Full wwPDB EM Validation Report ⓘ

Jul 9, 2026 – 09:35 PM JST

PDB ID	:	9W2M / pdb_00009w2m
EMDB ID	:	EMD-65575
Title	:	Cryo-EM structure of the Cytoplasmic lattice(CPL) from mouse oocyte
Authors	:	Liu, S.X.; Xue, J.C.; Zhang, Y.; Liu, Y.S.; Gao, H.S.; Shen, E.Z.
Deposited on	:	2025-07-28
Resolution	:	4.20 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:

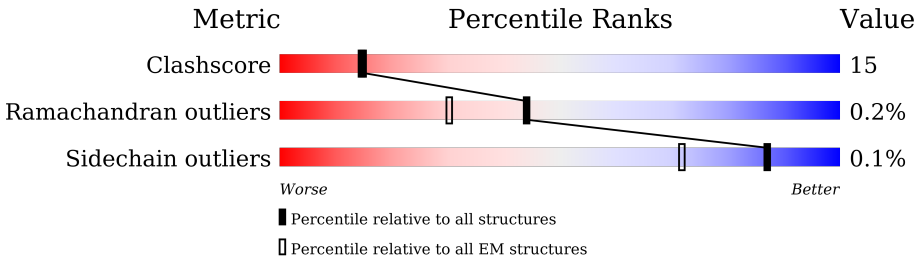
EMDB validation analysis	:	0.0.1.dev133
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

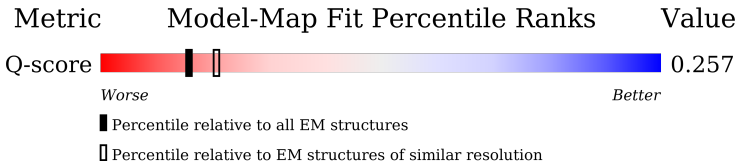
1 Overall quality at a glance

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

The reported resolution of this entry is 4.20 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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	5410 (3.70 - 4.70)

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	1	682	71% 29%
1	11	682	69% 30%
1	12	682	74% 26%
1	13	682	67% 33%

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Mol	Chain	Length	Quality of chain
1	14	682	66% 34%
1	15	682	60% 40%
1	16	682	63% 37%
1	17	682	71% 29%
1	18	682	67% 33%
1	19	682	63% 37%
1	2	682	74% 26%
1	3	682	68% 31%
1	4	682	67% 33%
1	5	682	62% 37%
1	6	682	64% 36%
1	7	682	73% 27%
1	8	682	71% 29%
1	9	682	64% 36%
1	Z	682	68% 31%
1	z	682	67% 33%
2	C	125	67% 32%
2	H	125	45% 24% 28%
2	c	125	68% 31%
2	h	125	48% 24% 28%
3	D	128	60% 40%
3	d	128	63% 36%
4	E	933	29% 62% 37%
4	I	933	30% 59% 32% 9%
4	e	933	29% 62% 38%

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Mol	Chain	Length	Quality of chain
4	i	933	30% 57% 34% 9%
5	J	466	68% 32%
5	j	466	66% 33%
6	K	163	19% 63% 33%
6	k	163	20% 61% 34%
7	O	147	65% 35%
7	o	147	67% 33%
8	P	782	41% 18% 41%
8	Q	782	5% 8% 87%
8	p	782	41% 18% 41%
8	q	782	6% 7% 87%
9	R	55	51% 44% 5%
9	r	55	56% 42%
10	N	966	10% 67% 33%
10	n	966	10% 68% 31%
11	L	445	60% 34% 6%
11	l	445	59% 35% 6%
12	M	445	58% 36% 6%
12	m	445	60% 34% 6%
13	A	963	70% 29%
13	F	963	67% 31%
13	a	963	71% 28%
13	f	963	68% 31%
14	B	436	55% 22% 24%
14	G	436	58% 26% 16%

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Mol	Chain	Length	Quality of chain
14	b	436	
14	g	436	

2 Entry composition (i)

There are 16 unique types of molecules in this entry. The entry contains 234055 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 Inactive protein-arginine deiminase type-6.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	1	682	Total	C	N	O	S	0	0
			5386	3440	888	1019	39		
1	Z	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	z	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	2	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	3	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	4	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	5	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	6	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	7	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	8	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	9	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	12	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	11	682	Total	C	N	O	S	0	0
			5386	3440	888	1019	39		
1	19	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	15	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	16	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	14	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	13	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	17	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		
1	18	682	Total	C	N	O	S	0	0
			5388	3442	888	1019	39		

- Molecule 2 is a protein called Oocyte-expressed protein homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	C	125	Total	C	N	O	S	0	0
			1003	642	174	182	5		
2	H	90	Total	C	N	O	S	0	0
			726	465	124	132	5		
2	c	125	Total	C	N	O	S	0	0
			1003	642	174	182	5		
2	h	90	Total	C	N	O	S	0	0
			726	465	124	132	5		

- Molecule 3 is a protein called KH domain-containing protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D	128	Total	C	N	O	S	0	0
			1069	690	191	179	9		
3	d	128	Total	C	N	O	S	0	0
			1069	690	191	179	9		

- Molecule 4 is a protein called NLR family, pyrin domain containing 4F.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	E	933	Total	C	N	O	S	0	0
			7519	4801	1254	1394	70		
4	I	847	Total	C	N	O	S	0	0
			6805	4340	1131	1267	67		
4	e	933	Total	C	N	O	S	0	0
			7519	4801	1254	1394	70		
4	i	847	Total	C	N	O	S	0	0
			6805	4340	1131	1267	67		

- Molecule 5 is a protein called FBXW24.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	J	466	Total	C	N	O	S	0	0
			3747	2411	627	676	33		
5	j	466	Total	C	N	O	S	0	0
			3747	2411	627	676	33		

- Molecule 6 is a protein called S-phase kinase-associated protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	K	158	Total	C	N	O	S	0	0
			1261	791	204	260	6		
6	k	158	Total	C	N	O	S	0	0
			1261	791	204	260	6		

- Molecule 7 is a protein called Ubiquitin-conjugating enzyme E2 D3.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	O	147	Total	C	N	O	S	0	0
			1174	751	200	215	8		
7	o	147	Total	C	N	O	S	0	0
			1174	751	200	215	8		

- Molecule 8 is a protein called E3 ubiquitin-protein ligase UHRF1.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	Q	104	Total	C	N	O	S	0	0
			856	537	164	150	5		
8	q	104	Total	C	N	O	S	0	0
			856	537	164	150	5		
8	P	464	Total	C	N	O	S	0	0
			3704	2313	673	691	27		
8	p	460	Total	C	N	O	S	0	0
			3675	2297	669	683	26		

- Molecule 9 is a protein called Zinc finger BED domain-containing protein 3.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	R	55	Total	C	N	O	S	0	0
			445	282	83	74	6		
9	r	55	Total	C	N	O	S	0	0
			445	282	83	74	6		

- Molecule 10 is a protein called NACHT, LRR and PYD domains-containing protein 14.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	N	962	Total	C	N	O	S	0	0
			7689	4887	1317	1421	64		
10	n	962	Total	C	N	O	S	0	0
			7689	4887	1317	1421	64		

- Molecule 11 is a protein called Tubulin beta-2A chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	L	420	Total	C	N	O	S	0	0
			3288	2061	564	638	25		
11	l	420	Total	C	N	O	S	0	0
			3288	2061	564	638	25		

- Molecule 12 is a protein called Tubulin beta-2B chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	M	420	Total	C	N	O	S	0	0
			3290	2062	564	638	26		
12	m	420	Total	C	N	O	S	0	0
			3290	2062	564	638	26		

- Molecule 13 is a protein called Isoform 4 of NACHT, LRR and PYD domains-containing protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	A	949	Total	C	N	O	S	0	0
			7481	4760	1267	1388	66		
13	F	949	Total	C	N	O	S	0	0
			7481	4760	1267	1388	66		
13	a	949	Total	C	N	O	S	0	0
			7481	4760	1267	1388	66		
13	f	949	Total	C	N	O	S	0	0
			7481	4760	1267	1388	66		

- Molecule 14 is a protein called Transducin-like enhancer protein 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	B	333	Total	C	N	O	S	0	0
			2626	1666	462	479	19		
14	G	366	Total	C	N	O	S	0	0
			2890	1833	507	530	20		
14	b	333	Total	C	N	O	S	0	0
			2626	1666	462	479	19		

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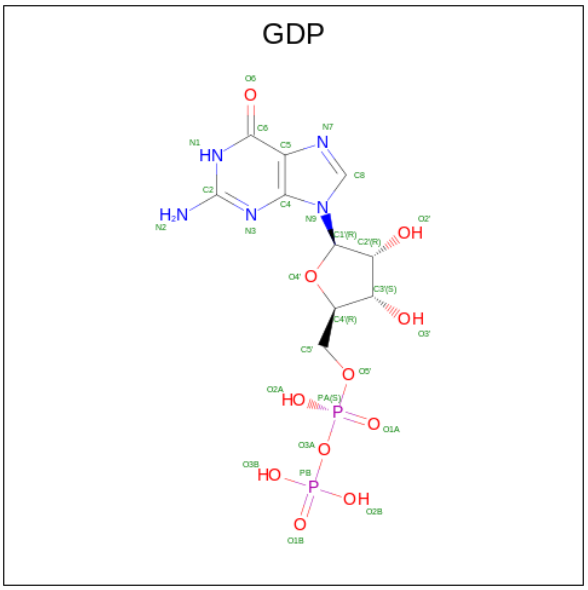
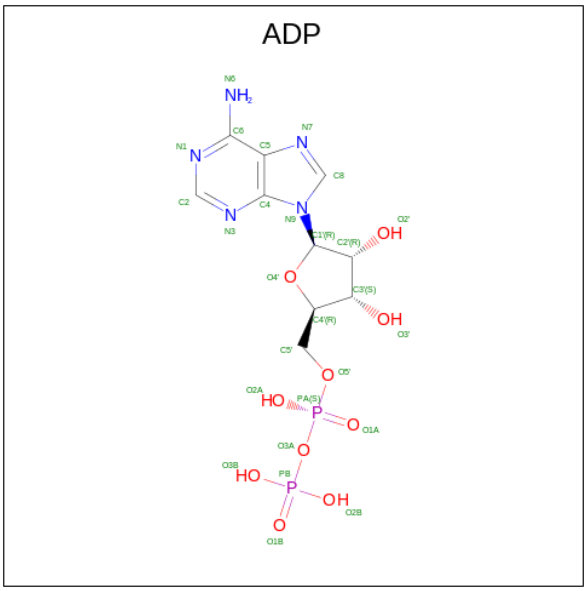
Mol	Chain	Residues	Atoms					AltConf	Trace
14	g	366	Total	C	N	O	S	0	0
			2890	1833	507	530	20		

- Molecule 15 is GUANOSINE-5'-DIPHOSPHATE (CCD ID: GDP) (formula: $C_{10}H_{15}N_5O_{11}P_2$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					AltConf
15	L	1	Total	C	N	O	P	0
			28	10	5	11	2	
15	M	1	Total	C	N	O	P	0
			28	10	5	11	2	
15	l	1	Total	C	N	O	P	0
			28	10	5	11	2	
15	m	1	Total	C	N	O	P	0
			28	10	5	11	2	

- Molecule 16 is ADENOSINE-5'-DIPHOSPHATE (CCD ID: ADP) (formula: $C_{10}H_{15}N_5O_{10}P_2$) (labeled as "Ligand of Interest" by depositor).



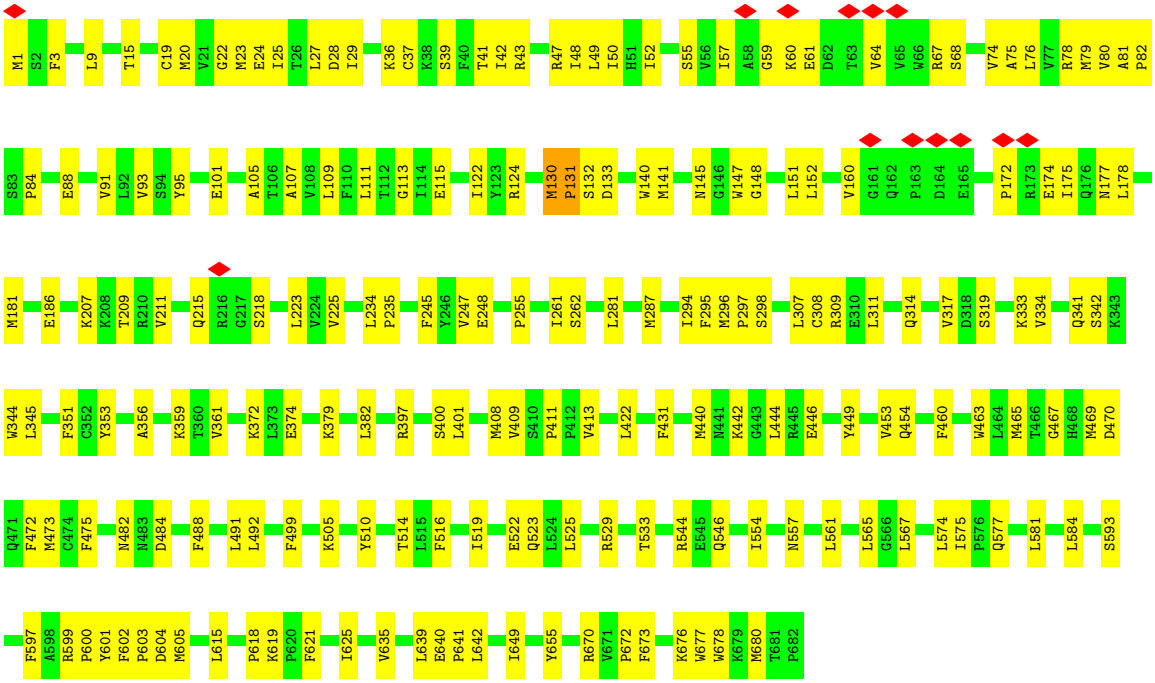
Mol	Chain	Residues	Atoms					AltConf
16	A	1	Total	C	N	O	P	0
			27	10	5	10	2	
16	F	1	Total	C	N	O	P	0
			27	10	5	10	2	
16	a	1	Total	C	N	O	P	0
			27	10	5	10	2	
16	f	1	Total	C	N	O	P	0
			27	10	5	10	2	

3 Residue-property plots (i)

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

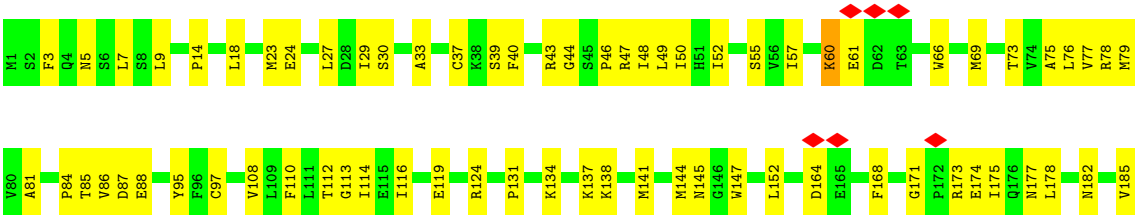
• Molecule 1: Inactive protein-arginine deiminase type-6

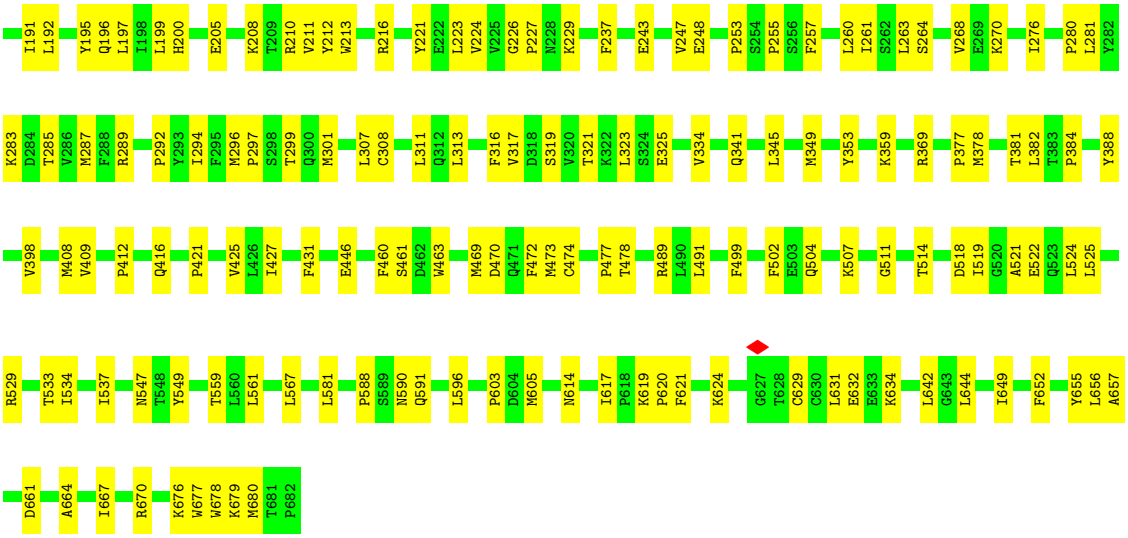
Chain 1:



• Molecule 1: Inactive protein-arginine deiminase type-6

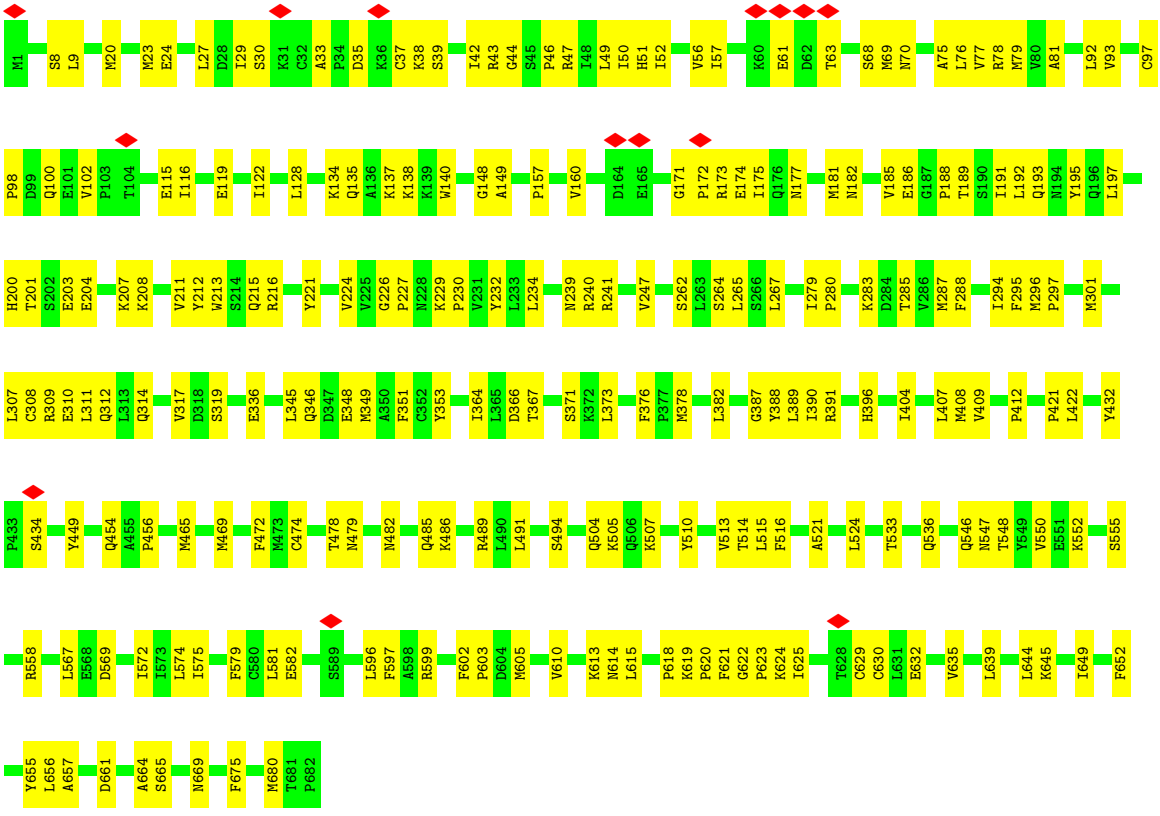
Chain Z:





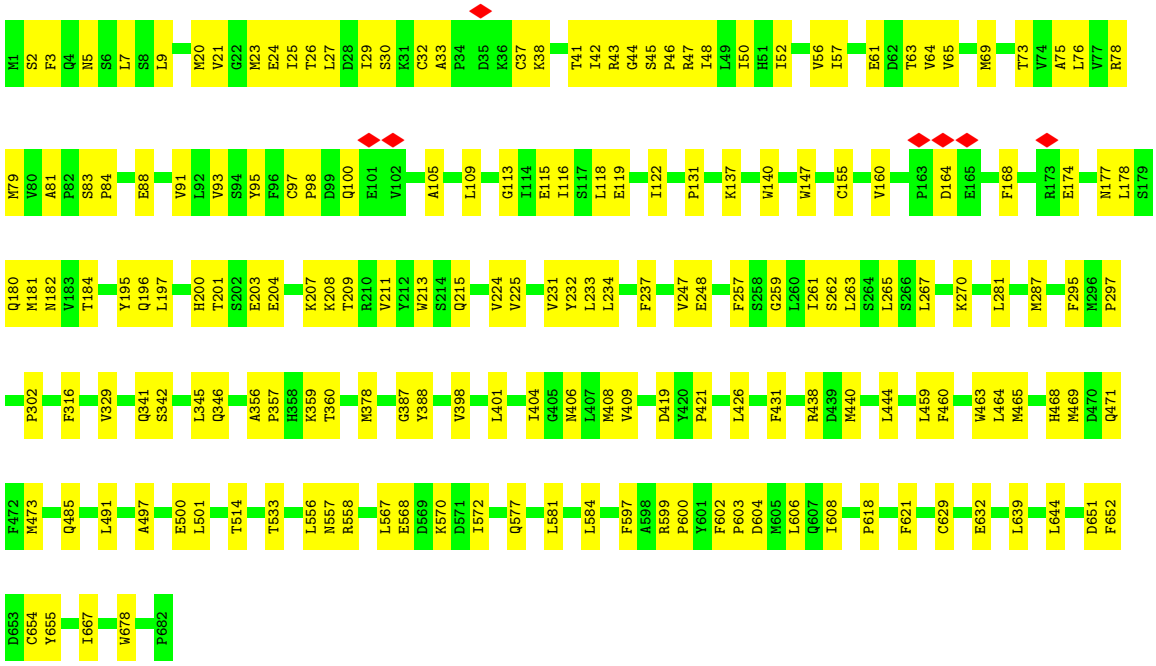
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain z:



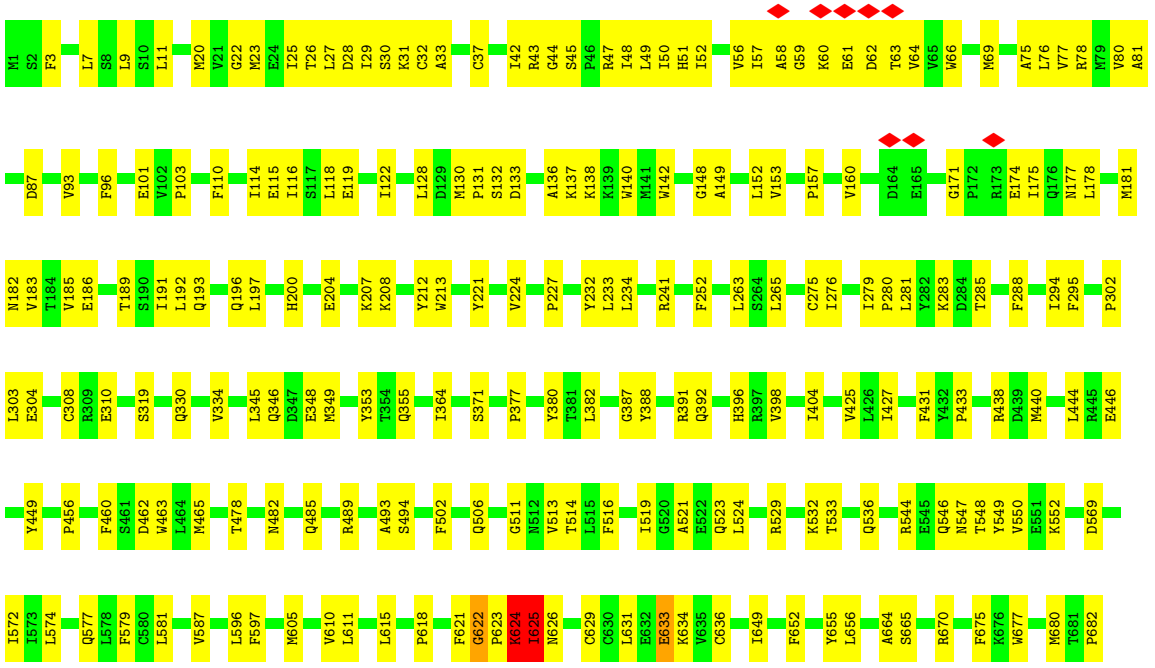
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain 2:



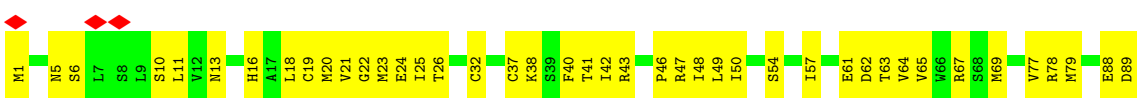
• Molecule 1: Inactive protein-arginine deiminase type-6

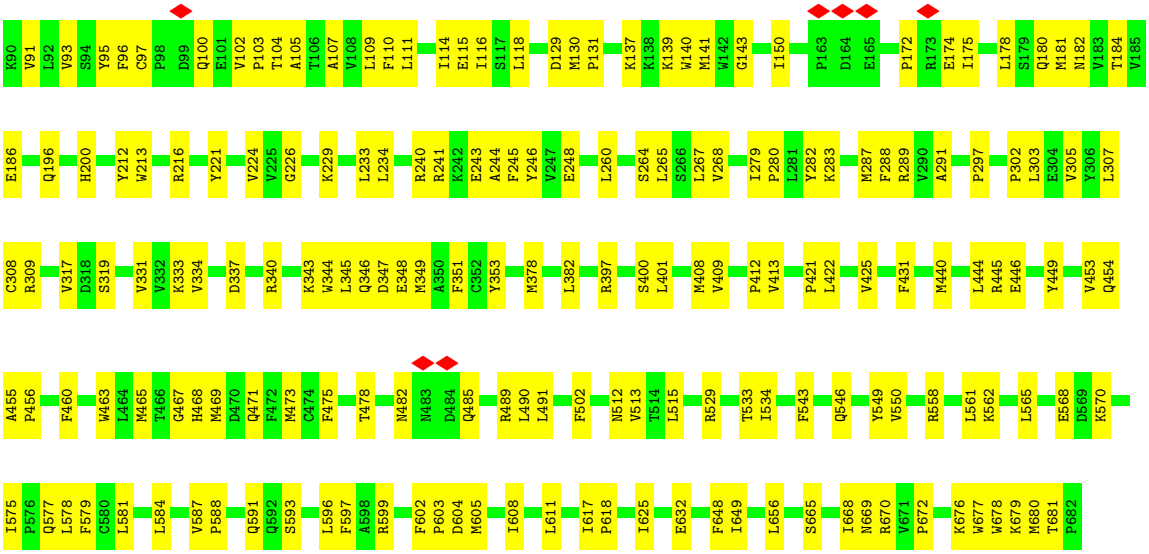
Chain 3:



• Molecule 1: Inactive protein-arginine deiminase type-6

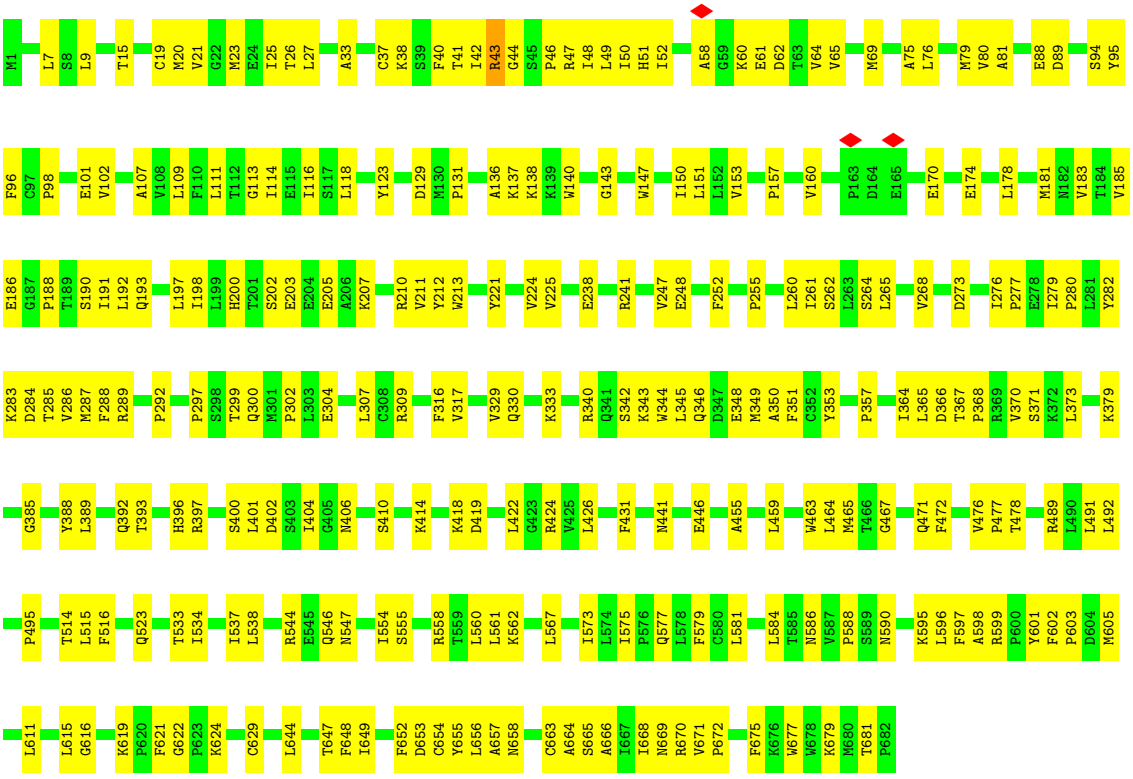
Chain 4:





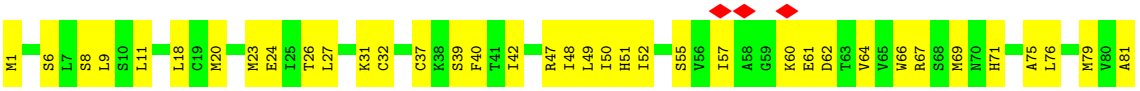
• Molecule 1: Inactive protein-arginine deiminase type-6

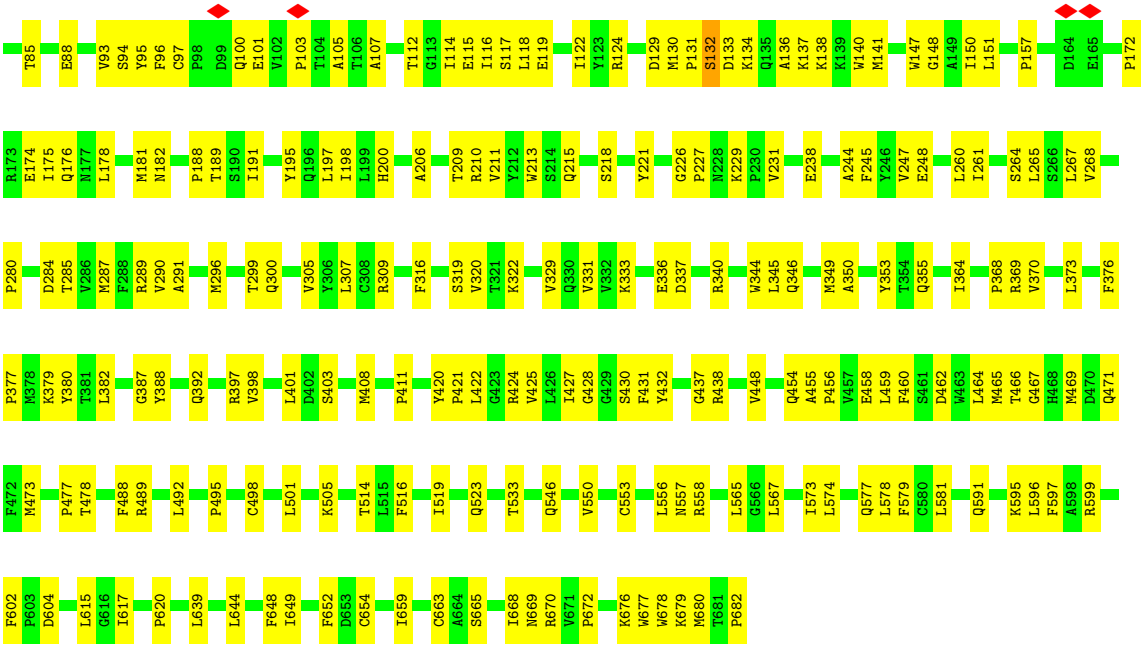
Chain 5:



• Molecule 1: Inactive protein-arginine deiminase type-6

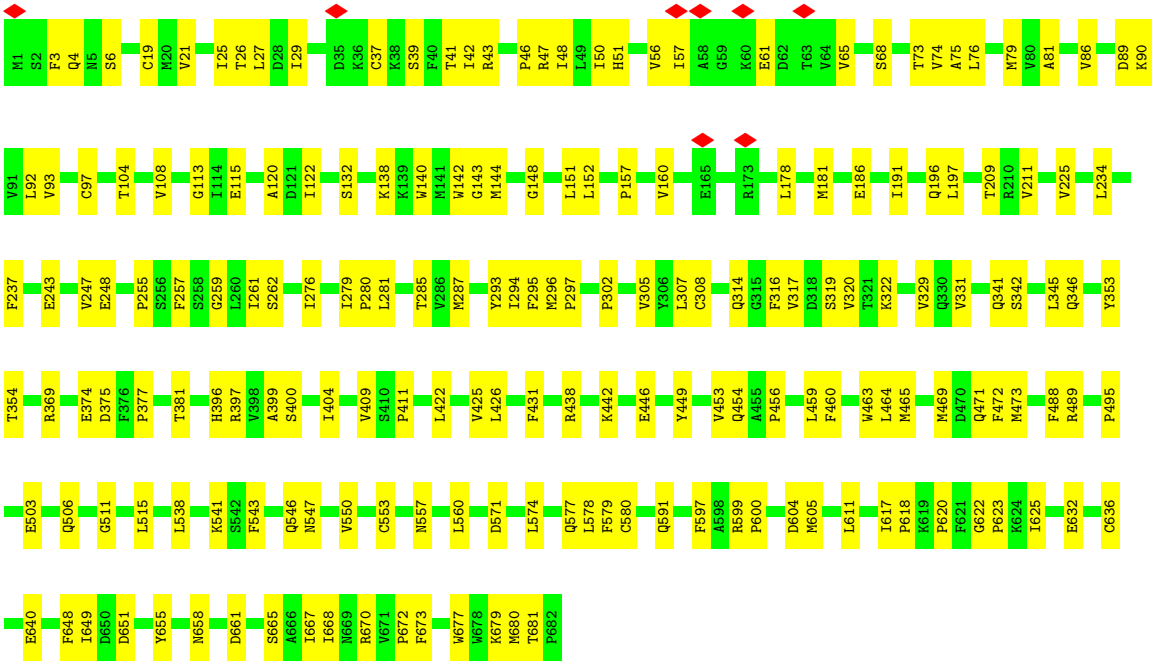
Chain 6:





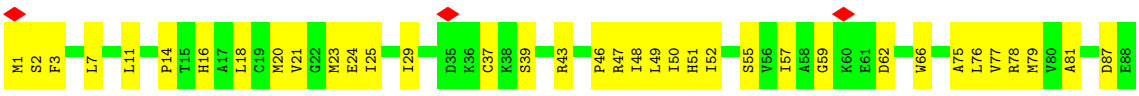
• Molecule 1: Inactive protein-arginine deiminase type-6

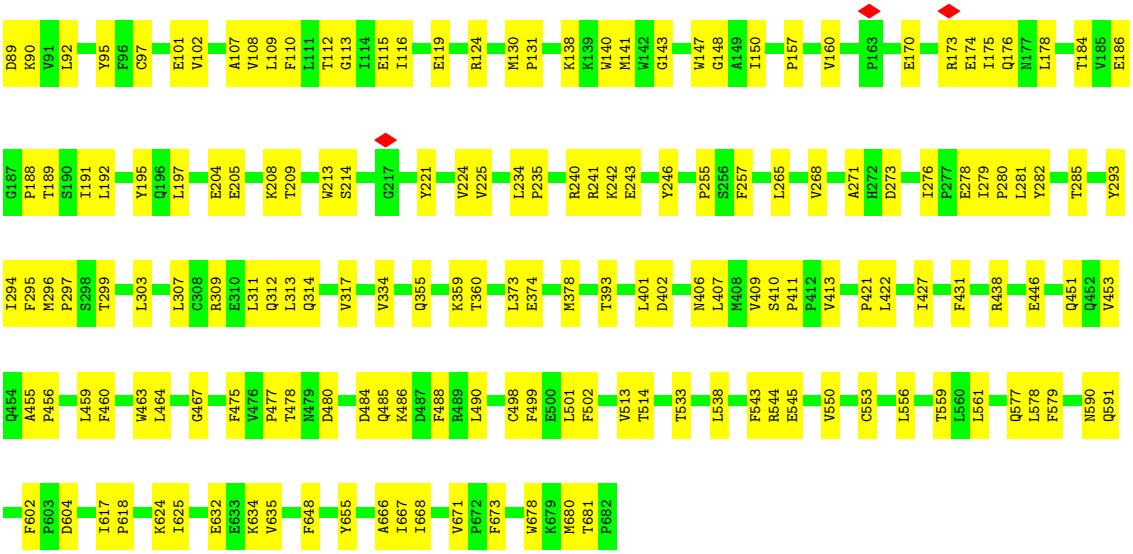
Chain 7:



• Molecule 1: Inactive protein-arginine deiminase type-6

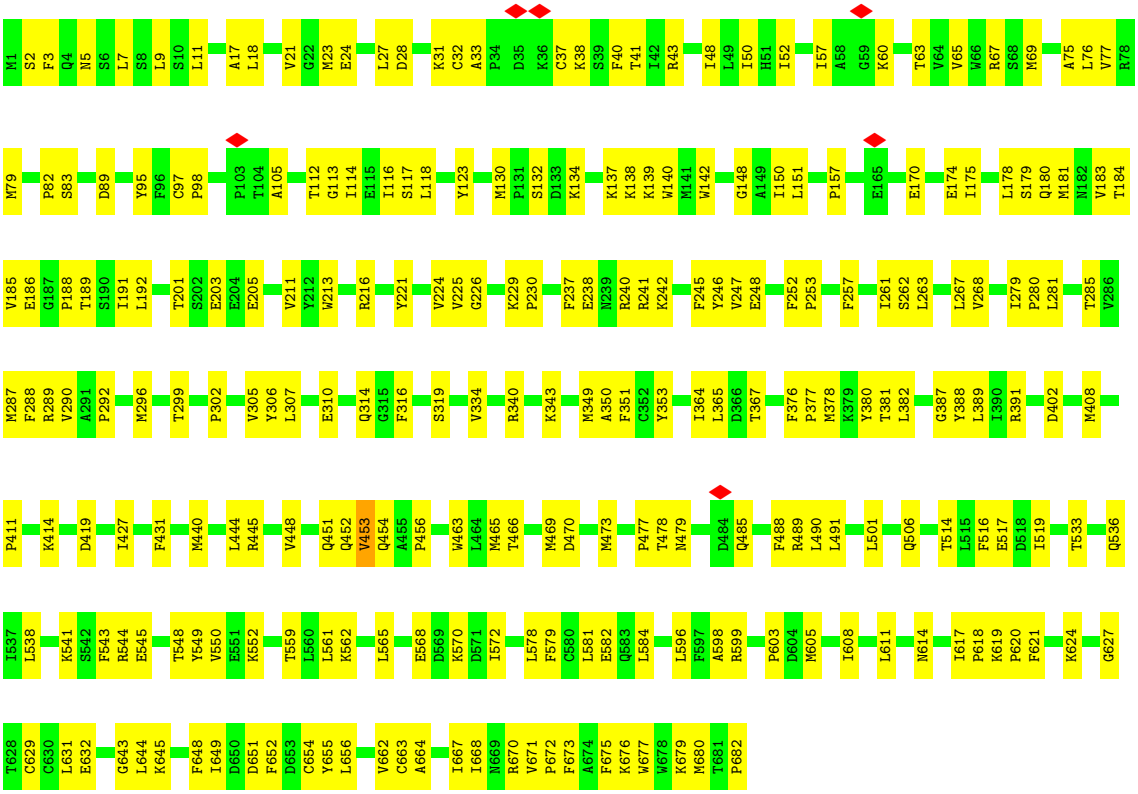
Chain 8:





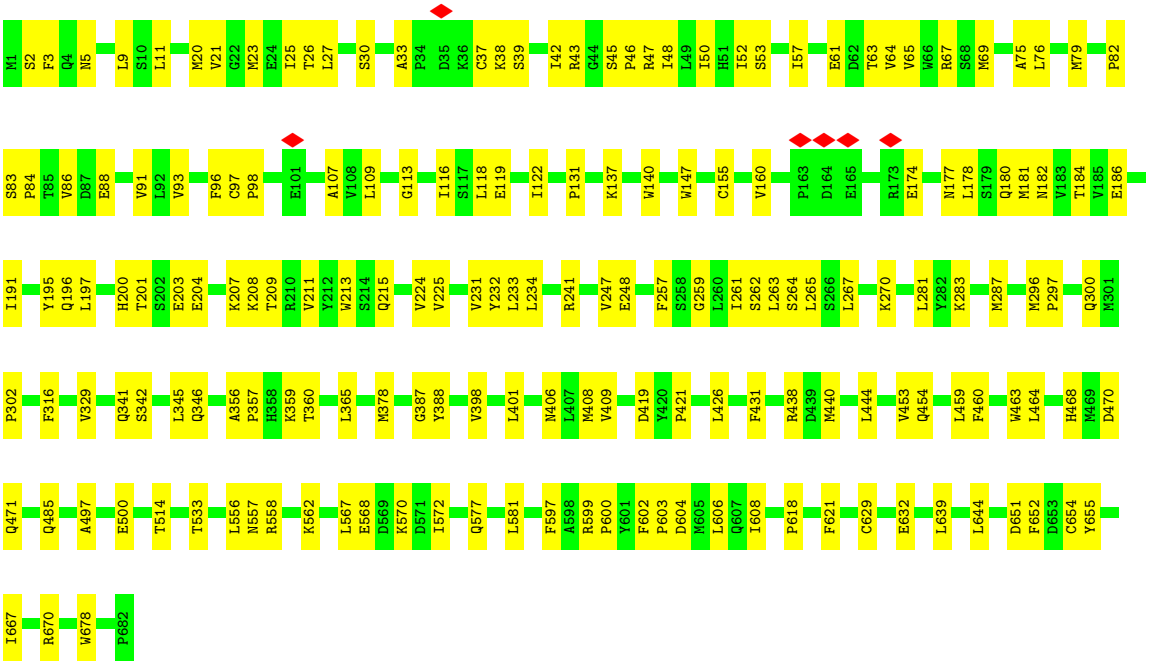
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain 9:



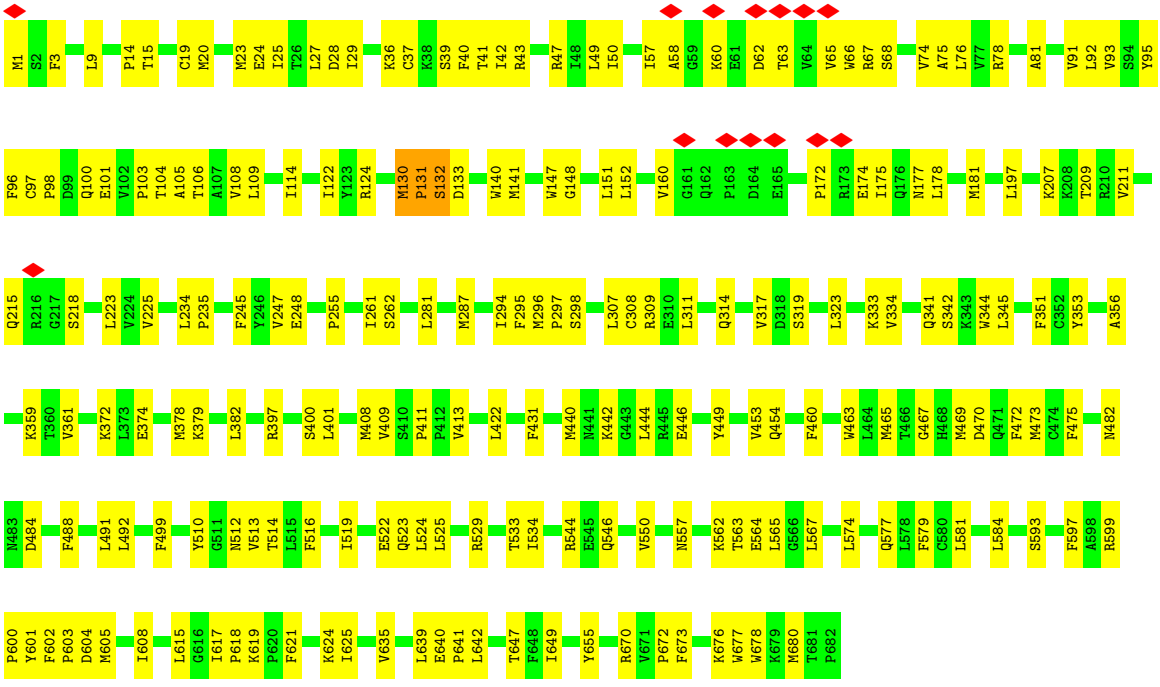
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain 12:



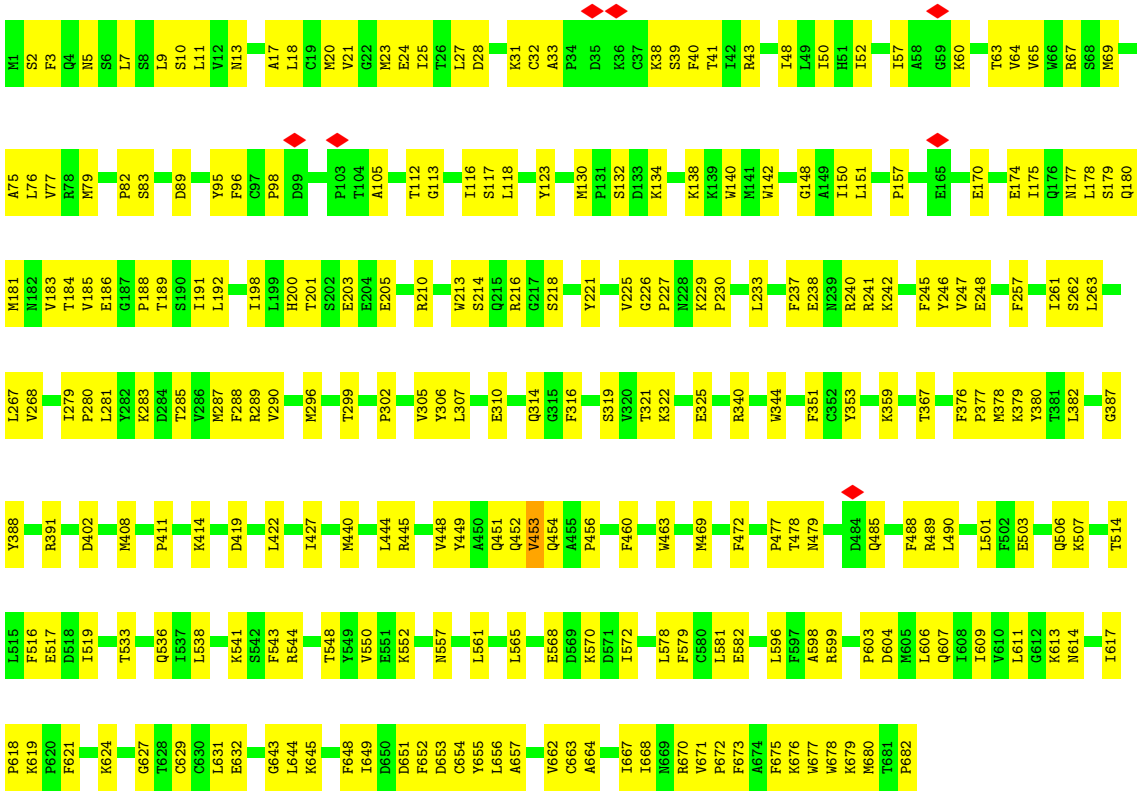
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain 11:



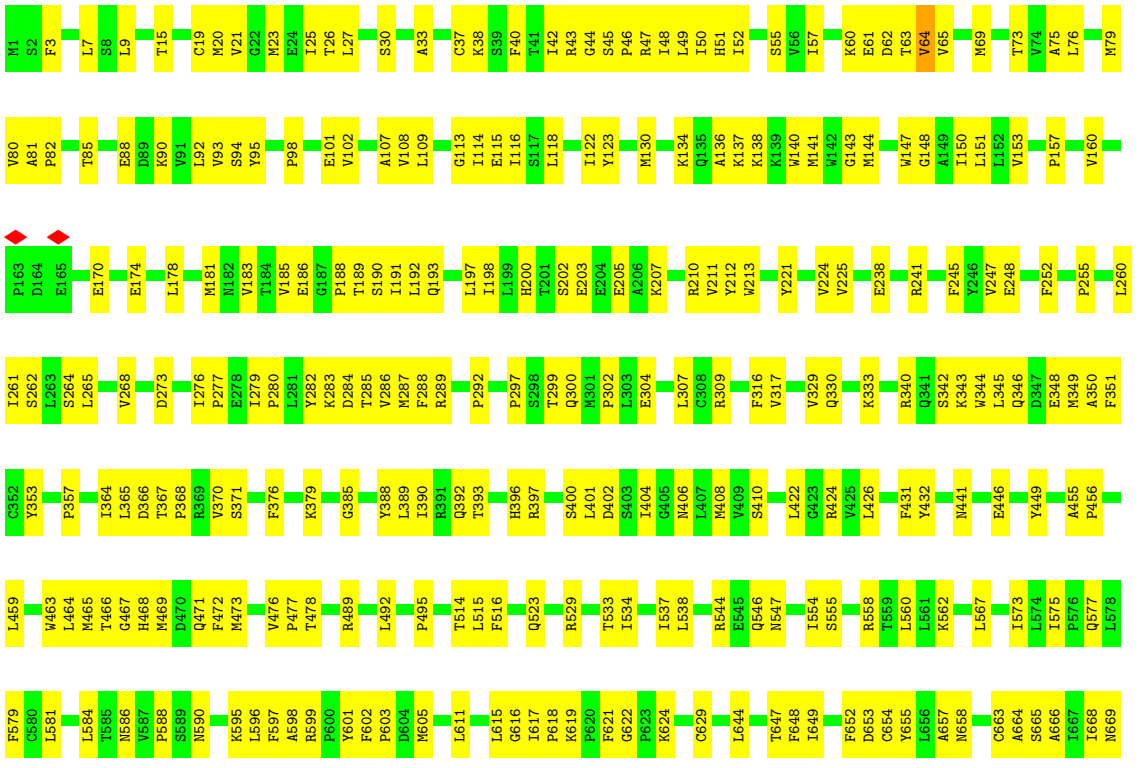
• Molecule 1: Inactive protein-arginine deiminase type-6

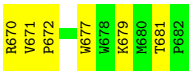
Chain 19:



• Molecule 1: Inactive protein-arginine deiminase type-6

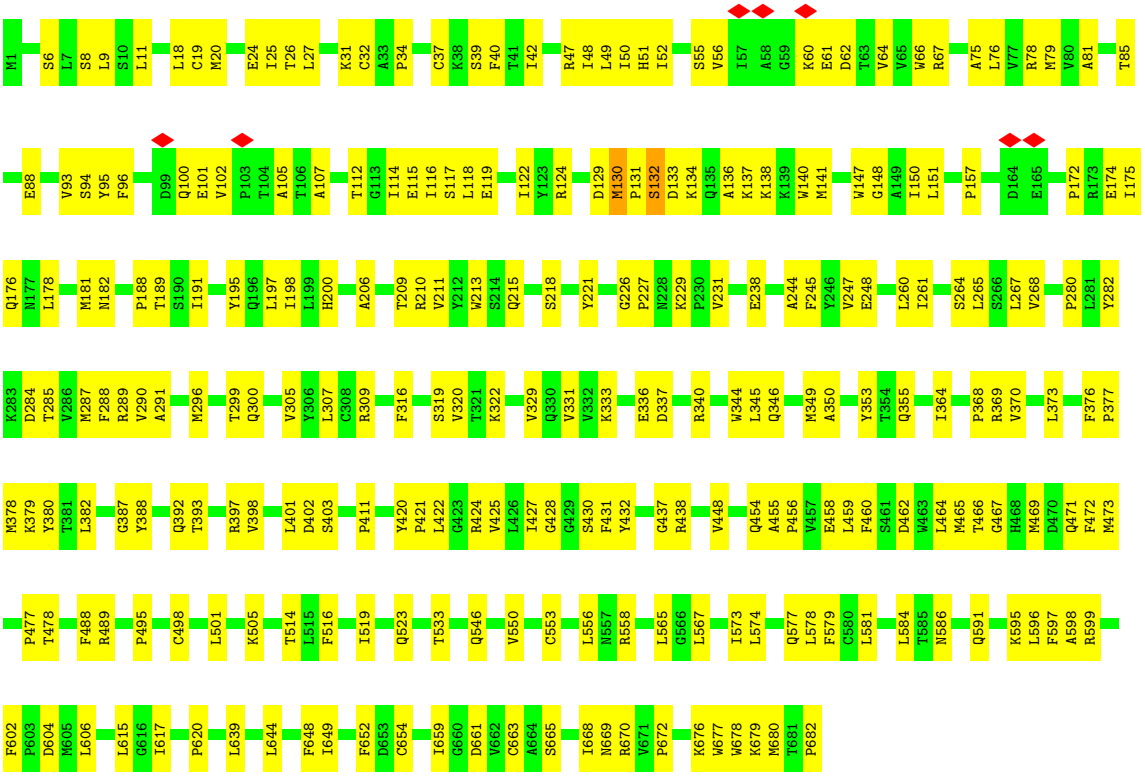
Chain 15:





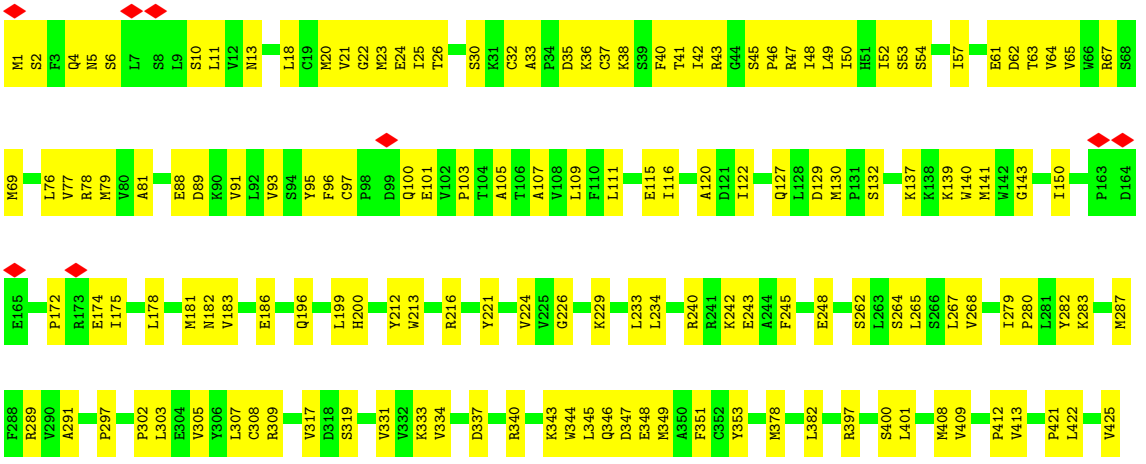
• Molecule 1: Inactive protein-arginine deiminase type-6

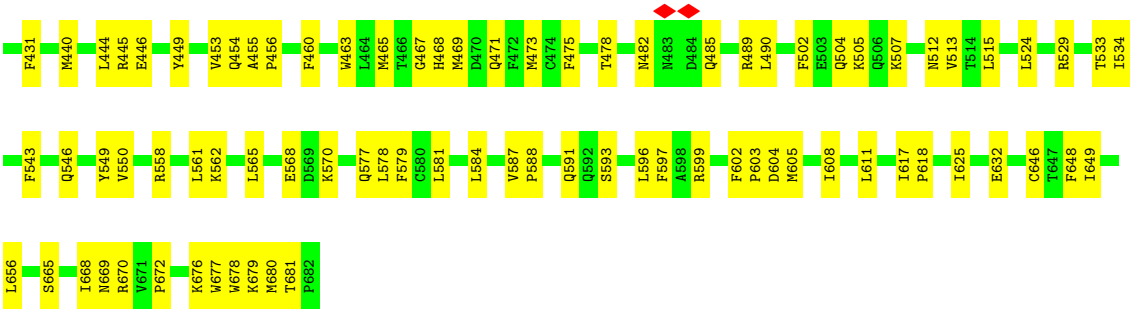
Chain 16:



• Molecule 1: Inactive protein-arginine deiminase type-6

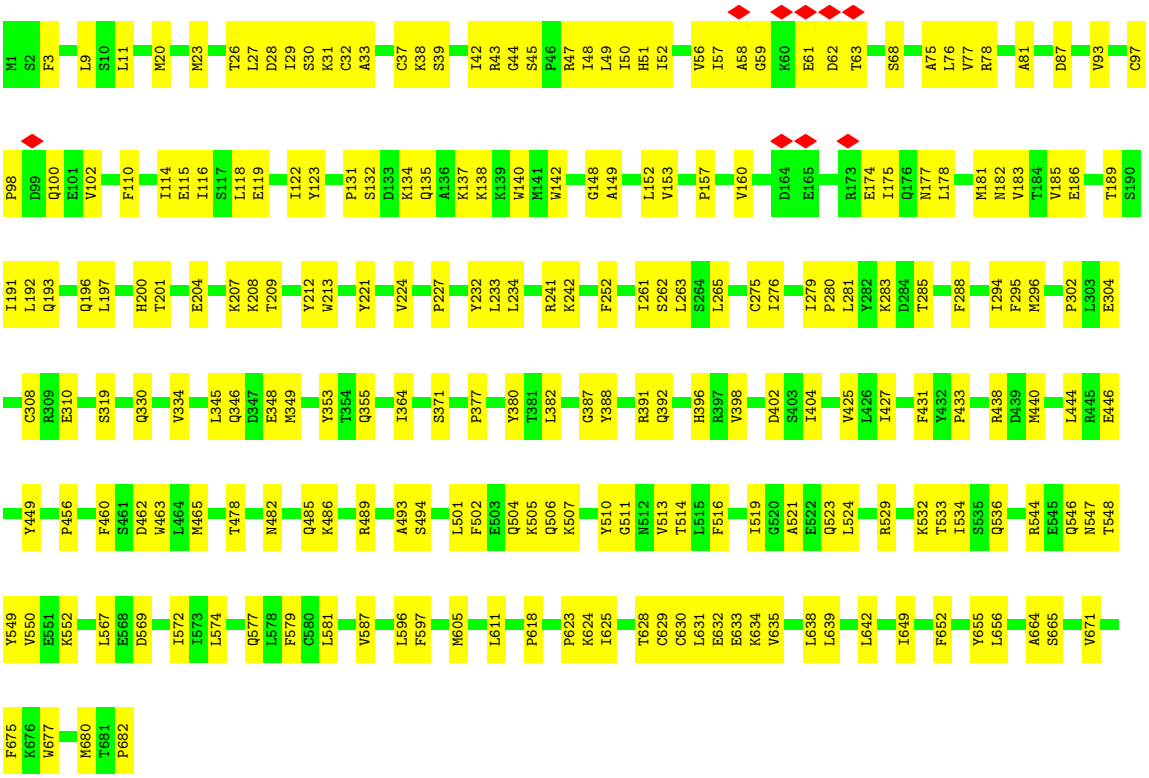
Chain 14:





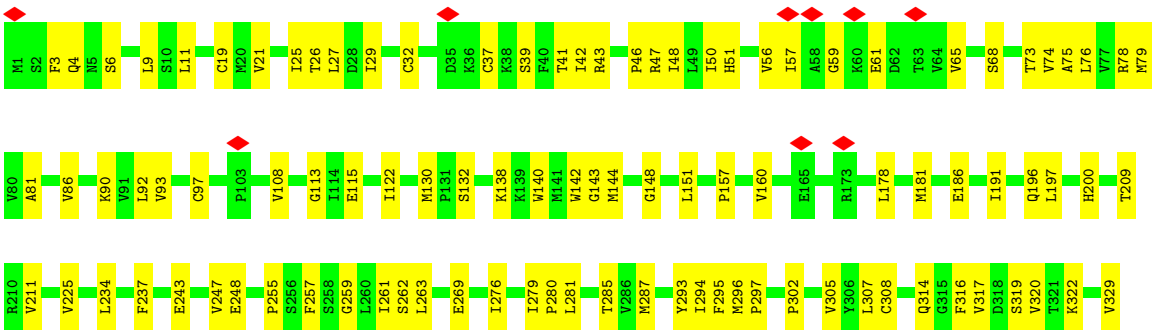
• Molecule 1: Inactive protein-arginine deiminase type-6

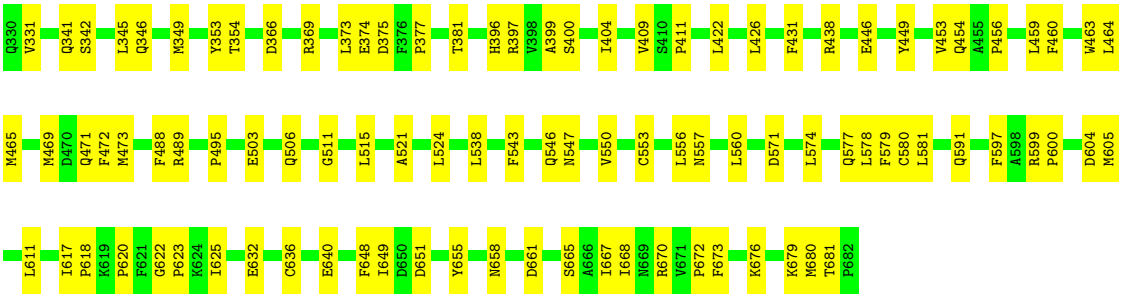
Chain 13:



• Molecule 1: Inactive protein-arginine deiminase type-6

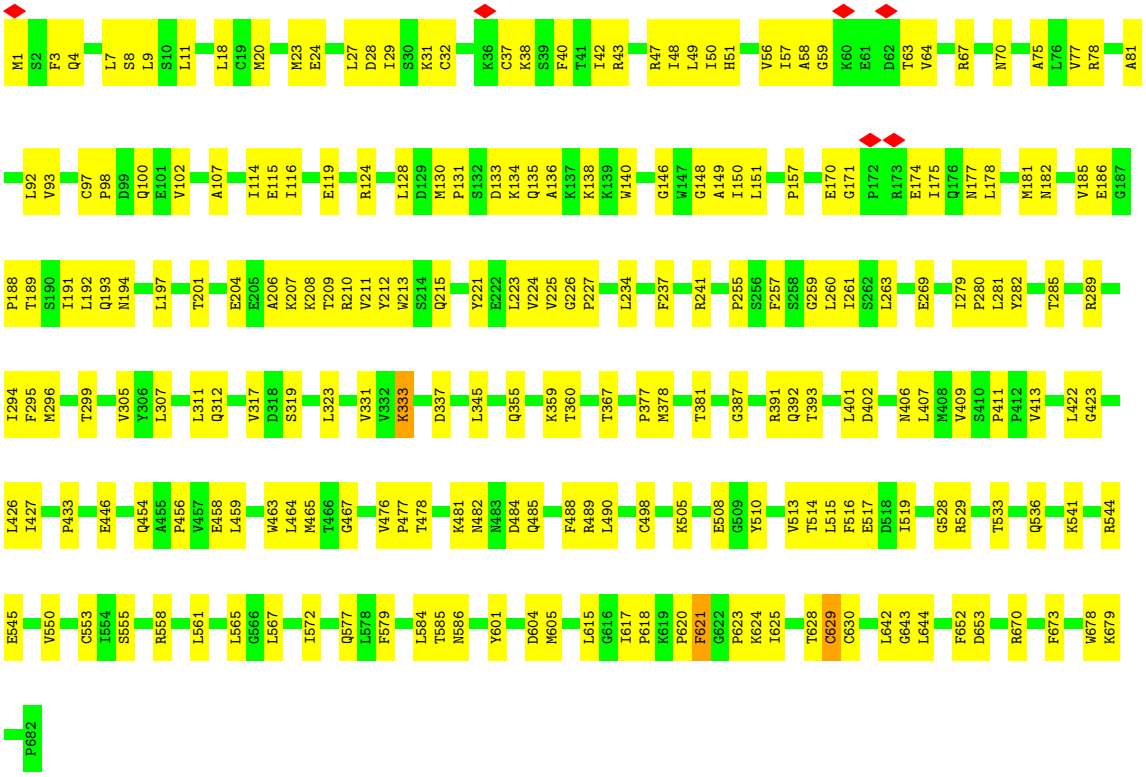
Chain 17:





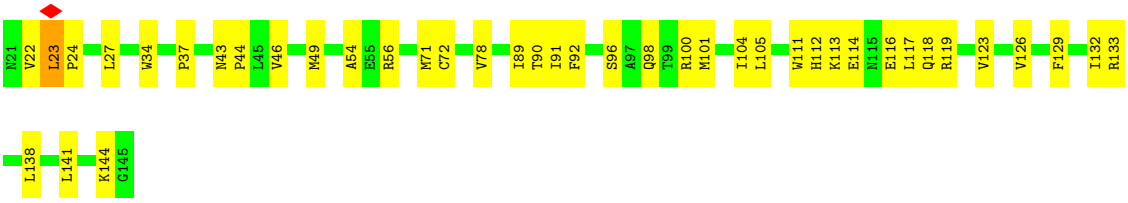
• Molecule 1: Inactive protein-arginine deiminase type-6

Chain 18:



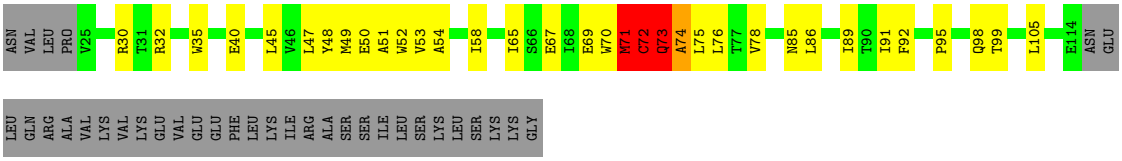
• Molecule 2: Oocyte-expressed protein homolog

Chain C:



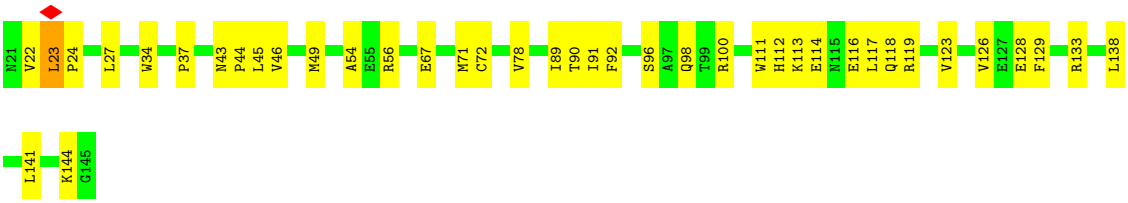
• Molecule 2: Oocyte-expressed protein homolog

Chain H:



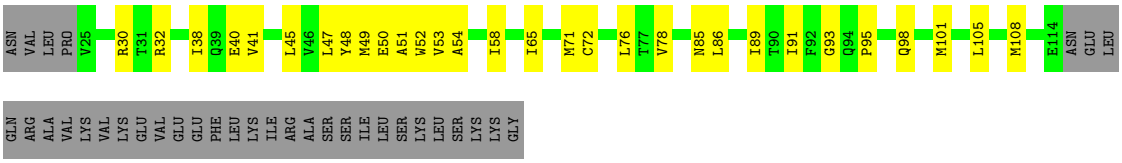
• Molecule 2: Oocyte-expressed protein homolog

Chain c:



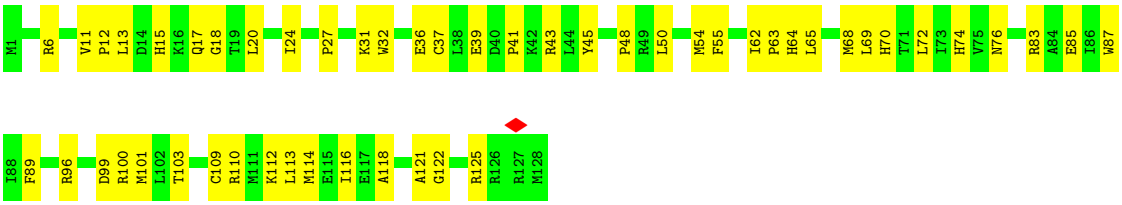
• Molecule 2: Oocyte-expressed protein homolog

Chain h:



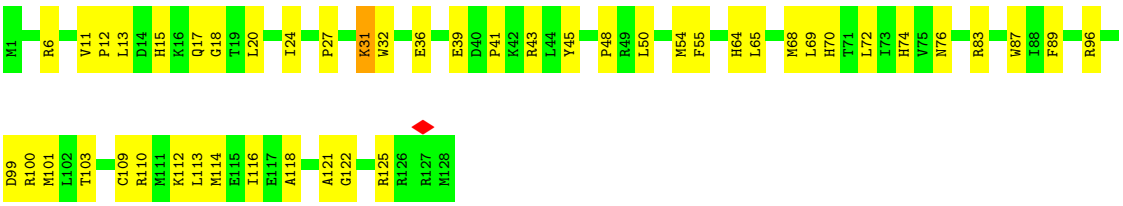
• Molecule 3: KH domain-containing protein 3

Chain D:



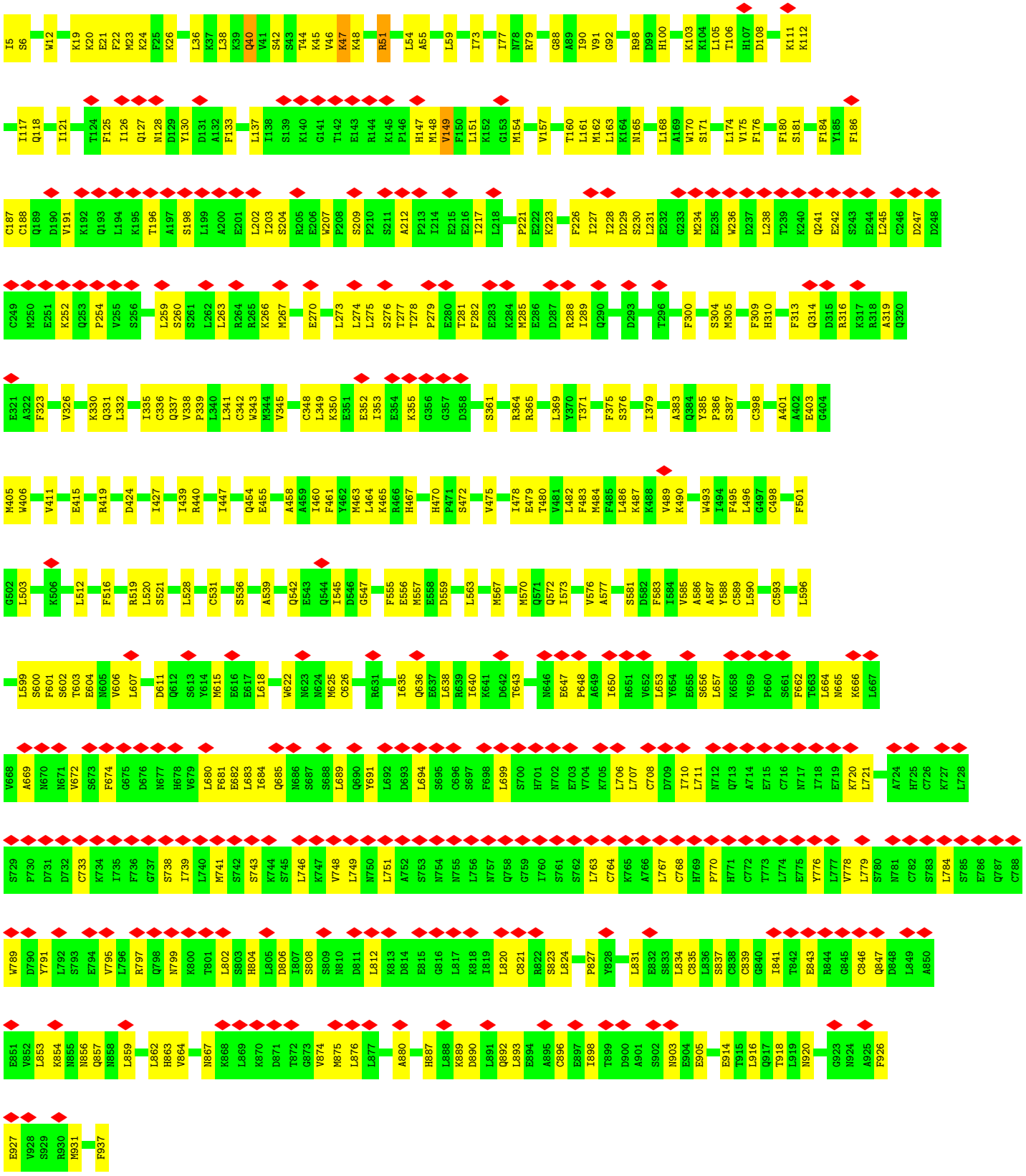
• Molecule 3: KH domain-containing protein 3

Chain d:



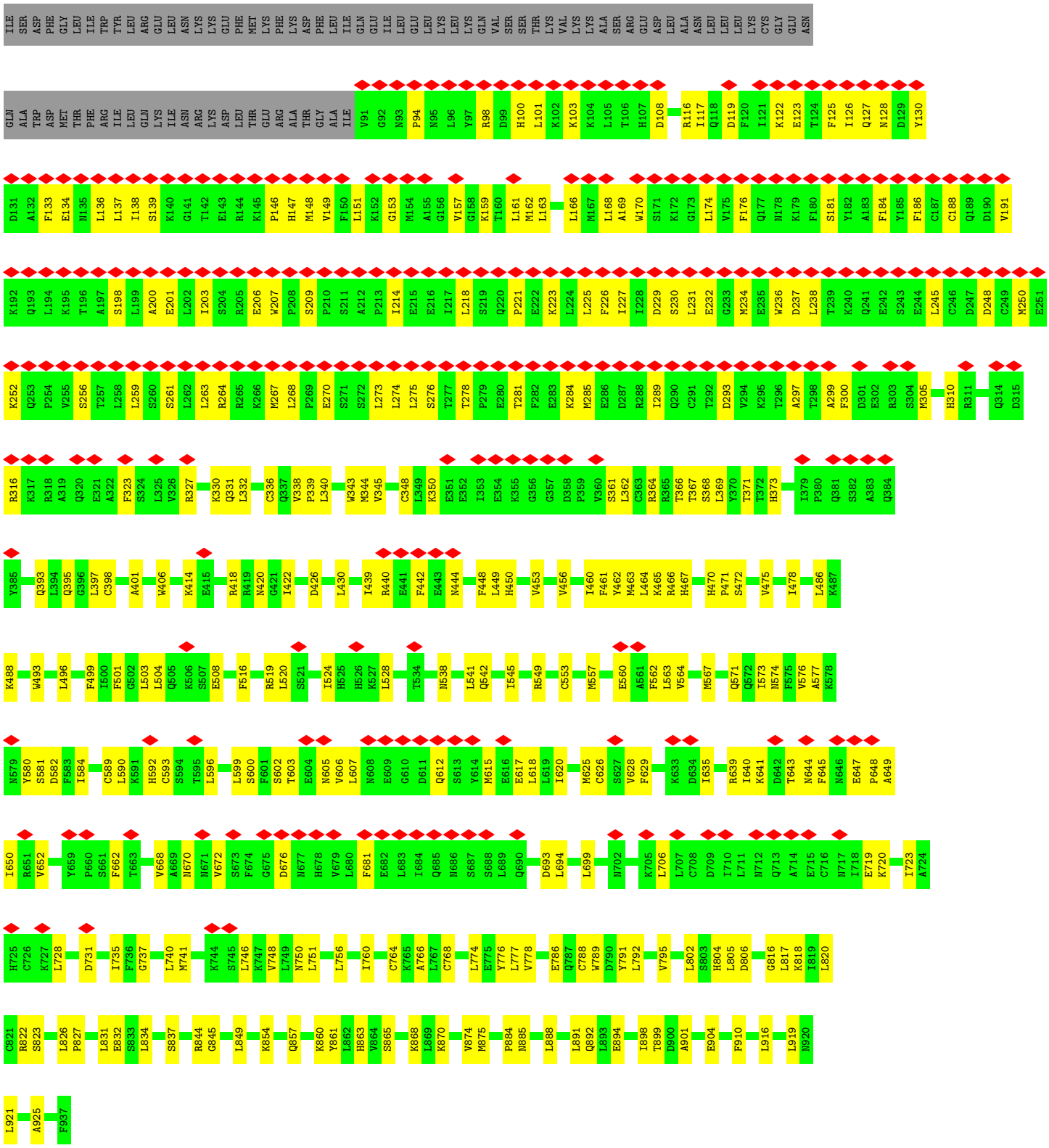
• Molecule 4: NLR family, pyrin domain containing 4F

Chain E:



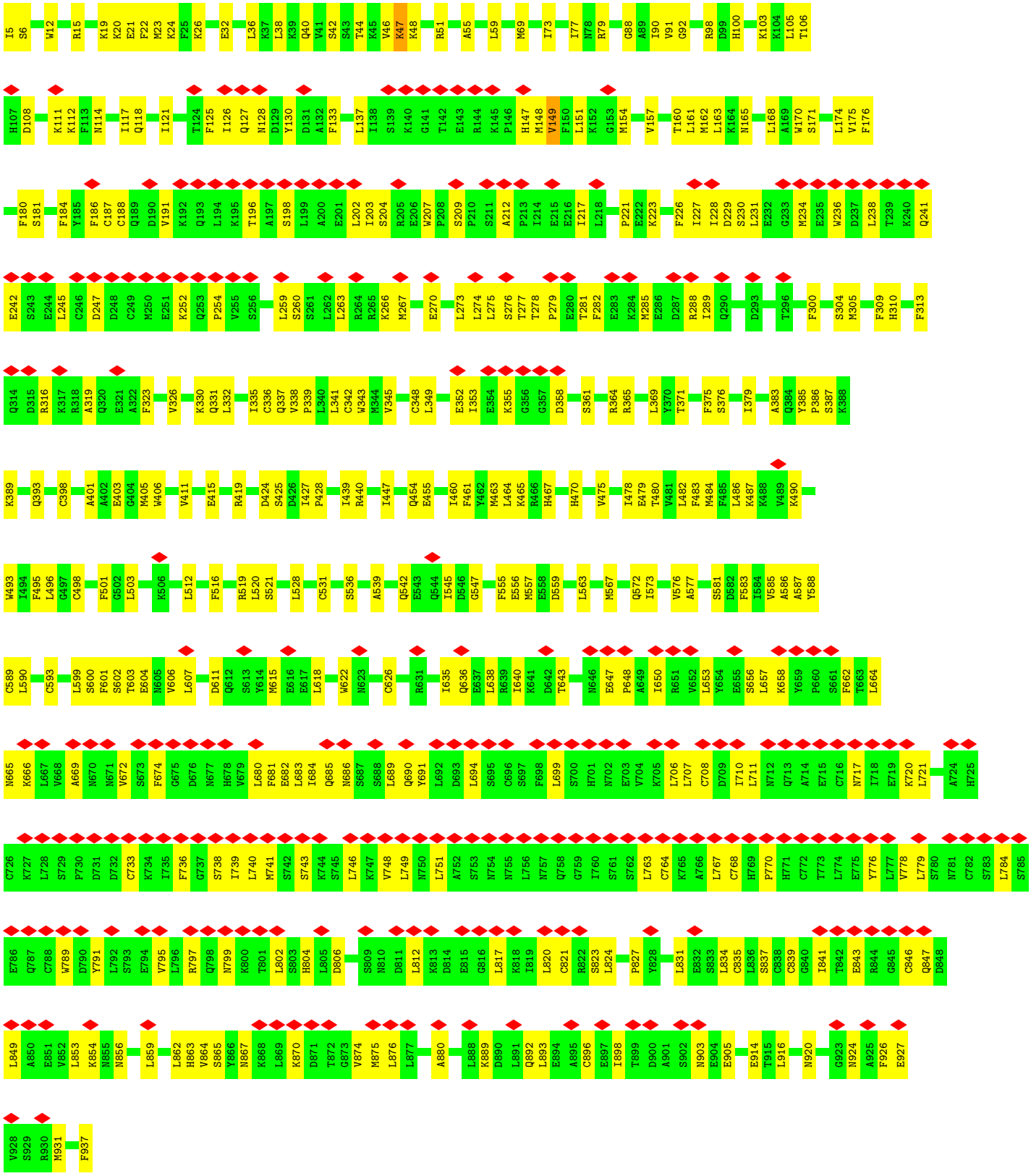
• Molecule 4: NLR family, pyrin domain containing 4F

Chain I:



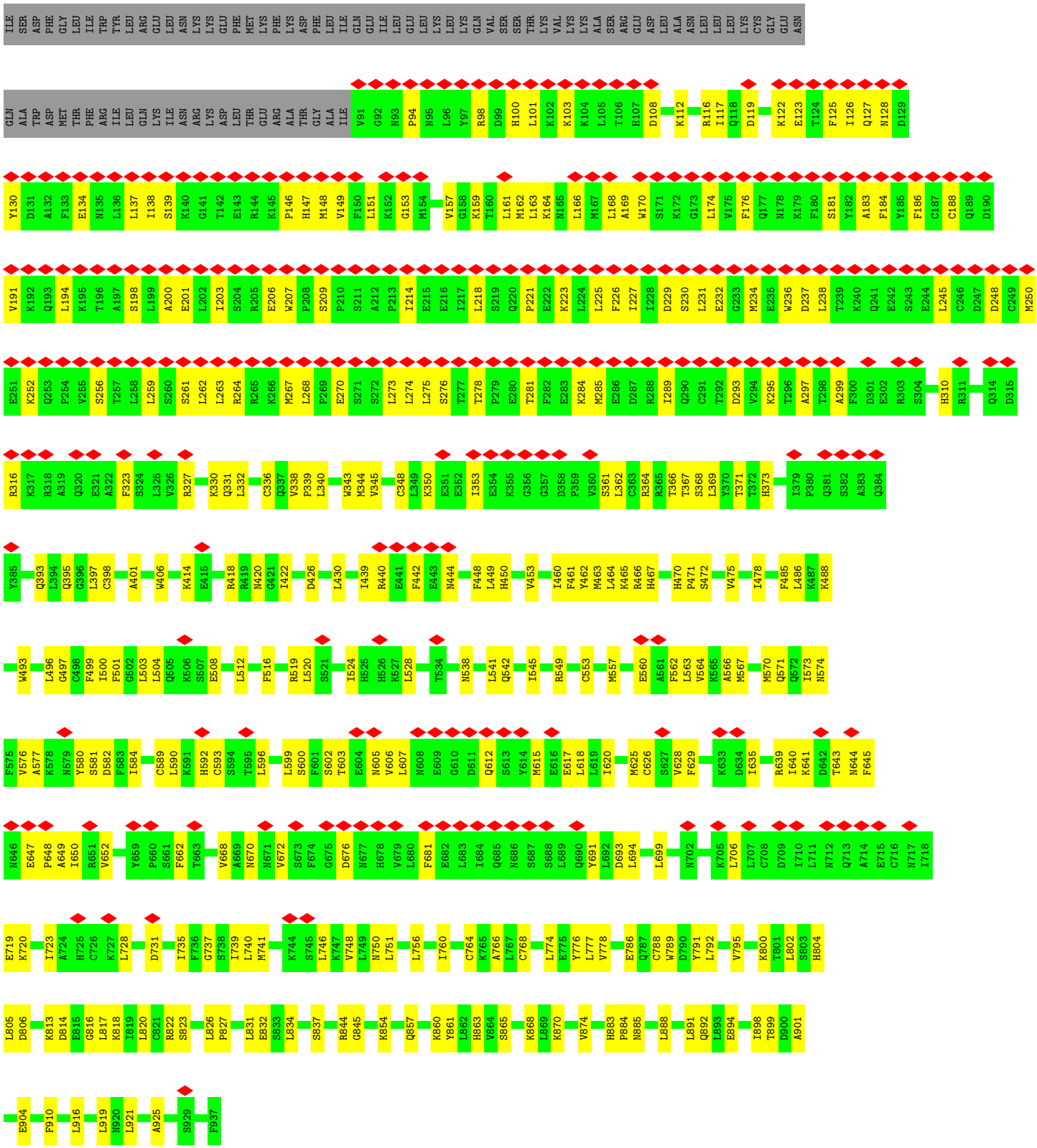
• Molecule 4: NLR family, pyrin domain containing 4F

Chain e:



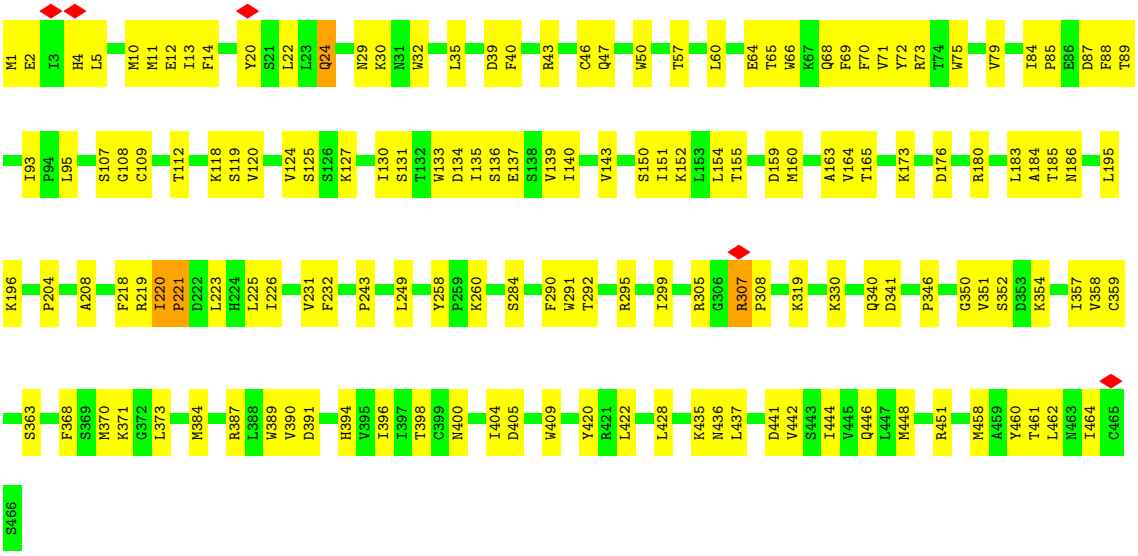
• Molecule 4: NLR family, pyrin domain containing 4F

Chain i:

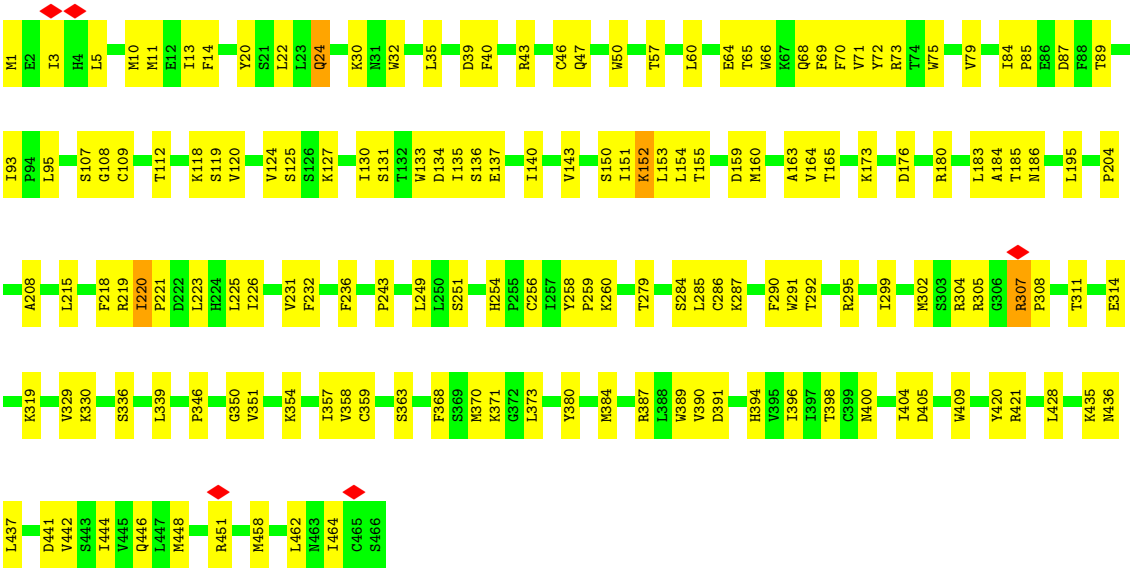


• Molecule 5: FBXW24

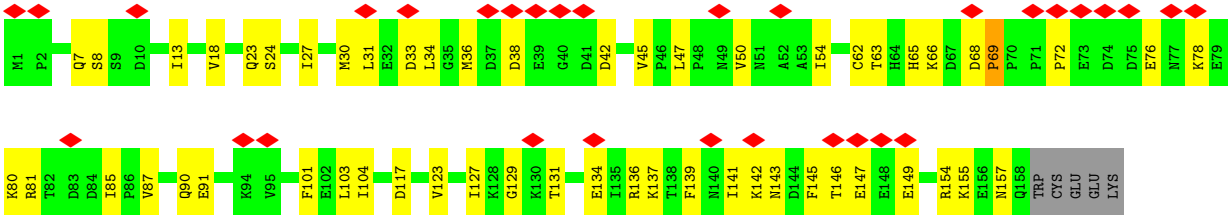
Chain J:



• Molecule 5: FBXW24

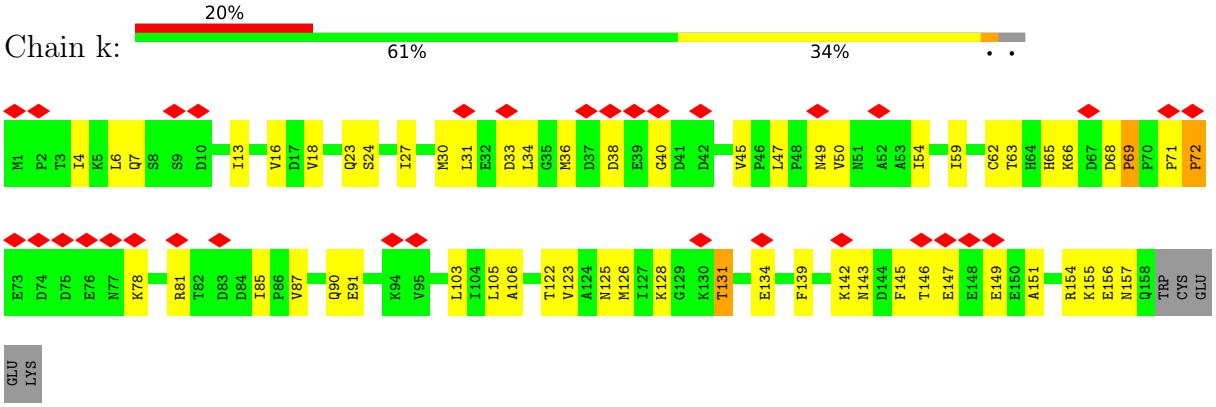


• Molecule 6: S-phase kinase-associated protein 1



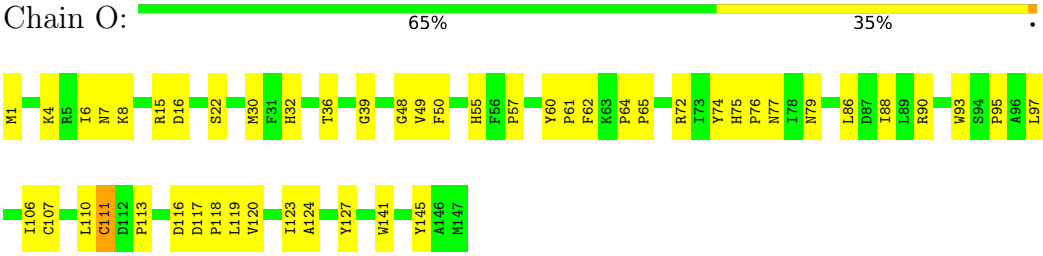
• Molecule 6: S-phase kinase-associated protein 1

