:GLU:OE1	1.99	0.62
5:B5:237:ASP:O	5:B5:240:ASN:ND2	2.32	0.62
5:C5:49:GLU:OE2	5:D5:53:ARG:NH2	2.28	0.62
6:B6:312:MET:SD	6:B6:326:MET:HE1	2.40	0.62
6:C6:124:PHE:HB2	6:C6:136:VAL:HB	1.81	0.62
1:F1:88:ASP:OD1	1:F1:110:THR:N	2.22	0.62
2:C2:66:LEU:O	2:C2:121:TYR:OH	2.14	0.62
5:D5:6:ASN:OD1	5:D5:7:GLU:HG3	2.00	0.62
5:D5:93:ARG:NH2	5:D5:141:SER:O	2.31	0.62
6:D6:491:ILE:HG12	7:C7:98:ILE:HG12	1.81	0.62
7:B7:2:ARG:HB3	7:B7:21:TYR:HD2	1.64	0.62
2:A2:118:ASP:O	2:A2:122:ARG:HG3	2.00	0.62
3:A3:103:GLN:HG3	5:K5:179:GLU:OE1	2.00	0.62
4:E4:8:THR:O	4:E4:13:GLN:NE2	2.32	0.62
5:J5:312:LEU:O	5:J5:396:ASN:ND2	2.33	0.62
5:L5:130:VAL:HB	5:L5:135:ASN:HD22	1.64	0.62
6:F6:124:PHE:HB2	6:F6:136:VAL:HB	1.81	0.62
2:E2:30:ILE:HD11	5:I5:48:LEU:HD11	1.82	0.62
5:E5:353:TYR:HE1	5:E5:368:LEU:HB3	1.64	0.62
5:K5:70:ASP:OD1	5:K5:190:GLN:NE2	2.32	0.62
7:A7:84:THR:N	7:A7:101:SER:O	2.33	0.62
1:A1:88:ASP:OD1	1:A1:110:THR:N	2.22	0.62
1:D1:20:PHE:HE2	1:D1:63:ILE:HG21	1.65	0.62
2:B2:163:GLY:HA3	2:B2:167:THR:HB	1.82	0.62
2:F2:163:GLY:HA3	2:F2:167:THR:HB	1.82	0.62
5:C5:108:LEU:HD23	5:C5:112:TYR:CZ	2.34	0.62
5:D5:130:VAL:HB	5:D5:135:ASN:HD22	1.64	0.62
5:D5:312:LEU:O	5:D5:396:ASN:ND2	2.33	0.62
5:G5:45:ARG:CZ	5:H5:45:ARG:NH2	2.63	0.62
5:K5:108:LEU:HD23	5:K5:112:TYR:CZ	2.34	0.62
7:F7:84:THR:N	7:F7:101:SER:O	2.33	0.62
1:A1:66:GLN:OE1	1:F1:2:SER:N	2.32	0.62
2:B2:14:LYS:HE3	6:C6:357:ILE:HG21	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B2:15:GLN:NE2	7:B7:37:LYS:O	2.29	0.62
2:D2:46:ASN:O	2:D2:46:ASN:ND2	2.33	0.62
2:D2:71:ASN:ND2	5:I5:362:ASN:OD1	2.33	0.62
2:F2:118:ASP:O	2:F2:122:ARG:HG3	2.00	0.62
3:C3:117:ASP:OD2	7:A7:1:MET:HG2	1.99	0.62
3:E3:58:ASN:HB2	3:F3:161:ARG:HD3	1.82	0.62
4:D4:53:PRO:O	4:D4:70:ARG:NH2	2.32	0.62
5:B5:42:ASP:OD1	5:B5:43:GLY:N	2.33	0.62
5:D5:321:LYS:HG2	5:D5:321:LYS:O	1.99	0.62
5:E5:218:GLN:NE2	5:E5:235:ASN:HD21	1.98	0.62
5:K5:218:GLN:NE2	5:K5:235:ASN:HD21	1.98	0.62
6:A6:290:SER:HA	6:A6:369:ASN:HD21	1.65	0.62
6:E6:8:ILE:HD12	7:C7:53:TRP:CH2	2.35	0.62
6:F6:485:ALA:HB2	7:E7:60:LYS:HE3	1.82	0.62
7:E7:2:ARG:HB3	7:E7:21:TYR:HD2	1.64	0.62
7:F7:51:ILE:HD11	7:F7:53:TRP:CZ2	2.35	0.62
2:A2:8:TYR:CZ	3:B3:93:ILE:HD11	2.34	0.61
3:A3:214:PRO:HB2	3:A3:218:VAL:HG23	1.82	0.61
3:E3:214:PRO:HB2	3:E3:218:VAL:HG23	1.82	0.61
3:F3:214:PRO:HB2	3:F3:218:VAL:HG23	1.82	0.61
4:B4:34:VAL:HG11	5:C5:62:TRP:HB2	1.82	0.61
5:C5:13:ASN:HD22	5:C5:14:THR:N	1.98	0.61
5:E5:211:ILE:HD11	5:E5:267:VAL:HG21	1.81	0.61
5:I5:356:SER:OG	5:I5:365:VAL:HG11	1.99	0.61
5:J5:321:LYS:O	5:J5:321:LYS:HG2	1.99	0.61
6:A6:124:PHE:HB2	6:A6:136:VAL:HB	1.81	0.61
7:B7:84:THR:N	7:B7:101:SER:O	2.33	0.61
7:C7:51:ILE:HD11	7:C7:53:TRP:CZ2	2.35	0.61
2:C2:163:GLY:HA3	2:C2:167:THR:HB	1.82	0.61
2:D2:58:ASP:OD2	2:D2:68:ARG:NH1	2.31	0.61
3:D3:143:ALA:HB2	7:B7:67:LEU:HD12	1.82	0.61
4:E4:34:VAL:HG11	5:I5:62:TRP:HB2	1.81	0.61
5:C5:318:ALA:O	5:C5:402:VAL:N	2.33	0.61
5:G5:259:GLY:HA3	5:G5:264:ILE:HD11	1.82	0.61
6:E6:124:PHE:HB2	6:E6:136:VAL:HB	1.81	0.61
7:E7:51:ILE:HD11	7:E7:53:TRP:CZ2	2.35	0.61
1:C1:19:THR:HG21	6:C6:409:THR:OG1	2.00	0.61
4:B4:8:THR:O	4:B4:13:GLN:NE2	2.32	0.61
6:A6:75:ASN:OD1	6:A6:77:ILE:HG12	2.01	0.61
6:B6:75:ASN:OD1	6:B6:77:ILE:HG12	2.01	0.61
6:B6:124:PHE:HB2	6:B6:136:VAL:HB	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:290:SER:HA	6:B6:369:ASN:HD21	1.65	0.61
6:C6:290:SER:HA	6:C6:369:ASN:HD21	1.65	0.61
6:D6:312:MET:SD	6:D6:326:MET:HE1	2.40	0.61
6:F6:312:MET:SD	6:F6:326:MET:HE1	2.40	0.61
7:C7:2:ARG:HB3	7:C7:21:TYR:HD2	1.64	0.61
4:D4:38:LYS:HD3	5:G5:61:SER:OG	2.00	0.61
5:A5:259:GLY:HA3	5:A5:264:ILE:HD11	1.82	0.61
5:F5:312:LEU:O	5:F5:396:ASN:ND2	2.33	0.61
5:I5:211:ILE:HD11	5:I5:267:VAL:HG21	1.82	0.61
5:K5:272:ARG:NH2	5:K5:275:ASN:O	2.33	0.61
1:B1:20:PHE:HE2	1:B1:63:ILE:HG21	1.65	0.61
3:E3:103:GLN:HB2	5:G5:144:TRP:HB3	1.82	0.61
5:E5:49:GLU:OE2	5:F5:53:ARG:NH2	2.30	0.61
5:L5:312:LEU:O	5:L5:396:ASN:ND2	2.34	0.61
6:E6:290:SER:HA	6:E6:369:ASN:HD21	1.65	0.61
7:A7:2:ARG:HB3	7:A7:21:TYR:HD2	1.64	0.61
1:F1:20:PHE:HE2	1:F1:63:ILE:HG21	1.65	0.61
2:C2:46:ASN:O	2:C2:46:ASN:ND2	2.33	0.61
4:F4:53:PRO:O	4:F4:70:ARG:NH2	2.32	0.61
5:A5:272:ARG:NH2	5:A5:275:ASN:O	2.33	0.61
5:D5:41:PRO:HB2	7:B7:17:GLY:HA3	1.82	0.61
5:D5:320:GLN:HE22	5:D5:403:PRO:HA	1.66	0.61
5:E5:27:ARG:HG3	5:E5:27:ARG:HH11	1.66	0.61
5:I5:45:ARG:NH1	5:J5:45:ARG:NH2	2.49	0.61
5:J5:321:LYS:HZ2	5:K5:381:ARG:HH21	1.47	0.61
5:K5:353:TYR:HE1	5:K5:368:LEU:HB3	1.65	0.61
6:C6:104:SER:OG	6:C6:201:MET:HG2	2.01	0.61
6:C6:312:MET:SD	6:C6:326:MET:HE1	2.40	0.61
6:E6:312:MET:SD	6:E6:326:MET:HE1	2.40	0.61
6:F6:290:SER:HA	6:F6:369:ASN:HD21	1.65	0.61
7:B7:51:ILE:HD11	7:B7:53:TRP:CZ2	2.35	0.61
7:D7:2:ARG:HB3	7:D7:21:TYR:HD2	1.64	0.61
2:B2:118:ASP:O	2:B2:122:ARG:HG3	2.00	0.61
2:C2:118:ASP:O	2:C2:122:ARG:HG3	2.00	0.61
2:D2:118:ASP:O	2:D2:122:ARG:HG3	2.00	0.61
4:A4:8:THR:O	4:A4:13:GLN:NE2	2.32	0.61
4:C4:8:THR:O	4:C4:13:GLN:NE2	2.32	0.61
5:B5:6:ASN:OD1	5:B5:7:GLU:HG3	2.01	0.61
5:C5:211:ILE:HD11	5:C5:267:VAL:HG21	1.82	0.61
5:E5:80:ILE:O	5:E5:84:SER:N	2.19	0.61
5:F5:41:PRO:HB2	7:C7:17:GLY:HA3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C6:75:ASN:OD1	6:C6:77:ILE:HG12	2.01	0.61
6:F6:75:ASN:OD1	6:F6:77:ILE:HG12	2.01	0.61
2:E2:60:ILE:O	2:E2:63:ILE:HG22	2.01	0.61
2:F2:15:GLN:HE22	7:F7:38:SER:HA	1.66	0.61
2:F2:60:ILE:O	2:F2:63:ILE:HG22	2.01	0.61
3:C3:103:GLN:HG3	5:C5:179:GLU:OE1	2.01	0.61
5:F5:93:ARG:NH2	5:F5:141:SER:O	2.33	0.61
5:F5:329:THR:HB	5:F5:333:LYS:HE3	1.82	0.61
5:G5:346:TYR:CD2	5:G5:381:ARG:NH2	2.67	0.61
5:K5:39:GLU:CD	7:F7:34:THR:HG23	2.20	0.61
6:C6:296:LEU:HD23	6:C6:353:LEU:HD21	1.83	0.61
6:D6:290:SER:HA	6:D6:369:ASN:HD21	1.65	0.61
7:E7:84:THR:N	7:E7:101:SER:O	2.33	0.61
2:C2:8:TYR:CZ	3:D3:93:ILE:HD11	2.36	0.61
2:E2:118:ASP:O	2:E2:122:ARG:HG3	2.00	0.61
3:A3:115:ILE:HD11	4:F4:90:ARG:NE	2.15	0.61
3:B3:214:PRO:HB2	3:B3:218:VAL:HG23	1.82	0.61
3:E3:17:GLU:OE2	7:D7:59:ARG:NH2	2.33	0.61
5:I5:251:THR:HG22	5:I5:275:ASN:HB3	1.83	0.61
6:A6:485:ALA:HB2	7:F7:60:LYS:HE3	1.83	0.61
6:D6:104:SER:OG	6:D6:201:MET:HG2	2.01	0.61
7:F7:2:ARG:HB3	7:F7:21:TYR:HD2	1.64	0.61
1:A1:50:ILE:O	3:B3:70:SER:OG	2.11	0.61
1:C1:88:ASP:OD1	1:C1:110:THR:N	2.22	0.61
1:E1:20:PHE:HE2	1:E1:63:ILE:HG21	1.65	0.61
2:D2:163:GLY:HA3	2:D2:167:THR:HB	1.82	0.61
2:E2:15:GLN:HE22	7:E7:38:SER:HA	1.66	0.61
3:D3:103:GLN:HB3	5:E5:179:GLU:OE1	2.00	0.61
5:F5:93:ARG:HH22	5:F5:142:SER:HA	1.66	0.61
5:G5:80:ILE:O	5:G5:84:SER:N	2.18	0.61
5:G5:318:ALA:O	5:G5:402:VAL:N	2.34	0.61
5:H5:329:THR:HB	5:H5:333:LYS:HE3	1.82	0.61
7:A7:51:ILE:HD11	7:A7:53:TRP:CZ2	2.35	0.61
2:D2:15:GLN:HE21	7:D7:37:LYS:C	2.04	0.60
3:A3:113:SER:HA	3:A3:116:ARG:HH12	1.66	0.60
3:F3:113:SER:HA	3:F3:116:ARG:HH12	1.66	0.60
5:B5:329:THR:HB	5:B5:333:LYS:HE3	1.83	0.60
5:D5:237:ASP:O	5:D5:240:ASN:ND2	2.34	0.60
5:H5:2:SER:OG	5:H5:13:ASN:ND2	2.35	0.60
5:L5:329:THR:HB	5:L5:333:LYS:HE3	1.83	0.60
6:D6:75:ASN:OD1	6:D6:77:ILE:HG12	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F6:104:SER:OG	6:F6:201:MET:HG2	2.01	0.60
7:D7:51:ILE:HD11	7:D7:53:TRP:CZ2	2.35	0.60
2:C2:58:ASP:OD2	2:C2:68:ARG:NH1	2.31	0.60
2:C2:109:LYS:NZ	2:C2:110:VAL:O	2.34	0.60
2:E2:163:GLY:HA3	2:E2:167:THR:HB	1.82	0.60
3:B3:103:GLN:HB2	5:A5:144:TRP:HB3	1.82	0.60
5:C5:252:MET:H	5:C5:272:ARG:HH21	1.49	0.60
5:E5:162:ILE:HD11	6:D6:56:PHE:O	2.01	0.60
5:K5:257:GLU:HA	5:K5:306:ARG:HH11	1.66	0.60
5:L5:93:ARG:HH22	5:L5:142:SER:HA	1.66	0.60
6:E6:104:SER:OG	6:E6:201:MET:HG2	2.01	0.60
3:D3:214:PRO:HB2	3:D3:218:VAL:HG23	1.82	0.60
5:H5:312:LEU:O	5:H5:396:ASN:ND2	2.34	0.60
5:I5:13:ASN:HD22	5:I5:14:THR:N	1.98	0.60
5:K5:27:ARG:HH11	5:K5:27:ARG:HG3	1.66	0.60
2:B2:60:ILE:O	2:B2:63:ILE:HG22	2.01	0.60
5:B5:41:PRO:HB2	7:A7:17:GLY:HA3	1.82	0.60
5:G5:272:ARG:NH2	5:G5:275:ASN:O	2.34	0.60
5:J5:41:PRO:HB2	7:E7:17:GLY:HA3	1.84	0.60
6:B6:296:LEU:HD23	6:B6:353:LEU:HD21	1.83	0.60
6:D6:296:LEU:HD23	6:D6:353:LEU:HD21	1.83	0.60
6:E6:312:MET:O	6:E6:314:THR:N	2.34	0.60
7:C7:84:THR:N	7:C7:101:SER:O	2.33	0.60
2:A2:163:GLY:HA3	2:A2:167:THR:HB	1.82	0.60
2:F2:62:ARG:HH21	5:L5:68:ASP:CG	2.05	0.60
3:A3:103:GLN:HB3	5:K5:179:GLU:OE2	2.01	0.60
4:D4:8:THR:O	4:D4:13:GLN:NE2	2.32	0.60
5:A5:26:TYR:OH	5:A5:45:ARG:NH2	2.30	0.60
5:B5:68:ASP:H	5:B5:72:ASN:HD21	1.48	0.60
5:F5:320:GLN:HE22	5:F5:403:PRO:HA	1.66	0.60
5:H5:68:ASP:H	5:H5:72:ASN:HD21	1.48	0.60
6:A6:104:SER:OG	6:A6:201:MET:HG2	2.01	0.60
6:D6:312:MET:O	6:D6:314:THR:N	2.34	0.60
2:C2:30:ILE:HD11	5:E5:48:LEU:HD11	1.84	0.60
2:F2:11:TYR:O	5:K5:44:GLN:NE2	2.31	0.60
2:F2:15:GLN:NE2	7:F7:37:LYS:O	2.30	0.60
2:F2:58:ASP:OD2	2:F2:68:ARG:NH1	2.31	0.60
5:A5:70:ASP:OD1	5:A5:189:ARG:NH2	2.34	0.60
5:C5:102:MET:HG3	5:C5:130:VAL:HG21	1.83	0.60
5:C5:273:LEU:O	5:C5:273:LEU:HD23	2.01	0.60
5:D5:93:ARG:HH22	5:D5:142:SER:HA	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J5:93:ARG:HH22	5:J5:142:SER:HA	1.67	0.60
5:K5:318:ALA:O	5:K5:402:VAL:N	2.33	0.60
2:A2:109:LYS:NZ	2:A2:110:VAL:O	2.34	0.60
2:E2:71:ASN:ND2	5:K5:362:ASN:OD1	2.34	0.60
3:C3:214:PRO:HB2	3:C3:218:VAL:HG23	1.82	0.60
4:D4:4:ILE:HD12	4:D4:101:LEU:CD2	2.32	0.60
4:F4:4:ILE:HD12	4:F4:101:LEU:CD2	2.32	0.60
5:H5:6:ASN:OD1	5:H5:7:GLU:HG3	2.01	0.60
5:H5:321:LYS:HE2	5:I5:381:ARG:NE	2.17	0.60
5:J5:6:ASN:OD1	5:J5:7:GLU:HG3	2.00	0.60
6:E6:75:ASN:OD1	6:E6:77:ILE:HG12	2.01	0.60
1:C1:20:PHE:HE2	1:C1:63:ILE:HG21	1.65	0.60
2:D2:60:ILE:O	2:D2:63:ILE:HG22	2.01	0.60
2:E2:62:ARG:HH21	5:J5:68:ASP:CG	2.05	0.60
3:C3:113:SER:HA	3:C3:116:ARG:HH12	1.66	0.60
3:D3:106:GLN:NE2	5:E5:143:LEU:HA	2.15	0.60
3:D3:248:VAL:HG13	4:C4:111:GLN:HG2	1.84	0.60
4:E4:53:PRO:O	4:E4:70:ARG:NH2	2.32	0.60
5:A5:13:ASN:HD22	5:A5:14:THR:N	1.99	0.60
6:A6:495:VAL:HB	6:B6:12:LEU:HD12	1.84	0.60
6:D6:89:ARG:HB2	6:D6:222:THR:HG22	1.83	0.60
2:A2:60:ILE:O	2:A2:63:ILE:HG22	2.01	0.60
2:E2:14:LYS:HE3	6:F6:357:ILE:HG21	1.84	0.60
6:B6:495:VAL:HB	6:C6:12:LEU:HD12	1.84	0.60
6:F6:126:ILE:HG21	6:F6:158:ILE:HG23	1.84	0.60
2:B2:109:LYS:NZ	2:B2:110:VAL:O	2.34	0.60
3:E3:113:SER:HA	3:E3:116:ARG:HH12	1.66	0.60
5:E5:318:ALA:O	5:E5:402:VAL:N	2.35	0.60
5:F5:320:GLN:NE2	5:F5:403:PRO:HA	2.17	0.60
6:A6:8:ILE:HD12	7:E7:53:TRP:CH2	2.37	0.60
6:B6:104:SER:OG	6:B6:201:MET:HG2	2.01	0.60
6:D6:267:VAL:HG13	6:D6:305:ALA:HB2	1.84	0.60
6:F6:296:LEU:HD23	6:F6:353:LEU:HD21	1.83	0.60
2:F2:30:ILE:HD11	5:K5:48:LEU:HD11	1.84	0.59
4:B4:4:ILE:HD12	4:B4:101:LEU:CD2	2.32	0.59
6:A6:312:MET:O	6:A6:314:THR:N	2.34	0.59
6:B6:312:MET:O	6:B6:314:THR:N	2.34	0.59
6:E6:89:ARG:HB2	6:E6:222:THR:HG22	1.83	0.59
2:B2:66:LEU:O	2:B2:121:TYR:OH	2.14	0.59
5:D5:329:THR:HB	5:D5:333:LYS:HE3	1.83	0.59
5:G5:45:ARG:NH2	5:H5:45:ARG:NE	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A6:126:ILE:HG21	6:A6:158:ILE:HG23	1.84	0.59
6:A6:312:MET:SD	6:A6:326:MET:HE1	2.42	0.59
6:E6:485:ALA:HB2	7:D7:60:LYS:HE3	1.83	0.59
2:A2:58:ASP:OD2	2:A2:68:ARG:NH1	2.31	0.59
2:B2:11:TYR:O	5:C5:44:GLN:NE2	2.31	0.59
2:C2:60:ILE:O	2:C2:63:ILE:HG22	2.01	0.59
3:B3:113:SER:HA	3:B3:116:ARG:HH12	1.66	0.59
3:C3:7:MET:HB2	3:D3:136:PHE:CD1	2.38	0.59
3:E3:117:ASP:OD2	7:C7:1:MET:N	2.32	0.59
5:I5:252:MET:H	5:I5:272:ARG:HH21	1.50	0.59
5:I5:259:GLY:HA3	5:I5:264:ILE:HD11	1.84	0.59
5:J5:320:GLN:HE22	5:J5:403:PRO:HA	1.66	0.59
5:K5:252:MET:H	5:K5:272:ARG:HH21	1.50	0.59
6:A6:116:LEU:HD13	6:A6:150:VAL:HG11	1.84	0.59
6:A6:424:ASN:O	6:A6:424:ASN:ND2	2.35	0.59
6:C6:343:ILE:HG13	6:C6:353:LEU:HD13	1.85	0.59
6:E6:116:LEU:HD13	6:E6:150:VAL:HG11	1.84	0.59
6:E6:126:ILE:HG21	6:E6:158:ILE:HG23	1.84	0.59
6:E6:267:VAL:HG13	6:E6:305:ALA:HB2	1.85	0.59
6:F6:89:ARG:HB2	6:F6:222:THR:HG22	1.83	0.59
6:F6:116:LEU:HD13	6:F6:150:VAL:HG11	1.84	0.59
2:A2:14:LYS:HE3	6:B6:357:ILE:HG21	1.84	0.59
2:D2:62:ARG:HH21	5:H5:68:ASP:CG	2.06	0.59
2:F2:46:ASN:O	2:F2:46:ASN:ND2	2.33	0.59
4:F4:8:THR:O	4:F4:13:GLN:NE2	2.32	0.59
5:B5:130:VAL:HB	5:B5:135:ASN:HD22	1.67	0.59
5:B5:312:LEU:O	5:B5:396:ASN:ND2	2.35	0.59
5:C5:251:THR:HG22	5:C5:275:ASN:HB3	1.83	0.59
5:E5:45:ARG:CZ	5:F5:45:ARG:NH2	2.65	0.59
6:D6:424:ASN:O	6:D6:424:ASN:ND2	2.35	0.59
6:E6:343:ILE:HG13	6:E6:353:LEU:HD13	1.85	0.59
2:B2:46:ASN:ND2	2:B2:46:ASN:O	2.33	0.59
3:E3:215:SER:HB3	7:D7:47:MET:HE1	1.84	0.59
4:C4:4:ILE:HD12	4:C4:101:LEU:CD2	2.32	0.59
4:C4:93:ASP:OD1	4:C4:98:ARG:HB3	2.02	0.59
5:F5:74:GLY:O	5:F5:77:GLN:HB3	2.03	0.59
5:G5:70:ASP:OD1	5:G5:189:ARG:NH2	2.36	0.59
5:H5:131:LEU:HG	5:H5:132:ILE:H	1.67	0.59
5:K5:162:ILE:HD11	6:A6:56:PHE:O	2.02	0.59
6:A6:267:VAL:HG13	6:A6:305:ALA:HB2	1.84	0.59
6:C6:89:ARG:HB2	6:C6:222:THR:HG22	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:116:LEU:HD13	6:D6:150:VAL:HG11	1.84	0.59
2:A2:26:ALA:O	2:A2:30:ILE:HG12	2.02	0.59
2:A2:66:LEU:O	2:A2:121:TYR:OH	2.14	0.59
2:B2:2:SER:OG	2:B2:3:ASP:N	2.36	0.59
2:D2:2:SER:OG	2:D2:3:ASP:N	2.36	0.59
2:E2:2:SER:OG	2:E2:3:ASP:N	2.36	0.59
3:B3:59:GLU:OE1	3:B3:60:PRO:HD2	2.03	0.59
3:D3:58:ASN:HB2	3:E3:161:ARG:HD3	1.84	0.59
3:D3:113:SER:HA	3:D3:116:ARG:HH12	1.66	0.59
4:A4:4:ILE:HD12	4:A4:101:LEU:CD2	2.32	0.59
4:E4:4:ILE:HD12	4:E4:101:LEU:CD2	2.32	0.59
4:F4:93:ASP:OD1	4:F4:98:ARG:HB3	2.02	0.59
5:B5:74:GLY:O	5:B5:77:GLN:HB3	2.03	0.59
5:J5:329:THR:HB	5:J5:333:LYS:HE3	1.83	0.59
6:A6:89:ARG:HB2	6:A6:222:THR:HG22	1.83	0.59
6:B6:89:ARG:HB2	6:B6:222:THR:HG22	1.83	0.59
1:A1:56:GLY:O	1:B1:116:GLN:NE2	2.35	0.59
2:C2:26:ALA:O	2:C2:30:ILE:HG12	2.03	0.59
2:D2:30:ILE:HD11	5:G5:48:LEU:HD11	1.85	0.59
2:F2:109:LYS:NZ	2:F2:110:VAL:O	2.34	0.59
5:G5:332:ILE:HD13	5:G5:399:ILE:HD12	1.85	0.59
5:H5:130:VAL:HB	5:H5:135:ASN:HD22	1.68	0.59
5:I5:318:ALA:O	5:I5:402:VAL:N	2.33	0.59
5:L5:74:GLY:O	5:L5:77:GLN:HB3	2.03	0.59
6:A6:12:LEU:HD12	6:F6:495:VAL:HB	1.84	0.59
6:C6:267:VAL:HG13	6:C6:305:ALA:HB2	1.85	0.59
6:F6:267:VAL:HG13	6:F6:305:ALA:HB2	1.84	0.59
6:F6:343:ILE:HG13	6:F6:353:LEU:HD13	1.84	0.59
1:E1:25:GLN:NE2	1:F1:124:GLN:OE1	2.36	0.59
2:A2:30:ILE:HD11	5:A5:48:LEU:HD11	1.84	0.59
3:B3:58:ASN:HB2	3:C3:161:ARG:HD3	1.85	0.59
3:F3:106:GLN:HE22	5:I5:143:LEU:CA	2.14	0.59
5:C5:363:TYR:OH	5:C5:365:VAL:HG12	2.03	0.59
5:E5:221:ASP:CB	5:E5:252:MET:HG2	2.32	0.59
5:I5:102:MET:HG3	5:I5:130:VAL:HG21	1.83	0.59
6:B6:267:VAL:HG13	6:B6:305:ALA:HB2	1.84	0.59
6:D6:343:ILE:HG13	6:D6:353:LEU:HD13	1.85	0.59
2:D2:109:LYS:NZ	2:D2:110:VAL:O	2.34	0.59
3:A3:211:VAL:HG21	3:A3:222:VAL:HG21	1.85	0.59
3:B3:103:GLN:HB3	5:A5:179:GLU:OE1	2.03	0.59
3:C3:59:GLU:OE1	3:C3:60:PRO:HD2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G5:337:SER:HA	5:G5:392:ILE:HB	1.85	0.59
5:H5:237:ASP:O	5:H5:240:ASN:ND2	2.32	0.59
6:B6:126:ILE:HG21	6:B6:158:ILE:HG23	1.84	0.59
6:E6:495:VAL:HB	6:F6:12:LEU:HD12	1.84	0.59
2:C2:2:SER:OG	2:C2:3:ASP:N	2.36	0.59
3:C3:231:GLN:O	3:C3:233:PRO:HD3	2.03	0.59
4:B4:93:ASP:OD1	4:B4:98:ARG:HB3	2.02	0.59
5:A5:38:GLN:HG3	7:A7:43:ASN:HD22	1.67	0.59
5:B5:131:LEU:HG	5:B5:132:ILE:H	1.67	0.59
5:D5:219:VAL:H	5:D5:234:SER:HB3	1.67	0.59
5:E5:251:THR:HG22	5:E5:275:ASN:HB3	1.84	0.59
5:H5:74:GLY:O	5:H5:77:GLN:HB3	2.03	0.59
5:I5:70:ASP:OD1	5:I5:189:ARG:NH2	2.36	0.59
5:J5:237:ASP:O	5:J5:240:ASN:ND2	2.35	0.59
6:A6:296:LEU:HD23	6:A6:353:LEU:HD21	1.83	0.59
6:B6:116:LEU:HD13	6:B6:150:VAL:HG11	1.84	0.59
6:B6:424:ASN:ND2	6:B6:424:ASN:O	2.35	0.59
6:D6:126:ILE:HG21	6:D6:158:ILE:HG23	1.84	0.59
6:E6:296:LEU:HD23	6:E6:353:LEU:HD21	1.83	0.59
1:F1:110:THR:HG21	3:F3:74:VAL:HG21	1.85	0.58
3:A3:106:GLN:HE22	5:K5:143:LEU:CA	2.16	0.58
4:A4:93:ASP:OD1	4:A4:98:ARG:HB3	2.02	0.58
4:E4:93:ASP:OD1	4:E4:98:ARG:HB3	2.02	0.58
5:C5:316:LEU:HD21	5:C5:368:LEU:HD12	1.85	0.58
6:B6:343:ILE:HG13	6:B6:353:LEU:HD13	1.85	0.58
6:D6:495:VAL:HB	6:E6:12:LEU:HD12	1.84	0.58
6:F6:312:MET:O	6:F6:314:THR:N	2.34	0.58
2:D2:26:ALA:O	2:D2:30:ILE:HG12	2.02	0.58
2:D2:66:LEU:O	2:D2:121:TYR:OH	2.14	0.58
2:E2:11:TYR:O	5:I5:44:GLN:NE2	2.32	0.58
3:C3:103:GLN:HB3	5:C5:179:GLU:OE2	2.02	0.58
3:C3:143:ALA:HB2	7:A7:67:LEU:HD12	1.84	0.58
3:F3:103:GLN:HB3	5:I5:179:GLU:OE2	2.03	0.58
5:G5:45:ARG:HH22	5:H5:45:ARG:NE	2.00	0.58
5:L5:131:LEU:HG	5:L5:132:ILE:H	1.67	0.58
6:C6:116:LEU:HD13	6:C6:150:VAL:HG11	1.84	0.58
6:D6:8:ILE:HD12	7:B7:53:TRP:CH2	2.38	0.58
1:A1:116:GLN:NE2	1:F1:56:GLY:O	2.33	0.58
2:B2:15:GLN:HE22	7:B7:38:SER:HA	1.67	0.58
2:B2:26:ALA:O	2:B2:30:ILE:HG12	2.03	0.58
2:F2:2:SER:OG	2:F2:3:ASP:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D4:93:ASP:OD1	4:D4:98:ARG:HB3	2.02	0.58
5:D5:68:ASP:H	5:D5:72:ASN:HD21	1.50	0.58
5:E5:337:SER:HA	5:E5:392:ILE:HB	1.85	0.58
5:G5:346:TYR:HB3	5:G5:381:ARG:NH2	2.18	0.58
5:L5:41:PRO:HB2	7:F7:17:GLY:HA3	1.85	0.58
6:C6:126:ILE:HG21	6:C6:158:ILE:HG23	1.84	0.58
6:E6:144:VAL:HG13	6:E6:149:GLU:HB3	1.85	0.58
1:C1:40:ARG:NH1	1:D1:135:GLU:O	2.36	0.58
2:B2:30:ILE:HD11	5:C5:48:LEU:HD11	1.85	0.58
2:F2:71:ASN:ND2	5:A5:362:ASN:OD1	2.34	0.58
2:F2:188:ASP:OD2	2:F2:192:ARG:NH2	2.37	0.58
3:D3:211:VAL:HG21	3:D3:222:VAL:HG21	1.85	0.58
3:E3:211:VAL:HG21	3:E3:222:VAL:HG21	1.85	0.58
4:A4:31:GLU:OE1	5:A5:58:SER:OG	2.12	0.58
5:A5:27:ARG:HH11	5:A5:27:ARG:HG3	1.68	0.58
5:A5:162:ILE:HD11	6:B6:56:PHE:O	2.03	0.58
5:J5:364:ASN:OD1	5:K5:381:ARG:HD3	2.03	0.58
6:A6:202:ASN:O	6:A6:205:SER:OG	2.19	0.58
6:B6:8:ILE:HD12	7:F7:53:TRP:CH2	2.38	0.58
6:C6:424:ASN:O	6:C6:424:ASN:ND2	2.35	0.58
6:F6:144:VAL:HG13	6:F6:149:GLU:HB3	1.85	0.58
1:F1:50:ILE:O	3:A3:70:SER:OG	2.15	0.58
2:B2:62:ARG:HH21	5:D5:68:ASP:CG	2.06	0.58
3:B3:211:VAL:HG21	3:B3:222:VAL:HG21	1.85	0.58
3:F3:141:ASN:HD21	3:F3:144:LYS:HD2	1.69	0.58
5:A5:318:ALA:O	5:A5:402:VAL:N	2.34	0.58
5:C5:45:ARG:NH1	5:D5:45:ARG:NH2	2.50	0.58
5:D5:74:GLY:O	5:D5:77:GLN:HB3	2.04	0.58
5:D5:191:ARG:NH2	5:D5:235:ASN:HB3	2.18	0.58
5:I5:221:ASP:CB	5:I5:252:MET:HG2	2.33	0.58
5:J5:320:GLN:NE2	5:J5:403:PRO:HA	2.19	0.58
2:F2:26:ALA:O	2:F2:30:ILE:HG12	2.02	0.58
3:C3:103:GLN:HB2	5:C5:144:TRP:HB3	1.83	0.58
3:D3:103:GLN:HG3	5:E5:179:GLU:OE2	2.03	0.58
3:E3:231:GLN:O	3:E3:233:PRO:HD3	2.03	0.58
4:C4:31:GLU:OE1	5:E5:58:SER:OG	2.10	0.58
5:F5:131:LEU:HG	5:F5:132:ILE:H	1.67	0.58
5:J5:131:LEU:HG	5:J5:132:ILE:H	1.68	0.58
6:C6:312:MET:O	6:C6:314:THR:N	2.34	0.58
6:E6:424:ASN:O	6:E6:424:ASN:ND2	2.35	0.58
2:B2:58:ASP:OD2	2:B2:68:ARG:NH1	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:59:GLU:OE1	3:A3:60:PRO:HD2	2.03	0.58
3:B3:106:GLN:HE22	5:A5:143:LEU:CA	2.09	0.58
3:C3:240:GLU:HG3	4:B4:2:ASN:OD1	2.04	0.58
3:F3:211:VAL:HG21	3:F3:222:VAL:HG21	1.85	0.58
4:F4:3:LEU:HD11	4:F4:100:GLN:HB2	1.86	0.58
6:B6:144:VAL:HG13	6:B6:149:GLU:HB3	1.85	0.58
1:B1:42:ASN:O	3:D3:187:ASN:ND2	2.29	0.58
3:E3:141:ASN:HD21	3:E3:144:LYS:HD2	1.69	0.58
4:A4:53:PRO:O	4:A4:70:ARG:NH2	2.32	0.58
4:D4:3:LEU:HD11	4:D4:100:GLN:HB2	1.86	0.58
5:D5:364:ASN:OD1	5:E5:381:ARG:HD3	2.04	0.58
5:K5:80:ILE:O	5:K5:84:SER:N	2.19	0.58
1:B1:19:THR:HG21	6:B6:409:THR:OG1	2.04	0.58
3:A3:161:ARG:HD3	3:F3:58:ASN:HB2	1.85	0.58
3:F3:231:GLN:O	3:F3:233:PRO:HD3	2.03	0.58
4:E4:4:ILE:HD11	4:E4:103:PHE:HB2	1.86	0.58
5:A5:346:TYR:HB3	5:A5:381:ARG:NH2	2.19	0.58
5:J5:381:ARG:HH11	5:K5:321:LYS:HE3	1.68	0.58
5:K5:70:ASP:OD1	5:K5:189:ARG:NH2	2.37	0.58
5:K5:251:THR:HG22	5:K5:275:ASN:HB3	1.84	0.58
6:A6:343:ILE:HG13	6:A6:353:LEU:HD13	1.85	0.58
6:E6:4:ILE:HD11	7:C7:39:TRP:NE1	2.19	0.58
6:F6:424:ASN:O	6:F6:424:ASN:ND2	2.35	0.58
7:D7:84:THR:N	7:D7:101:SER:O	2.33	0.58
1:B1:56:GLY:O	1:C1:116:GLN:NE2	2.34	0.58
4:B4:4:ILE:HD11	4:B4:103:PHE:HB2	1.86	0.58
5:A5:4:THR:OG1	5:A5:6:ASN:OD1	2.21	0.58
6:C6:8:ILE:HD12	7:A7:53:TRP:CH2	2.39	0.58
2:A2:188:ASP:OD2	2:A2:192:ARG:NH2	2.37	0.57
2:C2:72:ASP:OD1	2:C2:73:VAL:N	2.37	0.57
3:A3:231:GLN:O	3:A3:233:PRO:HD3	2.03	0.57
3:B3:141:ASN:HD21	3:B3:144:LYS:HD2	1.69	0.57
3:B3:231:GLN:O	3:B3:233:PRO:HD3	2.03	0.57
3:D3:231:GLN:O	3:D3:233:PRO:HD3	2.03	0.57
3:E3:103:GLN:HB3	5:G5:179:GLU:OE2	2.03	0.57
4:A4:38:LYS:HD3	5:A5:61:SER:OG	2.04	0.57
5:A5:337:SER:HA	5:A5:392:ILE:HB	1.85	0.57
5:F5:191:ARG:NH2	5:F5:235:ASN:HB3	2.19	0.57
5:G5:252:MET:H	5:G5:272:ARG:HH21	1.50	0.57
5:I5:337:SER:HA	5:I5:392:ILE:HB	1.86	0.57
5:K5:337:SER:HA	5:K5:392:ILE:HB	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:144:VAL:HG13	6:D6:149:GLU:HB3	1.85	0.57
6:F6:4:ILE:HD11	7:D7:39:TRP:NE1	2.19	0.57
2:A2:62:ARG:HH21	5:B5:68:ASP:CG	2.07	0.57
2:D2:188:ASP:OD2	2:D2:192:ARG:NH2	2.37	0.57
2:E2:26:ALA:O	2:E2:30:ILE:HG12	2.03	0.57
2:E2:109:LYS:NZ	2:E2:110:VAL:O	2.34	0.57
3:E3:59:GLU:OE1	3:E3:60:PRO:HD2	2.03	0.57
3:E3:143:ALA:HB2	7:C7:67:LEU:HD12	1.85	0.57
5:E5:18:LEU:HD11	5:E5:53:ARG:HD3	1.85	0.57
5:E5:178:GLU:OE1	5:E5:178:GLU:N	2.32	0.57
5:J5:191:ARG:NH2	5:J5:235:ASN:HB3	2.18	0.57
5:L5:78:GLN:NE2	5:L5:88:LEU:HD23	2.20	0.57
2:B2:188:ASP:OD2	2:B2:192:ARG:NH2	2.37	0.57
3:A3:144:LYS:O	3:A3:149:LYS:NZ	2.33	0.57
3:B3:143:ALA:HB2	7:F7:67:LEU:HD12	1.85	0.57
3:B3:233:PRO:HB2	4:A4:103:PHE:CD2	2.40	0.57
3:D3:87:PHE:HD2	7:C7:41:ASN:ND2	1.94	0.57
4:C4:3:LEU:HD11	4:C4:100:GLN:HB2	1.86	0.57
5:C5:70:ASP:OD1	5:C5:189:ARG:NH2	2.37	0.57
5:D5:131:LEU:HG	5:D5:132:ILE:H	1.68	0.57
5:D5:247:ILE:HG13	5:D5:277:LYS:HD2	1.86	0.57
5:E5:208:LEU:HD23	5:E5:217:LEU:HD22	1.87	0.57
5:G5:76:MET:HE1	5:G5:182:PRO:HA	1.86	0.57
6:C6:396:THR:HG21	6:C6:400:ILE:HD11	1.87	0.57
3:D3:59:GLU:OE1	3:D3:60:PRO:HD2	2.03	0.57
3:E3:117:ASP:OD2	7:C7:1:MET:HG2	2.03	0.57
4:D4:4:ILE:HD11	4:D4:103:PHE:HB2	1.86	0.57
4:D4:55:ILE:HD13	4:D4:70:ARG:HG3	1.87	0.57
4:E4:31:GLU:OE1	5:I5:58:SER:OG	2.11	0.57
5:C5:149:GLY:HA3	5:C5:173:ALA:HB3	1.87	0.57
5:E5:252:MET:H	5:E5:272:ARG:HH21	1.50	0.57
5:G5:251:THR:HG22	5:G5:275:ASN:HB3	1.85	0.57
5:J5:247:ILE:HG13	5:J5:277:LYS:HD2	1.86	0.57
6:C6:495:VAL:HB	6:D6:12:LEU:HD12	1.84	0.57
6:D6:202:ASN:O	6:D6:205:SER:OG	2.19	0.57
2:A2:46:ASN:O	2:A2:46:ASN:ND2	2.33	0.57
3:D3:106:GLN:HE22	5:E5:143:LEU:CA	2.14	0.57
3:D3:141:ASN:HD21	3:D3:144:LYS:HD2	1.69	0.57
3:E3:169:ASN:HD21	3:F3:185:ARG:HD2	1.68	0.57
3:F3:59:GLU:OE1	3:F3:60:PRO:HD2	2.03	0.57
4:B4:31:GLU:OE1	5:C5:58:SER:OG	2.10	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G5:27:ARG:HH11	5:G5:27:ARG:HG3	1.68	0.57
5:G5:162:ILE:HD11	6:E6:56:PHE:O	2.05	0.57
5:I5:149:GLY:HA3	5:I5:173:ALA:HB3	1.85	0.57
5:I5:372:LEU:HD23	5:I5:382:VAL:HG22	1.86	0.57
5:K5:153:SER:OG	5:K5:154:SER:N	2.38	0.57
2:F2:134:CYS:SG	2:F2:135:SER:N	2.78	0.57
3:C3:211:VAL:HG21	3:C3:222:VAL:HG21	1.85	0.57
4:B4:41:VAL:H	4:B4:55:ILE:HG22	1.70	0.57
5:B5:101:ASN:HB2	5:B5:132:ILE:O	2.04	0.57
5:C5:19:ARG:NH1	5:C5:23:GLU:OE1	2.37	0.57
4:E4:55:ILE:HD13	4:E4:70:ARG:HG3	1.87	0.57
4:F4:55:ILE:HD13	4:F4:70:ARG:HG3	1.87	0.57
5:C5:153:SER:OG	5:C5:154:SER:N	2.38	0.57
5:C5:221:ASP:CB	5:C5:252:MET:HG2	2.32	0.57
5:E5:153:SER:OG	5:E5:154:SER:N	2.38	0.57
5:G5:208:LEU:HD23	5:G5:217:LEU:HD22	1.87	0.57
5:I5:153:SER:OG	5:I5:154:SER:N	2.38	0.57
5:L5:329:THR:O	5:L5:333:LYS:HG2	2.05	0.57
6:B6:485:ALA:HB3	7:A7:94:ARG:NH1	2.20	0.57
6:C6:144:VAL:HG13	6:C6:149:GLU:HB3	1.85	0.57
3:A3:141:ASN:HD21	3:A3:144:LYS:HD2	1.69	0.57
4:E4:3:LEU:HD11	4:E4:100:GLN:HB2	1.86	0.57
4:F4:4:ILE:HD11	4:F4:103:PHE:HB2	1.86	0.57
5:A5:80:ILE:O	5:A5:84:SER:N	2.19	0.57
5:A5:251:THR:HG22	5:A5:275:ASN:HB3	1.85	0.57
5:D5:96:TRP:HZ3	5:D5:173:ALA:HB2	1.69	0.57
5:H5:391:SER:OG	5:H5:392:ILE:N	2.38	0.57
5:J5:14:THR:HG22	5:J5:17:GLU:HG3	1.87	0.57
6:B6:485:ALA:HB2	7:A7:60:LYS:HE3	1.85	0.57
2:A2:2:SER:OG	2:A2:3:ASP:N	2.36	0.57
4:C4:55:ILE:HD13	4:C4:70:ARG:HG3	1.87	0.57
4:F4:41:VAL:H	4:F4:55:ILE:HG22	1.70	0.57
5:A5:208:LEU:HD23	5:A5:217:LEU:HD22	1.87	0.57
5:B5:42:ASP:O	5:B5:46:ILE:HG13	2.05	0.57
5:D5:102:MET:HE1	5:D5:164:VAL:H	1.70	0.57
5:G5:49:GLU:OE2	5:H5:53:ARG:NH2	2.27	0.57
5:J5:74:GLY:O	5:J5:77:GLN:HB3	2.04	0.57
5:J5:329:THR:O	5:J5:333:LYS:HG2	2.05	0.57
5:K5:208:LEU:HD23	5:K5:217:LEU:HD22	1.87	0.57
6:A6:144:VAL:HG13	6:A6:149:GLU:HB3	1.85	0.57
6:B6:343:ILE:HD11	6:B6:364:LEU:HD12	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:396:THR:HG21	6:B6:400:ILE:HD11	1.87	0.57
6:F6:396:THR:HG21	6:F6:400:ILE:HD11	1.86	0.57
2:A2:134:CYS:SG	2:A2:135:SER:N	2.78	0.57
2:C2:134:CYS:SG	2:C2:135:SER:N	2.78	0.57
2:E2:72:ASP:OD1	2:E2:73:VAL:N	2.37	0.57
2:F2:72:ASP:OD1	2:F2:73:VAL:N	2.37	0.57
4:A4:4:ILE:HD11	4:A4:103:PHE:HB2	1.86	0.57
4:C4:59:LYS:NZ	5:E5:66:ASN:OD1	2.37	0.57
5:C5:356:SER:OG	5:C5:365:VAL:HG11	2.05	0.57
5:E5:332:ILE:HD11	5:E5:356:SER:HB2	1.87	0.57
5:F5:329:THR:O	5:F5:333:LYS:HG2	2.05	0.57
5:G5:114:ILE:HD12	5:G5:155:PHE:CD1	2.40	0.57
5:G5:221:ASP:CB	5:G5:252:MET:HG2	2.34	0.57
5:I5:353:TYR:HE1	5:I5:368:LEU:HB3	1.63	0.57
5:J5:68:ASP:H	5:J5:72:ASN:HD21	1.51	0.57
5:J5:101:ASN:HB2	5:J5:132:ILE:O	2.05	0.57
5:K5:18:LEU:HD11	5:K5:53:ARG:HD3	1.85	0.57
5:L5:101:ASN:HB2	5:L5:132:ILE:O	2.05	0.57
6:B6:27:VAL:HB	6:B6:309:MET:SD	2.45	0.57
6:E6:27:VAL:HB	6:E6:309:MET:SD	2.45	0.57
1:A1:19:THR:HG21	6:A6:409:THR:OG1	2.04	0.56
1:D1:88:ASP:OD1	1:D1:110:THR:N	2.22	0.56
2:A2:15:GLN:HE22	7:A7:38:SER:HA	1.69	0.56
2:B2:134:CYS:SG	2:B2:135:SER:N	2.78	0.56
3:C3:141:ASN:HD21	3:C3:144:LYS:HD2	1.69	0.56
4:A4:3:LEU:HD11	4:A4:100:GLN:HB2	1.86	0.56
5:A5:346:TYR:CD2	5:A5:381:ARG:NH2	2.67	0.56
5:D5:101:ASN:HB2	5:D5:132:ILE:O	2.05	0.56
5:E5:39:GLU:OE2	7:C7:34:THR:HG23	2.05	0.56
3:F3:75:GLU:HG3	6:F6:320:GLN:NE2	2.19	0.56
4:A4:70:ARG:HB3	4:A4:72:TRP:CZ3	2.41	0.56
4:B4:70:ARG:HB3	4:B4:72:TRP:CZ3	2.41	0.56
4:C4:38:LYS:HD3	5:E5:61:SER:OG	2.04	0.56
4:F4:41:VAL:HG22	4:F4:55:ILE:HG22	1.88	0.56
5:A5:114:ILE:HD12	5:A5:155:PHE:CD1	2.40	0.56
5:A5:237:ASP:HB2	5:A5:346:TYR:CD2	2.40	0.56
5:B5:329:THR:O	5:B5:333:LYS:HG2	2.05	0.56
5:D5:320:GLN:NE2	5:D5:403:PRO:HA	2.19	0.56
5:E5:114:ILE:HD12	5:E5:155:PHE:CD1	2.41	0.56
5:E5:149:GLY:HA3	5:E5:173:ALA:HB3	1.87	0.56
5:H5:101:ASN:HB2	5:H5:132:ILE:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:396:THR:HG21	6:D6:400:ILE:HD11	1.87	0.56
1:E1:42:ASN:O	3:A3:187:ASN:ND2	2.33	0.56
2:B2:72:ASP:OD1	2:B2:73:VAL:N	2.37	0.56
2:D2:72:ASP:OD1	2:D2:73:VAL:N	2.37	0.56
2:E2:12:LEU:HD23	5:I5:44:GLN:HE21	1.71	0.56
2:E2:188:ASP:OD2	2:E2:192:ARG:NH2	2.37	0.56
2:F2:66:LEU:O	2:F2:121:TYR:OH	2.14	0.56
3:C3:154:MET:HE2	3:C3:154:MET:HA	1.87	0.56
4:A4:41:VAL:H	4:A4:55:ILE:HG22	1.70	0.56
4:C4:4:ILE:HD11	4:C4:103:PHE:HB2	1.86	0.56
4:D4:41:VAL:H	4:D4:55:ILE:HG22	1.70	0.56
5:B5:87:VAL:O	5:B5:188:ARG:NH2	2.38	0.56
5:B5:391:SER:OG	5:B5:392:ILE:N	2.38	0.56
5:C5:30:TYR:OH	5:D5:45:ARG:HD2	2.05	0.56
5:C5:35:VAL:HG12	7:B7:2:ARG:O	2.06	0.56
5:C5:337:SER:HA	5:C5:392:ILE:HB	1.86	0.56
5:D5:329:THR:O	5:D5:333:LYS:HG2	2.05	0.56
5:F5:87:VAL:O	5:F5:188:ARG:NH2	2.39	0.56
5:G5:149:GLY:HA3	5:G5:173:ALA:HB3	1.86	0.56
5:H5:329:THR:O	5:H5:333:LYS:HG2	2.05	0.56
5:J5:96:TRP:HZ3	5:J5:173:ALA:HB2	1.69	0.56
5:K5:114:ILE:HD12	5:K5:155:PHE:CD1	2.41	0.56
6:A6:73:THR:OG1	6:A6:74:PRO:HD3	2.05	0.56
6:E6:73:THR:OG1	6:E6:74:PRO:HD3	2.05	0.56
6:E6:485:ALA:HB3	7:D7:94:ARG:NH1	2.19	0.56
2:A2:166:GLN:O	2:A2:195:THR:OG1	2.16	0.56
2:E2:134:CYS:SG	2:E2:135:SER:N	2.78	0.56
4:B4:55:ILE:HD13	4:B4:70:ARG:HG3	1.87	0.56
4:C4:70:ARG:HB3	4:C4:72:TRP:CZ3	2.40	0.56
4:D4:70:ARG:HB3	4:D4:72:TRP:CZ3	2.40	0.56
5:A5:45:ARG:NH2	5:B5:45:ARG:CZ	2.69	0.56
5:D5:87:VAL:O	5:D5:188:ARG:NH2	2.39	0.56
5:D5:120:GLN:HB3	5:D5:122:TRP:HE1	1.70	0.56
5:K5:149:GLY:HA3	5:K5:173:ALA:HB3	1.87	0.56
5:K5:221:ASP:CB	5:K5:252:MET:HG2	2.35	0.56
6:C6:392:LEU:HD21	6:C6:409:THR:HG22	1.87	0.56
6:C6:485:ALA:HB2	7:B7:60:LYS:HE3	1.87	0.56
2:A2:32:THR:O	2:A2:35:THR:HG22	2.06	0.56
3:C3:98:PRO:HD3	4:B4:34:VAL:HG23	1.86	0.56
4:A4:55:ILE:HD13	4:A4:70:ARG:HG3	1.87	0.56
5:G5:39:GLU:OE2	7:D7:35:ARG:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H5:87:VAL:O	5:H5:188:ARG:NH2	2.39	0.56
5:H5:240:ASN:HB3	5:I5:321:LYS:CG	2.34	0.56
5:L5:68:ASP:H	5:L5:72:ASN:HD21	1.51	0.56
6:C6:73:THR:OG1	6:C6:74:PRO:HD3	2.05	0.56
6:F6:8:ILE:HD12	7:D7:53:TRP:CH2	2.41	0.56
6:F6:392:LEU:HD21	6:F6:409:THR:HG22	1.87	0.56
4:A4:41:VAL:HG22	4:A4:55:ILE:HG22	1.88	0.56
5:A5:149:GLY:HA3	5:A5:173:ALA:HB3	1.88	0.56
5:A5:341:PHE:HB3	5:A5:345:GLN:OE1	2.06	0.56
5:F5:68:ASP:H	5:F5:72:ASN:HD21	1.52	0.56
5:L5:87:VAL:O	5:L5:188:ARG:NH2	2.39	0.56
6:C6:27:VAL:HB	6:C6:309:MET:SD	2.45	0.56
6:E6:202:ASN:O	6:E6:205:SER:OG	2.19	0.56
6:E6:343:ILE:HD11	6:E6:364:LEU:HD12	1.87	0.56
6:F6:27:VAL:HB	6:F6:309:MET:SD	2.45	0.56
2:B2:32:THR:O	2:B2:35:THR:HG22	2.06	0.56
3:F3:106:GLN:NE2	5:I5:143:LEU:HA	2.14	0.56
4:F4:70:ARG:HB3	4:F4:72:TRP:CZ3	2.41	0.56
5:E5:70:ASP:OD1	5:E5:189:ARG:NH2	2.38	0.56
5:K5:45:ARG:HH12	5:L5:45:ARG:HH22	1.54	0.56
5:L5:391:SER:OG	5:L5:392:ILE:N	2.39	0.56
6:D6:392:LEU:HD21	6:D6:409:THR:HG22	1.87	0.56
7:B7:51:ILE:HG13	7:B7:53:TRP:NE1	2.21	0.56
2:B2:62:ARG:NH2	5:D5:68:ASP:OD2	2.39	0.56
2:D2:134:CYS:SG	2:D2:135:SER:N	2.78	0.56
4:C4:41:VAL:H	4:C4:55:ILE:HG22	1.70	0.56
4:C4:41:VAL:HG22	4:C4:55:ILE:HG22	1.87	0.56
4:E4:70:ARG:HB3	4:E4:72:TRP:CZ3	2.41	0.56
5:A5:45:ARG:NH2	5:B5:45:ARG:NH2	2.54	0.56
5:B5:240:ASN:HB3	5:C5:321:LYS:CG	2.34	0.56
5:D5:321:LYS:HZ1	5:E5:381:ARG:HH21	1.50	0.56
5:H5:191:ARG:NH2	5:H5:235:ASN:HB3	2.21	0.56
5:J5:391:SER:OG	5:J5:392:ILE:N	2.39	0.56
6:A6:396:THR:HG21	6:A6:400:ILE:HD11	1.87	0.56
6:F6:343:ILE:HD11	6:F6:364:LEU:HD12	1.87	0.56
7:A7:51:ILE:HG13	7:A7:53:TRP:NE1	2.21	0.56
2:C2:32:THR:O	2:C2:35:THR:HG22	2.06	0.56
2:C2:188:ASP:OD2	2:C2:192:ARG:NH2	2.37	0.56
2:D2:32:THR:O	2:D2:35:THR:HG22	2.06	0.56
4:B4:3:LEU:HD11	4:B4:100:GLN:HB2	1.86	0.56
4:E4:41:VAL:H	4:E4:55:ILE:HG22	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:328:ASP:OD2	5:A5:328:ASP:N	2.39	0.56
5:C5:372:LEU:HD23	5:C5:382:VAL:HG22	1.88	0.56
5:F5:78:GLN:NE2	5:F5:88:LEU:HD23	2.20	0.56
6:B6:73:THR:OG1	6:B6:74:PRO:HD3	2.05	0.56
6:D6:27:VAL:HB	6:D6:309:MET:SD	2.45	0.56
2:A2:72:ASP:OD1	2:A2:73:VAL:N	2.37	0.56
3:A3:143:ALA:HB2	7:E7:67:LEU:HD12	1.88	0.56
5:A5:178:GLU:OE1	5:A5:178:GLU:N	2.32	0.56
5:B5:247:ILE:HG13	5:B5:277:LYS:HD2	1.87	0.56
5:E5:272:ARG:NH2	5:E5:275:ASN:O	2.39	0.56
5:G5:237:ASP:HB2	5:G5:346:TYR:CD2	2.40	0.56
5:I5:38:GLN:HG3	7:E7:43:ASN:HD22	1.71	0.56
5:L5:320:GLN:NE2	5:L5:403:PRO:HA	2.21	0.56
6:A6:27:VAL:HB	6:A6:309:MET:SD	2.45	0.56
6:D6:343:ILE:HD11	6:D6:364:LEU:HD12	1.87	0.56
7:C7:51:ILE:HG13	7:C7:53:TRP:NE1	2.21	0.56
3:E3:75:GLU:OE1	3:E3:78:GLN:NE2	2.31	0.55
3:E3:106:GLN:HE22	5:G5:143:LEU:CA	2.09	0.55
3:F3:248:VAL:HG13	4:E4:111:GLN:HG2	1.87	0.55
4:D4:38:LYS:HD2	4:D4:57:GLY:HA2	1.88	0.55
4:F4:69:HIS:NE2	5:L5:75:ASP:OD1	2.39	0.55
5:A5:235:ASN:HB3	5:A5:237:ASP:OD1	2.05	0.55
5:C5:30:TYR:O	7:B7:18:LYS:NZ	2.38	0.55
5:D5:391:SER:OG	5:D5:392:ILE:N	2.39	0.55
5:J5:87:VAL:O	5:J5:188:ARG:NH2	2.39	0.55
5:K5:45:ARG:HH12	5:L5:45:ARG:HH12	1.53	0.55
6:A6:392:LEU:HD21	6:A6:409:THR:HG22	1.87	0.55
6:C6:343:ILE:HD11	6:C6:364:LEU:HD12	1.87	0.55
6:E6:396:THR:HG21	6:E6:400:ILE:HD11	1.87	0.55
1:A1:40:ARG:NH1	1:B1:135:GLU:O	2.40	0.55
3:A3:117:ASP:OD2	7:E7:1:MET:HG2	2.06	0.55
3:E3:231:GLN:NE2	4:D4:4:ILE:HG23	2.22	0.55
4:E4:38:LYS:HD2	4:E4:57:GLY:HA2	1.88	0.55
4:E4:59:LYS:HZ1	5:I5:72:ASN:HA	1.72	0.55
5:B5:321:LYS:CD	5:C5:381:ARG:HD3	2.37	0.55
5:C5:279:SER:N	5:C5:305:ASP:OD1	2.40	0.55
5:E5:328:ASP:OD2	5:E5:328:ASP:N	2.39	0.55
5:F5:101:ASN:HB2	5:F5:132:ILE:O	2.05	0.55
5:H5:120:GLN:HB3	5:H5:122:TRP:HE1	1.71	0.55
5:I5:19:ARG:NH1	5:I5:23:GLU:OE1	2.36	0.55
6:D6:73:THR:OG1	6:D6:74:PRO:HD3	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B4:69:HIS:NE2	5:D5:75:ASP:OD1	2.39	0.55
4:C4:38:LYS:HD2	4:C4:57:GLY:HA2	1.88	0.55
4:E4:41:VAL:HG22	4:E4:55:ILE:HG22	1.87	0.55
5:C5:346:TYR:HB3	5:C5:381:ARG:HE	1.71	0.55
5:G5:30:TYR:O	7:D7:18:LYS:NZ	2.40	0.55
5:G5:235:ASN:HB3	5:G5:237:ASP:OD1	2.05	0.55
5:I5:30:TYR:OH	5:J5:45:ARG:HD2	2.06	0.55
5:I5:35:VAL:HG12	7:E7:2:ARG:O	2.06	0.55
5:I5:273:LEU:HD23	5:I5:273:LEU:O	2.06	0.55
5:L5:66:ASN:HB3	5:L5:76:MET:HG2	1.87	0.55
6:B6:392:LEU:HD21	6:B6:409:THR:HG22	1.87	0.55
5:K5:45:ARG:NH1	5:L5:45:ARG:HH22	2.04	0.55
5:L5:96:TRP:HZ3	5:L5:173:ALA:HB2	1.69	0.55
5:L5:191:ARG:NH2	5:L5:235:ASN:HB3	2.19	0.55
6:F6:73:THR:OG1	6:F6:74:PRO:HD3	2.05	0.55
2:A2:15:GLN:NE2	7:A7:37:LYS:O	2.35	0.55
2:D2:14:LYS:NZ	7:D7:39:TRP:CE3	2.72	0.55
4:B4:41:VAL:HG22	4:B4:55:ILE:HG22	1.87	0.55
5:A5:270:LYS:HE3	5:A5:271:HIS:NE2	2.21	0.55
5:C5:114:ILE:HD12	5:C5:155:PHE:CD1	2.41	0.55
5:F5:66:ASN:HB3	5:F5:76:MET:HG2	1.88	0.55
5:F5:247:ILE:HG13	5:F5:277:LYS:HD2	1.88	0.55
5:I5:42:ASP:OD2	7:E7:21:TYR:OH	2.09	0.55
5:J5:120:GLN:HB3	5:J5:122:TRP:HE1	1.70	0.55
5:L5:86:LEU:HD23	5:L5:86:LEU:H	1.72	0.55
6:A6:343:ILE:HD11	6:A6:364:LEU:HD12	1.87	0.55
2:B2:14:LYS:HG3	7:B7:42:ASP:OD1	2.06	0.55
4:A4:59:LYS:HZ1	5:A5:72:ASN:HA	1.71	0.55
5:B5:45:ARG:NH1	7:A7:14:PHE:CD1	2.74	0.55
5:E5:30:TYR:O	7:C7:18:LYS:NZ	2.40	0.55
5:F5:86:LEU:HD23	5:F5:86:LEU:H	1.72	0.55
5:K5:270:LYS:HE3	5:K5:271:HIS:NE2	2.21	0.55
6:A6:209:LEU:HD23	6:A6:209:LEU:O	2.07	0.55
6:D6:353:LEU:O	6:D6:363:LEU:HD12	2.07	0.55
6:E6:353:LEU:O	6:E6:363:LEU:HD12	2.07	0.55
7:F7:51:ILE:HG13	7:F7:53:TRP:NE1	2.21	0.55
2:C2:62:ARG:HH21	5:F5:68:ASP:CG	2.10	0.55
2:E2:32:THR:O	2:E2:35:THR:HG22	2.06	0.55
4:B4:41:VAL:HG22	4:B4:55:ILE:CG2	2.37	0.55
5:A5:45:ARG:NH2	5:B5:45:ARG:NE	2.54	0.55
5:F5:237:ASP:O	5:F5:240:ASN:ND2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A6:37:LEU:HD12	6:A6:56:PHE:HZ	1.72	0.55
6:E6:209:LEU:O	6:E6:209:LEU:HD23	2.07	0.55
6:F6:353:LEU:O	6:F6:363:LEU:HD12	2.07	0.55
2:D2:8:TYR:HB3	2:D2:30:ILE:HD12	1.89	0.55
3:C3:75:GLU:HG3	6:C6:320:GLN:NE2	2.22	0.55
3:D3:221:LYS:HD3	5:E5:51:LEU:HD11	1.89	0.55
4:C4:41:VAL:HG22	4:C4:55:ILE:CG2	2.37	0.55
5:B5:78:GLN:NE2	5:B5:88:LEU:HD23	2.22	0.55
5:B5:191:ARG:NH2	5:B5:235:ASN:HB3	2.21	0.55
5:G5:270:LYS:HE3	5:G5:271:HIS:NE2	2.21	0.55
5:I5:114:ILE:HD12	5:I5:155:PHE:CD1	2.41	0.55
5:I5:270:LYS:HE3	5:I5:271:HIS:NE2	2.21	0.55
6:A6:485:ALA:HB3	7:F7:94:ARG:NH1	2.22	0.55
6:D6:209:LEU:HD23	6:D6:209:LEU:O	2.07	0.55
1:A1:110:THR:HG21	3:A3:74:VAL:HG21	1.89	0.55
2:A2:62:ARG:NH2	5:B5:68:ASP:OD2	2.40	0.55
3:C3:103:GLN:HA	3:C3:106:GLN:HB3	1.88	0.55
3:C3:176:MET:HB3	3:C3:198:PHE:HB3	1.89	0.55
3:C3:233:PRO:HG2	4:B4:17:LEU:HG	1.88	0.55
5:A5:153:SER:OG	5:A5:154:SER:N	2.37	0.55
5:E5:35:VAL:HG12	7:C7:2:ARG:O	2.07	0.55
5:G5:153:SER:OG	5:G5:154:SER:N	2.37	0.55
5:I5:49:GLU:OE2	5:J5:53:ARG:NH2	2.28	0.55
5:I5:148:SER:OG	7:D7:16:ARG:NE	2.38	0.55
2:F2:32:THR:O	2:F2:35:THR:HG22	2.06	0.55
3:F3:103:GLN:HA	3:F3:106:GLN:HB3	1.88	0.55
4:A4:41:VAL:HG22	4:A4:55:ILE:CG2	2.37	0.55
4:D4:71:ASN:HD21	5:H5:90:PRO:CA	2.13	0.55
4:E4:41:VAL:HG22	4:E4:55:ILE:CG2	2.37	0.55
4:F4:41:VAL:HG22	4:F4:55:ILE:CG2	2.37	0.55
5:C5:328:ASP:OD2	5:C5:328:ASP:N	2.40	0.55
5:F5:120:GLN:HB3	5:F5:122:TRP:HE1	1.72	0.55
5:F5:391:SER:OG	5:F5:392:ILE:N	2.39	0.55
5:G5:25:GLY:O	5:G5:29:ILE:HD12	2.07	0.55
5:G5:35:VAL:HG12	7:D7:2:ARG:O	2.07	0.55
5:G5:353:TYR:HE1	5:G5:368:LEU:HB3	1.64	0.55
5:K5:39:GLU:OE2	7:F7:34:THR:HG23	2.06	0.55
6:B6:209:LEU:O	6:B6:209:LEU:HD23	2.07	0.55
6:B6:491:ILE:HG12	7:A7:98:ILE:HG12	1.88	0.55
6:D6:195:ILE:HG22	6:D6:199:LEU:HG	1.89	0.55
6:E6:337:GLU:OE1	6:E6:356:THR:OG1	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E6:392:LEU:HD21	6:E6:409:THR:HG22	1.87	0.55
6:F6:491:ILE:HG12	7:E7:98:ILE:HG12	1.89	0.55
1:C1:110:THR:HG21	3:C3:74:VAL:HG21	1.88	0.54
2:C2:8:TYR:HB3	2:C2:30:ILE:HD12	1.89	0.54
2:C2:15:GLN:HG2	7:C7:34:THR:OG1	2.06	0.54
3:B3:176:MET:HB3	3:B3:198:PHE:HB3	1.89	0.54
3:C3:221:LYS:HD3	5:C5:51:LEU:HD11	1.90	0.54
4:D4:41:VAL:HG22	4:D4:55:ILE:HG22	1.87	0.54
5:A5:35:VAL:HG12	7:A7:2:ARG:O	2.07	0.54
5:C5:162:ILE:HD12	5:C5:162:ILE:H	1.73	0.54
5:C5:270:LYS:HE3	5:C5:271:HIS:NE2	2.21	0.54
5:D5:381:ARG:HH21	5:E5:321:LYS:HG2	1.71	0.54
5:E5:270:LYS:HE3	5:E5:271:HIS:NE2	2.21	0.54
5:G5:341:PHE:HB3	5:G5:345:GLN:OE1	2.06	0.54
5:I5:63:LEU:O	5:I5:67:LEU:HD23	2.07	0.54
5:J5:381:ARG:CD	5:K5:321:LYS:HE3	2.37	0.54
5:K5:81:GLY:O	5:K5:86:LEU:N	2.41	0.54
5:L5:320:GLN:HB3	5:L5:327:ILE:HG23	1.88	0.54
6:B6:353:LEU:O	6:B6:363:LEU:HD12	2.07	0.54
6:C6:353:LEU:O	6:C6:363:LEU:HD12	2.07	0.54
6:E6:195:ILE:HG22	6:E6:199:LEU:HG	1.89	0.54
6:E6:487:HIS:CG	7:D7:94:ARG:HD2	2.42	0.54
2:E2:8:TYR:HB3	2:E2:30:ILE:HD12	1.89	0.54
3:A3:158:TYR:CZ	3:F3:58:ASN:OD1	2.60	0.54
3:B3:103:GLN:HA	3:B3:106:GLN:HB3	1.88	0.54
3:D3:75:GLU:HG3	6:D6:320:GLN:NE2	2.22	0.54
3:E3:34:THR:HG22	3:F3:184:VAL:HG22	1.89	0.54
3:E3:144:LYS:O	3:E3:149:LYS:NZ	2.33	0.54
4:A4:71:ASN:HD21	5:B5:90:PRO:CA	2.11	0.54
5:A5:353:TYR:HE1	5:A5:368:LEU:HB3	1.64	0.54
5:B5:350:ASP:OD1	5:C5:365:VAL:HG23	2.07	0.54
5:C5:80:ILE:O	5:C5:84:SER:N	2.19	0.54
5:H5:78:GLN:NE2	5:H5:88:LEU:HD23	2.22	0.54
5:I5:124:LEU:HD13	5:I5:139:PHE:HD1	1.71	0.54
5:J5:102:MET:HE1	5:J5:164:VAL:H	1.72	0.54
6:C6:209:LEU:HD23	6:C6:209:LEU:O	2.07	0.54
1:E1:88:ASP:OD1	1:E1:110:THR:N	2.22	0.54
2:E2:62:ARG:NH2	5:J5:68:ASP:OD2	2.40	0.54
4:B4:38:LYS:HD2	4:B4:57:GLY:HA2	1.88	0.54
4:F4:38:LYS:HD2	4:F4:57:GLY:HA2	1.88	0.54
5:B5:120:GLN:HB3	5:B5:122:TRP:HE1	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E5:273:LEU:O	5:E5:273:LEU:HD23	2.07	0.54
5:H5:247:ILE:HG13	5:H5:277:LYS:HD2	1.87	0.54
5:J5:312:LEU:HD11	5:J5:347:VAL:HG21	1.88	0.54
6:A6:353:LEU:O	6:A6:363:LEU:HD12	2.07	0.54
6:F6:37:LEU:HD12	6:F6:56:PHE:HZ	1.72	0.54
7:D7:51:ILE:HG13	7:D7:53:TRP:NE1	2.21	0.54
1:C1:92:LYS:HZ1	6:C6:411:GLU:HG2	1.72	0.54
1:D1:19:THR:HG21	6:D6:409:THR:OG1	2.07	0.54
2:B2:12:LEU:HD23	5:C5:44:GLN:HE21	1.73	0.54
2:E2:66:LEU:O	2:E2:121:TYR:OH	2.14	0.54
3:B3:154:MET:HA	3:B3:154:MET:HE2	1.90	0.54
4:B4:38:LYS:HD3	5:C5:61:SER:OG	2.07	0.54
5:A5:252:MET:H	5:A5:272:ARG:HH21	1.54	0.54
5:B5:86:LEU:HD23	5:B5:86:LEU:H	1.73	0.54
5:D5:78:GLN:NE2	5:D5:88:LEU:HD23	2.22	0.54
5:E5:329:THR:O	5:E5:333:LYS:NZ	2.24	0.54
5:F5:320:GLN:HB3	5:F5:327:ILE:HG23	1.89	0.54
5:J5:346:TYR:HE1	5:J5:383:PHE:CD2	2.26	0.54
5:L5:120:GLN:HB3	5:L5:122:TRP:HE1	1.72	0.54
6:A6:17:ARG:HG3	6:A6:19:ILE:HG23	1.90	0.54
6:D6:337:GLU:OE1	6:D6:356:THR:OG1	2.25	0.54
6:E6:327:GLN:HG2	6:E6:364:LEU:HA	1.90	0.54
3:A3:75:GLU:OE1	3:A3:78:GLN:NE2	2.31	0.54
3:D3:98:PRO:HD3	4:C4:34:VAL:CG2	2.37	0.54
3:E3:103:GLN:HA	3:E3:106:GLN:HB3	1.88	0.54