Chain k:



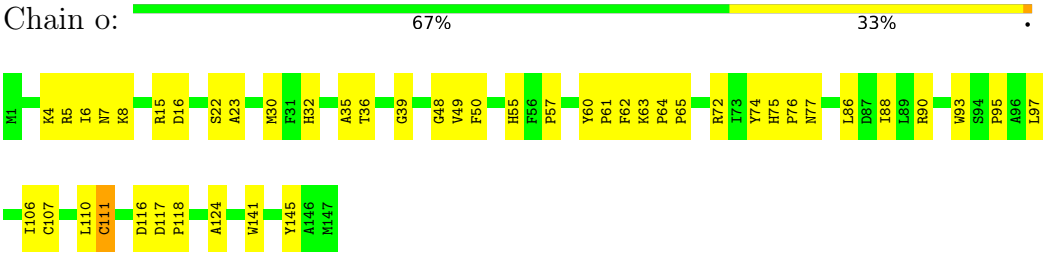
• Molecule 7: Ubiquitin-conjugating enzyme E2 D3

Chain O:



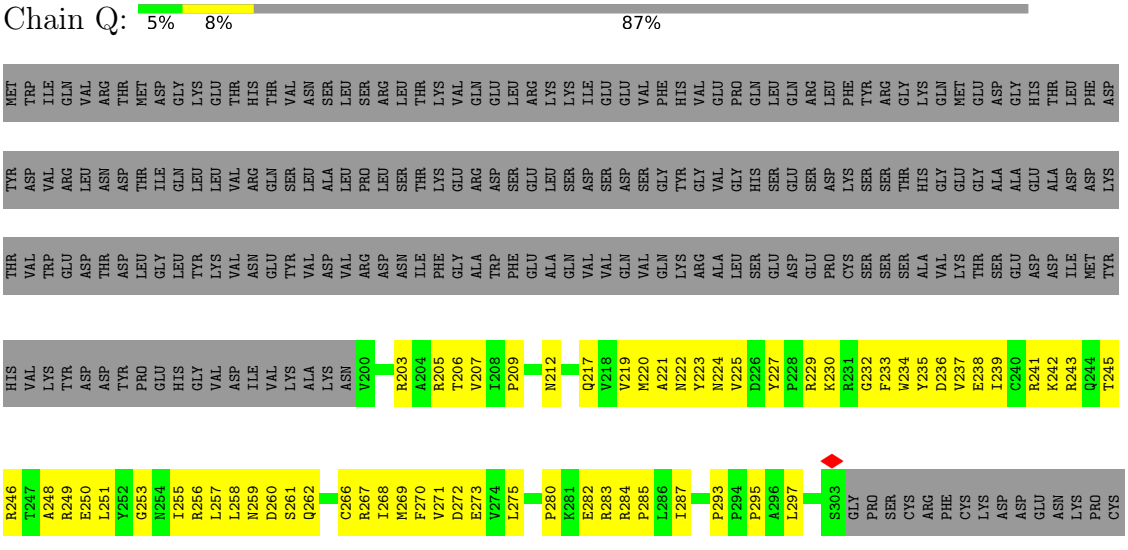
• Molecule 7: Ubiquitin-conjugating enzyme E2 D3

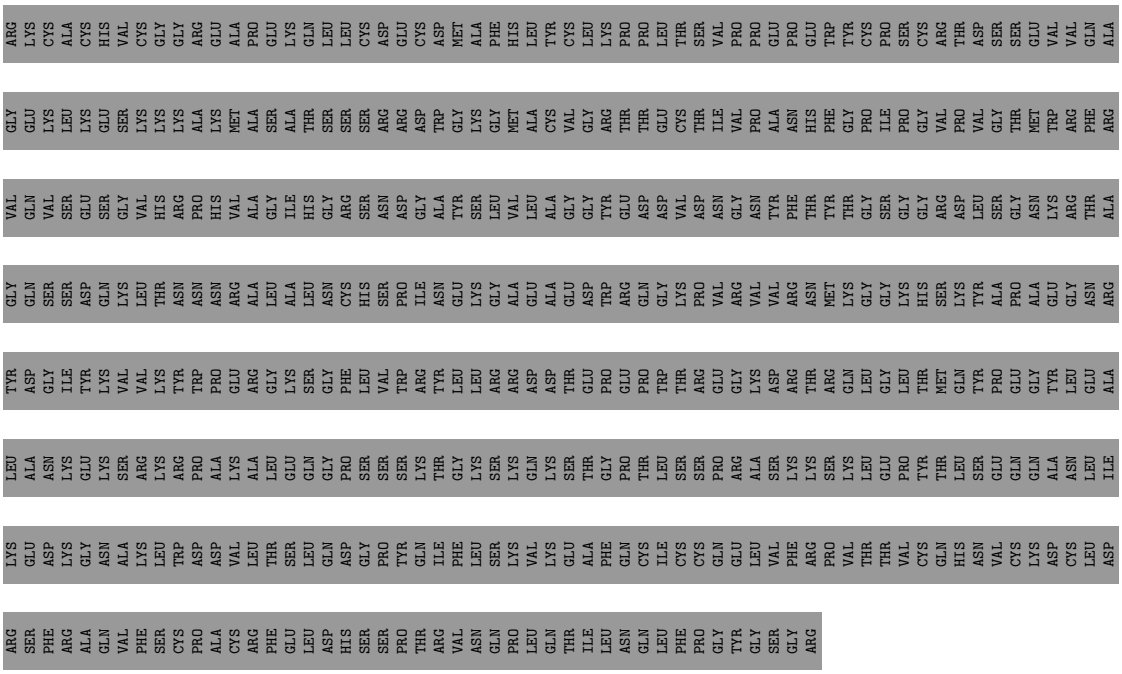
Chain o:



• Molecule 8: E3 ubiquitin-protein ligase UHRF1

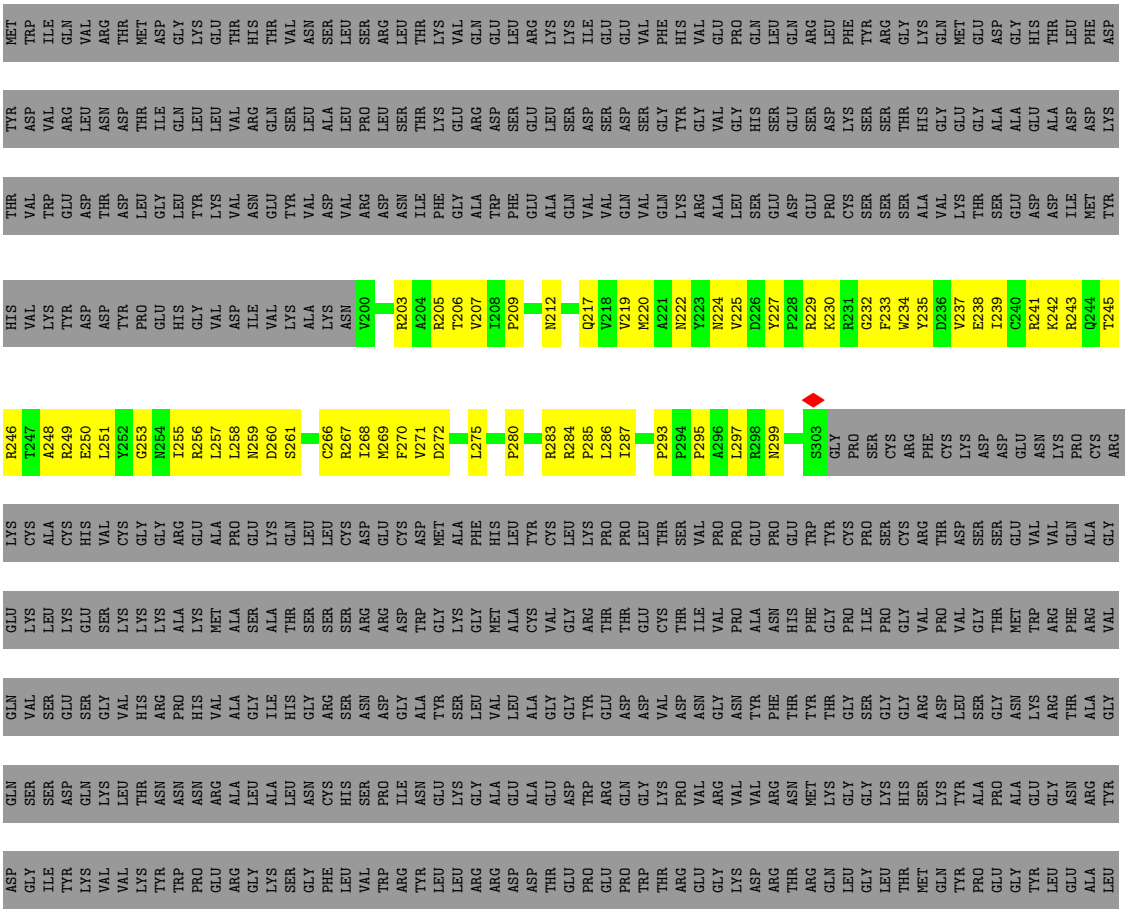
Chain Q:

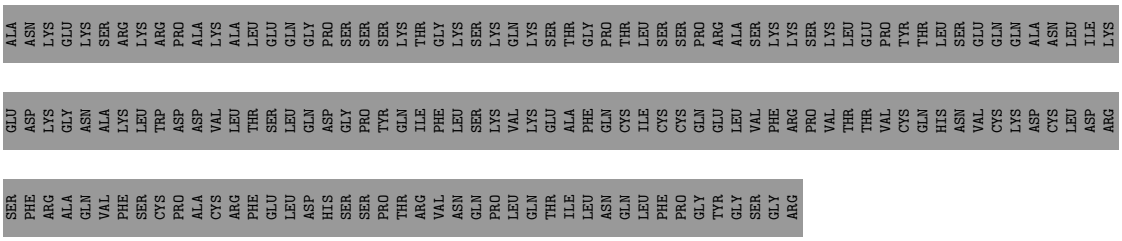




• Molecule 8: E3 ubiquitin-protein ligase UHRF1

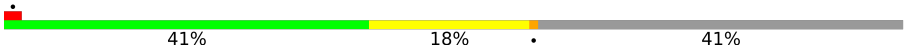
Chain q: 6% 7% 87%

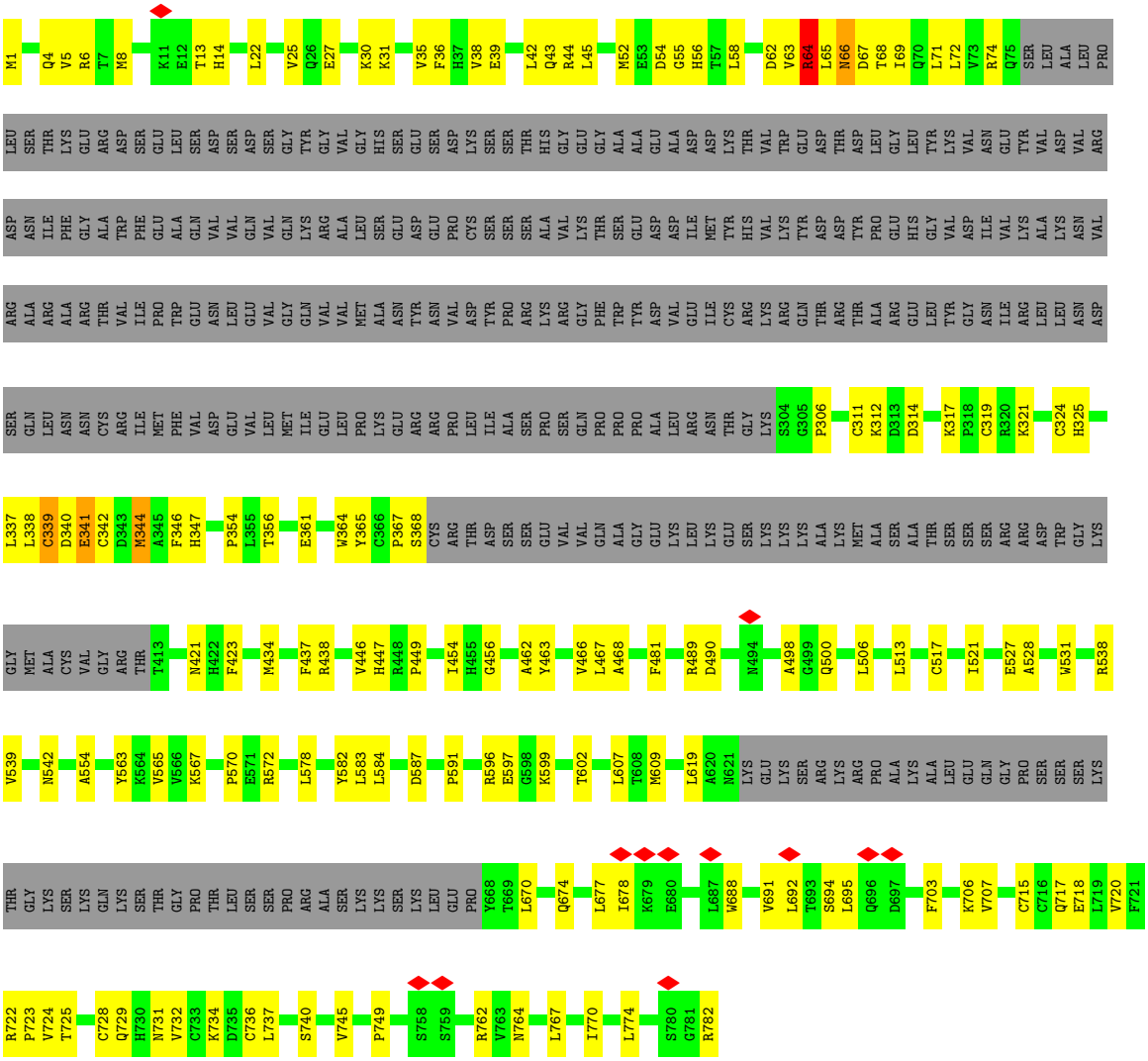




• Molecule 8: E3 ubiquitin-protein ligase UHRF1

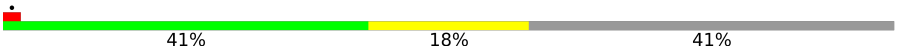
Chain P:

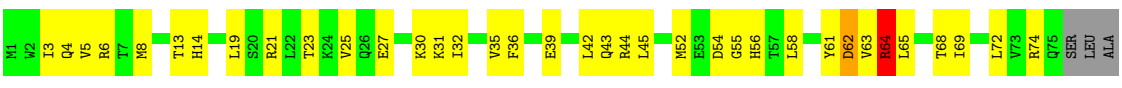


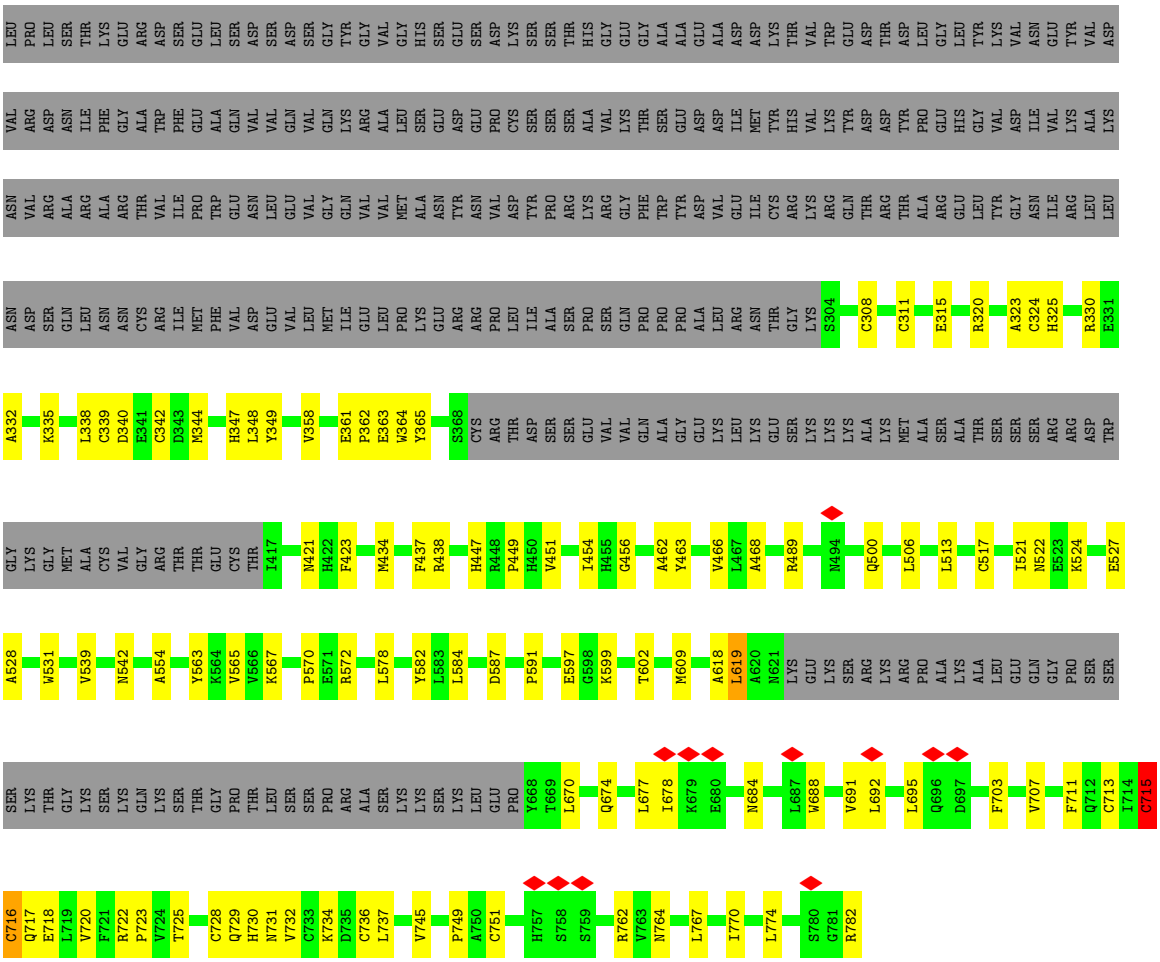


• Molecule 8: E3 ubiquitin-protein ligase UHRF1

Chain p:







• Molecule 9: Zinc finger BED domain-containing protein 3

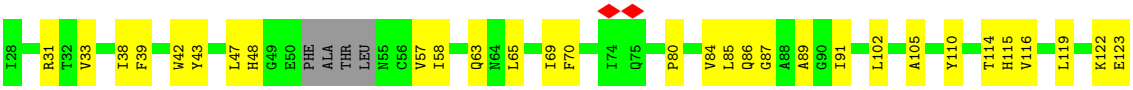
Chain R:

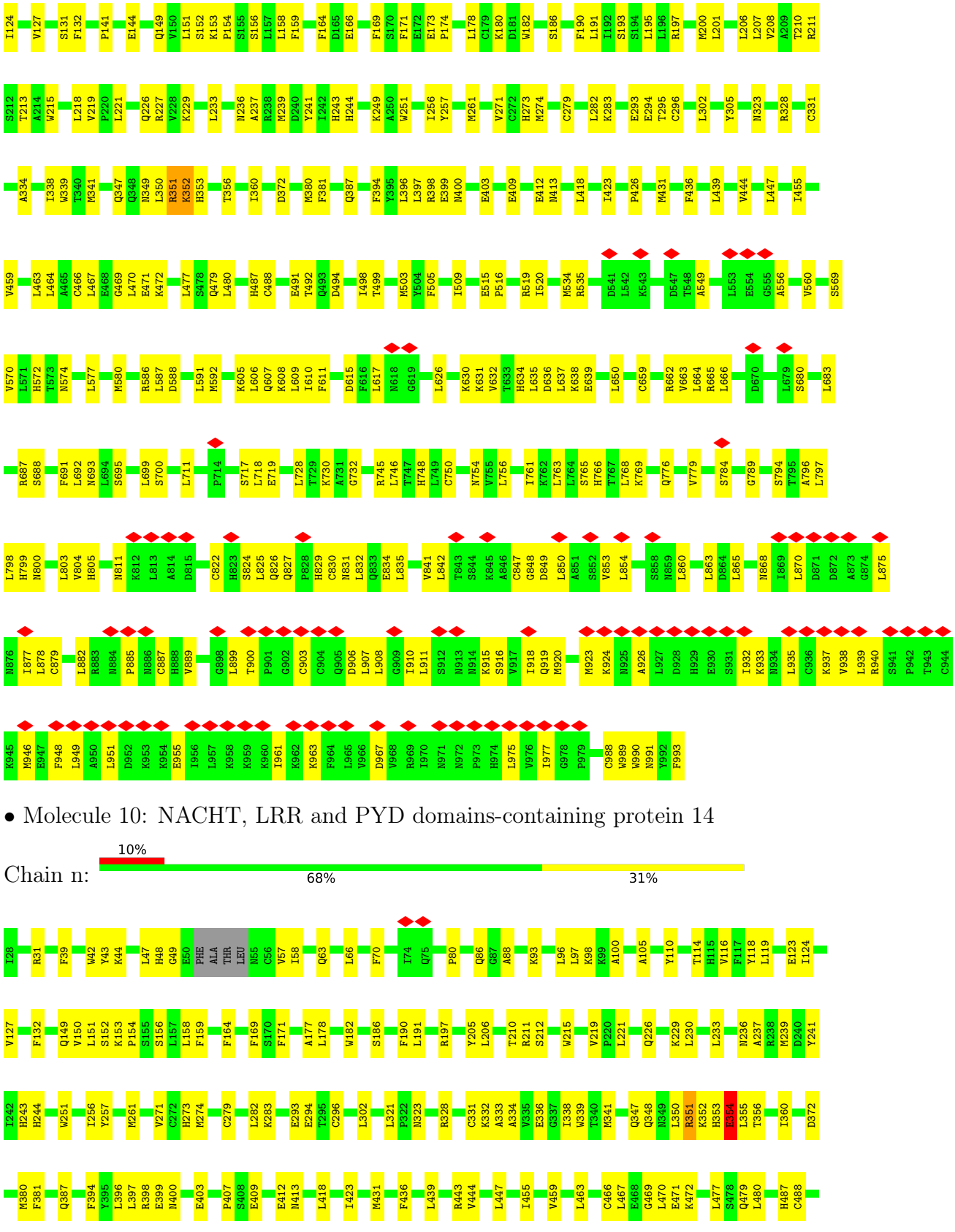
• Molecule 9: Zinc finger BED domain-containing protein 3

Chain r:

• Molecule 10: NACHT, LRR and PYD domains-containing protein 14

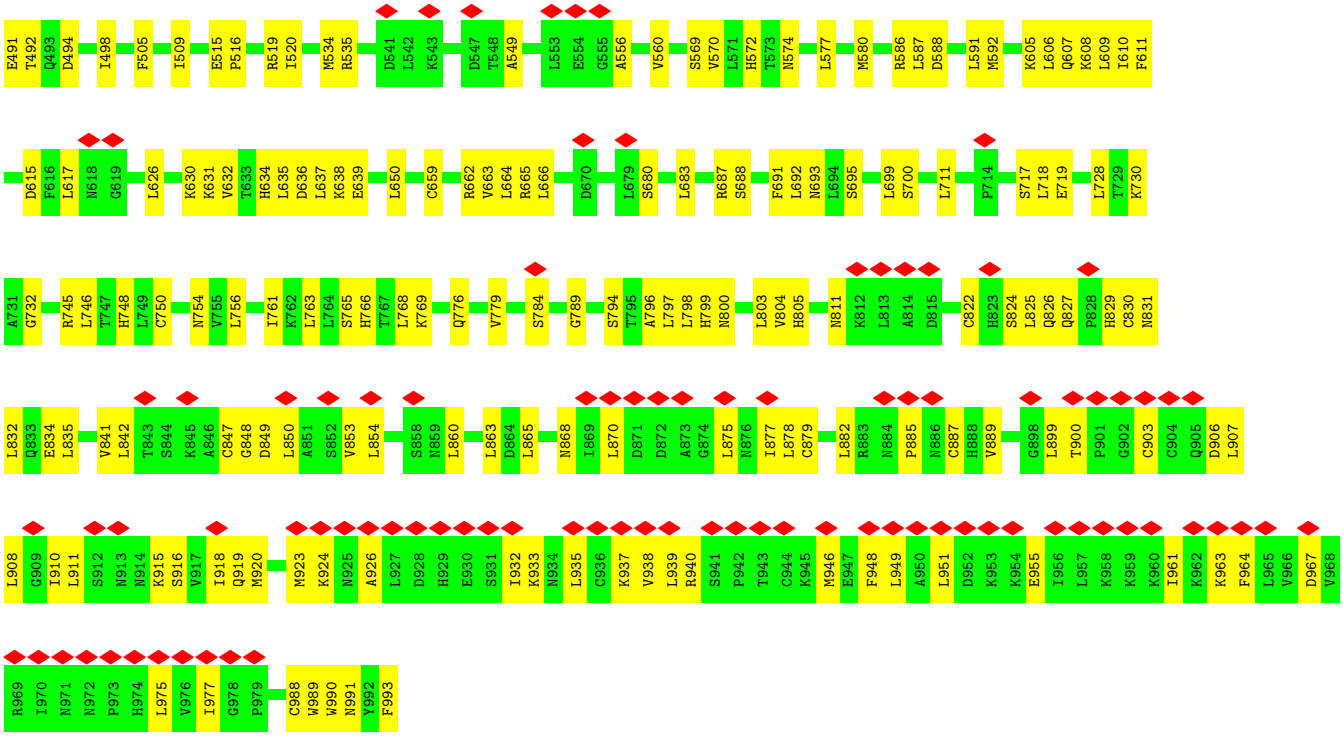
Chain N:





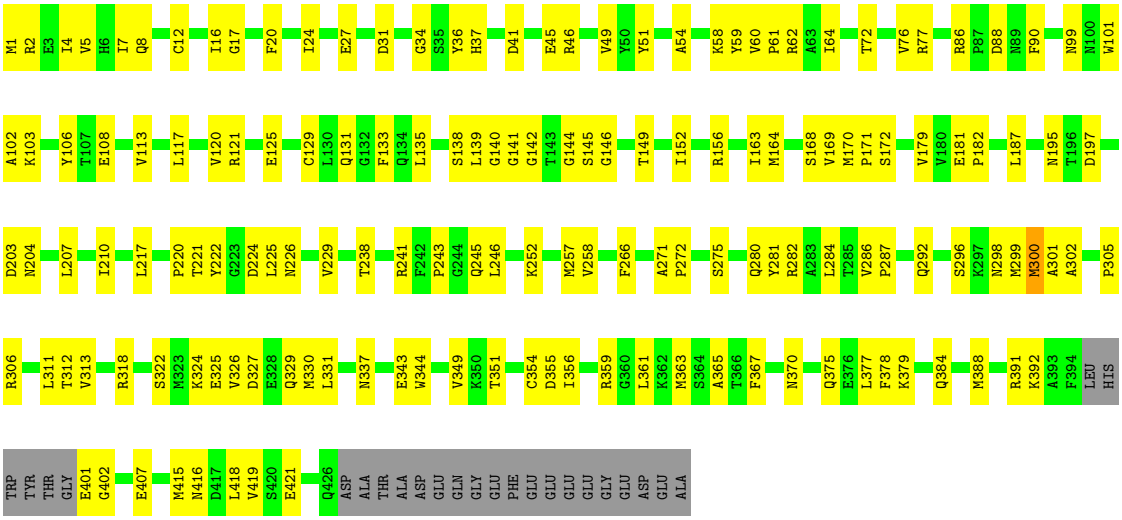
• Molecule 10: NACHT, LRR and PYD domains-containing protein 14

Chain n:



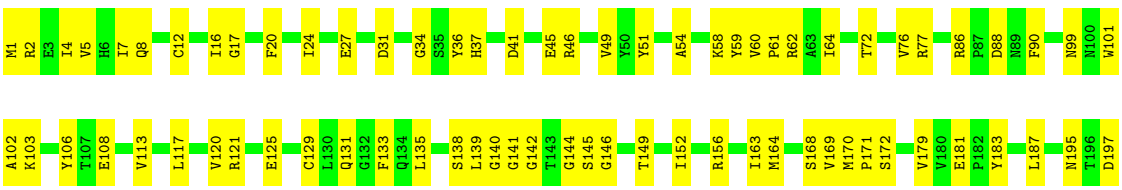
• Molecule 11: Tubulin beta-2A chain

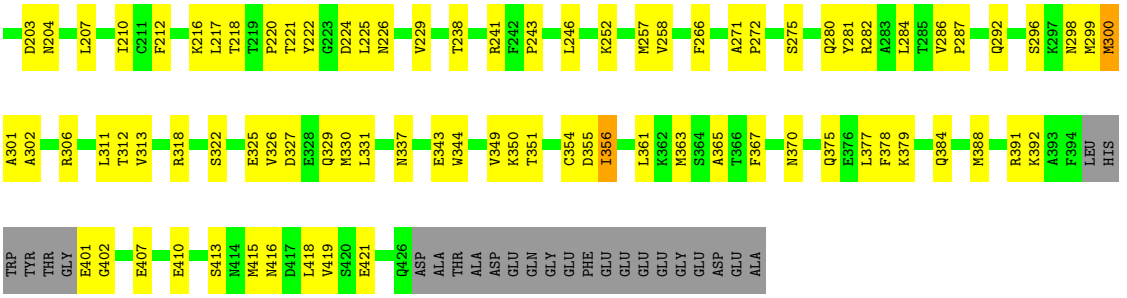
Chain L:



• Molecule 11: Tubulin beta-2A chain

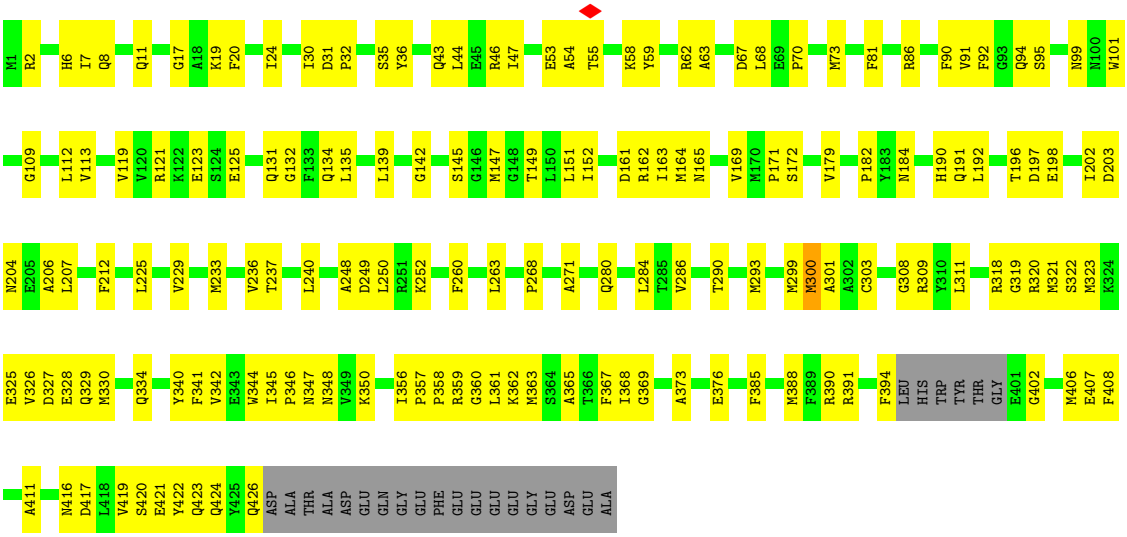
Chain l:





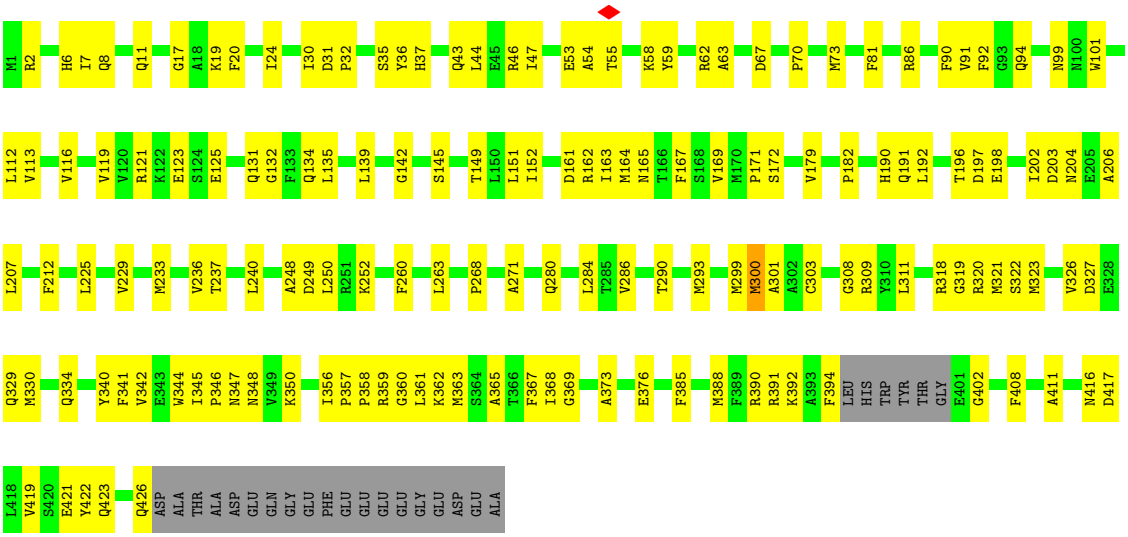
• Molecule 12: Tubulin beta-2B chain

Chain M:



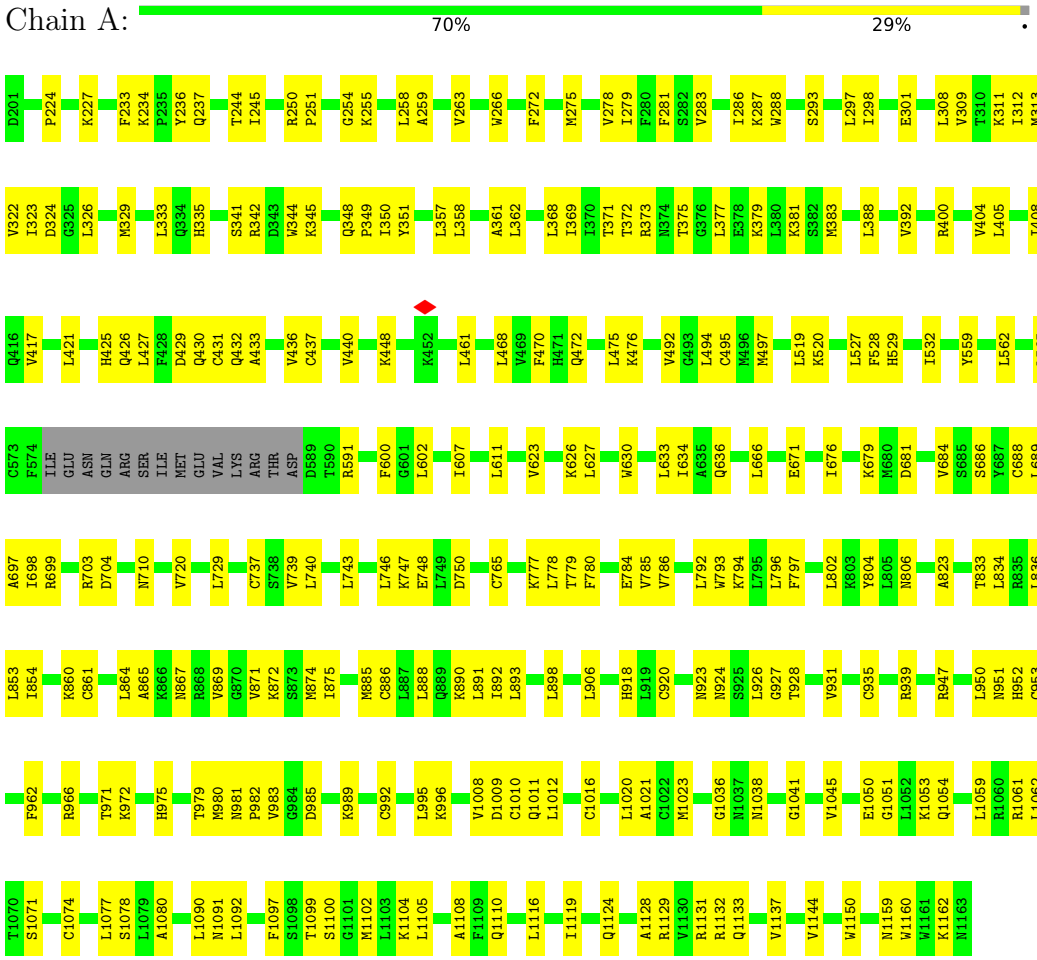
• Molecule 12: Tubulin beta-2B chain

Chain m:



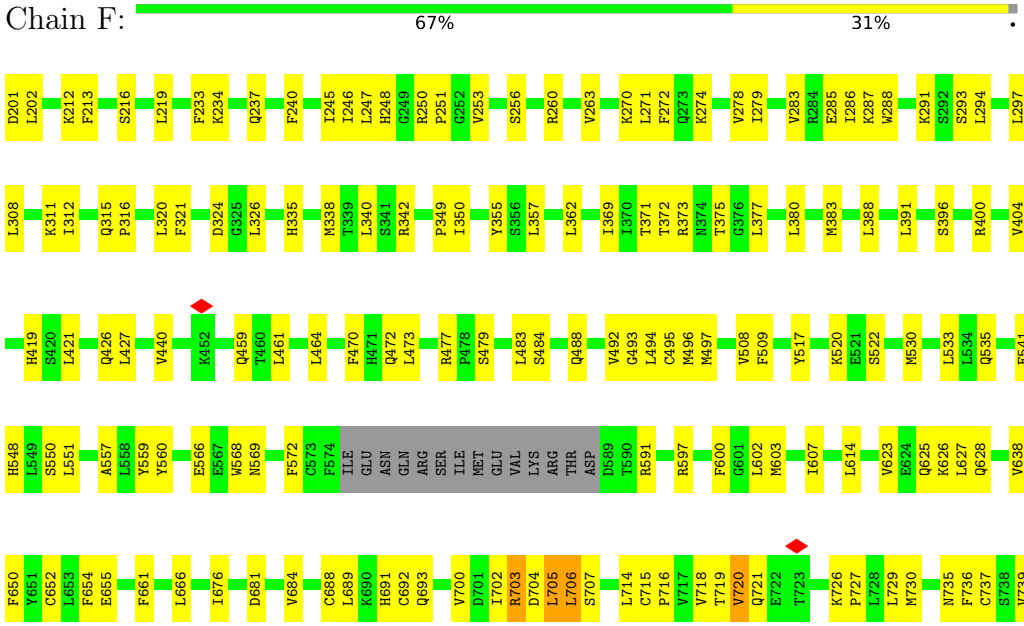
• Molecule 13: Isoform 4 of NACHT, LRR and PYD domains-containing protein 5

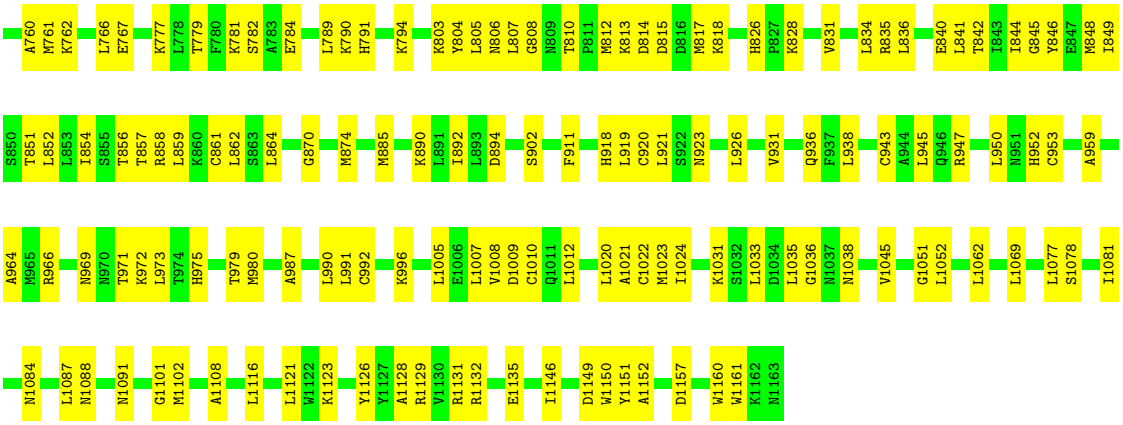
Chain A:



• Molecule 13: Isoform 4 of NACHT, LRR and PYD domains-containing protein 5

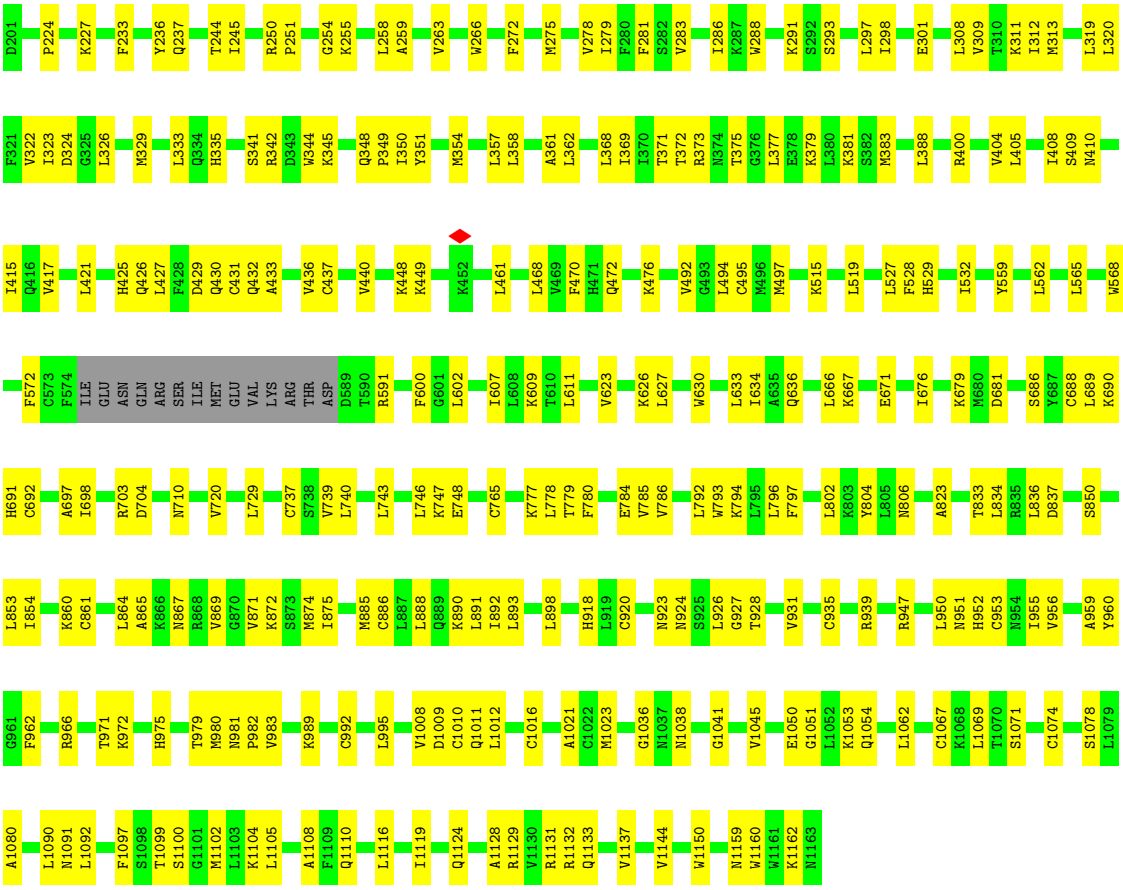
Chain F:





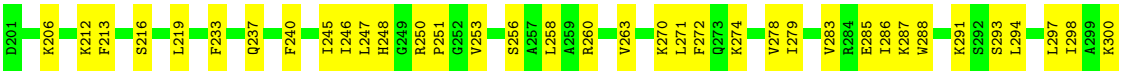
• Molecule 13: Isoform 4 of NACHT, LRR and PYD domains-containing protein 5

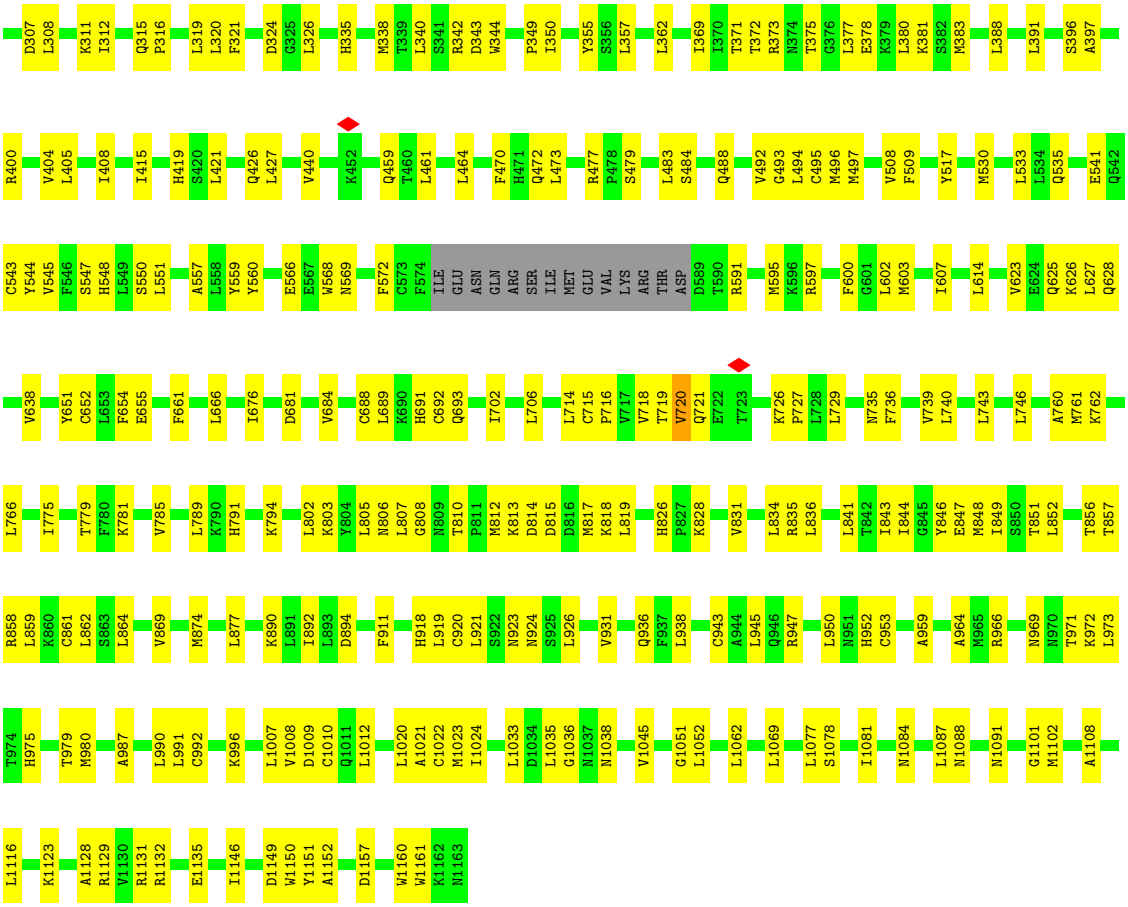
Chain a:



• Molecule 13: Isoform 4 of NACHT, LRR and PYD domains-containing protein 5

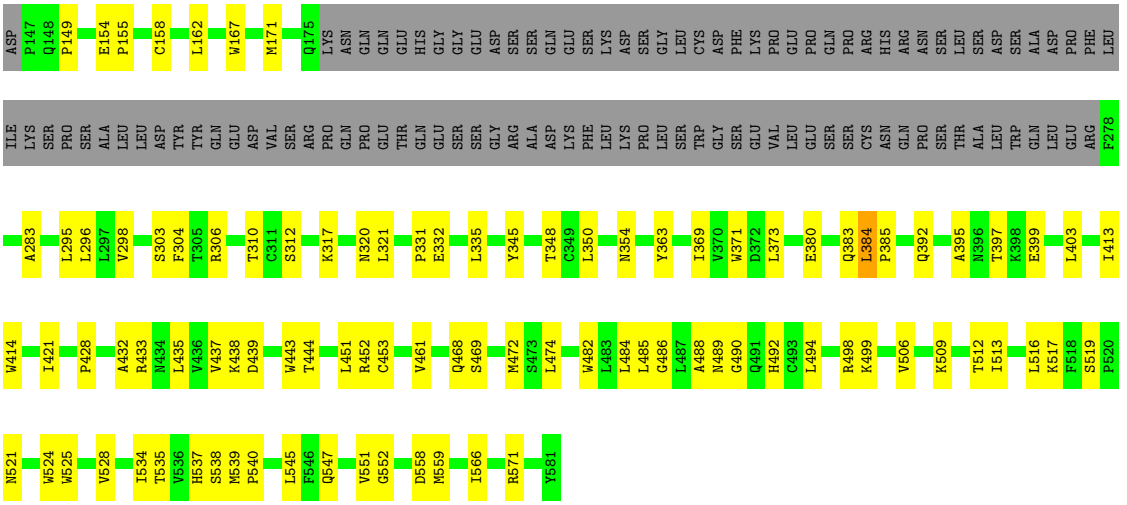
Chain f:





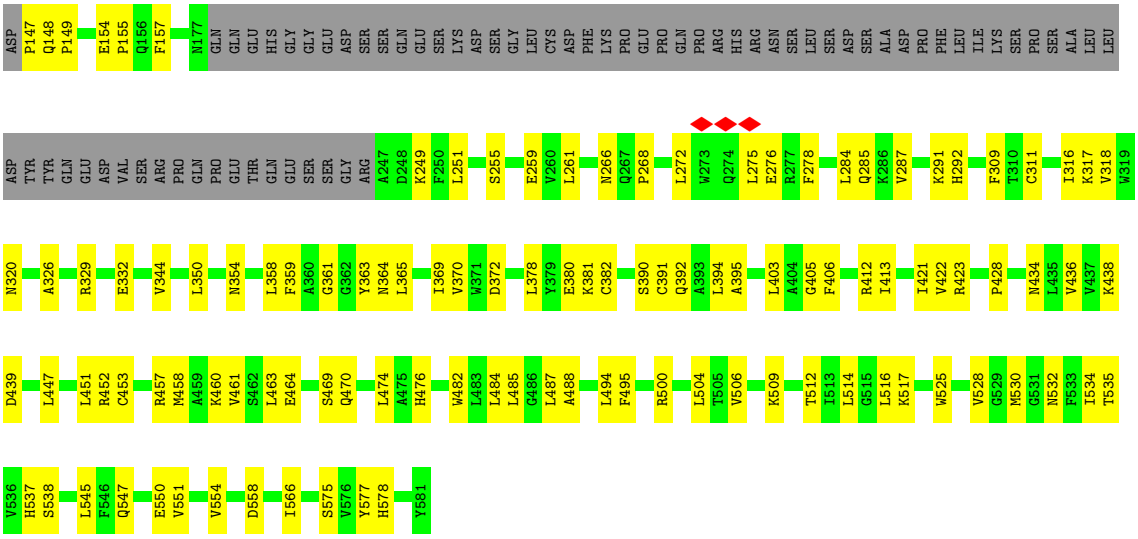
• Molecule 14: Transducin-like enhancer protein 6

Chain B:



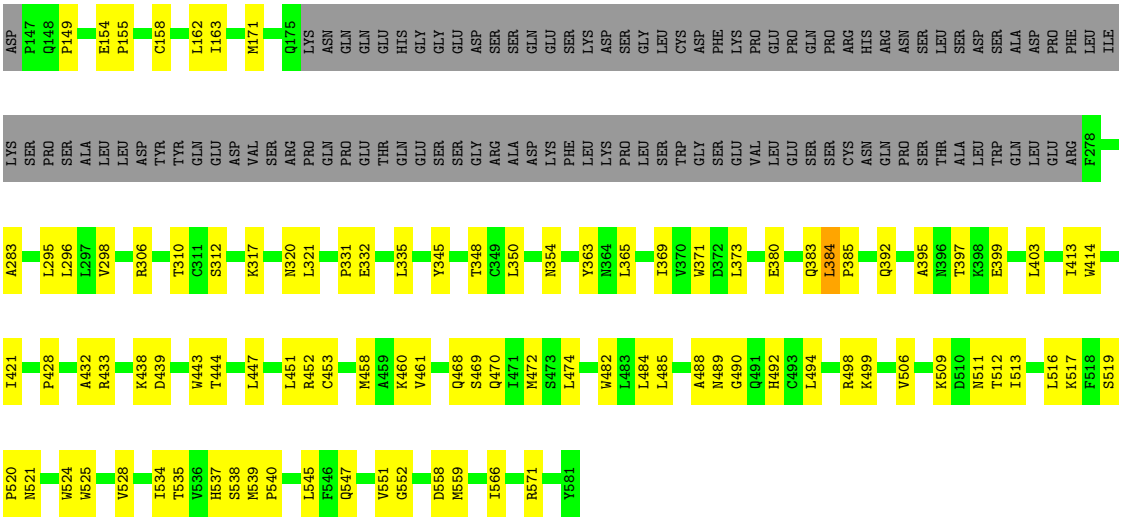
• Molecule 14: Transducin-like enhancer protein 6

Chain G:



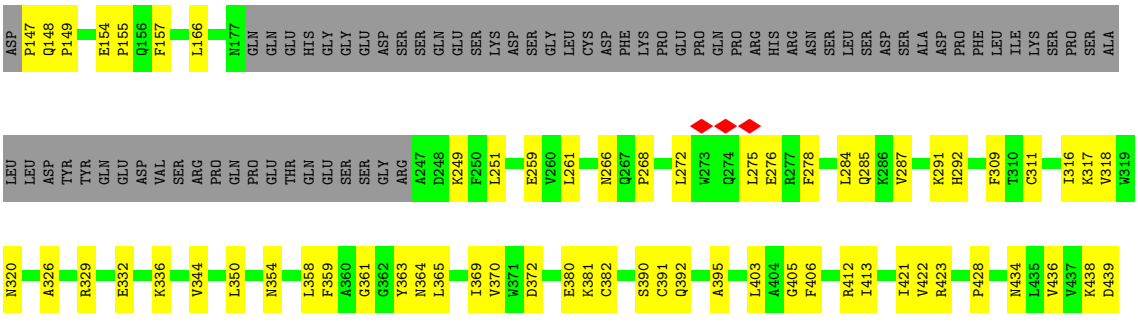
• Molecule 14: Transducin-like enhancer protein 6

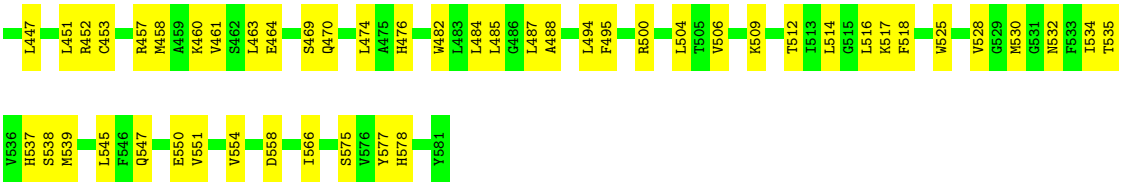
Chain b:



• Molecule 14: Transducin-like enhancer protein 6

Chain g:




L447
L451
R452
C453
R457
M458
A459
K460
V461
S462
L463
E464
S469
Q470
L474
A475
H476
W482
L483
L484
L485
G486
L487
A488
L494
F495
R500
L504
T505
V506
K509
T512
I513
L514
G515
L516
K517
F518
W525
V528
G529
M530
G531
N532
F533
I534
T535
V536
H537
S538
M539
L545
F546
Q547
E550
V551
V554
D558
I566
S575
V576
Y577
H578
Y581

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	676923	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	1.057	Depositor
Minimum map value	-0.503	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.024	Depositor
Recommended contour level	0.085	Depositor
Map size (Å)	689.472, 689.472, 689.472	wwPDB
Map dimensions	640, 640, 640	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.0773, 1.0773, 1.0773	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

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	1	0.19	0/5508	0.41	1/7470 (0.0%)
1	11	0.19	0/5508	0.40	1/7470 (0.0%)
1	12	0.18	0/5511	0.35	0/7475
1	13	0.13	0/5511	0.32	0/7475
1	14	0.12	0/5511	0.32	0/7475
1	15	0.14	0/5511	0.34	0/7475
1	16	0.13	0/5511	0.34	0/7475
1	17	0.18	0/5511	0.37	0/7475
1	18	0.25	0/5511	0.47	0/7475
1	19	0.13	0/5511	0.34	0/7475
1	2	0.18	0/5511	0.36	0/7475
1	3	0.14	0/5511	0.33	0/7475
1	4	0.12	0/5511	0.31	0/7475
1	5	0.14	0/5511	0.34	0/7475
1	6	0.13	0/5511	0.33	0/7475
1	7	0.18	0/5511	0.38	0/7475
1	8	0.23	0/5511	0.40	0/7475
1	9	0.13	0/5511	0.35	0/7475
1	Z	0.14	0/5511	0.35	1/7475 (0.0%)
1	z	0.16	0/5511	0.38	0/7475
2	C	0.17	0/1022	0.44	0/1385
2	H	0.22	0/743	0.49	2/1013 (0.2%)
2	c	0.16	0/1022	0.44	0/1385
2	h	0.14	0/743	0.39	0/1013
3	D	0.16	0/1099	0.37	0/1483
3	d	0.15	0/1099	0.36	0/1483
4	E	0.13	0/7660	0.33	0/10315
4	I	0.12	0/6936	0.31	0/9348
4	e	0.13	0/7660	0.33	0/10315
4	i	0.12	0/6936	0.31	0/9348
5	J	0.15	0/3839	0.43	0/5207
5	j	0.15	0/3839	0.41	0/5207

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
6	K	0.13	0/1282	0.38	0/1737
6	k	0.14	0/1282	0.40	0/1737
7	O	0.21	0/1209	0.47	1/1647 (0.1%)
7	o	0.21	0/1209	0.47	1/1647 (0.1%)
8	P	0.17	0/3791	0.40	0/5124
8	Q	0.20	0/873	0.40	0/1182
8	p	0.20	0/3762	0.44	2/5084 (0.0%)
8	q	0.16	0/873	0.38	0/1182
9	R	0.19	0/461	0.46	0/626
9	r	0.17	0/461	0.42	0/626
10	N	0.14	0/7832	0.34	1/10586 (0.0%)
10	n	0.14	0/7832	0.34	1/10586 (0.0%)
11	L	0.15	0/3358	0.41	1/4547 (0.0%)
11	l	0.16	0/3358	0.42	1/4547 (0.0%)
12	M	0.16	0/3360	0.42	0/4550
12	m	0.15	0/3360	0.41	0/4550
13	A	0.15	0/7613	0.36	0/10294
13	F	0.16	0/7613	0.38	0/10294
13	a	0.15	0/7613	0.36	0/10294
13	f	0.16	0/7613	0.39	0/10294
14	B	0.13	0/2685	0.35	0/3643
14	G	0.13	0/2956	0.35	0/4011
14	b	0.13	0/2685	0.33	0/3643
14	g	0.13	0/2956	0.35	0/4011
All	All	0.16	0/238849	0.37	13/323434 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	16	0	1
5	J	0	3
5	j	0	3
8	p	0	1
9	R	0	1
9	r	0	1
All	All	0	10

There are no bond length outliers.

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	p	716	CYS	CA-CB-SG	8.10	133.03	114.40
1	1	131	PRO	N-CA-CB	7.01	110.61	103.25
1	11	131	PRO	N-CA-CB	6.99	110.59	103.25
7	O	111	CYS	CA-CB-SG	6.67	129.74	114.40
2	H	71	MET	N-CA-C	-6.67	101.69	110.43
7	o	111	CYS	CA-CB-SG	6.59	129.55	114.40
8	p	715	CYS	CA-CB-SG	-6.12	100.31	114.40
11	l	179	VAL	N-CA-C	-5.72	108.27	113.71
11	L	179	VAL	N-CA-C	-5.70	108.29	113.71
1	Z	60	LYS	CB-CA-C	-5.33	110.41	116.54
10	N	700	SER	CB-CA-C	-5.18	110.58	116.54
10	n	700	SER	CB-CA-C	-5.16	110.61	116.54
2	H	72	CYS	N-CA-C	-5.02	99.59	108.08

There are no chirality outliers.

All (10) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	16	130	MET	Peptide
5	J	220	ILE	Peptide
5	J	221	PRO	Peptide
5	J	307	ARG	Peptide
9	R	62	LEU	Peptide
5	j	220	ILE	Peptide
5	j	221	PRO	Peptide
5	j	307	ARG	Peptide
8	p	715	CYS	Peptide
9	r	62	LEU	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	1	5386	0	5383	152	0
1	11	5386	0	5383	161	0
1	12	5388	0	5389	111	0
1	13	5388	0	5389	171	0
1	14	5388	0	5389	172	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	15	5388	0	5389	226	0
1	16	5388	0	5389	196	0
1	17	5388	0	5389	147	0
1	18	5388	0	5389	164	0
1	19	5388	0	5389	169	0
1	2	5388	0	5389	123	0
1	3	5388	0	5389	177	0
1	4	5388	0	5389	159	0
1	5	5388	0	5389	206	0
1	6	5388	0	5389	185	0
1	7	5388	0	5389	141	0
1	8	5388	0	5389	145	0
1	9	5388	0	5389	172	0
1	Z	5388	0	5389	159	0
1	z	5388	0	5389	178	0
2	C	1003	0	1032	48	0
2	H	726	0	722	28	0
2	c	1003	0	1032	47	0
2	h	726	0	722	21	0
3	D	1069	0	1084	49	0
3	d	1069	0	1084	48	0
4	E	7519	0	7583	271	0
4	I	6805	0	6831	236	0
4	e	7519	0	7583	266	0
4	i	6805	0	6831	236	0
5	J	3747	0	3770	119	0
5	j	3747	0	3770	131	0
6	K	1261	0	1243	43	0
6	k	1261	0	1243	52	0
7	O	1174	0	1159	39	0
7	o	1174	0	1159	35	0
8	P	3704	0	3591	112	0
8	Q	856	0	874	50	0
8	p	3675	0	3563	113	0
8	q	856	0	874	47	0
9	R	445	0	413	46	0
9	r	445	0	413	33	0
10	N	7689	0	7791	227	0
10	n	7689	0	7791	224	0
11	L	3288	0	3162	118	0
11	l	3288	0	3162	117	0
12	M	3290	0	3164	113	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	m	3290	0	3164	111	0
13	A	7481	0	7567	191	0
13	F	7481	0	7569	222	0
13	a	7481	0	7567	186	0
13	f	7481	0	7569	215	0
14	B	2626	0	2613	66	0
14	G	2890	0	2872	70	0
14	b	2626	0	2613	66	0
14	g	2890	0	2872	70	0
15	L	28	0	12	2	0
15	M	28	0	12	1	0
15	l	28	0	12	2	0
15	m	28	0	12	1	0
16	A	27	0	12	2	0
16	F	27	0	12	1	0
16	a	27	0	12	2	0
16	f	27	0	12	1	0
All	All	234055	0	233916	7049	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 15.