3:E3:154:MET:HE2	3:E3:154:MET:HA	1.90	0.54
4:A4:38:LYS:HD2	4:A4:57:GLY:HA2	1.88	0.54
4:F4:38:LYS:HD3	5:K5:61:SER:OG	2.07	0.54
5:C5:39:GLU:CD	7:B7:34:THR:HG23	2.28	0.54
5:C5:124:LEU:HD13	5:C5:139:PHE:HD1	1.71	0.54
5:H5:86:LEU:HD23	5:H5:86:LEU:H	1.73	0.54
5:I5:162:ILE:H	5:I5:162:ILE:HD12	1.72	0.54
6:B6:17:ARG:HG3	6:B6:19:ILE:HG23	1.90	0.54
6:B6:337:GLU:OE1	6:B6:356:THR:OG1	2.25	0.54
6:C6:17:ARG:HG3	6:C6:19:ILE:HG23	1.90	0.54
6:C6:75:ASN:O	6:C6:78:SER:OG	2.24	0.54
6:C6:184:SER:OG	6:C6:186:LEU:N	2.41	0.54
6:D6:104:SER:HB2	6:D6:170:PHE:HB2	1.90	0.54
7:F7:24:SER:C	7:F7:26:LYS:H	2.11	0.54
1:C1:25:GLN:NE2	1:D1:124:GLN:OE1	2.40	0.54
3:A3:176:MET:HB3	3:A3:198:PHE:HB3	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F4:31:GLU:OE1	5:K5:58:SER:OG	2.10	0.54
5:C5:63:LEU:O	5:C5:67:LEU:HD23	2.08	0.54
5:J5:219:VAL:H	5:J5:234:SER:HB3	1.71	0.54
6:F6:17:ARG:HG3	6:F6:19:ILE:HG23	1.90	0.54
7:E7:24:SER:C	7:E7:26:LYS:H	2.11	0.54
1:A1:37:LYS:N	1:B1:114:THR:O	2.32	0.54
1:C1:37:LYS:NZ	1:D1:79:LYS:O	2.41	0.54
5:K5:35:VAL:HG12	7:F7:2:ARG:O	2.07	0.54
6:A6:104:SER:HB2	6:A6:170:PHE:HB2	1.90	0.54
6:C6:37:LEU:HD12	6:C6:56:PHE:HZ	1.72	0.54
6:C6:487:HIS:ND1	7:B7:94:ARG:HD2	2.23	0.54
6:F6:202:ASN:O	6:F6:205:SER:OG	2.19	0.54
1:D1:37:LYS:N	1:E1:114:THR:O	2.34	0.54
2:A2:8:TYR:HB3	2:A2:30:ILE:HD12	1.89	0.54
2:C2:62:ARG:NH2	5:F5:68:ASP:OD2	2.41	0.54
2:D2:62:ARG:NH2	5:H5:68:ASP:OD2	2.41	0.54
3:C3:75:GLU:OE1	3:C3:78:GLN:NE2	2.31	0.54
5:D5:346:TYR:HB3	5:D5:381:ARG:HD2	1.90	0.54
5:E5:25:GLY:O	5:E5:29:ILE:HD12	2.07	0.54
5:I5:25:GLY:O	5:I5:29:ILE:HD12	2.08	0.54
5:J5:321:LYS:NZ	5:K5:381:ARG:NH2	2.48	0.54
6:B6:104:SER:HB2	6:B6:170:PHE:HB2	1.90	0.54
6:D6:17:ARG:HG3	6:D6:19:ILE:HG23	1.90	0.54
6:F6:104:SER:HB2	6:F6:170:PHE:HB2	1.90	0.54
2:E2:46:ASN:O	2:E2:46:ASN:ND2	2.33	0.54
5:A5:30:TYR:O	7:A7:18:LYS:NZ	2.40	0.54
5:A5:381:ARG:NH2	5:L5:321:LYS:HZ1	2.06	0.54
5:L5:247:ILE:HG13	5:L5:277:LYS:HD2	1.88	0.54
6:E6:37:LEU:HD12	6:E6:56:PHE:HZ	1.72	0.54
6:E6:491:ILE:HB	6:F6:10:VAL:HG22	1.90	0.54
7:E7:51:ILE:HG13	7:E7:53:TRP:NE1	2.21	0.54
2:D2:166:GLN:O	2:D2:195:THR:OG1	2.16	0.54
3:B3:75:GLU:OE1	3:B3:78:GLN:NE2	2.31	0.54
3:B3:144:LYS:O	3:B3:149:LYS:NZ	2.33	0.54
3:D3:108:ILE:HG23	4:C4:89:TYR:CE2	2.43	0.54
3:D3:240:GLU:HG3	4:C4:2:ASN:OD1	2.08	0.54
3:E3:114:GLN:HE21	5:E5:33:ASP:CG	2.12	0.54
3:F3:117:ASP:OD2	7:D7:1:MET:HG2	2.07	0.54
4:D4:31:GLU:OE1	5:G5:58:SER:OG	2.10	0.54
5:A5:63:LEU:O	5:A5:67:LEU:HD23	2.08	0.54
5:I5:81:GLY:O	5:I5:86:LEU:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:37:LEU:HD12	6:B6:56:PHE:HZ	1.72	0.54
6:F6:327:GLN:HG2	6:F6:364:LEU:HA	1.90	0.54
2:D2:124:PHE:CE1	2:D2:184:LEU:HD11	2.43	0.53
3:E3:231:GLN:HE21	4:D4:4:ILE:HG23	1.70	0.53
4:D4:41:VAL:HG22	4:D4:55:ILE:CG2	2.37	0.53
5:A5:25:GLY:O	5:A5:29:ILE:HD12	2.07	0.53
5:E5:81:GLY:O	5:E5:86:LEU:N	2.41	0.53
5:H5:312:LEU:HD11	5:H5:347:VAL:HG21	1.90	0.53
5:H5:320:GLN:HB3	5:H5:327:ILE:HG23	1.90	0.53
5:I5:243:GLU:N	5:I5:243:GLU:OE1	2.41	0.53
6:A6:491:ILE:HG12	7:F7:98:ILE:HG12	1.90	0.53
6:D6:244:GLN:N	6:D6:302:ARG:HH12	2.06	0.53
6:F6:209:LEU:HD23	6:F6:209:LEU:O	2.07	0.53
6:F6:244:GLN:N	6:F6:302:ARG:HH12	2.06	0.53
1:D1:2:SER:N	1:E1:66:GLN:OE1	2.40	0.53
3:A3:106:GLN:NE2	5:K5:143:LEU:HA	2.16	0.53
3:B3:114:GLN:HE21	5:K5:33:ASP:CG	2.12	0.53
3:D3:103:GLN:HA	3:D3:106:GLN:HB3	1.88	0.53
3:D3:176:MET:HB3	3:D3:198:PHE:HB3	1.89	0.53
5:I5:316:LEU:HD21	5:I5:368:LEU:HD12	1.89	0.53
6:A6:244:GLN:N	6:A6:302:ARG:HH12	2.06	0.53
6:B6:124:PHE:CE2	6:B6:154:LEU:HD22	2.44	0.53
6:B6:195:ILE:HG22	6:B6:199:LEU:HG	1.89	0.53
6:F6:337:GLU:OE1	6:F6:356:THR:OG1	2.25	0.53
1:C1:59:HIS:ND1	1:C1:139:SER:OG	2.41	0.53
1:F1:14:THR:OG1	1:F1:19:THR:HG22	2.09	0.53
1:F1:57:GLY:O	1:F1:59:HIS:ND1	2.36	0.53
2:D2:15:GLN:NE2	7:D7:37:LYS:C	2.61	0.53
2:E2:124:PHE:CE1	2:E2:184:LEU:HD11	2.43	0.53
3:A3:28:PHE:HB3	3:A3:69:VAL:HG22	1.90	0.53
3:B3:141:ASN:ND2	7:F7:71:GLU:OE1	2.41	0.53
5:C5:208:LEU:HD23	5:C5:217:LEU:HD22	1.91	0.53
5:F5:14:THR:HG22	5:F5:17:GLU:HG3	1.89	0.53
5:G5:148:SER:OG	7:C7:16:ARG:NE	2.40	0.53
5:K5:178:GLU:OE1	5:K5:178:GLU:N	2.33	0.53
5:L5:194:GLU:OE1	5:L5:202:GLY:HA3	2.08	0.53
6:A6:124:PHE:CE2	6:A6:154:LEU:HD22	2.44	0.53
6:A6:195:ILE:HG22	6:A6:199:LEU:HG	1.89	0.53
6:B6:87:TYR:HH	6:B6:89:ARG:HG2	1.74	0.53
6:D6:37:LEU:HD12	6:D6:56:PHE:HZ	1.72	0.53
6:D6:184:SER:OG	6:D6:186:LEU:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:327:GLN:HG2	6:D6:364:LEU:HA	1.90	0.53
6:E6:17:ARG:HG3	6:E6:19:ILE:HG23	1.90	0.53
1:A1:2:SER:N	1:B1:66:GLN:OE1	2.41	0.53
1:E1:22:HIS:CG	1:E1:69:SER:HG	2.25	0.53
3:A3:183:PRO:HG2	3:F3:35:VAL:HG22	1.90	0.53
3:B3:28:PHE:HB3	3:B3:69:VAL:HG22	1.90	0.53
3:E3:234:GLU:HA	4:D4:2:ASN:ND2	2.24	0.53
5:H5:42:ASP:O	5:H5:46:ILE:HG13	2.08	0.53
7:A7:24:SER:C	7:A7:26:LYS:H	2.11	0.53
1:A1:14:THR:OG1	1:A1:19:THR:HG22	2.09	0.53
1:D1:25:GLN:NE2	1:E1:124:GLN:OE1	2.42	0.53
2:C2:124:PHE:CE1	2:C2:184:LEU:HD11	2.43	0.53
2:E2:114:TYR:HB2	5:K5:328:ASP:HB3	1.91	0.53
3:C3:180:SER:O	3:C3:196:ALA:HA	2.09	0.53
4:E4:38:LYS:HD3	5:I5:61:SER:OG	2.07	0.53
5:B5:191:ARG:NH1	5:B5:235:ASN:HB3	2.22	0.53
5:F5:286:ASP:OD1	5:F5:286:ASP:N	2.42	0.53
5:J5:78:GLN:NE2	5:J5:88:LEU:HD23	2.24	0.53
5:J5:157:GLN:HB2	5:J5:160:PRO:HG3	1.90	0.53
6:A6:39:THR:HG23	6:A6:93:GLU:OE1	2.09	0.53
6:B6:244:GLN:N	6:B6:302:ARG:HH12	2.06	0.53
6:B6:327:GLN:HG2	6:B6:364:LEU:HA	1.90	0.53
1:B1:59:HIS:ND1	1:B1:139:SER:OG	2.41	0.53
1:F1:90:SER:OG	6:F6:412:ASP:OD1	2.19	0.53
2:A2:124:PHE:CE1	2:A2:184:LEU:HD11	2.43	0.53
2:E2:8:TYR:CE1	3:F3:93:ILE:HD11	2.43	0.53
2:F2:62:ARG:NH2	5:L5:68:ASP:OD2	2.41	0.53
3:A3:103:GLN:HA	3:A3:106:GLN:HB3	1.88	0.53
3:C3:114:GLN:HE21	5:A5:33:ASP:CG	2.12	0.53
3:F3:176:MET:HB3	3:F3:198:PHE:HB3	1.89	0.53
4:B4:59:LYS:HG3	5:C5:65:SER:OG	2.09	0.53
5:B5:219:VAL:H	5:B5:234:SER:HB3	1.73	0.53
5:F5:113:THR:OG1	5:F5:121:ASN:HA	2.08	0.53
5:G5:372:LEU:HD23	5:G5:382:VAL:HG22	1.90	0.53
6:A6:337:GLU:OE1	6:A6:356:THR:OG1	2.25	0.53
7:D7:24:SER:C	7:D7:26:LYS:H	2.11	0.53
1:D1:110:THR:HG21	3:D3:74:VAL:HG21	1.89	0.53
2:B2:143:LYS:HD2	5:D5:198:GLN:OE1	2.09	0.53
3:B3:106:GLN:NE2	5:A5:143:LEU:HD13	2.24	0.53
3:B3:180:SER:O	3:B3:196:ALA:HA	2.09	0.53
5:C5:96:TRP:CG	5:C5:173:ALA:HB2	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D5:320:GLN:HB3	5:D5:327:ILE:HG23	1.90	0.53
5:E5:279:SER:N	5:E5:305:ASP:OD1	2.40	0.53
5:L5:312:LEU:HD11	5:L5:347:VAL:HG21	1.89	0.53
6:A6:491:ILE:HB	6:B6:10:VAL:HG22	1.90	0.53
6:C6:39:THR:HG23	6:C6:93:GLU:OE1	2.09	0.53
6:C6:195:ILE:HG22	6:C6:199:LEU:HG	1.89	0.53
6:C6:244:GLN:N	6:C6:302:ARG:HH12	2.06	0.53
6:D6:491:ILE:HB	6:E6:10:VAL:HG22	1.90	0.53
6:E6:104:SER:HB2	6:E6:170:PHE:HB2	1.90	0.53
6:F6:39:THR:HG23	6:F6:93:GLU:OE1	2.09	0.53
7:B7:89:ILE:HG22	7:B7:90:LYS:H	1.74	0.53
1:C1:14:THR:OG1	1:C1:19:THR:HG22	2.09	0.53
2:B2:8:TYR:HB3	2:B2:30:ILE:HD12	1.89	0.53
3:B3:221:LYS:HD3	5:A5:51:LEU:HD11	1.91	0.53
3:C3:28:PHE:HB3	3:C3:69:VAL:HG22	1.91	0.53
4:D4:26:LEU:HD11	4:D4:39:MET:SD	2.49	0.53
5:A5:76:MET:HE1	5:A5:182:PRO:HA	1.90	0.53
5:D5:42:ASP:OD1	5:D5:43:GLY:N	2.42	0.53
5:F5:191:ARG:NH1	5:F5:235:ASN:HB3	2.23	0.53
5:I5:30:TYR:O	7:E7:18:LYS:NZ	2.42	0.53
5:I5:208:LEU:HD23	5:I5:217:LEU:HD22	1.91	0.53
5:I5:376:ASP:OD1	5:I5:376:ASP:N	2.42	0.53
5:K5:130:VAL:HB	5:K5:135:ASN:OD1	2.09	0.53
5:L5:14:THR:HG22	5:L5:17:GLU:HG3	1.89	0.53
5:L5:191:ARG:NH1	5:L5:235:ASN:HB3	2.22	0.53
6:A6:327:GLN:HG2	6:A6:364:LEU:HA	1.90	0.53
6:C6:337:GLU:OE1	6:C6:356:THR:OG1	2.25	0.53
6:D6:124:PHE:CE2	6:D6:154:LEU:HD22	2.43	0.53
6:F6:89:ARG:NE	6:F6:220:ALA:O	2.37	0.53
1:B1:14:THR:OG1	1:B1:19:THR:HG22	2.09	0.53
1:E1:40:ARG:NH1	1:F1:135:GLU:O	2.42	0.53
2:B2:124:PHE:CE1	2:B2:184:LEU:HD11	2.43	0.53
2:C2:14:LYS:HE3	6:D6:357:ILE:HG21	1.91	0.53
2:F2:8:TYR:HB3	2:F2:30:ILE:HD12	1.89	0.53
3:B3:75:GLU:HG3	6:B6:320:GLN:NE2	2.24	0.53
3:D3:141:ASN:ND2	7:B7:71:GLU:OE1	2.42	0.53
4:C4:26:LEU:HD11	4:C4:39:MET:SD	2.49	0.53
5:D5:86:LEU:HD23	5:D5:86:LEU:H	1.74	0.53
5:D5:353:TYR:CE2	5:E5:353:TYR:CE2	2.97	0.53
5:I5:218:GLN:NE2	5:I5:235:ASN:HD21	2.07	0.53
5:J5:86:LEU:HD23	5:J5:86:LEU:H	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A6:10:VAL:HG22	6:F6:491:ILE:HB	1.90	0.53
6:B6:184:SER:OG	6:B6:186:LEU:N	2.41	0.53
6:C6:104:SER:HB2	6:C6:170:PHE:HB2	1.90	0.53
6:C6:124:PHE:CE2	6:C6:154:LEU:HD22	2.44	0.53
6:D6:317:PHE:HD1	6:D6:424:ASN:OD1	1.92	0.53
7:A7:89:ILE:HG22	7:A7:90:LYS:H	1.74	0.53
7:C7:89:ILE:HG22	7:C7:90:LYS:H	1.74	0.53
3:C3:226:SER:N	4:B4:12:ILE:O	2.41	0.53
3:F3:180:SER:O	3:F3:196:ALA:HA	2.09	0.53
4:D4:106:PRO:O	4:D4:110:ILE:HG12	2.09	0.53
5:F5:102:MET:HA	5:F5:164:VAL:HG21	1.91	0.53
5:I5:96:TRP:CG	5:I5:173:ALA:HB2	2.43	0.53
5:J5:66:ASN:CB	5:J5:76:MET:HG2	2.31	0.53
6:E6:317:PHE:HD1	6:E6:424:ASN:OD1	1.92	0.53
6:F6:184:SER:OG	6:F6:186:LEU:N	2.41	0.53
2:D2:48:ASP:HB3	5:G5:78:GLN:CD	2.29	0.52
2:E2:15:GLN:NE2	7:E7:37:LYS:O	2.34	0.52
3:E3:234:GLU:HA	4:D4:2:ASN:HD22	1.74	0.52
4:C4:71:ASN:HD21	5:F5:90:PRO:CA	2.17	0.52
4:C4:106:PRO:O	4:C4:110:ILE:HG12	2.09	0.52
4:E4:106:PRO:O	4:E4:110:ILE:HG12	2.10	0.52
4:F4:106:PRO:O	4:F4:110:ILE:HG12	2.09	0.52
5:C5:69:PRO:HA	5:C5:80:ILE:HG21	1.91	0.52
5:C5:218:GLN:NE2	5:C5:235:ASN:HD21	2.07	0.52
5:E5:36:THR:O	5:E5:36:THR:OG1	2.27	0.52
5:E5:39:GLU:CD	7:C7:34:THR:HG23	2.30	0.52
5:G5:96:TRP:CG	5:G5:173:ALA:HB2	2.45	0.52
5:J5:199:SER:OG	5:J5:199:SER:O	2.26	0.52
6:A6:317:PHE:HD1	6:A6:424:ASN:OD1	1.92	0.52
6:C6:317:PHE:HD1	6:C6:424:ASN:OD1	1.92	0.52
6:F6:195:ILE:HG22	6:F6:199:LEU:HG	1.89	0.52
6:F6:293:ARG:NH1	6:F6:370:ASP:O	2.42	0.52
2:E2:137:TYR:HB2	2:E2:140:SER:HB2	1.92	0.52
2:F2:124:PHE:CE1	2:F2:184:LEU:HD11	2.43	0.52
3:D3:154:MET:HE2	3:D3:154:MET:HA	1.91	0.52
3:F3:103:GLN:HB2	5:I5:144:TRP:HB3	1.92	0.52
4:B4:26:LEU:HD11	4:B4:39:MET:SD	2.49	0.52
5:A5:279:SER:N	5:A5:305:ASP:OD1	2.41	0.52
5:E5:130:VAL:HB	5:E5:135:ASN:OD1	2.09	0.52
5:H5:191:ARG:NH1	5:H5:235:ASN:HB3	2.22	0.52
5:H5:194:GLU:OE1	5:H5:202:GLY:HA3	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J5:42:ASP:OD1	5:J5:43:GLY:N	2.43	0.52
5:K5:25:GLY:O	5:K5:29:ILE:HD12	2.08	0.52
5:K5:273:LEU:O	5:K5:273:LEU:HD23	2.08	0.52
5:L5:102:MET:HA	5:L5:164:VAL:HG21	1.92	0.52
6:B6:293:ARG:NH1	6:B6:370:ASP:O	2.42	0.52
6:B6:317:PHE:HD1	6:B6:424:ASN:OD1	1.92	0.52
6:C6:293:ARG:NH1	6:C6:370:ASP:O	2.42	0.52
6:C6:485:ALA:HB3	7:B7:94:ARG:NH1	2.25	0.52
6:D6:39:THR:HG23	6:D6:93:GLU:OE1	2.09	0.52
6:E6:39:THR:HG23	6:E6:93:GLU:OE1	2.09	0.52
6:F6:87:TYR:HH	6:F6:89:ARG:HG2	1.72	0.52
6:F6:124:PHE:CE2	6:F6:154:LEU:HD22	2.44	0.52
6:F6:317:PHE:HD1	6:F6:424:ASN:OD1	1.92	0.52
6:F6:485:ALA:HB3	7:E7:94:ARG:NH1	2.24	0.52
1:A1:22:HIS:CG	1:A1:69:SER:HG	2.28	0.52
1:A1:59:HIS:ND1	1:A1:139:SER:OG	2.41	0.52
2:D2:39:PHE:CE1	5:H5:5:PHE:HB2	2.44	0.52
2:F2:8:TYR:CE1	3:A3:93:ILE:HD11	2.44	0.52
3:A3:180:SER:O	3:A3:196:ALA:HA	2.09	0.52
3:D3:180:SER:O	3:D3:196:ALA:HA	2.09	0.52
3:E3:75:GLU:HG3	6:E6:320:GLN:NE2	2.24	0.52
3:E3:176:MET:HB3	3:E3:198:PHE:HB3	1.89	0.52
5:C5:81:GLY:O	5:C5:86:LEU:N	2.41	0.52
5:D5:103:SER:N	5:D5:164:VAL:HG21	2.24	0.52
5:E5:45:ARG:NH2	5:F5:45:ARG:NH1	2.57	0.52
5:F5:321:LYS:NZ	5:G5:381:ARG:NH2	2.57	0.52
5:H5:321:LYS:NZ	5:I5:381:ARG:NH2	2.58	0.52
6:C6:327:GLN:HG2	6:C6:364:LEU:HA	1.90	0.52
6:E6:244:GLN:N	6:E6:302:ARG:HH12	2.06	0.52
6:E6:293:ARG:NH1	6:E6:370:ASP:O	2.42	0.52
7:C7:24:SER:C	7:C7:26:LYS:H	2.11	0.52
2:A2:39:PHE:CE1	5:B5:5:PHE:HB2	2.44	0.52
2:D2:114:TYR:HB2	5:I5:328:ASP:HB3	1.91	0.52
3:B3:103:GLN:HG3	5:A5:179:GLU:OE2	2.09	0.52
4:D4:109:MET:HE2	4:D4:109:MET:HA	1.91	0.52
4:E4:69:HIS:NE2	5:J5:75:ASP:OD1	2.42	0.52
4:F4:26:LEU:HD11	4:F4:39:MET:SD	2.49	0.52
5:A5:372:LEU:HD23	5:A5:382:VAL:HG22	1.90	0.52
5:D5:348:ASP:HA	5:D5:381:ARG:HA	1.92	0.52
5:G5:63:LEU:O	5:G5:67:LEU:HD23	2.09	0.52
5:J5:42:ASP:O	5:J5:46:ILE:HG13	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J5:194:GLU:OE1	5:J5:202:GLY:HA3	2.09	0.52
5:J5:320:GLN:HB3	5:J5:327:ILE:HG23	1.90	0.52
5:K5:66:ASN:OD1	5:K5:72:ASN:HA	2.10	0.52
5:K5:372:LEU:HD23	5:K5:382:VAL:HG22	1.90	0.52
5:L5:113:THR:OG1	5:L5:121:ASN:HA	2.08	0.52
5:L5:219:VAL:H	5:L5:234:SER:HB3	1.73	0.52
5:L5:286:ASP:OD1	5:L5:286:ASP:N	2.42	0.52
6:D6:123:SER:OG	6:D6:194:ASP:HA	2.10	0.52
6:D6:293:ARG:NH1	6:D6:370:ASP:O	2.42	0.52
7:B7:24:SER:C	7:B7:26:LYS:H	2.11	0.52
7:D7:89:ILE:HG22	7:D7:90:LYS:H	1.74	0.52
2:D2:15:GLN:NE2	7:D7:38:SER:HA	2.24	0.52
2:E2:143:LYS:HD2	5:J5:198:GLN:OE1	2.10	0.52
3:C3:231:GLN:NE2	4:B4:4:ILE:HG23	2.24	0.52
3:E3:103:GLN:HG3	5:G5:179:GLU:OE1	2.09	0.52
3:E3:180:SER:O	3:E3:196:ALA:HA	2.09	0.52
4:B4:59:LYS:HZ1	5:C5:72:ASN:HA	1.75	0.52
5:C5:39:GLU:OE2	7:B7:34:THR:HG23	2.09	0.52
5:D5:194:GLU:OE1	5:D5:202:GLY:HA3	2.09	0.52
5:E5:240:ASN:OD1	5:E5:241:GLY:N	2.42	0.52
5:G5:332:ILE:HD11	5:G5:356:SER:HB3	1.91	0.52
5:H5:73:THR:HG22	5:H5:186:ARG:NH2	2.25	0.52
5:K5:30:TYR:O	7:F7:18:LYS:NZ	2.42	0.52
5:K5:63:LEU:O	5:K5:67:LEU:HD23	2.09	0.52
5:K5:214:VAL:HA	5:K5:258:GLY:O	2.10	0.52
5:K5:328:ASP:OD2	5:K5:328:ASP:N	2.39	0.52
6:A6:123:SER:OG	6:A6:194:ASP:HA	2.10	0.52
6:C6:491:ILE:HB	6:D6:10:VAL:HG22	1.90	0.52
6:F6:123:SER:OG	6:F6:194:ASP:HA	2.10	0.52
7:E7:38:SER:HB2	7:E7:50:ASN:HD22	1.75	0.52
7:F7:89:ILE:HG22	7:F7:90:LYS:H	1.74	0.52
2:A2:163:GLY:N	2:A2:167:THR:O	2.43	0.52
2:C2:143:LYS:HD2	5:F5:198:GLN:OE1	2.10	0.52
2:E2:163:GLY:N	2:E2:167:THR:O	2.43	0.52
2:F2:137:TYR:HB2	2:F2:140:SER:HB2	1.92	0.52
3:A3:103:GLN:HB2	5:K5:144:TRP:HB3	1.92	0.52
3:E3:28:PHE:HB3	3:E3:69:VAL:HG22	1.90	0.52
3:E3:106:GLN:NE2	5:G5:143:LEU:HD13	2.24	0.52
4:A4:26:LEU:HD11	4:A4:39:MET:SD	2.49	0.52
4:B4:106:PRO:O	4:B4:110:ILE:HG12	2.09	0.52
5:A5:221:ASP:CB	5:A5:252:MET:HG2	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E5:372:LEU:HD23	5:E5:382:VAL:HG22	1.90	0.52
5:F5:314:VAL:HG21	5:F5:397:VAL:HG23	1.92	0.52
5:K5:199:SER:O	5:K5:203:SER:N	2.42	0.52
5:L5:77:GLN:O	5:L5:80:ILE:HG22	2.09	0.52
5:L5:157:GLN:HB2	5:L5:160:PRO:HG3	1.92	0.52
6:A6:293:ARG:NH1	6:A6:370:ASP:O	2.42	0.52
6:D6:89:ARG:NE	6:D6:220:ALA:O	2.37	0.52
1:B1:57:GLY:O	1:B1:59:HIS:ND1	2.36	0.52
1:E1:14:THR:OG1	1:E1:19:THR:HG22	2.09	0.52
2:A2:50:ASP:O	2:A2:122:ARG:NH2	2.43	0.52
2:E2:14:LYS:HG3	7:E7:42:ASP:OD1	2.10	0.52
2:F2:114:TYR:HB2	5:A5:328:ASP:HB3	1.90	0.52
4:A4:106:PRO:O	4:A4:110:ILE:HG12	2.09	0.52
4:E4:26:LEU:HD11	4:E4:39:MET:SD	2.49	0.52
5:E5:102:MET:HG3	5:E5:130:VAL:CG2	2.40	0.52
5:F5:219:VAL:H	5:F5:234:SER:HB3	1.74	0.52
5:F5:312:LEU:HD11	5:F5:347:VAL:HG21	1.90	0.52
5:K5:264:ILE:O	5:K5:268:VAL:HG23	2.10	0.52
6:C6:325:THR:HA	6:C6:373:ASP:OD2	2.09	0.52
6:E6:124:PHE:CE2	6:E6:154:LEU:HD22	2.44	0.52
7:C7:74:VAL:O	7:C7:80:VAL:HG21	2.10	0.52
7:D7:38:SER:HB2	7:D7:50:ASN:HD22	1.75	0.52
2:F2:163:GLY:N	2:F2:167:THR:O	2.43	0.52
3:D3:28:PHE:HB3	3:D3:69:VAL:HG22	1.91	0.52
3:E3:121:ALA:HA	7:C7:105:ILE:HD11	1.91	0.52
3:F3:28:PHE:HB3	3:F3:69:VAL:HG22	1.91	0.52
5:A5:252:MET:HE3	5:A5:272:ARG:HD2	1.92	0.52
5:D5:314:VAL:HG21	5:D5:397:VAL:HG23	1.92	0.52
5:E5:96:TRP:CG	5:E5:173:ALA:HB2	2.45	0.52
5:H5:286:ASP:N	5:H5:286:ASP:OD1	2.43	0.52
5:I5:69:PRO:HA	5:I5:80:ILE:HG21	1.91	0.52
5:I5:89:LEU:HB2	5:I5:180:GLU:OE2	2.10	0.52
5:I5:279:SER:N	5:I5:305:ASP:OD1	2.42	0.52
6:A6:325:THR:HA	6:A6:373:ASP:OD2	2.09	0.52
6:E6:184:SER:OG	6:E6:186:LEU:N	2.41	0.52
6:F6:23:ASN:OD1	6:F6:24:MET:N	2.37	0.52
7:D7:71:GLU:HG3	7:D7:83:VAL:HG21	1.92	0.52
7:F7:74:VAL:O	7:F7:80:VAL:HG21	2.10	0.52
1:D1:14:THR:OG1	1:D1:19:THR:HG22	2.09	0.52
2:B2:15:GLN:HE21	7:B7:37:LYS:C	2.10	0.52
2:C2:50:ASP:O	2:C2:122:ARG:NH2	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:137:TYR:HB2	2:D2:140:SER:HB2	1.92	0.52
3:E3:233:PRO:HB2	4:D4:103:PHE:HD2	1.75	0.52
5:A5:381:ARG:NE	5:L5:321:LYS:HE3	2.25	0.52
5:C5:25:GLY:O	5:C5:29:ILE:HD12	2.08	0.52
5:C5:258:GLY:H	5:C5:306:ARG:HH11	1.56	0.52
5:D5:157:GLN:HB2	5:D5:160:PRO:HG3	1.90	0.52
5:E5:292:ASN:O	5:E5:294:ASP:N	2.43	0.52
5:H5:219:VAL:H	5:H5:234:SER:HB3	1.73	0.52
6:B6:39:THR:HG23	6:B6:93:GLU:OE1	2.09	0.52
7:B7:74:VAL:O	7:B7:80:VAL:HG21	2.09	0.52
1:A1:14:THR:O	1:A1:89:GLY:HA3	2.11	0.52
1:A1:57:GLY:O	1:A1:59:HIS:ND1	2.36	0.52
2:B2:163:GLY:N	2:B2:167:THR:O	2.43	0.52
2:C2:39:PHE:CE1	5:F5:5:PHE:HB2	2.45	0.52
3:D3:144:LYS:O	3:D3:149:LYS:NZ	2.33	0.52
3:E3:215:SER:HG	3:E3:217:SER:HG	1.49	0.52
4:C4:59:LYS:HG3	5:E5:65:SER:OG	2.10	0.52
5:A5:81:GLY:O	5:A5:86:LEU:N	2.43	0.52
5:A5:381:ARG:NH2	5:L5:321:LYS:NZ	2.58	0.52
5:C5:36:THR:O	5:C5:36:THR:OG1	2.27	0.52
5:E5:69:PRO:HA	5:E5:80:ILE:HG21	1.92	0.52
5:G5:36:THR:O	5:G5:36:THR:OG1	2.28	0.52
5:I5:264:ILE:O	5:I5:268:VAL:HG23	2.11	0.52
6:A6:89:ARG:NE	6:A6:220:ALA:O	2.37	0.52
6:B6:491:ILE:HB	6:C6:10:VAL:HG22	1.90	0.52
6:F6:291:ASN:HA	6:F6:375:VAL:HG11	1.92	0.52
6:F6:325:THR:HA	6:F6:373:ASP:OD2	2.09	0.52
7:F7:38:SER:HB2	7:F7:50:ASN:HD22	1.75	0.52
1:D1:59:HIS:ND1	1:D1:139:SER:OG	2.41	0.51
1:D1:63:ILE:O	1:D1:131:THR:HA	2.11	0.51
1:E1:59:HIS:ND1	1:E1:139:SER:OG	2.41	0.51
2:A2:13:ILE:HG21	5:A5:38:GLN:HE21	1.74	0.51
2:B2:50:ASP:O	2:B2:122:ARG:NH2	2.43	0.51
3:C3:232:ASN:ND2	4:B4:18:GLU:HB2	2.25	0.51
5:A5:96:TRP:CG	5:A5:173:ALA:HB2	2.45	0.51
5:B5:194:GLU:OE1	5:B5:202:GLY:HA3	2.10	0.51
5:G5:178:GLU:OE1	5:G5:178:GLU:N	2.32	0.51
5:G5:264:ILE:O	5:G5:268:VAL:HG23	2.10	0.51
5:J5:103:SER:N	5:J5:164:VAL:HG21	2.24	0.51
5:K5:96:TRP:CG	5:K5:173:ALA:HB2	2.45	0.51
5:K5:196:PRO:HG3	5:L5:198:GLN:NE2	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:123:SER:OG	6:B6:194:ASP:HA	2.10	0.51
6:F6:116:LEU:HA	6:F6:119:ILE:HD12	1.92	0.51
7:E7:89:ILE:HG22	7:E7:90:LYS:H	1.74	0.51
2:B2:39:PHE:CE1	5:D5:5:PHE:HB2	2.45	0.51
2:D2:163:GLY:N	2:D2:167:THR:O	2.43	0.51
3:E3:32:ARG:HG2	3:E3:33:GLU:H	1.75	0.51
5:A5:39:GLU:OE2	7:A7:35:ARG:N	2.43	0.51
5:B5:157:GLN:HB2	5:B5:160:PRO:HG3	1.92	0.51
5:B5:312:LEU:HD11	5:B5:347:VAL:HG21	1.91	0.51
5:C5:376:ASP:OD1	5:C5:376:ASP:N	2.42	0.51
5:F5:161:GLU:HG2	5:F5:162:ILE:HG13	1.92	0.51
5:F5:275:ASN:OD1	5:F5:276:THR:N	2.44	0.51
5:G5:207:LYS:HD2	5:G5:271:HIS:NE2	2.26	0.51
5:H5:113:THR:OG1	5:H5:121:ASN:HA	2.10	0.51
5:H5:314:VAL:HG21	5:H5:397:VAL:HG23	1.91	0.51
6:A6:184:SER:OG	6:A6:186:LEU:N	2.41	0.51
6:C6:291:ASN:HA	6:C6:375:VAL:HG11	1.92	0.51
6:D6:325:THR:HA	6:D6:373:ASP:OD2	2.09	0.51
6:E6:116:LEU:HA	6:E6:119:ILE:HD12	1.93	0.51
6:F6:75:ASN:O	6:F6:78:SER:OG	2.24	0.51
1:B1:14:THR:O	1:B1:89:GLY:HA3	2.10	0.51
1:D1:2:SER:N	1:E1:22:HIS:HD1	2.08	0.51
2:E2:60:ILE:HD12	5:I5:83:LEU:HD11	1.92	0.51
3:E3:139:SER:HB3	3:E3:149:LYS:HG2	1.93	0.51
5:A5:36:THR:O	5:A5:36:THR:OG1	2.28	0.51
5:A5:102:MET:HG3	5:A5:130:VAL:CG2	2.39	0.51
5:B5:286:ASP:N	5:B5:286:ASP:OD1	2.42	0.51
5:C5:272:ARG:NH2	5:C5:275:ASN:O	2.44	0.51
5:D5:199:SER:O	5:D5:199:SER:OG	2.26	0.51
5:E5:214:VAL:HA	5:E5:258:GLY:O	2.10	0.51
5:G5:279:SER:N	5:G5:305:ASP:OD1	2.41	0.51
5:H5:199:SER:O	5:H5:199:SER:OG	2.27	0.51
5:J5:113:THR:OG1	5:J5:121:ASN:HA	2.11	0.51
5:K5:376:ASP:N	5:K5:376:ASP:OD1	2.42	0.51
6:A6:116:LEU:HA	6:A6:119:ILE:HD12	1.92	0.51
6:A6:291:ASN:HA	6:A6:375:VAL:HG11	1.92	0.51
6:C6:202:ASN:O	6:C6:205:SER:OG	2.19	0.51
6:D6:4:ILE:HD11	7:B7:39:TRP:NE1	2.26	0.51
7:A7:71:GLU:HG3	7:A7:83:VAL:HG21	1.92	0.51
7:A7:74:VAL:O	7:A7:80:VAL:HG21	2.09	0.51
7:C7:71:GLU:HG3	7:C7:83:VAL:HG21	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A1:63:ILE:O	1:A1:131:THR:HA	2.11	0.51
3:C3:248:VAL:HG13	4:B4:111:GLN:HG2	1.91	0.51
3:F3:114:GLN:HE21	5:G5:33:ASP:CG	2.14	0.51
4:A4:59:LYS:HG3	5:A5:65:SER:OG	2.11	0.51
4:F4:59:LYS:HG3	5:K5:65:SER:OG	2.10	0.51
5:B5:66:ASN:HB3	5:B5:76:MET:HG2	1.93	0.51
5:C5:196:PRO:HG3	5:D5:198:GLN:NE2	2.25	0.51
5:E5:66:ASN:OD1	5:E5:72:ASN:HA	2.10	0.51
5:E5:264:ILE:O	5:E5:268:VAL:HG23	2.10	0.51
5:F5:270:LYS:NZ	5:F5:284:TYR:OH	2.33	0.51
5:I5:124:LEU:HD13	5:I5:139:PHE:CD1	2.46	0.51
5:J5:122:TRP:HB3	5:J5:139:PHE:HB3	1.93	0.51
6:D6:291:ASN:HA	6:D6:375:VAL:HG11	1.92	0.51
6:E6:291:ASN:HA	6:E6:375:VAL:HG11	1.92	0.51
1:D1:110:THR:HB	1:D1:137:ARG:HB3	1.92	0.51
1:F1:14:THR:O	1:F1:89:GLY:HA3	2.10	0.51
1:F1:63:ILE:O	1:F1:131:THR:HA	2.11	0.51
2:A2:60:ILE:HD12	5:A5:83:LEU:HD11	1.93	0.51
2:B2:13:ILE:HG21	5:C5:38:GLN:HE21	1.75	0.51
2:D2:60:ILE:HD12	5:G5:83:LEU:HD11	1.92	0.51
3:C3:46:LEU:HD23	3:D3:201:ILE:HG23	1.92	0.51
3:D3:117:ASP:OD2	7:B7:1:MET:HG2	2.11	0.51
5:E5:218:GLN:CD	5:E5:235:ASN:HD21	2.14	0.51
5:F5:194:GLU:OE1	5:F5:202:GLY:HA3	2.10	0.51
5:I5:329:THR:O	5:I5:333:LYS:NZ	2.23	0.51
5:L5:42:ASP:O	5:L5:46:ILE:HG13	2.11	0.51
6:B6:23:ASN:OD1	6:B6:24:MET:N	2.37	0.51
6:B6:291:ASN:HA	6:B6:375:VAL:HG11	1.92	0.51
6:E6:123:SER:OG	6:E6:194:ASP:HA	2.10	0.51
7:C7:31:THR:O	7:C7:35:ARG:HG3	2.11	0.51
7:D7:74:VAL:O	7:D7:80:VAL:HG21	2.10	0.51
1:C1:50:ILE:O	3:D3:70:SER:OG	2.14	0.51
1:E1:63:ILE:O	1:E1:131:THR:HA	2.11	0.51
2:A2:48:ASP:HB3	5:A5:78:GLN:CD	2.29	0.51
2:E2:13:ILE:HG21	5:I5:38:GLN:HE21	1.75	0.51
2:E2:15:GLN:NE2	7:E7:38:SER:HA	2.25	0.51
2:E2:50:ASP:O	2:E2:122:ARG:NH2	2.43	0.51
3:C3:231:GLN:HE21	4:B4:4:ILE:HG23	1.75	0.51
3:D3:32:ARG:HG2	3:D3:33:GLU:H	1.75	0.51
4:D4:34:VAL:HG21	5:G5:62:TRP:CD1	2.45	0.51
5:A5:150:ILE:HG22	5:A5:151:SER:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:376:ASP:OD1	5:A5:376:ASP:N	2.43	0.51
5:D5:346:TYR:HE1	5:D5:383:PHE:CD2	2.28	0.51
7:B7:71:GLU:HG3	7:B7:83:VAL:HG21	1.92	0.51
1:A1:14:THR:O	1:A1:15:LEU:HD23	2.11	0.51
1:A1:25:GLN:NE2	1:B1:124:GLN:OE1	2.44	0.51
1:A1:110:THR:HB	1:A1:137:ARG:HB3	1.92	0.51
1:B1:37:LYS:NZ	1:C1:79:LYS:O	2.44	0.51
1:C1:63:ILE:O	1:C1:131:THR:HA	2.11	0.51
1:E1:14:THR:O	1:E1:15:LEU:HD23	2.11	0.51
3:A3:248:VAL:HG13	4:F4:111:GLN:HG2	1.93	0.51
3:B3:240:GLU:HG3	4:A4:2:ASN:OD1	2.11	0.51
4:C4:109:MET:HE2	4:C4:109:MET:HA	1.93	0.51
5:B5:103:SER:N	5:B5:164:VAL:HG21	2.26	0.51
5:C5:108:LEU:HB3	5:C5:112:TYR:CE1	2.46	0.51
5:D5:42:ASP:O	5:D5:46:ILE:HG13	2.10	0.51
5:E5:233:SER:OG	5:E5:234:SER:N	2.44	0.51
5:F5:321:LYS:HE3	5:G5:381:ARG:NE	2.25	0.51
5:H5:161:GLU:HG2	5:H5:162:ILE:HG13	1.92	0.51
5:K5:150:ILE:HG22	5:K5:151:SER:O	2.11	0.51
5:K5:218:GLN:CD	5:K5:235:ASN:HD21	2.14	0.51
5:L5:161:GLU:HG2	5:L5:162:ILE:HG13	1.92	0.51
6:B6:75:ASN:O	6:B6:78:SER:OG	2.24	0.51
6:B6:116:LEU:HA	6:B6:119:ILE:HD12	1.93	0.51
6:C6:123:SER:OG	6:C6:194:ASP:HA	2.10	0.51
1:C1:57:GLY:O	1:C1:59:HIS:ND1	2.36	0.51
1:C1:110:THR:HB	1:C1:137:ARG:HB3	1.92	0.51
1:E1:14:THR:O	1:E1:89:GLY:HA3	2.11	0.51
1:F1:14:THR:O	1:F1:15:LEU:HD23	2.11	0.51
2:C2:15:GLN:HE22	7:C7:38:SER:HA	1.76	0.51
3:A3:231:GLN:NE2	4:F4:4:ILE:HG23	2.26	0.51
3:B3:139:SER:HB3	3:B3:149:LYS:HG2	1.93	0.51
3:E3:221:LYS:HD3	5:G5:51:LEU:HD11	1.93	0.51
5:B5:73:THR:HG22	5:B5:186:ARG:NH2	2.25	0.51
5:B5:113:THR:OG1	5:B5:121:ASN:HA	2.10	0.51
5:B5:161:GLU:HG2	5:B5:162:ILE:HG13	1.92	0.51
5:B5:314:VAL:HG21	5:B5:397:VAL:HG23	1.91	0.51
5:C5:89:LEU:HB2	5:C5:180:GLU:OE1	2.10	0.51
5:C5:344:GLY:HA2	5:C5:383:PHE:HE2	1.75	0.51
5:D5:201:ILE:HD12	5:D5:201:ILE:H	1.76	0.51
5:G5:292:ASN:O	5:G5:294:ASP:N	2.43	0.51
5:I5:207:LYS:HD2	5:I5:271:HIS:NE2	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I5:272:ARG:NH2	5:I5:275:ASN:O	2.43	0.51
5:I5:328:ASP:OD2	5:I5:328:ASP:N	2.39	0.51
6:E6:325:THR:HA	6:E6:373:ASP:OD2	2.09	0.51
7:A7:31:THR:O	7:A7:35:ARG:HG3	2.11	0.51
7:F7:71:GLU:HG3	7:F7:83:VAL:HG21	1.92	0.51
1:C1:14:THR:O	1:C1:15:LEU:HD23	2.11	0.51
1:F1:110:THR:HB	1:F1:137:ARG:HB3	1.92	0.51
2:B2:137:TYR:HB2	2:B2:140:SER:HB2	1.92	0.51
2:F2:143:LYS:HD2	5:L5:198:GLN:OE1	2.10	0.51
3:A3:32:ARG:HG2	3:A3:33:GLU:H	1.75	0.51
3:A3:102:GLN:C	3:A3:104:GLN:H	2.15	0.51
3:A3:185:ARG:HE	3:A3:192:THR:HG22	1.76	0.51
3:F3:139:SER:HB3	3:F3:149:LYS:HG2	1.93	0.51
4:C4:62:LEU:HA	4:C4:78:VAL:O	2.11	0.51
5:A5:199:SER:O	5:A5:203:SER:N	2.43	0.51
5:A5:207:LYS:HD2	5:A5:271:HIS:NE2	2.26	0.51
5:F5:157:GLN:HB2	5:F5:160:PRO:HG3	1.92	0.51
5:G5:38:GLN:HG3	7:D7:43:ASN:HD22	1.76	0.51
5:G5:69:PRO:HA	5:G5:80:ILE:HG21	1.92	0.51
5:L5:33:ASP:H	5:L5:34:ILE:HD12	1.76	0.51
6:B6:89:ARG:NE	6:B6:220:ALA:O	2.38	0.51
6:B6:325:THR:HA	6:B6:373:ASP:OD2	2.09	0.51
7:C7:38:SER:HB2	7:C7:50:ASN:HD22	1.75	0.51
1:B1:14:THR:O	1:B1:15:LEU:HD23	2.11	0.51
1:D1:14:THR:O	1:D1:15:LEU:HD23	2.11	0.51
1:D1:14:THR:O	1:D1:89:GLY:HA3	2.10	0.51
1:E1:19:THR:HG21	6:E6:409:THR:OG1	2.11	0.51
2:D2:143:LYS:HD2	5:H5:198:GLN:OE1	2.11	0.51
3:B3:32:ARG:HG2	3:B3:33:GLU:H	1.75	0.51
3:B3:185:ARG:HE	3:B3:192:THR:HG22	1.76	0.51
3:F3:111:ILE:HD11	4:E4:84:ASN:HB2	1.94	0.51
3:F3:185:ARG:HE	3:F3:192:THR:HG22	1.76	0.51
4:D4:62:LEU:HA	4:D4:78:VAL:O	2.11	0.51
4:D4:69:HIS:NE2	5:H5:75:ASP:OD1	2.44	0.51
5:A5:264:ILE:O	5:A5:268:VAL:HG23	2.11	0.51
5:G5:45:ARG:NH2	5:H5:45:ARG:HE	2.07	0.51
5:G5:329:THR:O	5:G5:333:LYS:NZ	2.23	0.51
5:H5:157:GLN:HB2	5:H5:160:PRO:HG3	1.92	0.51
5:I5:196:PRO:HG3	5:J5:198:GLN:NE2	2.26	0.51
5:J5:33:ASP:H	5:J5:34:ILE:HD12	1.77	0.51
5:J5:286:ASP:N	5:J5:286:ASP:OD1	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J5:314:VAL:HG21	5:J5:397:VAL:HG23	1.92	0.51
5:L5:275:ASN:OD1	5:L5:276:THR:N	2.44	0.51
7:F7:31:THR:O	7:F7:35:ARG:HG3	2.11	0.51
2:D2:50:ASP:O	2:D2:122:ARG:NH2	2.43	0.50
3:D3:139:SER:HB3	3:D3:149:LYS:HG2	1.93	0.50
3:F3:102:GLN:C	3:F3:104:GLN:H	2.15	0.50
3:F3:154:MET:HE2	3:F3:154:MET:HA	1.93	0.50
5:B5:328:ASP:OD1	5:B5:328:ASP:N	2.43	0.50
5:C5:214:VAL:HA	5:C5:258:GLY:O	2.10	0.50
5:E5:63:LEU:O	5:E5:67:LEU:HD23	2.11	0.50
5:E5:150:ILE:HG22	5:E5:151:SER:O	2.11	0.50
5:E5:346:TYR:HD2	5:E5:381:ARG:NH2	2.10	0.50
5:G5:81:GLY:O	5:G5:86:LEU:N	2.43	0.50
5:G5:130:VAL:HB	5:G5:135:ASN:OD1	2.11	0.50
5:K5:30:TYR:OH	5:L5:45:ARG:HD2	2.10	0.50
5:L5:314:VAL:HG21	5:L5:397:VAL:HG23	1.92	0.50
6:D6:116:LEU:HA	6:D6:119:ILE:HD12	1.93	0.50
7:C7:35:ARG:NH1	7:C7:76:GLN:O	2.28	0.50
1:D1:57:GLY:O	1:D1:59:HIS:ND1	2.36	0.50
2:C2:163:GLY:N	2:C2:167:THR:O	2.43	0.50
3:B3:212:SER:OG	3:B3:213:SER:N	2.45	0.50
3:F3:32:ARG:HG2	3:F3:33:GLU:H	1.75	0.50
4:E4:109:MET:HE2	4:E4:109:MET:HA	1.92	0.50
5:C5:240:ASN:OD1	5:C5:241:GLY:N	2.45	0.50
5:C5:292:ASN:O	5:C5:294:ASP:N	2.44	0.50
5:D5:384:SER:OG	5:D5:388:GLY:O	2.27	0.50
5:I5:240:ASN:OD1	5:I5:241:GLY:N	2.45	0.50
7:B7:38:SER:HB2	7:B7:50:ASN:HD22	1.75	0.50
7:D7:31:THR:O	7:D7:35:ARG:HG3	2.11	0.50
1:C1:2:SER:N	1:D1:66:GLN:OE1	2.44	0.50
1:C1:14:THR:O	1:C1:89:GLY:HA3	2.11	0.50
2:C2:137:TYR:HB2	2:C2:140:SER:HB2	1.92	0.50
2:F2:50:ASP:O	2:F2:122:ARG:NH2	2.43	0.50
2:F2:60:ILE:HD12	5:K5:83:LEU:HD11	1.94	0.50
3:C3:11:LEU:HD22	3:D3:144:LYS:NZ	2.26	0.50
4:E4:62:LEU:HA	4:E4:78:VAL:O	2.11	0.50
4:F4:4:ILE:HD11	4:F4:17:LEU:HD21	1.93	0.50
5:C5:264:ILE:O	5:C5:268:VAL:HG23	2.10	0.50
5:E5:199:SER:O	5:E5:203:SER:N	2.42	0.50
5:G5:260:SER:HB2	5:G5:263:ASP:HB2	1.94	0.50
5:H5:33:ASP:H	5:H5:34:ILE:HD12	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K5:207:LYS:HD2	5:K5:271:HIS:NE2	2.26	0.50
5:L5:122:TRP:HB3	5:L5:139:PHE:HB3	1.93	0.50
5:L5:201:ILE:H	5:L5:201:ILE:HD12	1.76	0.50
7:A7:38:SER:HB2	7:A7:50:ASN:HD22	1.75	0.50
7:E7:31:THR:O	7:E7:35:ARG:HG3	2.11	0.50
1:B1:40:ARG:NH1	1:C1:135:GLU:O	2.44	0.50
2:F2:15:GLN:NE2	7:F7:38:SER:HA	2.26	0.50
3:A3:169:ASN:HD21	3:B3:185:ARG:HD2	1.76	0.50
3:D3:185:ARG:HE	3:D3:192:THR:HG22	1.76	0.50
4:E4:4:ILE:HD11	4:E4:17:LEU:HD21	1.93	0.50
4:E4:71:ASN:HD21	5:J5:90:PRO:CA	2.16	0.50
5:A5:69:PRO:HA	5:A5:80:ILE:HG21	1.93	0.50
5:D5:113:THR:OG1	5:D5:121:ASN:HA	2.11	0.50
5:F5:188:ARG:O	5:F5:192:SER:OG	2.24	0.50
5:H5:116:ASP:N	5:H5:154:SER:O	2.27	0.50
5:K5:69:PRO:HA	5:K5:80:ILE:HG21	1.93	0.50
5:L5:199:SER:O	5:L5:199:SER:OG	2.27	0.50
6:A6:489:GLU:O	6:B6:8:ILE:HG13	2.12	0.50
6:B6:202:ASN:O	6:B6:205:SER:OG	2.19	0.50
6:C6:116:LEU:HA	6:C6:119:ILE:HD12	1.92	0.50
6:D6:23:ASN:OD1	6:D6:24:MET:N	2.37	0.50
6:D6:489:GLU:O	6:E6:8:ILE:HG13	2.12	0.50
6:E6:275:LYS:HG3	6:E6:282:TRP:CD2	2.47	0.50
6:E6:489:GLU:O	6:F6:8:ILE:HG13	2.12	0.50
7:E7:51:ILE:CG2	7:E7:69:GLU:HB3	2.42	0.50
3:A3:154:MET:HE2	3:A3:154:MET:HA	1.94	0.50
3:E3:102:GLN:C	3:E3:104:GLN:H	2.15	0.50
4:D4:59:LYS:HG3	5:G5:65:SER:OG	2.11	0.50
4:F4:62:LEU:HA	4:F4:78:VAL:O	2.11	0.50
5:C5:150:ILE:HG22	5:C5:151:SER:O	2.12	0.50
5:C5:207:LYS:HD2	5:C5:271:HIS:NE2	2.26	0.50
5:C5:211:ILE:HD12	5:C5:263:ASP:HB3	1.94	0.50
5:D5:122:TRP:HB3	5:D5:139:PHE:HB3	1.93	0.50
5:D5:353:TYR:CD1	5:D5:368:LEU:HD23	2.47	0.50
5:E5:196:PRO:HG3	5:F5:198:GLN:NE2	2.26	0.50
5:G5:150:ILE:HG22	5:G5:151:SER:O	2.12	0.50
5:H5:66:ASN:HB3	5:H5:76:MET:HG2	1.92	0.50
7:D7:74:VAL:HG21	7:D7:100:LEU:HD21	1.94	0.50
1:B1:63:ILE:O	1:B1:131:THR:HA	2.11	0.50
2:A2:14:LYS:HG3	7:A7:42:ASP:OD1	2.11	0.50
2:B2:60:ILE:HD12	5:C5:83:LEU:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:185:ARG:HE	3:C3:192:THR:HG22	1.76	0.50
3:F3:144:LYS:O	3:F3:149:LYS:NZ	2.33	0.50
3:F3:231:GLN:NE2	4:E4:4:ILE:HG23	2.27	0.50
4:C4:4:ILE:HD11	4:C4:17:LEU:HD21	1.93	0.50
4:E4:59:LYS:HG3	5:I5:65:SER:OG	2.11	0.50
5:D5:116:ASP:N	5:D5:154:SER:O	2.27	0.50
5:G5:34:ILE:HD11	5:G5:42:ASP:OD2	2.12	0.50
5:H5:103:SER:N	5:H5:164:VAL:HG21	2.26	0.50
5:I5:102:MET:HG3	5:I5:130:VAL:CG2	2.42	0.50
5:K5:243:GLU:OE1	5:K5:243:GLU:N	2.45	0.50
6:A6:87:TYR:HH	6:A6:89:ARG:HG2	1.76	0.50
6:D6:75:ASN:O	6:D6:78:SER:OG	2.24	0.50
7:C7:74:VAL:HG21	7:C7:100:LEU:HD21	1.94	0.50
7:D7:51:ILE:CG2	7:D7:69:GLU:HB3	2.42	0.50
7:E7:74:VAL:HG21	7:E7:100:LEU:HD21	1.94	0.50
7:E7:74:VAL:O	7:E7:80:VAL:HG21	2.10	0.50
1:E1:110:THR:CG2	3:E3:74:VAL:HG21	2.40	0.50
1:E1:110:THR:HB	1:E1:137:ARG:HB3	1.92	0.50
2:A2:143:LYS:HD2	5:B5:198:GLN:OE1	2.12	0.50
2:B2:114:TYR:HB2	5:E5:328:ASP:HB3	1.94	0.50
3:F3:240:GLU:HG3	4:E4:2:ASN:OD1	2.11	0.50
5:B5:33:ASP:H	5:B5:34:ILE:HD12	1.76	0.50
5:C5:243:GLU:OE1	5:C5:243:GLU:N	2.45	0.50
5:D5:381:ARG:HH22	5:E5:321:LYS:HG2	1.70	0.50
5:E5:243:GLU:OE1	5:E5:243:GLU:N	2.45	0.50
5:I5:199:SER:O	5:I5:203:SER:N	2.43	0.50
5:I5:344:GLY:HA2	5:I5:383:PHE:HE2	1.76	0.50
6:A6:320:GLN:OE1	6:A6:320:GLN:N	2.45	0.50
6:B6:489:GLU:O	6:C6:8:ILE:HG13	2.12	0.50
6:E6:75:ASN:O	6:E6:78:SER:OG	2.24	0.50
7:F7:74:VAL:HG21	7:F7:100:LEU:HD21	1.94	0.50
1:B1:110:THR:HB	1:B1:137:ARG:HB3	1.92	0.50
1:D1:67:LYS:HG2	1:D1:68:HIS:CE1	2.47	0.50
2:A2:137:TYR:HB2	2:A2:140:SER:HB2	1.92	0.50
3:C3:32:ARG:HG2	3:C3:33:GLU:H	1.75	0.50
3:C3:139:SER:HB3	3:C3:149:LYS:HG2	1.93	0.50
3:C3:212:SER:OG	3:C3:213:SER:N	2.45	0.50
3:D3:102:GLN:C	3:D3:104:GLN:H	2.15	0.50
5:E5:207:LYS:HD2	5:E5:271:HIS:NE2	2.26	0.50
5:G5:376:ASP:N	5:G5:376:ASP:OD1	2.43	0.50
5:H5:5:PHE:HD1	5:H5:10:VAL:HG12	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:320:GLN:N	6:B6:320:GLN:OE1	2.45	0.50
6:C6:275:LYS:HG3	6:C6:282:TRP:CD2	2.47	0.50
6:C6:320:GLN:OE1	6:C6:320:GLN:N	2.45	0.50
7:F7:51:ILE:CG2	7:F7:69:GLU:HB3	2.42	0.50
1:E1:67:LYS:HG2	1:E1:68:HIS:CE1	2.47	0.50
2:A2:9:LEU:HD13	2:A2:17:TYR:HE2	1.77	0.50
3:A3:139:SER:HB3	3:A3:149:LYS:HG2	1.93	0.50
3:A3:212:SER:OG	3:A3:213:SER:N	2.45	0.50
3:C3:102:GLN:C	3:C3:104:GLN:H	2.15	0.50
3:E3:185:ARG:HE	3:E3:192:THR:HG22	1.76	0.50
3:F3:75:GLU:OE1	3:F3:78:GLN:NE2	2.31	0.50
4:B4:62:LEU:HA	4:B4:78:VAL:O	2.11	0.50
5:B5:5:PHE:HD1	5:B5:10:VAL:HG12	1.77	0.50
5:C5:124:LEU:HD13	5:C5:139:PHE:CD1	2.46	0.50
5:G5:196:PRO:HG3	5:H5:198:GLN:NE2	2.27	0.50
5:H5:191:ARG:HH12	5:H5:235:ASN:CB	2.25	0.50
6:A6:92:SER:H	6:A6:221:GLU:HG3	1.77	0.50
6:D6:275:LYS:HG3	6:D6:282:TRP:CD2	2.47	0.50
6:D6:320:GLN:OE1	6:D6:320:GLN:N	2.45	0.50
7:B7:74:VAL:HG21	7:B7:100:LEU:HD21	1.94	0.50
7:E7:71:GLU:HG3	7:E7:83:VAL:HG21	1.92	0.50
1:A1:90:SER:OG	6:A6:412:ASP:OD1	2.21	0.49
1:C1:92:LYS:NZ	6:C6:415:GLU:OE2	2.45	0.49
1:E1:20:PHE:CE2	1:E1:63:ILE:HG21	2.47	0.49
3:A3:243:LEU:HD23	3:A3:248:VAL:HG22	1.94	0.49
5:A5:130:VAL:HB	5:A5:135:ASN:OD1	2.12	0.49
5:A5:243:GLU:N	5:A5:243:GLU:OE1	2.45	0.49
5:C5:233:SER:OG	5:C5:234:SER:N	2.45	0.49
5:H5:77:GLN:O	5:H5:80:ILE:HG22	2.12	0.49
5:K5:45:ARG:HH22	5:L5:45:ARG:NH2	2.09	0.49
5:K5:279:SER:N	5:K5:305:ASP:OD1	2.41	0.49
6:B6:92:SER:H	6:B6:221:GLU:HG3	1.77	0.49
6:E6:320:GLN:N	6:E6:320:GLN:OE1	2.45	0.49
6:F6:122:GLY:HA2	6:F6:195:ILE:HD11	1.94	0.49
1:F1:67:LYS:HG2	1:F1:68:HIS:CE1	2.47	0.49
3:F3:212:SER:OG	3:F3:213:SER:N	2.45	0.49
5:A5:329:THR:O	5:A5:333:LYS:NZ	2.24	0.49
5:C5:332:ILE:HD11	5:C5:356:SER:HB2	1.93	0.49
5:E5:211:ILE:HD12	5:E5:263:ASP:HB3	1.94	0.49
5:G5:233:SER:OG	5:G5:234:SER:N	2.45	0.49
5:I5:270:LYS:HE3	5:I5:271:HIS:CD2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J5:201:ILE:H	5:J5:201:ILE:HD12	1.76	0.49
5:J5:353:TYR:CE2	5:K5:353:TYR:CE2	3.00	0.49
5:K5:49:GLU:OE2	5:L5:53:ARG:NH2	2.31	0.49
6:A6:275:LYS:HG3	6:A6:282:TRP:CD2	2.47	0.49
1:B1:67:LYS:HG2	1:B1:68:HIS:CE1	2.47	0.49
1:C1:67:LYS:HG2	1:C1:68:HIS:CE1	2.47	0.49
2:D2:13:ILE:HG21	5:G5:38:GLN:HE21	1.76	0.49
2:E2:39:PHE:CE1	5:J5:5:PHE:HB2	2.47	0.49
3:B3:233:PRO:HG2	4:A4:17:LEU:HG	1.94	0.49
3:D3:212:SER:OG	3:D3:213:SER:N	2.45	0.49
3:E3:212:SER:OG	3:E3:213:SER:N	2.45	0.49
5:C5:363:TYR:CE2	5:C5:365:VAL:HG13	2.47	0.49
5:D5:66:ASN:CB	5:D5:76:MET:HG2	2.31	0.49
5:D5:275:ASN:OD1	5:D5:276:THR:N	2.45	0.49
5:D5:286:ASP:OD1	5:D5:286:ASP:N	2.44	0.49
5:G5:245:VAL:HB	5:G5:386:TYR:CE2	2.47	0.49
5:H5:42:ASP:HB2	7:D7:14:PHE:CE1	2.47	0.49
5:J5:188:ARG:O	5:J5:192:SER:OG	2.23	0.49
5:K5:240:ASN:OD1	5:K5:241:GLY:N	2.44	0.49
5:L5:208:LEU:HD23	5:L5:256:ILE:HD12	1.94	0.49
1:A1:67:LYS:HG2	1:A1:68:HIS:CE1	2.47	0.49
2:B2:9:LEU:HD13	2:B2:17:TYR:HE2	1.77	0.49
2:D2:9:LEU:HD13	2:D2:17:TYR:HE2	1.77	0.49
3:D3:75:GLU:OE1	3:D3:78:GLN:NE2	2.31	0.49
5:A5:34:ILE:HD11	5:A5:42:ASP:OD2	2.13	0.49
5:A5:292:ASN:O	5:A5:294:ASP:N	2.43	0.49
5:C5:102:MET:HG3	5:C5:130:VAL:CG2	2.41	0.49
5:E5:30:TYR:OH	5:F5:45:ARG:HD2	2.12	0.49
5:F5:103:SER:N	5:F5:164:VAL:HG21	2.27	0.49
5:G5:199:SER:O	5:G5:203:SER:N	2.43	0.49
5:I5:150:ILE:HG22	5:I5:151:SER:O	2.12	0.49
5:J5:275:ASN:OD1	5:J5:276:THR:N	2.45	0.49
5:L5:42:ASP:OD1	5:L5:43:GLY:N	2.45	0.49
6:C6:89:ARG:NE	6:C6:220:ALA:O	2.37	0.49
6:F6:275:LYS:HG3	6:F6:282:TRP:CD2	2.47	0.49
6:F6:320:GLN:OE1	6:F6:320:GLN:N	2.45	0.49
7:A7:74:VAL:HG21	7:A7:100:LEU:HD21	1.94	0.49
7:B7:31:THR:O	7:B7:35:ARG:HG3	2.11	0.49
7:F7:90:LYS:O	7:F7:91:THR:OG1	2.24	0.49
1:F1:19:THR:HG21	6:F6:409:THR:OG1	2.13	0.49
2:E2:9:LEU:HD13	2:E2:17:TYR:HE2	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:114:GLN:HE21	5:I5:33:ASP:CG	2.15	0.49
3:F3:221:LYS:HD3	5:I5:51:LEU:HD11	1.94	0.49
3:F3:243:LEU:HD23	3:F3:248:VAL:HG22	1.94	0.49
4:A4:62:LEU:HA	4:A4:78:VAL:O	2.11	0.49
5:B5:122:TRP:HB3	5:B5:139:PHE:HB3	1.94	0.49
5:D5:353:TYR:CE2	5:E5:353:TYR:HE2	2.30	0.49
5:K5:233:SER:OG	5:K5:234:SER:N	2.44	0.49
6:A6:122:GLY:HA2	6:A6:195:ILE:HD11	1.95	0.49
6:E6:92:SER:H	6:E6:221:GLU:HG3	1.77	0.49
7:C7:51:ILE:CG2	7:C7:69:GLU:HB3	2.42	0.49
1:A1:37:LYS:NZ	1:B1:79:LYS:O	2.46	0.49
1:E1:34:VAL:HG12	1:E1:58:VAL:HG13	1.95	0.49
1:F1:59:HIS:ND1	1:F1:139:SER:OG	2.41	0.49
2:C2:15:GLN:HE21	7:C7:37:LYS:C	2.16	0.49
3:B3:102:GLN:C	3:B3:104:GLN:H	2.15	0.49
3:B3:243:LEU:HD23	3:B3:248:VAL:HG22	1.94	0.49
3:C3:144:LYS:O	3:C3:149:LYS:NZ	2.33	0.49
3:F3:98:PRO:HD3	4:E4:34:VAL:CG2	2.40	0.49
4:A4:4:ILE:HD11	4:A4:17:LEU:HD21	1.93	0.49
4:B4:4:ILE:HD11	4:B4:17:LEU:HD21	1.93	0.49
5:B5:77:GLN:O	5:B5:80:ILE:HG22	2.12	0.49
5:C5:199:SER:O	5:C5:203:SER:N	2.43	0.49
5:F5:33:ASP:H	5:F5:34:ILE:HD12	1.77	0.49
5:H5:45:ARG:NH1	7:D7:14:PHE:CD1	2.80	0.49
5:I5:292:ASN:O	5:I5:294:ASP:N	2.44	0.49
5:J5:321:LYS:HZ2	5:K5:381:ARG:NH2	2.10	0.49
5:K5:25:GLY:O	5:K5:28:GLU:N	2.46	0.49
6:A6:1:MET:HA	6:A6:1:MET:CE	2.43	0.49
6:A6:8:ILE:HG13	6:F6:489:GLU:O	2.12	0.49
6:D6:321:ASN:HA	6:D6:425:GLY:HA3	1.95	0.49
6:E6:144:VAL:HG22	6:E6:149:GLU:HG3	1.94	0.49
6:F6:321:ASN:HA	6:F6:425:GLY:HA3	1.95	0.49
5:A5:180:GLU:H	5:A5:180:GLU:CD	2.16	0.49
5:A5:240:ASN:OD1	5:A5:241:GLY:N	2.45	0.49
5:D5:312:LEU:HD11	5:D5:347:VAL:HG21	1.94	0.49
5:D5:328:ASP:OD1	5:D5:328:ASP:N	2.43	0.49
5:E5:376:ASP:N	5:E5:376:ASP:OD1	2.42	0.49
5:F5:208:LEU:HD23	5:F5:256:ILE:HD12	1.94	0.49
5:G5:214:VAL:HA	5:G5:258:GLY:O	2.13	0.49
5:G5:240:ASN:OD1	5:G5:241:GLY:N	2.45	0.49
5:H5:208:LEU:HD23	5:H5:256:ILE:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I5:25:GLY:O	5:I5:28:GLU:N	2.46	0.49
5:I5:112:TYR:HE1	5:I5:124:LEU:HD23	1.77	0.49
5:I5:178:GLU:OE1	5:I5:178:GLU:N	2.45	0.49
5:J5:77:GLN:O	5:J5:80:ILE:HG22	2.12	0.49
5:K5:102:MET:HG3	5:K5:130:VAL:CG2	2.40	0.49
5:K5:329:THR:O	5:K5:333:LYS:NZ	2.23	0.49
6:E6:327:GLN:HG3	6:E6:365:THR:HG22	1.95	0.49
6:F6:144:VAL:HG22	6:F6:149:GLU:HG3	1.94	0.49
1:F1:20:PHE:CE2	1:F1:63:ILE:HG21	2.47	0.49
2:F2:12:LEU:HD23	5:K5:44:GLN:HE21	1.77	0.49
3:E3:97:LEU:HB2	3:E3:98:PRO:HD2	1.95	0.49
4:C4:34:VAL:HG21	5:E5:62:TRP:CD1	2.48	0.49
4:D4:4:ILE:HD11	4:D4:17:LEU:HD21	1.93	0.49
5:A5:13:ASN:HD22	5:A5:14:THR:H	1.60	0.49
5:A5:39:GLU:OE1	7:A7:35:ARG:CG	2.60	0.49
5:A5:196:PRO:HG3	5:B5:198:GLN:NE2	2.28	0.49
5:A5:270:LYS:HE3	5:A5:271:HIS:CD2	2.47	0.49
5:C5:270:LYS:HE3	5:C5:271:HIS:CD2	2.47	0.49
5:C5:363:TYR:HE2	5:C5:365:VAL:HG13	1.77	0.49
5:D5:150:ILE:HG22	5:D5:151:SER:H	1.78	0.49
5:F5:42:ASP:OD1	5:F5:43:GLY:N	2.46	0.49
5:K5:53:ARG:NE	5:K5:57:GLU:OE2	2.45	0.49
5:K5:346:TYR:HD2	5:K5:381:ARG:NH2	2.11	0.49
6:A6:221:GLU:OE1	6:A6:221:GLU:N	2.44	0.49
6:B6:150:VAL:O	6:B6:154:LEU:HG	2.13	0.49
6:C6:489:GLU:O	6:D6:8:ILE:HG13	2.12	0.49
6:D6:92:SER:H	6:D6:221:GLU:HG3	1.77	0.49
6:F6:1:MET:HA	6:F6:1:MET:CE	2.43	0.49
6:F6:31:THR:OG1	6:F6:62:GLU:OE2	2.28	0.49
7:A7:51:ILE:CG2	7:A7:69:GLU:HB3	2.42	0.49
1:A1:28:ALA:HA	1:A1:64:MET:HB2	1.95	0.49
1:B1:37:LYS:N	1:C1:114:THR:O	2.35	0.49
1:C1:88:ASP:O	6:C6:416:LYS:HD2	2.12	0.49
1:D1:28:ALA:HA	1:D1:64:MET:HB2	1.95	0.49
1:D1:34:VAL:HG12	1:D1:58:VAL:HG13	1.95	0.49
2:A2:70:VAL:HG23	2:A2:72:ASP:H	1.78	0.49
2:C2:60:ILE:HD12	5:E5:83:LEU:HD11	1.95	0.49
2:F2:9:LEU:HD13	2:F2:17:TYR:HE2	1.77	0.49
3:B3:22:ILE:HG23	3:B3:198:PHE:CZ	2.48	0.49
3:E3:243:LEU:HD23	3:E3:248:VAL:HG22	1.94	0.49
4:A4:69:HIS:NE2	5:B5:75:ASP:OD1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E5:348:ASP:HB3	5:E5:350:ASP:OD1	2.12	0.49
5:F5:384:SER:OG	5:F5:388:GLY:O	2.29	0.49
5:G5:270:LYS:HE3	5:G5:271:HIS:CD2	2.47	0.49
5:J5:353:TYR:CE2	5:K5:353:TYR:HE2	2.30	0.49
6:B6:275:LYS:HG3	6:B6:282:TRP:CD2	2.47	0.49