All (7049) 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)
4:i:904:GLU:HB2	9:r:66:GLN:OE1	1.28	1.30
4:I:904:GLU:N	9:R:66:GLN:OE1	1.63	1.28
4:i:904:GLU:CB	9:r:66:GLN:OE1	1.84	1.26
7:O:107:CYS:O	7:O:111:CYS:HB3	1.32	1.23
7:o:107:CYS:O	7:o:111:CYS:HB3	1.31	1.22
4:i:904:GLU:N	9:r:66:GLN:OE1	1.75	1.20
4:i:901:ALA:O	9:r:66:GLN:HG3	1.42	1.17
3:d:36:GLU:HG3	4:e:40:GLN:HE22	1.05	1.16
9:R:65:LEU:HD12	9:R:66:GLN:HG2	1.31	1.12
4:I:901:ALA:O	9:R:66:GLN:HG3	1.50	1.11
4:I:904:GLU:CB	9:R:66:GLN:OE1	1.98	1.11
4:i:904:GLU:HB2	9:r:66:GLN:CD	1.75	1.11
4:E:5:ILE:CG2	4:E:6:SER:H	1.62	1.09
4:e:5:ILE:HG22	4:e:6:SER:N	1.60	1.08
4:E:5:ILE:HG22	4:E:6:SER:N	1.60	1.07
4:e:5:ILE:CG2	4:e:6:SER:H	1.62	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:r:65:LEU:HD12	9:r:66:GLN:HG2	1.31	1.06
1:3:513:VAL:HG11	1:3:625:ILE:HD12	1.35	1.05
4:I:904:GLU:HG2	9:R:66:GLN:OE1	1.57	1.03
1:3:516:PHE:H	1:3:622:GLY:HA2	1.19	1.03
1:14:89:ASP:HB2	1:14:111:LEU:O	1.59	1.03
1:4:89:ASP:HB2	1:4:111:LEU:O	1.58	1.02
3:d:36:GLU:CG	4:e:40:GLN:HE22	1.74	1.01
4:I:904:GLU:CG	9:R:66:GLN:OE1	2.09	1.00
9:r:60:CYS:HA	9:r:63:CYS:HA	1.44	0.99
4:I:904:GLU:HB2	9:R:66:GLN:NE2	1.78	0.98
4:I:134:GLU:O	4:I:138:ILE:HB	1.65	0.97
4:i:134:GLU:O	4:i:138:ILE:HB	1.64	0.97
9:R:60:CYS:HA	9:R:63:CYS:HA	1.43	0.97
4:e:5:ILE:HG22	4:e:6:SER:H	0.81	0.96
9:r:65:LEU:CD1	9:r:66:GLN:HG2	1.96	0.96
9:R:65:LEU:CD1	9:R:66:GLN:HG2	1.95	0.95
4:E:5:ILE:HG22	4:E:6:SER:H	0.81	0.94
4:i:901:ALA:O	9:r:66:GLN:CG	2.16	0.94
13:f:869:VAL:HG11	13:f:874:MET:HE3	1.48	0.94
4:i:904:GLU:CA	9:r:66:GLN:OE1	2.16	0.93
7:o:107:CYS:O	7:o:111:CYS:CB	2.15	0.93
4:I:904:GLU:HB2	9:R:66:GLN:HE22	1.26	0.93
4:i:901:ALA:C	9:r:66:GLN:HG3	1.92	0.93
1:9:116:ILE:HA	1:9:184:THR:O	1.69	0.92
4:I:904:GLU:CA	9:R:66:GLN:OE1	2.16	0.92
7:O:107:CYS:O	7:O:111:CYS:CB	2.15	0.92
4:I:901:ALA:C	9:R:66:GLN:HG3	1.94	0.92
1:3:27:LEU:O	1:3:75:ALA:HB3	1.69	0.92
11:l:101:TRP:HD1	11:l:145:SER:HB3	1.35	0.91
4:i:764:CYS:O	4:i:768:CYS:HB2	1.71	0.91
4:I:764:CYS:O	4:I:768:CYS:HB2	1.71	0.90
4:I:310:HIS:HD2	4:I:316:ARG:HB3	1.36	0.90
1:Z:144:MET:HG2	1:8:101:GLU:HB2	1.53	0.90
11:L:101:TRP:HD1	11:L:145:SER:HB3	1.35	0.89
4:i:310:HIS:HD2	4:i:316:ARG:HB3	1.36	0.89
1:13:27:LEU:O	1:13:75:ALA:HB3	1.72	0.89
1:19:116:ILE:HA	1:19:184:THR:O	1.71	0.89
4:I:901:ALA:O	9:R:66:GLN:CG	2.20	0.89
13:a:853:LEU:HD22	13:a:888:LEU:HD21	1.53	0.89
1:5:43:ARG:HD2	1:5:64:VAL:HG13	1.54	0.88
13:A:853:LEU:HD22	13:A:888:LEU:HD21	1.53	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:36:GLU:HG3	4:e:40:GLN:NE2	1.88	0.87
3:d:36:GLU:CD	4:e:40:GLN:NE2	2.32	0.87
6:k:62:CYS:O	6:k:66:LYS:HB3	1.75	0.87
10:N:842:LEU:H	10:N:868:ASN:HB3	1.41	0.86
4:I:207:TRP:HD1	4:I:209:SER:H	1.23	0.85
1:18:43:ARG:HB3	1:18:92:LEU:H	1.42	0.85
1:1:47:ARG:HG2	1:1:81:ALA:HB3	1.57	0.85
11:l:133:PHE:HB2	11:l:164:MET:HG2	1.59	0.84
10:n:842:LEU:H	10:n:868:ASN:HB3	1.41	0.84
1:14:49:LEU:HA	1:14:57:ILE:O	1.77	0.84
1:11:42:ILE:HG22	1:11:67:ARG:HH22	1.41	0.84
8:p:64:ARG:NH2	8:p:339:CYS:O	2.11	0.84
2:c:67:GLU:HG2	2:c:71:MET:HE1	1.59	0.84
11:L:156:ARG:HD3	11:L:195:ASN:HB2	1.60	0.84
8:p:715:CYS:SG	8:p:716:CYS:N	2.51	0.84
1:14:57:ILE:HG23	1:14:63:THR:HG21	1.58	0.84
1:14:139:LYS:HB3	1:14:141:MET:HE3	1.59	0.83
1:1:307:LEU:HD21	1:1:317:VAL:HG23	1.61	0.83
1:6:129:ASP:HA	1:7:43:ARG:HH22	1.42	0.83
4:I:904:GLU:HB2	9:R:66:GLN:CD	2.03	0.83
1:8:115:GLU:HB2	1:8:186:GLU:HB2	1.59	0.83
11:L:133:PHE:HB2	11:L:164:MET:HG2	1.59	0.83
10:n:119:LEU:HB3	10:n:124:ILE:HD11	1.60	0.83
11:l:156:ARG:HD3	11:l:195:ASN:HB2	1.60	0.83
1:15:61:GLU:HB3	1:14:130:MET:HB2	1.60	0.83
4:I:606:VAL:HG12	4:I:618:LEU:HD21	1.60	0.83
4:i:207:TRP:HD1	4:i:209:SER:H	1.23	0.83
1:16:129:ASP:HA	1:17:43:ARG:HH22	1.43	0.83
1:9:118:LEU:HD11	1:9:181:MET:HB2	1.61	0.83
4:i:606:VAL:HG12	4:i:618:LEU:HD21	1.60	0.82
1:15:619:LYS:HB2	1:15:648:PHE:HB3	1.60	0.82
8:q:203:ARG:HB3	8:q:283:ARG:HH12	1.44	0.82
1:11:308:CYS:HB2	1:11:345:LEU:HD13	1.61	0.82
4:I:238:LEU:HB2	4:I:264:ARG:HH12	1.45	0.82
1:11:307:LEU:HD21	1:11:317:VAL:HG23	1.61	0.82
1:7:50:ILE:HB	1:7:57:ILE:HB	1.60	0.82
4:E:19:LYS:HG2	4:E:23:MET:HE1	1.61	0.82
1:12:46:PRO:HD3	1:12:61:GLU:HB3	1.62	0.81
8:Q:203:ARG:HB3	8:Q:283:ARG:HH12	1.43	0.81
1:Z:408:MET:HE1	1:Z:469:MET:HB2	1.62	0.81
8:p:720:VAL:HB	8:p:723:PRO:HB3	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:281:THR:HG22	4:E:285:MET:HE2	1.62	0.81
4:e:281:THR:HG22	4:e:285:MET:HE2	1.61	0.81
4:i:641:LYS:HG2	4:i:670:ASN:HB2	1.62	0.81
4:i:904:GLU:HB2	9:r:66:GLN:NE2	1.95	0.81
8:p:447:HIS:HD1	8:p:449:PRO:HD2	1.44	0.81
1:Z:319:SER:HB3	1:Z:649:ILE:HD12	1.63	0.81
1:2:46:PRO:HD3	1:2:61:GLU:HB3	1.61	0.81
5:j:351:VAL:HG22	5:j:357:ILE:HG22	1.63	0.81
1:Z:131:PRO:HA	1:8:43:ARG:HH12	1.45	0.81
1:4:139:LYS:HB3	1:4:141:MET:HE3	1.61	0.81
1:4:129:ASP:HB3	1:5:61:GLU:HG2	1.62	0.80
8:P:723:PRO:HB2	8:P:731:ASN:HB2	1.63	0.80
4:e:326:VAL:HG13	4:e:332:LEU:HB3	1.62	0.80
3:d:36:GLU:CG	4:e:40:GLN:NE2	2.42	0.80
4:i:238:LEU:HB2	4:i:264:ARG:HH12	1.44	0.80
5:j:47:GLN:O	5:j:50:TRP:O	2.00	0.80
10:N:48:HIS:HB2	11:L:246:LEU:HD13	1.64	0.80
4:I:641:LYS:HG2	4:I:670:ASN:HB2	1.62	0.80
4:E:326:VAL:HG13	4:E:332:LEU:HB3	1.62	0.80
5:j:204:PRO:HB2	5:j:220:ILE:HD12	1.64	0.80
4:e:19:LYS:HG2	4:e:23:MET:HE1	1.62	0.80
1:5:619:LYS:HB2	1:5:648:PHE:HB3	1.61	0.80
1:9:3:PHE:HB2	1:9:281:LEU:HB3	1.63	0.80
9:r:70:LEU:HD23	9:r:75:MET:HG3	1.64	0.80
1:z:43:ARG:HB3	1:z:92:LEU:H	1.47	0.80
13:f:375:THR:HB	13:f:591:ARG:HG2	1.64	0.79
5:J:204:PRO:HB2	5:J:220:ILE:HD12	1.64	0.79
1:1:36:LYS:HE2	1:1:101:GLU:HG2	1.65	0.79
13:f:761:MET:HE1	13:f:789:LEU:HA	1.64	0.79
2:C:126:VAL:HA	2:C:129:PHE:CE2	2.18	0.79
1:Z:296:MET:HE2	1:Z:670:ARG:HB2	1.65	0.79
5:J:351:VAL:HG22	5:J:357:ILE:HG22	1.64	0.78
6:K:62:CYS:O	6:K:66:LYS:HB3	1.83	0.78
6:K:78:LYS:HE3	6:K:81:ARG:HH12	1.47	0.78
4:e:622:TRP:HZ2	4:e:653:LEU:HB2	1.48	0.78
5:J:47:GLN:O	5:J:50:TRP:O	2.00	0.78
1:1:309:ARG:HD2	1:1:333:LYS:HE3	1.65	0.78
1:11:47:ARG:HG2	1:11:81:ALA:HB3	1.65	0.78
1:5:300:GLN:HE22	1:5:671:VAL:HB	1.48	0.78
4:I:904:GLU:H	9:R:66:GLN:CD	1.92	0.77
14:b:472:MET:HE2	14:b:488:ALA:HA	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:326:VAL:HG12	11:l:330:MET:HE1	1.66	0.77
1:11:124:ARG:HH12	1:11:147:TRP:HA	1.48	0.77
1:16:95:TYR:HB2	1:16:105:ALA:HB3	1.66	0.77
1:3:181:MET:HE1	1:3:263:LEU:HD12	1.64	0.77
10:n:331:CYS:HB3	10:n:394:PHE:HB2	1.67	0.77
14:g:363:TYR:HA	14:g:390:SER:HA	1.67	0.77
1:14:584:LEU:HD21	1:14:593:SER:H	1.49	0.77
4:I:503:LEU:HD23	4:I:508:GLU:HB3	1.67	0.77
13:F:312:ILE:HA	13:F:315:GLN:HB2	1.65	0.77
1:13:57:ILE:HG23	1:13:63:THR:HB	1.67	0.77
1:1:308:CYS:HB2	1:1:345:LEU:HD13	1.65	0.77
1:15:300:GLN:HE22	1:15:671:VAL:HB	1.48	0.77
1:Z:119:GLU:HB2	1:Z:182:ASN:HB2	1.67	0.76
1:3:675:PHE:HE2	1:3:680:MET:HB3	1.50	0.76
1:7:211:VAL:HG22	1:7:247:VAL:HG22	1.64	0.76
4:I:904:GLU:HB2	9:R:66:GLN:OE1	1.84	0.76
1:3:346:GLN:HB2	1:3:665:SER:HB2	1.66	0.76
13:F:375:THR:HB	13:F:591:ARG:HG2	1.66	0.76
1:15:26:THR:HA	1:15:75:ALA:O	1.85	0.76
1:13:346:GLN:HB2	1:13:665:SER:HB2	1.66	0.76
4:E:622:TRP:HZ2	4:E:653:LEU:HB2	1.47	0.76
6:k:142:LYS:HG3	6:k:143:ASN:H	1.51	0.76
11:L:326:VAL:HG12	11:L:330:MET:HE1	1.67	0.76
1:15:212:TYR:HB3	1:15:221:TYR:HB3	1.67	0.76
10:N:331:CYS:HB3	10:N:394:PHE:HB2	1.67	0.76
1:2:195:TYR:HB3	1:2:267:LEU:HD11	1.67	0.76
1:19:18:LEU:HD23	1:19:112:THR:HB	1.66	0.76
2:h:71:MET:HE3	9:r:40:GLY:HA3	1.67	0.76
12:M:271:ALA:HB2	12:M:365:ALA:H	1.50	0.76
1:15:118:LEU:HD11	1:15:286:VAL:HG21	1.68	0.76
4:e:231:LEU:HD11	4:e:275:LEU:HB3	1.68	0.76
1:6:299:THR:HA	1:6:477:PRO:HB3	1.68	0.76
1:17:211:VAL:HG22	1:17:247:VAL:HG22	1.66	0.76
1:12:195:TYR:HB3	1:12:267:LEU:HD11	1.68	0.75
14:B:509:LYS:HD3	14:B:513:ILE:HG12	1.67	0.75
1:11:101:GLU:HG3	1:11:103:PRO:HD2	1.68	0.75
1:19:3:PHE:HB2	1:19:281:LEU:HB3	1.68	0.75
1:1:130:MET:HB2	1:3:43:ARG:HD3	1.68	0.75
14:G:363:TYR:HA	14:G:390:SER:HA	1.67	0.75
1:13:675:PHE:HE2	1:13:680:MET:HB3	1.50	0.75
1:4:584:LEU:HD21	1:4:593:SER:H	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:95:TYR:HB2	1:6:105:ALA:HB3	1.67	0.75
1:Z:216:ARG:HH22	1:Z:237:PHE:HA	1.51	0.75
1:3:581:LEU:HB3	1:3:596:LEU:HD22	1.67	0.75
14:B:472:MET:HE2	14:B:488:ALA:HA	1.67	0.75
12:m:271:ALA:HB2	12:m:365:ALA:H	1.50	0.75
1:5:212:TYR:HB3	1:5:221:TYR:HB3	1.69	0.75
13:A:1097:PHE:HB3	13:A:1102:MET:HE3	1.69	0.75
1:11:133:ASP:HA	1:13:62:ASP:HB3	1.68	0.75
1:13:181:MET:HE1	1:13:263:LEU:HD12	1.68	0.75
4:E:126:ILE:HG22	4:E:128:ASN:H	1.51	0.75
4:e:126:ILE:HG22	4:e:128:ASN:H	1.51	0.75
1:9:18:LEU:HD23	1:9:112:THR:HB	1.66	0.75
1:12:39:SER:HA	1:12:69:MET:H	1.52	0.75
13:f:312:ILE:HA	13:f:315:GLN:HB2	1.66	0.75
1:z:621:PHE:HE2	1:z:652:PHE:HB2	1.52	0.75
1:7:422:LEU:HD11	1:7:677:TRP:HB3	1.67	0.75
10:n:479:GLN:HG2	10:n:509:ILE:HB	1.68	0.75
10:n:769:LYS:HA	10:n:799:HIS:HB3	1.68	0.75
8:P:678:ILE:HG23	8:P:688:TRP:HB3	1.69	0.74
1:13:581:LEU:HB3	1:13:596:LEU:HD22	1.68	0.74
4:I:904:GLU:CB	9:R:66:GLN:CD	2.60	0.74
10:n:114:THR:H	10:n:156:SER:HB2	1.50	0.74
5:J:95:LEU:HD22	5:J:125:SER:HA	1.69	0.74
1:3:49:LEU:HD22	1:3:78:ARG:HB2	1.68	0.74
8:P:447:HIS:HD1	8:P:449:PRO:HD2	1.52	0.74
1:16:299:THR:HA	1:16:477:PRO:HB3	1.68	0.74
1:1:95:TYR:HB2	1:1:105:ALA:HB3	1.69	0.74
4:E:231:LEU:HD11	4:E:275:LEU:HB3	1.68	0.74
5:J:20:TYR:HB3	5:J:24:GLN:HB3	1.67	0.74
8:p:678:ILE:HG23	8:p:688:TRP:HB3	1.70	0.74
1:17:605:MET:HA	1:17:618:PRO:HG2	1.70	0.74
5:j:20:TYR:HB3	5:j:24:GLN:HB3	1.68	0.74
12:m:390:ARG:HG2	12:m:391:ARG:HG2	1.69	0.74
6:k:30:MET:HE1	6:k:45:VAL:HG13	1.69	0.74
1:2:119:GLU:HB2	1:2:182:ASN:HB2	1.70	0.74
10:N:479:GLN:HG2	10:N:509:ILE:HB	1.69	0.74
1:15:492:LEU:HD22	1:15:554:ILE:HG23	1.70	0.74
4:e:539:ALA:HA	4:e:542:GLN:HE21	1.53	0.74
1:z:346:GLN:HB2	1:z:665:SER:HB2	1.70	0.74
14:b:509:LYS:HD3	14:b:513:ILE:HG12	1.69	0.74
1:Z:469:MET:HE3	1:Z:472:PHE:HE2	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:n:730:LYS:HG3	10:n:763:LEU:HD11	1.69	0.73
1:4:212:TYR:HB3	1:4:221:TYR:HB3	1.70	0.73
10:N:769:LYS:HA	10:N:799:HIS:HB3	1.68	0.73
12:m:99:ASN:HA	12:m:142:GLY:H	1.53	0.73
13:a:955:ILE:HB	13:a:981:ASN:HD21	1.52	0.73
1:13:319:SER:HB2	1:13:649:ILE:HG23	1.68	0.73
1:18:49:LEU:HD22	1:18:78:ARG:HB3	1.70	0.73
1:15:302:PRO:HA	1:15:670:ARG:HG2	1.70	0.73
3:D:122:GLY:HA2	4:E:385:TYR:HD2	1.54	0.73
2:c:126:VAL:HA	2:c:129:PHE:CE2	2.23	0.73
1:3:157:PRO:HD3	1:3:387:GLY:HA2	1.70	0.73
13:F:971:THR:HG23	13:F:972:LYS:HD3	1.70	0.73
1:11:130:MET:HE3	1:13:43:ARG:HD2	1.69	0.73
1:z:311:LEU:HD12	13:F:794:LYS:HG2	1.70	0.73
1:7:6:SER:HA	1:7:26:THR:HB	1.69	0.73
1:7:605:MET:HA	1:7:618:PRO:HG2	1.71	0.73
13:A:955:ILE:HB	13:A:981:ASN:HD21	1.53	0.73
1:17:426:LEU:HB3	1:17:459:LEU:HD11	1.69	0.73
1:4:226:GLY:H	1:4:229:LYS:HB2	1.54	0.73
1:12:119:GLU:HB2	1:12:182:ASN:HB2	1.69	0.73
4:E:44:THR:HG22	4:E:47:LYS:HZ3	1.52	0.73
8:Q:206:THR:H	8:Q:275:LEU:HD23	1.54	0.73
1:5:581:LEU:HD22	1:5:596:LEU:HB3	1.71	0.73
6:k:154:ARG:HH21	6:k:156:GLU:HG2	1.53	0.73
1:9:116:ILE:HG12	1:9:185:VAL:HA	1.71	0.73
1:1:133:ASP:HA	1:3:62:ASP:HB3	1.70	0.73
6:K:142:LYS:HG3	6:K:143:ASN:H	1.51	0.73
4:e:863:HIS:HA	4:e:892:GLN:HB2	1.70	0.73
8:P:1:MET:HB2	8:P:65:LEU:HB3	1.68	0.73
1:Z:478:THR:HG22	1:Z:644:LEU:HD11	1.71	0.72
10:n:333:ALA:HA	10:n:353:HIS:CE1	2.24	0.72
1:9:581:LEU:HB3	1:9:596:LEU:HB3	1.71	0.72
12:M:390:ARG:HG2	12:M:391:ARG:HG2	1.69	0.72
13:a:379:LYS:HG3	13:a:383:MET:HE1	1.71	0.72
1:19:116:ILE:HG12	1:19:185:VAL:HA	1.70	0.72
1:15:20:MET:HB2	1:15:23:MET:HE1	1.69	0.72
12:M:99:ASN:HA	12:M:142:GLY:H	1.54	0.72
10:n:48:HIS:HB2	11:l:246:LEU:HD13	1.70	0.72
1:19:581:LEU:HB3	1:19:596:LEU:HB3	1.72	0.72
8:P:720:VAL:HB	8:P:723:PRO:HB3	1.71	0.72
12:M:30:ILE:HA	12:M:36:TYR:HA	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:157:PRO:HD3	1:6:387:GLY:HA2	1.72	0.72
1:16:151:LEU:HB2	1:16:290:VAL:HA	1.72	0.72
1:5:302:PRO:HA	1:5:670:ARG:HG2	1.70	0.72
13:F:842:THR:HG23	13:F:845:GLY:H	1.55	0.72
3:d:122:GLY:HA2	4:e:385:TYR:HD2	1.54	0.72
1:3:304:GLU:HG2	1:3:330:GLN:HB2	1.72	0.72
13:F:861:CYS:HB2	13:F:890:LYS:HE3	1.72	0.72
1:14:143:GLY:HA2	1:14:681:THR:HG22	1.70	0.72
1:14:212:TYR:HB3	1:14:221:TYR:HB3	1.70	0.72
1:3:57:ILE:HG23	1:3:63:THR:HB	1.72	0.72
1:8:20:MET:HE1	1:8:116:ILE:HB	1.72	0.72
8:P:342:CYS:HB3	8:P:365:TYR:CZ	2.25	0.72
12:M:91:VAL:HG21	12:M:119:VAL:HG21	1.72	0.72
12:M:323:MET:HE3	12:M:327:ASP:HB3	1.70	0.72
13:A:379:LYS:HG3	13:A:383:MET:HE1	1.71	0.72
1:18:42:ILE:HG13	1:18:93:VAL:HG22	1.72	0.72
4:E:539:ALA:HA	4:E:542:GLN:HE21	1.54	0.72
12:m:323:MET:HE3	12:m:327:ASP:HB3	1.70	0.72
13:a:971:THR:HG23	13:a:972:LYS:HG3	1.72	0.72
4:E:863:HIS:HA	4:E:892:GLN:HB2	1.71	0.72
13:f:971:THR:HG23	13:f:972:LYS:HD3	1.70	0.72
4:I:904:GLU:CG	9:R:66:GLN:CD	2.63	0.71
6:k:85:ILE:HG23	6:k:90:GLN:HE21	1.53	0.71
1:3:20:MET:HE1	1:3:116:ILE:HB	1.72	0.71
10:n:354:GLU:O	10:n:355:LEU:HD23	1.90	0.71
1:14:226:GLY:H	1:14:229:LYS:HB2	1.54	0.71
1:14:343:LYS:HB3	1:14:346:GLN:HE21	1.55	0.71
1:13:20:MET:HE1	1:13:116:ILE:HB	1.70	0.71
1:Z:559:THR:HG21	1:9:5:ASN:HB2	1.71	0.71
4:i:151:LEU:HD11	4:i:162:MET:HE1	1.72	0.71
5:j:5:LEU:HB2	5:j:10:MET:HE3	1.72	0.71
1:z:49:LEU:HD22	1:z:78:ARG:HB2	1.73	0.71
13:a:254:GLY:HA3	16:a:1201:ADP:H8	1.55	0.71
1:13:625:ILE:H	1:13:630:CYS:HB2	1.55	0.71
5:J:30:LYS:HE2	6:K:145:PHE:HA	1.72	0.71
5:j:84:ILE:HG22	5:j:87:ASP:HB2	1.72	0.71
1:5:309:ARG:HD2	1:5:333:LYS:HG3	1.71	0.71
14:G:535:THR:HG22	14:G:547:GLN:HG2	1.72	0.71
1:15:138:LYS:HG2	1:15:285:THR:HB	1.71	0.71
4:i:398:CYS:HB3	4:i:461:PHE:HB2	1.71	0.71
13:A:245:ILE:HG12	13:A:388:LEU:HB3	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:m:91:VAL:HG21	12:m:119:VAL:HG21	1.72	0.71
1:15:309:ARG:HD2	1:15:333:LYS:HG3	1.71	0.71
1:4:143:GLY:HA2	1:4:681:THR:HG22	1.71	0.71
1:19:33:ALA:HB1	1:19:69:MET:HG2	1.73	0.71
1:13:49:LEU:HD22	1:13:78:ARG:HB2	1.70	0.71
5:J:84:ILE:HG22	5:J:87:ASP:HB2	1.70	0.71
6:K:30:MET:HE1	6:K:45:VAL:HG13	1.73	0.71
6:K:85:ILE:HG23	6:K:90:GLN:HE21	1.54	0.71
5:j:95:LEU:HD22	5:j:125:SER:HA	1.71	0.71
1:8:184:THR:HG22	1:8:242:LYS:HG3	1.73	0.71
1:1:408:MET:HE2	1:1:473:MET:HE3	1.72	0.71
4:E:748:VAL:HG22	4:E:776:TYR:HB3	1.72	0.71
13:a:283:VAL:HA	13:a:286:ILE:HG12	1.72	0.71
1:13:157:PRO:HD3	1:13:387:GLY:HA2	1.70	0.71
3:D:36:GLU:HB2	4:E:40:GLN:HE21	1.54	0.71
1:5:138:LYS:HG2	1:5:285:THR:HB	1.73	0.71
4:e:498:CYS:HB3	4:e:556:GLU:HG3	1.72	0.71
13:A:283:VAL:HA	13:A:286:ILE:HG12	1.72	0.71
13:F:1052:LEU:HB3	13:F:1084:ASN:HD21	1.56	0.71
13:a:245:ILE:HG12	13:a:388:LEU:HB3	1.73	0.71
14:g:535:THR:HG22	14:g:547:GLN:HG2	1.72	0.71
1:4:343:LYS:HB3	1:4:346:GLN:HE21	1.56	0.71
8:p:64:ARG:HH21	8:p:340:ASP:HA	1.56	0.71
1:1:124:ARG:HH12	1:1:147:TRP:HA	1.55	0.70
4:e:776:TYR:HA	4:e:804:HIS:O	1.91	0.70
1:15:581:LEU:HD22	1:15:596:LEU:HB3	1.71	0.70
2:C:133:ARG:HH21	3:D:54:MET:HG2	1.56	0.70
4:e:181:SER:H	4:e:223:LYS:HB3	1.55	0.70
4:i:198:SER:HB2	4:i:252:LYS:HA	1.73	0.70
6:k:30:MET:HE3	6:k:34:LEU:HD12	1.73	0.70
12:M:109:GLY:HA2	12:M:147:MET:HE2	1.72	0.70
1:15:464:LEU:HD13	1:15:471:GLN:HB3	1.74	0.70
1:16:157:PRO:HD3	1:16:387:GLY:HA2	1.72	0.70
1:13:304:GLU:HG2	1:13:330:GLN:HB2	1.71	0.70
4:E:498:CYS:HB3	4:E:556:GLU:HG3	1.72	0.70
4:E:776:TYR:HA	4:E:804:HIS:O	1.91	0.70
13:f:861:CYS:HB2	13:f:890:LYS:HE3	1.72	0.70
1:14:408:MET:HG2	1:14:473:MET:HE1	1.73	0.70
1:17:50:ILE:O	1:17:56:VAL:HA	1.92	0.70
2:H:71:MET:HE3	9:R:40:GLY:HA3	1.73	0.70
1:4:408:MET:HG2	1:4:473:MET:HE1	1.74	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6:151:LEU:HB2	1:6:290:VAL:HA	1.73	0.70
10:N:923:MET:HG2	10:N:924:LYS:HG3	1.73	0.70
13:A:971:THR:HG23	13:A:972:LYS:HG3	1.72	0.70
1:14:468:HIS:HB2	1:14:471:GLN:HG3	1.74	0.70
13:A:254:GLY:HA3	16:A:1201:ADP:H8	1.55	0.70
1:17:57:ILE:HG22	1:17:59:GLY:H	1.55	0.70
1:1:9:LEU:HD12	1:1:29:ILE:HA	1.72	0.70
1:1:60:LYS:HG3	1:3:80:VAL:HG12	1.73	0.70
4:E:181:SER:H	4:E:223:LYS:HB3	1.55	0.70
4:I:371:THR:HG21	4:I:503:LEU:HD21	1.73	0.70
4:e:748:VAL:HG22	4:e:776:TYR:HB3	1.72	0.70
1:z:505:LYS:HD2	1:z:625:ILE:HG21	1.73	0.70
1:6:101:GLU:H	1:7:679:LYS:HZ3	1.39	0.70
11:L:204:ASN:HA	11:L:207:LEU:HD12	1.72	0.70
11:l:204:ASN:HA	11:l:207:LEU:HD12	1.72	0.70
1:15:130:MET:HB3	1:14:61:GLU:HG3	1.73	0.70
4:I:371:THR:HG22	4:I:460:ILE:HD11	1.73	0.70
4:e:335:ILE:HG23	4:e:341:LEU:HB3	1.72	0.70
1:z:213:TRP:HE3	1:z:224:VAL:HG11	1.56	0.70
1:8:334:VAL:HG11	1:8:378:MET:HE3	1.73	0.70
1:9:349:MET:HG2	1:9:378:MET:HE3	1.74	0.70
4:E:503:LEU:HD22	4:E:512:LEU:HD11	1.74	0.70
6:k:154:ARG:HH22	6:k:157:ASN:HB2	1.55	0.70
8:q:203:ARG:HB2	8:q:280:PRO:HA	1.72	0.70
1:3:581:LEU:HD22	1:3:596:LEU:HB3	1.73	0.70
1:14:490:LEU:HD11	1:14:561:LEU:HD21	1.74	0.70
5:j:387:ARG:HB3	5:j:398:THR:HB	1.72	0.70
1:4:468:HIS:HB2	1:4:471:GLN:HG3	1.74	0.70
1:7:305:VAL:HB	1:7:331:VAL:HG22	1.74	0.70
12:M:326:VAL:HG12	12:M:330:MET:HE1	1.73	0.70
13:a:1008:VAL:HG13	13:a:1036:GLY:HA3	1.74	0.70
14:g:344:VAL:HG12	14:g:364:ASN:HB3	1.74	0.70
1:17:305:VAL:HB	1:17:331:VAL:HG22	1.74	0.70
4:I:398:CYS:HB3	4:I:461:PHE:HB2	1.73	0.69
1:3:516:PHE:N	1:3:622:GLY:HA2	2.02	0.69
1:12:3:PHE:HE2	1:12:267:LEU:HD23	1.57	0.69
13:F:761:MET:HE1	13:F:789:LEU:HA	1.71	0.69
5:J:350:GLY:HA3	5:J:390:VAL:HG21	1.73	0.69
1:5:42:ILE:O	1:5:64:VAL:HA	1.92	0.69
4:E:405:MET:HE1	4:E:455:GLU:HA	1.74	0.69
1:Z:116:ILE:HG12	1:Z:185:VAL:HG22	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:8:LYS:HD3	8:p:717:GLN:HB2	1.74	0.69
11:L:27:GLU:HG2	11:L:241:ARG:HH12	1.57	0.69
13:F:495:CYS:HB3	13:F:559:TYR:HB2	1.75	0.69
12:m:326:VAL:HG12	12:m:330:MET:HE1	1.72	0.69
4:e:503:LEU:HD22	4:e:512:LEU:HD11	1.73	0.69
1:z:140:TRP:CD1	1:z:148:GLY:HA3	2.27	0.69
1:2:116:ILE:HD13	1:2:197:LEU:HD11	1.73	0.69
4:E:238:LEU:HD22	4:E:289:ILE:HG12	1.74	0.69
4:I:198:SER:HB2	4:I:252:LYS:HA	1.73	0.69
1:2:356:ALA:HB3	1:2:359:LYS:H	1.58	0.69
1:4:21:VAL:HA	1:4:79:MET:HB2	1.74	0.69
1:4:490:LEU:HD11	1:4:561:LEU:HD21	1.74	0.69
1:7:209:THR:HB	1:7:261:ILE:HD13	1.74	0.69
10:n:923:MET:HG2	10:n:924:LYS:HG3	1.72	0.69
8:Q:234:TRP:CZ2	8:Q:275:LEU:HD22	2.27	0.69
5:j:350:GLY:HA3	5:j:390:VAL:HG21	1.73	0.69
1:2:3:PHE:HE2	1:2:267:LEU:HD23	1.58	0.69
10:N:241:TYR:HA	10:N:244:HIS:HD2	1.58	0.69
13:f:495:CYS:HB3	13:f:559:TYR:HB2	1.74	0.69
1:18:624:LYS:HA	1:18:629:CYS:HA	1.73	0.69
1:1:130:MET:HE3	1:3:43:ARG:HD2	1.75	0.69
4:I:345:VAL:HG13	4:I:369:LEU:HD11	1.74	0.69
1:4:131:PRO:HB2	1:4:137:LYS:HD3	1.75	0.69
10:n:241:TYR:HA	10:n:244:HIS:HD2	1.58	0.69
1:11:319:SER:HB3	1:11:649:ILE:HD12	1.74	0.69
1:19:516:PHE:HB3	1:19:519:ILE:HB	1.75	0.69
4:i:345:VAL:HG13	4:i:369:LEU:HD11	1.74	0.69
1:12:116:ILE:HD13	1:12:197:LEU:HD11	1.73	0.69
1:17:209:THR:HB	1:17:261:ILE:HD13	1.74	0.69
8:Q:203:ARG:HB2	8:Q:280:PRO:HA	1.75	0.69
2:c:133:ARG:HH21	3:d:54:MET:HG2	1.56	0.69
1:6:11:LEU:HG	1:6:32:CYS:HB2	1.75	0.69
1:9:41:THR:HA	1:9:65:VAL:O	1.93	0.69
13:A:288:TRP:HB3	13:A:351:TYR:HB3	1.74	0.69
1:13:581:LEU:HD22	1:13:596:LEU:HB3	1.73	0.69
1:8:355:GLN:HG3	1:8:360:THR:HG22	1.74	0.68
10:n:96:LEU:HD22	10:n:230:LEU:HD21	1.75	0.68
1:19:170:GLU:HG3	1:19:178:LEU:HD11	1.74	0.68
1:9:170:GLU:HG3	1:9:178:LEU:HD11	1.76	0.68
11:l:27:GLU:HG2	11:l:241:ARG:HH12	1.57	0.68
5:J:387:ARG:HB3	5:J:398:THR:HB	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:96:PHE:HA	1:3:103:PRO:HB3	1.75	0.68
1:9:453:VAL:HG13	1:9:680:MET:HE1	1.75	0.68
10:N:730:LYS:HG3	10:N:763:LEU:HD11	1.76	0.68
13:f:1052:LEU:HB3	13:f:1084:ASN:HD21	1.56	0.68
1:15:49:LEU:HD23	1:15:80:VAL:HG11	1.75	0.68
1:16:119:GLU:HG2	1:16:182:ASN:HB2	1.73	0.68
1:17:6:SER:HA	1:17:26:THR:HB	1.76	0.68
4:I:904:GLU:HG2	9:R:66:GLN:CD	2.17	0.68
9:R:64:GLY:HA3	9:R:83:HIS:CE1	2.28	0.68
1:3:502:PHE:HZ	1:3:623:PRO:HG3	1.58	0.68
11:l:101:TRP:CD1	11:l:145:SER:HB3	2.25	0.68
4:e:148:MET:HA	4:e:273:LEU:HB2	1.76	0.68
1:8:309:ARG:NH2	1:8:313:LEU:HB2	2.08	0.68
4:E:314:GLN:HE22	4:E:350:LYS:HG3	1.59	0.68
8:Q:284:ARG:HA	8:Q:293:PRO:HB2	1.74	0.68
1:8:186:GLU:HA	1:8:241:ARG:HE	1.58	0.68
8:p:723:PRO:HB2	8:p:731:ASN:HB2	1.74	0.68
1:19:453:VAL:HG13	1:19:680:MET:HE1	1.74	0.68
4:E:854:LYS:HG3	4:E:880:ALA:HA	1.74	0.68
1:3:546:GLN:HG2	1:3:581:LEU:HD12	1.75	0.68
1:19:38:LYS:HB2	1:19:98:PRO:HA	1.75	0.68
1:14:97:CYS:HB2	1:14:100:GLN:HG3	1.75	0.68
1:z:157:PRO:HD3	1:z:387:GLY:HA2	1.76	0.68
1:5:118:LEU:HD11	1:5:286:VAL:HG21	1.74	0.68
13:F:263:VAL:HG23	13:F:278:VAL:HG11	1.76	0.68
1:16:345:LEU:HD12	1:16:349:MET:HG3	1.75	0.68
1:Z:226:GLY:H	1:Z:229:LYS:HB2	1.59	0.68
9:r:64:GLY:HA3	9:r:83:HIS:CE1	2.29	0.68
1:z:35:ASP:HA	1:z:69:MET:HE1	1.74	0.68
1:7:27:LEU:HB3	1:7:75:ALA:HB3	1.76	0.68
10:n:728:LEU:HG	10:n:732:GLY:HA3	1.76	0.68
1:18:51:HIS:HD2	1:18:56:VAL:HG22	1.59	0.68
4:I:148:MET:HE1	4:I:263:LEU:HD22	1.74	0.68
1:Z:9:LEU:HG	1:Z:27:LEU:HD11	1.75	0.68
1:Z:60:LYS:HG3	1:8:130:MET:HE2	1.76	0.68
1:4:305:VAL:HG22	1:4:668:ILE:HG12	1.76	0.68
1:6:345:LEU:HD12	1:6:349:MET:HG3	1.75	0.68
14:G:344:VAL:HG12	14:G:364:ASN:HB3	1.74	0.68
1:14:43:ARG:HE	1:14:64:VAL:HB	1.59	0.68
1:17:90:LYS:HD2	1:17:92:LEU:HD21	1.74	0.68
3:D:12:PRO:HD2	3:D:27:PRO:HG3	1.77	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:237:VAL:HG12	8:Q:253:GLY:HA3	1.75	0.67
9:R:50:ARG:HD3	9:R:51:HIS:CE1	2.29	0.67
9:R:60:CYS:CA	9:R:63:CYS:HA	2.23	0.67
1:2:33:ALA:HB1	1:2:69:MET:HE3	1.76	0.67
1:6:119:GLU:HG2	1:6:182:ASN:HB2	1.76	0.67
11:l:221:THR:HG23	11:l:224:ASP:H	1.60	0.67
12:m:308:GLY:HA3	12:m:373:ALA:HB2	1.76	0.67
1:18:407:LEU:HD22	1:18:427:ILE:HG22	1.74	0.67
1:1:482:ASN:HD21	1:1:484:ASP:HB3	1.59	0.67
4:e:238:LEU:HD22	4:e:289:ILE:HG12	1.75	0.67
4:e:854:LYS:HG3	4:e:880:ALA:HA	1.74	0.67
1:6:62:ASP:HB2	1:7:132:SER:HB2	1.75	0.67
10:N:444:VAL:HG13	10:N:455:ILE:HD12	1.75	0.67
13:A:495:CYS:HB3	13:A:559:TYR:HB2	1.75	0.67
10:n:797:LEU:HD11	10:n:831:ASN:H	1.59	0.67
13:a:288:TRP:HB3	13:a:351:TYR:HB3	1.76	0.67
13:f:715:CYS:HB2	13:f:716:PRO:HD3	1.75	0.67
4:e:748:VAL:HG13	4:e:776:TYR:HD2	1.59	0.67
9:r:75:MET:HA	9:r:78:ARG:HD2	1.76	0.67
1:8:401:LEU:HB3	1:8:406:ASN:HD22	1.58	0.67
1:12:52:ILE:HG12	1:12:76:LEU:H	1.58	0.67
13:f:548:HIS:HE1	13:f:550:SER:OG	1.77	0.67
1:11:482:ASN:HD21	1:11:484:ASP:HB3	1.59	0.67
1:15:46:PRO:HG3	1:14:130:MET:HE2	1.76	0.67
1:1:615:LEU:HD22	1:1:639:LEU:HD21	1.77	0.67
4:E:335:ILE:HG23	4:E:341:LEU:HB3	1.76	0.67
4:E:893:LEU:H	4:E:920:ASN:HB3	1.59	0.67
4:I:151:LEU:HD11	4:I:162:MET:HE1	1.77	0.67
8:Q:243:ARG:HB2	8:Q:250:GLU:HB2	1.76	0.67
1:5:492:LEU:HD22	1:5:554:ILE:HG23	1.76	0.67
10:n:444:VAL:HG13	10:n:455:ILE:HD12	1.75	0.67
13:a:495:CYS:HB3	13:a:559:TYR:HB2	1.75	0.67
1:16:138:LYS:HE3	1:16:285:THR:HB	1.77	0.67
4:I:478:ILE:HG13	4:I:528:LEU:HD21	1.77	0.67
4:I:605:ASN:HA	4:I:644:ASN:HB3	1.76	0.67
1:2:116:ILE:HD12	1:2:267:LEU:HD22	1.76	0.67
12:M:54:ALA:HB3	12:M:58:LYS:HB2	1.77	0.67
13:F:715:CYS:HB2	13:F:716:PRO:HD3	1.77	0.67
1:14:305:VAL:HG22	1:14:668:ILE:HG12	1.76	0.67
1:13:546:GLN:HG2	1:13:581:LEU:HD12	1.75	0.67
1:17:399:ALA:H	1:17:591:GLN:HE22	1.40	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:371:THR:HG22	4:i:460:ILE:HD11	1.76	0.67
10:N:630:LYS:HG3	10:N:659:CYS:HA	1.77	0.67
10:N:797:LEU:HD11	10:N:831:ASN:H	1.59	0.67
1:19:48:ILE:HD11	1:19:89:ASP:HB3	1.76	0.67
1:18:181:MET:HE1	1:18:263:LEU:HD12	1.77	0.67
4:E:148:MET:HA	4:E:273:LEU:HB2	1.75	0.67
6:K:7:GLN:HA	6:K:13:ILE:HA	1.76	0.67
2:c:22:VAL:HG23	2:c:24:PRO:HD2	1.77	0.67
3:d:12:PRO:HD2	3:d:27:PRO:HG3	1.76	0.67
4:i:478:ILE:HG13	4:i:528:LEU:HD21	1.77	0.67
4:i:885:ASN:HD21	13:f:814:ASP:H	1.43	0.67
12:M:308:GLY:HA3	12:M:373:ALA:HB2	1.76	0.67
4:I:885:ASN:HD21	13:F:814:ASP:H	1.43	0.67
4:i:605:ASN:HA	4:i:644:ASN:HB3	1.76	0.67
1:16:42:ILE:HD12	1:16:93:VAL:HG22	1.77	0.67
4:e:681:PHE:HB3	4:e:710:ILE:HD11	1.76	0.67
4:i:371:THR:HG21	4:i:503:LEU:HD21	1.76	0.67
1:5:26:THR:HA	1:5:75:ALA:O	1.94	0.67
12:M:309:ARG:HG2	12:M:340:TYR:HD2	1.60	0.67
4:E:748:VAL:HG13	4:E:776:TYR:HD2	1.59	0.67
1:2:52:ILE:HG12	1:2:75:ALA:HA	1.78	0.67
1:8:39:SER:HB2	1:8:66:TRP:HB3	1.77	0.67
13:F:548:HIS:HE1	13:F:550:SER:OG	1.77	0.67
4:e:893:LEU:H	4:e:920:ASN:HB3	1.59	0.66
12:M:268:PRO:HD2	12:M:299:MET:HG2	1.77	0.66
13:A:1116:LEU:HB3	13:A:1119:ILE:HD11	1.77	0.66
13:F:1024:ILE:HD12	13:F:1052:LEU:HD22	1.77	0.66
10:n:271:VAL:HG12	10:n:273:HIS:H	1.60	0.66
10:n:630:LYS:HG3	10:n:659:CYS:HA	1.76	0.66
12:m:207:LEU:HB3	12:m:225:LEU:HD22	1.77	0.66
13:a:1116:LEU:HB3	13:a:1119:ILE:HD11	1.77	0.66
13:f:263:VAL:HG23	13:f:278:VAL:HG11	1.76	0.66
14:g:154:GLU:HG2	14:g:155:PRO:HD3	1.77	0.66
1:3:623:PRO:HG2	1:3:631:LEU:HG	1.76	0.66
10:N:141:PRO:HG2	10:N:144:GLU:HG2	1.77	0.66
10:N:728:LEU:HG	10:N:732:GLY:HA3	1.77	0.66
1:Z:316:PHE:HD2	1:Z:664:ALA:HB3	1.60	0.66
1:6:138:LYS:HE3	1:6:285:THR:HB	1.76	0.66
11:L:221:THR:HG23	11:L:224:ASP:H	1.60	0.66
1:19:9:LEU:HB2	1:19:27:LEU:HD11	1.77	0.66
1:5:41:THR:HB	1:5:64:VAL:HB	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:b:468:GLN:HE21	14:b:489:ASN:HD21	1.42	0.66
1:14:302:PRO:HG3	1:14:611:LEU:HA	1.77	0.66
6:K:65:HIS:HA	6:K:69:PRO:HG2	1.76	0.66
4:i:245:LEU:HB3	4:i:261:SER:HB3	1.76	0.66
13:a:342:ARG:HH21	13:a:361:ALA:HB1	1.60	0.66
1:15:514:THR:HG22	1:15:533:THR:HG22	1.76	0.66
9:R:70:LEU:HD23	9:R:75:MET:HG3	1.78	0.66
4:i:728:LEU:HB2	4:i:756:LEU:HD21	1.78	0.66
8:q:255:ILE:HA	8:q:260:ASP:H	1.60	0.66
1:z:119:GLU:HB2	1:z:182:ASN:HB2	1.76	0.66
1:16:422:LEU:HB3	1:16:454:GLN:HE21	1.61	0.66
1:18:213:TRP:HE3	1:18:224:VAL:HG11	1.59	0.66
2:C:22:VAL:HG23	2:C:24:PRO:HD2	1.77	0.66
1:Z:14:PRO:HB3	1:Z:108:VAL:HB	1.76	0.66
1:z:465:MET:HE1	1:z:582:GLU:HB2	1.77	0.66
1:z:610:VAL:HG22	1:z:615:LEU:HD22	1.77	0.66
1:8:463:TRP:CZ3	1:8:464:LEU:HG	2.30	0.66
1:8:513:VAL:HG21	1:8:625:ILE:HD11	1.78	0.66
1:9:516:PHE:HB3	1:9:519:ILE:HB	1.76	0.66
1:15:20:MET:HG2	1:15:114:ILE:O	1.95	0.66
1:16:119:GLU:HG3	1:16:182:ASN:H	1.61	0.66
8:q:243:ARG:HB2	8:q:250:GLU:HB2	1.77	0.66
1:z:319:SER:HB2	1:z:649:ILE:HG23	1.78	0.66
1:12:53:SER:HB2	1:12:67:ARG:HH22	1.60	0.66
8:P:367:PRO:HB2	8:P:596:ARG:HH22	1.59	0.66
13:A:1008:VAL:HG13	13:A:1036:GLY:HA3	1.78	0.66
14:B:535:THR:HG22	14:B:547:GLN:HG3	1.78	0.66
12:m:54:ALA:HB3	12:m:58:LYS:HB2	1.78	0.66
12:m:309:ARG:HG2	12:m:340:TYR:HD2	1.61	0.66
1:14:42:ILE:HG22	1:14:93:VAL:HG13	1.77	0.66
1:13:478:THR:HG21	1:13:489:ARG:HG2	1.77	0.66
1:18:223:LEU:HD21	1:18:226:GLY:HA3	1.78	0.66
4:E:263:LEU:HD22	4:E:275:LEU:HD11	1.78	0.66
9:R:43:HIS:CE1	9:R:56:ALA:HB1	2.31	0.66
4:i:94:PRO:O	4:i:98:ARG:HG2	1.96	0.66
1:12:116:ILE:HD12	1:12:267:LEU:HD22	1.78	0.66
12:M:207:LEU:HB3	12:M:225:LEU:HD22	1.76	0.66
13:f:1024:ILE:HD12	13:f:1052:LEU:HD22	1.77	0.66
4:E:681:PHE:HB3	4:E:710:ILE:HD11	1.76	0.66
4:I:94:PRO:O	4:I:98:ARG:HG2	1.96	0.66
1:z:138:LYS:HA	1:z:287:MET:HE1	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:m:320:ARG:HB2	12:m:357:PRO:HA	1.77	0.66
13:f:283:VAL:HB	13:f:288:TRP:HZ2	1.61	0.66
13:f:923:ASN:HA	13:f:952:HIS:HB3	1.78	0.66
1:Z:605:MET:HE1	1:Z:617:ILE:HG23	1.78	0.65
1:7:617:ILE:O	1:7:648:PHE:HA	1.97	0.65
1:9:2:SER:HA	1:9:18:LEU:HD12	1.77	0.65
11:L:101:TRP:CD1	11:L:145:SER:HB3	2.25	0.65
1:18:119:GLU:HB2	1:18:182:ASN:HB2	1.77	0.65
8:Q:255:ILE:HA	8:Q:260:ASP:H	1.59	0.65
4:i:310:HIS:CD2	4:i:316:ARG:HB3	2.26	0.65
8:q:239:ILE:HA	8:q:253:GLY:HA2	1.78	0.65
12:M:320:ARG:HB2	12:M:357:PRO:HA	1.78	0.65
8:p:449:PRO:HA	1:18:311:LEU:HD21	1.78	0.65
8:p:718:GLU:HB3	8:p:782:ARG:HE	1.60	0.65
1:1:42:ILE:HG22	1:1:67:ARG:HH22	1.60	0.65
4:I:728:LEU:HB2	4:I:756:LEU:HD21	1.78	0.65
5:j:254:HIS:CE1	5:j:256:CYS:HB2	2.31	0.65
9:r:60:CYS:CA	9:r:63:CYS:HA	2.23	0.65
1:4:302:PRO:HG3	1:4:611:LEU:HA	1.78	0.65
1:7:90:LYS:HD2	1:7:92:LEU:HD21	1.78	0.65
14:b:484:LEU:HG	14:b:516:LEU:HD13	1.78	0.65
14:b:535:THR:HG22	14:b:547:GLN:HG3	1.79	0.65
7:O:62:PHE:HB3	8:P:745:VAL:HG21	1.77	0.65
1:2:297:PRO:HA	1:2:409:VAL:HB	1.77	0.65
11:L:8:GLN:HG2	11:L:17:GLY:HA3	1.79	0.65
11:l:300:MET:HG3	11:l:301:ALA:H	1.60	0.65
1:19:541:LYS:HA	1:19:544:ARG:HG3	1.79	0.65
4:E:238:LEU:HD21	4:E:263:LEU:HD12	1.77	0.65
2:H:35:TRP:CH2	2:H:70:TRP:HA	2.32	0.65
1:Z:164:ASP:HA	1:Z:168:PHE:HE2	1.62	0.65
4:e:238:LEU:HD21	4:e:263:LEU:HD12	1.78	0.65
6:k:78:LYS:HE3	6:k:81:ARG:HH12	1.61	0.65
7:o:62:PHE:HB3	8:p:745:VAL:HG21	1.77	0.65
1:3:30:SER:HA	1:3:33:ALA:HB3	1.79	0.65
1:6:50:ILE:HB	1:6:57:ILE:HB	1.78	0.65
10:n:608:LYS:HE2	10:n:610:ILE:HD11	1.78	0.65
1:18:119:GLU:HB3	1:18:128:LEU:HD12	1.77	0.65
4:I:245:LEU:HB3	4:I:261:SER:HB3	1.76	0.65
9:r:43:HIS:CE1	9:r:56:ALA:HB1	2.31	0.65
1:5:514:THR:HG22	1:5:533:THR:HG22	1.76	0.65
10:N:608:LYS:HE2	10:N:610:ILE:HD11	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:8:GLN:HG2	11:l:17:GLY:HA3	1.79	0.65
12:m:268:PRO:HD2	12:m:299:MET:HG2	1.77	0.65
13:a:357:LEU:HG	13:a:362:LEU:HD23	1.79	0.65
1:1:584:LEU:HD21	1:1:593:SER:HB3	1.79	0.65
5:J:442:VAL:HG12	5:J:464:ILE:HG21	1.78	0.65
1:Z:197:LEU:HD13	1:Z:237:PHE:CE2	2.31	0.65
6:k:7:GLN:HA	6:k:13:ILE:HA	1.79	0.65
1:4:679:LYS:HD3	1:5:101:GLU:HG3	1.78	0.65
1:6:268:VAL:HG22	1:6:280:PRO:HB3	1.79	0.65
1:9:9:LEU:HB2	1:9:27:LEU:HD11	1.79	0.65
1:19:2:SER:HA	1:19:18:LEU:HD12	1.79	0.65
4:I:310:HIS:CD2	4:I:316:ARG:HB3	2.26	0.65