6:C6:369:ASN:OD1	6:C6:370:ASP:N	2.46	0.49
2:B2:15:GLN:NE2	7:B7:38:SER:HA	2.28	0.49
2:B2:63:ILE:HD11	5:D5:80:ILE:HD11	1.95	0.49
3:B3:97:LEU:HB2	3:B3:98:PRO:HD2	1.95	0.49
3:C3:243:LEU:HD23	3:C3:248:VAL:HG22	1.94	0.49
3:D3:103:GLN:HB2	5:E5:144:TRP:HB3	1.94	0.49
5:A5:233:SER:OG	5:A5:234:SER:N	2.45	0.49
5:F5:122:TRP:HB3	5:F5:139:PHE:HB3	1.94	0.49
5:G5:250:HIS:O	5:G5:250:HIS:ND1	2.46	0.49
5:I5:260:SER:HB2	5:I5:263:ASP:HB2	1.95	0.49
5:J5:150:ILE:HG22	5:J5:151:SER:H	1.78	0.49
5:L5:116:ASP:N	5:L5:154:SER:O	2.27	0.49
5:L5:191:ARG:HH12	5:L5:235:ASN:CB	2.25	0.49
6:C6:122:GLY:HA2	6:C6:195:ILE:HD11	1.94	0.49
6:D6:144:VAL:HG22	6:D6:149:GLU:HG3	1.94	0.49
6:F6:369:ASN:OD1	6:F6:370:ASP:N	2.46	0.49
1:B1:34:VAL:HG12	1:B1:58:VAL:HG13	1.95	0.48
1:D1:92:LYS:HZ1	6:D6:411:GLU:HG2	1.77	0.48
1:E1:2:SER:N	1:F1:66:GLN:OE1	2.45	0.48
1:E1:37:LYS:NZ	1:F1:79:LYS:O	2.46	0.48
1:F1:34:VAL:HG12	1:F1:58:VAL:HG13	1.95	0.48
1:F1:92:LYS:HZ1	6:F6:411:GLU:HG2	1.78	0.48
2:F2:39:PHE:CE1	5:L5:5:PHE:HB2	2.48	0.48
2:F2:70:VAL:HG23	2:F2:72:ASP:H	1.78	0.48
2:F2:71:ASN:ND2	5:A5:362:ASN:H	2.11	0.48
3:C3:22:ILE:HG23	3:C3:198:PHE:CZ	2.48	0.48
3:C3:147:GLN:NE2	3:C3:191:ASP:HA	2.29	0.48
3:D3:97:LEU:HB2	3:D3:98:PRO:HD2	1.95	0.48
3:F3:97:LEU:HB2	3:F3:98:PRO:HD2	1.95	0.48
5:A5:353:TYR:CE2	5:L5:353:TYR:CE2	3.02	0.48
5:C5:369:GLU:HG3	5:C5:377:TRP:CE3	2.48	0.48
5:E5:250:HIS:ND1	5:E5:250:HIS:O	2.46	0.48
5:I5:211:ILE:HD12	5:I5:263:ASP:HB3	1.93	0.48
6:A6:150:VAL:O	6:A6:154:LEU:HG	2.13	0.48
6:A6:369:ASN:OD1	6:A6:370:ASP:N	2.46	0.48
6:B6:1:MET:HA	6:B6:1:MET:CE	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:327:GLN:HG3	6:D6:365:THR:HG22	1.95	0.48
6:F6:150:VAL:O	6:F6:154:LEU:HG	2.13	0.48
6:F6:327:GLN:HG3	6:F6:365:THR:HG22	1.95	0.48
6:F6:343:ILE:HG13	6:F6:353:LEU:CD1	2.43	0.48
7:B7:51:ILE:CG2	7:B7:69:GLU:HB3	2.42	0.48
3:A3:144:LYS:NZ	3:F3:11:LEU:HD22	2.28	0.48
3:C3:34:THR:OG1	3:C3:64:SER:HB2	2.13	0.48
3:C3:81:GLN:HG2	3:C3:81:GLN:O	2.14	0.48
3:C3:97:LEU:HB2	3:C3:98:PRO:HD2	1.95	0.48
3:D3:22:ILE:HG23	3:D3:198:PHE:CZ	2.48	0.48
3:F3:22:ILE:HG23	3:F3:198:PHE:CZ	2.48	0.48
5:A5:260:SER:HB2	5:A5:263:ASP:HB2	1.94	0.48
5:B5:208:LEU:HD23	5:B5:256:ILE:HD12	1.95	0.48
5:B5:265:GLY:HA2	5:B5:268:VAL:HG22	1.95	0.48
5:C5:346:TYR:HD2	5:C5:381:ARG:HH21	1.60	0.48
5:D5:77:GLN:O	5:D5:80:ILE:HG22	2.12	0.48
5:D5:353:TYR:CZ	5:D5:368:LEU:HB3	2.48	0.48
5:E5:45:ARG:NH2	5:F5:45:ARG:CZ	2.76	0.48
5:K5:344:GLY:HA2	5:K5:383:PHE:HE2	1.78	0.48
6:C6:92:SER:H	6:C6:221:GLU:HG3	1.77	0.48
6:C6:144:VAL:HG22	6:C6:149:GLU:HG3	1.94	0.48
6:C6:150:VAL:O	6:C6:154:LEU:HG	2.13	0.48
6:D6:485:ALA:HB3	7:C7:94:ARG:NH1	2.27	0.48
1:D1:75:LEU:HA	1:D1:75:LEU:HD23	1.69	0.48
1:F1:28:ALA:HA	1:F1:64:MET:HB2	1.95	0.48
3:A3:97:LEU:HB2	3:A3:98:PRO:HD2	1.95	0.48
3:B3:34:THR:OG1	3:B3:64:SER:HB2	2.13	0.48
3:F3:34:THR:OG1	3:F3:64:SER:HB2	2.13	0.48
3:F3:147:GLN:NE2	3:F3:191:ASP:HA	2.29	0.48
5:A5:273:LEU:HD23	5:A5:273:LEU:O	2.13	0.48
5:B5:150:ILE:HG22	5:B5:151:SER:H	1.79	0.48
5:D5:33:ASP:H	5:D5:34:ILE:HD12	1.78	0.48
5:F5:77:GLN:O	5:F5:80:ILE:HG22	2.12	0.48
5:F5:94:SER:OG	5:F5:174:ILE:O	2.26	0.48
5:G5:39:GLU:OE1	7:D7:35:ARG:HG3	2.13	0.48
5:H5:216:ASP:HB3	5:H5:343:ILE:HG12	1.95	0.48
5:J5:208:LEU:HD23	5:J5:256:ILE:HD12	1.95	0.48
5:K5:292:ASN:O	5:K5:294:ASP:N	2.44	0.48
6:D6:343:ILE:HG13	6:D6:353:LEU:CD1	2.43	0.48
6:E6:1:MET:HA	6:E6:1:MET:CE	2.43	0.48
6:E6:122:GLY:HA2	6:E6:195:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:28:ALA:HA	1:B1:64:MET:HB2	1.95	0.48
2:C2:9:LEU:HD13	2:C2:17:TYR:HE2	1.77	0.48
3:A3:81:GLN:HG2	3:A3:81:GLN:O	2.14	0.48
3:B3:81:GLN:O	3:B3:81:GLN:HG2	2.14	0.48
3:C3:35:VAL:HG22	3:D3:183:PRO:HG2	1.95	0.48
3:C3:87:PHE:HD2	7:B7:41:ASN:ND2	2.04	0.48
3:D3:114:GLN:HE21	5:C5:33:ASP:CG	2.16	0.48
3:D3:243:LEU:HD23	3:D3:248:VAL:HG22	1.94	0.48
4:A4:34:VAL:HG21	5:A5:62:TRP:CD1	2.47	0.48
5:B5:103:SER:HA	5:B5:132:ILE:CG2	2.43	0.48
5:D5:216:ASP:HB3	5:D5:343:ILE:HG12	1.95	0.48
5:E5:258:GLY:H	5:E5:306:ARG:HH11	1.61	0.48
5:F5:353:TYR:CE2	5:G5:353:TYR:CE2	3.02	0.48
5:G5:328:ASP:OD2	5:G5:328:ASP:N	2.40	0.48
5:H5:122:TRP:HB3	5:H5:139:PHE:HB3	1.94	0.48
5:L5:150:ILE:HG22	5:L5:151:SER:H	1.78	0.48
5:L5:384:SER:OG	5:L5:388:GLY:O	2.29	0.48
6:A6:343:ILE:HG13	6:A6:353:LEU:CD1	2.43	0.48
6:D6:1:MET:CE	6:D6:1:MET:HA	2.43	0.48
6:D6:369:ASN:OD1	6:D6:370:ASP:N	2.46	0.48
1:A1:20:PHE:CE2	1:A1:63:ILE:HG21	2.47	0.48
5:B5:275:ASN:OD1	5:B5:276:THR:N	2.46	0.48
5:C5:130:VAL:HB	5:C5:135:ASN:OD1	2.13	0.48
5:E5:25:GLY:O	5:E5:28:GLU:N	2.46	0.48
5:E5:270:LYS:HE3	5:E5:271:HIS:CD2	2.48	0.48
5:E5:369:GLU:HG3	5:E5:377:TRP:CE3	2.48	0.48
5:H5:275:ASN:OD1	5:H5:276:THR:N	2.46	0.48
5:H5:312:LEU:HD11	5:H5:347:VAL:HG11	1.95	0.48
5:J5:384:SER:OG	5:J5:388:GLY:O	2.30	0.48
6:A6:144:VAL:HG22	6:A6:149:GLU:HG3	1.94	0.48
6:B6:31:THR:OG1	6:B6:62:GLU:OE2	2.28	0.48
6:F6:109:GLU:HB2	6:F6:147:LEU:HD11	1.95	0.48
7:B7:35:ARG:NH1	7:B7:76:GLN:O	2.28	0.48
3:A3:22:ILE:HG23	3:A3:198:PHE:CZ	2.48	0.48
3:A3:221:LYS:HD3	5:K5:51:LEU:HD11	1.94	0.48
3:A3:231:GLN:HE21	4:F4:4:ILE:HG23	1.78	0.48
3:C3:34:THR:HG22	3:D3:184:VAL:HG22	1.95	0.48
3:D3:104:GLN:HE21	5:E5:182:PRO:HG3	1.78	0.48
3:E3:34:THR:OG1	3:E3:64:SER:HB2	2.13	0.48
4:B4:109:MET:HE2	4:B4:109:MET:HA	1.95	0.48
4:C4:66:HIS:CD2	5:E5:71:LEU:HD21	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:214:VAL:HA	5:A5:258:GLY:O	2.13	0.48
5:F5:42:ASP:O	5:F5:46:ILE:HG13	2.12	0.48
5:F5:119:ASN:N	5:H5:104:ARG:NH1	2.58	0.48
5:H5:177:ARG:HG2	5:H5:177:ARG:HH11	1.78	0.48
5:H5:265:GLY:HA2	5:H5:268:VAL:HG22	1.95	0.48
5:I5:130:VAL:HB	5:I5:135:ASN:OD1	2.14	0.48
6:A6:321:ASN:HA	6:A6:425:GLY:HA3	1.95	0.48
6:C6:123:SER:O	6:C6:124:PHE:HD1	1.97	0.48
6:D6:122:GLY:HA2	6:D6:195:ILE:HD11	1.95	0.48
6:D6:123:SER:O	6:D6:124:PHE:HD1	1.97	0.48
6:E6:109:GLU:HB2	6:E6:147:LEU:HD11	1.95	0.48
6:E6:123:SER:O	6:E6:124:PHE:HD1	1.97	0.48
6:F6:123:SER:O	6:F6:124:PHE:HD1	1.97	0.48
1:E1:2:SER:N	1:F1:22:HIS:HD1	2.10	0.48
1:E1:28:ALA:HA	1:E1:64:MET:HB2	1.95	0.48
1:F1:110:THR:CG2	3:F3:74:VAL:HG21	2.43	0.48
3:A3:147:GLN:NE2	3:A3:191:ASP:HA	2.29	0.48
3:C3:38:ARG:O	3:D3:158:TYR:HE1	1.95	0.48
3:E3:147:GLN:NE2	3:E3:191:ASP:HA	2.29	0.48
5:A5:211:ILE:HD12	5:A5:263:ASP:HB3	1.95	0.48
5:B5:177:ARG:HG2	5:B5:177:ARG:HH11	1.77	0.48
5:C5:34:ILE:HD11	5:C5:42:ASP:OD2	2.14	0.48
5:K5:270:LYS:HE3	5:K5:271:HIS:CD2	2.48	0.48
6:A6:123:SER:O	6:A6:124:PHE:HD1	1.97	0.48
6:C6:14:GLN:OE1	6:C6:14:GLN:N	2.47	0.48
6:C6:343:ILE:HG13	6:C6:353:LEU:CD1	2.43	0.48
6:F6:92:SER:H	6:F6:221:GLU:HG3	1.77	0.48
7:E7:91:THR:HA	7:E7:95:VAL:O	2.14	0.48
2:A2:15:GLN:NE2	7:A7:38:SER:HA	2.28	0.48
2:B2:192:ARG:O	5:D5:200:THR:OG1	2.32	0.48
2:C2:121:TYR:CE2	2:C2:125:LEU:HD11	2.49	0.48
2:D2:194:ILE:HG22	2:D2:195:THR:HG23	1.96	0.48
2:E2:15:GLN:HE21	7:E7:37:LYS:C	2.17	0.48
2:F2:121:TYR:CE2	2:F2:125:LEU:HD11	2.49	0.48
2:F2:194:ILE:HG22	2:F2:195:THR:HG23	1.96	0.48
3:D3:34:THR:OG1	3:D3:64:SER:HB2	2.13	0.48
4:D4:61:ALA:HB1	5:G5:186:ARG:CZ	2.43	0.48
4:E4:1:MET:N	4:E4:108:GLU:OE1	2.47	0.48
4:F4:1:MET:N	4:F4:108:GLU:OE1	2.47	0.48
5:B5:68:ASP:N	5:B5:72:ASN:HD21	2.12	0.48
5:C5:312:LEU:HB2	5:C5:390:LEU:HD21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F5:150:ILE:HG22	5:F5:151:SER:H	1.79	0.48
5:F5:353:TYR:CD1	5:F5:368:LEU:HD23	2.49	0.48
5:H5:113:THR:HG23	5:H5:156:THR:OG1	2.14	0.48
5:H5:150:ILE:HG22	5:H5:151:SER:H	1.79	0.48
5:L5:353:TYR:CD1	5:L5:368:LEU:HD23	2.49	0.48
6:A6:4:ILE:HD11	7:E7:39:TRP:NE1	2.28	0.48
6:A6:31:THR:OG1	6:A6:62:GLU:OE2	2.28	0.48
6:B6:122:GLY:HA2	6:B6:195:ILE:HD11	1.94	0.48
6:B6:279:ASN:OD1	6:B6:281:VAL:HG12	2.14	0.48
6:C6:1:MET:HA	6:C6:1:MET:CE	2.43	0.48
6:D6:14:GLN:OE1	6:D6:14:GLN:N	2.47	0.48
6:E6:150:VAL:O	6:E6:154:LEU:HG	2.13	0.48
6:E6:369:ASN:OD1	6:E6:370:ASP:N	2.46	0.48
7:C7:91:THR:HA	7:C7:95:VAL:O	2.14	0.48
7:D7:35:ARG:NH1	7:D7:76:GLN:O	2.28	0.48
1:C1:110:THR:CG2	3:C3:74:VAL:HG21	2.44	0.48
2:C2:194:ILE:HG22	2:C2:195:THR:HG23	1.96	0.48
2:E2:70:VAL:HG23	2:E2:72:ASP:H	1.78	0.48
5:B5:26:TYR:HE2	5:B5:45:ARG:HH12	1.62	0.48
5:B5:191:ARG:HH12	5:B5:235:ASN:CB	2.25	0.48
5:D5:113:THR:HG23	5:D5:156:THR:OG1	2.14	0.48
5:F5:218:GLN:NE2	5:F5:238:ILE:HD12	2.29	0.48
5:G5:180:GLU:H	5:G5:180:GLU:CD	2.17	0.48
5:G5:273:LEU:HD23	5:G5:273:LEU:O	2.13	0.48
5:H5:339:VAL:HG22	5:H5:355:GLN:HG2	1.94	0.48
5:I5:34:ILE:HD11	5:I5:42:ASP:OD2	2.14	0.48
5:I5:45:ARG:HH12	5:J5:45:ARG:CZ	2.27	0.48
5:J5:120:GLN:HB3	5:J5:122:TRP:NE1	2.29	0.48
5:J5:381:ARG:HD3	5:K5:321:LYS:HE3	1.95	0.48
6:A6:14:GLN:OE1	6:A6:14:GLN:N	2.47	0.48
6:A6:43:TYR:HA	6:A6:85:ILE:O	2.14	0.48
6:B6:144:VAL:HG22	6:B6:149:GLU:HG3	1.94	0.48
6:E6:321:ASN:HA	6:E6:425:GLY:HA3	1.95	0.48
7:D7:91:THR:HA	7:D7:95:VAL:O	2.14	0.48
1:A1:34:VAL:HG12	1:A1:58:VAL:HG13	1.95	0.48
1:B1:10:GLN:HB3	1:C1:123:ASN:OD1	2.14	0.48
2:A2:194:ILE:HG22	2:A2:195:THR:HG23	1.96	0.48
2:B2:121:TYR:CE2	2:B2:125:LEU:HD11	2.49	0.48
3:A3:181:PHE:HD2	3:F3:37:TYR:CD2	2.32	0.48
3:A3:201:ILE:HG23	3:F3:46:LEU:HD23	1.96	0.48
3:C3:8:VAL:HG13	7:B7:76:GLN:HG2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E3:22:ILE:HG23	3:E3:198:PHE:CZ	2.48	0.48
3:F3:231:GLN:HE21	4:E4:4:ILE:HG23	1.78	0.48
5:A5:12:THR:HG23	5:A5:57:GLU:HB3	1.96	0.48
5:B5:216:ASP:HB3	5:B5:343:ILE:HG12	1.95	0.48
5:G5:383:PHE:CG	5:G5:384:SER:N	2.82	0.48
5:H5:26:TYR:CE2	5:H5:45:ARG:NH1	2.82	0.48
5:H5:68:ASP:N	5:H5:72:ASN:HD21	2.11	0.48
5:I5:348:ASP:HB3	5:I5:350:ASP:OD1	2.14	0.48
5:J5:353:TYR:CD1	5:J5:368:LEU:HD23	2.49	0.48
5:K5:348:ASP:HB3	5:K5:350:ASP:OD1	2.14	0.48
6:A6:327:GLN:HG3	6:A6:365:THR:HG22	1.95	0.48
6:B6:4:ILE:HD11	7:F7:39:TRP:NE1	2.28	0.48
6:B6:14:GLN:N	6:B6:14:GLN:OE1	2.47	0.48
6:C6:279:ASN:OD1	6:C6:281:VAL:HG12	2.14	0.48
6:C6:321:ASN:HA	6:C6:425:GLY:HA3	1.95	0.48
6:D6:150:VAL:O	6:D6:154:LEU:HG	2.13	0.48
6:D6:487:HIS:ND1	7:C7:94:ARG:HD2	2.29	0.48
6:F6:14:GLN:OE1	6:F6:14:GLN:N	2.47	0.48
7:B7:6:LEU:CD1	7:B7:30:GLN:HE21	2.27	0.48
2:A2:114:TYR:HB2	5:C5:328:ASP:HB3	1.96	0.47
2:B2:70:VAL:HG23	2:B2:72:ASP:H	1.78	0.47
2:C2:70:VAL:HG23	2:C2:72:ASP:H	1.78	0.47
2:C2:152:ASP:OD2	5:E5:87:VAL:HG21	2.14	0.47
2:D2:70:VAL:HG23	2:D2:72:ASP:H	1.78	0.47
3:A3:34:THR:OG1	3:A3:64:SER:HB2	2.13	0.47
3:A3:108:ILE:HG23	4:F4:89:TYR:CE2	2.49	0.47
3:A3:158:TYR:OH	3:F3:58:ASN:OD1	2.21	0.47
3:B3:147:GLN:NE2	3:B3:191:ASP:HA	2.29	0.47
3:D3:147:GLN:NE2	3:D3:191:ASP:HA	2.29	0.47
4:A4:85:GLY:H	5:A5:181:THR:HG21	1.79	0.47
5:A5:348:ASP:HB3	5:A5:350:ASP:OD1	2.14	0.47
5:A5:383:PHE:CG	5:A5:384:SER:N	2.82	0.47
5:C5:112:TYR:HE1	5:C5:124:LEU:HD23	1.79	0.47
5:D5:272:ARG:HD2	5:D5:272:ARG:C	2.35	0.47
5:F5:265:GLY:HA2	5:F5:268:VAL:HG22	1.96	0.47
5:G5:12:THR:HG23	5:G5:57:GLU:HB3	1.96	0.47
5:G5:243:GLU:OE1	5:G5:243:GLU:N	2.47	0.47
5:I5:312:LEU:HB2	5:I5:390:LEU:HD21	1.95	0.47
5:J5:70:ASP:HA	5:J5:186:ARG:HD3	1.95	0.47
5:J5:353:TYR:CZ	5:J5:368:LEU:HB3	2.49	0.47
5:K5:211:ILE:HD12	5:K5:263:ASP:HB3	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K5:312:LEU:HB2	5:K5:390:LEU:HD21	1.96	0.47
5:L5:120:GLN:HB3	5:L5:122:TRP:NE1	2.29	0.47
6:B6:109:GLU:HB2	6:B6:147:LEU:HD11	1.95	0.47
6:C6:4:ILE:HD11	7:A7:39:TRP:NE1	2.28	0.47
6:E6:87:TYR:HH	6:E6:89:ARG:HG2	1.79	0.47
6:F6:489:GLU:OE2	7:E7:66:ILE:HG21	2.14	0.47
1:C1:28:ALA:HA	1:C1:64:MET:HB2	1.95	0.47
1:C1:34:VAL:HG12	1:C1:58:VAL:HG13	1.95	0.47
1:D1:110:THR:CG2	3:D3:74:VAL:HG21	2.45	0.47
2:D2:30:ILE:CD1	5:G5:52:LEU:HD11	2.37	0.47
3:A3:226:SER:N	4:F4:12:ILE:O	2.45	0.47
3:E3:226:SER:N	4:D4:12:ILE:O	2.46	0.47
4:A4:61:ALA:HB1	5:A5:186:ARG:CZ	2.43	0.47
5:B5:121:ASN:HB2	5:B5:142:SER:OG	2.14	0.47
5:E5:345:GLN:HE21	5:E5:347:VAL:HA	1.79	0.47
5:F5:113:THR:HG23	5:F5:156:THR:OG1	2.14	0.47
5:G5:321:LYS:HG3	5:G5:362:ASN:O	2.14	0.47
5:I5:233:SER:OG	5:I5:234:SER:N	2.45	0.47
6:A6:109:GLU:HB2	6:A6:147:LEU:HD11	1.95	0.47
6:A6:204:GLU:CD	6:A6:204:GLU:N	2.67	0.47
6:B6:43:TYR:HA	6:B6:85:ILE:O	2.14	0.47
6:B6:327:GLN:HG3	6:B6:365:THR:HG22	1.95	0.47
6:C6:221:GLU:OE1	6:C6:221:GLU:N	2.44	0.47
6:C6:327:GLN:HG3	6:C6:365:THR:HG22	1.95	0.47
6:E6:343:ILE:HG13	6:E6:353:LEU:CD1	2.43	0.47
1:A1:42:ASN:O	3:C3:187:ASN:ND2	2.35	0.47
1:B1:110:THR:CG2	3:B3:74:VAL:HG21	2.43	0.47
2:A2:121:TYR:CE2	2:A2:125:LEU:HD11	2.49	0.47
2:E2:121:TYR:CE2	2:E2:125:LEU:HD11	2.49	0.47
3:B3:20:ILE:HD12	3:B3:165:GLU:HG3	1.97	0.47
3:B3:35:VAL:HG22	3:C3:183:PRO:HG2	1.97	0.47
3:C3:243:LEU:HB2	4:B4:108:GLU:OE2	2.15	0.47
3:D3:98:PRO:HB3	5:E5:62:TRP:NE1	2.29	0.47
4:F4:71:ASN:HD21	5:L5:90:PRO:CA	2.18	0.47
5:B5:312:LEU:HD11	5:B5:347:VAL:HG11	1.95	0.47
5:E5:344:GLY:HA2	5:E5:383:PHE:HE2	1.78	0.47
5:F5:191:ARG:HH12	5:F5:235:ASN:CB	2.25	0.47
5:G5:344:GLY:HA2	5:G5:383:PHE:HE2	1.79	0.47
5:G5:346:TYR:HD2	5:G5:381:ARG:HH22	1.52	0.47
5:H5:272:ARG:HD2	5:H5:272:ARG:C	2.35	0.47
5:L5:68:ASP:N	5:L5:72:ASN:HD21	2.12	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L5:218:GLN:NE2	5:L5:238:ILE:HD12	2.29	0.47
6:D6:109:GLU:HB2	6:D6:147:LEU:HD11	1.95	0.47
6:F6:311:ARG:NH2	6:F6:329:LYS:HD3	2.30	0.47
7:B7:91:THR:HA	7:B7:95:VAL:O	2.14	0.47
7:F7:6:LEU:CD1	7:F7:30:GLN:HE21	2.27	0.47
2:D2:121:TYR:CE2	2:D2:125:LEU:HD11	2.49	0.47
3:A3:154:MET:HG3	3:A3:181:PHE:CZ	2.49	0.47
3:C3:20:ILE:HD12	3:C3:165:GLU:HG3	1.97	0.47
3:D3:154:MET:HG3	3:D3:181:PHE:CZ	2.49	0.47
3:E3:81:GLN:O	3:E3:81:GLN:HG2	2.14	0.47
5:A5:250:HIS:O	5:A5:250:HIS:ND1	2.45	0.47
5:B5:99:THR:HG22	5:B5:136:GLU:HG2	1.97	0.47
5:C5:25:GLY:O	5:C5:28:GLU:N	2.47	0.47
5:H5:353:TYR:CE2	5:I5:353:TYR:CE2	3.03	0.47
5:H5:384:SER:OG	5:H5:388:GLY:O	2.30	0.47
5:I5:332:ILE:HD11	5:I5:356:SER:HB2	1.96	0.47
5:J5:113:THR:HG23	5:J5:156:THR:OG1	2.14	0.47
5:L5:103:SER:N	5:L5:164:VAL:HG21	2.27	0.47
5:L5:265:GLY:HA2	5:L5:268:VAL:HG22	1.96	0.47
6:B6:204:GLU:CD	6:B6:204:GLU:N	2.67	0.47
6:C6:43:TYR:HA	6:C6:85:ILE:O	2.14	0.47
7:A7:6:LEU:CD1	7:A7:30:GLN:HE21	2.27	0.47
7:C7:6:LEU:CD1	7:C7:30:GLN:HE21	2.27	0.47
7:F7:91:THR:HA	7:F7:95:VAL:O	2.14	0.47
1:B1:92:LYS:HZ1	6:B6:411:GLU:HG2	1.79	0.47
2:F2:137:TYR:CD1	5:K5:271:HIS:HA	2.49	0.47
3:B3:231:GLN:NE2	4:A4:4:ILE:HG23	2.30	0.47
3:B3:234:GLU:HA	4:A4:2:ASN:HD22	1.79	0.47
5:B5:113:THR:HG23	5:B5:156:THR:OG1	2.14	0.47
5:D5:208:LEU:HD23	5:D5:256:ILE:HD12	1.95	0.47
5:F5:116:ASP:N	5:F5:154:SER:O	2.27	0.47
5:H5:121:ASN:HB2	5:H5:142:SER:OG	2.14	0.47
6:B6:123:SER:O	6:B6:124:PHE:HD1	1.97	0.47
6:B6:369:ASN:OD1	6:B6:370:ASP:N	2.46	0.47
2:E2:116:LEU:HD21	2:E2:124:PHE:CD2	2.50	0.47
3:A3:20:ILE:HD12	3:A3:165:GLU:HG3	1.97	0.47
3:A3:111:ILE:HD11	4:F4:84:ASN:HB2	1.96	0.47
3:E3:154:MET:HG3	3:E3:181:PHE:CZ	2.49	0.47
3:F3:108:ILE:HG23	4:E4:89:TYR:CE2	2.49	0.47
3:F3:154:MET:HG3	3:F3:181:PHE:CZ	2.49	0.47
4:F4:109:MET:HA	4:F4:109:MET:HE2	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A5:344:GLY:HA2	5:A5:383:PHE:HE2	1.79	0.47
5:E5:259:GLY:H	5:E5:306:ARG:HH12	1.62	0.47
5:G5:25:GLY:O	5:G5:28:GLU:N	2.48	0.47
5:H5:218:GLN:NE2	5:H5:238:ILE:HD12	2.30	0.47
5:I5:108:LEU:HB3	5:I5:112:TYR:CE1	2.49	0.47
5:I5:369:GLU:HG3	5:I5:377:TRP:CE3	2.49	0.47
5:J5:96:TRP:CZ3	5:J5:173:ALA:HB2	2.50	0.47
6:A6:279:ASN:OD1	6:A6:281:VAL:HG12	2.14	0.47
6:C6:109:GLU:HB2	6:C6:147:LEU:HD11	1.95	0.47
6:E6:279:ASN:OD1	6:E6:281:VAL:HG12	2.14	0.47
7:A7:91:THR:HA	7:A7:95:VAL:O	2.14	0.47
1:A1:135:GLU:O	1:F1:40:ARG:NH1	2.48	0.47
1:B1:20:PHE:CE2	1:B1:63:ILE:HG21	2.47	0.47
1:B1:88:ASP:O	6:B6:416:LYS:HD2	2.14	0.47
1:C1:20:PHE:CE2	1:C1:63:ILE:HG21	2.47	0.47
2:D2:48:ASP:CB	5:G5:78:GLN:NE2	2.76	0.47
2:D2:116:LEU:HD21	2:D2:124:PHE:CD2	2.50	0.47
2:F2:62:ARG:O	5:L5:69:PRO:HG2	2.15	0.47
2:F2:116:LEU:HD21	2:F2:124:PHE:CD2	2.50	0.47
3:B3:93:ILE:HG23	3:B3:93:ILE:O	2.15	0.47
3:B3:231:GLN:HE21	4:A4:4:ILE:HG23	1.78	0.47
3:C3:58:ASN:OD1	3:D3:158:TYR:CZ	2.67	0.47
3:C3:215:SER:HB3	7:B7:47:MET:HE1	1.95	0.47
3:D3:20:ILE:HD12	3:D3:165:GLU:HG3	1.97	0.47
3:E3:93:ILE:HG23	3:E3:93:ILE:O	2.15	0.47
4:E4:84:ASN:O	4:E4:86:MET:N	2.46	0.47
5:A5:332:ILE:HB	5:A5:358:ILE:HD11	1.97	0.47
5:B5:19:ARG:HA	5:B5:50:THR:HG21	1.96	0.47
5:B5:120:GLN:HB3	5:B5:122:TRP:NE1	2.30	0.47
5:C5:229:GLN:HG2	5:C5:230:ILE:N	2.30	0.47
5:C5:312:LEU:HB3	5:C5:392:ILE:HD13	1.97	0.47
5:D5:70:ASP:HA	5:D5:186:ARG:HD3	1.96	0.47
5:E5:38:GLN:OE1	7:C7:49:ALA:HB1	2.15	0.47
5:F5:3:LEU:HA	5:F5:11:GLN:O	2.14	0.47
5:F5:397:VAL:HG13	5:F5:397:VAL:O	2.15	0.47
5:G5:45:ARG:NH2	5:H5:45:ARG:CZ	2.78	0.47
5:H5:19:ARG:HA	5:H5:50:THR:HG21	1.96	0.47
5:K5:345:GLN:HE21	5:K5:347:VAL:HA	1.79	0.47
5:K5:369:GLU:HG3	5:K5:377:TRP:CE3	2.49	0.47
5:L5:397:VAL:HG13	5:L5:397:VAL:O	2.15	0.47
6:D6:43:TYR:HA	6:D6:85:ILE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:311:ARG:NH2	6:D6:329:LYS:HD3	2.30	0.47
6:E6:89:ARG:NE	6:E6:220:ALA:O	2.38	0.47
6:E6:311:ARG:NH2	6:E6:329:LYS:HD3	2.30	0.47
6:F6:124:PHE:O	6:F6:135:GLU:HA	2.15	0.47
7:A7:28:ILE:HA	7:A7:31:THR:HG22	1.97	0.47
7:B7:28:ILE:HA	7:B7:31:THR:HG22	1.97	0.47
7:D7:28:ILE:HA	7:D7:31:THR:HG22	1.97	0.47
7:E7:28:ILE:HA	7:E7:31:THR:HG22	1.97	0.47
1:A1:114:THR:O	1:F1:37:LYS:N	2.35	0.47
2:A2:48:ASP:CB	5:A5:78:GLN:NE2	2.76	0.47
2:C2:121:TYR:O	2:C2:125:LEU:HG	2.15	0.47
2:D2:121:TYR:O	2:D2:125:LEU:HG	2.15	0.47
2:F2:121:TYR:O	2:F2:125:LEU:HG	2.15	0.47
3:F3:20:ILE:HD12	3:F3:165:GLU:HG3	1.97	0.47
4:A4:1:MET:N	4:A4:108:GLU:OE1	2.47	0.47
4:D4:1:MET:N	4:D4:108:GLU:OE1	2.47	0.47
5:B5:272:ARG:HD2	5:B5:272:ARG:C	2.35	0.47
5:C5:45:ARG:HH12	5:D5:45:ARG:CZ	2.27	0.47
5:C5:235:ASN:HB3	5:C5:237:ASP:OD1	2.15	0.47
5:C5:260:SER:HB2	5:C5:263:ASP:HB2	1.96	0.47
5:D5:346:TYR:CE1	5:D5:383:PHE:CD2	3.03	0.47
5:E5:53:ARG:NE	5:E5:57:GLU:OE2	2.46	0.47
5:G5:211:ILE:HD12	5:G5:263:ASP:HB3	1.95	0.47
6:A6:124:PHE:O	6:A6:135:GLU:HA	2.15	0.47
6:A6:407:MET:SD	6:A6:474:PRO:HD2	2.55	0.47
6:B6:321:ASN:HA	6:B6:425:GLY:HA3	1.95	0.47
6:B6:343:ILE:HG13	6:B6:353:LEU:CD1	2.43	0.47
6:C6:311:ARG:NH2	6:C6:329:LYS:HD3	2.30	0.47
6:D6:279:ASN:OD1	6:D6:281:VAL:HG12	2.14	0.47
6:E6:43:TYR:HA	6:E6:85:ILE:O	2.14	0.47
6:F6:221:GLU:OE1	6:F6:221:GLU:N	2.44	0.47
6:F6:345:ASN:HA	6:F6:348:THR:HG22	1.97	0.47
1:E1:57:GLY:O	1:E1:59:HIS:ND1	2.36	0.47
3:B3:154:MET:HG3	3:B3:181:PHE:CZ	2.49	0.47
3:C3:93:ILE:HG23	3:C3:93:ILE:O	2.15	0.47
3:C3:106:GLN:NE2	5:C5:143:LEU:HD13	2.30	0.47
3:D3:75:GLU:O	6:D6:320:GLN:NE2	2.48	0.47
3:E3:20:ILE:HD12	3:E3:165:GLU:HG3	1.97	0.47
5:B5:70:ASP:HA	5:B5:186:ARG:HD3	1.96	0.47
5:B5:199:SER:O	5:B5:199:SER:OG	2.28	0.47
5:B5:218:GLN:NE2	5:B5:238:ILE:HD12	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B5:220:TYR:HB2	5:B5:253:TRP:HB3	1.97	0.47
5:B5:272:ARG:O	5:B5:273:LEU:HD22	2.15	0.47
5:B5:397:VAL:HG13	5:B5:397:VAL:O	2.15	0.47
5:C5:38:GLN:HG3	7:B7:43:ASN:HD22	1.80	0.47
5:C5:39:GLU:OE1	7:B7:35:ARG:CA	2.61	0.47
5:D5:120:GLN:HB3	5:D5:122:TRP:NE1	2.29	0.47
5:F5:255:VAL:HA	5:F5:305:ASP:O	2.15	0.47
5:H5:321:LYS:CE	5:I5:381:ARG:CZ	2.93	0.47
5:H5:397:VAL:HG13	5:H5:397:VAL:O	2.15	0.47
6:A6:311:ARG:NH2	6:A6:329:LYS:HD3	2.30	0.47
6:E6:14:GLN:N	6:E6:14:GLN:OE1	2.47	0.47
6:E6:221:GLU:OE1	6:E6:221:GLU:N	2.44	0.47
6:E6:407:MET:SD	6:E6:474:PRO:HD2	2.55	0.47
6:F6:43:TYR:HA	6:F6:85:ILE:O	2.14	0.47
7:E7:6:LEU:CD1	7:E7:30:GLN:HE21	2.27	0.47
2:B2:121:TYR:O	2:B2:125:LEU:HG	2.15	0.47
2:C2:9:LEU:HD23	2:C2:9:LEU:HA	1.69	0.47
2:E2:137:TYR:CD1	5:I5:271:HIS:HA	2.49	0.47
3:A3:75:GLU:HG3	6:A6:320:GLN:NE2	2.29	0.47
3:B3:243:LEU:HB2	4:A4:108:GLU:OE2	2.15	0.47
3:B3:248:VAL:HG13	4:A4:111:GLN:HG2	1.96	0.47
3:C3:37:TYR:OH	3:C3:173:TYR:OH	2.33	0.47
3:C3:154:MET:HG3	3:C3:181:PHE:CZ	2.49	0.47
3:D3:81:GLN:HG2	3:D3:81:GLN:O	2.14	0.47
3:F3:75:GLU:O	6:F6:320:GLN:NE2	2.48	0.47
5:B5:353:TYR:CD1	5:B5:368:LEU:HD23	2.50	0.47
5:C5:96:TRP:HB2	5:C5:122:TRP:CZ3	2.50	0.47
5:C5:348:ASP:HB3	5:C5:350:ASP:OD1	2.14	0.47
5:D5:191:ARG:NH1	5:D5:205:TYR:OH	2.48	0.47
5:D5:241:GLY:HA2	5:D5:346:TYR:OH	2.15	0.47
5:E5:350:ASP:OD1	5:E5:350:ASP:N	2.48	0.47
5:H5:99:THR:HG22	5:H5:136:GLU:HG2	1.97	0.47
5:H5:353:TYR:CD1	5:H5:368:LEU:HD23	2.50	0.47
5:J5:207:LYS:HE3	5:J5:271:HIS:CE1	2.50	0.47
5:J5:272:ARG:O	5:J5:273:LEU:HD22	2.15	0.47
5:K5:341:PHE:HB3	5:K5:345:GLN:OE1	2.15	0.47
5:L5:70:ASP:HA	5:L5:186:ARG:HD3	1.96	0.47
1:C1:29:LEU:HB2	1:D1:121:ASP:OD1	2.15	0.46
3:D3:231:GLN:NE2	4:C4:4:ILE:HG23	2.30	0.46
3:E3:8:VAL:HG13	7:D7:76:GLN:HG2	1.97	0.46
4:A4:78:VAL:HG12	4:A4:101:LEU:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:F4:78:VAL:HG12	4:F4:101:LEU:HA	1.97	0.46
5:D5:312:LEU:HD11	5:D5:347:VAL:HG11	1.96	0.46
5:H5:120:GLN:HB3	5:H5:122:TRP:NE1	2.30	0.46
5:H5:188:ARG:O	5:H5:192:SER:OG	2.24	0.46
5:I5:235:ASN:HB3	5:I5:237:ASP:OD1	2.15	0.46
5:I5:312:LEU:HB3	5:I5:392:ILE:HD13	1.97	0.46
5:J5:220:TYR:HB2	5:J5:253:TRP:HB3	1.97	0.46
5:L5:2:SER:HG	5:L5:13:ASN:HD22	1.57	0.46
5:L5:255:VAL:HA	5:L5:305:ASP:O	2.15	0.46
6:A6:307:THR:O	6:A6:311:ARG:N	2.48	0.46
6:D6:275:LYS:O	6:D6:275:LYS:HG2	2.16	0.46
6:D6:307:THR:O	6:D6:311:ARG:N	2.48	0.46
7:C7:28:ILE:HA	7:C7:31:THR:HG22	1.97	0.46
7:D7:6:LEU:CD1	7:D7:30:GLN:HE21	2.27	0.46
1:D1:20:PHE:CE2	1:D1:63:ILE:HG21	2.47	0.46
1:D1:33:PRO:CG	1:E1:116:GLN:HB2	2.46	0.46
2:B2:194:ILE:HG22	2:B2:195:THR:HG23	1.96	0.46
2:C2:116:LEU:HD21	2:C2:124:PHE:CD2	2.50	0.46
2:D2:15:GLN:HE22	7:D7:38:SER:CA	2.27	0.46
3:A3:224:ASP:OD1	3:A3:225:ALA:N	2.46	0.46
3:B3:22:ILE:HG23	3:B3:198:PHE:HZ	1.80	0.46
3:C3:3:LEU:HG	3:D3:135:PHE:CE2	2.50	0.46
3:C3:113:SER:HA	3:C3:116:ARG:NH1	2.31	0.46
3:D3:58:ASN:OD1	3:E3:158:TYR:CZ	2.69	0.46
3:D3:113:SER:HA	3:D3:116:ARG:NH1	2.31	0.46
3:E3:113:SER:HA	3:E3:116:ARG:NH1	2.31	0.46
5:D5:19:ARG:HA	5:D5:50:THR:HG21	1.97	0.46
5:D5:68:ASP:N	5:D5:72:ASN:HD21	2.13	0.46
5:E5:39:GLU:OE1	7:C7:35:ARG:CA	2.62	0.46
5:F5:353:TYR:CZ	5:F5:368:LEU:HB3	2.50	0.46
5:H5:201:ILE:H	5:H5:201:ILE:HD12	1.79	0.46
5:H5:207:LYS:HE3	5:H5:271:HIS:CE1	2.50	0.46
5:J5:68:ASP:N	5:J5:72:ASN:HD21	2.13	0.46
5:J5:272:ARG:HD2	5:J5:272:ARG:C	2.35	0.46
5:J5:397:VAL:HG13	5:J5:397:VAL:O	2.15	0.46
6:A6:275:LYS:O	6:A6:275:LYS:HG2	2.16	0.46
6:B6:29:ILE:HG12	6:B6:240:MET:SD	2.56	0.46
6:C6:275:LYS:O	6:C6:275:LYS:HG2	2.15	0.46
6:E6:345:ASN:HA	6:E6:348:THR:HG22	1.97	0.46
2:A2:116:LEU:HD21	2:A2:124:PHE:CD2	2.50	0.46
3:B3:34:THR:HG22	3:C3:184:VAL:HG22	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:171:ARG:NH2	3:C3:152:ASP:HA	2.31	0.46
5:B5:321:LYS:HD2	5:C5:381:ARG:HD3	1.96	0.46
5:E5:314:VAL:HG11	5:E5:336:LEU:HD21	1.97	0.46
5:F5:207:LYS:NZ	5:F5:271:HIS:CE1	2.83	0.46
5:I5:36:THR:O	5:I5:36:THR:OG1	2.28	0.46
5:J5:161:GLU:HG2	5:J5:162:ILE:HG13	1.97	0.46
5:J5:191:ARG:NH1	5:J5:205:TYR:OH	2.48	0.46
5:K5:38:GLN:OE1	7:F7:49:ALA:HB1	2.14	0.46
6:A6:75:ASN:O	6:A6:78:SER:OG	2.24	0.46
6:A6:345:ASN:HA	6:A6:348:THR:HG22	1.97	0.46
6:B6:372:CYS:SG	6:B6:373:ASP:N	2.89	0.46
6:B6:407:MET:SD	6:B6:474:PRO:HD2	2.55	0.46
6:C6:29:ILE:HG12	6:C6:240:MET:SD	2.56	0.46
6:F6:29:ILE:HG12	6:F6:240:MET:SD	2.56	0.46
7:D7:24:SER:HB2	7:D7:106:TYR:OH	2.16	0.46
7:E7:24:SER:HB2	7:E7:106:TYR:OH	2.15	0.46
7:F7:28:ILE:HA	7:F7:31:THR:HG22	1.97	0.46
2:A2:68:ARG:HG2	2:A2:121:TYR:CG	2.50	0.46
2:B2:68:ARG:HG2	2:B2:121:TYR:CG	2.50	0.46
2:B2:116:LEU:HD21	2:B2:124:PHE:CD2	2.50	0.46
2:F2:14:LYS:HG3	7:F7:42:ASP:OD1	2.15	0.46
3:A3:34:THR:HG22	3:B3:184:VAL:HG22	1.97	0.46
3:A3:93:ILE:O	3:A3:93:ILE:HG23	2.15	0.46
3:D3:93:ILE:O	3:D3:93:ILE:HG23	2.15	0.46
4:B4:78:VAL:HG12	4:B4:101:LEU:HA	1.97	0.46
5:A5:314:VAL:HG11	5:A5:336:LEU:HD21	1.97	0.46
5:D5:115:THR:O	5:D5:115:THR:HG23	2.15	0.46
5:D5:313:TYR:CG	5:D5:374:GLY:HA2	2.51	0.46
5:E5:312:LEU:HB2	5:E5:390:LEU:HD21	1.96	0.46
5:H5:353:TYR:CZ	5:H5:368:LEU:HB3	2.50	0.46
5:L5:96:TRP:CZ3	5:L5:173:ALA:HB2	2.50	0.46
6:A6:29:ILE:HG12	6:A6:240:MET:SD	2.56	0.46
6:A6:489:GLU:OE2	7:F7:66:ILE:HG21	2.15	0.46
6:B6:275:LYS:HG2	6:B6:275:LYS:O	2.15	0.46
6:E6:113:ILE:HD11	6:E6:146:GLU:HA	1.98	0.46
6:F6:204:GLU:CD	6:F6:204:GLU:N	2.67	0.46
6:F6:279:ASN:OD1	6:F6:281:VAL:HG12	2.14	0.46
6:F6:407:MET:SD	6:F6:474:PRO:HD2	2.55	0.46
7:E7:51:ILE:HG22	7:E7:69:GLU:OE1	2.16	0.46
7:F7:91:THR:HG22	7:F7:96:GLN:HB3	1.98	0.46
1:B1:20:PHE:HA	1:B1:71:ASP:OD1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D1:63:ILE:HG22	1:D1:65:VAL:HG13	1.97	0.46
2:F2:68:ARG:HG2	2:F2:121:TYR:CG	2.50	0.46
5:A5:96:TRP:HB2	5:A5:122:TRP:CZ3	2.50	0.46
5:A5:218:GLN:CD	5:A5:235:ASN:HD21	2.19	0.46
5:A5:285:ILE:HG22	5:A5:299:VAL:HG12	1.98	0.46
5:D5:161:GLU:HG2	5:D5:162:ILE:HG13	1.96	0.46
5:E5:80:ILE:HG13	5:E5:81:GLY:N	2.30	0.46
5:G5:369:GLU:HG3	5:G5:377:TRP:CE3	2.51	0.46
5:H5:70:ASP:HA	5:H5:186:ARG:HD3	1.97	0.46
5:H5:272:ARG:O	5:H5:273:LEU:HD22	2.14	0.46
5:K5:350:ASP:OD1	5:K5:350:ASP:N	2.48	0.46
6:C6:372:CYS:SG	6:C6:373:ASP:N	2.89	0.46
6:E6:275:LYS:HG2	6:E6:275:LYS:O	2.15	0.46
6:E6:307:THR:O	6:E6:311:ARG:N	2.48	0.46
6:F6:307:THR:O	6:F6:311:ARG:N	2.48	0.46
7:D7:51:ILE:HG22	7:D7:69:GLU:OE1	2.15	0.46
7:E7:91:THR:HG22	7:E7:96:GLN:HB3	1.98	0.46
1:C1:20:PHE:HA	1:C1:71:ASP:OD1	2.16	0.46
2:E2:194:ILE:HG22	2:E2:195:THR:HG23	1.96	0.46
3:A3:22:ILE:HG23	3:A3:198:PHE:HZ	1.80	0.46
3:A3:37:TYR:OH	3:A3:173:TYR:OH	2.33	0.46
3:F3:81:GLN:HG2	3:F3:81:GLN:O	2.14	0.46
4:D4:67:ILE:HG13	4:D4:67:ILE:O	2.16	0.46
5:A5:62:TRP:NE1	5:A5:66:ASN:ND2	2.63	0.46
5:A5:353:TYR:HE2	5:L5:353:TYR:CE2	2.33	0.46
5:D5:218:GLN:NE2	5:D5:238:ILE:HD12	2.30	0.46
5:E5:258:GLY:N	5:E5:306:ARG:HH11	2.14	0.46
5:I5:4:THR:OG1	5:I5:6:ASN:OD1	2.31	0.46
5:J5:121:ASN:HB2	5:J5:142:SER:OG	2.15	0.46
5:J5:265:GLY:HA2	5:J5:268:VAL:HG22	1.98	0.46
5:K5:80:ILE:HG13	5:K5:81:GLY:N	2.30	0.46
5:L5:320:GLN:HB3	5:L5:327:ILE:CG2	2.45	0.46
6:A6:372:CYS:SG	6:A6:373:ASP:N	2.89	0.46
6:C6:407:MET:SD	6:C6:474:PRO:HD2	2.55	0.46
6:D6:222:THR:OG1	6:D6:223:LYS:N	2.49	0.46
6:E6:29:ILE:HG12	6:E6:240:MET:SD	2.56	0.46
6:E6:372:CYS:SG	6:E6:373:ASP:N	2.89	0.46
7:B7:24:SER:HB2	7:B7:106:TYR:OH	2.16	0.46
1:A1:20:PHE:HA	1:A1:71:ASP:OD1	2.16	0.46
1:F1:20:PHE:HA	1:F1:71:ASP:OD1	2.16	0.46
2:B2:62:ARG:O	5:D5:69:PRO:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:169:ASN:O	3:A3:170:PHE:HB2	2.16	0.46
3:B3:169:ASN:O	3:B3:170:PHE:HB2	2.16	0.46
3:D3:233:PRO:HG2	4:C4:17:LEU:HG	1.96	0.46
3:E3:144:LYS:HB3	3:E3:148:GLU:HB3	1.98	0.46
4:B4:1:MET:N	4:B4:108:GLU:OE1	2.47	0.46
4:C4:1:MET:N	4:C4:108:GLU:OE1	2.47	0.46
5:B5:313:TYR:CG	5:B5:374:GLY:HA2	2.51	0.46
5:D5:121:ASN:HB2	5:D5:142:SER:OG	2.16	0.46
5:D5:353:TYR:CE1	5:D5:368:LEU:HD23	2.50	0.46
5:G5:62:TRP:NE1	5:G5:66:ASN:ND2	2.64	0.46
5:G5:96:TRP:HB2	5:G5:122:TRP:CZ3	2.50	0.46
5:G5:363:TYR:CE1	5:G5:399:ILE:HD11	2.51	0.46
5:I5:346:TYR:HE1	5:I5:384:SER:C	2.19	0.46
5:J5:238:ILE:HA	5:J5:346:TYR:CE2	2.50	0.46
6:A6:23:ASN:OD1	6:A6:24:MET:N	2.37	0.46
6:B6:307:THR:O	6:B6:311:ARG:N	2.48	0.46
6:B6:311:ARG:NH2	6:B6:329:LYS:HD3	2.30	0.46
6:C6:124:PHE:O	6:C6:135:GLU:HA	2.15	0.46
6:C6:124:PHE:HE1	6:C6:195:ILE:HB	1.81	0.46
6:C6:222:THR:OG1	6:C6:223:LYS:N	2.49	0.46
6:C6:281:VAL:HG23	6:C6:294:CYS:SG	2.56	0.46
6:D6:124:PHE:O	6:D6:135:GLU:HA	2.15	0.46
6:D6:281:VAL:HG23	6:D6:294:CYS:SG	2.56	0.46
6:D6:407:MET:SD	6:D6:474:PRO:HD2	2.55	0.46
6:E6:37:LEU:CD1	6:E6:56:PHE:HZ	2.29	0.46
6:F6:385:ILE:HD13	6:F6:478:ILE:HD11	1.97	0.46
7:F7:51:ILE:HG22	7:F7:69:GLU:OE1	2.16	0.46
1:A1:24:TYR:CE1	1:A1:129:SER:HB3	2.51	0.46
1:D1:24:TYR:CE1	1:D1:129:SER:HB3	2.51	0.46
1:E1:20:PHE:HA	1:E1:71:ASP:OD1	2.16	0.46
1:E1:92:LYS:HZ1	6:E6:411:GLU:HG2	1.80	0.46
2:B2:136:PRO:HD3	5:D5:198:GLN:O	2.15	0.46
2:E2:121:TYR:O	2:E2:125:LEU:HG	2.15	0.46
3:C3:22:ILE:HG23	3:C3:198:PHE:HZ	1.80	0.46
3:D3:22:ILE:HG23	3:D3:198:PHE:HZ	1.80	0.46
3:F3:93:ILE:HG23	3:F3:93:ILE:O	2.15	0.46
4:C4:78:VAL:HG12	4:C4:101:LEU:HA	1.98	0.46
4:E4:67:ILE:O	4:E4:67:ILE:HG13	2.16	0.46
4:F4:67:ILE:HG13	4:F4:67:ILE:O	2.16	0.46
5:A5:25:GLY:O	5:A5:28:GLU:N	2.48	0.46
5:E5:100:ILE:HD11	5:E5:164:VAL:HG12	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G5:100:ILE:HD11	5:G5:164:VAL:HG12	1.96	0.46
5:H5:220:TYR:HB2	5:H5:253:TRP:HB3	1.97	0.46
5:H5:313:TYR:CG	5:H5:374:GLY:HA2	2.51	0.46
5:I5:96:TRP:HB2	5:I5:122:TRP:CZ3	2.51	0.46
5:I5:363:TYR:CE1	5:I5:399:ILE:HD11	2.50	0.46
5:J5:19:ARG:HA	5:J5:50:THR:HG21	1.97	0.46
5:K5:353:TYR:CD1	5:K5:368:LEU:HB3	2.50	0.46
5:L5:113:THR:HG23	5:L5:156:THR:OG1	2.16	0.46
5:L5:312:LEU:HD11	5:L5:347:VAL:HG11	1.98	0.46
6:A6:124:PHE:HE1	6:A6:195:ILE:HB	1.81	0.46
6:C6:307:THR:O	6:C6:311:ARG:N	2.48	0.46
6:D6:29:ILE:HG12	6:D6:240:MET:SD	2.56	0.46
6:D6:113:ILE:HD11	6:D6:146:GLU:HA	1.98	0.46
6:E6:124:PHE:O	6:E6:135:GLU:HA	2.15	0.46
6:F6:124:PHE:HE1	6:F6:195:ILE:HB	1.81	0.46
6:F6:372:CYS:SG	6:F6:373:ASP:N	2.89	0.46
1:A1:63:ILE:HG22	1:A1:65:VAL:HG13	1.97	0.46
1:A1:92:LYS:HZ1	6:A6:411:GLU:HG2	1.80	0.46
1:C1:10:GLN:HB3	1:D1:123:ASN:OD1	2.16	0.46
2:A2:137:TYR:CD1	5:A5:271:HIS:HA	2.51	0.46
2:A2:152:ASP:OD2	5:A5:87:VAL:HG21	2.16	0.46
2:C2:68:ARG:HG2	2:C2:121:TYR:CG	2.50	0.46
2:E2:48:ASP:CB	5:I5:78:GLN:HE21	2.27	0.46
2:F2:9:LEU:HD23	2:F2:9:LEU:HA	1.69	0.46
3:B3:164:THR:O	3:B3:176:MET:N	2.44	0.46
4:A4:75:ASP:OD1	4:A4:75:ASP:N	2.49	0.46
4:D4:84:ASN:O	4:D4:86:MET:N	2.46	0.46
4:F4:71:ASN:OD1	5:L5:90:PRO:HB3	2.16	0.46
5:A5:312:LEU:HB2	5:A5:390:LEU:HD21	1.98	0.46
5:A5:369:GLU:HG3	5:A5:377:TRP:CE3	2.51	0.46
5:B5:384:SER:OG	5:B5:388:GLY:O	2.30	0.46
5:D5:265:GLY:HA2	5:D5:268:VAL:HG22	1.98	0.46
5:E5:162:ILE:HD12	5:E5:162:ILE:N	2.28	0.46
5:F5:313:TYR:CG	5:F5:374:GLY:HA2	2.51	0.46
5:F5:353:TYR:CE2	5:G5:353:TYR:HE2	2.33	0.46
5:G5:348:ASP:HB3	5:G5:350:ASP:OD1	2.14	0.46
5:I5:214:VAL:HA	5:I5:258:GLY:O	2.15	0.46
5:J5:381:ARG:HD2	5:K5:321:LYS:HE3	1.97	0.46
5:K5:332:ILE:HB	5:K5:358:ILE:HD11	1.97	0.46
5:K5:383:PHE:CG	5:K5:384:SER:N	2.83	0.46
6:B6:57:GLY:O	6:B6:63:SER:OG	2.24	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:281:VAL:HG23	6:B6:294:CYS:SG	2.56	0.46
6:B6:385:ILE:HD13	6:B6:478:ILE:HD11	1.97	0.46
6:C6:385:ILE:HD13	6:C6:478:ILE:HD11	1.97	0.46
6:D6:37:LEU:CD1	6:D6:56:PHE:HZ	2.29	0.46
6:D6:385:ILE:HD13	6:D6:478:ILE:HD11	1.97	0.46
6:F6:113:ILE:HD11	6:F6:146:GLU:HA	1.98	0.46
6:F6:358:LYS:HE3	6:F6:358:LYS:HB3	1.78	0.46
7:A7:90:LYS:O	7:A7:91:THR:OG1	2.24	0.46
7:C7:51:ILE:HG22	7:C7:69:GLU:OE1	2.16	0.46
7:F7:91:THR:HB	7:F7:94:ARG:HA	1.98	0.46
1:B1:25:GLN:NE2	1:C1:124:GLN:OE1	2.49	0.46
1:D1:40:ARG:NH1	1:E1:135:GLU:O	2.49	0.46
1:D1:69:SER:O	1:D1:72:ASP:N	2.49	0.46
1:E1:69:SER:O	1:E1:72:ASP:N	2.49	0.46
2:C2:68:ARG:HG2	2:C2:121:TYR:CD1	2.51	0.46
2:D2:68:ARG:HG2	2:D2:121:TYR:CD1	2.51	0.46
2:D2:71:ASN:ND2	5:I5:362:ASN:H	2.14	0.46
2:D2:137:TYR:CD1	5:G5:271:HIS:HA	2.51	0.46
3:A3:144:LYS:HB3	3:A3:148:GLU:HB3	1.98	0.46
3:F3:224:ASP:OD1	3:F3:225:ALA:N	2.46	0.46
4:A4:67:ILE:HG13	4:A4:67:ILE:O	2.16	0.46
4:D4:55:ILE:HD13	4:D4:70:ARG:CG	2.46	0.46
4:E4:55:ILE:HD13	4:E4:70:ARG:CG	2.46	0.46
4:E4:75:ASP:N	4:E4:75:ASP:OD1	2.49	0.46
5:A5:39:GLU:OE1	7:A7:35:ARG:HG3	2.16	0.46
5:A5:312:LEU:HB3	5:A5:392:ILE:HD13	1.98	0.46
5:E5:312:LEU:HB3	5:E5:392:ILE:HD13	1.98	0.46
5:E5:321:LYS:HD2	5:E5:321:LYS:HA	1.39	0.46
5:F5:120:GLN:HB3	5:F5:122:TRP:NE1	2.30	0.46
5:I5:51:LEU:HD12	5:I5:51:LEU:HA	1.72	0.46
5:J5:115:THR:HG23	5:J5:115:THR:O	2.16	0.46
5:K5:332:ILE:HD11	5:K5:356:SER:HB2	1.98	0.46
5:L5:19:ARG:HA	5:L5:50:THR:HG21	1.97	0.46
6:B6:124:PHE:O	6:B6:135:GLU:HA	2.15	0.46
6:B6:489:GLU:OE2	7:A7:66:ILE:HG21	2.16	0.46
6:C6:345:ASN:HA	6:C6:348:THR:HG22	1.97	0.46
6:F6:222:THR:OG1	6:F6:223:LYS:N	2.49	0.46
6:F6:275:LYS:O	6:F6:275:LYS:HG2	2.16	0.46
7:A7:91:THR:HG22	7:A7:96:GLN:HB3	1.97	0.46
7:D7:91:THR:HB	7:D7:94:ARG:HA	1.98	0.46
1:B1:45:ASN:OD1	1:B1:46:GLY:N	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C2:15:GLN:NE2	7:C7:38:SER:HA	2.31	0.45
2:E2:68:ARG:HG2	2:E2:121:TYR:CG	2.50	0.45
3:B3:37:TYR:OH	3:B3:173:TYR:OH	2.33	0.45
3:B3:113:SER:HA	3:B3:116:ARG:NH1	2.31	0.45
3:B3:226:SER:N	4:A4:12:ILE:O	2.47	0.45
3:E3:22:ILE:HG23	3:E3:198:PHE:HZ	1.80	0.45
3:E3:37:TYR:OH	3:E3:173:TYR:OH	2.33	0.45
3:E3:82:LEU:HD12	7:D7:59:ARG:HD2	1.97	0.45
3:E3:215:SER:HB3	7:D7:47:MET:CE	2.46	0.45
4:A4:84:ASN:O	4:A4:86:MET:N	2.46	0.45
4:B4:67:ILE:O	4:B4:67:ILE:HG13	2.16	0.45
5:A5:236:PRO:O	5:A5:239:LEU:HG	2.16	0.45
5:B5:207:LYS:HE3	5:B5:271:HIS:CE1	2.50	0.45
5:D5:397:VAL:HG13	5:D5:397:VAL:O	2.16	0.45
5:E5:321:LYS:O	5:E5:321:LYS:HG3	2.16	0.45
5:E5:383:PHE:CG	5:E5:384:SER:N	2.83	0.45
5:I5:277:LYS:HG2	5:I5:278:GLY:N	2.32	0.45
5:J5:108:LEU:N	5:J5:127:ASP:HA	2.31	0.45
5:L5:220:TYR:HB2	5:L5:253:TRP:HB3	1.98	0.45
6:A6:222:THR:OG1	6:A6:223:LYS:N	2.49	0.45
6:B6:222:THR:OG1	6:B6:223:LYS:N	2.49	0.45
6:D6:345:ASN:HA	6:D6:348:THR:HG22	1.97	0.45
7:A7:91:THR:HB	7:A7:94:ARG:HA	1.98	0.45
7:C7:24:SER:HB2	7:C7:106:TYR:OH	2.15	0.45
7:C7:91:THR:HB	7:C7:94:ARG:HA	1.98	0.45
7:E7:91:THR:HB	7:E7:94:ARG:HA	1.98	0.45
1:A1:45:ASN:OD1	1:A1:46:GLY:N	2.49	0.45
1:E1:24:TYR:CE1	1:E1:129:SER:HB3	2.51	0.45
1:F1:101:LEU:HD12	1:F1:102:LYS:H	1.82	0.45
2:A2:121:TYR:O	2:A2:125:LEU:HG	2.15	0.45
2:C2:48:ASP:CB	5:E5:78:GLN:HE21	2.27	0.45
3:A3:152:ASP:HA	3:F3:171:ARG:NH2	2.31	0.45
3:B3:144:LYS:HB3	3:B3:148:GLU:HB3	1.98	0.45
3:F3:169:ASN:O	3:F3:170:PHE:HB2	2.16	0.45
4:E4:78:VAL:HG12	4:E4:101:LEU:HA	1.97	0.45
5:C5:258:GLY:N	5:C5:306:ARG:HH11	2.13	0.45
5:D5:255:VAL:HA	5:D5:305:ASP:O	2.16	0.45
5:E5:96:TRP:HB2	5:E5:122:TRP:CZ3	2.51	0.45
5:F5:19:ARG:HA	5:F5:50:THR:HG21	1.97	0.45
5:H5:255:VAL:HA	5:H5:305:ASP:O	2.17	0.45
5:H5:364:ASN:ND2	5:I5:348:ASP:OD1	2.38	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I5:155:PHE:CD2	5:I5:167:ILE:HG22	2.51	0.45
5:K5:45:ARG:HH12	5:L5:45:ARG:NH1	2.13	0.45
5:K5:260:SER:HB2	5:K5:263:ASP:HB2	1.98	0.45
5:L5:387:ASP:OD1	5:L5:387:ASP:N	2.46	0.45
6:A6:421:TYR:HA	6:A6:424:ASN:HB3	1.98	0.45
6:B6:345:ASN:HA	6:B6:348:THR:HG22	1.97	0.45
6:B6:358:LYS:HE3	6:B6:358:LYS:HB3	1.78	0.45
6:E6:31:THR:OG1	6:E6:62:GLU:OE2	2.28	0.45
6:E6:385:ILE:HD13	6:E6:478:ILE:HD11	1.97	0.45
6:F6:37:LEU:CD1	6:F6:56:PHE:HZ	2.29	0.45
7:A7:29:ALA:HA	7:A7:102:TYR:OH	2.17	0.45
7:D7:91:THR:HG22	7:D7:96:GLN:HB3	1.97	0.45
7:F7:24:SER:HB2	7:F7:106:TYR:OH	2.15	0.45
1:A1:67:LYS:HG2	1:A1:68:HIS:ND1	2.32	0.45
1:B1:67:LYS:HG2	1:B1:68:HIS:ND1	2.32	0.45
1:C1:69:SER:O	1:C1:72:ASP:N	2.49	0.45
1:D1:20:PHE:HA	1:D1:71:ASP:OD1	2.16	0.45
1:E1:45:ASN:OD1	1:E1:46:GLY:N	2.49	0.45
1:E1:63:ILE:HG22	1:E1:65:VAL:HG13	1.97	0.45
1:F1:63:ILE:HG22	1:F1:65:VAL:HG13	1.98	0.45
2:D2:68:ARG:HG2	2:D2:121:TYR:CG	2.50	0.45
2:E2:33:TRP:CE3	5:I5:56:ILE:HG13	2.51	0.45
2:E2:62:ARG:O	5:J5:69:PRO:HG2	2.16	0.45
3:D3:243:LEU:HB2	4:C4:108:GLU:OE2	2.16	0.45
4:B4:75:ASP:N	4:B4:75:ASP:OD1	2.49	0.45
4:C4:67:ILE:O	4:C4:67:ILE:HG13	2.16	0.45
4:F4:75:ASP:OD1	4:F4:75:ASP:N	2.49	0.45
5:F5:121:ASN:HB2	5:F5:142:SER:OG	2.16	0.45
5:F5:220:TYR:HB2	5:F5:253:TRP:HB3	1.98	0.45
5:G5:80:ILE:HG13	5:G5:81:GLY:N	2.31	0.45
5:G5:285:ILE:HG22	5:G5:299:VAL:HG12	1.97	0.45
5:K5:312:LEU:HB3	5:K5:392:ILE:HD13	1.98	0.45
5:L5:188:ARG:O	5:L5:192:SER:OG	2.24	0.45
5:L5:253:TRP:HE1	5:L5:305:ASP:HB3	1.81	0.45
6:A6:121:ASP:OD1	6:A6:121:ASP:N	2.50	0.45
6:B6:487:HIS:ND1	7:A7:94:ARG:HD2	2.32	0.45
6:D6:5:SER:HA	6:D6:8:ILE:O	2.17	0.45
6:D6:14:GLN:HG2	6:D6:15:GLU:H	1.81	0.45
6:E6:281:VAL:HG23	6:E6:294:CYS:SG	2.56	0.45
6:E6:298:LYS:N	6:E6:338:TYR:OH	2.50	0.45
7:A7:51:ILE:HG22	7:A7:69:GLU:OE1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:B7:51:ILE:HG22	7:B7:69:GLU:OE1	2.16	0.45
1:A1:101:LEU:HD12	1:A1:102:LYS:H	1.82	0.45
1:B1:24:TYR:CE1	1:B1:129:SER:HB3	2.51	0.45
1:D1:88:ASP:O	6:D6:416:LYS:HD2	2.15	0.45
1:F1:45:ASN:OD1	1:F1:46:GLY:N	2.49	0.45
1:F1:69:SER:O	1:F1:72:ASP:N	2.49	0.45
2:C2:137:TYR:CD1	5:E5:271:HIS:HA	2.51	0.45
3:B3:169:ASN:HD21	3:C3:185:ARG:HD2	1.81	0.45
3:C3:169:ASN:O	3:C3:170:PHE:HB2	2.16	0.45
3:E3:103:GLN:HB2	5:G5:144:TRP:CB	2.46	0.45
5:C5:285:ILE:HG22	5:C5:299:VAL:HG12	1.98	0.45
5:C5:363:TYR:CE1	5:C5:399:ILE:HD11	2.52	0.45
5:E5:7:GLU:O	5:F5:75:ASP:HB2	2.17	0.45
5:G5:39:GLU:OE2	7:D7:34:THR:C	2.55	0.45
5:G5:314:VAL:HG11	5:G5:336:LEU:HD21	1.98	0.45
5:I5:80:ILE:HG13	5:I5:81:GLY:N	2.31	0.45
5:I5:285:ILE:HG22	5:I5:299:VAL:HG12	1.98	0.45
5:K5:19:ARG:NH1	5:K5:23:GLU:OE1	2.47	0.45
5:K5:36:THR:O	5:K5:36:THR:OG1	2.27	0.45
5:K5:96:TRP:HB2	5:K5:122:TRP:CZ3	2.52	0.45
5:L5:23:GLU:OE2	5:L5:27:ARG:NH1	2.40	0.45
5:L5:313:TYR:CG	5:L5:374:GLY:HA2	2.51	0.45
5:L5:353:TYR:CZ	5:L5:368:LEU:HB3	2.51	0.45
6:A6:113:ILE:HD11	6:A6:146:GLU:HA	1.98	0.45
6:B6:298:LYS:N	6:B6:338:TYR:OH	2.50	0.45
6:C6:113:ILE:HD11	6:C6:146:GLU:HA	1.98	0.45
6:C6:246:LEU:O	6:C6:250:ILE:HG13	2.17	0.45
6:C6:298:LYS:N	6:C6:338:TYR:OH	2.50	0.45
6:C6:489:GLU:OE2	7:B7:66:ILE:HG21	2.17	0.45
6:D6:31:THR:OG1	6:D6:62:GLU:OE2	2.28	0.45
6:D6:124:PHE:HE1	6:D6:195:ILE:HB	1.81	0.45
7:B7:29:ALA:HA	7:B7:102:TYR:OH	2.17	0.45
7:F7:29:ALA:HA	7:F7:102:TYR:OH	2.17	0.45
1:E1:67:LYS:HG2	1:E1:68:HIS:ND1	2.32	0.45
2:D2:62:ARG:O	5:H5:69:PRO:HG2	2.16	0.45
3:F3:22:ILE:HG23	3:F3:198:PHE:HZ	1.80	0.45
4:A4:26:LEU:HD13	4:A4:76:PHE:CZ	2.52	0.45
4:C4:26:LEU:HD13	4:C4:76:PHE:CZ	2.52	0.45
4:D4:78:VAL:HG12	4:D4:101:LEU:HA	1.97	0.45
5:A5:42:ASP:OD1	7:A7:4:ARG:HD2	2.17	0.45
5:C5:314:VAL:HG11	5:C5:336:LEU:HD21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D5:207:LYS:HE3	5:D5:271:HIS:CE1	2.51	0.45
5:F5:42:ASP:HB2	7:C7:14:PHE:CE1	2.51	0.45
5:F5:208:LEU:HD12	5:F5:267:VAL:HG11	1.98	0.45
5:G5:236:PRO:O	5:G5:239:LEU:HG	2.16	0.45
5:K5:45:ARG:NH2	5:L5:45:ARG:NH2	2.64	0.45
6:B6:14:GLN:HG2	6:B6:15:GLU:H	1.81	0.45
6:B6:113:ILE:HD11	6:B6:146:GLU:HA	1.98	0.45
6:D6:372:CYS:SG	6:D6:373:ASP:N	2.89	0.45
6:E6:124:PHE:HE1	6:E6:195:ILE:HB	1.81	0.45
6:E6:222:THR:OG1	6:E6:223:LYS:N	2.49	0.45
6:F6:298:LYS:N	6:F6:338:TYR:OH	2.50	0.45
6:F6:421:TYR:HA	6:F6:424:ASN:HB3	1.98	0.45
7:B7:91:THR:HB	7:B7:94:ARG:HA	1.98	0.45
7:E7:35:ARG:NH1	7:E7:76:GLN:O	2.28	0.45
1:C1:24:TYR:CE1	1:C1:129:SER:HB3	2.51	0.45
1:C1:67:LYS:HG2	1:C1:68:HIS:ND1	2.32	0.45
1:F1:24:TYR:CE1	1:F1:129:SER:HB3	2.51	0.45
1:F1:67:LYS:HG2	1:F1:68:HIS:ND1	2.32	0.45
2:A2:155:ASP:HB2	2:A2:157:ARG:NH2	2.32	0.45
2:B2:68:ARG:HG2	2:B2:121:TYR:CD1	2.51	0.45
2:D2:192:ARG:O	5:H5:200:THR:OG1	2.33	0.45
2:E2:71:ASN:ND2	5:K5:362:ASN:H	2.14	0.45
3:A3:240:GLU:HG3	4:F4:2:ASN:OD1	2.16	0.45
3:C3:104:GLN:HE21	5:C5:182:PRO:HG3	1.81	0.45
3:C3:169:ASN:HD21	3:D3:185:ARG:HD2	1.81	0.45
4:A4:55:ILE:HD13	4:A4:70:ARG:CG	2.46	0.45
4:B4:84:ASN:O	4:B4:86:MET:N	2.46	0.45
4:C4:61:ALA:HB1	5:E5:186:ARG:CZ	2.47	0.45
5:A5:96:TRP:HE3	5:A5:122:TRP:CD2	2.35	0.45
5:A5:286:ASP:HB3	5:A5:298:ILE:HD11	1.99	0.45
5:C5:80:ILE:HG13	5:C5:81:GLY:N	2.31	0.45
5:C5:100:ILE:HD11	5:C5:164:VAL:HG12	1.98	0.45
5:C5:205:TYR:HD2	5:D5:288:LEU:HD23	1.82	0.45
5:F5:70:ASP:HA	5:F5:186:ARG:HD3	1.98	0.45
5:F5:199:SER:N	5:F5:271:HIS:HD1	2.15	0.45
5:F5:253:TRP:HE1	5:F5:305:ASP:HB3	1.81	0.45
5:I5:60:PHE:CZ	5:J5:59:ALA:HB1	2.50	0.45
5:L5:208:LEU:HD12	5:L5:267:VAL:HG11	1.99	0.45
6:A6:14:GLN:HG2	6:A6:15:GLU:H	1.81	0.45
6:C6:14:GLN:HG2	6:C6:15:GLU:H	1.81	0.45
6:C6:204:GLU:CD	6:C6:204:GLU:N	2.67	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:D6:204:GLU:CD	6:D6:204:GLU:N	2.67	0.45
6:E6:14:GLN:HG2	6:E6:15:GLU:H	1.81	0.45
7:A7:56:LEU:HB3	7:A7:66:ILE:CD1	2.45	0.45
7:E7:29:ALA:HA	7:E7:102:TYR:OH	2.17	0.45
1:B1:63:ILE:HG22	1:B1:65:VAL:HG13	1.97	0.45
1:C1:45:ASN:OD1	1:C1:46:GLY:N	2.49	0.45
1:C1:63:ILE:HG22	1:C1:65:VAL:HG13	1.98	0.45
2:D2:136:PRO:HD3	5:H5:198:GLN:O	2.17	0.45
2:D2:155:ASP:HB2	2:D2:157:ARG:NH2	2.32	0.45
2:E2:32:THR:CG2	5:J5:53:ARG:HD3	2.47	0.45
2:E2:61:GLY:HA3	2:E2:121:TYR:OH	2.17	0.45
2:F2:192:ARG:O	5:L5:200:THR:OG1	2.34	0.45
3:A3:135:PHE:HZ	3:F3:4:VAL:HG22	1.81	0.45
3:A3:233:PRO:HB2	4:F4:103:PHE:HD2	1.78	0.45
3:B3:103:GLN:HB2	5:A5:144:TRP:CB	2.46	0.45
3:F3:215:SER:OG	3:F3:217:SER:OG	2.25	0.45
4:A4:109:MET:HA	4:A4:109:MET:HE2	1.98	0.45
4:B4:85:GLY:H	5:C5:181:THR:HG21	1.81	0.45
4:C4:84:ASN:O	4:C4:86:MET:N	2.46	0.45
5:C5:4:THR:OG1	5:C5:6:ASN:OD1	2.31	0.45
5:C5:277:LYS:HG2	5:C5:278:GLY:N	2.31	0.45
5:C5:383:PHE:CG	5:C5:384:SER:N	2.85	0.45
5:D5:220:TYR:HB2	5:D5:253:TRP:HB3	1.99	0.45
5:E5:341:PHE:HB3	5:E5:345:GLN:OE1	2.15	0.45
5:F5:68:ASP:N	5:F5:72:ASN:HD21	2.14	0.45
5:F5:353:TYR:CZ	5:G5:353:TYR:HE2	2.35	0.45
5:H5:353:TYR:CE1	5:H5:368:LEU:HD23	2.52	0.45
5:I5:350:ASP:OD1	5:I5:350:ASP:N	2.49	0.45
5:L5:316:LEU:HB3	5:L5:399:ILE:HD13	1.99	0.45
6:A6:37:LEU:CD1	6:A6:56:PHE:HZ	2.29	0.45
6:A6:385:ILE:HD13	6:A6:478:ILE:HD11	1.97	0.45
6:B6:121:ASP:N	6:B6:121:ASP:OD1	2.49	0.45
6:B6:246:LEU:O	6:B6:250:ILE:HG13	2.17	0.45
6:B6:282:TRP:CZ3	6:B6:285:LYS:HD2	2.52	0.45
6:C6:5:SER:HA	6:C6:8:ILE:O	2.17	0.45
6:C6:37:LEU:CD1	6:C6:56:PHE:HZ	2.29	0.45
6:D6:38:SER:HB3	6:D6:93:GLU:OE2	2.17	0.45
6:E6:204:GLU:CD	6:E6:204:GLU:N	2.67	0.45
6:F6:14:GLN:HG2	6:F6:15:GLU:H	1.81	0.45
1:A1:22:HIS:N	1:A1:71:ASP:OD2	2.50	0.45
1:B1:101:LEU:HD12	1:B1:102:LYS:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C1:67:LYS:HD2	1:C1:128:ASP:HA	1.99	0.45
1:D1:37:LYS:NZ	1:E1:79:LYS:O	2.48	0.45
2:B2:155:ASP:HB2	2:B2:157:ARG:NH2	2.32	0.45
3:D3:131:LYS:HG3	3:D3:131:LYS:O	2.17	0.45
3:D3:144:LYS:HB3	3:D3:148:GLU:HB3	1.98	0.45
3:D3:148:GLU:OE1	3:D3:148:GLU:HA	2.17	0.45
4:C4:75:ASP:OD1	4:C4:75:ASP:N	2.49	0.45
5:C5:178:GLU:OE1	5:C5:178:GLU:N	2.45	0.45
5:C5:259:GLY:H	5:C5:306:ARG:HH12	1.64	0.45
5:F5:218:GLN:HE22	5:F5:238:ILE:HD12	1.82	0.45
5:G5:218:GLN:CD	5:G5:235:ASN:HD21	2.19	0.45
5:I5:286:ASP:HB3	5:I5:298:ILE:HD11	1.99	0.45
5:J5:255:VAL:HA	5:J5:305:ASP:O	2.16	0.45
6:C6:38:SER:HB3	6:C6:93:GLU:OE2	2.17	0.45
6:D6:246:LEU:O	6:D6:250:ILE:HG13	2.17	0.45
6:D6:354:LEU:HD13	6:D6:363:LEU:HD13	1.99	0.45
6:E6:38:SER:HB3	6:E6:93:GLU:OE2	2.17	0.45
6:F6:281:VAL:HG23	6:F6:294:CYS:SG	2.56	0.45
7:A7:24:SER:HB2	7:A7:106:TYR:OH	2.15	0.45
7:B7:91:THR:HG22	7:B7:96:GLN:HB3	1.98	0.45
1:B1:67:LYS:HD2	1:B1:128:ASP:HA	1.99	0.45
1:D1:45:ASN:OD1	1:D1:46:GLY:N	2.49	0.45
1:E1:67:LYS:HD2	1:E1:128:ASP:HA	1.99	0.45
1:E1:101:LEU:HD12	1:E1:102:LYS:H	1.81	0.45
2:F2:68:ARG:HG2	2:F2:121:TYR:CD1	2.52	0.45
3:D3:111:ILE:HD11	4:C4:84:ASN:HB2	1.98	0.45
3:F3:164:THR:O	3:F3:176:MET:N	2.44	0.45
4:B4:26:LEU:HD13	4:B4:76:PHE:CZ	2.52	0.45
5:B5:104:ARG:NH1	5:L5:119:ASN:N	2.58	0.45
5:B5:255:VAL:HA	5:B5:305:ASP:O	2.17	0.45
5:D5:5:PHE:HD1	5:D5:10:VAL:HG12	1.81	0.45
5:D5:156:THR:O	5:D5:158:ALA:N	2.50	0.45
5:E5:260:SER:HB2	5:E5:263:ASP:HB2	1.99	0.45
5:E5:346:TYR:HE1	5:E5:385:GLY:CA	2.29	0.45
5:G5:363:TYR:HE1	5:G5:399:ILE:HD11	1.80	0.45
5:H5:119:ASN:N	5:J5:104:ARG:NH1	2.58	0.45
5:I5:108:LEU:HD23	5:I5:112:TYR:OH	2.17	0.45
5:J5:387:ASP:OD1	5:J5:387:ASP:N	2.46	0.45
5:K5:96:TRP:HE3	5:K5:122:TRP:CD2	2.35	0.45
5:K5:346:TYR:HE1	5:K5:385:GLY:CA	2.29	0.45
5:L5:3:LEU:HA	5:L5:11:GLN:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L5:121:ASN:HB2	5:L5:142:SER:OG	2.16	0.45
5:L5:200:THR:HG23	5:L5:202:GLY:H	1.82	0.45
6:B6:421:TYR:HA	6:B6:424:ASN:HB3	1.98	0.45
6:D6:224:LEU:HD22	6:D6:245:ILE:HG23	1.99	0.45
6:E6:354:LEU:HD11	6:E6:361:GLN:HB3	1.99	0.45
6:F6:38:SER:HB3	6:F6:93:GLU:OE2	2.17	0.45
6:F6:494:SER:HB3	7:E7:101:SER:HB3	1.98	0.45
7:B7:93:LYS:HD2	7:B7:93:LYS:HA	1.82	0.45
1:A1:67:LYS:HD2	1:A1:128:ASP:HA	1.99	0.45
1:D1:67:LYS:HG2	1:D1:68:HIS:ND1	2.32	0.45
1:D1:67:LYS:HD2	1:D1:128:ASP:HA	1.99	0.45
1:E1:29:LEU:HB2	1:F1:121:ASP:OD1	2.16	0.45
2:A2:68:ARG:HG2	2:A2:121:TYR:CD1	2.51	0.45
2:B2:14:LYS:NZ	7:B7:39:TRP:CE3	2.80	0.45
2:C2:151:PHE:CE1	2:C2:156:GLY:HA2	2.52	0.45
2:E2:63:ILE:HD11	5:J5:80:ILE:HD11	1.98	0.45
2:E2:68:ARG:HG2	2:E2:121:TYR:CD1	2.51	0.45
2:F2:151:PHE:CE1	2:F2:156:GLY:HA2	2.52	0.45
3:E3:131:LYS:O	3:E3:131:LYS:HG3	2.17	0.45
3:F3:131:LYS:HG3	3:F3:131:LYS:O	2.17	0.45
3:F3:144:LYS:HB3	3:F3:148:GLU:HB3	1.98	0.45
4:D4:26:LEU:HD13	4:D4:76:PHE:CZ	2.52	0.45
4:F4:55:ILE:HD13	4:F4:70:ARG:CG	2.46	0.45
5:A5:353:TYR:HE2	5:L5:353:TYR:CZ	2.35	0.45
5:C5:77:GLN:NE2	5:C5:88:LEU:HD23	2.32	0.45
5:D5:218:GLN:HG3	5:D5:234:SER:OG	2.17	0.45
5:E5:286:ASP:HB3	5:E5:298:ILE:HD11	1.98	0.45
5:F5:68:ASP:O	5:F5:72:ASN:ND2	2.50	0.45
5:F5:312:LEU:HD23	5:F5:313:TYR:N	2.32	0.45
5:F5:316:LEU:HB3	5:F5:399:ILE:HD13	1.99	0.45
5:H5:353:TYR:CE2	5:I5:353:TYR:HE2	2.34	0.45
5:J5:200:THR:HG22	5:J5:203:SER:OG	2.17	0.45
5:K5:314:VAL:HG11	5:K5:336:LEU:HD21	1.98	0.45
6:A6:281:VAL:HG23	6:A6:294:CYS:SG	2.56	0.45
6:B6:5:SER:HA	6:B6:8:ILE:O	2.17	0.45
6:B6:37:LEU:CD1	6:B6:56:PHE:HZ	2.29	0.45
6:C6:354:LEU:HD13	6:C6:363:LEU:HD13	1.99	0.45
6:E6:242:ILE:O	6:E6:302:ARG:NH1	2.51	0.45
6:E6:455:VAL:HG22	6:E6:478:ILE:HG22	1.99	0.45
6:F6:455:VAL:HG22	6:F6:478:ILE:HG22	1.99	0.45
1:A1:69:SER:O	1:A1:72:ASP:N	2.49	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:22:HIS:N	1:B1:71:ASP:OD2	2.50	0.44
1:C1:33:PRO:HB3	1:C1:59:HIS:NE2	2.33	0.44
1:F1:67:LYS:HD2	1:F1:128:ASP:HA	1.99	0.44
2:A2:151:PHE:CE1	2:A2:156:GLY:HA2	2.52	0.44
2:B2:15:GLN:NE2	7:B7:37:LYS:C	2.70	0.44
2:B2:61:GLY:HA3	2:B2:121:TYR:OH	2.17	0.44
2:B2:152:ASP:OD2	5:C5:87:VAL:HG21	2.17	0.44
2:D2:151:PHE:CE1	2:D2:156:GLY:HA2	2.52	0.44
2:F2:33:TRP:CE3	5:K5:56:ILE:HG13	2.52	0.44
3:A3:171:ARG:NH2	3:B3:152:ASP:HA	2.32	0.44
3:E3:169:ASN:O	3:E3:170:PHE:HB2	2.16	0.44
5:B5:218:GLN:HG3	5:B5:234:SER:OG	2.18	0.44
5:C5:286:ASP:HB3	5:C5:298:ILE:HD11	1.99	0.44
5:D5:188:ARG:O	5:D5:192:SER:OG	2.23	0.44
5:F5:114:ILE:HG13	5:F5:115:THR:HG22	2.00	0.44
5:H5:108:LEU:N	5:H5:127:ASP:HA	2.31	0.44
5:J5:156:THR:O	5:J5:158:ALA:N	2.50	0.44
5:K5:363:TYR:CE1	5:K5:399:ILE:HD11	2.51	0.44
5:L5:200:THR:HG22	5:L5:203:SER:OG	2.17	0.44
6:C6:421:TYR:HA	6:C6:424:ASN:HB3	1.98	0.44
6:D6:242:ILE:O	6:D6:302:ARG:NH1	2.51	0.44
6:E6:8:ILE:HD12	7:C7:53:TRP:CZ3	2.53	0.44
6:E6:224:LEU:HD22	6:E6:245:ILE:HG23	1.99	0.44
6:E6:354:LEU:HD13	6:E6:363:LEU:HD13	1.99	0.44
7:B7:6:LEU:HD11	7:B7:30:GLN:HE21	1.82	0.44
1:C1:101:LEU:HD12	1:C1:102:LYS:H	1.82	0.44
1:E1:33:PRO:HB3	1:E1:59:HIS:NE2	2.33	0.44
2:E2:155:ASP:HB2	2:E2:157:ARG:NH2	2.32	0.44
3:C3:131:LYS:HG3	3:C3:131:LYS:O	2.17	0.44
3:F3:233:PRO:HG2	4:E4:17:LEU:HG	1.99	0.44
4:C4:55:ILE:HD13	4:C4:70:ARG:CG	2.46	0.44
5:A5:363:TYR:CE1	5:A5:399:ILE:HD11	2.53	0.44
5:B5:201:ILE:H	5:B5:201:ILE:HD12	1.82	0.44
5:G5:53:ARG:NE	5:G5:57:GLU:OE2	2.50	0.44
5:H5:266:GLU:HA	5:H5:284:TYR:HD1	1.80	0.44
5:I5:100:ILE:HD11	5:I5:164:VAL:HG12	1.98	0.44
5:J5:216:ASP:HB3	5:J5:343:ILE:HG12	1.98	0.44
5:K5:45:ARG:HH12	5:L5:45:ARG:NH2	2.13	0.44
5:K5:162:ILE:HD12	5:K5:162:ILE:N	2.29	0.44
5:K5:236:PRO:O	5:K5:239:LEU:HG	2.17	0.44
6:A6:5:SER:HA	6:A6:8:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A6:354:LEU:HD11	6:A6:361:GLN:HB3	1.99	0.44
6:A6:432:TRP:CZ3	6:A6:479:ALA:HB1	2.52	0.44
6:B6:124:PHE:HE1	6:B6:195:ILE:HB	1.81	0.44
6:D6:298:LYS:N	6:D6:338:TYR:OH	2.50	0.44
6:E6:5:SER:HA	6:E6:8:ILE:O	2.17	0.44
1:A1:33:PRO:HB3	1:A1:59:HIS:NE2	2.33	0.44
1:D1:101:LEU:HD12	1:D1:102:LYS:H	1.82	0.44
2:B2:30:ILE:CD1	5:C5:52:LEU:HD11	2.37	0.44
2:B2:48:ASP:CB	5:C5:78:GLN:HE21	2.26	0.44
2:B2:137:TYR:CD1	5:C5:271:HIS:HA	2.52	0.44
2:D2:61:GLY:HA3	2:D2:121:TYR:OH	2.17	0.44
2:D2:169:ARG:HE	2:D2:197:ARG:NH2	2.16	0.44
2:F2:63:ILE:HD11	5:L5:80:ILE:HD11	1.99	0.44
3:A3:131:LYS:HG3	3:A3:131:LYS:O	2.17	0.44
3:D3:35:VAL:HG22	3:E3:183:PRO:HG2	1.98	0.44
3:F3:148:GLU:OE1	3:F3:148:GLU:HA	2.17	0.44
4:F4:36:MET:CE	5:K5:62:TRP:HA	2.47	0.44
5:B5:188:ARG:O	5:B5:192:SER:OG	2.24	0.44
5:C5:245:VAL:HB	5:C5:386:TYR:CE2	2.52	0.44
5:F5:2:SER:HG	5:F5:13:ASN:HD22	1.58	0.44
5:G5:312:LEU:HB3	5:G5:392:ILE:HD13	1.98	0.44
5:H5:200:THR:HG22	5:H5:203:SER:OG	2.17	0.44
5:H5:245:VAL:HG22	5:H5:246:THR:H	1.82	0.44
5:I5:39:GLU:OE1	7:E7:35:ARG:HG3	2.18	0.44
5:I5:383:PHE:CG	5:I5:384:SER:N	2.85	0.44
5:J5:5:PHE:HD1	5:J5:10:VAL:HG12	1.82	0.44
5:J5:116:ASP:N	5:J5:154:SER:O	2.27	0.44
5:L5:124:LEU:HB3	5:L5:139:PHE:CD1	2.52	0.44
6:A6:298:LYS:N	6:A6:338:TYR:OH	2.50	0.44
6:E6:282:TRP:CZ3	6:E6:285:LYS:HD2	2.52	0.44
6:F6:282:TRP:CZ3	6:F6:285:LYS:HD2	2.52	0.44
7:D7:29:ALA:HA	7:D7:102:TYR:OH	2.17	0.44
1:B1:69:SER:O	1:B1:72:ASP:N	2.49	0.44
1:E1:33:PRO:CG	1:F1:116:GLN:HB2	2.47	0.44
2:C2:155:ASP:HB2	2:C2:157:ARG:NH2	2.32	0.44
2:D2:33:TRP:CE3	5:G5:56:ILE:HG13	2.52	0.44
2:D2:152:ASP:OD2	5:G5:87:VAL:HG21	2.18	0.44
2:F2:61:GLY:HA3	2:F2:121:TYR:OH	2.17	0.44
3:A3:98:PRO:HB3	5:K5:62:TRP:NE1	2.32	0.44
3:A3:148:GLU:OE1	3:A3:148:GLU:HA	2.17	0.44
3:C3:148:GLU:OE1	3:C3:148:GLU:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D4:75:ASP:OD1	4:D4:75:ASP:N	2.49	0.44
4:E4:26:LEU:HD13	4:E4:76:PHE:CZ	2.52	0.44
5:A5:45:ARG:HH22	5:B5:45:ARG:CZ	2.30	0.44
5:A5:80:ILE:HG13	5:A5:81:GLY:N	2.31	0.44
5:A5:321:LYS:HG3	5:L5:240:ASN:HB3	1.98	0.44
5:C5:53:ARG:NE	5:C5:57:GLU:OE2	2.48	0.44
5:E5:51:LEU:HA	5:E5:51:LEU:HD12	1.65	0.44
5:F5:23:GLU:OE2	5:F5:27:ARG:NH1	2.40	0.44
5:F5:200:THR:HG22	5:F5:203:SER:OG	2.17	0.44
5:F5:339:VAL:HG22	5:F5:355:GLN:HG2	2.00	0.44
5:I5:62:TRP:NE1	5:I5:66:ASN:ND2	2.66	0.44
5:I5:205:TYR:HD2	5:J5:288:LEU:HD23	1.82	0.44
5:J5:86:LEU:HD11	5:J5:189:ARG:HA	2.00	0.44
5:J5:313:TYR:CG	5:J5:374:GLY:HA2	2.51	0.44
5:J5:381:ARG:HH12	5:K5:321:LYS:HG3	1.82	0.44
5:K5:100:ILE:HD11	5:K5:164:VAL:HG12	1.97	0.44
5:K5:307:PRO:HB3	5:K5:387:ASP:HB3	2.00	0.44
5:L5:328:ASP:OD1	5:L5:328:ASP:N	2.43	0.44
6:A6:38:SER:HB3	6:A6:93:GLU:OE2	2.17	0.44
6:A6:455:VAL:HG22	6:A6:478:ILE:HG22	1.99	0.44
6:B6:432:TRP:CZ3	6:B6:479:ALA:HB1	2.52	0.44
6:C6:224:LEU:HD22	6:C6:245:ILE:HG23	1.99	0.44
6:C6:354:LEU:HD11	6:C6:361:GLN:HB3	1.99	0.44
6:D6:489:GLU:OE2	7:C7:66:ILE:HG21	2.17	0.44
6:F6:242:ILE:O	6:F6:302:ARG:NH1	2.50	0.44
1:D1:44:ILE:HG12	3:E3:30:ARG:HB2	2.00	0.44
1:F1:33:PRO:HB3	1:F1:59:HIS:NE2	2.33	0.44
2:A2:155:ASP:HB2	2:A2:157:ARG:HH22	1.82	0.44
3:A3:221:LYS:HG3	5:K5:54:PHE:CE2	2.53	0.44
3:D3:98:PRO:HB3	5:E5:62:TRP:CE2	2.52	0.44
4:B4:55:ILE:HD13	4:B4:70:ARG:CG	2.46	0.44
4:F4:26:LEU:HD13	4:F4:76:PHE:CZ	2.52	0.44
5:A5:319:THR:HA	5:A5:402:VAL:HB	1.98	0.44
5:B5:156:THR:O	5:B5:158:ALA:N	2.50	0.44
5:G5:72:ASN:N	5:G5:72:ASN:OD1	2.50	0.44
5:G5:96:TRP:HE3	5:G5:122:TRP:CD2	2.35	0.44
5:H5:14:THR:HG23	5:H5:17:GLU:H	1.83	0.44
5:I5:96:TRP:HE3	5:I5:122:TRP:CD2	2.36	0.44
5:K5:107:THR:HA	5:K5:128:VAL:O	2.18	0.44
6:A6:76:PRO:HD3	6:A6:310:ALA:O	2.18	0.44
6:A6:441:ARG:NH1	6:A6:445:VAL:HG21	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A6:488:GLU:O	6:A6:489:GLU:HG2	2.18	0.44
6:B6:38:SER:HB3	6:B6:93:GLU:OE2	2.17	0.44
6:E6:432:TRP:CZ3	6:E6:479:ALA:HB1	2.52	0.44
7:C7:91:THR:HG22	7:C7:96:GLN:HB3	1.98	0.44
7:F7:2:ARG:HB3	7:F7:21:TYR:CD2	2.50	0.44
1:B1:33:PRO:HB3	1:B1:59:HIS:NE2	2.33	0.44
1:B1:91:MET:HE3	1:B1:91:MET:HB3	1.89	0.44
1:D1:33:PRO:HB3	1:D1:59:HIS:NE2	2.33	0.44
1:D1:92:LYS:NZ	6:D6:415:GLU:OE2	2.49	0.44
1:E1:75:LEU:HD23	1:E1:75:LEU:HA	1.69	0.44
2:D2:14:LYS:HE3	6:E6:357:ILE:CG2	2.46	0.44
3:A3:113:SER:HA	3:A3:116:ARG:NH1	2.31	0.44
3:B3:8:VAL:HG13	7:A7:76:GLN:HG2	2.00	0.44
3:C3:144:LYS:HB3	3:C3:148:GLU:HB3	1.98	0.44
5:A5:321:LYS:NZ	5:L5:381:ARG:HD2	2.32	0.44
5:A5:350:ASP:OD1	5:A5:350:ASP:N	2.50	0.44
5:B5:108:LEU:N	5:B5:127:ASP:HA	2.31	0.44
5:B5:339:VAL:HG22	5:B5:355:GLN:HG2	1.99	0.44
5:C5:13:ASN:HD22	5:C5:14:THR:H	1.62	0.44
5:C5:60:PHE:CZ	5:D5:59:ALA:HB1	2.52	0.44
5:D5:207:LYS:NZ	5:D5:207:LYS:HB2	2.33	0.44
5:E5:27:ARG:HG3	5:E5:27:ARG:NH1	2.32	0.44
5:G5:211:ILE:HD11	5:G5:267:VAL:CG2	2.48	0.44
5:G5:286:ASP:HB3	5:G5:298:ILE:HD11	1.99	0.44
5:G5:350:ASP:OD1	5:G5:350:ASP:N	2.50	0.44
5:H5:218:GLN:HG3	5:H5:234:SER:OG	2.18	0.44
5:H5:312:LEU:HD23	5:H5:313:TYR:N	2.32	0.44
5:J5:241:GLY:HA2	5:J5:346:TYR:OH	2.17	0.44
5:J5:353:TYR:CE1	5:J5:368:LEU:HD23	2.52	0.44
5:K5:286:ASP:HB3	5:K5:298:ILE:HD11	1.99	0.44
5:K5:346:TYR:HE1	5:K5:385:GLY:HA3	1.83	0.44
6:B6:242:ILE:O	6:B6:302:ARG:NH1	2.51	0.44
6:B6:354:LEU:HD11	6:B6:361:GLN:HB3	1.99	0.44
6:C6:432:TRP:CZ3	6:C6:479:ALA:HB1	2.52	0.44
6:D6:421:TYR:HA	6:D6:424:ASN:HB3	1.98	0.44
6:D6:455:VAL:HG22	6:D6:478:ILE:HG22	1.99	0.44
6:E6:23:ASN:OD1	6:E6:24:MET:N	2.37	0.44
6:E6:72:THR:O	6:E6:75:ASN:HB3	2.18	0.44
6:E6:246:LEU:O	6:E6:250:ILE:HG13	2.17	0.44
6:E6:358:LYS:HE3	6:E6:358:LYS:HB3	1.78	0.44
6:F6:5:SER:HA	6:F6:8:ILE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F6:72:THR:O	6:F6:75:ASN:HB3	2.18	0.44
7:C7:6:LEU:HD11	7:C7:30:GLN:HE21	1.82	0.44
7:F7:88:VAL:HG13	7:F7:89:ILE:HG13	2.00	0.44
1:A1:124:GLN:OE1	1:F1:25:GLN:NE2	2.50	0.44
2:C2:169:ARG:HE	2:C2:197:ARG:NH2	2.16	0.44
3:A3:42:PRO:HD2	3:A3:55:ASP:O	2.18	0.44
3:A3:104:GLN:HE21	5:K5:182:PRO:HG3	1.82	0.44
3:C3:37:TYR:CD1	3:C3:61:ILE:HG12	2.53	0.44
3:C3:216:LYS:HB3	3:C3:216:LYS:HE3	1.87	0.44
3:D3:169:ASN:O	3:D3:170:PHE:HB2	2.16	0.44
3:F3:166:VAL:HB	3:F3:176:MET:HG3	2.00	0.44
4:C4:69:HIS:NE2	5:F5:75:ASP:OD2	2.51	0.44
5:A5:98:VAL:HG22	5:A5:169:ALA:HB2	2.00	0.44
5:A5:353:TYR:CD1	5:A5:368:LEU:HB3	2.50	0.44
5:D5:272:ARG:O	5:D5:273:LEU:HD22	2.17	0.44
5:E5:236:PRO:O	5:E5:239:LEU:HG	2.17	0.44
5:F5:124:LEU:HB3	5:F5:139:PHE:CD1	2.52	0.44
5:F5:200:THR:HG23	5:F5:202:GLY:H	1.83	0.44
5:F5:218:GLN:HG3	5:F5:234:SER:OG	2.18	0.44
5:H5:102:MET:HA	5:H5:164:VAL:HG21	2.00	0.44
5:J5:245:VAL:HG22	5:J5:246:THR:H	1.83	0.44
5:L5:218:GLN:HG3	5:L5:234:SER:OG	2.18	0.44
5:L5:264:ILE:O	5:L5:268:VAL:HG13	2.18	0.44
6:A6:246:LEU:O	6:A6:250:ILE:HG13	2.17	0.44
6:B6:340:ASP:HA	6:B6:343:ILE:HG22	2.00	0.44
6:C6:242:ILE:O	6:C6:302:ARG:NH1	2.51	0.44
6:C6:243:ASP:C	6:C6:302:ARG:HH12	2.21	0.44
6:C6:282:TRP:CZ3	6:C6:285:LYS:HD2	2.52	0.44
6:D6:72:THR:O	6:D6:75:ASN:HB3	2.18	0.44
6:D6:441:ARG:NH1	6:D6:445:VAL:HG21	2.33	0.44
6:E6:421:TYR:HA	6:E6:424:ASN:HB3	1.98	0.44
7:A7:2:ARG:HH11	7:A7:2:ARG:HG3	1.83	0.44
7:E7:88:VAL:HG13	7:E7:89:ILE:HG13	2.00	0.44
1:E1:22:HIS:CG	1:E1:69:SER:OG	2.71	0.44
2:A2:61:GLY:HA3	2:A2:121:TYR:OH	2.17	0.44
2:A2:169:ARG:HE	2:A2:197:ARG:NH2	2.16	0.44
2:C2:155:ASP:HB2	2:C2:157:ARG:HH22	1.82	0.44
2:E2:151:PHE:CE1	2:E2:156:GLY:HA2	2.52	0.44
3:B3:42:PRO:HD2	3:B3:55:ASP:O	2.18	0.44
5:B5:312:LEU:HD23	5:B5:313:TYR:N	2.32	0.44
5:D5:86:LEU:HD11	5:D5:189:ARG:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E5:285:ILE:HG22	5:E5:299:VAL:HG12	1.99	0.44
5:E5:346:TYR:HE1	5:E5:385:GLY:HA3	1.82	0.44
5:E5:363:TYR:OH	5:E5:365:VAL:HG12	2.18	0.44
5:F5:108:LEU:HD12	5:F5:112:TYR:HE2	1.83	0.44
5:J5:107:THR:HA	5:J5:127:ASP:HB2	2.00	0.44
5:J5:328:ASP:OD1	5:J5:328:ASP:N	2.43	0.44
5:J5:339:VAL:HG22	5:J5:355:GLN:HG2	2.00	0.44
5:J5:346:TYR:CE1	5:J5:383:PHE:CD2	3.05	0.44
5:L5:353:TYR:CE1	5:L5:368:LEU:HD23	2.53	0.44
6:A6:282:TRP:CZ3	6:A6:285:LYS:HD2	2.52	0.44
6:A6:494:SER:HB3	7:F7:101:SER:HB3	1.99	0.44
6:B6:76:PRO:HD3	6:B6:310:ALA:O	2.18	0.44
6:B6:109:GLU:HA	6:B6:147:LEU:HD21	1.99	0.44
6:B6:354:LEU:HD13	6:B6:363:LEU:HD13	1.99	0.44
6:D6:488:GLU:O	6:D6:489:GLU:HG2	2.18	0.44
6:F6:109:GLU:HA	6:F6:147:LEU:HD21	2.00	0.44
6:F6:243:ASP:C	6:F6:302:ARG:HH12	2.21	0.44
6:F6:354:LEU:HD11	6:F6:361:GLN:HB3	1.99	0.44
6:F6:432:TRP:CZ3	6:F6:479:ALA:HB1	2.52	0.44
7:C7:29:ALA:HA	7:C7:102:TYR:OH	2.17	0.44
7:D7:88:VAL:HG13	7:D7:89:ILE:HG13	2.00	0.44
7:F7:35:ARG:NH1	7:F7:76:GLN:O	2.28	0.44
1:A1:22:HIS:CG	1:A1:69:SER:OG	2.71	0.44
1:F1:22:HIS:N	1:F1:71:ASP:OD2	2.50	0.44
2:B2:151:PHE:CE1	2:B2:156:GLY:HA2	2.52	0.44
2:D2:14:LYS:HG2	6:E6:358:LYS:CD	2.48	0.44
2:F2:14:LYS:HE3	6:A6:357:ILE:CG2	2.45	0.44
2:F2:155:ASP:HB2	2:F2:157:ARG:HH22	1.82	0.44
2:F2:169:ARG:HE	2:F2:197:ARG:NH2	2.16	0.44
3:B3:131:LYS:O	3:B3:131:LYS:HG3	2.17	0.44
3:D3:37:TYR:CD1	3:D3:61:ILE:HG12	2.53	0.44
3:D3:46:LEU:HD23	3:E3:201:ILE:HG23	2.00	0.44
3:E3:148:GLU:OE1	3:E3:148:GLU:HA	2.17	0.44
4:F4:34:VAL:HG21	5:K5:62:TRP:CD1	2.52	0.44
5:A5:252:MET:HB2	5:A5:272:ARG:NE	2.33	0.44
5:A5:307:PRO:HB3	5:A5:387:ASP:HB3	2.00	0.44
5:B5:208:LEU:HD12	5:B5:267:VAL:HG11	2.00	0.44
5:D5:339:VAL:HG22	5:D5:355:GLN:HG2	2.00	0.44
5:F5:312:LEU:HD11	5:F5:347:VAL:HG11	1.98	0.44
5:G5:41:PRO:HB3	7:D7:12:TRP:CD1	2.53	0.44
6:B6:72:THR:O	6:B6:75:ASN:HB3	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:C6:109:GLU:HA	6:C6:147:LEU:HD21	2.00	0.44
6:C6:121:ASP:OD1	6:C6:121:ASP:N	2.49	0.44
6:D6:243:ASP:C	6:D6:302:ARG:HH12	2.21	0.44
6:D6:282:TRP:CZ3	6:D6:285:LYS:HD2	2.52	0.44
6:D6:432:TRP:CZ3	6:D6:479:ALA:HB1	2.52	0.44
6:E6:441:ARG:NH1	6:E6:445:VAL:HG21	2.33	0.44
6:F6:246:LEU:O	6:F6:250:ILE:HG13	2.17	0.44
6:F6:340:ASP:HA	6:F6:343:ILE:HG22	2.00	0.44
6:F6:354:LEU:HD13	6:F6:363:LEU:HD13	1.99	0.44
1:E1:24:TYR:CD2	1:E1:25:GLN:N	2.86	0.43
2:B2:14:LYS:HE3	6:C6:357:ILE:CG2	2.48	0.43
2:B2:121:TYR:CZ	2:B2:125:LEU:HD21	2.53	0.43
2:B2:155:ASP:HB2	2:B2:157:ARG:HH22	1.82	0.43
2:E2:63:ILE:CD1	5:J5:80:ILE:HD11	2.48	0.43
2:E2:136:PRO:HD3	5:J5:198:GLN:O	2.18	0.43
3:A3:37:TYR:CD1	3:A3:61:ILE:HG12	2.53	0.43
3:A3:166:VAL:HB	3:A3:176:MET:HG3	2.00	0.43
3:C3:42:PRO:HD2	3:C3:55:ASP:O	2.18	0.43
3:D3:42:PRO:HD2	3:D3:55:ASP:O	2.18	0.43
3:D3:231:GLN:HE21	4:C4:4:ILE:HG23	1.83	0.43
3:F3:42:PRO:HD2	3:F3:55:ASP:O	2.18	0.43
5:B5:253:TRP:HE1	5:B5:305:ASP:HB3	1.83	0.43
5:C5:96:TRP:HE3	5:C5:122:TRP:CD2	2.36	0.43
5:C5:346:TYR:HD2	5:C5:381:ARG:NH2	2.15	0.43
5:D5:68:ASP:O	5:D5:72:ASN:ND2	2.51	0.43
5:D5:312:LEU:HD23	5:D5:313:TYR:N	2.33	0.43
5:D5:321:LYS:NZ	5:E5:381:ARG:HE	2.16	0.43
5:F5:156:THR:O	5:F5:158:ALA:N	2.51	0.43
5:G5:312:LEU:HB2	5:G5:390:LEU:HD21	1.98	0.43
5:H5:253:TRP:HE1	5:H5:305:ASP:HB3	1.82	0.43
5:I5:108:LEU:HA	5:I5:109:PRO:HD3	1.87	0.43
5:I5:312:LEU:HD12	5:I5:347:VAL:HG11	2.00	0.43
5:J5:207:LYS:NZ	5:J5:207:LYS:HB2	2.33	0.43
5:L5:114:ILE:HG13	5:L5:115:THR:HG22	1.99	0.43
6:A6:295:LEU:HD12	6:A6:305:ALA:HA	2.00	0.43
6:B6:243:ASP:C	6:B6:302:ARG:HH12	2.21	0.43
6:C6:72:THR:O	6:C6:75:ASN:HB3	2.18	0.43
6:C6:340:ASP:HA	6:C6:343:ILE:HG22	2.00	0.43
6:C6:488:GLU:O	6:C6:489:GLU:HG2	2.18	0.43
6:E6:237:LYS:NZ	6:E6:261:ASN:O	2.36	0.43
6:E6:488:GLU:O	6:E6:489:GLU:HG2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F6:441:ARG:NH1	6:F6:445:VAL:HG21	2.33	0.43
7:F7:6:LEU:HD11	7:F7:30:GLN:HE21	1.82	0.43
1:B1:22:HIS:CG	1:B1:69:SER:OG	2.71	0.43
1:F1:24:TYR:CD2	1:F1:25:GLN:N	2.87	0.43
2:F2:155:ASP:HB2	2:F2:157:ARG:NH2	2.32	0.43
3:C3:69:VAL:HG21	3:C3:150:PHE:CG	2.54	0.43
3:D3:37:TYR:OH	3:D3:173:TYR:OH	2.33	0.43
3:E3:17:GLU:OE2	7:D7:62:THR:HG22	2.18	0.43
5:A5:41:PRO:HB3	7:A7:12:TRP:NE1	2.33	0.43
5:A5:107:THR:HA	5:A5:128:VAL:O	2.18	0.43
5:B5:68:ASP:O	5:B5:72:ASN:ND2	2.51	0.43
5:B5:200:THR:HG22	5:B5:203:SER:OG	2.18	0.43
5:B5:207:LYS:NZ	5:B5:207:LYS:HB2	2.33	0.43
5:E5:62:TRP:NE1	5:E5:66:ASN:ND2	2.65	0.43
5:E5:211:ILE:HD11	5:E5:267:VAL:CG2	2.48	0.43
5:H5:156:THR:O	5:H5:158:ALA:N	2.50	0.43
5:I5:236:PRO:O	5:I5:239:LEU:HG	2.18	0.43
5:L5:68:ASP:O	5:L5:72:ASN:ND2	2.51	0.43
5:L5:98:VAL:O	5:L5:136:GLU:HA	2.19	0.43
5:L5:156:THR:O	5:L5:158:ALA:N	2.51	0.43
5:L5:312:LEU:HD23	5:L5:313:TYR:N	2.33	0.43
6:A6:242:ILE:O	6:A6:302:ARG:NH1	2.50	0.43
6:A6:340:ASP:HA	6:A6:343:ILE:HG22	2.00	0.43
6:B6:441:ARG:NH1	6:B6:445:VAL:HG21	2.33	0.43
6:C6:23:ASN:OD1	6:C6:24:MET:N	2.37	0.43
6:D6:109:GLU:HA	6:D6:147:LEU:HD21	2.00	0.43
6:F6:76:PRO:HD3	6:F6:310:ALA:O	2.18	0.43
7:A7:6:LEU:HD11	7:A7:30:GLN:HE21	1.82	0.43
7:D7:6:LEU:HD11	7:D7:30:GLN:HE21	1.82	0.43
1:A1:44:ILE:HD13	3:C3:187:ASN:HA	2.00	0.43
1:F1:22:HIS:CG	1:F1:69:SER:OG	2.71	0.43
2:A2:121:TYR:CZ	2:A2:125:LEU:HD21	2.54	0.43
2:B2:63:ILE:CD1	5:D5:80:ILE:HD11	2.48	0.43
2:C2:13:ILE:HG22	7:C7:43:ASN:HB2	2.01	0.43
2:D2:14:LYS:HG3	7:D7:42:ASP:OD1	2.17	0.43
2:E2:155:ASP:HB2	2:E2:157:ARG:HH22	1.82	0.43
2:F2:136:PRO:HD3	5:L5:198:GLN:O	2.17	0.43
3:B3:104:GLN:HE21	5:A5:182:PRO:HG3	1.83	0.43
3:C3:106:GLN:HG2	3:C3:106:GLN:O	2.18	0.43
3:D3:114:GLN:HG2	5:C5:33:ASP:OD2	2.18	0.43
4:B4:61:ALA:HB1	5:C5:186:ARG:CZ	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B5:102:MET:HA	5:B5:164:VAL:HG21	2.00	0.43
5:C5:41:PRO:O	5:C5:45:ARG:HG3	2.18	0.43
5:C5:62:TRP:NE1	5:C5:66:ASN:ND2	2.66	0.43
5:C5:332:ILE:HB	5:C5:358:ILE:HD11	2.00	0.43
5:D5:321:LYS:HZ2	5:E5:381:ARG:NH2	2.13	0.43
5:F5:3:LEU:HD12	5:F5:57:GLU:CG	2.44	0.43
5:F5:216:ASP:HB3	5:F5:343:ILE:HG12	2.01	0.43
5:I5:39:GLU:OE1	7:E7:35:ARG:CG	2.67	0.43
5:I5:45:ARG:NH1	5:J5:45:ARG:HH22	2.12	0.43
5:K5:62:TRP:NE1	5:K5:66:ASN:ND2	2.66	0.43
5:L5:272:ARG:O	5:L5:273:LEU:HD22	2.18	0.43
6:B6:224:LEU:HD22	6:B6:245:ILE:HG23	1.99	0.43
6:B6:455:VAL:HG22	6:B6:478:ILE:HG22	1.99	0.43
6:C6:340:ASP:O	6:C6:343:ILE:HG22	2.19	0.43
6:C6:455:VAL:HG22	6:C6:478:ILE:HG22	1.99	0.43
6:D6:221:GLU:OE1	6:D6:221:GLU:N	2.44	0.43
6:F6:340:ASP:O	6:F6:343:ILE:HG22	2.19	0.43
7:A7:85:GLU:HB3	7:A7:100:LEU:HA	2.00	0.43
7:E7:90:LYS:O	7:E7:91:THR:OG1	2.24	0.43
7:F7:2:ARG:HH11	7:F7:2:ARG:HG3	1.83	0.43
1:C1:22:HIS:N	1:C1:71:ASP:OD2	2.50	0.43
1:D1:24:TYR:CD2	1:D1:25:GLN:N	2.87	0.43
1:D1:33:PRO:HG3	1:E1:116:GLN:HB2	1.99	0.43
2:A2:62:ARG:O	5:B5:69:PRO:HG2	2.18	0.43
2:D2:155:ASP:HB2	2:D2:157:ARG:HH22	1.82	0.43
3:A3:26:ARG:H	3:A3:26:ARG:HG2	1.66	0.43
3:B3:234:GLU:HA	4:A4:2:ASN:ND2	2.34	0.43
3:C3:166:VAL:HB	3:C3:176:MET:HG3	2.00	0.43
3:E3:104:GLN:HE21	5:G5:182:PRO:HG3	1.83	0.43
3:E3:171:ARG:NH2	3:F3:152:ASP:HA	2.33	0.43
3:E3:233:PRO:O	4:D4:2:ASN:ND2	2.49	0.43
5:E5:342:GLU:OE1	5:F5:292:ASN:ND2	2.52	0.43
5:L5:339:VAL:HG22	5:L5:355:GLN:HG2	2.00	0.43
6:C6:199:LEU:HD23	6:C6:199:LEU:HA	1.84	0.43
6:D6:354:LEU:HD11	6:D6:361:GLN:HB3	1.99	0.43
6:F6:224:LEU:HD22	6:F6:245:ILE:HG23	1.99	0.43
6:F6:488:GLU:O	6:F6:489:GLU:HG2	2.18	0.43
7:A7:88:VAL:HG13	7:A7:89:ILE:HG13	2.00	0.43
7:E7:6:LEU:HD11	7:E7:30:GLN:HE21	1.82	0.43
2:B2:169:ARG:HE	2:B2:197:ARG:NH2	2.16	0.43
2:E2:32:THR:HG21	5:J5:53:ARG:HD3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F2:121:TYR:CZ	2:F2:125:LEU:HD21	2.53	0.43
3:A3:69:VAL:HG21	3:A3:150:PHE:CG	2.54	0.43
3:A3:215:SER:HG	3:A3:217:SER:HG	1.57	0.43
3:B3:148:GLU:OE1	3:B3:148:GLU:HA	2.17	0.43
3:E3:166:VAL:HB	3:E3:176:MET:HG3	2.00	0.43
3:F3:8:VAL:HG13	7:E7:76:GLN:HG2	2.00	0.43
3:F3:30:ARG:NH2	3:F3:168:VAL:HA	2.34	0.43
3:F3:37:TYR:CD1	3:F3:61:ILE:HG12	2.53	0.43
3:F3:69:VAL:HG21	3:F3:150:PHE:CG	2.54	0.43
4:A4:62:LEU:HD12	5:A5:183:GLU:HB2	2.00	0.43
5:F5:220:TYR:CD2	5:F5:230:ILE:HD13	2.54	0.43
5:F5:245:VAL:HG22	5:F5:246:THR:H	1.83	0.43
5:F5:320:GLN:HB3	5:F5:327:ILE:CG2	2.48	0.43
5:G5:252:MET:HB2	5:G5:272:ARG:NE	2.34	0.43
5:G5:346:TYR:HE1	5:G5:385:GLY:CA	2.32	0.43
5:G5:353:TYR:CD1	5:G5:368:LEU:HB3	2.50	0.43
5:I5:77:GLN:NE2	5:I5:88:LEU:HD23	2.34	0.43
5:I5:314:VAL:HG11	5:I5:336:LEU:HD21	1.99	0.43
5:J5:253:TRP:HE1	5:J5:305:ASP:HB3	1.83	0.43
5:J5:312:LEU:HD23	5:J5:313:TYR:N	2.33	0.43
6:A6:185:TYR:CE2	6:A6:209:LEU:HD13	2.53	0.43
6:A6:354:LEU:HD13	6:A6:363:LEU:HD13	1.99	0.43
6:B6:295:LEU:HD12	6:B6:305:ALA:HA	2.00	0.43
6:B6:340:ASP:O	6:B6:343:ILE:HG22	2.19	0.43
6:D6:295:LEU:HD12	6:D6:305:ALA:HA	2.00	0.43
6:E6:243:ASP:C	6:E6:302:ARG:HH12	2.21	0.43
7:B7:2:ARG:HG3	7:B7:2:ARG:HH11	1.83	0.43
2:C2:61:GLY:HA3	2:C2:121:TYR:OH	2.17	0.43
2:C2:136:PRO:HD3	5:F5:198:GLN:O	2.19	0.43
2:F2:63:ILE:CD1	5:L5:80:ILE:HD11	2.49	0.43
3:B3:30:ARG:NH2	3:B3:168:VAL:HA	2.34	0.43
3:B3:166:VAL:HB	3:B3:176:MET:HG3	2.00	0.43
3:C3:56:ILE:O	3:D3:161:ARG:HD2	2.18	0.43
3:E3:42:PRO:HD2	3:E3:55:ASP:O	2.18	0.43
3:E3:164:THR:O	3:E3:176:MET:N	2.44	0.43
4:E4:61:ALA:HB1	5:I5:186:ARG:CZ	2.49	0.43
5:A5:45:ARG:NH2	5:B5:45:ARG:HE	2.15	0.43
5:A5:53:ARG:NE	5:A5:57:GLU:OE2	2.49	0.43
5:C5:350:ASP:OD1	5:C5:350:ASP:N	2.49	0.43
5:D5:253:TRP:HE1	5:D5:305:ASP:HB3	1.84	0.43
5:E5:96:TRP:HE3	5:E5:122:TRP:CD2	2.35	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F5:6:ASN:OD1	5:F5:7:GLU:HG3	2.19	0.43
5:H5:86:LEU:HD11	5:H5:189:ARG:HA	2.01	0.43
5:H5:200:THR:HG23	5:H5:202:GLY:H	1.84	0.43
5:J5:68:ASP:O	5:J5:72:ASN:ND2	2.51	0.43
5:J5:105:ALA:HA	5:J5:128:VAL:HG13	2.01	0.43
5:J5:321:LYS:NZ	5:K5:381:ARG:HE	2.16	0.43
5:K5:285:ILE:HG22	5:K5:299:VAL:HG12	1.99	0.43
5:K5:342:GLU:OE1	5:L5:292:ASN:ND2	2.52	0.43
5:L5:107:THR:HA	5:L5:127:ASP:HB2	2.01	0.43
5:L5:237:ASP:O	5:L5:240:ASN:ND2	2.46	0.43
6:C6:31:THR:OG1	6:C6:62:GLU:OE2	2.28	0.43
6:D6:121:ASP:OD1	6:D6:121:ASP:N	2.49	0.43
6:E6:185:TYR:CE2	6:E6:209:LEU:HD13	2.53	0.43
6:E6:340:ASP:HA	6:E6:343:ILE:HG22	2.00	0.43
6:E6:491:ILE:HG12	7:D7:98:ILE:CG1	2.44	0.43
1:C1:75:LEU:HD23	1:C1:75:LEU:HA	1.69	0.43
1:E1:90:SER:OG	6:E6:412:ASP:OD1	2.24	0.43
2:A2:15:GLN:HE21	7:A7:37:LYS:C	2.18	0.43
2:C2:121:TYR:CZ	2:C2:125:LEU:HD21	2.53	0.43
3:A3:98:PRO:HB3	5:K5:62:TRP:CE2	2.54	0.43
3:A3:184:VAL:HG22	3:F3:34:THR:HG22	2.00	0.43
3:B3:37:TYR:CD1	3:B3:61:ILE:HG12	2.53	0.43
3:C3:30:ARG:NH2	3:C3:168:VAL:HA	2.34	0.43
3:D3:8:VAL:HG13	7:C7:76:GLN:HG2	2.00	0.43
3:D3:166:VAL:HB	3:D3:176:MET:HG3	2.00	0.43
3:E3:216:LYS:HB3	3:E3:216:LYS:HE3	1.87	0.43
3:E3:239:GLY:O	3:E3:241:ARG:N	2.48	0.43
3:F3:106:GLN:O	3:F3:106:GLN:HG2	2.18	0.43
3:F3:113:SER:HA	3:F3:116:ARG:NH1	2.31	0.43
4:B4:36:MET:HE1	5:C5:62:TRP:HA	2.01	0.43
4:D4:88:PRO:HG3	4:D4:99:CYS:SG	2.59	0.43
4:E4:88:PRO:HG3	4:E4:99:CYS:SG	2.59	0.43
5:D5:34:ILE:HG21	5:E5:150:ILE:HD13	2.01	0.43
5:D5:200:THR:HG22	5:D5:203:SER:OG	2.18	0.43
5:F5:86:LEU:HD11	5:F5:189:ARG:HA	2.01	0.43
5:F5:272:ARG:O	5:F5:273:LEU:HD22	2.19	0.43
5:G5:27:ARG:HG3	5:G5:27:ARG:NH1	2.34	0.43
5:G5:162:ILE:HD12	5:G5:162:ILE:N	2.28	0.43
5:H5:107:THR:HA	5:H5:127:ASP:HB2	2.01	0.43
5:H5:114:ILE:HG13	5:H5:115:THR:HG22	2.01	0.43
5:H5:124:LEU:HB3	5:H5:139:PHE:CD1	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I5:13:ASN:HD22	5:I5:14:THR:H	1.63	0.43
5:J5:312:LEU:HD11	5:J5:347:VAL:HG11	2.01	0.43
5:K5:89:LEU:HB2	5:K5:180:GLU:OE1	2.18	0.43
6:A6:243:ASP:C	6:A6:302:ARG:HH12	2.21	0.43
6:C6:406:GLY:O	6:C6:410:ILE:HG13	2.19	0.43
6:D6:68:THR:O	6:D6:332:SER:OG	2.24	0.43
6:D6:147:LEU:HA	6:D6:150:VAL:HG22	2.01	0.43
6:D6:340:ASP:HA	6:D6:343:ILE:HG22	2.00	0.43
6:E6:87:TYR:OH	6:E6:89:ARG:HG2	2.19	0.43
2:C2:197:ARG:HG2	2:C2:198:TYR:N	2.32	0.43
3:A3:30:ARG:NH2	3:A3:168:VAL:HA	2.34	0.43
3:A3:159:PHE:CG	3:F3:9:GLU:OE1	2.72	0.43
3:C3:31:VAL:H	3:C3:67:GLY:HA2	1.84	0.43
3:D3:31:VAL:H	3:D3:67:GLY:HA2	1.84	0.43
3:D3:69:VAL:HG21	3:D3:150:PHE:CG	2.54	0.43
3:D3:97:LEU:HA	4:C4:34:VAL:HG23	2.01	0.43
3:D3:215:SER:OG	3:D3:217:SER:OG	2.25	0.43
3:E3:30:ARG:NH2	3:E3:168:VAL:HA	2.34	0.43
4:B4:36:MET:CE	5:C5:62:TRP:HA	2.49	0.43
5:A5:19:ARG:NH1	5:A5:23:GLU:OE1	2.49	0.43
5:A5:75:ASP:HB2	5:A5:78:GLN:HB3	1.99	0.43
5:B5:112:TYR:HD2	5:B5:124:LEU:HD21	1.84	0.43
5:B5:124:LEU:HB3	5:B5:139:PHE:CD1	2.54	0.43
5:C5:236:PRO:O	5:C5:239:LEU:HG	2.19	0.43
5:D5:96:TRP:CZ3	5:D5:173:ALA:HB2	2.50	0.43
5:D5:200:THR:HG23	5:D5:202:GLY:H	1.84	0.43
5:D5:316:LEU:HD21	5:D5:365:VAL:HG12	2.01	0.43
5:E5:45:ARG:CZ	5:F5:45:ARG:HH22	2.29	0.43
5:F5:66:ASN:CB	5:F5:76:MET:HG2	2.48	0.43
5:H5:218:GLN:HE22	5:H5:238:ILE:HD12	1.84	0.43
5:K5:321:LYS:HA	5:K5:321:LYS:HD3	1.34	0.43
5:L5:216:ASP:HB3	5:L5:343:ILE:HG12	2.00	0.43
5:L5:245:VAL:HG22	5:L5:246:THR:H	1.83	0.43
6:A6:109:GLU:HA	6:A6:147:LEU:HD21	2.00	0.43
6:B6:406:GLY:O	6:B6:410:ILE:HG13	2.19	0.43
6:C6:441:ARG:NH1	6:C6:445:VAL:HG21	2.33	0.43
6:D6:185:TYR:CE2	6:D6:209:LEU:HD13	2.53	0.43
6:D6:340:ASP:O	6:D6:343:ILE:HG22	2.19	0.43
6:F6:406:GLY:O	6:F6:410:ILE:HG13	2.19	0.43
7:B7:85:GLU:HB3	7:B7:100:LEU:HA	2.00	0.43
7:C7:88:VAL:HG13	7:C7:89:ILE:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B1:44:ILE:HG12	3:C3:30:ARG:HB2	2.01	0.43
1:C1:22:HIS:CG	1:C1:69:SER:HG	2.37	0.43
1:C1:42:ASN:O	3:E3:187:ASN:ND2	2.40	0.43
2:C2:12:LEU:HA	2:C2:12:LEU:HD23	1.91	0.43
2:C2:15:GLN:NE2	7:C7:37:LYS:O	2.44	0.43
3:B3:58:ASN:OD1	3:C3:158:TYR:CZ	2.72	0.43
3:D3:221:LYS:HG3	5:E5:54:PHE:CE2	2.54	0.43
3:E3:26:ARG:H	3:E3:26:ARG:HG2	1.66	0.43
3:E3:31:VAL:H	3:E3:67:GLY:HA2	1.83	0.43
3:E3:35:VAL:HG22	3:F3:183:PRO:HG2	2.01	0.43
3:E3:37:TYR:CD1	3:E3:61:ILE:HG12	2.53	0.43
3:E3:108:ILE:HG23	4:D4:89:TYR:CE2	2.54	0.43
3:E3:169:ASN:ND2	3:F3:185:ARG:HD2	2.33	0.43
3:F3:226:SER:N	4:E4:12:ILE:O	2.49	0.43
4:C4:61:ALA:HB3	5:E5:71:LEU:CD2	2.48	0.43
4:F4:84:ASN:O	4:F4:86:MET:N	2.47	0.43
5:A5:100:ILE:HD11	5:A5:164:VAL:HG12	1.99	0.43
5:A5:320:GLN:CD	5:A5:403:PRO:HA	2.39	0.43
5:A5:363:TYR:HE1	5:A5:399:ILE:HD11	1.84	0.43
5:B5:34:ILE:HG21	5:C5:150:ILE:HD13	2.01	0.43
5:B5:86:LEU:HD11	5:B5:189:ARG:HA	2.01	0.43
5:B5:266:GLU:HA	5:B5:284:TYR:HD1	1.80	0.43
5:D5:320:GLN:HB3	5:D5:327:ILE:CG2	2.48	0.43
5:F5:108:LEU:N	5:F5:127:ASP:HA	2.30	0.43
5:F5:222:ASN:ND2	5:F5:249:ALA:HA	2.34	0.43
5:F5:353:TYR:CE1	5:F5:368:LEU:HD23	2.53	0.43
5:I5:96:TRP:O	5:I5:138:THR:HA	2.19	0.43
5:J5:264:ILE:O	5:J5:268:VAL:HG13	2.19	0.43
6:A6:224:LEU:HD22	6:A6:245:ILE:HG23	1.99	0.43
6:B6:185:TYR:CE2	6:B6:209:LEU:HD13	2.53	0.43
6:B6:494:SER:HB3	7:A7:101:SER:HB3	2.00	0.43
6:C6:147:LEU:HA	6:C6:150:VAL:HG22	2.01	0.43
6:D6:76:PRO:HD3	6:D6:310:ALA:O	2.18	0.43
6:E6:406:GLY:O	6:E6:410:ILE:HG13	2.19	0.43
6:F6:185:TYR:CE2	6:F6:209:LEU:HD13	2.53	0.43
7:B7:88:VAL:HG13	7:B7:89:ILE:HG13	2.00	0.43
7:D7:85:GLU:HB3	7:D7:100:LEU:HA	2.00	0.43
1:C1:22:HIS:CG	1:C1:69:SER:OG	2.71	0.43
2:B2:33:TRP:CE3	5:C5:56:ILE:HG13	2.53	0.43
2:C2:32:THR:CG2	5:F5:53:ARG:HD3	2.49	0.43
2:D2:11:TYR:CE2	7:D7:44:PRO:HB2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:F2:32:THR:HG21	5:L5:53:ARG:HD3	2.00	0.43
2:F2:152:ASP:OD2	5:K5:87:VAL:HG21	2.19	0.43
3:B3:106:GLN:O	3:B3:106:GLN:HG2	2.18	0.43
3:E3:240:GLU:HG3	4:D4:2:ASN:OD1	2.19	0.43
4:C4:88:PRO:HG3	4:C4:99:CYS:SG	2.59	0.43
4:F4:85:GLY:H	5:K5:181:THR:HG21	1.83	0.43
5:A5:128:VAL:HG21	5:A5:137:VAL:HG21	2.01	0.43
5:B5:245:VAL:HG22	5:B5:246:THR:H	1.82	0.43
5:B5:251:THR:HG22	5:B5:252:MET:O	2.19	0.43
5:C5:96:TRP:O	5:C5:138:THR:HA	2.19	0.43
5:D5:124:LEU:HB3	5:D5:139:PHE:CD1	2.54	0.43
5:D5:208:LEU:HD12	5:D5:267:VAL:HG11	2.01	0.43
5:E5:353:TYR:CD1	5:E5:368:LEU:HB3	2.51	0.43
5:E5:363:TYR:CE2	5:E5:365:VAL:HG13	2.54	0.43
5:F5:99:THR:HG22	5:F5:136:GLU:HG2	2.01	0.43
5:F5:107:THR:HA	5:F5:127:ASP:HB2	2.00	0.43
5:G5:98:VAL:HG22	5:G5:169:ALA:HB2	2.00	0.43
5:H5:266:GLU:CG	5:H5:270:LYS:HZ2	2.32	0.43
5:I5:22:LEU:HA	5:I5:22:LEU:HD12	1.81	0.43
5:L5:6:ASN:OD1	5:L5:7:GLU:HG3	2.19	0.43
6:A6:267:VAL:HG21	6:A6:302:ARG:HA	2.01	0.43
7:C7:56:LEU:HB3	7:C7:66:ILE:CD1	2.45	0.43
7:D7:56:LEU:HB3	7:D7:66:ILE:CD1	2.45	0.43
7:F7:85:GLU:HB3	7:F7:100:LEU:HA	2.00	0.43
1:B1:143:PHE:HZ	1:C1:72:ASP:OD2	2.02	0.42
1:D1:22:HIS:CG	1:D1:69:SER:OG	2.71	0.42
1:D1:22:HIS:N	1:D1:71:ASP:OD2	2.50	0.42
2:B2:15:GLN:HG2	7:B7:34:THR:OG1	2.18	0.42
2:C2:14:LYS:NZ	7:C7:39:TRP:CE3	2.83	0.42
2:F2:14:LYS:HG2	6:A6:358:LYS:CD	2.49	0.42
3:B3:69:VAL:HG21	3:B3:150:PHE:CG	2.54	0.42
3:B3:224:ASP:OD1	3:B3:225:ALA:N	2.46	0.42
3:D3:30:ARG:NH2	3:D3:168:VAL:HA	2.34	0.42
3:E3:22:ILE:O	3:E3:22:ILE:HG22	2.19	0.42
4:B4:88:PRO:HG3	4:B4:99:CYS:SG	2.59	0.42
5:A5:346:TYR:HD2	5:A5:381:ARG:HH22	1.53	0.42
5:B5:200:THR:HG23	5:B5:202:GLY:H	1.84	0.42
5:B5:387:ASP:OD1	5:B5:387:ASP:N	2.48	0.42
5:C5:162:ILE:HD12	5:C5:162:ILE:N	2.34	0.42
5:C5:255:VAL:HG12	5:C5:305:ASP:HB2	2.01	0.42
5:F5:264:ILE:O	5:F5:268:VAL:HG13	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H5:112:TYR:HD2	5:H5:124:LEU:HD21	1.84	0.42
5:H5:208:LEU:HD12	5:H5:267:VAL:HG11	2.00	0.42
5:L5:66:ASN:CB	5:L5:76:MET:HG2	2.48	0.42
6:A6:72:THR:O	6:A6:75:ASN:HB3	2.18	0.42
6:A6:87:TYR:OH	6:A6:89:ARG:HG2	2.19	0.42
6:A6:340:ASP:O	6:A6:343:ILE:HG22	2.19	0.42
6:C6:76:PRO:HD3	6:C6:310:ALA:O	2.18	0.42
6:C6:295:LEU:HD12	6:C6:305:ALA:HA	2.00	0.42
6:D6:237:LYS:NZ	6:D6:261:ASN:O	2.36	0.42
6:E6:109:GLU:HA	6:E6:147:LEU:HD21	2.00	0.42
6:F6:295:LEU:HD12	6:F6:305:ALA:HA	2.00	0.42
1:A1:40:ARG:HD2	1:B1:135:GLU:OE1	2.19	0.42
2:B2:60:ILE:HA	2:B2:63:ILE:HG22	2.00	0.42
2:C2:123:LYS:HE2	2:C2:123:LYS:HB2	1.86	0.42
2:D2:121:TYR:CZ	2:D2:125:LEU:HD21	2.53	0.42
2:E2:169:ARG:HE	2:E2:197:ARG:NH2	2.16	0.42
2:E2:192:ARG:O	5:J5:200:THR:OG1	2.33	0.42
3:A3:31:VAL:H	3:A3:67:GLY:HA2	1.84	0.42
3:C3:171:ARG:NH2	3:D3:152:ASP:HA	2.34	0.42
3:E3:69:VAL:HG21	3:E3:150:PHE:CG	2.54	0.42
3:E3:137:GLY:HA3	7:C7:82:ARG:CD	2.49	0.42
5:A5:346:TYR:HE1	5:A5:385:GLY:CA	2.31	0.42
5:D5:98:VAL:O	5:D5:136:GLU:HA	2.19	0.42
5:D5:108:LEU:HD12	5:D5:112:TYR:HE2	1.84	0.42
5:D5:266:GLU:HA	5:D5:284:TYR:CD1	2.54	0.42
5:E5:52:LEU:HD23	5:E5:52:LEU:HA	1.88	0.42
5:E5:363:TYR:CE1	5:E5:399:ILE:HD11	2.53	0.42
5:F5:200:THR:H	5:F5:203:SER:HB2	1.85	0.42
5:F5:209:ALA:HA	5:F5:214:VAL:HG11	2.01	0.42
5:G5:75:ASP:HB2	5:G5:78:GLN:HB3	1.99	0.42
5:G5:252:MET:HE3	5:G5:272:ARG:HD2	2.01	0.42
5:I5:89:LEU:HD22	5:I5:289:THR:HG21	2.01	0.42
5:I5:255:VAL:HG12	5:I5:305:ASP:HB2	2.01	0.42
5:L5:222:ASN:ND2	5:L5:249:ALA:HA	2.34	0.42
6:B6:488:GLU:O	6:B6:489:GLU:HG2	2.18	0.42
6:C6:295:LEU:HB3	6:C6:304:PHE:CE2	2.54	0.42
6:D6:406:GLY:O	6:D6:410:ILE:HG13	2.19	0.42
1:E1:15:LEU:HD23	1:E1:89:GLY:HA3	2.02	0.42
1:E1:22:HIS:N	1:E1:71:ASP:OD2	2.50	0.42
1:F1:75:LEU:HA	1:F1:75:LEU:HD23	1.69	0.42
2:C2:117:THR:OG1	2:C2:120:GLN:OE1	2.38	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D2:60:ILE:HA	2:D2:63:ILE:HG22	2.00	0.42
2:E2:152:ASP:OD2	5:I5:87:VAL:HG21	2.18	0.42
2:F2:60:ILE:HA	2:F2:63:ILE:HG22	2.00	0.42
3:A3:158:TYR:HE1	3:F3:38:ARG:O	2.02	0.42
3:B3:31:VAL:H	3:B3:67:GLY:HA2	1.84	0.42
3:C3:114:GLN:HG2	5:A5:33:ASP:OD2	2.19	0.42
3:C3:164:THR:O	3:C3:176:MET:N	2.44	0.42
3:E3:85:ARG:NH2	7:D7:55:ASP:HB2	2.34	0.42
4:A4:88:PRO:HG3	4:A4:99:CYS:SG	2.59	0.42
4:C4:36:MET:HE2	4:C4:36:MET:HB3	1.90	0.42
5:A5:39:GLU:OE1	7:A7:35:ARG:HG2	2.19	0.42
5:B5:222:ASN:ND2	5:B5:249:ALA:HA	2.34	0.42
5:D5:358:ILE:O	5:D5:361:SER:OG	2.33	0.42
5:E5:252:MET:HB2	5:E5:272:ARG:NE	2.34	0.42
5:F5:272:ARG:HD3	5:F5:302:HIS:NE2	2.33	0.42
5:H5:222:ASN:ND2	5:H5:249:ALA:HA	2.34	0.42
5:I5:53:ARG:NE	5:I5:57:GLU:OE2	2.48	0.42
5:I5:320:GLN:HB2	5:I5:404:VAL:N	2.33	0.42
5:I5:353:TYR:CD1	5:I5:368:LEU:HB3	2.53	0.42
5:J5:73:THR:HG22	5:J5:186:ARG:NH2	2.34	0.42
5:K5:345:GLN:NE2	5:K5:347:VAL:HA	2.34	0.42
5:L5:3:LEU:HD13	5:L5:12:THR:HG22	2.00	0.42
5:L5:86:LEU:HD11	5:L5:189:ARG:HA	2.01	0.42
6:A6:406:GLY:O	6:A6:410:ILE:HG13	2.19	0.42
6:C6:185:TYR:CE2	6:C6:209:LEU:HD13	2.53	0.42
6:C6:186:LEU:O	6:C6:196:SER:HB2	2.20	0.42
6:D6:37:LEU:HD12	6:D6:56:PHE:CZ	2.54	0.42
6:D6:87:TYR:OH	6:D6:89:ARG:HG2	2.19	0.42
6:D6:295:LEU:HB3	6:D6:304:PHE:CE2	2.54	0.42
6:E6:295:LEU:HB3	6:E6:304:PHE:CE2	2.54	0.42
6:E6:340:ASP:O	6:E6:343:ILE:HG22	2.19	0.42
7:B7:56:LEU:HB3	7:B7:66:ILE:CD1	2.46	0.42
7:C7:2:ARG:HB3	7:C7:21:TYR:CD2	2.50	0.42
7:D7:2:ARG:HB3	7:D7:21:TYR:CD2	2.50	0.42
7:D7:2:ARG:HH11	7:D7:2:ARG:HG3	1.83	0.42
7:E7:2:ARG:HG3	7:E7:2:ARG:HH11	1.83	0.42
2:D2:12:LEU:HD23	5:G5:44:GLN:HE21	1.82	0.42
2:E2:121:TYR:CZ	2:E2:125:LEU:HD21	2.53	0.42
2:F2:15:GLN:HE21	7:F7:37:LYS:C	2.18	0.42
3:D3:106:GLN:O	3:D3:106:GLN:HG2	2.18	0.42
5:A5:381:ARG:CZ	5:L5:321:LYS:HE3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:B5:45:ARG:NH1	7:A7:14:PHE:CE1	2.87	0.42
5:B5:321:LYS:HZ2	5:C5:381:ARG:NE	2.17	0.42
5:C5:143:LEU:O	5:C5:145:GLY:N	2.52	0.42
5:C5:312:LEU:HD12	5:C5:347:VAL:HG11	2.02	0.42
5:C5:320:GLN:HB2	5:C5:404:VAL:N	2.34	0.42
5:D5:3:LEU:HD22	5:D5:57:GLU:HG2	2.02	0.42
5:E5:89:LEU:HB3	5:E5:177:ARG:NH1	2.35	0.42
5:E5:107:THR:HA	5:E5:128:VAL:O	2.18	0.42
5:E5:238:ILE:HD12	5:E5:238:ILE:HA	1.88	0.42
5:E5:307:PRO:HB3	5:E5:387:ASP:HB3	1.99	0.42
5:G5:41:PRO:HB3	7:D7:12:TRP:NE1	2.35	0.42
5:G5:60:PHE:CZ	5:H5:59:ALA:HB1	2.54	0.42
5:G5:102:MET:HG3	5:G5:130:VAL:CG2	2.45	0.42
5:G5:307:PRO:HB3	5:G5:387:ASP:HB3	2.00	0.42
5:H5:375:ILE:HG23	5:H5:376:ASP:CG	2.40	0.42
5:I5:238:ILE:HD12	5:I5:238:ILE:HA	1.89	0.42
5:J5:34:ILE:HG21	5:K5:150:ILE:HD13	2.00	0.42
5:J5:98:VAL:O	5:J5:136:GLU:HA	2.19	0.42
5:K5:51:LEU:HD12	5:K5:51:LEU:HA	1.68	0.42
5:L5:108:LEU:HD12	5:L5:112:TYR:HE2	1.83	0.42
5:L5:204:ILE:HD11	5:L5:271:HIS:O	2.20	0.42
6:B6:267:VAL:HG21	6:B6:302:ARG:HA	2.01	0.42
6:D6:267:VAL:HG21	6:D6:302:ARG:HA	2.01	0.42
6:E6:76:PRO:HD3	6:E6:310:ALA:O	2.18	0.42
6:E6:494:SER:HB3	7:D7:101:SER:HB3	2.00	0.42
7:E7:85:GLU:HB3	7:E7:100:LEU:HA	2.00	0.42
1:B1:24:TYR:CD2	1:B1:25:GLN:N	2.87	0.42
1:C1:49:SER:O	1:C1:49:SER:OG	2.37	0.42
2:A2:33:TRP:CE3	5:A5:56:ILE:HG13	2.54	0.42
2:A2:136:PRO:HD3	5:B5:198:GLN:O	2.19	0.42
3:E3:169:ASN:HD21	3:F3:185:ARG:CD	2.32	0.42
3:F3:22:ILE:HG22	3:F3:22:ILE:O	2.19	0.42
3:F3:215:SER:HG	3:F3:217:SER:HG	1.57	0.42
3:F3:243:LEU:HB2	4:E4:108:GLU:OE2	2.20	0.42
4:F4:88:PRO:HG3	4:F4:99:CYS:SG	2.59	0.42
5:A5:148:SER:OG	7:F7:16:ARG:NE	2.49	0.42
5:B5:353:TYR:CE1	5:B5:368:LEU:HD23	2.54	0.42