1:z:366:ASP:OD1	1:z:390:ILE:HA	1.97	0.65
1:4:115:GLU:HB3	1:4:186:GLU:HB2	1.78	0.65
1:5:345:LEU:HA	1:5:349:MET:HE2	1.79	0.65
10:N:885:PRO:HA	10:N:915:LYS:HG2	1.78	0.65
14:G:154:GLU:HG2	14:G:155:PRO:HD3	1.77	0.65
14:b:295:LEU:HG	14:b:571:ARG:HA	1.79	0.65
1:11:209:THR:HG21	1:11:261:ILE:HG21	1.79	0.65
1:19:40:PHE:HB3	1:19:69:MET:SD	2.36	0.65
1:17:617:ILE:O	1:17:648:PHE:HA	1.96	0.65
2:C:72:CYS:HA	4:E:12:TRP:CH2	2.32	0.65
4:I:181:SER:H	4:I:223:LYS:HB3	1.61	0.65
1:7:302:PRO:HG3	1:7:611:LEU:HA	1.79	0.65
13:A:357:LEU:HG	13:A:362:LEU:HD23	1.79	0.65
4:E:44:THR:HA	4:E:47:LYS:HE2	1.78	0.65
1:Z:7:LEU:HD12	1:Z:77:VAL:HG21	1.77	0.65
1:z:42:ILE:HG13	1:z:93:VAL:HG22	1.79	0.65
1:3:478:THR:HG21	1:3:489:ARG:HG2	1.77	0.65
1:4:42:ILE:HG22	1:4:93:VAL:HG13	1.78	0.65
1:6:581:LEU:HB3	1:6:596:LEU:HB3	1.79	0.65
1:15:345:LEU:HA	1:15:349:MET:HE2	1.79	0.65
4:I:198:SER:HB3	4:I:201:GLU:HG3	1.79	0.64
4:I:868:LYS:HB3	4:I:870:LYS:HE3	1.79	0.64
8:q:238:GLU:HG3	8:q:256:ARG:HD3	1.79	0.64
8:P:354:PRO:HB2	8:P:356:THR:HG23	1.79	0.64
13:A:342:ARG:HH21	13:A:361:ALA:HB1	1.60	0.64
1:11:584:LEU:HD21	1:11:593:SER:HB3	1.79	0.64
1:1:209:THR:HG21	1:1:261:ILE:HG21	1.78	0.64
4:i:137:LEU:HD21	4:i:274:LEU:HB2	1.79	0.64
1:6:422:LEU:HB3	1:6:454:GLN:HE21	1.61	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:349:MET:HE3	1:9:364:ILE:HG12	1.79	0.64
1:9:541:LYS:HA	1:9:544:ARG:HG3	1.79	0.64
14:B:484:LEU:HG	14:B:516:LEU:HD13	1.78	0.64
13:F:283:VAL:HB	13:F:288:TRP:HZ2	1.61	0.64
1:11:24:GLU:HB2	1:11:78:ARG:HH21	1.62	0.64
1:16:581:LEU:HB3	1:16:596:LEU:HB3	1.78	0.64
1:17:51:HIS:HB2	1:17:76:LEU:HB2	1.77	0.64
1:17:279:ILE:HD12	1:17:280:PRO:HD2	1.79	0.64
1:3:50:ILE:O	1:3:57:ILE:HB	1.98	0.64
1:4:48:ILE:HD11	1:4:89:ASP:HB3	1.78	0.64
1:12:37:CYS:HA	1:12:97:CYS:HA	1.79	0.64
13:a:476:LYS:HE3	13:a:527:LEU:HA	1.79	0.64
1:11:140:TRP:CD1	1:11:148:GLY:HA3	2.33	0.64
1:11:431:PHE:HB2	1:11:460:PHE:HB2	1.80	0.64
4:i:198:SER:HB3	4:i:201:GLU:HG3	1.79	0.64
4:i:612:GLN:HA	4:i:615:MET:HB3	1.79	0.64
1:3:349:MET:HB3	1:3:364:ILE:HD11	1.78	0.64
13:A:476:LYS:HE3	13:A:527:LEU:HA	1.79	0.64
14:B:468:GLN:HE21	14:B:489:ASN:HD21	1.42	0.64
13:F:938:LEU:HD22	13:F:973:LEU:HD11	1.80	0.64
1:1:431:PHE:HB2	1:1:460:PHE:HB2	1.79	0.64
4:E:285:MET:HA	4:E:288:ARG:HG2	1.80	0.64
4:I:137:LEU:HD21	4:I:274:LEU:HB2	1.80	0.64
4:I:221:PRO:HB3	4:I:268:LEU:HD22	1.79	0.64
1:Z:9:LEU:HD12	1:Z:29:ILE:HA	1.79	0.64
1:4:465:MET:HB3	1:4:597:PHE:HB3	1.80	0.64
1:7:453:VAL:HG23	1:7:454:GLN:HG3	1.80	0.64
14:B:453:CYS:H	14:B:461:VAL:HG13	1.63	0.64
1:16:47:ARG:HD2	1:16:81:ALA:HB3	1.78	0.64
8:Q:239:ILE:HA	8:Q:253:GLY:HA2	1.79	0.64
4:i:764:CYS:O	4:i:768:CYS:CB	2.44	0.64
13:F:1008:VAL:HG13	13:F:1036:GLY:HA3	1.80	0.64
11:l:286:VAL:HG21	11:l:326:VAL:HG13	1.78	0.64
1:19:27:LEU:HB3	1:19:75:ALA:HB3	1.79	0.64
1:14:577:GLN:HE22	1:14:605:MET:H	1.46	0.64
1:13:212:TYR:HB3	1:13:221:TYR:HB3	1.80	0.64
1:18:27:LEU:O	1:18:75:ALA:HB3	1.97	0.64
1:1:24:GLU:HB2	1:1:78:ARG:HH21	1.62	0.64
1:Z:237:PHE:HE1	1:Z:243:GLU:HG3	1.63	0.64
1:z:296:MET:SD	1:z:297:PRO:HD2	2.37	0.64
13:A:834:LEU:HD21	13:A:836:LEU:HG	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:245:ILE:HG12	13:f:388:LEU:HB3	1.80	0.64
1:16:425:VAL:HG23	1:16:454:GLN:HB2	1.80	0.64
4:I:764:CYS:O	4:I:768:CYS:CB	2.44	0.64
5:J:109:CYS:HB3	5:J:441:ASP:HB2	1.80	0.64
4:e:285:MET:HA	4:e:288:ARG:HG2	1.79	0.64
5:j:47:GLN:O	5:j:50:TRP:C	2.41	0.64
1:z:367:THR:HG22	1:z:391:ARG:HB3	1.79	0.64
1:5:40:PHE:HA	1:5:94:SER:O	1.97	0.64
1:6:336:GLU:HA	1:6:344:TRP:HE1	1.63	0.64
1:6:478:THR:HA	1:6:644:LEU:HD21	1.78	0.64
1:8:401:LEU:HD21	1:8:467:GLY:HA3	1.79	0.64
1:12:419:ASP:HB3	1:12:421:PRO:HD3	1.79	0.64
8:P:5:VAL:HG12	8:P:69:ILE:HB	1.78	0.64
13:F:923:ASN:HA	13:F:952:HIS:HB3	1.78	0.64
13:f:1008:VAL:HG13	13:f:1036:GLY:HA3	1.80	0.64
14:g:372:ASP:HB2	14:g:381:LYS:HD2	1.80	0.64
1:13:349:MET:HB3	1:13:364:ILE:HD11	1.78	0.64
4:I:863:HIS:CD2	4:I:892:GLN:HG3	2.33	0.64
1:Z:50:ILE:HG12	1:Z:77:VAL:HA	1.79	0.64
4:i:863:HIS:CD2	4:i:892:GLN:HG3	2.32	0.64
5:j:442:VAL:HG12	5:j:464:ILE:HG21	1.79	0.64
1:5:157:PRO:HG3	1:5:385:GLY:H	1.63	0.64
1:7:399:ALA:H	1:7:591:GLN:HE22	1.44	0.64
13:f:1129:ARG:HA	13:f:1132:ARG:HE	1.63	0.64
1:11:9:LEU:HD12	1:11:29:ILE:HA	1.80	0.64
1:19:138:LYS:HD3	1:19:285:THR:HB	1.79	0.64
1:16:478:THR:HA	1:16:644:LEU:HD21	1.78	0.64
1:13:514:THR:HA	1:13:533:THR:HA	1.79	0.64
1:17:453:VAL:HG23	1:17:454:GLN:HG3	1.79	0.64
4:E:310:HIS:HD2	4:E:316:ARG:HD3	1.62	0.64
4:i:181:SER:H	4:i:223:LYS:HB3	1.61	0.64
4:i:221:PRO:HB3	4:i:268:LEU:HD22	1.79	0.64
1:z:382:LEU:HD11	1:z:388:TYR:HD1	1.62	0.64
1:2:95:TYR:HB2	1:2:105:ALA:HB3	1.78	0.64
11:L:300:MET:HG3	11:L:301:ALA:H	1.62	0.64
13:F:1129:ARG:HA	13:F:1132:ARG:HE	1.63	0.64
10:n:296:CYS:HA	10:n:302:LEU:HD21	1.80	0.64
1:14:50:ILE:HG12	1:14:77:VAL:HG22	1.79	0.64
1:17:200:HIS:CG	1:18:433:PRO:HG2	2.33	0.64
4:E:77:ILE:HG22	4:E:79:ARG:H	1.63	0.63
8:q:284:ARG:HA	8:q:293:PRO:HB2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:340:ARG:HH11	1:5:344:TRP:HB2	1.63	0.63
1:8:7:LEU:HD12	1:8:25:ILE:HG21	1.80	0.63
1:8:50:ILE:HB	1:8:57:ILE:HB	1.80	0.63
13:F:357:LEU:HG	13:F:362:LEU:HD12	1.80	0.63
1:19:377:PRO:HA	1:19:380:TYR:HD2	1.63	0.63
1:18:197:LEU:HD12	1:18:234:LEU:HD11	1.78	0.63
4:I:612:GLN:HA	4:I:615:MET:HB3	1.79	0.63
1:Z:514:THR:HG22	1:Z:533:THR:HG22	1.80	0.63
4:e:263:LEU:HD22	4:e:275:LEU:HD11	1.80	0.63
1:4:267:LEU:HB3	1:4:282:TYR:HB3	1.81	0.63
1:12:224:VAL:HG23	1:12:225:VAL:HG23	1.79	0.63
13:F:483:LEU:HD12	13:F:614:LEU:HB3	1.80	0.63
1:16:336:GLU:HA	1:16:344:TRP:HE1	1.63	0.63
1:14:91:VAL:HB	1:14:109:LEU:HB3	1.81	0.63
1:18:50:ILE:O	1:18:57:ILE:HB	1.97	0.63
4:E:720:LYS:HA	4:E:748:VAL:HB	1.79	0.63
6:k:65:HIS:HA	6:k:69:PRO:HG2	1.80	0.63
1:5:304:GLU:HG2	1:5:330:GLN:HB3	1.80	0.63
1:12:356:ALA:HB3	1:12:359:LYS:H	1.63	0.63
11:L:286:VAL:HG21	11:L:326:VAL:HG13	1.80	0.63
14:g:484:LEU:HG	14:g:516:LEU:HD13	1.81	0.63
1:18:207:LYS:HA	1:18:227:PRO:HA	1.79	0.63
4:I:119:ASP:HA	4:I:123:GLU:HB2	1.81	0.63
8:Q:238:GLU:HG3	8:Q:256:ARG:HD3	1.79	0.63
5:j:109:CYS:HB3	5:j:441:ASP:HB2	1.80	0.63
14:b:317:LYS:HD3	14:b:331:PRO:HG3	1.80	0.63
1:19:213:TRP:CD1	1:19:245:PHE:HA	2.33	0.63
1:15:157:PRO:HG3	1:15:385:GLY:H	1.64	0.63
1:18:514:THR:HA	1:18:533:THR:HA	1.80	0.63
4:E:401:ALA:HB1	4:E:454:GLN:HG3	1.80	0.63
4:e:720:LYS:HA	4:e:748:VAL:HB	1.79	0.63
1:z:615:LEU:HD12	1:z:639:LEU:HD13	1.81	0.63
1:5:20:MET:HE1	1:5:282:TYR:CG	2.32	0.63
1:9:50:ILE:HB	1:9:57:ILE:HB	1.81	0.63
13:A:272:PHE:HB3	13:A:275:MET:HB3	1.81	0.63
10:n:885:PRO:HA	10:n:915:LYS:HG2	1.79	0.63
12:m:67:ASP:HB3	12:m:73:MET:HE1	1.80	0.63
13:f:335:HIS:HA	13:f:338:MET:HE1	1.80	0.63
1:15:101:GLU:HG3	1:14:679:LYS:HD3	1.80	0.63
1:14:95:TYR:HB2	1:14:105:ALA:HB3	1.79	0.63
1:13:9:LEU:HD12	1:13:29:ILE:HA	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:398:CYS:HB3	4:e:461:PHE:HB2	1.80	0.63
1:3:212:TYR:HB3	1:3:221:TYR:HB3	1.79	0.63
1:4:178:LEU:HD13	1:4:248:GLU:HB3	1.80	0.63
13:F:857:THR:HG22	13:F:859:LEU:H	1.62	0.63
13:f:326:LEU:HD13	13:f:380:LEU:HD22	1.79	0.63
13:f:938:LEU:HD22	13:f:973:LEU:HD11	1.81	0.63
1:15:43:ARG:HG2	1:15:92:LEU:H	1.63	0.63
1:6:133:ASP:O	1:6:137:LYS:HG3	1.98	0.63
8:P:456:GLY:HA3	8:P:462:ALA:HA	1.81	0.63
8:P:570:PRO:HB2	8:P:578:LEU:HD11	1.80	0.63
13:F:473:LEU:HD21	13:F:483:LEU:HD11	1.81	0.63
14:G:534:ILE:HD11	14:G:554:VAL:HG21	1.81	0.63
13:f:818:LYS:HG2	13:f:848:MET:HE3	1.79	0.63
1:14:216:ARG:HB2	1:14:240:ARG:HE	1.64	0.63
1:1:140:TRP:CD1	1:1:148:GLY:HA3	2.33	0.63
4:E:398:CYS:HB3	4:E:461:PHE:HB2	1.81	0.63
1:Z:603:PRO:HG3	1:Z:656:LEU:HB2	1.81	0.63
4:e:401:ALA:HB1	4:e:454:GLN:HG3	1.81	0.63
1:z:504:GLN:HA	1:z:507:LYS:HD2	1.81	0.63
1:5:340:ARG:HA	1:5:370:VAL:HG11	1.81	0.63
1:6:119:GLU:HG3	1:6:182:ASN:H	1.63	0.63
10:n:889:VAL:H	10:n:916:SER:HB2	1.64	0.63
1:19:178:LEU:HD13	1:19:248:GLU:HB3	1.81	0.63
1:15:340:ARG:HA	1:15:370:VAL:HG11	1.80	0.63
1:14:309:ARG:HD2	1:14:333:LYS:HE3	1.81	0.63
1:17:296:MET:HE2	1:17:670:ARG:HG3	1.81	0.63
4:E:567:MET:SD	4:E:593:CYS:HA	2.39	0.63
4:I:122:LYS:HG3	4:I:168:LEU:HD22	1.81	0.63
5:J:47:GLN:O	5:J:50:TRP:C	2.41	0.63
1:Z:52:ILE:HA	1:Z:75:ALA:HA	1.81	0.63
1:Z:212:TYR:HB3	1:Z:221:TYR:HB3	1.79	0.63
4:e:77:ILE:HG22	4:e:79:ARG:H	1.63	0.63
1:z:581:LEU:HD22	1:z:596:LEU:HB3	1.81	0.63
1:z:615:LEU:HD11	1:z:644:LEU:HD23	1.80	0.63
1:3:3:PHE:HB2	1:3:281:LEU:HD13	1.80	0.63
1:5:424:ARG:HE	1:5:455:ALA:HB3	1.63	0.63
13:F:245:ILE:HG12	13:F:388:LEU:HB3	1.80	0.63
13:f:357:LEU:HG	13:f:362:LEU:HD12	1.79	0.63
13:f:947:ARG:HG2	13:f:975:HIS:HB2	1.81	0.63
1:19:676:LYS:HB2	1:19:679:LYS:HB2	1.80	0.63
1:14:178:LEU:HD13	1:14:248:GLU:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:14:465:MET:HB3	1:14:597:PHE:HB3	1.80	0.63
1:18:355:GLN:HG3	1:18:360:THR:HG22	1.81	0.63
1:Z:5:ASN:HD22	1:9:559:THR:HA	1.64	0.62
4:e:310:HIS:HD2	4:e:316:ARG:HD3	1.62	0.62
1:z:478:THR:HG21	1:z:489:ARG:HG2	1.81	0.62
1:4:43:ARG:HG3	1:4:63:THR:H	1.62	0.62
1:4:337:ASP:HB3	1:4:340:ARG:HG3	1.81	0.62
1:5:20:MET:HG2	1:5:114:ILE:O	1.98	0.62
1:8:431:PHE:HB2	1:8:460:PHE:CD1	2.34	0.62
8:P:421:ASN:HB3	8:P:463:TYR:HE2	1.62	0.62
13:f:716:PRO:HD2	13:f:719:THR:HA	1.80	0.62
1:19:490:LEU:HD23	1:19:572:ILE:HG12	1.81	0.62
1:1:9:LEU:HD21	1:1:27:LEU:HD11	1.81	0.62
4:I:188:CYS:HB3	4:I:234:MET:HG3	1.81	0.62
6:K:30:MET:HA	6:K:33:ASP:HB2	1.80	0.62
9:R:50:ARG:HB2	9:R:50:ARG:CZ	2.28	0.62
13:F:716:PRO:HD2	13:F:719:THR:HA	1.79	0.62
11:l:140:GLY:HA2	11:l:181:GLU:HG3	1.80	0.62
13:f:473:LEU:HD21	13:f:483:LEU:HD11	1.81	0.62
1:15:304:GLU:HG2	1:15:330:GLN:HB3	1.80	0.62
1:Z:311:LEU:HD23	13:f:794:LYS:HG2	1.82	0.62
2:h:58:ILE:HD13	2:h:78:VAL:HG21	1.81	0.62
4:i:868:LYS:HB3	4:i:870:LYS:HE3	1.79	0.62
6:k:16:VAL:HG22	6:k:59:ILE:HD11	1.81	0.62
1:2:419:ASP:HB3	1:2:421:PRO:HD3	1.80	0.62
1:5:586:ASN:HD22	1:5:658:ASN:HB3	1.64	0.62
11:L:140:GLY:HA2	11:L:181:GLU:HG3	1.80	0.62
14:G:372:ASP:HB2	14:G:381:LYS:HD2	1.82	0.62
10:n:164:PHE:HB3	10:n:210:THR:HB	1.80	0.62
8:p:570:PRO:HB2	8:p:578:LEU:HD11	1.80	0.62
12:m:30:ILE:HA	12:m:36:TYR:HA	1.80	0.62
12:m:385:PHE:HZ	12:m:408:PHE:HB3	1.65	0.62
1:16:268:VAL:HG22	1:16:280:PRO:HB3	1.81	0.62
1:13:140:TRP:CD1	1:13:148:GLY:HA3	2.34	0.62
5:J:346:PRO:HB3	5:J:359:CYS:HA	1.81	0.62
1:Z:323:LEU:HD11	1:Z:614:ASN:HB3	1.80	0.62
4:i:188:CYS:HB3	4:i:234:MET:HG3	1.81	0.62
1:z:482:ASN:HD22	1:z:485:GLN:HG2	1.63	0.62
1:6:425:VAL:HG23	1:6:454:GLN:HB2	1.81	0.62
1:9:377:PRO:HA	1:9:380:TYR:HD2	1.64	0.62
14:B:317:LYS:HD3	14:B:331:PRO:HG3	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:947:ARG:HG2	13:F:975:HIS:HB2	1.81	0.62
13:F:1012:LEU:HB2	13:F:1038:ASN:HD22	1.64	0.62
1:15:340:ARG:HH11	1:15:344:TRP:HB2	1.63	0.62
1:15:424:ARG:HE	1:15:455:ALA:HB3	1.62	0.62
1:13:3:PHE:HB2	1:13:281:LEU:HD13	1.80	0.62
2:H:58:ILE:HD13	2:H:78:VAL:HG21	1.81	0.62
4:e:635:ILE:HB	4:e:662:PHE:HE1	1.64	0.62
5:j:30:LYS:HE2	6:k:145:PHE:HA	1.82	0.62
10:N:296:CYS:HA	10:N:302:LEU:HD21	1.80	0.62
14:B:295:LEU:HG	14:B:571:ARG:HA	1.79	0.62
13:F:326:LEU:HD13	13:F:380:LEU:HD22	1.80	0.62
13:a:272:PHE:HB3	13:a:275:MET:HB3	1.81	0.62
14:b:453:CYS:H	14:b:461:VAL:HG13	1.63	0.62
1:13:308:CYS:HB2	1:13:345:LEU:HD22	1.81	0.62
6:k:30:MET:HA	6:k:33:ASP:HB2	1.80	0.62
1:3:51:HIS:HD2	1:3:56:VAL:HG22	1.65	0.62
1:3:502:PHE:CZ	1:3:623:PRO:HG3	2.34	0.62
1:4:216:ARG:HB2	1:4:240:ARG:HE	1.64	0.62
13:A:1053:LYS:HB3	13:A:1080:ALA:HA	1.80	0.62
12:m:131:GLN:HB3	12:m:250:LEU:HD12	1.80	0.62
1:13:431:PHE:H	1:13:460:PHE:HD1	1.46	0.62
1:1:379:LYS:HA	1:1:382:LEU:HD23	1.81	0.62
4:I:151:LEU:HB3	4:I:276:SER:HA	1.82	0.62
1:Z:431:PHE:HB2	1:Z:460:PHE:HB2	1.82	0.62
8:q:241:ARG:HD2	10:n:413:ASN:HD21	1.65	0.62
1:7:426:LEU:HB3	1:7:459:LEU:HD11	1.80	0.62
1:8:578:LEU:HD12	1:8:602:PHE:HE1	1.64	0.62
1:9:514:THR:HA	1:9:533:THR:HA	1.80	0.62
14:g:534:ILE:HD11	14:g:554:VAL:HG21	1.81	0.62
1:15:92:LEU:HD22	1:14:127:GLN:HG3	1.81	0.62
1:16:62:ASP:HB2	1:17:132:SER:HB2	1.82	0.62
1:14:54:SER:HB2	1:14:67:ARG:HH22	1.64	0.62
1:13:186:GLU:HG2	1:13:241:ARG:HB3	1.82	0.62
1:3:140:TRP:CD1	1:3:148:GLY:HA3	2.33	0.62
1:7:506:GLN:HG3	1:7:511:GLY:HA3	1.82	0.62
1:9:5:ASN:HD21	1:9:23:MET:HE3	1.64	0.62
12:M:385:PHE:HZ	12:M:408:PHE:HB3	1.65	0.62
13:a:980:MET:HA	13:a:1009:ASP:HB3	1.81	0.62
1:19:60:LYS:HE2	1:19:63:THR:HG22	1.80	0.62
4:E:51:ARG:H	4:E:51:ARG:HD3	1.64	0.62
4:i:119:ASP:HA	4:i:123:GLU:HB2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:271:VAL:HG12	10:N:273:HIS:H	1.64	0.62
1:16:346:GLN:HB2	1:16:665:SER:HB2	1.82	0.62
1:18:529:ARG:HH22	1:18:601:TYR:HA	1.65	0.62
1:2:83:SER:H	1:2:113:GLY:HA3	1.65	0.62
1:9:178:LEU:HD13	1:9:248:GLU:HB3	1.82	0.62
12:M:67:ASP:HB3	12:M:73:MET:HE1	1.82	0.62
8:p:456:GLY:HA3	8:p:462:ALA:HA	1.82	0.62
13:f:1012:LEU:HB2	13:f:1038:ASN:HD22	1.64	0.62
1:14:513:VAL:HG21	1:14:625:ILE:HG12	1.81	0.62
4:I:564:VAL:HG22	4:I:592:HIS:CE1	2.34	0.61
1:Z:144:MET:HB2	1:8:102:VAL:HG23	1.81	0.61
4:i:564:VAL:HG22	4:i:592:HIS:CE1	2.34	0.61
1:z:47:ARG:HD2	1:z:81:ALA:HB3	1.79	0.61
1:4:62:ASP:HB3	1:5:131:PRO:HA	1.82	0.61
1:6:47:ARG:HD2	1:6:81:ALA:HB3	1.82	0.61
1:6:473:MET:HE1	1:6:557:ASN:HB2	1.81	0.61
1:7:399:ALA:H	1:7:591:GLN:NE2	1.98	0.61
1:9:138:LYS:HD3	1:9:285:THR:HB	1.81	0.61
1:17:37:CYS:HA	1:17:97:CYS:HA	1.82	0.61
1:17:506:GLN:HG3	1:17:511:GLY:HA3	1.82	0.61
1:1:308:CYS:HA	1:1:334:VAL:HB	1.80	0.61
4:i:122:LYS:HG3	4:i:168:LEU:HD22	1.81	0.61
1:z:408:MET:HE1	1:z:469:MET:HB2	1.82	0.61
1:3:514:THR:HA	1:3:533:THR:HA	1.81	0.61
1:5:47:ARG:HB2	1:5:81:ALA:HB3	1.81	0.61
1:6:309:ARG:HB2	1:6:333:LYS:HG3	1.81	0.61
10:N:889:VAL:H	10:N:916:SER:HB2	1.65	0.61
12:M:131:GLN:HB3	12:M:250:LEU:HD12	1.80	0.61
13:A:1159:ASN:HB3	13:A:1162:LYS:HB2	1.82	0.61
13:F:705:LEU:C	13:F:707:SER:H	2.08	0.61
8:p:45:LEU:HB3	8:p:52:MET:HE2	1.82	0.61
8:p:308:CYS:HB3	8:p:311:CYS:HB3	1.81	0.61
12:m:192:LEU:O	12:m:196:THR:HG23	2.00	0.61
13:a:329:MET:HE2	13:a:354:MET:HE2	1.81	0.61
13:f:483:LEU:HD12	13:f:614:LEU:HB3	1.81	0.61
1:11:130:MET:HB2	1:13:43:ARG:HD3	1.81	0.61
1:19:201:THR:HB	1:19:263:LEU:HD13	1.82	0.61
1:15:42:ILE:HG22	1:15:93:VAL:HG22	1.82	0.61
1:18:3:PHE:HB2	1:18:281:LEU:HD23	1.82	0.61
1:1:460:PHE:HB3	1:1:557:ASN:HD21	1.64	0.61
4:E:764:CYS:O	4:E:768:CYS:HB2	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:75:MET:HA	9:R:78:ARG:HD2	1.81	0.61
5:j:69:PHE:HA	5:j:72:TYR:CE1	2.36	0.61
1:z:27:LEU:O	1:z:75:ALA:HB3	1.99	0.61
1:z:310:GLU:OE1	1:z:312:GLN:HG3	2.01	0.61
1:9:201:THR:HB	1:9:263:LEU:HD13	1.83	0.61
1:11:9:LEU:HD21	1:11:27:LEU:HD11	1.81	0.61
1:11:460:PHE:HB3	1:11:557:ASN:HD21	1.65	0.61
1:15:38:LYS:HB2	1:15:98:PRO:HA	1.81	0.61
1:15:586:ASN:HD22	1:15:658:ASN:HB3	1.64	0.61
1:16:309:ARG:HB2	1:16:333:LYS:HG3	1.81	0.61
1:18:140:TRP:CD1	1:18:148:GLY:HA3	2.34	0.61
1:1:82:PRO:HB3	1:1:186:GLU:OE2	2.01	0.61
4:e:227:ILE:HG12	4:e:274:LEU:HD13	1.83	0.61
4:e:764:CYS:O	4:e:768:CYS:HB2	2.00	0.61
4:i:904:GLU:HG3	9:r:57:TRP:CG	2.35	0.61
1:4:309:ARG:HD2	1:4:333:LYS:HE3	1.81	0.61
1:6:42:ILE:HD12	1:6:93:VAL:HG22	1.83	0.61
1:6:60:LYS:HB3	1:7:132:SER:HB3	1.83	0.61
1:9:676:LYS:HB2	1:9:679:LYS:HB2	1.81	0.61
13:F:856:THR:HG23	13:F:858:ARG:HH22	1.64	0.61
13:a:1159:ASN:HB3	13:a:1162:LYS:HB2	1.82	0.61
1:11:3:PHE:HB3	1:11:281:LEU:HD22	1.80	0.61
1:13:119:GLU:HG2	1:13:131:PRO:HB3	1.83	0.61
4:E:463:MET:HE3	4:E:512:LEU:HB3	1.82	0.61
4:E:812:LEU:HB3	4:E:839:CYS:HB3	1.81	0.61
4:I:237:ASP:H	4:I:256:SER:HB2	1.65	0.61
4:I:567:MET:HE3	4:I:589:CYS:HB3	1.80	0.61
4:e:198:SER:HB2	4:e:252:LYS:HG2	1.81	0.61
1:6:69:MET:HE3	1:6:71:HIS:HB2	1.82	0.61
1:6:346:GLN:HB2	1:6:665:SER:HB2	1.82	0.61
12:M:207:LEU:HD13	12:M:225:LEU:HB3	1.82	0.61
10:n:920:MET:HB2	10:n:949:LEU:HG	1.81	0.61
1:1:52:ILE:O	1:1:55:SER:HB3	1.99	0.61
4:E:635:ILE:HB	4:E:662:PHE:HE1	1.63	0.61
6:K:68:ASP:HB3	6:K:69:PRO:HD3	1.82	0.61
1:z:61:GLU:HB2	1:18:130:MET:SD	2.41	0.61
1:8:299:THR:HG23	1:8:477:PRO:HB3	1.83	0.61
13:A:980:MET:HA	13:A:1009:ASP:HB3	1.81	0.61
13:F:291:LYS:HE3	13:F:349:PRO:HD3	1.83	0.61
1:15:52:ILE:HD12	1:15:75:ALA:HB2	1.81	0.61
1:14:337:ASP:HB3	1:14:340:ARG:HG3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:632:GLU:HA	1:z:635:VAL:HG12	1.82	0.61
1:7:140:TRP:HD1	1:7:148:GLY:HA3	1.66	0.61
1:9:48:ILE:HD11	1:9:89:ASP:HB3	1.82	0.61
1:9:490:LEU:HD23	1:9:572:ILE:HG12	1.82	0.61
1:19:614:ASN:HB3	1:19:645:LYS:HE2	1.82	0.61
1:1:255:PRO:HG3	1:1:446:GLU:OE2	2.00	0.61
8:Q:220:MET:HB3	8:Q:236:ASP:HA	1.82	0.61
13:f:806:ASN:HA	13:f:835:ARG:HB2	1.83	0.61
1:16:368:PRO:HD2	1:16:392:GLN:HA	1.83	0.61
1:17:138:LYS:HG2	1:17:285:THR:HB	1.82	0.61
1:18:585:THR:HG22	1:18:586:ASN:H	1.66	0.61
4:E:227:ILE:HG12	4:E:274:LEU:HD13	1.83	0.61
4:E:874:VAL:HG21	4:E:898:ILE:HG12	1.82	0.61
1:z:515:LEU:HD12	1:z:623:PRO:HD3	1.82	0.61
1:3:624:LYS:CA	1:3:629:CYS:HA	2.31	0.61
1:6:368:PRO:HD2	1:6:392:GLN:HA	1.83	0.61
11:L:141:GLY:H	15:L:501:GDP:H4'	1.65	0.61
10:n:261:MET:HB3	10:n:519:ARG:HH12	1.66	0.61
13:a:1053:LYS:HB3	13:a:1080:ALA:HA	1.82	0.61
1:11:255:PRO:HG3	1:11:446:GLU:OE2	2.00	0.61
1:11:308:CYS:HA	1:11:334:VAL:HB	1.82	0.61
1:15:52:ILE:HD11	1:15:73:THR:HG22	1.82	0.61
4:I:748:VAL:HG13	4:I:776:TYR:HD2	1.65	0.61
4:I:861:TYR:HB3	4:I:863:HIS:HE1	1.66	0.61
4:I:910:PHE:HA	4:I:916:LEU:HD23	1.83	0.61
4:e:44:THR:O	4:e:48:LYS:HB2	2.01	0.61
4:e:463:MET:HE3	4:e:512:LEU:HB3	1.82	0.61
1:z:216:ARG:HD3	1:z:240:ARG:HD3	1.82	0.61
1:3:431:PHE:H	1:3:460:PHE:HD1	1.49	0.61
1:5:38:LYS:HB2	1:5:98:PRO:HA	1.83	0.61
13:A:562:LEU:HD21	13:A:611:LEU:HD13	1.83	0.61
11:l:141:GLY:H	15:l:501:GDP:H4'	1.66	0.61
13:a:1097:PHE:HB3	13:a:1102:MET:HE3	1.81	0.61
1:16:60:LYS:NZ	1:17:78:ARG:HD3	2.16	0.61
1:16:133:ASP:O	1:16:137:LYS:HG3	2.01	0.61
1:13:675:PHE:CE2	1:13:680:MET:HB3	2.35	0.61
6:K:30:MET:HE3	6:K:34:LEU:HD12	1.83	0.60
8:Q:241:ARG:HD2	10:N:413:ASN:HD21	1.65	0.60
1:Z:216:ARG:NH2	1:Z:237:PHE:HA	2.15	0.60
1:Z:301:MET:HE2	1:Z:301:MET:HA	1.83	0.60
1:z:548:THR:HG22	1:z:552:LYS:HE3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:414:LYS:HZ3	1:9:419:ASP:HB2	1.66	0.60
10:N:352:LYS:HG3	10:N:353:HIS:CE1	2.36	0.60
10:N:949:LEU:HD13	10:N:975:LEU:HD11	1.83	0.60
11:L:245:GLN:HE21	11:L:354:CYS:HA	1.66	0.60
12:M:192:LEU:O	12:M:196:THR:HG23	2.00	0.60
13:F:335:HIS:HA	13:F:338:MET:HE1	1.81	0.60
1:16:213:TRP:HA	1:16:244:ALA:O	2.02	0.60
1:13:50:ILE:O	1:13:57:ILE:HB	2.01	0.60
4:E:198:SER:HB2	4:E:252:LYS:HG2	1.82	0.60
4:I:226:PHE:HB2	4:I:273:LEU:HA	1.81	0.60
4:I:420:ASN:HA	4:I:471:PRO:HG2	1.83	0.60
5:J:428:LEU:HD22	5:J:448:MET:HG2	1.82	0.60
8:Q:205:ARG:HH12	8:Q:297:LEU:HB2	1.66	0.60
4:i:200:ALA:HB2	4:i:250:MET:HA	1.82	0.60
1:3:308:CYS:HB2	1:3:345:LEU:HD22	1.81	0.60
1:8:20:MET:HE2	1:8:282:TYR:CD2	2.36	0.60
1:8:79:MET:HG2	1:8:113:GLY:HA3	1.83	0.60
1:17:29:ILE:HD12	1:17:73:THR:HG22	1.82	0.60
4:E:207:TRP:CD1	4:E:209:SER:HG	2.18	0.60
4:I:238:LEU:HD13	4:I:285:MET:HA	1.83	0.60
5:J:109:CYS:HB2	5:J:442:VAL:HG13	1.83	0.60
7:O:60:TYR:CD1	7:O:61:PRO:HA	2.37	0.60
4:e:812:LEU:HB3	4:e:839:CYS:HB3	1.82	0.60
4:i:237:ASP:H	4:i:256:SER:HB2	1.65	0.60
4:i:748:VAL:HG13	4:i:776:TYR:HD2	1.65	0.60
1:z:314:GLN:HE22	1:z:664:ALA:H	1.47	0.60
13:F:980:MET:HA	13:F:1009:ASP:HB3	1.84	0.60
1:16:134:LYS:HA	1:16:137:LYS:HD2	1.83	0.60
1:14:267:LEU:HB3	1:14:282:TYR:HB3	1.81	0.60
1:14:512:ASN:HA	1:14:533:THR:HB	1.83	0.60
1:18:3:PHE:HZ	1:18:114:ILE:HB	1.65	0.60
4:I:200:ALA:HB2	4:I:250:MET:HA	1.82	0.60
1:3:9:LEU:HD12	1:3:29:ILE:HA	1.83	0.60
1:3:623:PRO:C	1:3:624:LYS:HG3	2.24	0.60
1:4:130:MET:HB2	1:5:61:GLU:HB3	1.83	0.60
1:4:446:GLU:HA	1:4:449:TYR:HB2	1.83	0.60
1:9:614:ASN:HB3	1:9:645:LYS:HE2	1.81	0.60
13:F:806:ASN:HA	13:F:835:ARG:HB2	1.82	0.60
13:F:919:LEU:HD21	13:F:921:LEU:HG	1.83	0.60
14:G:484:LEU:HG	14:G:516:LEU:HD13	1.82	0.60
10:n:116:VAL:HG22	10:n:158:LEU:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:11:297:PRO:HA	1:11:409:VAL:HB	1.83	0.60
1:14:48:ILE:HD11	1:14:89:ASP:HB3	1.82	0.60
1:13:624:LYS:HA	1:13:630:CYS:H	1.66	0.60
1:18:24:GLU:HA	1:18:77:VAL:O	2.02	0.60
4:I:818:LYS:HB2	4:I:844:ARG:HH12	1.66	0.60
1:Z:40:PHE:HB2	1:Z:95:TYR:HA	1.84	0.60
5:j:428:LEU:HD22	5:j:448:MET:HG2	1.83	0.60
1:5:465:MET:HE1	1:5:599:ARG:HA	1.82	0.60
1:19:414:LYS:HZ3	1:19:419:ASP:HB2	1.66	0.60
4:e:405:MET:HE1	4:e:455:GLU:HA	1.83	0.60
1:3:186:GLU:HG2	1:3:241:ARG:HB3	1.82	0.60
8:P:58:LEU:HD22	8:P:63:VAL:HG21	1.83	0.60
13:A:312:ILE:HD12	13:A:344:TRP:NE1	2.17	0.60
13:a:562:LEU:HD21	13:a:611:LEU:HD13	1.83	0.60
13:f:569:ASN:HA	13:f:572:PHE:HD2	1.66	0.60
1:17:302:PRO:HG3	1:17:611:LEU:HA	1.82	0.60
4:I:884:PRO:HD2	13:F:813:LYS:HZ1	1.67	0.60
2:c:133:ARG:HD3	3:d:65:LEU:HD11	1.84	0.60
1:z:46:PRO:HA	1:z:61:GLU:HB3	1.82	0.60
1:z:307:LEU:HD21	1:z:317:VAL:HG13	1.83	0.60
1:7:138:LYS:HG2	1:7:285:THR:HB	1.84	0.60
13:F:355:TYR:CE1	13:F:383:MET:HE2	2.36	0.60
1:11:65:VAL:HB	1:11:67:ARG:HH11	1.66	0.60
1:19:11:LEU:HG	1:19:32:CYS:HA	1.84	0.60
1:13:207:LYS:HA	1:13:227:PRO:HA	1.83	0.60
2:C:37:PRO:HG3	14:B:320:ASN:HD21	1.66	0.60
8:Q:223:TYR:H	8:Q:234:TRP:HB3	1.66	0.60
4:i:861:TYR:HB3	4:i:863:HIS:HE1	1.66	0.60
8:q:237:VAL:HG12	8:q:253:GLY:HA3	1.84	0.60
1:4:95:TYR:HB2	1:4:105:ALA:HB3	1.82	0.60
1:8:37:CYS:HA	1:8:97:CYS:HA	1.84	0.60
13:A:1054:GLN:HA	13:A:1054:GLN:NE2	2.15	0.60
13:f:919:LEU:HD21	13:f:921:LEU:HG	1.84	0.60
1:14:446:GLU:HA	1:14:449:TYR:HB2	1.83	0.60
1:13:51:HIS:HD2	1:13:56:VAL:HG22	1.65	0.60
2:c:72:CYS:HA	4:e:12:TRP:CH2	2.37	0.60
1:3:207:LYS:HA	1:3:227:PRO:HA	1.83	0.60
1:5:27:LEU:HB3	1:5:75:ALA:HB3	1.84	0.60
1:5:346:GLN:HB2	1:5:666:ALA:H	1.67	0.60
13:F:427:LEU:HG	13:F:461:LEU:HD12	1.83	0.60
13:F:548:HIS:CE1	13:F:550:SER:OG	2.54	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:805:LEU:HD21	13:F:807:LEU:HD23	1.82	0.60
13:a:312:ILE:HD12	13:a:344:TRP:NE1	2.17	0.60
13:f:427:LEU:HG	13:f:461:LEU:HD12	1.83	0.60
1:19:189:THR:HG23	1:19:238:GLU:HB3	1.84	0.60
1:15:79:MET:HE2	1:15:113:GLY:HA3	1.83	0.60
4:e:684:ILE:HG23	4:e:689:LEU:HD12	1.83	0.60
4:i:420:ASN:HA	4:i:471:PRO:HG2	1.83	0.60
5:j:152:LYS:HG3	5:j:153:LEU:N	2.15	0.60
1:z:9:LEU:HD12	1:z:29:ILE:HA	1.84	0.60
1:5:489:ARG:HD2	1:5:573:ILE:HG13	1.82	0.60
13:A:381:LYS:HD2	14:B:332:GLU:HG3	1.84	0.60
12:m:342:VAL:HB	12:m:346:PRO:HA	1.84	0.60
1:19:50:ILE:HB	1:19:57:ILE:HB	1.84	0.60
1:19:226:GLY:H	1:19:229:LYS:HD2	1.66	0.60
4:E:684:ILE:HG23	4:E:689:LEU:HD12	1.83	0.59
4:I:493:TRP:CD2	4:I:496:LEU:HD23	2.37	0.59
4:i:273:LEU:HD23	4:i:275:LEU:HD21	1.84	0.59
4:i:336:CYS:SG	4:i:345:VAL:HG21	2.41	0.59
1:z:308:CYS:HB2	1:z:345:LEU:HD22	1.84	0.59
1:2:45:SER:HB3	1:2:48:ILE:HB	1.83	0.59
1:3:355:GLN:HB3	1:3:677:TRP:HE1	1.67	0.59
10:N:215:TRP:O	10:N:219:VAL:HG23	2.02	0.59
1:17:463:TRP:CD1	1:17:553:CYS:HG	2.20	0.59
4:E:44:THR:O	4:E:48:LYS:HB2	2.01	0.59
2:c:37:PRO:HG3	14:b:320:ASN:HD21	1.67	0.59
14:B:392:GLN:HE22	14:B:433:ARG:HA	1.67	0.59
1:14:6:SER:HA	1:14:26:THR:HB	1.84	0.59
1:13:189:THR:HG23	1:13:192:LEU:HD23	1.84	0.59
4:E:465:LYS:HG2	4:E:521:SER:HB2	1.84	0.59
4:e:207:TRP:CD1	4:e:209:SER:HG	2.20	0.59
4:e:465:LYS:HG2	4:e:521:SER:HB2	1.84	0.59
1:z:279:ILE:HD12	1:z:280:PRO:HD2	1.83	0.59
1:3:581:LEU:HD13	1:3:596:LEU:HD13	1.84	0.59
1:3:610:VAL:HG22	1:3:615:LEU:HD22	1.82	0.59
1:5:181:MET:HE1	1:5:183:VAL:HG23	1.83	0.59
1:7:279:ILE:HD12	1:7:280:PRO:HD2	1.84	0.59
1:9:27:LEU:HB3	1:9:75:ALA:HB3	1.84	0.59
10:N:261:MET:HB3	10:N:519:ARG:HH12	1.66	0.59
10:N:918:ILE:HG13	10:N:919:GLN:HG3	1.83	0.59
11:L:318:ARG:HG2	11:L:361:LEU:HD12	1.84	0.59
8:p:56:HIS:HB2	8:p:61:TYR:HE2	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:a:689:LEU:HA	13:a:692:CYS:HB2	1.85	0.59
13:f:291:LYS:HE3	13:f:349:PRO:HD3	1.83	0.59
13:f:548:HIS:CE1	13:f:550:SER:OG	2.54	0.59
1:15:151:LEU:HD11	1:15:248:GLU:HA	1.84	0.59
1:16:124:ARG:HD3	1:16:678:TRP:CZ2	2.37	0.59
4:I:157:VAL:HG23	4:I:338:VAL:HG22	1.84	0.59
1:Z:237:PHE:CE1	1:Z:243:GLU:HG3	2.37	0.59
4:i:157:VAL:HG23	4:i:338:VAL:HG22	1.84	0.59
1:2:43:ARG:HD2	1:2:64:VAL:HG12	1.84	0.59
1:8:309:ARG:HH22	1:8:313:LEU:HB2	1.66	0.59
1:15:21:VAL:HG13	1:15:80:VAL:HA	1.83	0.59
1:15:346:GLN:HB2	1:15:666:ALA:H	1.66	0.59
1:17:27:LEU:HB3	1:17:75:ALA:HB3	1.83	0.59
1:6:124:ARG:HD3	1:6:678:TRP:CZ2	2.37	0.59
1:7:346:GLN:HA	1:7:667:ILE:HD11	1.84	0.59
10:N:711:LEU:HD21	10:N:746:LEU:HD22	1.85	0.59
13:A:278:VAL:HG22	13:A:320:LEU:HD23	1.85	0.59
12:m:207:LEU:HD13	12:m:225:LEU:HB3	1.83	0.59
13:a:372:THR:HG21	13:a:377:LEU:HD13	1.85	0.59
13:f:980:MET:HA	13:f:1009:ASP:HB3	1.84	0.59
1:19:307:LEU:HD11	1:19:664:ALA:HB1	1.84	0.59
1:15:20:MET:HE1	1:15:282:TYR:CG	2.37	0.59
1:18:463:TRP:NE1	1:18:553:CYS:HB3	2.18	0.59
5:j:346:PRO:HB3	5:j:359:CYS:HA	1.85	0.59
8:q:205:ARG:HH12	8:q:297:LEU:HB2	1.66	0.59
1:3:516:PHE:HB3	1:3:519:ILE:HB	1.83	0.59
1:3:675:PHE:CE2	1:3:680:MET:HB3	2.34	0.59
1:5:211:VAL:HB	1:5:225:VAL:HB	1.85	0.59
1:9:305:VAL:HG22	1:9:668:ILE:HG12	1.84	0.59
10:N:154:PRO:HB3	10:N:201:LEU:HD22	1.84	0.59
10:n:353:HIS:O	10:n:355:LEU:HG	2.02	0.59
1:15:489:ARG:HD2	1:15:573:ILE:HG13	1.82	0.59
4:E:739:ILE:HG21	4:E:746:LEU:HD23	1.84	0.59
4:i:493:TRP:CD2	4:i:496:LEU:HD23	2.37	0.59
5:j:109:CYS:HB2	5:j:442:VAL:HG13	1.85	0.59
1:5:140:TRP:HB2	1:5:287:MET:HG2	1.84	0.59
8:P:715:CYS:HB3	8:P:736:CYS:SG	2.42	0.59
10:n:86:GLN:HG2	10:n:212:SER:HA	1.83	0.59
12:m:113:VAL:HG23	12:m:151:LEU:HD12	1.85	0.59
13:a:254:GLY:HA3	16:a:1201:ADP:C8	2.37	0.59
14:b:392:GLN:HE22	14:b:433:ARG:HA	1.68	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:516:PHE:HB3	1:13:519:ILE:HB	1.85	0.59
4:E:738:SER:HA	4:E:741:MET:SD	2.43	0.59
4:I:486:LEU:HB3	4:I:545:ILE:HG12	1.85	0.59
4:I:501:PHE:HA	4:I:504:LEU:HD12	1.85	0.59
9:R:61:ARG:HH12	14:G:354:ASN:HA	1.68	0.59
4:e:657:LEU:HD23	4:e:662:PHE:HE2	1.68	0.59
4:e:738:SER:HA	4:e:741:MET:SD	2.43	0.59
4:e:874:VAL:HG21	4:e:898:ILE:HG12	1.83	0.59
4:i:818:LYS:HB2	4:i:844:ARG:HH12	1.67	0.59
5:j:259:PRO:HG3	5:j:286:CYS:SG	2.43	0.59
6:k:54:ILE:HG23	6:k:103:LEU:HD23	1.84	0.59
1:2:378:MET:HE3	1:2:378:MET:O	2.02	0.59
1:2:639:LEU:HD11	1:2:644:LEU:HD12	1.85	0.59
10:N:89:ALA:H	10:N:211:ARG:HH21	1.49	0.59
13:a:381:LYS:HD2	14:b:332:GLU:HG3	1.84	0.59
1:19:50:ILE:HG12	1:19:77:VAL:HG22	1.83	0.59
1:13:529:ARG:HE	1:13:656:LEU:HD13	1.68	0.59
1:18:541:LYS:HD3	1:18:544:ARG:HB2	1.85	0.59
1:1:52:ILE:HB	1:1:55:SER:HB3	1.85	0.59
4:I:336:CYS:SG	4:I:345:VAL:HG21	2.41	0.59
5:J:462:LEU:HB3	5:J:464:ILE:HD11	1.84	0.59
1:Z:211:VAL:HG22	1:Z:247:VAL:HG22	1.85	0.59
4:i:238:LEU:HD13	4:i:285:MET:HA	1.83	0.59
4:i:263:LEU:HB3	4:i:289:ILE:HG21	1.83	0.59
1:3:502:PHE:HE1	1:3:631:LEU:HD21	1.68	0.59
1:12:378:MET:O	1:12:378:MET:HE3	2.02	0.59
13:A:630:TRP:HE1	14:B:158:CYS:HB2	1.68	0.59
12:m:359:ARG:HH11	12:m:360:GLY:H	1.49	0.59
14:b:528:VAL:HG12	14:b:534:ILE:HG12	1.85	0.59
13:f:857:THR:HG22	13:f:859:LEU:H	1.67	0.59
1:17:41:THR:HA	1:17:65:VAL:O	2.03	0.59
4:e:345:VAL:HA	4:e:369:LEU:HD21	1.85	0.59
4:e:739:ILE:HG21	4:e:746:LEU:HD23	1.84	0.59
4:i:719:GLU:HA	4:i:746:LEU:HA	1.85	0.59
5:j:462:LEU:HB3	5:j:464:ILE:HD11	1.83	0.59
1:3:20:MET:HB3	1:3:23:MET:HE3	1.84	0.59
12:M:342:VAL:HB	12:M:346:PRO:HA	1.85	0.59
1:15:464:LEU:HD11	1:15:472:PHE:HB3	1.84	0.59
1:18:170:GLU:HB3	1:18:174:GLU:HG3	1.84	0.59
1:1:3:PHE:HB3	1:1:281:LEU:HD22	1.84	0.58
4:I:719:GLU:HA	4:I:746:LEU:HA	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:538:ASN:HB3	4:i:541:LEU:HB2	1.85	0.58
6:k:50:VAL:HG22	6:k:106:ALA:HB1	1.84	0.58
1:3:624:LYS:HA	1:3:629:CYS:HA	1.85	0.58
1:4:512:ASN:HA	1:4:533:THR:HB	1.83	0.58
1:5:151:LEU:HD11	1:5:248:GLU:HA	1.84	0.58
1:5:581:LEU:HB3	1:5:596:LEU:HD12	1.85	0.58
1:9:50:ILE:HG12	1:9:77:VAL:HG22	1.85	0.58
10:N:471:GLU:OE1	10:N:505:PHE:HD1	1.86	0.58
8:P:565:VAL:HG22	8:P:584:LEU:HG	1.85	0.58
13:A:233:PHE:CZ	13:A:245:ILE:HD12	2.38	0.58
13:F:569:ASN:HA	13:F:572:PHE:HD2	1.67	0.58
11:l:354:CYS:O	11:l:356:ILE:HG13	2.02	0.58
12:m:248:ALA:HB1	12:m:252:LYS:HB3	1.85	0.58
1:17:140:TRP:HD1	1:17:148:GLY:HA3	1.66	0.58
1:Z:620:PRO:HG3	1:Z:631:LEU:HB2	1.84	0.58
4:e:231:LEU:HB2	4:e:277:THR:HB	1.85	0.58
4:i:184:PHE:HA	4:i:206:GLU:HG3	1.85	0.58
4:i:486:LEU:HB3	4:i:545:ILE:HG12	1.85	0.58
4:i:774:LEU:HD21	4:i:777:LEU:HD13	1.85	0.58
9:r:39:TRP:HA	9:r:80:LEU:HD13	1.85	0.58
1:3:189:THR:HG23	1:3:192:LEU:HD23	1.84	0.58
1:6:118:LEU:HB2	1:6:131:PRO:HB3	1.85	0.58
1:7:86:VAL:HG13	1:7:191:ILE:HD11	1.85	0.58
12:M:248:ALA:HB1	12:M:252:LYS:HB3	1.85	0.58
13:F:726:LYS:HD3	13:F:727:PRO:HD2	1.86	0.58
10:n:763:LEU:HA	10:n:766:HIS:CE1	2.38	0.58
10:n:776:GLN:HB3	10:n:804:VAL:HG22	1.84	0.58
1:15:27:LEU:HB3	1:15:75:ALA:HB3	1.85	0.58
1:16:20:MET:HE1	1:16:282:TYR:CG	2.38	0.58
1:14:35:ASP:HA	1:14:69:MET:HE1	1.84	0.58
1:17:4:GLN:HG3	1:17:6:SER:H	1.68	0.58
1:17:140:TRP:CD1	1:17:148:GLY:HA3	2.39	0.58
2:C:133:ARG:HD3	3:D:65:LEU:HD11	1.85	0.58
4:I:774:LEU:HD21	4:I:777:LEU:HD13	1.85	0.58
1:4:181:MET:SD	1:4:245:PHE:HB2	2.44	0.58
1:5:616:GLY:HA2	1:5:647:THR:HB	1.85	0.58
10:N:776:GLN:HB3	10:N:804:VAL:HG22	1.84	0.58
12:M:359:ARG:HH11	12:M:360:GLY:H	1.49	0.58
14:B:452:ARG:HD2	14:B:461:VAL:HG21	1.85	0.58