5:D5:107:THR:HA	5:D5:127:ASP:HB2	2.00	0.42
5:D5:245:VAL:HG22	5:D5:246:THR:H	1.83	0.42
5:E5:19:ARG:NH1	5:E5:23:GLU:OE1	2.48	0.42
5:F5:207:LYS:HZ3	5:F5:271:HIS:CE1	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H5:207:LYS:HB2	5:H5:207:LYS:NZ	2.33	0.42
5:H5:251:THR:HG22	5:H5:252:MET:O	2.19	0.42
5:I5:245:VAL:HB	5:I5:386:TYR:CE2	2.54	0.42
5:J5:112:TYR:HD2	5:J5:124:LEU:HD21	1.85	0.42
5:J5:218:GLN:HG3	5:J5:234:SER:OG	2.19	0.42
5:J5:314:VAL:CG2	5:J5:397:VAL:HG23	2.50	0.42
5:J5:375:ILE:HG23	5:J5:376:ASP:CG	2.40	0.42
5:K5:45:ARG:NH2	5:L5:45:ARG:CZ	2.74	0.42
5:K5:353:TYR:HD1	5:K5:368:LEU:HD13	1.84	0.42
5:L5:73:THR:HG22	5:L5:186:ARG:HH22	1.84	0.42
5:L5:124:LEU:HB3	5:L5:139:PHE:HD1	1.85	0.42
5:L5:218:GLN:HE22	5:L5:238:ILE:HD12	1.83	0.42
6:E6:416:LYS:HB3	6:E6:416:LYS:HE2	1.86	0.42
7:D7:90:LYS:O	7:D7:91:THR:OG1	2.24	0.42
1:E1:23:LEU:HD13	1:E1:28:ALA:HB1	2.02	0.42
1:E1:33:PRO:HG3	1:F1:116:GLN:HB2	2.02	0.42
1:F1:22:HIS:CG	1:F1:69:SER:HG	2.38	0.42
2:A2:32:THR:CG2	5:B5:53:ARG:HD3	2.49	0.42
2:D2:48:ASP:H	5:G5:78:GLN:HE22	1.66	0.42
2:D2:146:LEU:O	2:D2:150:VAL:HG12	2.20	0.42
3:A3:35:VAL:HG22	3:B3:183:PRO:HG2	2.02	0.42
3:F3:31:VAL:H	3:F3:67:GLY:HA2	1.84	0.42
5:A5:27:ARG:HG3	5:A5:27:ARG:NH1	2.34	0.42
5:A5:143:LEU:O	5:A5:145:GLY:N	2.52	0.42
5:B5:14:THR:HG23	5:B5:17:GLU:H	1.85	0.42
5:B5:314:VAL:CG2	5:B5:397:VAL:HG23	2.50	0.42
5:C5:45:ARG:NH1	5:D5:45:ARG:HH22	2.13	0.42
5:D5:112:TYR:HD2	5:D5:124:LEU:HD21	1.85	0.42
5:D5:222:ASN:ND2	5:D5:249:ALA:HA	2.35	0.42
5:E5:22:LEU:HD12	5:E5:22:LEU:HA	1.80	0.42
5:G5:3:LEU:H	5:G5:13:ASN:HB2	1.83	0.42
5:G5:22:LEU:HD12	5:G5:22:LEU:HA	1.83	0.42
5:H5:68:ASP:O	5:H5:72:ASN:ND2	2.52	0.42
5:J5:108:LEU:HD12	5:J5:112:TYR:HE2	1.84	0.42
5:J5:124:LEU:HB3	5:J5:139:PHE:CD1	2.54	0.42
5:K5:252:MET:HB2	5:K5:272:ARG:NE	2.34	0.42
6:B6:36:VAL:HG12	6:B6:56:PHE:CE1	2.55	0.42
6:B6:87:TYR:OH	6:B6:89:ARG:HG2	2.19	0.42
6:C6:87:TYR:OH	6:C6:89:ARG:HG2	2.19	0.42
6:D6:354:LEU:HD12	6:D6:354:LEU:HA	1.87	0.42
6:E6:147:LEU:HA	6:E6:150:VAL:HG22	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:E6:295:LEU:HD12	6:E6:305:ALA:HA	2.00	0.42
6:F6:36:VAL:HG12	6:F6:56:PHE:CE1	2.55	0.42
1:A1:79:LYS:O	1:F1:37:LYS:NZ	2.53	0.42
1:A1:88:ASP:O	6:A6:416:LYS:HD2	2.19	0.42
1:B1:23:LEU:HD13	1:B1:28:ALA:HB1	2.02	0.42
2:E2:14:LYS:HG2	6:F6:358:LYS:CD	2.50	0.42
2:E2:60:ILE:HA	2:E2:63:ILE:HG22	2.00	0.42
3:C3:22:ILE:O	3:C3:22:ILE:HG22	2.19	0.42
3:D3:169:ASN:HD21	3:E3:185:ARG:HD2	1.85	0.42
4:B4:31:GLU:OE2	4:B4:38:LYS:HE2	2.20	0.42
4:D4:66:HIS:CD2	5:G5:71:LEU:HD21	2.54	0.42
5:A5:39:GLU:OE2	7:A7:34:THR:C	2.58	0.42
5:B5:321:LYS:HZ3	5:C5:381:ARG:CZ	2.33	0.42
5:E5:108:LEU:HD23	5:E5:112:TYR:CE1	2.55	0.42
5:E5:141:SER:OG	5:E5:142:SER:N	2.53	0.42
5:E5:195:ASN:ND2	5:F5:266:GLU:OE2	2.52	0.42
5:F5:93:ARG:NH2	5:F5:142:SER:HA	2.32	0.42
5:G5:107:THR:HA	5:G5:128:VAL:O	2.18	0.42
5:G5:143:LEU:O	5:G5:145:GLY:N	2.52	0.42
5:H5:264:ILE:O	5:H5:268:VAL:HG13	2.20	0.42
5:H5:314:VAL:CG2	5:H5:397:VAL:HG23	2.50	0.42
5:J5:93:ARG:NH2	5:J5:142:SER:HA	2.34	0.42
5:J5:119:ASN:N	5:L5:104:ARG:NH1	2.58	0.42
5:J5:266:GLU:HA	5:J5:284:TYR:CD1	2.54	0.42
5:K5:89:LEU:HB3	5:K5:177:ARG:NH1	2.34	0.42
5:L5:375:ILE:HG23	5:L5:376:ASP:CG	2.40	0.42
6:A6:147:LEU:HA	6:A6:150:VAL:HG22	2.01	0.42
6:B6:295:LEU:HB3	6:B6:304:PHE:CE2	2.54	0.42
6:E6:267:VAL:HG21	6:E6:302:ARG:HA	2.01	0.42
6:E6:302:ARG:HA	6:E6:302:ARG:HD2	1.87	0.42
7:A7:2:ARG:HB3	7:A7:21:TYR:CD2	2.50	0.42
7:C7:2:ARG:HH11	7:C7:2:ARG:HG3	1.83	0.42
7:C7:85:GLU:HB3	7:C7:100:LEU:HA	2.00	0.42
1:E1:37:LYS:HG3	1:E1:38:THR:HG23	2.02	0.42
2:A2:48:ASP:H	5:A5:78:GLN:HE22	1.67	0.42
2:B2:71:ASN:ND2	5:E5:362:ASN:H	2.18	0.42
2:B2:146:LEU:O	2:B2:150:VAL:HG12	2.20	0.42
2:C2:60:ILE:HA	2:C2:63:ILE:HG22	2.01	0.42
2:F2:30:ILE:CD1	5:K5:52:LEU:HD11	2.35	0.42
3:A3:107:ARG:HG2	4:F4:84:ASN:HB3	2.01	0.42
3:E3:87:PHE:HD2	7:D7:41:ASN:ND2	2.05	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:30:TYR:HB2	4:A4:37:TRP:CH2	2.55	0.42
4:B4:42:VAL:HG23	4:B4:42:VAL:O	2.20	0.42
4:E4:30:TYR:HB2	4:E4:37:TRP:CH2	2.55	0.42
4:E4:36:MET:HB3	4:E4:36:MET:HE2	1.90	0.42
4:E4:60:LEU:HA	4:E4:66:HIS:CE1	2.55	0.42
5:A5:150:ILE:HD13	5:L5:34:ILE:HG21	2.00	0.42
5:G5:19:ARG:NH1	5:G5:23:GLU:OE1	2.49	0.42
5:G5:205:TYR:HD2	5:H5:288:LEU:HD23	1.84	0.42
5:H5:6:ASN:OD1	5:H5:7:GLU:N	2.51	0.42
5:H5:66:ASN:CB	5:H5:76:MET:HG2	2.50	0.42
5:I5:3:LEU:H	5:I5:13:ASN:HB2	1.85	0.42
5:J5:200:THR:HG23	5:J5:202:GLY:H	1.85	0.42
5:J5:320:GLN:HB3	5:J5:327:ILE:CG2	2.48	0.42
5:K5:39:GLU:OE1	7:F7:35:ARG:HA	2.19	0.42
5:L5:220:TYR:CD2	5:L5:230:ILE:HD13	2.54	0.42
6:A6:186:LEU:O	6:A6:196:SER:HB2	2.20	0.42
6:B6:147:LEU:HA	6:B6:150:VAL:HG22	2.01	0.42
6:C6:37:LEU:HD12	6:C6:56:PHE:CZ	2.54	0.42
7:B7:2:ARG:HB3	7:B7:21:TYR:CD2	2.50	0.42
1:C1:23:LEU:HD13	1:C1:28:ALA:HB1	2.02	0.42
1:C1:24:TYR:CD2	1:C1:25:GLN:N	2.87	0.42
2:A2:60:ILE:HA	2:A2:63:ILE:HG22	2.00	0.42
2:D2:46:ASN:HB3	5:H5:5:PHE:CE2	2.54	0.42
2:E2:146:LEU:O	2:E2:150:VAL:HG12	2.20	0.42
3:A3:215:SER:OG	3:A3:217:SER:OG	2.25	0.42
3:D3:215:SER:HG	3:D3:217:SER:HG	1.63	0.42
3:D3:224:ASP:OD1	3:D3:225:ALA:N	2.46	0.42
4:B4:30:TYR:HB2	4:B4:37:TRP:CH2	2.55	0.42
4:C4:31:GLU:OE2	4:C4:38:LYS:HE2	2.20	0.42
4:D4:60:LEU:HA	4:D4:66:HIS:CE1	2.55	0.42
4:F4:30:TYR:HB2	4:F4:37:TRP:CH2	2.55	0.42
5:B5:114:ILE:HG13	5:B5:115:THR:HG22	2.01	0.42
5:B5:316:LEU:HB3	5:B5:399:ILE:HD13	2.02	0.42
5:B5:353:TYR:CE1	5:B5:368:LEU:HB3	2.55	0.42
5:C5:346:TYR:HE1	5:C5:384:SER:C	2.23	0.42
5:D5:108:LEU:N	5:D5:127:ASP:HA	2.30	0.42
5:D5:220:TYR:CD2	5:D5:230:ILE:HD13	2.55	0.42
5:D5:261:LEU:HD22	5:D5:282:VAL:HG12	2.02	0.42
5:F5:73:THR:HG22	5:F5:186:ARG:HH22	1.84	0.42
5:F5:124:LEU:HB3	5:F5:139:PHE:HD1	1.85	0.42
5:F5:251:THR:HG22	5:F5:252:MET:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:H5:353:TYR:CZ	5:I5:353:TYR:HE2	2.38	0.42
5:K5:200:THR:HG21	5:L5:272:ARG:O	2.20	0.42
6:E6:186:LEU:O	6:E6:196:SER:HB2	2.20	0.42
7:A7:51:ILE:HG23	7:A7:73:VAL:CG2	2.50	0.42
7:B7:51:ILE:HG23	7:B7:73:VAL:CG2	2.50	0.42
7:D7:51:ILE:HG23	7:D7:73:VAL:CG2	2.50	0.42
1:A1:24:TYR:CD2	1:A1:25:GLN:N	2.87	0.42
1:B1:22:HIS:CG	1:B1:69:SER:HG	2.38	0.42
1:B1:37:LYS:HG3	1:B1:38:THR:HG23	2.02	0.42
1:D1:15:LEU:HD23	1:D1:89:GLY:HA3	2.02	0.42
2:D2:8:TYR:CE1	3:E3:93:ILE:HD11	2.55	0.42
2:F2:32:THR:CG2	5:L5:53:ARG:HD3	2.50	0.42
2:F2:48:ASP:CB	5:K5:78:GLN:HE21	2.27	0.42
3:B3:11:LEU:HD22	3:C3:144:LYS:NZ	2.35	0.42
3:C3:164:THR:N	3:C3:176:MET:O	2.46	0.42
3:E3:124:ARG:NH2	7:C7:81:ILE:HG23	2.35	0.42
3:F3:104:GLN:HE21	5:I5:182:PRO:HG3	1.85	0.42
4:A4:60:LEU:HA	4:A4:66:HIS:CE1	2.55	0.42
4:B4:60:LEU:HA	4:B4:66:HIS:CE1	2.55	0.42
5:A5:162:ILE:HD12	5:A5:162:ILE:N	2.29	0.42
5:C5:128:VAL:HG21	5:C5:137:VAL:HG21	2.02	0.42
5:C5:346:TYR:CB	5:C5:381:ARG:HE	2.31	0.42
5:D5:73:THR:HG22	5:D5:186:ARG:NH2	2.34	0.42
5:F5:321:LYS:HZ1	5:G5:381:ARG:NH2	2.17	0.42
5:H5:204:ILE:HD11	5:H5:271:HIS:O	2.20	0.42
5:H5:316:LEU:HB3	5:H5:399:ILE:HD13	2.02	0.42
5:I5:41:PRO:O	5:I5:45:ARG:HG3	2.19	0.42
5:I5:253:TRP:HD1	5:I5:277:LYS:O	2.02	0.42
5:J5:208:LEU:HD12	5:J5:267:VAL:HG11	2.02	0.42
5:J5:353:TYR:CZ	5:K5:353:TYR:HE2	2.37	0.42
5:K5:3:LEU:H	5:K5:13:ASN:HB2	1.85	0.42
5:K5:252:MET:HE3	5:K5:272:ARG:HD2	2.02	0.42
5:L5:110:ALA:HA	5:L5:124:LEU:O	2.20	0.42
5:L5:314:VAL:CG2	5:L5:397:VAL:HG23	2.50	0.42
5:L5:322:VAL:HB	5:L5:325:SER:HB2	2.01	0.42
6:A6:295:LEU:HB3	6:A6:304:PHE:CE2	2.54	0.42
6:B6:8:ILE:HD12	7:F7:53:TRP:CZ3	2.55	0.42
6:F6:39:THR:HG22	6:F6:42:ARG:NH1	2.35	0.42
1:F1:15:LEU:HD23	1:F1:89:GLY:HA3	2.02	0.41
2:B2:32:THR:CG2	5:D5:53:ARG:HD3	2.50	0.41
2:C2:39:PHE:HB2	5:F5:3:LEU:HD21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C3:75:GLU:O	6:C6:320:GLN:NE2	2.52	0.41
3:F3:114:GLN:HG2	5:G5:33:ASP:OD2	2.20	0.41
4:A4:31:GLU:OE2	4:A4:38:LYS:HE2	2.20	0.41
4:C4:30:TYR:HB2	4:C4:37:TRP:CH2	2.55	0.41
4:E4:42:VAL:HG23	4:E4:42:VAL:O	2.20	0.41
4:F4:60:LEU:HA	4:F4:66:HIS:CE1	2.55	0.41
5:B5:107:THR:HA	5:B5:127:ASP:HB2	2.01	0.41
5:B5:220:TYR:CD2	5:B5:230:ILE:HD13	2.55	0.41
5:D5:105:ALA:HA	5:D5:128:VAL:HG13	2.01	0.41
5:D5:230:ILE:HD11	5:D5:245:VAL:HG21	2.02	0.41
5:F5:131:LEU:HG	5:F5:132:ILE:HG23	2.02	0.41
5:G5:38:GLN:OE1	7:D7:49:ALA:HB1	2.20	0.41
5:G5:96:TRP:O	5:G5:138:THR:HA	2.20	0.41
5:H5:105:ALA:HA	5:H5:128:VAL:HG13	2.02	0.41
5:H5:110:ALA:HA	5:H5:124:LEU:O	2.20	0.41
5:J5:230:ILE:HD11	5:J5:245:VAL:HG21	2.02	0.41
5:K5:27:ARG:HG3	5:K5:27:ARG:NH1	2.32	0.41
5:K5:45:ARG:NH1	5:L5:45:ARG:NH2	2.68	0.41
5:L5:199:SER:N	5:L5:271:HIS:HD1	2.18	0.41
6:A6:28:GLY:HA2	6:A6:84:VAL:O	2.20	0.41
6:A6:39:THR:HG22	6:A6:42:ARG:NH1	2.35	0.41
6:B6:28:GLY:HA2	6:B6:84:VAL:O	2.20	0.41
6:B6:186:LEU:O	6:B6:196:SER:HB2	2.20	0.41
6:C6:267:VAL:HG21	6:C6:302:ARG:HA	2.01	0.41
6:D6:358:LYS:HB3	6:D6:358:LYS:HE3	1.78	0.41
6:E6:490:ASP:HB3	7:D7:97:SER:CB	2.50	0.41
6:F6:186:LEU:O	6:F6:196:SER:HB2	2.20	0.41
7:E7:51:ILE:HG23	7:E7:73:VAL:CG2	2.50	0.41
2:C2:30:ILE:CD1	5:E5:52:LEU:HD11	2.33	0.41
2:D2:117:THR:OG1	2:D2:120:GLN:OE1	2.37	0.41
2:D2:197:ARG:HG2	2:D2:198:TYR:N	2.32	0.41
3:A3:22:ILE:HG22	3:A3:22:ILE:O	2.19	0.41
3:A3:106:GLN:NE2	5:K5:143:LEU:HD13	2.35	0.41
3:E3:98:PRO:HD3	4:D4:34:VAL:CG2	2.45	0.41
4:C4:71:ASN:OD1	5:F5:90:PRO:HB3	2.20	0.41
4:D4:42:VAL:HG23	4:D4:42:VAL:O	2.20	0.41
4:E4:110:ILE:HD12	4:E4:116:ASP:OD1	2.20	0.41
5:A5:38:GLN:OE1	7:A7:49:ALA:HB1	2.20	0.41
5:A5:72:ASN:OD1	5:A5:72:ASN:N	2.52	0.41
5:D5:3:LEU:HD13	5:D5:12:THR:HG22	2.01	0.41
5:D5:110:ALA:HA	5:D5:124:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D5:204:ILE:HD11	5:D5:271:HIS:O	2.20	0.41
5:G5:128:VAL:HG21	5:G5:137:VAL:HG21	2.01	0.41
5:H5:80:ILE:HD12	5:H5:80:ILE:HA	1.94	0.41
5:H5:124:LEU:HB3	5:H5:139:PHE:HD1	1.85	0.41
5:I5:229:GLN:HG2	5:I5:230:ILE:N	2.35	0.41
5:I5:319:THR:HA	5:I5:402:VAL:HB	2.03	0.41
5:J5:110:ALA:HA	5:J5:124:LEU:O	2.20	0.41
5:J5:191:ARG:HG2	5:J5:191:ARG:HH11	1.85	0.41
5:J5:222:ASN:ND2	5:J5:249:ALA:HA	2.35	0.41
5:J5:358:ILE:O	5:J5:361:SER:OG	2.33	0.41
5:L5:78:GLN:HE21	5:L5:88:LEU:HD23	1.82	0.41
6:B6:39:THR:HG22	6:B6:42:ARG:NH1	2.35	0.41
6:C6:185:TYR:CZ	6:C6:209:LEU:HD13	2.55	0.41
6:E6:39:THR:HG22	6:E6:42:ARG:NH1	2.35	0.41
6:F6:7:VAL:HG12	7:D7:57:LEU:HD12	2.02	0.41
6:F6:28:GLY:HA2	6:F6:84:VAL:O	2.21	0.41
1:A1:22:HIS:HD1	1:F1:2:SER:N	2.18	0.41
1:D1:23:LEU:HD13	1:D1:28:ALA:HB1	2.02	0.41
2:A2:14:LYS:HG2	6:B6:358:LYS:CD	2.51	0.41
2:D2:21:LYS:HB2	7:D7:11:ASP:HB2	2.01	0.41
2:D2:32:THR:CG2	5:H5:53:ARG:HD3	2.50	0.41
2:D2:49:ILE:HD11	2:D2:125:LEU:HB2	2.03	0.41
3:A3:97:LEU:HA	4:F4:34:VAL:HG23	2.02	0.41
3:A3:106:GLN:O	3:A3:106:GLN:HG2	2.18	0.41
4:A4:42:VAL:HG23	4:A4:42:VAL:O	2.20	0.41
4:B4:34:VAL:HG21	5:C5:62:TRP:CD1	2.56	0.41
4:C4:60:LEU:HA	4:C4:66:HIS:CE1	2.55	0.41
4:D4:61:ALA:HB1	5:G5:186:ARG:NH2	2.35	0.41
4:D4:71:ASN:OD1	5:H5:90:PRO:HB3	2.20	0.41
5:A5:3:LEU:H	5:A5:13:ASN:HB2	1.85	0.41
5:A5:353:TYR:HD1	5:A5:368:LEU:HD13	1.85	0.41
5:B5:358:ILE:O	5:B5:361:SER:OG	2.31	0.41
5:E5:60:PHE:CZ	5:F5:59:ALA:HB1	2.55	0.41
5:F5:80:ILE:HD12	5:F5:80:ILE:HA	1.95	0.41
5:F5:110:ALA:HA	5:F5:124:LEU:O	2.19	0.41
5:F5:375:ILE:HG23	5:F5:376:ASP:CG	2.40	0.41
5:H5:387:ASP:OD1	5:H5:387:ASP:N	2.47	0.41
5:I5:42:ASP:OD1	7:E7:4:ARG:HD2	2.20	0.41
5:K5:22:LEU:HD12	5:K5:22:LEU:HA	1.80	0.41
5:K5:255:VAL:HG12	5:K5:305:ASP:HB2	2.03	0.41
6:A6:8:ILE:HD12	7:E7:53:TRP:CZ3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A6:36:VAL:HG12	6:A6:56:PHE:CE1	2.55	0.41
6:A6:240:MET:HE2	6:A6:240:MET:HB2	1.90	0.41
6:E6:36:VAL:HG12	6:E6:56:PHE:CE1	2.55	0.41
6:E6:37:LEU:HD12	6:E6:56:PHE:CZ	2.54	0.41
6:F6:144:VAL:HG11	6:F6:150:VAL:CG1	2.42	0.41
7:B7:90:LYS:O	7:B7:91:THR:OG1	2.24	0.41
7:E7:56:LEU:HB3	7:E7:66:ILE:CD1	2.45	0.41
7:F7:51:ILE:HG23	7:F7:73:VAL:CG2	2.50	0.41
1:F1:23:LEU:HD13	1:F1:28:ALA:HB1	2.02	0.41
2:D2:32:THR:HG21	5:H5:53:ARG:HD3	2.01	0.41
3:D3:22:ILE:HG22	3:D3:22:ILE:O	2.19	0.41
4:D4:30:TYR:HB2	4:D4:37:TRP:CH2	2.55	0.41
4:D4:110:ILE:HD12	4:D4:116:ASP:OD1	2.20	0.41
4:F4:42:VAL:HG23	4:F4:42:VAL:O	2.20	0.41
5:B5:66:ASN:CB	5:B5:76:MET:HG2	2.50	0.41
5:C5:23:GLU:HG3	5:C5:27:ARG:NH1	2.35	0.41
5:C5:180:GLU:CD	5:C5:180:GLU:H	2.24	0.41
5:C5:342:GLU:OE1	5:D5:292:ASN:ND2	2.54	0.41
5:D5:14:THR:HG23	5:D5:17:GLU:H	1.85	0.41
5:E5:290:LYS:CG	5:E5:291:PRO:HD2	2.50	0.41
5:E5:346:TYR:CD2	5:E5:381:ARG:NH2	2.88	0.41
5:F5:96:TRP:CZ3	5:F5:173:ALA:HB2	2.47	0.41
5:F5:105:ALA:HA	5:F5:128:VAL:HG13	2.02	0.41
5:G5:342:GLU:OE1	5:H5:292:ASN:ND2	2.53	0.41
5:H5:73:THR:HG22	5:H5:186:ARG:HH22	1.86	0.41
5:I5:39:GLU:OE2	7:E7:35:ARG:N	2.53	0.41
5:I5:52:LEU:HD23	5:I5:52:LEU:HA	1.87	0.41
5:I5:128:VAL:HG21	5:I5:137:VAL:HG21	2.01	0.41
5:I5:332:ILE:HB	5:I5:358:ILE:HD11	2.01	0.41
5:I5:346:TYR:HE1	5:I5:385:GLY:CA	2.34	0.41
5:K5:108:LEU:HD23	5:K5:112:TYR:CE1	2.55	0.41
5:L5:108:LEU:N	5:L5:127:ASP:HA	2.30	0.41
5:L5:191:ARG:HH22	5:L5:235:ASN:HD22	1.68	0.41
5:L5:353:TYR:CE1	5:L5:368:LEU:HB3	2.56	0.41
6:A6:438:PHE:CZ	6:A6:479:ALA:HB2	2.56	0.41
6:C6:36:VAL:HG12	6:C6:56:PHE:CE1	2.55	0.41
6:F6:34:GLN:H	6:F6:34:GLN:HG2	1.73	0.41
6:F6:267:VAL:HG21	6:F6:302:ARG:HA	2.01	0.41
6:F6:295:LEU:HB3	6:F6:304:PHE:CE2	2.54	0.41
1:A1:10:GLN:HB3	1:B1:123:ASN:OD1	2.19	0.41
1:D1:37:LYS:HG3	1:D1:38:THR:HG23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E1:37:LYS:HB3	1:F1:113:ILE:O	2.20	0.41
2:B2:15:GLN:HE22	7:B7:38:SER:CA	2.32	0.41
2:C2:146:LEU:O	2:C2:150:VAL:HG12	2.20	0.41
2:E2:9:LEU:HA	2:E2:9:LEU:HD23	1.69	0.41
3:A3:170:PHE:CD2	3:B3:148:GLU:OE1	2.73	0.41
3:A3:203:TYR:HB3	3:F3:46:LEU:HB2	2.03	0.41
3:B3:22:ILE:O	3:B3:22:ILE:HG22	2.19	0.41
3:B3:46:LEU:HD21	3:B3:55:ASP:OD2	2.21	0.41
3:F3:98:PRO:HB3	5:I5:62:TRP:NE1	2.36	0.41
4:C4:1:MET:HG3	4:C4:108:GLU:OE2	2.21	0.41
4:F4:61:ALA:HB1	5:K5:186:ARG:CZ	2.50	0.41
5:A5:60:PHE:CZ	5:B5:59:ALA:HB1	2.54	0.41
5:A5:96:TRP:O	5:A5:138:THR:HA	2.20	0.41
5:A5:264:ILE:HG21	5:A5:304:ILE:HD13	2.03	0.41
5:B5:290:LYS:HB2	5:B5:292:ASN:OD1	2.21	0.41
5:B5:375:ILE:HG23	5:B5:376:ASP:CG	2.40	0.41
5:D5:6:ASN:OD1	5:D5:7:GLU:N	2.51	0.41
5:D5:124:LEU:HB3	5:D5:139:PHE:HD1	1.85	0.41
5:D5:130:VAL:HG12	5:D5:131:LEU:N	2.35	0.41
5:F5:56:ILE:HD13	5:F5:56:ILE:HA	1.92	0.41
5:F5:73:THR:HG22	5:F5:186:ARG:NH2	2.35	0.41
5:F5:321:LYS:HE3	5:G5:381:ARG:CZ	2.51	0.41
5:I5:23:GLU:HG3	5:I5:27:ARG:NH1	2.34	0.41
5:I5:141:SER:OG	5:I5:142:SER:N	2.54	0.41
5:I5:342:GLU:OE1	5:J5:292:ASN:ND2	2.54	0.41
5:J5:204:ILE:HD11	5:J5:271:HIS:O	2.20	0.41
5:K5:38:GLN:CG	7:F7:43:ASN:HD22	2.34	0.41
5:L5:251:THR:HG22	5:L5:252:MET:O	2.19	0.41
6:F6:147:LEU:HA	6:F6:150:VAL:HG22	2.01	0.41
1:A1:4:ILE:HG23	1:A1:95:TYR:CD2	2.56	0.41
1:C1:37:LYS:HG3	1:C1:38:THR:HG23	2.02	0.41
1:E1:4:ILE:HG23	1:E1:95:TYR:CD2	2.56	0.41
2:A2:32:THR:HG21	5:B5:53:ARG:HD3	2.02	0.41
2:A2:46:ASN:HB3	5:B5:5:PHE:CE2	2.55	0.41
2:B2:123:LYS:HE2	2:B2:123:LYS:HB2	1.85	0.41
2:C2:62:ARG:O	5:F5:69:PRO:HG2	2.20	0.41
2:E2:69:GLN:OE1	2:E2:69:GLN:HA	2.21	0.41
2:F2:133:ILE:HG12	2:F2:144:ILE:HG21	2.03	0.41
2:F2:146:LEU:O	2:F2:150:VAL:HG12	2.20	0.41
3:A3:164:THR:N	3:A3:176:MET:O	2.47	0.41
3:A3:239:GLY:O	3:A3:241:ARG:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B3:26:ARG:H	3:B3:26:ARG:HG2	1.66	0.41
3:B3:201:ILE:HG22	3:B3:203:TYR:HD1	1.86	0.41
3:C3:37:TYR:OH	3:D3:155:GLU:OE1	2.39	0.41
3:C3:46:LEU:HD21	3:C3:55:ASP:OD2	2.21	0.41
3:C3:201:ILE:HG22	3:C3:203:TYR:HD1	1.86	0.41
3:D3:26:ARG:H	3:D3:26:ARG:HG2	1.66	0.41
3:D3:171:ARG:NH2	3:E3:152:ASP:HA	2.35	0.41
3:F3:121:ALA:HA	7:D7:105:ILE:HD11	2.02	0.41
3:F3:141:ASN:ND2	7:D7:71:GLU:OE1	2.53	0.41
4:D4:31:GLU:OE2	4:D4:38:LYS:HE2	2.20	0.41
4:F4:1:MET:HG3	4:F4:108:GLU:OE2	2.21	0.41
5:A5:89:LEU:HB3	5:A5:177:ARG:NH1	2.35	0.41
5:A5:108:LEU:HA	5:A5:109:PRO:HD3	1.88	0.41
5:B5:110:ALA:HA	5:B5:124:LEU:O	2.20	0.41
5:B5:204:ILE:HD11	5:B5:271:HIS:O	2.20	0.41
5:C5:3:LEU:H	5:C5:13:ASN:HB2	1.85	0.41
5:C5:253:TRP:HD1	5:C5:277:LYS:O	2.03	0.41
5:G5:345:GLN:HE21	5:G5:347:VAL:HA	1.85	0.41
5:H5:220:TYR:CD2	5:H5:230:ILE:HD13	2.55	0.41
5:I5:162:ILE:HD12	5:I5:162:ILE:N	2.34	0.41
5:J5:321:LYS:HA	5:J5:404:VAL:HG11	2.03	0.41
5:K5:96:TRP:O	5:K5:138:THR:HA	2.21	0.41
5:K5:98:VAL:HG22	5:K5:169:ALA:HB2	2.03	0.41
6:A6:354:LEU:HD12	6:A6:354:LEU:HA	1.87	0.41
6:A6:358:LYS:HE3	6:A6:358:LYS:HB3	1.78	0.41
6:B6:438:PHE:CZ	6:B6:479:ALA:HB2	2.56	0.41
6:C6:438:PHE:CZ	6:C6:479:ALA:HB2	2.56	0.41
6:D6:36:VAL:HG12	6:D6:56:PHE:CE1	2.55	0.41
6:D6:185:TYR:CZ	6:D6:209:LEU:HD13	2.55	0.41
6:D6:186:LEU:O	6:D6:196:SER:HB2	2.20	0.41
6:D6:290:SER:HA	6:D6:369:ASN:ND2	2.34	0.41
6:D6:438:PHE:CZ	6:D6:479:ALA:HB2	2.56	0.41
6:D6:454:TYR:O	6:D6:478:ILE:HA	2.21	0.41
6:E6:438:PHE:CZ	6:E6:479:ALA:HB2	2.56	0.41
6:F6:68:THR:O	6:F6:332:SER:OG	2.24	0.41
6:F6:438:PHE:CZ	6:F6:479:ALA:HB2	2.56	0.41
1:A1:103:LYS:HB2	1:A1:103:LYS:HE3	1.91	0.41
2:A2:192:ARG:O	5:B5:200:THR:OG1	2.37	0.41
3:E3:38:ARG:HE	3:E3:38:ARG:HB3	1.65	0.41
3:E3:106:GLN:O	3:E3:106:GLN:HG2	2.18	0.41
3:E3:201:ILE:HG22	3:E3:203:TYR:HD1	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:1:MET:HG3	4:A4:108:GLU:OE2	2.21	0.41
4:A4:66:HIS:CD2	5:A5:71:LEU:HD21	2.56	0.41
4:C4:85:GLY:H	5:E5:181:THR:HG21	1.85	0.41
5:A5:91:ALA:HB2	5:A5:179:GLU:OE1	2.21	0.41
5:B5:124:LEU:HB3	5:B5:139:PHE:HD1	1.85	0.41
5:B5:230:ILE:HD11	5:B5:245:VAL:HG21	2.03	0.41
5:C5:41:PRO:HB3	7:B7:12:TRP:CD1	2.56	0.41
5:C5:98:VAL:HG22	5:C5:169:ALA:HB2	2.02	0.41
5:D5:264:ILE:O	5:D5:268:VAL:HG13	2.19	0.41
5:D5:352:LEU:HD23	5:D5:352:LEU:HA	1.91	0.41
5:D5:387:ASP:OD1	5:D5:387:ASP:N	2.46	0.41
5:E5:3:LEU:H	5:E5:13:ASN:HB2	1.84	0.41
5:E5:255:VAL:HG12	5:E5:305:ASP:HB2	2.03	0.41
5:E5:264:ILE:HG21	5:E5:304:ILE:HD13	2.03	0.41
5:F5:261:LEU:HD22	5:F5:282:VAL:HG12	2.02	0.41
5:H5:230:ILE:HD11	5:H5:245:VAL:HG21	2.03	0.41
5:I5:313:TYR:CD2	5:I5:373:ASN:HA	2.56	0.41
5:K5:290:LYS:CG	5:K5:291:PRO:HD2	2.51	0.41
5:L5:389:LYS:O	5:L5:390:LEU:HD23	2.21	0.41
6:C6:48:THR:HG23	6:C6:51:ALA:H	1.85	0.41
6:C6:358:LYS:HB3	6:C6:358:LYS:HE3	1.78	0.41
6:F6:185:TYR:CZ	6:F6:209:LEU:HD13	2.55	0.41
6:F6:363:LEU:HD12	6:F6:363:LEU:HA	1.92	0.41
7:C7:51:ILE:HG23	7:C7:73:VAL:CG2	2.50	0.41
2:A2:133:ILE:HG12	2:A2:144:ILE:HG21	2.03	0.41
2:D2:12:LEU:HA	5:G5:44:GLN:HE21	1.84	0.41
2:D2:69:GLN:OE1	2:D2:69:GLN:HA	2.21	0.41
2:E2:49:ILE:HD11	2:E2:125:LEU:HB2	2.03	0.41
3:A3:25:TYR:CE2	3:A3:150:PHE:HD1	2.39	0.41
3:A3:201:ILE:HG22	3:A3:203:TYR:HD1	1.86	0.41
4:A4:110:ILE:HD12	4:A4:116:ASP:OD1	2.20	0.41
4:B4:1:MET:HG3	4:B4:108:GLU:OE2	2.21	0.41
4:C4:21:ARG:O	4:C4:43:TYR:HE1	2.04	0.41
4:C4:42:VAL:HG23	4:C4:42:VAL:O	2.20	0.41
4:D4:21:ARG:O	4:D4:43:TYR:HE1	2.04	0.41
4:F4:110:ILE:HD12	4:F4:116:ASP:OD1	2.20	0.41
5:A5:18:LEU:HD11	5:A5:53:ARG:HD3	2.03	0.41
5:A5:313:TYR:CD2	5:A5:373:ASN:HA	2.56	0.41
5:B5:78:GLN:HE21	5:B5:88:LEU:HD23	1.86	0.41
5:C5:211:ILE:HD11	5:C5:267:VAL:CG2	2.48	0.41
5:D5:42:ASP:HB2	7:B7:14:PHE:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:D5:80:ILE:HD12	5:D5:80:ILE:HA	1.83	0.41
5:D5:321:LYS:HA	5:D5:404:VAL:HG11	2.02	0.41
5:F5:155:PHE:CE1	5:F5:166:SER:HA	2.56	0.41
5:I5:89:LEU:HB3	5:I5:177:ARG:NH1	2.35	0.41
5:I5:352:LEU:HD12	5:I5:352:LEU:HA	1.86	0.41
5:K5:363:TYR:OH	5:K5:365:VAL:HG12	2.21	0.41
5:L5:73:THR:HG22	5:L5:186:ARG:NH2	2.35	0.41
5:L5:272:ARG:HD3	5:L5:302:HIS:NE2	2.35	0.41
6:A6:290:SER:HA	6:A6:369:ASN:ND2	2.34	0.41
6:A6:454:TYR:O	6:A6:478:ILE:HA	2.21	0.41
6:C6:454:TYR:O	6:C6:478:ILE:HA	2.21	0.41
6:C6:494:SER:HB3	7:B7:101:SER:HB3	2.03	0.41
6:D6:28:GLY:HA2	6:D6:84:VAL:O	2.20	0.41
6:E6:48:THR:HG23	6:E6:51:ALA:H	1.85	0.41
6:E6:185:TYR:CZ	6:E6:209:LEU:HD13	2.55	0.41
1:A1:15:LEU:HD23	1:A1:89:GLY:HA3	2.02	0.41
1:A1:23:LEU:HD13	1:A1:28:ALA:HB1	2.02	0.41
1:B1:15:LEU:HD23	1:B1:89:GLY:HA3	2.02	0.41
1:B1:49:SER:O	1:B1:49:SER:OG	2.37	0.41
2:A2:111:TYR:HB3	2:A2:115:GLN:OE1	2.21	0.41
2:A2:146:LEU:O	2:A2:150:VAL:HG12	2.20	0.41
2:C2:32:THR:HG21	5:F5:53:ARG:HD3	2.02	0.41
2:C2:49:ILE:HD11	2:C2:125:LEU:HB2	2.03	0.41
2:C2:111:TYR:HB3	2:C2:115:GLN:OE1	2.21	0.41
2:D2:111:TYR:HB3	2:D2:115:GLN:OE1	2.21	0.41
2:E2:133:ILE:HG12	2:E2:144:ILE:HG21	2.03	0.41
2:E2:197:ARG:HG2	2:E2:198:TYR:N	2.32	0.41
2:F2:197:ARG:HG2	2:F2:198:TYR:N	2.32	0.41
3:A3:114:GLN:HG2	5:I5:33:ASP:OD2	2.20	0.41
3:A3:230:GLY:HA2	4:F4:16:ALA:O	2.21	0.41
3:B3:25:TYR:CE2	3:B3:150:PHE:HD1	2.39	0.41
3:B3:38:ARG:O	3:C3:158:TYR:HE1	2.04	0.41
3:B3:232:ASN:ND2	4:A4:18:GLU:HB2	2.36	0.41
3:C3:25:TYR:CE2	3:C3:150:PHE:HD1	2.39	0.41
3:C3:111:ILE:HD11	4:B4:84:ASN:HB2	2.03	0.41
3:C3:234:GLU:HA	4:B4:2:ASN:HD22	1.86	0.41
3:C3:239:GLY:O	3:C3:241:ARG:N	2.48	0.41
3:D3:25:TYR:CE2	3:D3:150:PHE:HD1	2.39	0.41
3:E3:144:LYS:HG2	3:E3:148:GLU:HG3	2.03	0.41
3:F3:221:LYS:HG3	5:I5:54:PHE:CE2	2.56	0.41
4:A4:61:ALA:HB1	5:A5:186:ARG:NH2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A4:71:ASN:ND2	5:B5:90:PRO:HA	2.13	0.41
4:E4:31:GLU:OE2	4:E4:38:LYS:HE2	2.20	0.41
5:A5:41:PRO:HB3	7:A7:12:TRP:CD1	2.56	0.41
5:A5:346:TYR:HE1	5:A5:385:GLY:HA3	1.85	0.41
5:B5:261:LEU:HD22	5:B5:282:VAL:HG12	2.03	0.41
5:B5:353:TYR:HA	5:B5:356:SER:OG	2.20	0.41
5:B5:375:ILE:HD12	5:B5:377:TRP:CH2	2.56	0.41
5:C5:42:ASP:OD1	7:B7:4:ARG:HD2	2.20	0.41
5:C5:319:THR:HA	5:C5:402:VAL:HB	2.02	0.41
5:D5:3:LEU:HA	5:D5:11:GLN:O	2.20	0.41
5:D5:131:LEU:HG	5:D5:132:ILE:HG23	2.03	0.41
5:D5:314:VAL:CG2	5:D5:397:VAL:HG23	2.50	0.41
5:D5:315:ARG:HD2	5:D5:377:TRP:CE2	2.56	0.41
5:D5:389:LYS:O	5:D5:390:LEU:HD23	2.21	0.41
5:E5:148:SER:OG	7:B7:16:ARG:NE	2.45	0.41
5:E5:180:GLU:CD	5:E5:180:GLU:H	2.23	0.41
5:E5:195:ASN:HA	5:F5:207:LYS:HZ1	1.86	0.41
5:E5:345:GLN:NE2	5:E5:347:VAL:HA	2.34	0.41
5:F5:51:LEU:HD12	5:F5:51:LEU:HA	1.88	0.41
5:F5:353:TYR:CE1	5:F5:368:LEU:HB3	2.56	0.41
5:F5:389:LYS:O	5:F5:390:LEU:HD23	2.21	0.41
5:G5:264:ILE:HG21	5:G5:304:ILE:HD13	2.02	0.41
5:G5:290:LYS:CG	5:G5:291:PRO:HD2	2.51	0.41
5:G5:353:TYR:HD1	5:G5:368:LEU:HD13	1.85	0.41
5:H5:34:ILE:HG21	5:I5:150:ILE:HD13	2.03	0.41
5:H5:78:GLN:HE21	5:H5:88:LEU:HD23	1.84	0.41
5:H5:93:ARG:NH2	5:H5:142:SER:HA	2.33	0.41
5:H5:130:VAL:HG12	5:H5:131:LEU:H	1.86	0.41
5:H5:328:ASP:OD1	5:H5:328:ASP:N	2.44	0.41
5:I5:60:PHE:HD1	5:J5:60:PHE:HE1	1.69	0.41
5:I5:112:TYR:CE1	5:I5:124:LEU:HD23	2.56	0.41
5:I5:187:LEU:HD23	5:I5:187:LEU:HA	1.86	0.41
5:I5:290:LYS:CG	5:I5:291:PRO:HD2	2.51	0.41
5:J5:191:ARG:NH1	5:J5:191:ARG:HG2	2.36	0.41
5:J5:261:LEU:HD22	5:J5:282:VAL:HG12	2.03	0.41
5:K5:187:LEU:HD23	5:K5:187:LEU:HA	1.87	0.41
5:L5:99:THR:HG22	5:L5:136:GLU:HG2	2.02	0.41
5:L5:105:ALA:HA	5:L5:128:VAL:HG13	2.02	0.41
5:L5:200:THR:H	5:L5:203:SER:HB2	1.86	0.41
5:L5:230:ILE:HD11	5:L5:245:VAL:HG21	2.03	0.41
6:A6:21:PRO:HD3	6:A6:45:ILE:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:A6:185:TYR:CZ	6:A6:209:LEU:HD13	2.55	0.41
6:A6:288:GLY:O	6:A6:290:SER:N	2.54	0.41
6:B6:37:LEU:HD12	6:B6:56:PHE:CZ	2.54	0.41
6:B6:48:THR:HG23	6:B6:51:ALA:H	1.85	0.41
6:B6:288:GLY:O	6:B6:290:SER:N	2.54	0.41
6:B6:363:LEU:HD12	6:B6:363:LEU:HA	1.92	0.41
6:D6:39:THR:HG22	6:D6:42:ARG:NH1	2.35	0.41
6:F6:125:THR:HA	6:F6:134:GLN:O	2.21	0.41
6:F6:454:TYR:O	6:F6:478:ILE:HA	2.21	0.41
7:B7:32:VAL:O	7:B7:36:ILE:HG12	2.21	0.41
7:F7:14:PHE:CG	7:F7:15:GLY:N	2.89	0.41
1:A1:37:LYS:HG3	1:A1:38:THR:HG23	2.02	0.41
1:D1:4:ILE:HG23	1:D1:95:TYR:CD2	2.56	0.41
1:E1:49:SER:O	1:E1:49:SER:OG	2.37	0.41
1:F1:4:ILE:HG23	1:F1:95:TYR:CD2	2.56	0.41
1:F1:37:LYS:HG3	1:F1:38:THR:HG23	2.02	0.41
3:A3:144:LYS:HG2	3:A3:148:GLU:HG3	2.03	0.41
3:B3:215:SER:HB3	7:A7:47:MET:HE1	2.03	0.41
3:D3:34:THR:HG22	3:E3:184:VAL:HG22	2.03	0.41
3:E3:25:TYR:CE2	3:E3:150:PHE:HD1	2.39	0.41
3:F3:233:PRO:HB2	4:E4:103:PHE:HD2	1.82	0.41
4:B4:110:ILE:HD12	4:B4:116:ASP:OD1	2.20	0.41
4:C4:110:ILE:HD12	4:C4:116:ASP:OD1	2.20	0.41
4:F4:31:GLU:OE2	4:F4:38:LYS:HE2	2.20	0.41
4:F4:39:MET:HB2	4:F4:60:LEU:HD11	2.03	0.41
5:A5:211:ILE:HD11	5:A5:267:VAL:CG2	2.48	0.41
5:A5:290:LYS:CG	5:A5:291:PRO:HD2	2.50	0.41
5:A5:342:GLU:OE1	5:B5:292:ASN:ND2	2.53	0.41
5:B5:42:ASP:HB2	7:A7:14:PHE:CE1	2.56	0.41
5:B5:218:GLN:HE22	5:B5:238:ILE:HD12	1.84	0.41
5:C5:89:LEU:HD22	5:C5:289:THR:HG21	2.01	0.41
5:D5:353:TYR:CE2	5:D5:365:VAL:HG23	2.56	0.41
5:E5:96:TRP:O	5:E5:138:THR:HA	2.21	0.41
5:E5:200:THR:HG21	5:F5:272:ARG:O	2.20	0.41
5:E5:312:LEU:HD12	5:E5:347:VAL:HG11	2.03	0.41
5:F5:322:VAL:HB	5:F5:325:SER:HB2	2.01	0.41
5:H5:108:LEU:HD12	5:H5:112:TYR:HE2	1.86	0.41
5:H5:284:TYR:HB3	5:H5:300:ASN:HB2	2.02	0.41
5:J5:124:LEU:HB3	5:J5:139:PHE:HD1	1.85	0.41
5:J5:131:LEU:HG	5:J5:132:ILE:HG23	2.03	0.41
5:K5:128:VAL:HG21	5:K5:137:VAL:HG21	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:K5:157:GLN:HE22	5:K5:164:VAL:HG11	1.86	0.41
5:K5:312:LEU:HD22	5:K5:392:ILE:HD11	2.03	0.41
5:L5:131:LEU:HG	5:L5:132:ILE:HG23	2.03	0.41
6:A6:48:THR:HG23	6:A6:51:ALA:H	1.85	0.41
6:A6:123:SER:H	6:A6:195:ILE:HD13	1.86	0.41
6:C6:354:LEU:HD12	6:C6:354:LEU:HA	1.87	0.41
6:E6:122:GLY:N	6:E6:139:LEU:H	2.19	0.41
6:E6:490:ASP:HB3	7:D7:97:SER:HB3	2.03	0.41
6:F6:21:PRO:HD3	6:F6:45:ILE:CD1	2.51	0.41
6:F6:122:GLY:N	6:F6:139:LEU:H	2.19	0.41
7:A7:14:PHE:CG	7:A7:15:GLY:N	2.89	0.41
7:E7:32:VAL:O	7:E7:36:ILE:HG12	2.21	0.41
1:C1:40:ARG:HD2	1:D1:135:GLU:OE1	2.21	0.40
1:F1:122:ASN:HB3	1:F1:126:PRO:HA	2.03	0.40
2:E2:15:GLN:HE22	7:E7:38:SER:CA	2.34	0.40
2:E2:160:VAL:HG22	2:E2:170:LEU:HD13	2.03	0.40
2:F2:111:TYR:HB3	2:F2:115:GLN:OE1	2.21	0.40
3:A3:46:LEU:HD21	3:A3:55:ASP:OD2	2.21	0.40
3:B3:144:LYS:HG2	3:B3:148:GLU:HG3	2.03	0.40
3:C3:37:TYR:CE2	3:D3:155:GLU:HG2	2.56	0.40
3:C3:152:ASP:OD1	3:C3:153:PHE:N	2.55	0.40
3:D3:46:LEU:HB2	3:E3:203:TYR:HB3	2.02	0.40
3:D3:201:ILE:HG22	3:D3:203:TYR:HD1	1.86	0.40
3:E3:46:LEU:HD21	3:E3:55:ASP:OD2	2.21	0.40
3:E3:111:ILE:HD11	4:D4:84:ASN:HB2	2.04	0.40
3:F3:100:LYS:HG3	3:F3:105:ILE:HG12	2.03	0.40
5:B5:119:ASN:N	5:D5:104:ARG:NH1	2.58	0.40
5:D5:375:ILE:HG23	5:D5:376:ASP:CG	2.40	0.40
5:D5:383:PHE:CD2	5:D5:384:SER:N	2.89	0.40
5:F5:78:GLN:HE21	5:F5:88:LEU:HD23	1.84	0.40
5:F5:98:VAL:O	5:F5:136:GLU:HA	2.21	0.40
5:F5:119:ASN:H	5:H5:104:ARG:HH12	1.65	0.40
5:F5:230:ILE:HD11	5:F5:245:VAL:HG21	2.03	0.40
5:F5:314:VAL:HG12	5:F5:370:VAL:HG12	2.03	0.40
5:F5:387:ASP:OD1	5:F5:387:ASP:N	2.46	0.40
5:J5:220:TYR:CD2	5:J5:230:ILE:HD13	2.55	0.40
5:J5:389:LYS:O	5:J5:390:LEU:HD23	2.21	0.40
5:L5:131:LEU:CG	5:L5:132:ILE:H	2.34	0.40
6:B6:122:GLY:N	6:B6:139:LEU:H	2.19	0.40
6:B6:185:TYR:CZ	6:B6:209:LEU:HD13	2.55	0.40
6:B6:221:GLU:OE1	6:B6:221:GLU:N	2.44	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:B6:240:MET:HE2	6:B6:240:MET:HB2	1.92	0.40
6:C6:39:THR:HG22	6:C6:42:ARG:NH1	2.35	0.40
6:D6:4:ILE:HD13	6:D6:4:ILE:HG21	1.87	0.40
1:A1:116:GLN:HB2	1:F1:33:PRO:HG3	2.03	0.40
1:D1:43:SER:HB3	3:E3:29:ALA:HA	2.02	0.40
2:A2:71:ASN:ND2	5:C5:362:ASN:H	2.19	0.40
2:B2:14:LYS:HG2	6:C6:358:LYS:CD	2.50	0.40
2:B2:116:LEU:HD22	2:B2:121:TYR:HD1	1.87	0.40
3:A3:152:ASP:OD1	3:A3:153:PHE:N	2.55	0.40
3:B3:108:ILE:HG23	4:A4:89:TYR:CE2	2.56	0.40
3:D3:201:ILE:HG22	3:D3:203:TYR:CD1	2.57	0.40
3:F3:98:PRO:HB3	5:I5:62:TRP:CE2	2.55	0.40
3:F3:152:ASP:OD1	3:F3:153:PHE:N	2.55	0.40
4:D4:1:MET:HG3	4:D4:108:GLU:OE2	2.21	0.40
4:E4:21:ARG:O	4:E4:43:TYR:HE1	2.04	0.40
5:A5:237:ASP:HB2	5:A5:346:TYR:CE2	2.57	0.40
5:A5:381:ARG:NH2	5:L5:321:LYS:CE	2.85	0.40
5:B5:264:ILE:O	5:B5:268:VAL:HG13	2.20	0.40
5:B5:343:ILE:HD13	5:B5:343:ILE:HA	1.88	0.40
5:C5:290:LYS:CG	5:C5:291:PRO:HD2	2.51	0.40
5:D5:93:ARG:NH2	5:D5:142:SER:HA	2.34	0.40
5:D5:353:TYR:CE1	5:D5:368:LEU:HB3	2.56	0.40
5:G5:199:SER:HA	5:H5:270:LYS:HA	2.04	0.40
5:G5:313:TYR:CD2	5:G5:373:ASN:HA	2.56	0.40
5:H5:389:LYS:O	5:H5:390:LEU:HD23	2.21	0.40
5:J5:316:LEU:HB3	5:J5:399:ILE:HD13	2.02	0.40
6:A6:16:GLY:C	6:A6:18:ALA:H	2.25	0.40
6:B6:454:TYR:O	6:B6:478:ILE:HA	2.21	0.40
6:D6:123:SER:H	6:D6:195:ILE:HD13	1.86	0.40
6:E6:21:PRO:HD3	6:E6:45:ILE:CD1	2.51	0.40
6:E6:123:SER:H	6:E6:195:ILE:HD13	1.86	0.40
6:E6:125:THR:HA	6:E6:134:GLN:O	2.21	0.40
6:E6:454:TYR:O	6:E6:478:ILE:HA	2.21	0.40
6:F6:87:TYR:OH	6:F6:89:ARG:HG2	2.19	0.40
7:D7:32:VAL:O	7:D7:36:ILE:HG12	2.21	0.40
7:E7:14:PHE:CG	7:E7:15:GLY:N	2.89	0.40
1:B1:4:ILE:HG23	1:B1:95:TYR:CD2	2.56	0.40
1:C1:15:LEU:HD23	1:C1:89:GLY:HA3	2.02	0.40
1:F1:11:SER:OG	1:F1:91:MET:HE3	2.22	0.40
2:B2:49:ILE:HD11	2:B2:125:LEU:HB2	2.03	0.40
2:E2:135:SER:OG	2:E2:144:ILE:O	2.33	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A3:100:LYS:HG3	3:A3:105:ILE:HG12	2.03	0.40
3:C3:26:ARG:H	3:C3:26:ARG:HG2	1.66	0.40
3:C3:100:LYS:HG3	3:C3:105:ILE:HG12	2.03	0.40
3:C3:141:ASN:HA	7:A7:85:GLU:O	2.21	0.40
3:D3:144:LYS:HG2	3:D3:148:GLU:HG3	2.03	0.40
3:E3:201:ILE:HG22	3:E3:203:TYR:CD1	2.56	0.40
3:F3:137:GLY:HA3	7:D7:82:ARG:CD	2.51	0.40
4:D4:34:VAL:O	4:D4:34:VAL:HG13	2.22	0.40
4:E4:1:MET:HG3	4:E4:108:GLU:OE2	2.21	0.40
5:B5:284:TYR:HB3	5:B5:300:ASN:HB2	2.02	0.40
5:C5:38:GLN:OE1	7:B7:49:ALA:HB1	2.22	0.40
5:D5:56:ILE:HD13	5:D5:56:ILE:HA	1.92	0.40
5:D5:119:ASN:N	5:F5:104:ARG:NH1	2.58	0.40
5:E5:128:VAL:HG21	5:E5:137:VAL:HG21	2.02	0.40
5:F5:314:VAL:CG2	5:F5:397:VAL:HG23	2.50	0.40
5:F5:315:ARG:HD2	5:F5:377:TRP:CE2	2.57	0.40
5:G5:89:LEU:HB3	5:G5:177:ARG:NH1	2.35	0.40
5:G5:157:GLN:HE22	5:G5:164:VAL:HG11	1.87	0.40
5:G5:312:LEU:HD12	5:G5:390:LEU:HD21	2.04	0.40
5:I5:218:GLN:CD	5:I5:235:ASN:HD21	2.25	0.40
5:I5:368:LEU:HD23	5:I5:369:GLU:N	2.37	0.40
5:I5:383:PHE:CZ	5:I5:388:GLY:HA3	2.56	0.40
5:K5:60:PHE:CZ	5:L5:59:ALA:HB1	2.56	0.40
5:K5:264:ILE:HG21	5:K5:304:ILE:HD13	2.03	0.40
5:L5:97:ASP:OD1	5:L5:138:THR:OG1	2.34	0.40
6:B6:16:GLY:C	6:B6:18:ALA:H	2.25	0.40
6:F6:123:SER:H	6:F6:195:ILE:HD13	1.86	0.40
6:F6:288:GLY:O	6:F6:290:SER:N	2.54	0.40
6:F6:487:HIS:ND1	7:E7:94:ARG:HD2	2.36	0.40
7:C7:32:VAL:O	7:C7:36:ILE:HG12	2.22	0.40
1:C1:4:ILE:HG23	1:C1:95:TYR:CD2	2.56	0.40
1:E1:10:GLN:HB3	1:F1:123:ASN:OD1	2.22	0.40
2:A2:14:LYS:HE3	6:B6:357:ILE:CG2	2.50	0.40
2:B2:69:GLN:OE1	2:B2:69:GLN:HA	2.21	0.40
2:B2:133:ILE:HG12	2:B2:144:ILE:HG21	2.03	0.40
2:C2:69:GLN:OE1	2:C2:69:GLN:HA	2.21	0.40
2:C2:134:CYS:SG	2:C2:191:PRO:HB3	2.62	0.40
2:D2:133:ILE:HG12	2:D2:144:ILE:HG21	2.03	0.40
2:F2:69:GLN:OE1	2:F2:69:GLN:HA	2.21	0.40
3:A3:201:ILE:HG22	3:A3:203:TYR:CD1	2.57	0.40
3:C3:201:ILE:HG22	3:C3:203:TYR:CD1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D3:38:ARG:HE	3:D3:38:ARG:HB3	1.65	0.40
3:D3:152:ASP:OD1	3:D3:153:PHE:N	2.54	0.40
3:E3:137:GLY:HA3	7:C7:82:ARG:HD3	2.03	0.40
3:E3:224:ASP:OD1	3:E3:225:ALA:N	2.46	0.40
3:F3:25:TYR:CE2	3:F3:150:PHE:HD1	2.39	0.40
3:F3:144:LYS:HG2	3:F3:148:GLU:HG3	2.03	0.40
4:B4:34:VAL:O	4:B4:34:VAL:HG13	2.22	0.40
5:A5:372:LEU:HD11	5:A5:390:LEU:HD11	2.04	0.40
5:B5:96:TRP:HB2	5:B5:122:TRP:CZ3	2.56	0.40
5:B5:105:ALA:HA	5:B5:128:VAL:HG13	2.02	0.40
5:C5:150:ILE:HD13	5:C5:150:ILE:HG21	1.93	0.40
5:C5:315:ARG:HA	5:C5:398:THR:O	2.22	0.40
5:C5:320:GLN:CD	5:C5:403:PRO:HA	2.42	0.40
5:D5:51:LEU:HD12	5:D5:51:LEU:HA	1.88	0.40
5:D5:316:LEU:HB3	5:D5:399:ILE:HD13	2.03	0.40
5:F5:34:ILE:HG21	5:G5:150:ILE:HD13	2.03	0.40
5:G5:167:ILE:HD12	5:G5:167:ILE:HG23	1.89	0.40
5:H5:56:ILE:HD13	5:H5:56:ILE:HA	1.92	0.40
5:H5:131:LEU:CG	5:H5:132:ILE:H	2.33	0.40
5:J5:73:THR:HG22	5:J5:186:ARG:HH22	1.86	0.40
5:K5:312:LEU:HD12	5:K5:347:VAL:HG11	2.03	0.40
6:A6:125:THR:HA	6:A6:134:GLN:O	2.21	0.40
6:C6:16:GLY:C	6:C6:18:ALA:H	2.25	0.40
6:C6:21:PRO:HD3	6:C6:45:ILE:HD13	2.04	0.40
6:E6:28:GLY:HA2	6:E6:84:VAL:O	2.21	0.40
6:F6:4:ILE:HD11	7:D7:39:TRP:HE1	1.85	0.40
7:E7:2:ARG:HB3	7:E7:21:TYR:CD2	2.50	0.40
7:F7:91:THR:HA	7:F7:95:VAL:C	2.42	0.40
1:B1:122:ASN:HB3	1:B1:126:PRO:HA	2.03	0.40
1:C1:75:LEU:HD13	1:C1:132:TYR:HB2	2.04	0.40
1:C1:91:MET:HE3	1:C1:91:MET:HB3	1.93	0.40
1:C1:108:LEU:HB3	1:C1:136:PHE:CG	2.57	0.40
1:D1:75:LEU:HD13	1:D1:132:TYR:HB2	2.04	0.40
1:E1:122:ASN:HB3	1:E1:126:PRO:HA	2.03	0.40
2:D2:116:LEU:HD22	2:D2:121:TYR:HD1	1.87	0.40
2:D2:134:CYS:SG	2:D2:191:PRO:HB3	2.62	0.40
2:D2:160:VAL:HG22	2:D2:170:LEU:HD13	2.03	0.40
3:B3:152:ASP:OD1	3:B3:153:PHE:N	2.55	0.40
3:B3:185:ARG:HE	3:B3:192:THR:CG2	2.34	0.40
3:D3:108:ILE:HG23	4:C4:89:TYR:CZ	2.56	0.40
4:B4:21:ARG:O	4:B4:43:TYR:HE1	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E4:34:VAL:O	4:E4:34:VAL:HG13	2.22	0.40
5:B5:51:LEU:HD12	5:B5:51:LEU:HA	1.88	0.40
5:B5:73:THR:HG22	5:B5:186:ARG:HH22	1.86	0.40
5:C5:113:THR:OG1	5:C5:158:ALA:HB3	2.22	0.40
5:C5:363:TYR:HE1	5:C5:399:ILE:HD11	1.86	0.40
5:E5:89:LEU:HB2	5:E5:180:GLU:OE1	2.21	0.40
5:E5:187:LEU:HD23	5:E5:187:LEU:HA	1.86	0.40
5:G5:372:LEU:HD11	5:G5:390:LEU:HD11	2.03	0.40
5:I5:98:VAL:HG22	5:I5:169:ALA:HB2	2.02	0.40
5:I5:211:ILE:HD11	5:I5:267:VAL:CG2	2.48	0.40
5:J5:315:ARG:HD2	5:J5:377:TRP:CE2	2.56	0.40
5:K5:60:PHE:HD1	5:L5:60:PHE:HE1	1.70	0.40
5:L5:375:ILE:HD12	5:L5:377:TRP:CH2	2.57	0.40
6:C6:21:PRO:HD3	6:C6:45:ILE:CD1	2.51	0.40
6:C6:288:GLY:O	6:C6:290:SER:N	2.54	0.40
6:D6:21:PRO:HD3	6:D6:45:ILE:HD13	2.04	0.40
6:D6:122:GLY:N	6:D6:139:LEU:H	2.19	0.40
6:D6:240:MET:SD	6:D6:306:ALA:HB2	2.62	0.40
6:E6:290:SER:HA	6:E6:369:ASN:ND2	2.34	0.40
6:E6:488:GLU:HB2	7:D7:95:VAL:HG23	2.02	0.40
6:F6:16:GLY:C	6:F6:18:ALA:H	2.25	0.40
6:F6:48:THR:HG23	6:F6:51:ALA:H	1.85	0.40
7:A7:35:ARG:NH1	7:A7:76:GLN:O	2.28	0.40
7:C7:14:PHE:CG	7:C7:15:GLY:N	2.89	0.40
7:C7:39:TRP:CD1	7:C7:39:TRP:N	2.90	0.40
7:E7:91:THR:HA	7:E7:95:VAL:C	2.42	0.40
7:F7:56:LEU:HB3	7:F7:66:ILE:CD1	2.45	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	A1	140/143 (98%)	133 (95%)	7 (5%)	0	100	100
1	B1	140/143 (98%)	133 (95%)	7 (5%)	0	100	100
1	C1	140/143 (98%)	133 (95%)	7 (5%)	0	100	100
1	D1	140/143 (98%)	133 (95%)	7 (5%)	0	100	100
1	E1	140/143 (98%)	133 (95%)	7 (5%)	0	100	100
1	F1	140/143 (98%)	132 (94%)	8 (6%)	0	100	100
2	A2	169/242 (70%)	156 (92%)	13 (8%)	0	100	100
2	B2	169/242 (70%)	155 (92%)	14 (8%)	0	100	100
2	C2	169/242 (70%)	155 (92%)	14 (8%)	0	100	100
2	D2	169/242 (70%)	156 (92%)	13 (8%)	0	100	100
2	E2	169/242 (70%)	155 (92%)	14 (8%)	0	100	100
2	F2	169/242 (70%)	156 (92%)	13 (8%)	0	100	100
3	A3	248/250 (99%)	214 (86%)	34 (14%)	0	100	100
3	B3	248/250 (99%)	214 (86%)	34 (14%)	0	100	100
3	C3	248/250 (99%)	214 (86%)	34 (14%)	0	100	100
3	D3	248/250 (99%)	214 (86%)	34 (14%)	0	100	100
3	E3	248/250 (99%)	214 (86%)	34 (14%)	0	100	100
3	F3	248/250 (99%)	214 (86%)	34 (14%)	0	100	100
4	A4	116/118 (98%)	101 (87%)	15 (13%)	0	100	100
4	B4	116/118 (98%)	101 (87%)	15 (13%)	0	100	100
4	C4	116/118 (98%)	101 (87%)	15 (13%)	0	100	100
4	D4	116/118 (98%)	101 (87%)	15 (13%)	0	100	100
4	E4	116/118 (98%)	101 (87%)	15 (13%)	0	100	100
4	F4	116/118 (98%)	101 (87%)	15 (13%)	0	100	100
5	A5	402/404 (100%)	360 (90%)	42 (10%)	0	100	100
5	B5	402/404 (100%)	355 (88%)	47 (12%)	0	100	100
5	C5	402/404 (100%)	358 (89%)	44 (11%)	0	100	100
5	D5	402/404 (100%)	360 (90%)	42 (10%)	0	100	100
5	E5	402/404 (100%)	359 (89%)	43 (11%)	0	100	100
5	F5	402/404 (100%)	356 (89%)	46 (11%)	0	100	100
5	G5	402/404 (100%)	361 (90%)	41 (10%)	0	100	100
5	H5	402/404 (100%)	355 (88%)	47 (12%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	I5	402/404 (100%)	359 (89%)	43 (11%)	0	100	100
5	J5	402/404 (100%)	358 (89%)	44 (11%)	0	100	100
5	K5	402/404 (100%)	359 (89%)	43 (11%)	0	100	100
5	L5	402/404 (100%)	356 (89%)	46 (11%)	0	100	100
6	A6	495/497 (100%)	441 (89%)	54 (11%)	0	100	100
6	B6	495/497 (100%)	441 (89%)	54 (11%)	0	100	100
6	C6	495/497 (100%)	441 (89%)	54 (11%)	0	100	100
6	D6	495/497 (100%)	441 (89%)	54 (11%)	0	100	100
6	E6	495/497 (100%)	441 (89%)	54 (11%)	0	100	100
6	F6	495/497 (100%)	441 (89%)	54 (11%)	0	100	100
7	A7	108/117 (92%)	87 (81%)	21 (19%)	0	100	100
7	B7	108/117 (92%)	87 (81%)	21 (19%)	0	100	100
7	C7	108/117 (92%)	87 (81%)	21 (19%)	0	100	100
7	D7	108/117 (92%)	87 (81%)	21 (19%)	0	100	100
7	E7	108/117 (92%)	87 (81%)	21 (19%)	0	100	100
7	F7	108/117 (92%)	87 (81%)	21 (19%)	0	100	100
All	All	12480/13050 (96%)	11084 (89%)	1396 (11%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A1	124/125 (99%)	123 (99%)	1 (1%)	81	93
1	B1	124/125 (99%)	123 (99%)	1 (1%)	81	93
1	C1	124/125 (99%)	123 (99%)	1 (1%)	81	93
1	D1	124/125 (99%)	123 (99%)	1 (1%)	81	93
1	E1	124/125 (99%)	123 (99%)	1 (1%)	81	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	F1	124/125 (99%)	123 (99%)	1 (1%)	81 93
2	A2	156/211 (74%)	152 (97%)	4 (3%)	46 76
2	B2	156/211 (74%)	152 (97%)	4 (3%)	46 76
2	C2	156/211 (74%)	152 (97%)	4 (3%)	46 76
2	D2	156/211 (74%)	152 (97%)	4 (3%)	46 76
2	E2	156/211 (74%)	152 (97%)	4 (3%)	46 76
2	F2	156/211 (74%)	152 (97%)	4 (3%)	46 76
3	A3	220/220 (100%)	220 (100%)	0	100 100
3	B3	220/220 (100%)	220 (100%)	0	100 100
3	C3	220/220 (100%)	219 (100%)	1 (0%)	88 95
3	D3	220/220 (100%)	220 (100%)	0	100 100
3	E3	220/220 (100%)	220 (100%)	0	100 100
3	F3	220/220 (100%)	220 (100%)	0	100 100
4	A4	106/106 (100%)	105 (99%)	1 (1%)	78 91
4	B4	106/106 (100%)	105 (99%)	1 (1%)	78 91
4	C4	106/106 (100%)	105 (99%)	1 (1%)	78 91
4	D4	106/106 (100%)	105 (99%)	1 (1%)	78 91
4	E4	106/106 (100%)	105 (99%)	1 (1%)	78 91
4	F4	106/106 (100%)	105 (99%)	1 (1%)	78 91
5	A5	352/353 (100%)	351 (100%)	1 (0%)	92 96
5	B5	353/353 (100%)	353 (100%)	0	100 100
5	C5	352/353 (100%)	350 (99%)	2 (1%)	86 94
5	D5	353/353 (100%)	353 (100%)	0	100 100
5	E5	352/353 (100%)	351 (100%)	1 (0%)	92 96
5	F5	353/353 (100%)	353 (100%)	0	100 100
5	G5	352/353 (100%)	352 (100%)	0	100 100
5	H5	353/353 (100%)	353 (100%)	0	100 100
5	I5	352/353 (100%)	351 (100%)	1 (0%)	92 96
5	J5	353/353 (100%)	353 (100%)	0	100 100
5	K5	352/353 (100%)	351 (100%)	1 (0%)	92 96
5	L5	353/353 (100%)	353 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
6	A6	407/407 (100%)	402 (99%)	5 (1%)	71 88
6	B6	407/407 (100%)	402 (99%)	5 (1%)	71 88
6	C6	407/407 (100%)	402 (99%)	5 (1%)	71 88
6	D6	407/407 (100%)	402 (99%)	5 (1%)	71 88
6	E6	407/407 (100%)	402 (99%)	5 (1%)	71 88
6	F6	407/407 (100%)	402 (99%)	5 (1%)	71 88
7	A7	98/105 (93%)	96 (98%)	2 (2%)	55 80
7	B7	98/105 (93%)	96 (98%)	2 (2%)	55 80
7	C7	98/105 (93%)	96 (98%)	2 (2%)	55 80
7	D7	98/105 (93%)	96 (98%)	2 (2%)	55 80
7	E7	98/105 (93%)	96 (98%)	2 (2%)	55 80
7	F7	98/105 (93%)	96 (98%)	2 (2%)	55 80
All	All	10896/11280 (97%)	10811 (99%)	85 (1%)	82 93

All (85) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A1	102	LYS
1	B1	102	LYS
1	C1	102	LYS
1	D1	102	LYS
1	E1	102	LYS
1	F1	102	LYS
2	A2	46	ASN
2	A2	50	ASP
2	A2	123	LYS
2	A2	127	VAL
2	B2	46	ASN
2	B2	50	ASP
2	B2	123	LYS
2	B2	127	VAL
2	C2	46	ASN
2	C2	50	ASP
2	C2	123	LYS
2	C2	127	VAL
2	D2	46	ASN
2	D2	50	ASP
2	D2	123	LYS

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Mol	Chain	Res	Type
2	D2	127	VAL
2	E2	46	ASN
2	E2	50	ASP
2	E2	123	LYS
2	E2	127	VAL
2	F2	46	ASN
2	F2	50	ASP
2	F2	123	LYS
2	F2	127	VAL
3	C3	148	GLU
4	A4	115	VAL
4	B4	115	VAL
4	C4	115	VAL
4	D4	115	VAL
4	E4	115	VAL
4	F4	115	VAL
5	A5	13	ASN
5	C5	1	MET
5	C5	13	ASN
5	E5	1	MET
5	I5	13	ASN
5	K5	1	MET
6	A6	1	MET
6	A6	37	LEU
6	A6	156	SER
6	A6	204	GLU
6	A6	424	ASN
6	B6	1	MET
6	B6	37	LEU
6	B6	156	SER
6	B6	204	GLU
6	B6	424	ASN
6	C6	1	MET
6	C6	37	LEU
6	C6	156	SER
6	C6	204	GLU
6	C6	424	ASN
6	D6	1	MET
6	D6	37	LEU
6	D6	156	SER
6	D6	204	GLU
6	D6	424	ASN