13:F:666:LEU:HB3	13:F:692:CYS:HB3	1.85	0.58
13:a:233:PHE:CZ	13:a:245:ILE:HD12	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:a:630:TRP:HE1	14:b:158:CYS:HB2	1.68	0.58
1:11:211:VAL:HG22	1:11:247:VAL:HG22	1.84	0.58
1:13:45:SER:HB2	1:13:48:ILE:HB	1.84	0.58
1:18:427:ILE:HD11	1:18:458:GLU:HG2	1.86	0.58
4:E:309:PHE:HB3	4:E:319:ALA:HB1	1.86	0.58
4:e:221:PRO:HB2	4:e:270:GLU:HB2	1.86	0.58
4:i:367:THR:HB	4:i:499:PHE:HA	1.85	0.58
1:z:478:THR:HA	1:z:644:LEU:HD11	1.86	0.58
1:4:6:SER:HA	1:4:26:THR:HB	1.85	0.58
1:9:95:TYR:HB2	1:9:105:ALA:HB3	1.84	0.58
1:12:50:ILE:HB	1:12:57:ILE:HB	1.84	0.58
1:12:577:GLN:HE21	1:12:604:ASP:HA	1.68	0.58
8:P:767:LEU:HA	8:P:770:ILE:HG22	1.85	0.58
11:l:313:VAL:HG13	11:l:367:PHE:HE1	1.68	0.58
1:11:3:PHE:HE1	1:11:23:MET:HE3	1.67	0.58
1:1:172:PRO:HA	1:1:175:ILE:HD12	1.85	0.58
4:E:345:VAL:HA	4:E:369:LEU:HD21	1.85	0.58
4:e:547:GLY:HA3	4:e:573:ILE:HD12	1.86	0.58
1:5:255:PRO:HG3	1:5:446:GLU:HB3	1.85	0.58
1:7:489:ARG:HH11	1:7:571:ASP:HA	1.68	0.58
13:A:777:LYS:HA	13:A:804:TYR:HB3	1.85	0.58
10:n:49:GLY:HA2	11:l:350:LYS:HZ2	1.68	0.58
10:n:711:LEU:HD21	10:n:746:LEU:HD22	1.84	0.58
10:n:918:ILE:HG13	10:n:919:GLN:HG3	1.84	0.58
12:m:163:ILE:HD11	12:m:250:LEU:HB3	1.85	0.58
1:16:6:SER:HA	1:16:26:THR:HB	1.85	0.58
1:16:96:PHE:HB3	1:16:100:GLN:HB3	1.85	0.58
1:16:300:GLN:HB2	1:16:670:ARG:HB3	1.85	0.58
1:13:37:CYS:HA	1:13:97:CYS:HA	1.86	0.58
1:17:399:ALA:H	1:17:591:GLN:NE2	2.01	0.58
2:C:138:LEU:HD23	2:C:141:LEU:HD12	1.86	0.58
6:k:145:PHE:HZ	6:k:149:GLU:HB3	1.68	0.58
10:n:351:ARG:H	10:n:351:ARG:HD2	1.68	0.58
10:n:471:GLU:OE1	10:n:505:PHE:HD1	1.86	0.58
13:a:278:VAL:HG22	13:a:320:LEU:HD23	1.85	0.58
13:a:780:PHE:HD2	13:a:785:VAL:HG21	1.68	0.58
1:14:21:VAL:HA	1:14:79:MET:HB2	1.85	0.58
1:18:140:TRP:HD1	1:18:148:GLY:HA3	1.69	0.58
4:E:231:LEU:HB2	4:E:277:THR:HB	1.85	0.58
4:I:904:GLU:CB	9:R:66:GLN:NE2	2.63	0.58
2:c:138:LEU:HD23	2:c:141:LEU:HD12	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:607:LEU:HD23	4:e:618:LEU:HB3	1.86	0.58
5:j:154:LEU:HD13	5:j:165:THR:HG22	1.85	0.58
1:2:440:MET:HE3	1:2:444:LEU:HD23	1.86	0.58
1:3:529:ARG:HE	1:3:656:LEU:HD13	1.68	0.58
1:3:624:LYS:C	1:3:629:CYS:HA	2.28	0.58
1:7:50:ILE:O	1:7:56:VAL:HA	2.03	0.58
13:A:689:LEU:HA	13:A:692:CYS:HB2	1.85	0.58
8:p:722:ARG:HB3	8:p:734:LYS:HE2	1.85	0.58
1:16:60:LYS:HG3	1:17:130:MET:HE1	1.86	0.58
1:14:307:LEU:HG	1:14:309:ARG:HG2	1.86	0.58
1:13:197:LEU:HB2	1:13:265:LEU:HD11	1.86	0.58
1:18:426:LEU:HD13	1:18:459:LEU:HD11	1.84	0.58
1:1:37:CYS:HB3	1:1:95:TYR:HB3	1.86	0.58
4:I:263:LEU:HB3	4:I:289:ILE:HG21	1.85	0.58
1:Z:676:LYS:HG2	1:Z:678:TRP:CZ2	2.37	0.58
4:e:638:LEU:HB2	4:e:664:LEU:HD11	1.86	0.58
4:e:681:PHE:HD2	4:e:706:LEU:HD23	1.69	0.58
1:4:307:LEU:HG	1:4:309:ARG:HG2	1.86	0.58
1:6:300:GLN:HB2	1:6:670:ARG:HB3	1.85	0.58
1:7:37:CYS:HA	1:7:97:CYS:HA	1.86	0.58
1:7:296:MET:H	1:7:409:VAL:HG21	1.69	0.58
8:p:25:VAL:HB	8:p:54:ASP:HA	1.86	0.58
8:p:767:LEU:HA	8:p:770:ILE:HG22	1.85	0.58
13:a:995:LEU:HD23	13:a:1023:MET:HG2	1.86	0.58
13:f:726:LYS:HD3	13:f:727:PRO:HD2	1.85	0.58
1:19:305:VAL:HG22	1:19:668:ILE:HG12	1.85	0.58
1:19:514:THR:HA	1:19:533:THR:HA	1.85	0.58
1:15:48:ILE:HG12	1:15:79:MET:SD	2.44	0.58
1:15:62:ASP:HB2	1:14:129:ASP:OD1	2.03	0.58
1:15:273:ASP:H	1:15:276:ILE:HB	1.69	0.58
1:15:581:LEU:HB3	1:15:596:LEU:HD12	1.85	0.58
1:17:471:GLN:NE2	1:17:600:PRO:HD3	2.19	0.58
1:18:115:GLU:O	1:18:185:VAL:HA	2.04	0.58
4:E:681:PHE:HD2	4:E:706:LEU:HD23	1.69	0.58
4:I:310:HIS:HB3	4:I:316:ARG:HH11	1.69	0.58
8:Q:227:TYR:HD2	8:Q:230:LYS:HE2	1.69	0.58
1:Z:676:LYS:HB2	1:Z:679:LYS:HG3	1.86	0.58
4:i:607:LEU:HD23	4:i:618:LEU:HD23	1.86	0.58
1:2:29:ILE:HD11	1:2:75:ALA:HB2	1.86	0.58
1:2:37:CYS:HA	1:2:97:CYS:HA	1.85	0.58
1:6:116:ILE:HG13	1:6:267:LEU:HD22	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:463:TRP:NE1	1:8:553:CYS:HB3	2.19	0.58
10:N:776:GLN:HA	10:N:803:LEU:HA	1.85	0.58
13:F:812:MET:HB2	13:F:817:MET:SD	2.44	0.58
12:m:149:THR:HG21	12:m:191:GLN:HB3	1.86	0.58
1:11:49:LEU:HD13	1:11:58:ALA:HA	1.86	0.58
1:15:40:PHE:HA	1:15:94:SER:O	2.03	0.58
1:15:200:HIS:HE1	1:15:283:LYS:HE3	1.69	0.58
1:15:211:VAL:HB	1:15:225:VAL:HB	1.85	0.58
1:13:119:GLU:HB2	1:13:182:ASN:HB2	1.84	0.58
4:E:607:LEU:HD23	4:E:618:LEU:HB3	1.86	0.58
4:I:538:ASN:HB3	4:I:541:LEU:HB2	1.85	0.58
9:R:50:ARG:HH22	13:F:784:GLU:CD	2.12	0.58
4:i:226:PHE:HD2	4:i:273:LEU:HG	1.69	0.58
1:z:675:PHE:HE2	1:z:680:MET:HB3	1.67	0.58
1:3:119:GLU:HB2	1:3:182:ASN:HB2	1.84	0.58
1:3:197:LEU:HB2	1:3:265:LEU:HD11	1.86	0.58
10:N:763:LEU:HA	10:N:766:HIS:CE1	2.38	0.58
11:L:138:SER:HB3	11:L:144:GLY:HA3	1.85	0.58
12:M:163:ILE:HD11	12:M:250:LEU:HB3	1.84	0.58
12:M:169:VAL:HG12	12:M:202:ILE:HB	1.85	0.58
13:F:1129:ARG:HE	14:G:147:PRO:HG3	1.69	0.58
11:l:311:LEU:HD22	11:l:343:GLU:HB2	1.86	0.58
13:f:1129:ARG:HE	14:g:147:PRO:HG3	1.69	0.58
1:13:43:ARG:HE	1:13:44:GLY:N	2.01	0.58
1:13:355:GLN:HB3	1:13:677:TRP:HE1	1.68	0.58
4:E:657:LEU:HD23	4:E:662:PHE:HE2	1.68	0.57
4:I:367:THR:HB	4:I:499:PHE:HA	1.85	0.57
1:Z:412:PRO:HB3	1:Z:421:PRO:HA	1.86	0.57
4:i:116:ARG:HD3	4:i:343:TRP:HE1	1.69	0.57
4:i:151:LEU:HB3	4:i:276:SER:HA	1.85	0.57
4:i:910:PHE:HA	4:i:916:LEU:HD23	1.85	0.57
1:z:603:PRO:HB2	1:z:620:PRO:HA	1.86	0.57
1:3:114:ILE:HD11	1:3:191:ILE:HD13	1.84	0.57
1:5:20:MET:HB2	1:5:23:MET:HE1	1.86	0.57
13:A:562:LEU:HD22	13:A:565:LEU:HD11	1.86	0.57
10:n:39:PHE:HZ	11:l:331:LEU:HD22	1.69	0.57
10:n:88:ALA:HA	10:n:211:ARG:HG2	1.86	0.57
14:g:291:LYS:HB2	14:g:329:ARG:HG2	1.86	0.57
1:19:43:ARG:HG3	1:19:63:THR:H	1.69	0.57
1:15:255:PRO:HG3	1:15:446:GLU:HB3	1.85	0.57
1:Z:261:ILE:O	1:Z:287:MET:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:42:ILE:HD13	1:z:52:ILE:HD11	1.86	0.57
1:9:11:LEU:HG	1:9:32:CYS:HA	1.87	0.57
12:M:113:VAL:HG23	12:M:151:LEU:HD12	1.85	0.57
10:n:776:GLN:HA	10:n:803:LEU:HA	1.85	0.57
12:m:169:VAL:HG12	12:m:202:ILE:HB	1.84	0.57
13:a:923:ASN:HA	13:a:952:HIS:HB3	1.86	0.57
13:a:1119:ILE:HD13	13:a:1144:VAL:HG13	1.86	0.57
1:11:19:CYS:HB2	1:11:25:ILE:HD11	1.86	0.57
1:16:116:ILE:HG13	1:16:267:LEU:HD22	1.85	0.57
1:16:118:LEU:HB2	1:16:131:PRO:HB3	1.85	0.57
1:13:20:MET:HB3	1:13:23:MET:HE3	1.85	0.57
1:13:114:ILE:HD11	1:13:191:ILE:HD13	1.84	0.57
1:17:143:GLY:HA2	1:17:681:THR:HG22	1.86	0.57
1:17:296:MET:H	1:17:409:VAL:HG21	1.69	0.57
1:Z:421:PRO:HD2	1:Z:680:MET:HE1	1.85	0.57
4:i:563:LEU:HD11	4:i:589:CYS:HA	1.86	0.57
1:6:355:GLN:HG2	1:6:676:LYS:HA	1.86	0.57
1:6:428:GLY:HA2	1:6:469:MET:HE2	1.86	0.57
1:7:140:TRP:CD1	1:7:148:GLY:HA3	2.38	0.57
1:8:234:LEU:HD12	1:8:235:PRO:HD2	1.86	0.57
1:9:60:LYS:HE2	1:9:63:THR:HG22	1.86	0.57
1:9:307:LEU:HD11	1:9:664:ALA:HB1	1.85	0.57
1:12:639:LEU:HD11	1:12:644:LEU:HD12	1.85	0.57
8:P:4:GLN:O	8:P:68:THR:HA	2.04	0.57
13:A:1091:ASN:HB2	13:A:1150:TRP:CD2	2.39	0.57
10:n:236:ASN:HA	10:n:239:MET:HE2	1.86	0.57
10:n:634:HIS:NE2	10:n:636:ASP:HB2	2.19	0.57
8:p:421:ASN:HB3	8:p:463:TYR:HE2	1.69	0.57
13:f:340:LEU:HD13	13:f:342:ARG:HH21	1.69	0.57
1:16:369:ARG:HD3	1:16:403:SER:HB3	1.85	0.57
1:17:422:LEU:HD13	1:17:673:PHE:HD2	1.70	0.57
1:18:605:MET:SD	1:18:620:PRO:HG3	2.43	0.57
4:i:874:VAL:HG21	4:i:898:ILE:HG23	1.86	0.57
1:8:18:LEU:HD23	1:8:112:THR:HB	1.85	0.57
1:9:378:MET:O	1:9:382:LEU:HG	2.05	0.57
1:12:91:VAL:HB	1:12:109:LEU:HB3	1.86	0.57
10:N:634:HIS:NE2	10:N:636:ASP:HB2	2.19	0.57
12:M:164:MET:O	12:M:197:ASP:HB3	2.05	0.57
11:l:318:ARG:HG2	11:l:361:LEU:HD12	1.86	0.57
13:f:320:LEU:HD11	13:f:369:ILE:HG13	1.85	0.57
1:16:355:GLN:HG2	1:16:676:LYS:HA	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:330:LYS:H	4:E:581:SER:HB3	1.70	0.57
4:E:638:LEU:HB2	4:E:664:LEU:HD11	1.86	0.57
5:J:176:ASP:HB3	5:J:183:LEU:HD11	1.86	0.57
8:Q:212:ASN:HA	8:Q:246:ARG:HD3	1.87	0.57
1:Z:378:MET:O	1:Z:382:LEU:HG	2.05	0.57
4:e:20:LYS:HA	4:e:23:MET:HE2	1.86	0.57
4:i:904:GLU:CG	9:r:66:GLN:OE1	2.51	0.57
1:z:37:CYS:HA	1:z:97:CYS:HA	1.86	0.57
1:7:471:GLN:NE2	1:7:600:PRO:HD3	2.19	0.57
10:N:236:ASN:HA	10:N:239:MET:HE2	1.87	0.57
8:p:565:VAL:HG22	8:p:584:LEU:HG	1.87	0.57
13:a:1091:ASN:HB2	13:a:1150:TRP:CD2	2.38	0.57
1:16:364:ILE:HG23	1:16:388:TYR:HD1	1.70	0.57
1:16:427:ILE:HB	1:16:458:GLU:HA	1.84	0.57
1:14:48:ILE:HG12	1:14:79:MET:HE1	1.86	0.57
1:13:581:LEU:HD13	1:13:596:LEU:HD13	1.85	0.57
1:17:46:PRO:HG3	1:17:61:GLU:HB2	1.86	0.57
5:J:154:LEU:HD13	5:J:165:THR:HG22	1.85	0.57
4:e:309:PHE:HB3	4:e:319:ALA:HB1	1.85	0.57
5:j:176:ASP:HB3	5:j:183:LEU:HD11	1.86	0.57
1:6:64:VAL:HB	1:6:66:TRP:CD1	2.40	0.57
1:6:427:ILE:HB	1:6:458:GLU:HA	1.85	0.57
1:9:180:GLN:HG3	1:9:246:TYR:HE1	1.70	0.57
10:N:719:GLU:HA	10:N:746:LEU:HA	1.86	0.57
1:11:677:TRP:O	1:11:680:MET:HG2	2.05	0.57
1:15:140:TRP:HB2	1:15:287:MET:HG2	1.85	0.57
1:18:333:LYS:HB2	1:18:333:LYS:HZ2	1.68	0.57
1:18:367:THR:HG22	1:18:391:ARG:HB3	1.85	0.57
1:1:625:ILE:HG23	3:D:64:HIS:HE1	1.69	0.57
4:I:607:LEU:HD23	4:I:618:LEU:HD23	1.86	0.57
1:Z:489:ARG:HG3	1:Z:642:LEU:HD11	1.87	0.57
4:i:310:HIS:HB3	4:i:316:ARG:HH11	1.69	0.57
6:k:36:MET:HE1	6:k:45:VAL:HA	1.87	0.57
1:8:119:GLU:HA	1:8:131:PRO:HG3	1.87	0.57
8:P:25:VAL:HB	8:P:54:ASP:HA	1.85	0.57
14:b:452:ARG:HD2	14:b:461:VAL:HG21	1.85	0.57
13:f:892:ILE:HG23	13:f:920:CYS:HB3	1.87	0.57
6:k:27:ILE:O	6:k:31:LEU:HG	2.05	0.57
1:3:382:LEU:HD11	1:3:388:TYR:HD2	1.70	0.57
1:9:306:TYR:HB2	1:9:667:ILE:HG22	1.86	0.57
10:N:116:VAL:HG22	10:N:158:LEU:HB3	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:372:THR:HG21	13:A:377:LEU:HD13	1.85	0.57
13:A:780:PHE:HD2	13:A:785:VAL:HG21	1.67	0.57
11:l:64:ILE:HG13	11:l:120:VAL:HG12	1.87	0.57
1:15:346:GLN:H	1:15:665:SER:HB3	1.68	0.57
1:Z:581:LEU:HB3	1:Z:596:LEU:HB3	1.86	0.57
4:e:330:LYS:H	4:e:581:SER:HB3	1.69	0.57
2:h:52:TRP:HB2	2:h:85:ASN:HD21	1.70	0.57
4:i:207:TRP:CD1	4:i:209:SER:H	2.14	0.57
1:5:50:ILE:HG23	1:5:52:ILE:HD12	1.87	0.57
1:6:211:VAL:HG22	1:6:247:VAL:HG13	1.87	0.57
1:6:369:ARG:HD3	1:6:403:SER:HB3	1.85	0.57
1:9:40:PHE:CE2	1:9:67:ARG:HB2	2.40	0.57
11:L:64:ILE:HG13	11:L:120:VAL:HG12	1.85	0.57
1:11:43:ARG:HE	1:11:92:LEU:HD12	1.70	0.57
1:15:63:THR:HG22	1:15:65:VAL:HG23	1.86	0.57
1:1:294:ILE:HG12	1:1:422:LEU:HD23	1.85	0.57
4:I:331:GLN:HG3	4:I:581:SER:HB2	1.87	0.57
1:Z:499:PHE:HZ	1:Z:547:ASN:HD22	1.51	0.57
4:e:461:PHE:HA	4:e:464:LEU:HD12	1.87	0.57
5:j:124:VAL:HG12	5:j:130:ILE:HG22	1.87	0.57
1:5:273:ASP:H	1:5:276:ILE:HB	1.68	0.57
1:5:346:GLN:H	1:5:665:SER:HB3	1.68	0.57
14:B:345:TYR:HB2	14:B:363:TYR:HB3	1.87	0.57
14:G:291:LYS:HB2	14:G:329:ARG:HG2	1.87	0.57
8:p:5:VAL:HG12	8:p:69:ILE:HB	1.86	0.57
13:a:562:LEU:HD22	13:a:565:LEU:HD11	1.86	0.57
1:19:82:PRO:HA	1:19:113:GLY:HA3	1.87	0.57
1:16:130:MET:HB3	1:16:131:PRO:HD3	1.86	0.57
1:17:469:MET:HB2	1:17:472:PHE:HE1	1.70	0.57
1:1:60:LYS:HD2	1:3:22:GLY:HA2	1.87	0.56
2:C:46:VAL:HG22	2:C:90:THR:HG22	1.86	0.56
4:i:117:ILE:HG13	4:i:161:LEU:HD22	1.87	0.56
8:q:251:LEU:H	8:q:267:ARG:HB2	1.70	0.56
1:8:401:LEU:HB3	1:8:406:ASN:ND2	2.20	0.56
11:L:311:LEU:HD22	11:L:343:GLU:HB2	1.87	0.56
11:L:313:VAL:HG13	11:L:367:PHE:HE1	1.68	0.56
11:L:375:GLN:HG3	11:L:419:VAL:HG23	1.87	0.56
12:M:2:ARG:HE	12:M:131:GLN:HG2	1.70	0.56
13:A:254:GLY:HA3	16:A:1201:ADP:C8	2.38	0.56
13:F:308:LEU:O	13:F:312:ILE:HG12	2.05	0.56
11:l:375:GLN:HG3	11:l:419:VAL:HG23	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:11:172:PRO:HA	1:11:175:ILE:HD12	1.86	0.56
1:11:323:LEU:HD21	1:11:647:THR:HG21	1.87	0.56
4:I:281:THR:HA	4:I:284:LYS:HD2	1.87	0.56
7:O:95:PRO:HG2	8:P:749:PRO:HB3	1.86	0.56
2:c:46:VAL:HG22	2:c:90:THR:HG22	1.85	0.56
1:z:389:LEU:HD12	1:z:390:ILE:H	1.69	0.56
1:6:213:TRP:HA	1:6:244:ALA:O	2.04	0.56
10:N:180:LYS:HA	10:N:200:MET:HB3	1.87	0.56
13:F:320:LEU:HD11	13:F:369:ILE:HG13	1.86	0.56
11:l:138:SER:HB3	11:l:144:GLY:HA3	1.86	0.56
13:a:777:LYS:HA	13:a:804:TYR:HB3	1.86	0.56
13:a:834:LEU:HD21	13:a:836:LEU:HG	1.87	0.56
1:19:675:PHE:HE2	1:19:680:MET:HB3	1.69	0.56
1:15:616:GLY:HA2	1:15:647:THR:HB	1.88	0.56
1:17:346:GLN:HA	1:17:667:ILE:HD11	1.86	0.56
4:E:221:PRO:HB2	4:E:270:GLU:HB2	1.87	0.56
4:E:461:PHE:HA	4:E:464:LEU:HD12	1.87	0.56
4:I:116:ARG:HD3	4:I:343:TRP:HE1	1.69	0.56
5:J:112:THR:HG22	5:J:159:ASP:H	1.70	0.56
5:J:124:VAL:HG12	5:J:130:ILE:HG22	1.87	0.56
1:Z:425:VAL:HG12	1:Z:427:ILE:HB	1.88	0.56
9:r:61:ARG:HH12	14:g:354:ASN:HA	1.69	0.56
1:z:581:LEU:HB3	1:z:596:LEU:HD22	1.88	0.56
1:4:48:ILE:HG12	1:4:79:MET:HE1	1.85	0.56
1:5:316:PHE:HA	1:5:649:ILE:HG21	1.86	0.56
1:5:603:PRO:HG2	1:5:621:PHE:HB2	1.87	0.56
1:6:9:LEU:HG	1:6:27:LEU:HD21	1.87	0.56
10:N:409:GLU:HB2	10:N:412:GLU:HG3	1.86	0.56
11:L:139:LEU:HG	11:L:168:SER:HB3	1.87	0.56
12:M:309:ARG:HE	12:M:426:GLN:HB2	1.70	0.56
13:A:923:ASN:HA	13:A:952:HIS:HB3	1.87	0.56
13:F:892:ILE:HG23	13:F:920:CYS:HB3	1.87	0.56
10:n:31:ARG:HD2	10:n:105:ALA:HA	1.86	0.56
10:n:875:LEU:HD23	10:n:903:CYS:HB2	1.86	0.56
10:n:949:LEU:HD13	10:n:975:LEU:HD11	1.87	0.56
8:p:58:LEU:HB3	8:p:63:VAL:CG2	2.34	0.56
12:m:164:MET:O	12:m:197:ASP:HB3	2.05	0.56
12:m:236:VAL:HG13	12:m:368:ILE:HD11	1.87	0.56
13:a:837:ASP:HB2	13:a:865:ALA:HB3	1.87	0.56
13:a:947:ARG:HG2	13:a:975:HIS:HB2	1.87	0.56
14:b:345:TYR:HB2	14:b:363:TYR:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:761:MET:HE3	13:f:791:HIS:HB2	1.87	0.56
1:11:446:GLU:HA	1:11:449:TYR:HB2	1.88	0.56
1:15:431:PHE:HE2	1:15:560:LEU:HD11	1.70	0.56
1:15:603:PRO:HG2	1:15:621:PHE:HB2	1.86	0.56
1:14:41:THR:HB	1:14:64:VAL:HG23	1.87	0.56
1:13:47:ARG:HD2	1:13:81:ALA:HB3	1.87	0.56
4:i:281:THR:HA	4:i:284:LYS:HD2	1.87	0.56
8:q:227:TYR:HD2	8:q:230:LYS:HE2	1.70	0.56
1:z:20:MET:HB3	1:z:23:MET:HE3	1.87	0.56
1:z:211:VAL:HG22	1:z:247:VAL:HG22	1.88	0.56
1:4:260:LEU:HB2	1:4:287:MET:HE2	1.88	0.56
1:4:513:VAL:HG21	1:4:625:ILE:HG12	1.87	0.56
1:5:431:PHE:HE2	1:5:560:LEU:HD11	1.70	0.56
1:8:307:LEU:HD21	1:8:317:VAL:HG23	1.88	0.56
1:9:174:GLU:O	1:9:178:LEU:HG	2.06	0.56
1:9:427:ILE:HD11	1:9:456:PRO:HB3	1.88	0.56
10:N:875:LEU:HD23	10:N:903:CYS:HB2	1.86	0.56
11:L:401:GLU:CD	11:L:402:GLY:H	2.13	0.56
13:F:260:ARG:HA	13:F:263:VAL:HG12	1.88	0.56
12:m:2:ARG:HE	12:m:131:GLN:HG2	1.71	0.56
12:m:319:GLY:HA2	12:m:358:PRO:HA	1.87	0.56
1:18:307:LEU:HD21	1:18:317:VAL:HG13	1.87	0.56
4:E:841:ILE:HB	4:E:867:ASN:HB3	1.87	0.56
4:E:859:LEU:HD21	4:E:862:LEU:HD13	1.87	0.56
2:H:74:ALA:HB1	2:H:92:PHE:O	2.06	0.56
5:J:140:ILE:HG21	5:J:143:VAL:HG23	1.87	0.56
1:z:97:CYS:SG	1:z:102:VAL:HG21	2.46	0.56
1:z:140:TRP:HD1	1:z:148:GLY:HA3	1.71	0.56
1:5:200:HIS:HE1	1:5:283:LYS:HE3	1.70	0.56
1:8:46:PRO:HD2	1:8:47:ARG:HH22	1.70	0.56
1:9:28:ASP:HB3	1:9:31:LYS:HE3	1.87	0.56
8:P:423:PHE:HB3	8:P:463:TYR:CE1	2.41	0.56
13:A:947:ARG:HG2	13:A:975:HIS:HB2	1.87	0.56
8:p:44:ARG:HB2	8:p:72:LEU:HB3	1.86	0.56
1:11:413:VAL:HG21	1:11:565:LEU:HD22	1.86	0.56
1:15:264:SER:HA	1:15:284:ASP:O	2.05	0.56
1:15:579:PHE:HB3	1:15:598:ALA:HB1	1.86	0.56
1:16:211:VAL:HG13	1:16:247:VAL:HG22	1.87	0.56
1:13:279:ILE:HD12	1:13:280:PRO:HD2	1.87	0.56
1:1:19:CYS:HB2	1:1:25:ILE:HD11	1.88	0.56
1:1:29:ILE:HD11	1:1:75:ALA:HB2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:20:LYS:HA	4:E:23:MET:HE2	1.86	0.56
4:E:547:GLY:HA3	4:E:573:ILE:HD12	1.87	0.56
4:I:117:ILE:HG13	4:I:161:LEU:HD22	1.87	0.56
9:R:39:TRP:HA	9:R:80:LEU:HD13	1.86	0.56
4:i:331:GLN:HG3	4:i:581:SER:HB2	1.87	0.56
1:3:279:ILE:HD12	1:3:280:PRO:HD2	1.87	0.56
1:5:264:SER:HA	1:5:284:ASP:O	2.06	0.56
1:8:475:PHE:HE1	1:8:490:LEU:HD12	1.70	0.56
1:9:599:ARG:HE	1:9:656:LEU:HD22	1.70	0.56
1:9:675:PHE:HE2	1:9:680:MET:HB3	1.70	0.56
13:A:623:VAL:HA	13:A:626:LYS:HD2	1.88	0.56
13:A:676:ILE:HG23	13:A:681:ASP:HB2	1.86	0.56
11:l:401:GLU:CD	11:l:402:GLY:H	2.13	0.56
12:m:303:CYS:HB2	12:m:376:GLU:HG3	1.87	0.56
1:17:489:ARG:HH11	1:17:571:ASP:HA	1.71	0.56
1:1:60:LYS:HZ2	1:3:78:ARG:HB3	1.69	0.56
3:D:50:LEU:HD21	3:D:113:LEU:HD22	1.88	0.56
4:I:478:ILE:HG21	4:I:524:ILE:HG23	1.88	0.56
4:I:563:LEU:HD11	4:I:589:CYS:HA	1.86	0.56
4:e:482:LEU:HD22	4:e:528:LEU:HD22	1.88	0.56
4:i:478:ILE:HG21	4:i:524:ILE:HG23	1.88	0.56
5:j:1:MET:HE1	6:k:139:PHE:HB3	1.86	0.56
5:j:32:TRP:HH2	6:k:139:PHE:HD2	1.53	0.56
1:2:341:GLN:HE22	1:2:398:VAL:HG13	1.70	0.56
1:3:43:ARG:HE	1:3:44:GLY:N	2.04	0.56
14:B:528:VAL:HG12	14:B:534:ILE:HG12	1.86	0.56
13:F:646:THR:HG22	13:F:650:PHE:CE2	2.41	0.56
11:l:284:LEU:HB3	11:l:363:MET:HB2	1.87	0.56
14:g:528:VAL:HG12	14:g:534:ILE:HD12	1.87	0.56
1:11:181:MET:SD	1:11:245:PHE:HB2	2.46	0.56
1:14:283:LYS:HB3	1:13:431:PHE:HZ	1.70	0.56
1:17:556:LEU:HD11	1:18:280:PRO:O	2.05	0.56
4:e:859:LEU:HD21	4:e:862:LEU:HD13	1.88	0.56
5:j:287:LYS:HG2	5:j:304:ARG:HB2	1.88	0.56
1:z:149:ALA:HB3	1:z:288:PHE:CD1	2.41	0.56
1:7:469:MET:HB2	1:7:472:PHE:HE1	1.70	0.56
1:12:359:LYS:HG2	1:12:360:THR:H	1.71	0.56
12:M:319:GLY:HA2	12:M:358:PRO:HA	1.88	0.56
13:A:1099:THR:HG21	13:A:1129:ARG:HD2	1.87	0.56
13:F:1152:ALA:HA	14:G:266:ASN:HD22	1.71	0.56
10:n:878:LEU:O	10:n:882:LEU:HG	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:324:CYS:SG	8:p:347:HIS:HB3	2.46	0.56
8:p:454:ILE:HD12	8:p:513:LEU:HD22	1.87	0.56
12:m:2:ARG:HH21	12:m:250:LEU:HG	1.71	0.56
13:a:676:ILE:HG23	13:a:681:ASP:HB2	1.87	0.56
1:11:294:ILE:HG12	1:11:422:LEU:HD23	1.88	0.56
1:11:442:LYS:O	1:11:446:GLU:HG3	2.06	0.56
1:13:371:SER:HA	1:13:396:HIS:CE1	2.41	0.56
1:18:294:ILE:HG22	1:18:295:PHE:O	2.05	0.56
4:E:603:THR:HG21	4:E:607:LEU:HD12	1.88	0.56
4:i:395:GLN:HG3	4:i:466:ARG:HD2	1.88	0.56
1:3:42:ILE:HG13	1:3:93:VAL:HG22	1.87	0.56
1:4:43:ARG:HE	1:4:62:ASP:HA	1.70	0.56
1:6:6:SER:HA	1:6:26:THR:HB	1.87	0.56
1:6:305:VAL:HG23	1:6:329:VAL:HG11	1.88	0.56
1:6:459:LEU:HB2	1:6:469:MET:HE1	1.88	0.56
8:P:45:LEU:HB3	8:P:52:MET:HE2	1.87	0.56
8:P:454:ILE:HD12	8:P:513:LEU:HD22	1.86	0.56
13:A:1119:ILE:HD13	13:A:1144:VAL:HG13	1.87	0.56
10:n:719:GLU:HA	10:n:746:LEU:HA	1.86	0.56
13:a:1129:ARG:HA	13:a:1132:ARG:HE	1.70	0.56
13:f:666:LEU:HB3	13:f:692:CYS:HB3	1.87	0.56
13:f:844:ILE:O	13:f:848:MET:HG2	2.06	0.56
1:11:60:LYS:HE3	1:13:78:ARG:HB3	1.88	0.56
1:19:180:GLN:HG3	1:19:246:TYR:HE1	1.70	0.56
1:18:213:TRP:CZ2	1:18:215:GLN:HG2	2.41	0.56
1:1:234:LEU:HD12	1:1:235:PRO:HD2	1.88	0.56
4:E:482:LEU:HD22	4:E:528:LEU:HD22	1.88	0.56
4:E:739:ILE:HG23	4:E:743:SER:HB3	1.88	0.56
2:H:65:ILE:HD11	2:H:76:LEU:HD11	1.88	0.56
6:K:145:PHE:HZ	6:K:149:GLU:HB3	1.70	0.56
1:Z:195:TYR:HE2	1:Z:281:LEU:HD12	1.70	0.56
1:Z:268:VAL:HA	1:Z:280:PRO:HA	1.88	0.56
7:o:15:ARG:NH1	7:o:16:ASP:HB2	2.21	0.56
1:3:624:LYS:C	1:3:625:ILE:HD13	2.31	0.56
1:9:181:MET:HG3	1:9:245:PHE:HB2	1.88	0.56
1:12:21:VAL:HG22	1:12:79:MET:HE3	1.88	0.56
1:12:196:GLN:HG3	1:12:270:LYS:HE2	1.88	0.56
10:N:662:ARG:HE	10:N:663:VAL:HG13	1.71	0.56
8:P:39:GLU:HB2	8:P:42:LEU:HB2	1.87	0.56
11:L:284:LEU:HB3	11:L:363:MET:HB2	1.87	0.56
12:M:20:PHE:O	12:M:24:ILE:HG12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:864:LEU:HB3	13:A:867:ASN:HD21	1.71	0.56
10:n:515:GLU:HG2	10:n:549:ALA:HB2	1.88	0.56
1:15:316:PHE:HA	1:15:649:ILE:HG21	1.87	0.56
1:15:401:LEU:HD21	1:15:467:GLY:HA3	1.88	0.56
1:17:48:ILE:HG12	1:17:79:MET:SD	2.46	0.56
1:17:463:TRP:CG	1:17:553:CYS:HG	2.24	0.56
1:1:619:LYS:HG2	1:1:621:PHE:H	1.71	0.55
4:I:184:PHE:HA	4:I:206:GLU:HG3	1.87	0.55
5:J:134:ASP:HB3	5:J:137:GLU:HB3	1.88	0.55
4:i:501:PHE:HA	4:i:504:LEU:HD12	1.87	0.55
8:q:212:ASN:HA	8:q:246:ARG:HD3	1.87	0.55
1:5:401:LEU:HD21	1:5:467:GLY:HA3	1.88	0.55
1:9:205:GLU:HB3	1:9:261:ILE:HG23	1.88	0.55
1:12:83:SER:H	1:12:113:GLY:HA3	1.71	0.55
10:N:515:GLU:HG2	10:N:549:ALA:HB2	1.88	0.55
10:N:516:PRO:O	10:N:520:ILE:HG12	2.07	0.55
13:A:837:ASP:HB2	13:A:865:ALA:HB3	1.87	0.55
11:l:299:MET:HG3	11:l:300:MET:H	1.70	0.55
12:m:321:MET:HE3	12:m:321:MET:HA	1.88	0.55
13:a:623:VAL:HA	13:a:626:LYS:HD2	1.88	0.55
13:f:260:ARG:HA	13:f:263:VAL:HG12	1.88	0.55
13:f:1152:ALA:HA	14:g:266:ASN:HD22	1.70	0.55
1:13:505:LYS:HD2	1:13:625:ILE:HG21	1.88	0.55
3:D:64:HIS:CD2	3:D:68:MET:HE2	2.42	0.55
8:Q:284:ARG:HD2	8:Q:295:PRO:HA	1.87	0.55
4:e:338:VAL:HG12	4:e:341:LEU:H	1.70	0.55
1:5:579:PHE:HB3	1:5:598:ALA:HB1	1.88	0.55
1:7:255:PRO:HG3	1:7:446:GLU:HB3	1.89	0.55
1:8:170:GLU:HB3	1:8:174:GLU:HB2	1.88	0.55
1:8:279:ILE:HD12	1:8:280:PRO:HD2	1.88	0.55
13:F:676:ILE:HB	13:F:702:ILE:HG12	1.88	0.55
13:f:372:THR:HG21	13:f:377:LEU:HD13	1.87	0.55
13:f:874:MET:HE1	13:f:877:LEU:HD23	1.87	0.55
13:f:1007:LEU:O	13:f:1035:LEU:HA	2.06	0.55
1:15:459:LEU:HD13	1:15:473:MET:HE1	1.88	0.55
4:I:332:LEU:HD13	4:I:366:THR:HG23	1.87	0.55
1:Z:48:ILE:HG23	1:Z:50:ILE:HG13	1.88	0.55
1:Z:519:ILE:HG13	1:Z:621:PHE:HB3	1.89	0.55
4:i:236:TRP:HE3	4:i:256:SER:HA	1.70	0.55
1:2:91:VAL:HB	1:2:109:LEU:HB3	1.87	0.55
1:12:341:GLN:HE22	1:12:398:VAL:HG13	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:m:20:PHE:O	12:m:24:ILE:HG12	2.06	0.55
1:19:205:GLU:HB3	1:19:261:ILE:HG23	1.88	0.55
1:15:495:PRO:HB3	1:15:547:ASN:HB3	1.89	0.55
1:15:544:ARG:HA	1:15:547:ASN:HD22	1.71	0.55
1:16:428:GLY:HA2	1:16:469:MET:HE2	1.88	0.55
1:13:382:LEU:HD11	1:13:388:TYR:HD2	1.71	0.55
1:17:349:MET:HE3	1:17:366:ASP:HB2	1.87	0.55
1:17:618:PRO:HB3	1:17:655:TYR:CZ	2.41	0.55
1:1:463:TRP:H	1:1:463:TRP:CD1	2.24	0.55
2:C:71:MET:HG2	4:E:12:TRP:HZ3	1.69	0.55
7:O:15:ARG:NH1	7:O:16:ASP:HB2	2.22	0.55
4:e:313:PHE:HB2	4:e:319:ALA:HB2	1.89	0.55
5:j:260:LYS:NZ	13:a:1054:GLN:HE21	2.05	0.55
8:q:250:GLU:HA	8:q:267:ARG:HD3	1.88	0.55
1:2:83:SER:HB3	1:2:88:GLU:HB3	1.89	0.55
1:3:371:SER:HA	1:3:396:HIS:CE1	2.41	0.55
1:9:314:GLN:HE22	1:9:663:CYS:HA	1.72	0.55
13:A:329:MET:SD	13:A:333:LEU:HD23	2.46	0.55
13:A:935:CYS:HB2	13:A:966:ARG:HG3	1.89	0.55
10:n:43:TYR:HB3	10:n:47:LEU:HD13	1.88	0.55
10:n:241:TYR:HA	10:n:244:HIS:CD2	2.41	0.55
11:l:183:TYR:HE2	11:l:392:LYS:HG3	1.71	0.55
13:a:1099:THR:HG21	13:a:1129:ARG:HD2	1.87	0.55
14:b:519:SER:HA	14:b:559:MET:HE1	1.89	0.55
13:f:805:LEU:HD21	13:f:807:LEU:HD23	1.88	0.55
1:11:619:LYS:HG2	1:11:621:PHE:H	1.71	0.55
1:15:181:MET:HE1	1:15:183:VAL:HG23	1.88	0.55
1:14:181:MET:SD	1:14:245:PHE:HB2	2.46	0.55
1:18:255:PRO:HG3	1:18:446:GLU:HB3	1.88	0.55
3:D:96:ARG:HB3	3:D:100:ARG:HH12	1.72	0.55
4:I:345:VAL:HA	4:I:369:LEU:HD21	1.89	0.55
5:J:11:MET:HG3	5:J:40:PHE:CZ	2.41	0.55
6:K:136:ARG:HG2	6:K:141:ILE:HD11	1.87	0.55
4:i:397:LEU:HA	4:i:422:ILE:HD11	1.89	0.55
1:2:24:GLU:HB2	1:2:78:ARG:HH21	1.71	0.55
1:6:364:ILE:HG23	1:6:388:TYR:HD1	1.70	0.55
14:B:519:SER:HA	14:B:559:MET:HE1	1.89	0.55
11:l:139:LEU:HG	11:l:168:SER:HB3	1.87	0.55
4:E:226:PHE:HB2	4:E:273:LEU:HD23	1.89	0.55
4:I:207:TRP:CD1	4:I:209:SER:H	2.14	0.55
4:e:841:ILE:HB	4:e:867:ASN:HB3	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:332:LEU:HD13	4:i:366:THR:HG23	1.87	0.55
4:i:345:VAL:HA	4:i:369:LEU:HD21	1.88	0.55
1:z:50:ILE:O	1:z:57:ILE:HB	2.07	0.55
1:z:310:GLU:H	1:z:664:ALA:HB2	1.71	0.55
1:2:359:LYS:HG2	1:2:360:THR:H	1.71	0.55
1:3:47:ARG:HD2	1:3:81:ALA:HB3	1.88	0.55
1:5:25:ILE:O	1:5:76:LEU:HA	2.06	0.55
1:5:562:LYS:HG2	1:5:567:LEU:HB2	1.88	0.55
1:7:599:ARG:HG2	1:7:600:PRO:HD2	1.89	0.55
1:9:82:PRO:HA	1:9:113:GLY:HA3	1.88	0.55
11:L:46:ARG:HG3	11:L:243:PRO:HD3	1.89	0.55
13:A:1129:ARG:HA	13:A:1132:ARG:HE	1.70	0.55
11:l:101:TRP:CD1	11:l:146:GLY:H	2.25	0.55
1:11:41:THR:HG22	1:11:66:TRP:HA	1.87	0.55
1:16:8:SER:HB3	1:16:31:LYS:HG2	1.88	0.55
1:16:465:MET:HG3	1:16:597:PHE:HB2	1.88	0.55
1:18:211:VAL:HB	1:18:225:VAL:HB	1.87	0.55
4:E:711:LEU:HD21	4:E:721:LEU:HD22	1.89	0.55
5:J:22:LEU:HG	6:K:155:LYS:HD3	1.87	0.55
1:Z:124:ARG:HH12	1:Z:678:TRP:HB2	1.72	0.55
5:j:112:THR:HG22	5:j:159:ASP:H	1.71	0.55
5:j:448:MET:HE2	5:j:448:MET:HA	1.89	0.55
1:z:46:PRO:HD3	1:18:130:MET:HG3	1.89	0.55
1:z:122:ILE:HD13	1:z:137:LYS:HB3	1.89	0.55
1:2:196:GLN:HG3	1:2:270:LYS:HE2	1.89	0.55
1:4:397:ARG:HB2	1:4:400:SER:HB2	1.88	0.55
1:5:476:VAL:HG23	1:5:478:THR:HG23	1.88	0.55
1:6:514:THR:HG22	1:6:533:THR:HG22	1.89	0.55
1:8:29:ILE:HD11	1:8:75:ALA:HB2	1.88	0.55
1:12:302:PRO:HG2	1:12:329:VAL:HG11	1.88	0.55
10:N:372:ASP:HB2	10:N:380:MET:HE1	1.88	0.55
8:p:434:MET:HB3	8:p:609:MET:HE1	1.88	0.55
13:f:308:LEU:O	13:f:312:ILE:HG12	2.07	0.55
1:11:50:ILE:HB	1:11:57:ILE:HB	1.88	0.55
1:11:608:ILE:HG23	1:11:617:ILE:HG12	1.89	0.55
1:19:140:TRP:CD1	1:19:148:GLY:HA3	2.41	0.55
1:16:206:ALA:HA	1:16:209:THR:HG22	1.88	0.55
4:I:395:GLN:HG3	4:I:466:ARG:HD2	1.88	0.55
5:J:448:MET:HE2	5:J:448:MET:HA	1.89	0.55
1:z:186:GLU:HA	1:z:241:ARG:HD3	1.89	0.55
1:2:9:LEU:HB2	1:2:27:LEU:HD21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:431:PHE:HZ	1:4:283:LYS:HB3	1.72	0.55
1:7:47:ARG:HD2	1:7:81:ALA:HB3	1.88	0.55
1:7:143:GLY:HA2	1:7:681:THR:HG22	1.88	0.55
12:M:303:CYS:HB2	12:M:376:GLU:HG3	1.87	0.55
13:F:340:LEU:HD13	13:F:342:ARG:HH21	1.72	0.55
8:p:695:LEU:HB3	8:p:703:PHE:CD1	2.41	0.55
1:16:472:PHE:CE2	1:16:473:MET:HE2	2.42	0.55
1:1:413:VAL:HG21	1:1:565:LEU:HD22	1.88	0.55
4:I:126:ILE:HG22	4:I:128:ASN:H	1.72	0.55
1:Z:3:PHE:HZ	1:Z:114:ILE:HD12	1.72	0.55
4:e:226:PHE:HB2	4:e:273:LEU:HD23	1.88	0.55
4:i:560:GLU:O	4:i:564:VAL:HG23	2.07	0.55
4:i:884:PRO:HD2	13:f:813:LYS:HZ1	1.72	0.55
1:5:515:LEU:HD22	1:5:601:TYR:HE2	1.72	0.55
8:P:718:GLU:HB3	8:P:782:ARG:HE	1.72	0.55
12:M:236:VAL:HG13	12:M:368:ILE:HD11	1.87	0.55
13:A:415:ILE:HG23	13:A:720:VAL:HG12	1.88	0.55
13:F:372:THR:HG21	13:F:377:LEU:HD13	1.88	0.55
8:p:64:ARG:HG3	8:p:340:ASP:OD1	2.07	0.55
13:a:415:ILE:HG23	13:a:720:VAL:HG12	1.89	0.55
1:11:15:THR:HB	1:11:109:LEU:HD13	1.87	0.55
1:16:305:VAL:HG23	1:16:329:VAL:HG11	1.88	0.55
1:18:133:ASP:HB3	1:18:136:ALA:HB3	1.89	0.55
1:1:181:MET:SD	1:1:245:PHE:HB2	2.46	0.55
3:D:64:HIS:HD2	3:D:68:MET:HE2	1.71	0.55
4:I:802:LEU:HD21	4:I:805:LEU:HB3	1.89	0.55
5:J:143:VAL:H	5:J:180:ARG:HH12	1.55	0.55
4:i:343:TRP:HZ3	4:i:449:LEU:HD21	1.72	0.55
6:k:68:ASP:HB3	6:k:69:PRO:HD3	1.88	0.55
1:z:43:ARG:HE	1:z:44:GLY:N	2.05	0.55
8:p:61:TYR:O	8:p:62:ASP:C	2.50	0.55
11:l:391:ARG:C	11:l:392:LYS:HG2	2.31	0.55
13:f:813:LYS:O	13:f:817:MET:HG2	2.07	0.55
1:16:514:THR:HG22	1:16:533:THR:HG22	1.89	0.55
1:17:293:TYR:HA	1:17:354:THR:HG22	1.89	0.55
4:E:313:PHE:HB2	4:E:319:ALA:HB2	1.89	0.54
4:I:865:SER:HB3	4:I:894:GLU:HB3	1.88	0.54
4:i:163:LEU:HD13	4:i:227:ILE:HG22	1.89	0.54
5:j:134:ASP:HB3	5:j:137:GLU:HB3	1.87	0.54
1:6:8:SER:HB3	1:6:31:LYS:HG2	1.88	0.54
1:6:134:LYS:HA	1:6:137:LYS:HD2	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:501:LEU:HD13	1:8:634:LYS:HD2	1.89	0.54
1:9:189:THR:HG23	1:9:238:GLU:HB3	1.87	0.54
10:N:119:LEU:HB3	10:N:124:ILE:HD11	1.88	0.54
13:F:844:ILE:O	13:F:848:MET:HG2	2.07	0.54
13:F:1007:LEU:O	13:F:1035:LEU:HA	2.07	0.54
10:n:662:ARG:HE	10:n:663:VAL:HG13	1.72	0.54
11:l:312:THR:HB	11:l:370:ASN:HB3	1.89	0.54
14:b:472:MET:HE1	14:b:512:THR:HB	1.89	0.54
1:17:341:GLN:HG2	1:17:342:SER:H	1.72	0.54
1:18:296:MET:HE1	1:18:670:ARG:H	1.72	0.54
4:E:241:GLN:O	4:E:245:LEU:HG	2.07	0.54
4:I:343:TRP:HZ3	4:I:449:LEU:HD21	1.72	0.54
1:Z:18:LEU:HD23	1:Z:112:THR:HB	1.89	0.54
1:Z:39:SER:HB2	1:Z:66:TRP:HB2	1.89	0.54
1:Z:47:ARG:HG2	1:Z:81:ALA:HB3	1.88	0.54
3:d:64:HIS:HE1	1:11:625:ILE:HG23	1.72	0.54
5:j:127:LYS:HZ1	5:j:150:SER:HB3	1.71	0.54
1:5:495:PRO:HB3	1:5:547:ASN:HB3	1.88	0.54
1:6:340:ARG:HG2	1:6:373:LEU:HD21	1.88	0.54
12:M:342:VAL:HA	12:M:350:LYS:NZ	2.22	0.54
14:G:528:VAL:HG12	14:G:534:ILE:HD12	1.88	0.54
10:n:592:MET:HE2	10:n:592:MET:N	2.22	0.54
11:l:378:PHE:HB3	11:l:415:MET:HE2	1.88	0.54
12:m:342:VAL:HA	12:m:350:LYS:NZ	2.22	0.54
13:a:630:TRP:CE2	13:a:634:ILE:HD11	2.42	0.54
1:11:463:TRP:H	1:11:463:TRP:CD1	2.24	0.54
1:11:519:ILE:HD11	1:11:523:GLN:HG3	1.89	0.54
1:19:40:PHE:CE1	1:19:67:ARG:HB2	2.42	0.54
1:1:446:GLU:HA	1:1:449:TYR:HB2	1.88	0.54
4:E:44:THR:HG22	4:E:47:LYS:NZ	2.21	0.54
1:Z:178:LEU:HD13	1:Z:248:GLU:HB3	1.89	0.54
1:Z:345:LEU:HD21	1:Z:667:ILE:HG12	1.88	0.54
3:d:96:ARG:HB3	3:d:100:ARG:HH12	1.72	0.54
4:e:739:ILE:HG23	4:e:743:SER:HB3	1.88	0.54
4:i:748:VAL:HG13	4:i:776:TYR:CD2	2.43	0.54
1:z:97:CYS:HB3	1:z:98:PRO:HD2	1.90	0.54
1:7:293:TYR:HA	1:7:354:THR:HG22	1.89	0.54
8:P:434:MET:HB3	8:P:609:MET:HE1	1.88	0.54
11:L:299:MET:HG3	11:L:300:MET:H	1.72	0.54
10:n:323:ASN:HA	8:p:554:ALA:HB2	1.89	0.54
10:n:516:PRO:O	10:n:520:ILE:HG12	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:l:46:ARG:HG3	11:l:243:PRO:HD3	1.90	0.54
1:15:562:LYS:HG2	1:15:567:LEU:HB2	1.90	0.54
1:1:39:SER:HA	1:1:68:SER:HA	1.90	0.54
1:1:442:LYS:O	1:1:446:GLU:HG3	2.06	0.54
4:E:480:THR:HA	4:E:483:PHE:CE2	2.42	0.54
4:I:236:TRP:HE3	4:I:256:SER:HA	1.71	0.54
4:I:560:GLU:O	4:I:564:VAL:HG23	2.07	0.54
1:Z:205:GLU:HB3	1:Z:261:ILE:HG23	1.88	0.54
4:e:603:THR:HG21	4:e:607:LEU:HD12	1.89	0.54
5:j:14:PHE:HE2	5:j:35:LEU:HB3	1.72	0.54
1:5:299:THR:O	1:5:477:PRO:HB3	2.07	0.54
1:6:197:LEU:HD12	1:6:265:LEU:HD11	1.88	0.54
1:6:465:MET:HE1	1:6:599:ARG:HB2	1.89	0.54
10:N:436:PHE:CG	10:N:488:CYS:HB3	2.43	0.54
10:N:878:LEU:O	10:N:882:LEU:HG	2.07	0.54
13:a:431:CYS:SG	13:a:437:CYS:HB2	2.48	0.54
1:15:350:ALA:HB2	1:15:404:ILE:HG21	1.89	0.54
1:16:586:ASN:HD21	1:16:661:ASP:HB2	1.71	0.54
4:E:154:MET:HA	4:E:278:THR:HG22	1.89	0.54
4:E:187:CYS:O	4:E:191:VAL:HG23	2.08	0.54
4:e:776:TYR:HD1	4:e:804:HIS:HB3	1.72	0.54
5:j:254:HIS:HE1	5:j:256:CYS:HB2	1.70	0.54
8:q:222:ASN:HA	8:q:234:TRP:HB3	1.89	0.54