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Mol	Chain	Res	Type
6	E6	1	MET
6	E6	37	LEU
6	E6	156	SER
6	E6	204	GLU
6	E6	424	ASN
6	F6	1	MET
6	F6	37	LEU
6	F6	156	SER
6	F6	204	GLU
6	F6	424	ASN
7	A7	93	LYS
7	A7	103	ASP
7	B7	93	LYS
7	B7	103	ASP
7	C7	93	LYS
7	C7	103	ASP
7	D7	93	LYS
7	D7	103	ASP
7	E7	93	LYS
7	E7	103	ASP
7	F7	93	LYS
7	F7	103	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (92) such sidechains are listed below:

Mol	Chain	Res	Type
1	A1	25	GLN
1	B1	25	GLN
1	C1	25	GLN
1	D1	25	GLN
1	E1	25	GLN
1	F1	25	GLN
2	A2	71	ASN
2	B2	15	GLN
2	B2	71	ASN
2	C2	15	GLN
2	C2	71	ASN
2	D2	15	GLN
2	D2	71	ASN
2	E2	15	GLN
2	E2	71	ASN
2	F2	15	GLN

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Mol	Chain	Res	Type
2	F2	71	ASN
3	A3	103	GLN
3	A3	106	GLN
3	A3	114	GLN
3	B3	103	GLN
3	B3	106	GLN
3	B3	114	GLN
3	C3	103	GLN
3	C3	106	GLN
3	C3	114	GLN
3	D3	103	GLN
3	D3	106	GLN
3	D3	114	GLN
3	E3	103	GLN
3	E3	106	GLN
3	E3	114	GLN
3	F3	103	GLN
3	F3	106	GLN
3	F3	114	GLN
5	A5	13	ASN
5	A5	78	GLN
5	A5	190	GLN
5	A5	218	GLN
5	A5	320	GLN
5	B5	72	ASN
5	B5	78	GLN
5	B5	135	ASN
5	B5	320	GLN
5	C5	13	ASN
5	C5	38	GLN
5	C5	190	GLN
5	C5	320	GLN
5	C5	364	ASN
5	D5	13	ASN
5	D5	72	ASN
5	D5	78	GLN
5	D5	135	ASN
5	E5	38	GLN
5	E5	190	GLN
5	E5	218	GLN
5	E5	320	GLN
5	F5	13	ASN

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Mol	Chain	Res	Type
5	F5	72	ASN
5	F5	78	GLN
5	F5	135	ASN
5	G5	13	ASN
5	G5	38	GLN
5	G5	78	GLN
5	G5	190	GLN
5	G5	218	GLN
5	G5	320	GLN
5	H5	13	ASN
5	H5	72	ASN
5	H5	78	GLN
5	H5	135	ASN
5	H5	320	GLN
5	I5	13	ASN
5	I5	157	GLN
5	I5	320	GLN
5	I5	364	ASN
5	J5	72	ASN
5	J5	135	ASN
5	K5	38	GLN
5	K5	190	GLN
5	K5	218	GLN
5	K5	320	GLN
5	L5	13	ASN
5	L5	72	ASN
5	L5	135	ASN
6	A6	117	ASN
6	A6	424	ASN
6	B6	117	ASN
6	C6	117	ASN
6	D6	117	ASN
6	E6	117	ASN
6	F6	117	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

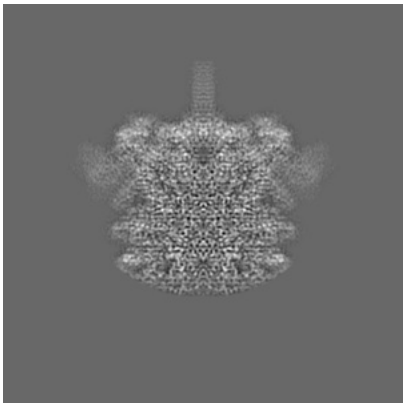
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-22873. These allow visual inspection of the internal detail of the map and identification of artifacts.

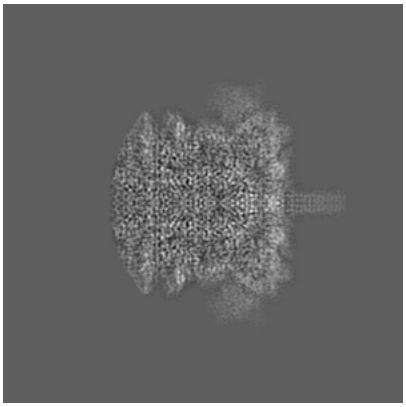
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

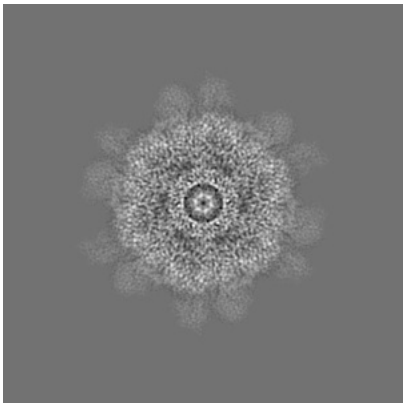
6.1.1 Primary map



X



Y

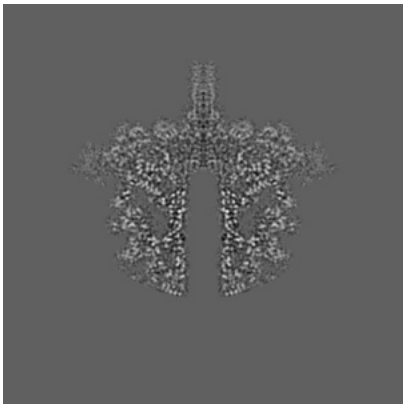


Z

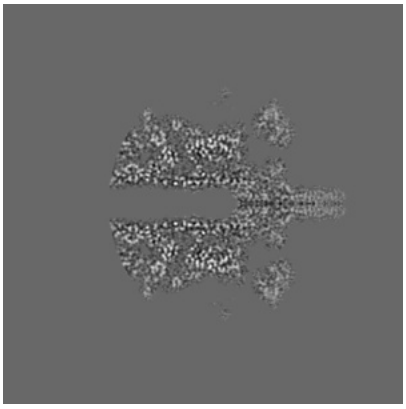
The images above show the map projected in three orthogonal directions.

6.2 Central slices

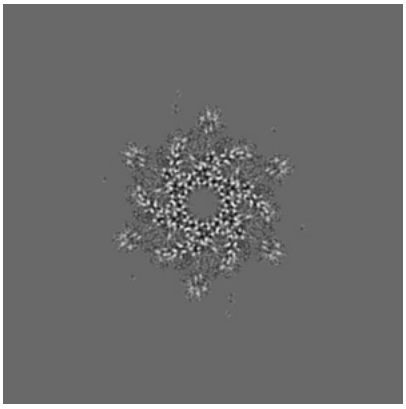
6.2.1 Primary map



X Index: 256



Y Index: 256

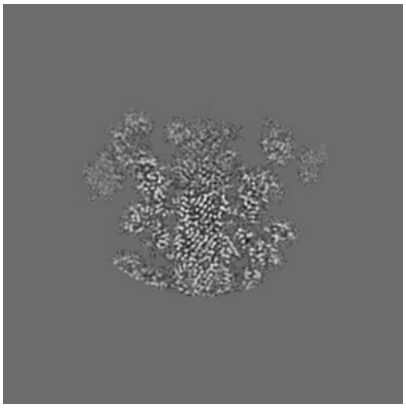


Z Index: 256

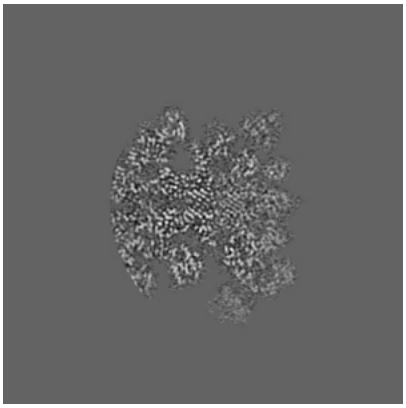
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

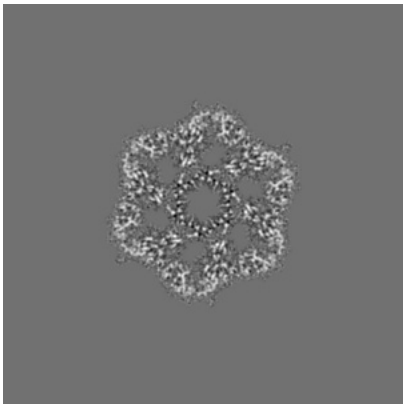
6.3.1 Primary map



X Index: 285



Y Index: 280

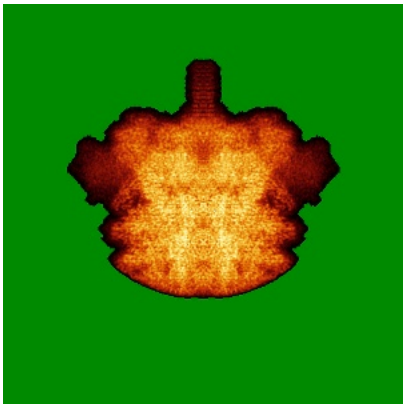


Z Index: 224

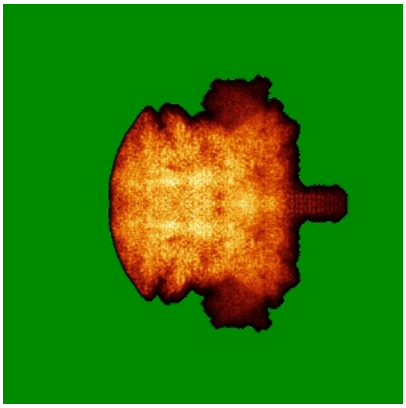
The images above show the largest variance slices of the map in three orthogonal directions.

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

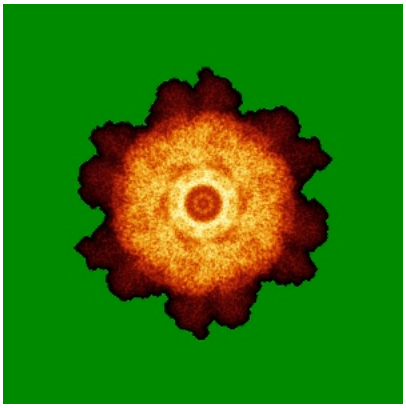
6.4.1 Primary map



X



Y

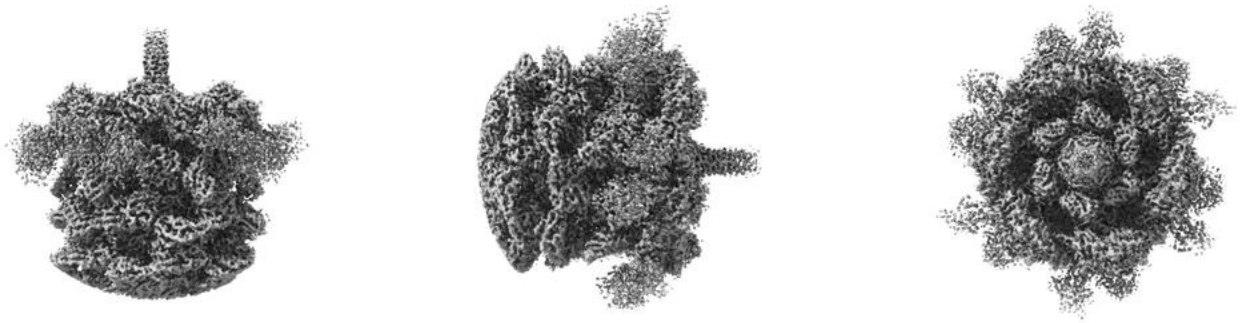


Z

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 2.4. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

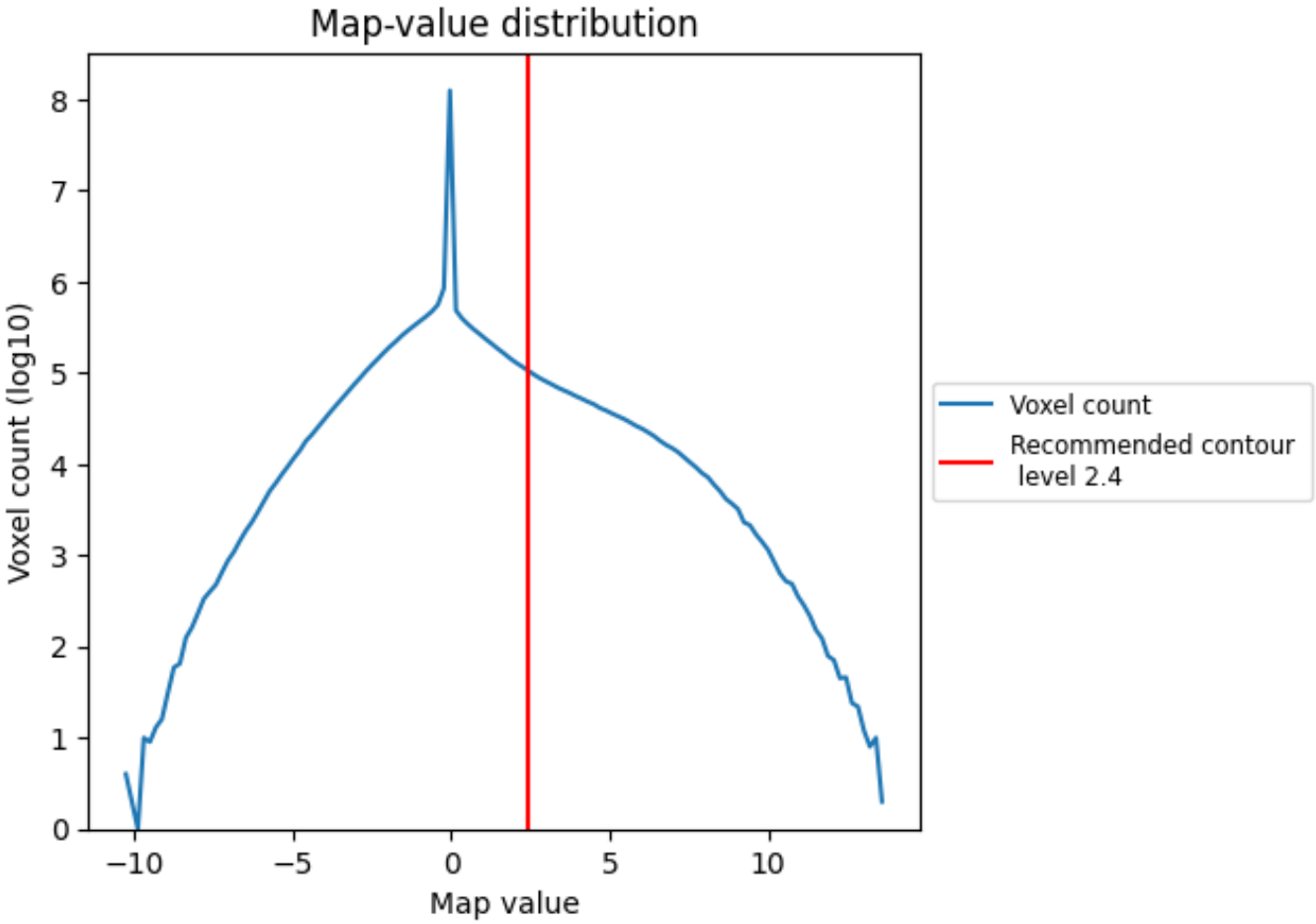
6.6 Mask visualisation (i)

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

7 Map analysis

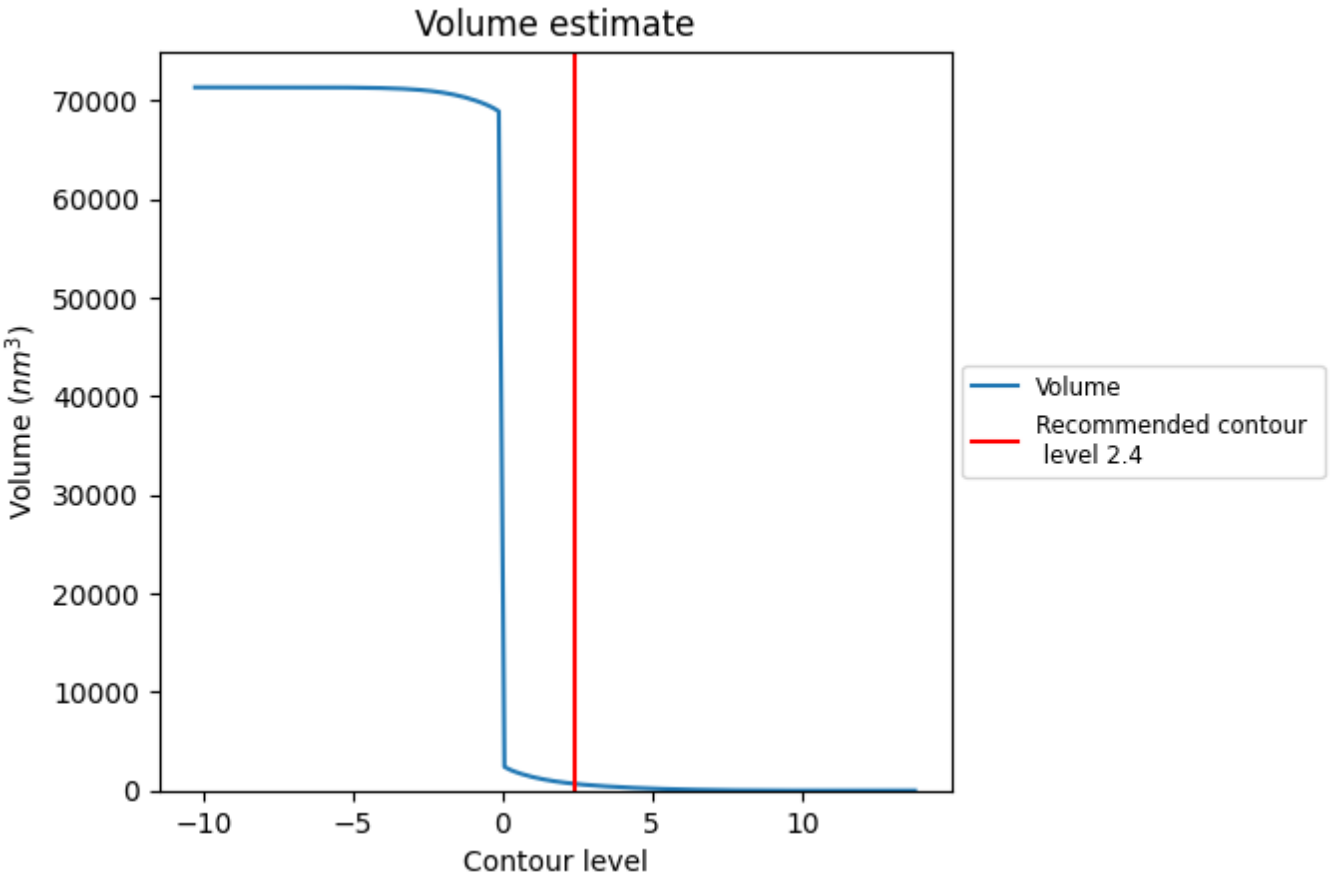
This section contains the results of statistical analysis of the map.

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.

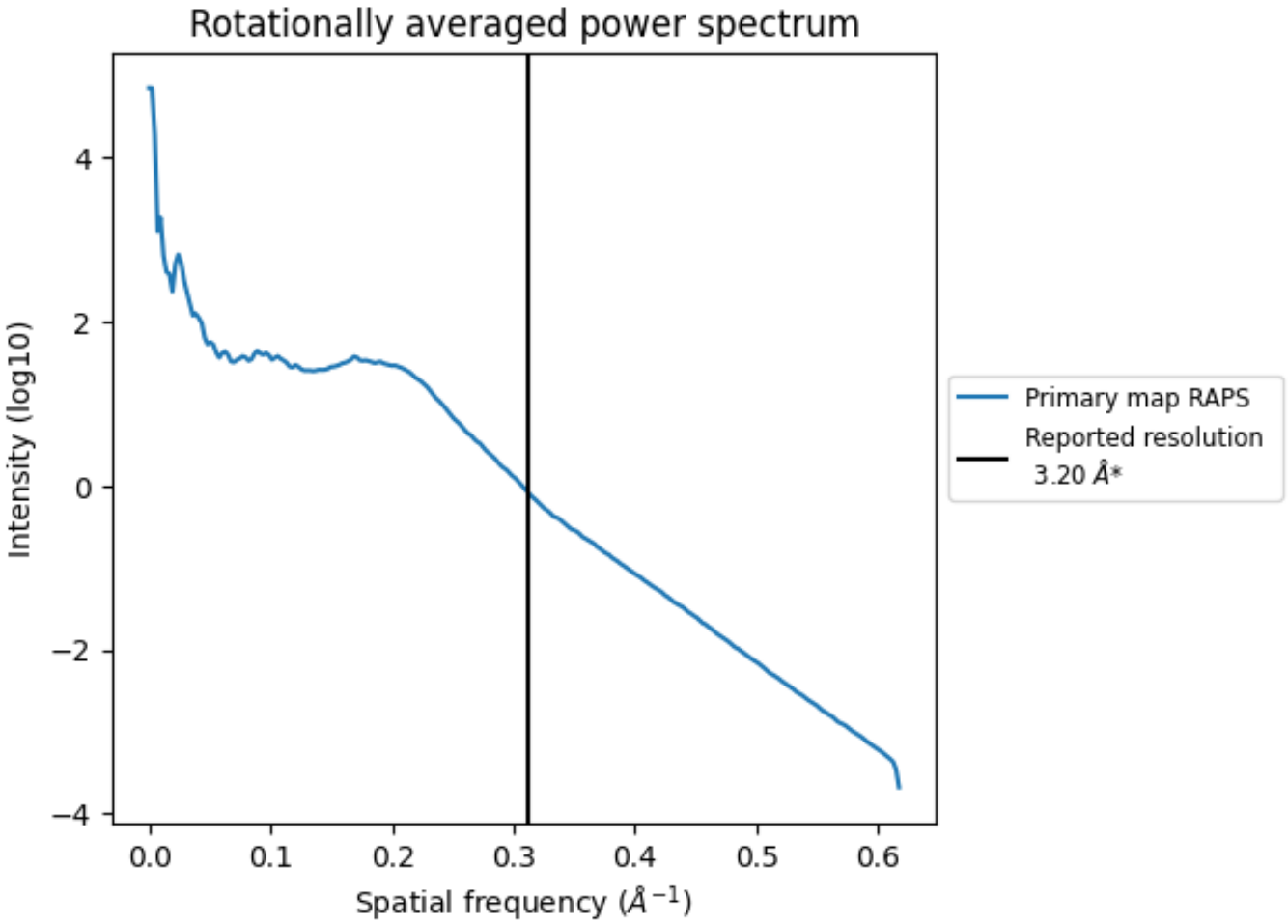
7.2 Volume estimate



The volume at the recommended contour level is 692 nm^3; this corresponds to an approximate mass of 625 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)

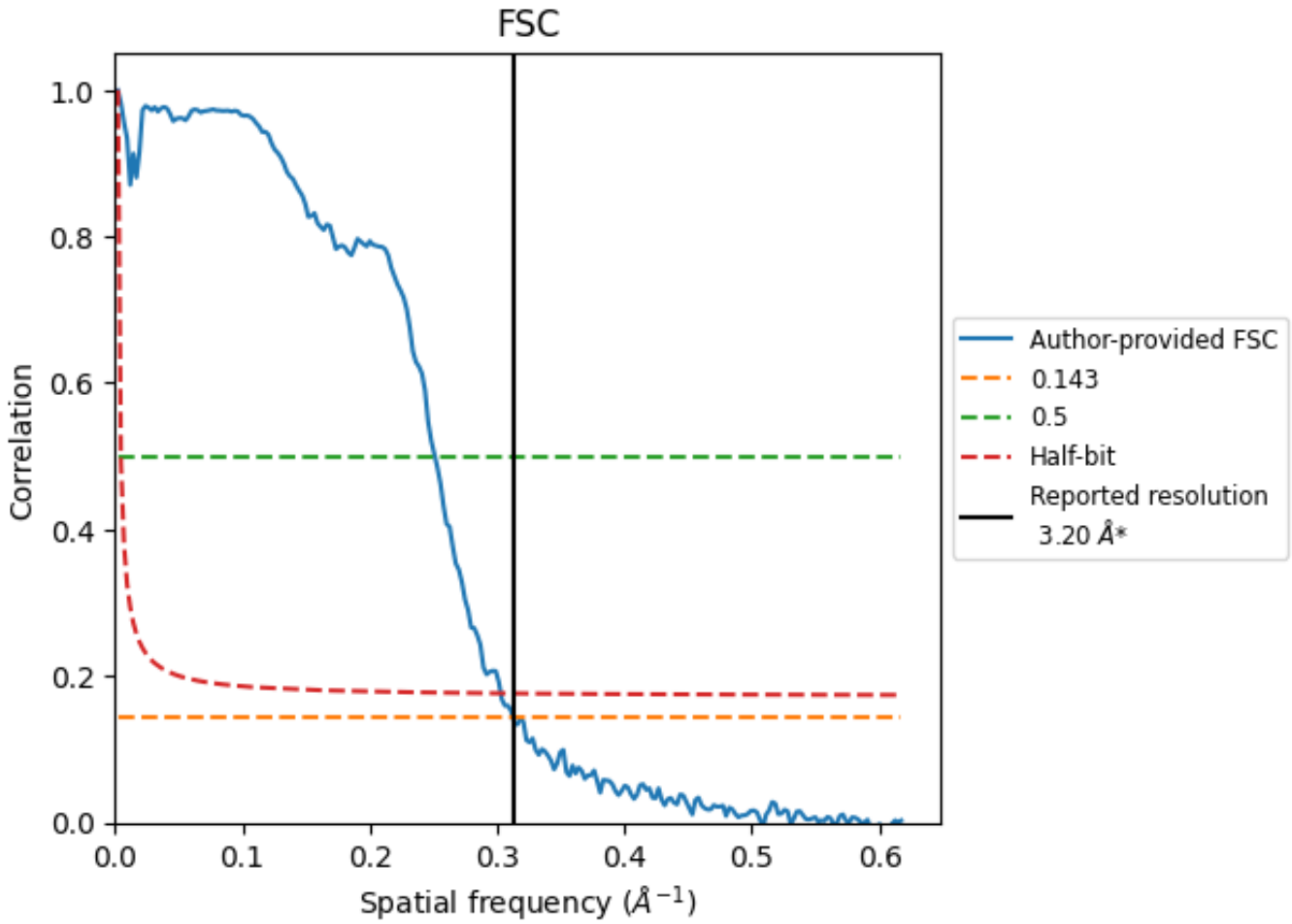


*Reported resolution corresponds to spatial frequency of 0.312 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.312 Å^{-1}

8.2 Resolution estimates (i)

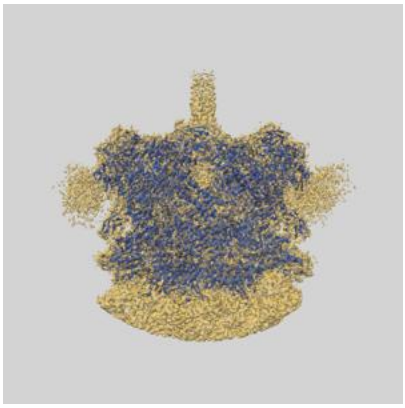
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.20	-	-
Author-provided FSC curve	3.20	3.98	3.30
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

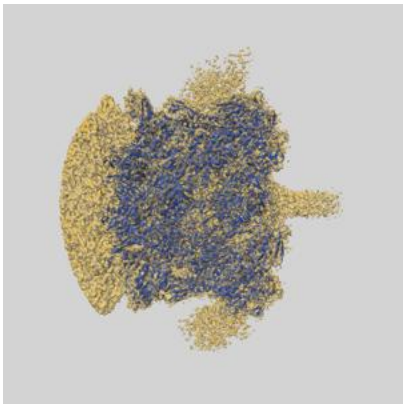
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-22873 and PDB model 7KH1. Per-residue inclusion information can be found in section 3 on page 9.

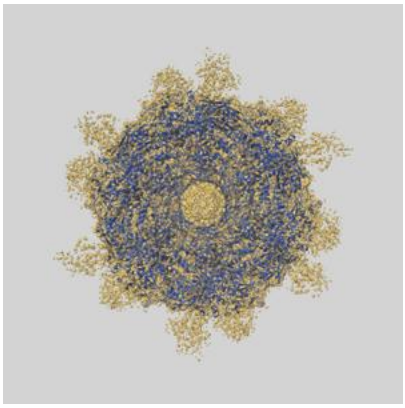
9.1 Map-model overlay



X



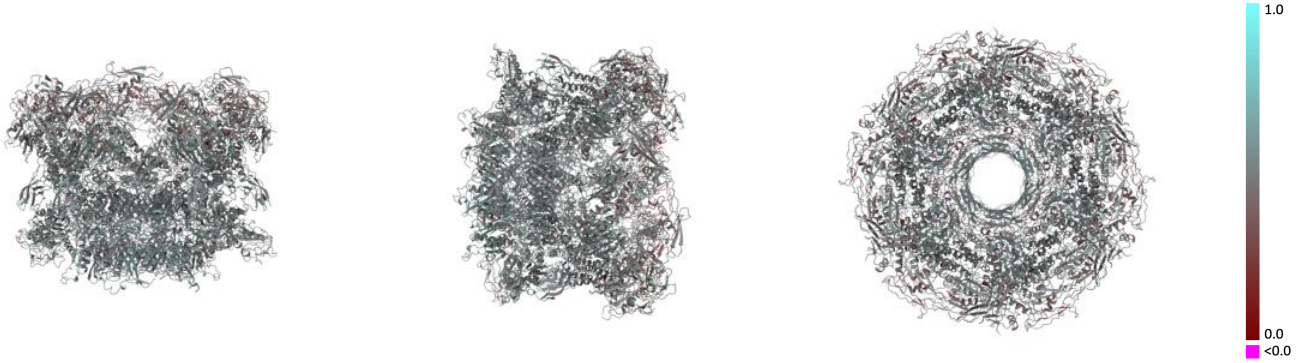
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.4 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

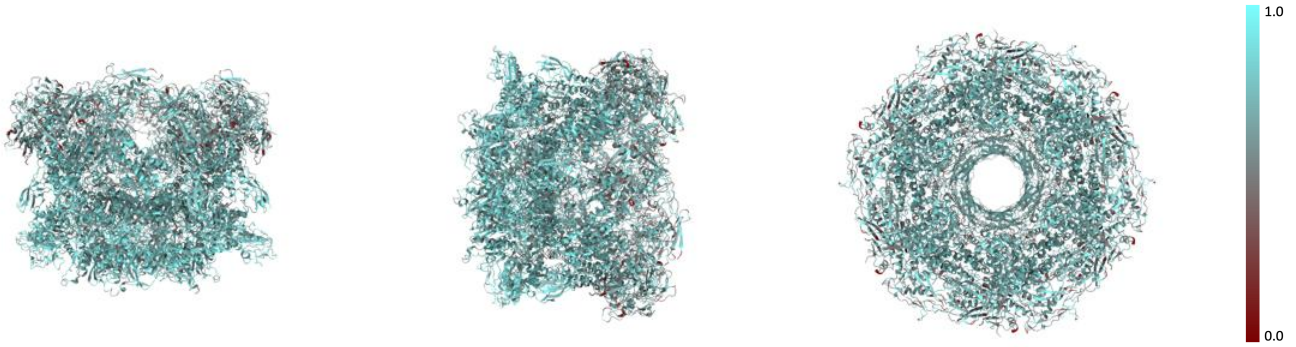
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

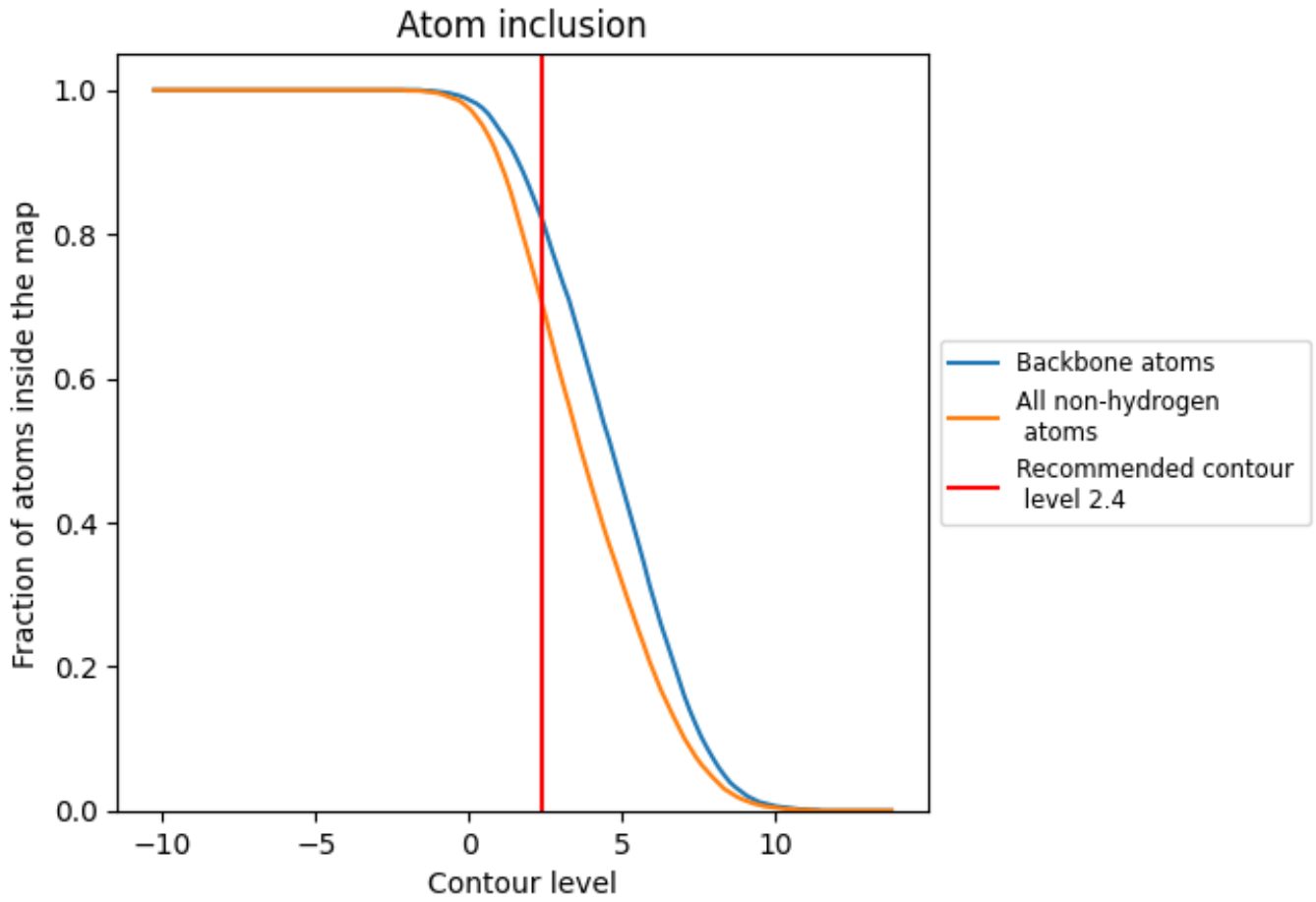
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.4).

9.4 Atom inclusion (i)



At the recommended contour level, 82% of all backbone atoms, 70% 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 (2.4) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7020	0.4930
A1	0.7700	0.5370
A2	0.6420	0.4680
A3	0.7160	0.5170
A4	0.7590	0.5200
A5	0.6740	0.4760
A6	0.7440	0.5030
A7	0.7190	0.5160
B1	0.7760	0.5390
B2	0.6440	0.4690
B3	0.7060	0.5170
B4	0.7620	0.5230
B5	0.6510	0.4630
B6	0.7470	0.5040
B7	0.7220	0.5160
C1	0.7630	0.5380
C2	0.6390	0.4700
C3	0.7150	0.5160
C4	0.7590	0.5240
C5	0.6720	0.4760
C6	0.7460	0.5040
C7	0.7250	0.5160
D1	0.7720	0.5380
D2	0.6370	0.4690
D3	0.7150	0.5170
D4	0.7600	0.5230
D5	0.6470	0.4620
D6	0.7440	0.5040
D7	0.7260	0.5170
E1	0.7670	0.5380
E2	0.6440	0.4690
E3	0.7060	0.5190
E4	0.7620	0.5220
E5	0.6720	0.4750
E6	0.7460	0.5030

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Chain	Atom inclusion	Q-score
E7	0.7260	0.5140
F1	0.7690	0.5370
F2	0.6410	0.4670
F3	0.7170	0.5170
F4	0.7600	0.5220
F5	0.6520	0.4650
F6	0.7450	0.5030
F7	0.7230	0.5140
G5	0.6760	0.4770
H5	0.6510	0.4640
I5	0.6730	0.4740
J5	0.6450	0.4620
K5	0.6720	0.4750
L5	0.6510	0.4630