1:4:577:GLN:HE22	1:4:605:MET:H	1.56	0.54
1:6:130:MET:HB3	1:6:131:PRO:HD3	1.88	0.54
1:6:206:ALA:HA	1:6:209:THR:HG22	1.89	0.54
10:N:784:SER:HA	10:N:811:ASN:HA	1.89	0.54
8:P:695:LEU:HB3	8:P:703:PHE:CD1	2.41	0.54
10:n:854:LEU:HB3	10:n:887:CYS:HB2	1.90	0.54
13:a:427:LEU:HD12	13:a:430:GLN:HE21	1.73	0.54
1:11:234:LEU:HD12	1:11:235:PRO:HD2	1.89	0.54
1:19:516:PHE:HD1	1:19:621:PHE:HB2	1.73	0.54
1:14:24:GLU:HG3	1:14:78:ARG:NE	2.22	0.54
1:14:397:ARG:HB2	1:14:400:SER:HB2	1.88	0.54
1:13:122:ILE:HD13	1:13:137:LYS:HB3	1.89	0.54
1:18:391:ARG:HG3	1:18:392:GLN:H	1.72	0.54
1:1:211:VAL:HG22	1:1:247:VAL:HG22	1.90	0.54
7:O:49:VAL:HG11	8:P:437:PHE:CZ	2.42	0.54
8:Q:255:ILE:HG22	8:Q:260:ASP:HB2	1.88	0.54
8:Q:262:GLN:HG2	8:P:312:LYS:HD3	1.89	0.54
1:Z:3:PHE:CE1	1:Z:18:LEU:HB3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:469:MET:HE3	1:Z:472:PHE:CE2	2.39	0.54
1:3:494:SER:HB2	1:3:574:LEU:HD22	1.89	0.54
1:4:10:SER:HB3	1:4:13:ASN:HB2	1.89	0.54
1:5:58:ALA:HB3	1:5:60:LYS:HZ2	1.73	0.54
1:7:296:MET:HE2	1:7:670:ARG:HG3	1.88	0.54
10:n:932:ILE:HB	10:n:961:ILE:HD13	1.90	0.54
8:p:8:MET:HG3	8:p:72:LEU:HD13	1.89	0.54
13:a:935:CYS:HB2	13:a:966:ARG:HG3	1.89	0.54
14:b:490:GLY:HA2	14:b:513:ILE:HG13	1.90	0.54
1:11:49:LEU:HA	1:11:57:ILE:O	2.08	0.54
1:11:422:LEU:HG	1:11:673:PHE:HD2	1.72	0.54
1:15:299:THR:O	1:15:477:PRO:HB3	2.07	0.54
1:13:505:LYS:HG3	1:13:625:ILE:HG13	1.89	0.54
1:17:47:ARG:HD2	1:17:81:ALA:HB3	1.89	0.54
3:d:17:GLN:H	3:d:20:LEU:HB2	1.73	0.54
4:e:196:THR:HA	4:e:254:PRO:HA	1.89	0.54
4:e:576:VAL:HG13	4:e:602:SER:HB3	1.90	0.54
4:e:914:GLU:HA	4:e:937:PHE:HZ	1.73	0.54
4:i:802:LEU:HD21	4:i:805:LEU:HB3	1.89	0.54
7:o:49:VAL:HG11	8:p:437:PHE:CZ	2.42	0.54
1:5:37:CYS:SG	1:5:95:TYR:HB3	2.48	0.54
1:5:79:MET:HE2	1:5:113:GLY:HA3	1.89	0.54
1:5:544:ARG:HA	1:5:547:ASN:HD22	1.72	0.54
1:6:211:VAL:HG13	1:6:247:VAL:HG22	1.89	0.54
1:9:140:TRP:CD1	1:9:148:GLY:HA3	2.43	0.54
10:N:592:MET:HE2	10:N:592:MET:N	2.22	0.54
11:L:378:PHE:HB3	11:L:415:MET:HE2	1.89	0.54
13:A:630:TRP:CE2	13:A:634:ILE:HD11	2.42	0.54
11:l:222:TYR:HA	11:l:225:LEU:HD12	1.90	0.54
13:a:864:LEU:HB3	13:a:867:ASN:HD21	1.71	0.54
1:15:515:LEU:HD22	1:15:601:TYR:HE2	1.72	0.54
1:16:11:LEU:HG	1:16:32:CYS:HB2	1.89	0.54
1:16:102:VAL:HG21	1:17:676:LYS:HE3	1.88	0.54
1:16:197:LEU:HD12	1:16:265:LEU:HD11	1.89	0.54
1:17:255:PRO:HG3	1:17:446:GLU:HB3	1.89	0.54
4:E:914:GLU:HA	4:E:937:PHE:HZ	1.73	0.54
1:Z:197:LEU:HD13	1:Z:237:PHE:HE2	1.71	0.54
1:Z:619:LYS:HG2	1:Z:621:PHE:H	1.72	0.54
4:e:170:TRP:HB2	4:e:176:PHE:HD2	1.73	0.54
4:e:241:GLN:O	4:e:245:LEU:HG	2.07	0.54
4:e:305:MET:HG3	4:e:336:CYS:SG	2.48	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:643:THR:HB	4:e:672:VAL:HG13	1.90	0.54
4:e:733:CYS:HB3	4:e:763:LEU:HB2	1.90	0.54
7:o:98:THR:HG23	7:o:101:LYS:HE3	1.89	0.54
1:2:577:GLN:HE21	1:2:604:ASP:HA	1.72	0.54
1:5:43:ARG:HG3	1:5:44:GLY:H	1.72	0.54
1:5:260:LEU:HD21	1:5:289:ARG:CZ	2.38	0.54
1:7:122:ILE:HG23	1:7:148:GLY:HA2	1.90	0.54
1:8:175:ILE:HA	1:8:178:LEU:HD13	1.90	0.54
1:9:516:PHE:HD1	1:9:621:PHE:HB2	1.72	0.54
1:9:548:THR:HG22	1:9:552:LYS:HE3	1.90	0.54
1:12:116:ILE:HA	1:12:184:THR:O	2.08	0.54
10:N:396:LEU:HG	10:N:459:VAL:HG11	1.90	0.54
13:F:818:LYS:HG2	13:F:848:MET:HE3	1.90	0.54
10:n:436:PHE:CG	10:n:488:CYS:HB3	2.43	0.54
13:a:1110:GLN:HG3	13:a:1137:VAL:HG22	1.90	0.54
14:b:520:PRO:HD3	14:b:559:MET:HE3	1.89	0.54
1:15:260:LEU:HD21	1:15:289:ARG:CZ	2.38	0.54
1:15:261:ILE:HG13	1:15:288:PHE:HB2	1.90	0.54
1:15:476:VAL:HG23	1:15:478:THR:HG23	1.89	0.54
1:16:211:VAL:HG22	1:16:247:VAL:HG13	1.88	0.54
1:17:3:PHE:HB2	1:17:281:LEU:HD22	1.90	0.54
1:17:377:PRO:O	1:17:381:THR:HG23	2.08	0.54
1:18:550:VAL:HG11	1:18:579:PHE:CD2	2.43	0.54
2:C:22:VAL:HG23	2:C:23:LEU:H	1.73	0.54
4:E:36:LEU:HD23	4:E:38:LEU:HD11	1.90	0.54
4:E:170:TRP:HB2	4:E:176:PHE:HD2	1.73	0.54
4:E:196:THR:HA	4:E:254:PRO:HA	1.89	0.54
5:J:47:GLN:HG2	5:J:60:LEU:HD21	1.89	0.54
4:e:411:VAL:HA	4:e:447:ILE:HG22	1.90	0.54
4:e:711:LEU:HD21	4:e:721:LEU:HD22	1.88	0.54
5:j:140:ILE:HG21	5:j:143:VAL:HG23	1.89	0.54
1:3:295:PHE:CZ	1:3:404:ILE:HD11	2.42	0.54
1:6:52:ILE:HB	1:6:55:SER:HB2	1.90	0.54
14:G:438:LYS:HG3	14:G:439:ASP:H	1.73	0.54
1:1:122:ILE:HD11	1:1:132:SER:HB3	1.89	0.54
3:D:17:GLN:H	3:D:20:LEU:HB2	1.73	0.54
8:Q:249:ARG:HE	8:Q:271:VAL:HG21	1.73	0.54
2:c:123:VAL:HA	2:c:126:VAL:HB	1.89	0.54
4:e:337:GLN:O	4:e:339:PRO:HD3	2.09	0.54
4:e:567:MET:SD	4:e:593:CYS:HA	2.48	0.54
4:i:126:ILE:HG22	4:i:128:ASN:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:226:PHE:HB2	4:i:273:LEU:HA	1.89	0.54
1:z:465:MET:SD	1:z:597:PHE:HB2	2.48	0.54
1:2:2:SER:HA	1:2:281:LEU:HD21	1.89	0.54
1:9:188:PRO:O	1:9:192:LEU:HG	2.07	0.54
1:12:45:SER:HB3	1:12:48:ILE:HB	1.88	0.54
1:12:47:ARG:NH2	1:12:88:GLU:HG3	2.23	0.54
10:N:439:LEU:HD11	10:N:459:VAL:HG13	1.89	0.54
12:M:420:SER:O	12:M:424:GLN:HG2	2.08	0.54
13:F:862:LEU:HD21	13:F:864:LEU:HG	1.90	0.54
12:m:202:ILE:HA	12:m:299:MET:HE1	1.90	0.54
1:19:408:MET:SD	1:19:469:MET:HB2	2.48	0.54
1:16:478:THR:HG22	1:16:644:LEU:HD11	1.90	0.54
4:E:305:MET:HG3	4:E:336:CYS:SG	2.48	0.53
4:E:643:THR:HB	4:E:672:VAL:HG13	1.90	0.53
4:E:831:LEU:HD21	4:E:834:LEU:HB2	1.90	0.53
4:I:149:VAL:HG22	4:I:293:ASP:HB3	1.90	0.53
4:I:542:GLN:HE22	4:I:571:GLN:HG3	1.73	0.53
4:I:778:VAL:HG13	4:I:806:ASP:HB3	1.90	0.53
4:e:480:THR:HA	4:e:483:PHE:CE2	2.42	0.53
5:j:143:VAL:H	5:j:180:ARG:HH12	1.56	0.53
1:z:189:THR:HA	1:z:192:LEU:HB3	1.91	0.53
1:2:116:ILE:HA	1:2:184:THR:O	2.08	0.53
1:2:200:HIS:HB2	1:2:231:VAL:HG22	1.90	0.53
1:3:9:LEU:HG	1:3:27:LEU:HG	1.89	0.53
1:3:605:MET:HA	1:3:618:PRO:HD2	1.91	0.53
1:6:124:ARG:HE	1:6:150:ILE:HD11	1.73	0.53
1:7:4:GLN:HG3	1:7:6:SER:H	1.72	0.53
1:7:305:VAL:HG22	1:7:668:ILE:HG12	1.89	0.53
1:7:341:GLN:HG2	1:7:342:SER:H	1.73	0.53
1:7:377:PRO:O	1:7:381:THR:HG23	2.08	0.53
1:8:550:VAL:HG11	1:8:579:PHE:CD2	2.43	0.53
11:L:302:ALA:HB2	11:L:377:LEU:HB2	1.90	0.53
12:M:2:ARG:HH21	12:M:250:LEU:HG	1.72	0.53
13:F:842:THR:CG2	13:F:845:GLY:H	2.20	0.53
13:f:602:LEU:O	13:f:603:MET:HE2	2.09	0.53
13:f:815:ASP:HA	13:f:818:LYS:HE2	1.90	0.53
13:f:1102:MET:HE2	13:f:1102:MET:N	2.23	0.53
14:g:438:LYS:HG3	14:g:439:ASP:H	1.73	0.53
1:19:118:LEU:HD11	1:19:181:MET:HG2	1.89	0.53
1:19:188:PRO:O	1:19:192:LEU:HG	2.08	0.53
1:15:546:GLN:HG2	1:15:581:LEU:HD12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:14:302:PRO:HA	1:14:670:ARG:HG2	1.91	0.53
1:13:116:ILE:HG12	1:13:185:VAL:HG22	1.89	0.53
4:E:338:VAL:HG12	4:E:341:LEU:H	1.73	0.53
4:E:411:VAL:HA	4:E:447:ILE:HG22	1.90	0.53
4:E:424:ASP:HA	4:E:427:ILE:HG12	1.90	0.53
4:E:576:VAL:HG13	4:E:602:SER:HB3	1.90	0.53
4:I:397:LEU:HA	4:I:422:ILE:HD11	1.90	0.53
7:O:4:LYS:HG2	8:P:717:GLN:HE21	1.73	0.53
4:e:187:CYS:O	4:e:191:VAL:HG23	2.08	0.53
4:i:340:LEU:HD23	4:i:450:HIS:HD2	1.74	0.53
5:j:354:LYS:HZ1	5:j:409:TRP:HB3	1.73	0.53
6:k:16:VAL:HG13	6:k:59:ILE:HG12	1.90	0.53
1:4:469:MET:N	1:4:469:MET:HE2	2.23	0.53
1:4:577:GLN:HA	1:4:602:PHE:HZ	1.73	0.53
1:7:469:MET:HE2	1:7:472:PHE:CE1	2.43	0.53
1:8:463:TRP:CD1	1:8:553:CYS:HG	2.26	0.53
8:P:339:CYS:SG	8:P:364:TRP:NE1	2.82	0.53
11:L:16:ILE:HG12	11:L:226:ASN:HB3	1.90	0.53
12:M:311:LEU:O	12:M:350:LYS:HD2	2.07	0.53
13:A:431:CYS:SG	13:A:437:CYS:HB2	2.48	0.53
10:n:768:LEU:HD12	10:n:796:ALA:HB1	1.90	0.53
8:p:39:GLU:HB2	8:p:42:LEU:HB2	1.89	0.53
8:p:347:HIS:HD2	8:p:349:TYR:HD2	1.55	0.53
1:19:174:GLU:O	1:19:178:LEU:HG	2.06	0.53
1:18:97:CYS:HB3	1:18:98:PRO:HD2	1.90	0.53
4:E:516:PHE:HB3	4:E:519:ARG:HB2	1.91	0.53
4:E:778:VAL:HG22	4:E:806:ASP:HB3	1.90	0.53
4:I:574:ASN:HA	4:I:600:SER:HB3	1.90	0.53
1:Z:131:PRO:HA	1:8:43:ARG:NH1	2.20	0.53
4:i:574:ASN:HA	4:i:600:SER:HB3	1.90	0.53
5:j:251:SER:HB2	5:j:286:CYS:SG	2.49	0.53
5:j:446:GLN:HE21	5:j:458:MET:HE2	1.73	0.53
1:z:621:PHE:CE2	1:z:652:PHE:HB2	2.40	0.53
1:12:497:ALA:O	1:12:500:GLU:HG3	2.09	0.53
10:N:854:LEU:HB3	10:N:887:CYS:HB2	1.90	0.53
11:L:286:VAL:HG11	11:L:326:VAL:HA	1.89	0.53
12:M:46:ARG:HD3	12:M:240:LEU:O	2.08	0.53
10:n:439:LEU:HD11	10:n:459:VAL:HG13	1.90	0.53
8:p:691:VAL:HG13	8:p:703:PHE:HE1	1.73	0.53
11:l:36:TYR:CG	11:l:41:ASP:HB3	2.44	0.53
1:19:41:THR:HB	1:19:64:VAL:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:19:599:ARG:HE	1:19:656:LEU:HD22	1.73	0.53
1:15:69:MET:HE1	1:15:95:TYR:HD2	1.72	0.53
1:14:11:LEU:HG	1:14:32:CYS:HB2	1.91	0.53
1:13:295:PHE:CZ	1:13:404:ILE:HD11	2.43	0.53
1:18:175:ILE:HG21	1:18:221:TYR:CE2	2.44	0.53
1:18:490:LEU:HD21	1:18:561:LEU:HD13	1.90	0.53
4:E:337:GLN:O	4:E:339:PRO:HD3	2.07	0.53
4:E:776:TYR:HD1	4:E:804:HIS:HB3	1.72	0.53
2:H:86:LEU:HD11	13:F:714:LEU:HD21	1.89	0.53
4:e:424:ASP:HA	4:e:427:ILE:HG12	1.91	0.53
4:e:516:PHE:HB3	4:e:519:ARG:HB2	1.91	0.53
2:h:86:LEU:HD11	13:f:714:LEU:HD21	1.90	0.53
8:q:224:ASN:ND2	8:q:233:PHE:H	2.07	0.53
1:4:502:PHE:HZ	1:4:515:LEU:HD21	1.71	0.53
1:5:546:GLN:HG2	1:5:581:LEU:HD12	1.90	0.53
1:7:397:ARG:HB3	1:7:591:GLN:NE2	2.23	0.53
1:9:226:GLY:H	1:9:229:LYS:HD2	1.73	0.53
11:L:36:TYR:CG	11:L:41:ASP:HB3	2.44	0.53
10:n:350:LEU:O	10:n:351:ARG:C	2.51	0.53
10:n:409:GLU:HB2	10:n:412:GLU:HG3	1.89	0.53
11:l:391:ARG:HH12	12:m:347:ASN:HB2	1.74	0.53
1:19:21:VAL:HG22	1:19:79:MET:HG3	1.90	0.53
1:15:523:GLN:HE21	1:15:653:ASP:H	1.57	0.53
2:H:52:TRP:HB2	2:H:85:ASN:HD21	1.72	0.53
6:K:145:PHE:CZ	6:K:149:GLU:HB3	2.44	0.53
8:Q:227:TYR:CD2	8:Q:230:LYS:HE2	2.43	0.53
3:d:50:LEU:HD21	3:d:113:LEU:HD22	1.90	0.53
6:k:145:PHE:CZ	6:k:149:GLU:HB3	2.42	0.53
8:q:227:TYR:CD2	8:q:230:LYS:HE2	2.44	0.53
1:4:676:LYS:HE2	1:5:102:VAL:HG22	1.90	0.53
1:5:19:CYS:O	1:5:113:GLY:HA2	2.09	0.53
1:5:277:PRO:HD3	1:6:581:LEU:HD13	1.91	0.53
1:15:514:THR:HA	1:15:533:THR:HA	1.90	0.53
1:14:422:LEU:HD12	1:14:453:VAL:HB	1.91	0.53
1:13:30:SER:HA	1:13:33:ALA:HB3	1.91	0.53
1:13:529:ARG:HH21	1:13:656:LEU:HD22	1.74	0.53
1:1:519:ILE:HD11	1:1:523:GLN:HG3	1.88	0.53
1:Z:49:LEU:HB3	1:Z:78:ARG:HB3	1.91	0.53
1:Z:52:ILE:HG23	1:Z:55:SER:HB2	1.91	0.53
1:Z:124:ARG:HH21	1:Z:147:TRP:C	2.17	0.53
4:e:36:LEU:HD23	4:e:38:LEU:HD11	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:862:LEU:HG	4:e:864:VAL:HG13	1.90	0.53
4:i:919:LEU:HD23	4:i:921:LEU:HD11	1.90	0.53
5:j:243:PRO:HD3	5:j:291:TRP:HB3	1.90	0.53
6:k:27:ILE:HA	6:k:30:MET:HG2	1.89	0.53
8:q:255:ILE:HG22	8:q:260:ASP:HB2	1.89	0.53
1:2:302:PRO:HG2	1:2:329:VAL:HG11	1.89	0.53
1:6:18:LEU:HD23	1:6:112:THR:HB	1.89	0.53
1:6:226:GLY:H	1:6:229:LYS:HD2	1.73	0.53
12:M:394:PHE:HB3	12:M:402:GLY:N	2.24	0.53
13:F:600:PHE:CG	13:F:652:CYS:HB3	2.43	0.53
13:F:706:LEU:HD21	13:F:760:ALA:HB1	1.91	0.53
1:11:295:PHE:HB3	1:11:409:VAL:HG21	1.90	0.53
1:15:368:PRO:HD2	1:15:392:GLN:HA	1.90	0.53
1:14:5:ASN:HA	1:14:25:ILE:HG23	1.90	0.53
1:13:494:SER:HB2	1:13:574:LEU:HD22	1.89	0.53
1:18:9:LEU:HD12	1:18:29:ILE:HA	1.90	0.53
1:18:11:LEU:HA	1:18:107:ALA:HB2	1.91	0.53
4:E:245:LEU:HD22	4:E:260:SER:HB3	1.91	0.53
4:I:792:LEU:HD22	4:I:820:LEU:HD22	1.91	0.53
8:Q:250:GLU:HA	8:Q:267:ARG:HD3	1.90	0.53
1:Z:524:LEU:HB2	1:Z:529:ARG:HB2	1.90	0.53
4:i:720:LYS:HE2	4:i:748:VAL:HG21	1.91	0.53
1:5:410:SER:HB3	1:5:426:LEU:HD21	1.91	0.53
1:7:618:PRO:HB3	1:7:655:TYR:CZ	2.44	0.53
10:N:824:SER:O	10:N:827:GLN:HG2	2.09	0.53
12:M:149:THR:HG21	12:M:191:GLN:HB3	1.89	0.53
13:A:427:LEU:HD12	13:A:430:GLN:HE21	1.73	0.53
10:n:824:SER:O	10:n:827:GLN:HG2	2.09	0.53
11:l:286:VAL:HG11	11:l:326:VAL:HA	1.91	0.53
1:16:150:ILE:HG23	1:16:291:ALA:HB2	1.91	0.53
1:16:268:VAL:HA	1:16:280:PRO:HA	1.90	0.53
1:14:502:PHE:HZ	1:14:515:LEU:HD21	1.74	0.53
1:1:297:PRO:HA	1:1:409:VAL:HB	1.91	0.53
2:C:78:VAL:HG22	2:C:89:ILE:HG12	1.91	0.53
5:J:446:GLN:HE21	5:J:458:MET:HE2	1.73	0.53
4:e:611:ASP:O	4:e:615:MET:HG2	2.09	0.53
4:e:778:VAL:HG22	4:e:806:ASP:HB3	1.91	0.53
4:i:151:LEU:HD21	4:i:297:ALA:HB2	1.90	0.53
5:j:451:ARG:NH2	13:f:856:THR:HG23	2.24	0.53
6:k:68:ASP:OD1	12:m:340:TYR:HB2	2.08	0.53
1:3:529:ARG:HH21	1:3:656:LEU:HD22	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:523:GLN:HE21	1:5:653:ASP:H	1.57	0.53
1:6:130:MET:HB3	1:6:131:PRO:CD	2.39	0.53
1:8:20:MET:HE2	1:8:282:TYR:HD2	1.73	0.53
1:8:138:LYS:HG2	1:8:285:THR:HB	1.91	0.53
1:12:5:ASN:HA	1:12:25:ILE:HG12	1.91	0.53
1:12:83:SER:HB3	1:12:88:GLU:HB3	1.90	0.53
1:12:621:PHE:HE2	1:12:652:PHE:HB2	1.73	0.53
10:N:323:ASN:HA	8:P:554:ALA:HB2	1.89	0.53
11:L:4:ILE:HD11	11:L:131:GLN:HB2	1.90	0.53
11:L:312:THR:HB	11:L:370:ASN:HB3	1.89	0.53
12:M:361:LEU:HG	12:M:362:LYS:HG2	1.91	0.53
13:F:250:ARG:O	13:F:253:VAL:HG22	2.09	0.53
10:n:556:ALA:O	10:n:560:VAL:HG23	2.09	0.53
12:m:311:LEU:O	12:m:350:LYS:HD2	2.07	0.53
13:a:676:ILE:HD12	13:a:681:ASP:HB3	1.90	0.53
14:b:474:LEU:HD13	14:b:485:LEU:HG	1.91	0.53
1:11:91:VAL:CG1	1:11:109:LEU:HB3	2.39	0.53
1:19:561:LEU:HD13	1:19:565:LEU:HD13	1.91	0.53
1:15:297:PRO:HG2	1:15:300:GLN:HB2	1.90	0.53
1:16:340:ARG:HG2	1:16:373:LEU:HD21	1.89	0.53
4:E:657:LEU:HD23	4:E:662:PHE:CE2	2.44	0.53
4:I:414:LYS:HB3	4:I:418:ARG:HH21	1.74	0.53
4:I:439:ILE:HG22	4:I:442:PHE:H	1.74	0.53
4:e:188:CYS:HB3	4:e:234:MET:HG2	1.91	0.53
4:e:708:CYS:HA	4:e:711:LEU:HD12	1.91	0.53
1:z:301:MET:HE2	1:z:301:MET:HA	1.91	0.53
1:5:514:THR:HA	1:5:533:THR:HA	1.90	0.53
1:6:478:THR:HG22	1:6:644:LEU:HD11	1.90	0.53
1:7:144:MET:HE1	1:7:679:LYS:HD3	1.90	0.53
1:7:319:SER:HB2	1:7:649:ILE:HG23	1.91	0.53
1:9:402:ASP:HA	1:9:440:MET:HG2	1.91	0.53
8:P:539:VAL:HG21	8:P:563:TYR:CD2	2.44	0.53
11:L:222:TYR:HA	11:L:225:LEU:HD12	1.90	0.53
10:n:784:SER:HA	10:n:811:ASN:HA	1.90	0.53
11:l:170:MET:HB2	11:l:203:ASP:HA	1.91	0.53
13:f:600:PHE:CG	13:f:652:CYS:HB3	2.44	0.53
1:11:91:VAL:HG12	1:11:109:LEU:HB3	1.90	0.53
1:19:18:LEU:HD21	1:19:191:ILE:HD13	1.91	0.53
1:15:52:ILE:HG23	1:15:55:SER:HB2	1.91	0.53
1:15:277:PRO:HD3	1:16:581:LEU:HD13	1.91	0.53
1:13:334:VAL:HG11	1:13:345:LEU:HD13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:18:134:LYS:O	1:18:135:GLN:HG3	2.09	0.53
1:1:60:LYS:NZ	1:3:78:ARG:HB3	2.24	0.53
4:I:635:ILE:HB	4:I:662:PHE:HE1	1.73	0.53
5:J:14:PHE:HE2	5:J:35:LEU:HB3	1.73	0.53
5:J:20:TYR:H	5:J:24:GLN:H	1.57	0.53
8:Q:206:THR:C	8:Q:275:LEU:HG	2.34	0.53
1:Z:124:ARG:HH11	1:Z:678:TRP:CD1	2.27	0.53
4:e:15:ARG:HA	4:e:51:ARG:CZ	2.38	0.53
4:e:151:LEU:HD12	4:e:276:SER:HB3	1.91	0.53
4:e:245:LEU:HD22	4:e:260:SER:HB3	1.91	0.53
2:h:108:MET:HE2	2:h:108:MET:HA	1.90	0.53
4:i:299:ALA:HA	4:i:339:PRO:HD3	1.91	0.53
4:i:542:GLN:HE22	4:i:571:GLN:HG3	1.73	0.53
5:j:47:GLN:HG2	5:j:60:LEU:HD21	1.90	0.53
6:k:63:THR:HG23	6:k:66:LYS:HE2	1.91	0.53
8:q:249:ARG:HE	8:q:271:VAL:HG21	1.73	0.53
1:z:51:HIS:CE1	1:z:56:VAL:HG22	2.43	0.53
1:2:262:SER:HA	1:2:287:MET:HA	1.91	0.53
1:4:50:ILE:HG12	1:4:77:VAL:HG22	1.89	0.53
1:8:189:THR:HA	1:8:192:LEU:HD12	1.91	0.53
10:N:940:ARG:HE	10:N:967:ASP:HB2	1.73	0.53
11:L:101:TRP:CD1	11:L:146:GLY:H	2.26	0.53
10:n:132:PHE:HB3	10:n:182:TRP:HB2	1.90	0.53
10:n:396:LEU:HG	10:n:459:VAL:HG11	1.90	0.53
8:p:506:LEU:HD21	8:p:521:ILE:HD11	1.90	0.53
11:l:86:ARG:HG2	11:l:88:ASP:H	1.74	0.53
11:l:302:ALA:HB2	11:l:377:LEU:HB2	1.91	0.53
13:a:400:ARG:CZ	13:a:432:GLN:HA	2.39	0.53
1:19:82:PRO:HG3	1:19:186:GLU:HB3	1.91	0.53
1:19:548:THR:HG22	1:19:552:LYS:HE3	1.90	0.53
1:16:489:ARG:HD2	1:16:573:ILE:HG12	1.91	0.53
4:E:242:GLU:HA	4:E:245:LEU:HD12	1.92	0.52
4:E:611:ASP:O	4:E:615:MET:HG2	2.09	0.52
5:J:151:ILE:HD11	5:J:165:THR:HB	1.91	0.52
7:O:74:TYR:HB2	7:O:141:TRP:CE3	2.44	0.52
4:e:242:GLU:HA	4:e:245:LEU:HD12	1.91	0.52
4:e:831:LEU:HD21	4:e:834:LEU:HB2	1.91	0.52
4:i:577:ALA:HA	4:i:582:ASP:HB3	1.91	0.52
4:i:635:ILE:HB	4:i:662:PHE:HE1	1.73	0.52
1:4:24:GLU:HG3	1:4:78:ARG:NE	2.24	0.52
1:5:368:PRO:HD2	1:5:392:GLN:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:478:THR:HG23	1:8:480:ASP:H	1.73	0.52
1:9:151:LEU:HD11	1:9:288:PHE:CD2	2.43	0.52
8:P:324:CYS:SG	8:P:347:HIS:HB3	2.49	0.52
10:n:662:ARG:NE	10:n:663:VAL:HG13	2.25	0.52
8:p:539:VAL:HG21	8:p:563:TYR:CD2	2.44	0.52
13:a:224:PRO:HA	13:a:227:LYS:HB3	1.91	0.52
13:f:947:ARG:HA	13:f:975:HIS:O	2.09	0.52
1:11:3:PHE:CE1	1:11:23:MET:HE3	2.43	0.52
1:19:95:TYR:HB2	1:19:105:ALA:HB3	1.90	0.52
1:19:157:PRO:HG3	1:19:388:TYR:HB2	1.91	0.52
1:17:319:SER:HB2	1:17:649:ILE:HG23	1.91	0.52
1:1:91:VAL:HG12	1:1:109:LEU:HB3	1.91	0.52
1:1:295:PHE:HB3	1:1:409:VAL:HG21	1.92	0.52
1:1:297:PRO:HD3	1:1:673:PHE:CZ	2.45	0.52
4:E:463:MET:HE2	4:E:520:LEU:HD13	1.92	0.52
4:I:263:LEU:HB2	4:I:289:ILE:HD13	1.92	0.52
4:I:273:LEU:HD23	4:I:275:LEU:HD21	1.90	0.52
8:Q:257:LEU:HD12	8:P:55:GLY:HA2	1.92	0.52
2:c:22:VAL:HG23	2:c:23:LEU:H	1.73	0.52
2:c:78:VAL:HG22	2:c:89:ILE:HG12	1.91	0.52
4:i:108:ASP:HA	4:i:440:ARG:HH21	1.74	0.52
4:i:904:GLU:HB2	9:r:66:GLN:HE22	1.70	0.52
7:o:4:LYS:HG2	8:p:717:GLN:HE21	1.73	0.52
1:z:310:GLU:HA	1:z:336:GLU:OE2	2.09	0.52
1:z:675:PHE:CE2	1:z:680:MET:HB3	2.44	0.52
1:2:38:LYS:C	1:2:69:MET:HB3	2.35	0.52
1:2:621:PHE:HE2	1:2:652:PHE:HB2	1.74	0.52
1:4:302:PRO:HA	1:4:670:ARG:HG2	1.91	0.52
1:4:422:LEU:HD12	1:4:453:VAL:HB	1.91	0.52
1:7:577:GLN:NE2	1:7:604:ASP:HA	2.25	0.52
10:N:241:TYR:HA	10:N:244:HIS:CD2	2.41	0.52
8:P:306:PRO:HG3	8:P:312:LYS:HD2	1.91	0.52
8:P:506:LEU:HD21	8:P:521:ILE:HD11	1.90	0.52
8:P:691:VAL:HG13	8:P:703:PHE:HE1	1.74	0.52
13:A:784:GLU:OE2	13:A:786:VAL:HG12	2.09	0.52
13:A:1012:LEU:HB2	13:A:1038:ASN:HB3	1.90	0.52
14:B:490:GLY:HA2	14:B:513:ILE:HG13	1.90	0.52
13:F:1102:MET:HE2	13:F:1102:MET:N	2.23	0.52
8:p:764:ASN:HB3	8:p:767:LEU:HG	1.90	0.52
11:l:16:ILE:HG12	11:l:226:ASN:HB3	1.91	0.52
13:a:784:GLU:OE2	13:a:786:VAL:HG12	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:a:1012:LEU:HB2	13:a:1038:ASN:HB3	1.91	0.52
1:11:319:SER:CB	1:11:649:ILE:HD12	2.39	0.52
1:16:516:PHE:HB3	1:16:519:ILE:HB	1.91	0.52
1:14:577:GLN:HA	1:14:602:PHE:HZ	1.73	0.52
6:K:27:ILE:O	6:K:31:LEU:HG	2.10	0.52
1:Z:30:SER:HA	1:Z:33:ALA:HB3	1.91	0.52
1:Z:603:PRO:HB3	1:Z:655:TYR:HB3	1.92	0.52
4:i:439:ILE:HG22	4:i:442:PHE:H	1.74	0.52
4:i:792:LEU:HD22	4:i:820:LEU:HD22	1.91	0.52
5:j:155:THR:HG22	5:j:164:VAL:HB	1.92	0.52
1:3:116:ILE:HG12	1:3:185:VAL:HG22	1.91	0.52
1:5:114:ILE:HG12	1:5:191:ILE:HG21	1.92	0.52
1:8:502:PHE:HB3	1:8:538:LEU:HD11	1.91	0.52
1:9:40:PHE:HB3	1:9:69:MET:SD	2.50	0.52
1:12:38:LYS:HB2	1:12:98:PRO:HA	1.91	0.52
10:N:932:ILE:HB	10:N:961:ILE:HD13	1.90	0.52
11:L:418:LEU:O	11:L:421:GLU:HG3	2.08	0.52
10:n:940:ARG:HE	10:n:967:ASP:HB2	1.73	0.52
11:l:296:SER:HA	11:l:300:MET:HE1	1.92	0.52
13:a:427:LEU:HA	13:a:430:GLN:HE21	1.75	0.52
13:f:862:LEU:HD21	13:f:864:LEU:HG	1.91	0.52
1:15:19:CYS:O	1:15:113:GLY:HA2	2.09	0.52
1:16:546:GLN:HG2	1:16:581:LEU:HB2	1.89	0.52
1:14:1:MET:HB2	1:14:18:LEU:HD11	1.91	0.52
1:14:549:TYR:HB2	1:13:276:ILE:HG23	1.92	0.52
1:17:577:GLN:NE2	1:17:604:ASP:HA	2.24	0.52
1:18:621:PHE:HE2	1:18:652:PHE:HB2	1.74	0.52
1:1:599:ARG:HG3	1:1:600:PRO:HD2	1.92	0.52
4:E:42:SER:HB3	4:E:45:LYS:HG3	1.91	0.52
4:E:733:CYS:HB3	4:E:763:LEU:HB2	1.90	0.52
6:K:101:PHE:HA	6:K:104:ILE:HD12	1.91	0.52
8:Q:203:ARG:HB3	8:Q:283:ARG:NH1	2.20	0.52
8:Q:225:VAL:HG12	8:Q:259:ASN:HA	1.92	0.52
1:Z:624:LYS:HA	1:Z:629:CYS:HA	1.92	0.52
4:e:371:THR:HG21	4:e:503:LEU:HD21	1.91	0.52
4:i:414:LYS:HB3	4:i:418:ARG:HH21	1.74	0.52
4:i:465:LYS:HE3	4:i:520:LEU:H	1.75	0.52
4:i:778:VAL:HG13	4:i:806:ASP:HB3	1.90	0.52
8:q:257:LEU:HD12	8:p:55:GLY:HA2	1.92	0.52
1:2:460:PHE:HB3	1:2:557:ASN:HD21	1.74	0.52
1:3:625:ILE:HG12	1:3:626:ASN:CG	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:211:VAL:HB	1:7:225:VAL:HB	1.91	0.52
1:9:18:LEU:HD21	1:9:191:ILE:HD13	1.91	0.52
1:12:43:ARG:HD2	1:12:64:VAL:HG12	1.91	0.52
1:12:262:SER:HA	1:12:287:MET:HA	1.92	0.52
10:N:662:ARG:NE	10:N:663:VAL:HG13	2.25	0.52
10:N:949:LEU:HB2	10:N:977:ILE:HG12	1.90	0.52
8:P:27:GLU:HA	8:P:30:LYS:HD2	1.91	0.52
13:A:224:PRO:HA	13:A:227:LYS:HB3	1.91	0.52
13:A:1110:GLN:HG3	13:A:1137:VAL:HG22	1.91	0.52
13:F:1123:LYS:HE2	13:F:1146:ILE:HD13	1.91	0.52
8:p:423:PHE:HB3	8:p:463:TYR:CE1	2.45	0.52
12:m:46:ARG:HD3	12:m:240:LEU:O	2.08	0.52
1:11:599:ARG:HG3	1:11:600:PRO:HD2	1.91	0.52
1:19:314:GLN:HE22	1:19:663:CYS:HA	1.73	0.52
1:15:33:ALA:HB1	1:15:69:MET:SD	2.49	0.52
1:16:226:GLY:H	1:16:229:LYS:HD2	1.74	0.52
1:16:296:MET:HG2	1:16:670:ARG:HB2	1.92	0.52
1:14:469:MET:N	1:14:469:MET:HE2	2.24	0.52
1:13:189:THR:HA	1:13:192:LEU:HB3	1.92	0.52
1:17:122:ILE:HG23	1:17:148:GLY:HA2	1.90	0.52
1:17:397:ARG:HB3	1:17:591:GLN:NE2	2.25	0.52
4:I:163:LEU:HD13	4:I:227:ILE:HG22	1.91	0.52
4:I:694:LEU:HD13	4:I:699:LEU:HD11	1.91	0.52
4:I:731:ASP:O	4:I:735:ILE:HG12	2.09	0.52
7:O:118:PRO:HB3	7:O:124:ALA:HB2	1.91	0.52
4:i:731:ASP:O	4:i:735:ILE:HG12	2.09	0.52
5:j:330:LYS:HG3	12:m:212:PHE:HZ	1.74	0.52
1:z:204:GLU:O	1:z:208:LYS:HG2	2.09	0.52
1:2:118:LEU:HD11	1:2:265:LEU:HB3	1.90	0.52
1:2:497:ALA:O	1:2:500:GLU:HG3	2.09	0.52
1:5:344:TRP:O	1:5:348:GLU:HB2	2.10	0.52
1:5:350:ALA:HB2	1:5:404:ILE:HG21	1.90	0.52
1:5:555:SER:HA	1:5:558:ARG:HG2	1.91	0.52
10:N:768:LEU:HD12	10:N:796:ALA:HB1	1.90	0.52
8:P:361:GLU:HB2	8:P:364:TRP:CD1	2.45	0.52
14:B:306:ARG:HB3	14:B:321:LEU:HB2	1.92	0.52
13:F:547:SER:OG	13:F:551:LEU:HD12	2.10	0.52
13:F:600:PHE:CD1	13:F:652:CYS:HB3	2.45	0.52
13:F:602:LEU:O	13:F:603:MET:HE2	2.08	0.52
8:p:27:GLU:HA	8:p:30:LYS:HD2	1.91	0.52
12:m:290:THR:HB	12:m:329:GLN:HE21	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:m:394:PHE:HB3	12:m:402:GLY:N	2.24	0.52
13:a:404:VAL:O	13:a:408:ILE:HG23	2.09	0.52
1:15:213:TRP:HE3	1:15:224:VAL:HG11	1.75	0.52
1:16:52:ILE:HB	1:16:55:SER:HB2	1.92	0.52
1:14:588:PRO:HG2	1:14:591:GLN:HB2	1.92	0.52
4:E:149:VAL:HB	4:E:274:LEU:HA	1.91	0.52
4:I:577:ALA:HA	4:I:582:ASP:HB3	1.92	0.52
4:I:720:LYS:HE2	4:I:748:VAL:HG21	1.91	0.52
4:I:904:GLU:HG3	9:R:57:TRP:CD2	2.44	0.52
5:J:46:CYS:HB2	5:J:66:TRP:HE1	1.74	0.52
5:J:155:THR:HG22	5:J:164:VAL:HB	1.92	0.52
3:d:64:HIS:CE1	1:11:625:ILE:HG23	2.45	0.52
4:e:587:ALA:HA	4:e:590:LEU:HB2	1.91	0.52
5:j:219:ARG:HB2	5:j:226:ILE:HD11	1.92	0.52
1:z:212:TYR:HB3	1:z:221:TYR:HB3	1.91	0.52
1:z:389:LEU:HD12	1:z:390:ILE:N	2.24	0.52
1:2:408:MET:HE2	1:2:469:MET:SD	2.50	0.52
1:3:175:ILE:HG21	1:3:221:TYR:CE2	2.45	0.52
1:3:532:LYS:HD3	1:3:536:GLN:HE22	1.75	0.52
1:4:11:LEU:HG	1:4:32:CYS:HB2	1.92	0.52
1:7:469:MET:HB2	1:7:472:PHE:CE1	2.45	0.52
1:9:33:ALA:HB1	1:9:69:MET:HG2	1.90	0.52
1:9:157:PRO:HG3	1:9:388:TYR:HB2	1.91	0.52
10:N:39:PHE:CZ	11:L:331:LEU:HD22	2.45	0.52
10:N:123:GLU:O	10:N:127:VAL:HG23	2.10	0.52
13:A:854:ILE:HD12	13:A:885:MET:HB2	1.91	0.52
14:B:469:SER:HB2	14:B:488:ALA:HB3	1.91	0.52
8:p:361:GLU:HB3	8:p:364:TRP:CD1	2.44	0.52
1:15:516:PHE:HE1	1:15:603:PRO:HD3	1.74	0.52
1:18:124:ARG:HH22	1:18:146:GLY:C	2.17	0.52
1:1:677:TRP:O	1:1:680:MET:HG2	2.10	0.52
2:C:129:PHE:HE1	3:D:101:MET:HE3	1.75	0.52
4:E:151:LEU:HD12	4:E:276:SER:HB3	1.91	0.52
4:E:516:PHE:HD1	4:E:519:ARG:HD2	1.75	0.52
6:K:154:ARG:NH2	6:K:157:ASN:HB2	2.24	0.52
7:o:57:PRO:HD3	7:o:65:PRO:HA	1.91	0.52
1:2:21:VAL:HG22	1:2:79:MET:HE3	1.92	0.52
1:5:463:TRP:CD1	1:5:463:TRP:H	2.27	0.52
1:6:52:ILE:HA	1:6:75:ALA:HA	1.92	0.52
1:7:48:ILE:HG12	1:7:79:MET:SD	2.50	0.52
1:7:453:VAL:HB	1:7:680:MET:HE1	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:875:LEU:HD22	10:N:899:LEU:HD13	1.92	0.52
12:M:290:THR:HB	12:M:329:GLN:HE21	1.75	0.52
13:A:404:VAL:O	13:A:408:ILE:HG23	2.09	0.52
13:A:427:LEU:HA	13:A:430:GLN:HE21	1.75	0.52
10:n:341:MET:HA	10:n:341:MET:HE3	1.92	0.52
10:n:347:GLN:O	10:n:350:LEU:HB2	2.10	0.52
1:19:216:ARG:HH22	1:19:237:PHE:HA	1.75	0.52
1:16:466:THR:HG22	1:16:659:ILE:HB	1.92	0.52
1:18:279:ILE:HD12	1:18:280:PRO:HD2	1.92	0.52
4:E:862:LEU:HG	4:E:864:VAL:HG13	1.90	0.52
4:I:151:LEU:HD21	4:I:297:ALA:HB2	1.90	0.52
4:I:465:LYS:HE3	4:I:520:LEU:H	1.74	0.52
4:I:748:VAL:HG13	4:I:776:TYR:CD2	2.43	0.52
8:Q:251:LEU:H	8:Q:267:ARG:HB2	1.75	0.52
1:Z:313:LEU:HB2	13:f:819:LEU:HD21	1.91	0.52
4:e:501:PHE:HB3	4:e:557:MET:HB2	1.91	0.52
4:i:127:GLN:HA	4:i:130:TYR:HD2	1.75	0.52
1:7:46:PRO:HG3	1:7:61:GLU:HB2	1.92	0.52
1:12:118:LEU:HD11	1:12:265:LEU:HB3	1.92	0.52
1:12:200:HIS:HB2	1:12:231:VAL:HG22	1.91	0.52
10:N:31:ARG:HD2	10:N:105:ALA:HA	1.91	0.52
8:P:513:LEU:HB3	8:P:582:TYR:CZ	2.44	0.52
13:A:320:LEU:HD11	13:A:369:ILE:HG13	1.91	0.52
13:F:947:ARG:HA	13:F:975:HIS:O	2.09	0.52
8:p:513:LEU:HB3	8:p:582:TYR:CZ	2.45	0.52
12:m:309:ARG:HE	12:m:426:GLN:HB2	1.75	0.52
13:f:250:ARG:O	13:f:253:VAL:HG22	2.09	0.52
1:15:344:TRP:O	1:15:348:GLU:HB2	2.09	0.52
1:16:130:MET:HB3	1:16:131:PRO:CD	2.39	0.52
1:18:422:LEU:HD23	1:18:673:PHE:HD2	1.74	0.52
1:1:319:SER:HB3	1:1:649:ILE:HD12	1.92	0.52
4:I:340:LEU:HD23	4:I:450:HIS:HD2	1.74	0.52
3:d:64:HIS:HD2	3:d:68:MET:HE2	1.74	0.52
4:e:516:PHE:HD1	4:e:519:ARG:HD2	1.75	0.52
4:i:865:SER:HB3	4:i:894:GLU:HB3	1.91	0.52
5:j:151:ILE:HD11	5:j:165:THR:HB	1.91	0.52
6:k:7:GLN:HE21	6:k:45:VAL:HB	1.75	0.52
1:3:631:LEU:C	1:3:633:GLU:N	2.67	0.52
1:4:478:THR:HG21	1:4:489:ARG:HG2	1.91	0.52
1:8:173:ARG:HA	1:8:176:GLN:HG3	1.92	0.52
11:L:99:ASN:HD22	11:L:141:GLY:HA2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M:202:ILE:HA	12:M:299:MET:HE1	1.91	0.52
12:M:340:TYR:HH	12:M:344:TRP:CD1	2.27	0.52
14:G:514:LEU:HB2	14:G:530:MET:HE1	1.92	0.52
8:p:320:ARG:NE	8:p:344:MET:HE3	2.24	0.52
8:p:722:ARG:HH11	8:p:734:LYS:HD2	1.75	0.52
11:l:418:LEU:O	11:l:421:GLU:HG3	2.09	0.52
14:b:306:ARG:HB3	14:b:321:LEU:HB2	1.91	0.52
1:11:97:CYS:HA	1:11:104:THR:HB	1.92	0.52
1:13:11:LEU:H	1:13:32:CYS:HB2	1.75	0.52
1:13:634:LYS:HE3	1:13:638:LEU:HD11	1.92	0.52
1:18:20:MET:HE1	1:18:116:ILE:HB	1.91	0.52
4:I:874:VAL:HG21	4:I:898:ILE:HG23	1.91	0.52
4:I:891:LEU:HB3	4:I:919:LEU:HD12	1.92	0.52
5:J:127:LYS:HE3	13:F:851:THR:HG23	1.91	0.52
4:e:157:VAL:HG23	4:e:338:VAL:HA	1.92	0.52
4:e:332:LEU:HA	4:e:335:ILE:HB	1.92	0.52
4:i:694:LEU:HD13	4:i:699:LEU:HD11	1.90	0.52
5:j:22:LEU:HG	6:k:155:LYS:HD3	1.91	0.52
7:o:86:LEU:O	7:o:90:ARG:HD3	2.10	0.52
1:3:303:LEU:H	1:3:670:ARG:HA	1.75	0.52
1:5:213:TRP:HE3	1:5:224:VAL:HG11	1.74	0.52
1:6:546:GLN:HG2	1:6:581:LEU:HB2	1.91	0.52
1:7:3:PHE:HB2	1:7:281:LEU:HD22	1.90	0.52
1:8:273:ASP:HB3	1:8:276:ILE:HG22	1.90	0.52
10:N:556:ALA:O	10:N:560:VAL:HG23	2.09	0.52
13:A:400:ARG:CZ	13:A:432:GLN:HA	2.39	0.52
14:G:504:LEU:HB3	14:G:506:VAL:HG13	1.92	0.52
13:a:983:VAL:HG12	13:a:1010:CYS:HB3	1.91	0.52
1:11:36:LYS:HE2	1:11:100:GLN:H	1.75	0.52
1:14:264:SER:HB3	1:14:283:LYS:HE3	1.90	0.52
1:14:307:LEU:HD21	1:14:317:VAL:HG22	1.91	0.52
1:17:599:ARG:HG2	1:17:600:PRO:HD2	1.92	0.52
4:E:371:THR:HG21	4:E:503:LEU:HD21	1.91	0.51
5:J:219:ARG:HB2	5:J:226:ILE:HD11	1.91	0.51
5:J:243:PRO:HD3	5:J:291:TRP:HB3	1.90	0.51
8:Q:222:ASN:HA	8:Q:234:TRP:HB3	1.91	0.51
2:c:129:PHE:CE2	3:d:69:LEU:HD21	2.45	0.51
4:i:567:MET:SD	4:i:593:CYS:HB2	2.49	0.51
5:j:11:MET:HG3	5:j:40:PHE:CZ	2.44	0.51
5:j:20:TYR:H	5:j:24:GLN:H	1.58	0.51
5:j:292:THR:HG21	5:j:295:ARG:HH21	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:20:MET:HE1	1:5:282:TYR:CD2	2.45	0.51
1:5:260:LEU:HB3	1:5:287:MET:HE1	1.92	0.51
1:5:261:ILE:HG13	1:5:288:PHE:HB2	1.90	0.51
1:5:307:LEU:HD21	1:5:317:VAL:HG13	1.92	0.51
1:7:178:LEU:HD13	1:7:248:GLU:HB3	1.93	0.51
1:9:134:LYS:O	1:9:138:LYS:HG2	2.10	0.51
10:N:626:LEU:HD23	10:N:632:VAL:HG21	1.92	0.51
14:B:303:SER:O	14:B:304:PHE:C	2.53	0.51
8:p:340:ASP:HB2	8:p:362:PRO:HA	1.92	0.51
11:l:156:ARG:HB2	11:l:195:ASN:ND2	2.26	0.51
13:f:547:SER:OG	13:f:551:LEU:HD12	2.10	0.51
1:11:574:LEU:HD23	1:11:574:LEU:H	1.75	0.51
1:14:20:MET:HE1	1:14:116:ILE:H	1.76	0.51
1:14:61:GLU:HG2	1:14:62:ASP:H	1.75	0.51
4:i:263:LEU:HB2	4:i:289:ILE:HD13	1.91	0.51
1:2:401:LEU:HB3	1:2:406:ASN:ND2	2.25	0.51
1:3:132:SER:O	1:3:133:ASP:HB2	2.08	0.51
1:6:296:MET:HG2	1:6:670:ARG:HB2	1.92	0.51
1:6:424:ARG:HE	1:6:455:ALA:HB3	1.74	0.51
1:7:577:GLN:HE22	1:7:604:ASP:HA	1.75	0.51
1:8:632:GLU:HB2	1:8:648:PHE:CE2	2.45	0.51
10:N:178:LEU:HD11	10:N:197:ARG:HD2	1.92	0.51
10:N:825:LEU:HD11	10:N:835:LEU:HD13	1.92	0.51
8:P:438:ARG:NH2	8:P:466:VAL:HG11	2.26	0.51
14:B:474:LEU:HD13	14:B:485:LEU:HG	1.91	0.51
13:F:508:VAL:HA	13:F:545:VAL:HG12	1.93	0.51
11:l:4:ILE:HD11	11:l:131:GLN:HB2	1.91	0.51
12:m:361:LEU:HG	12:m:362:LYS:HG2	1.91	0.51
13:a:320:LEU:HD11	13:a:369:ILE:HG13	1.91	0.51
13:a:854:ILE:HD12	13:a:885:MET:HB2	1.91	0.51
13:f:706:LEU:HD21	13:f:760:ALA:HB1	1.91	0.51
13:f:1123:LYS:HE2	13:f:1146:ILE:HD13	1.92	0.51
1:19:651:ASP:HB3	1:19:654:CYS:HB3	1.92	0.51
1:16:373:LEU:HB3	1:16:376:PHE:CZ	2.45	0.51
1:16:523:GLN:NE2	1:16:652:PHE:HB3	2.25	0.51
1:13:175:ILE:HG21	1:13:221:TYR:CE2	2.45	0.51
1:17:515:LEU:HG	1:17:622:GLY:HA2	1.92	0.51
1:17:550:VAL:HG11	1:17:579:PHE:CD1	2.45	0.51
4:E:130:TYR:OH	4:E:174:LEU:HD13	2.10	0.51
4:I:127:GLN:HA	4:I:130:TYR:HD2	1.75	0.51
5:J:340:GLN:O	5:J:341:ASP:C	2.54	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:504:GLN:HA	1:Z:507:LYS:HD2	1.92	0.51
5:j:46:CYS:HB2	5:j:66:TRP:HE1	1.74	0.51
6:k:23:GLN:HE21	6:k:62:CYS:HB3	1.75	0.51
1:2:5:ASN:HA	1:2:25:ILE:HG12	1.91	0.51
1:2:463:TRP:CD1	1:2:463:TRP:H	2.27	0.51
1:6:1:MET:HE3	1:6:18:LEU:HG	1.92	0.51
1:6:373:LEU:HB3	1:6:376:PHE:CZ	2.46	0.51
1:7:515:LEU:HG	1:7:622:GLY:HA2	1.92	0.51
1:12:485:GLN:HG2	1:12:570:LYS:HE3	1.93	0.51
11:L:86:ARG:HG2	11:L:88:ASP:H	1.74	0.51
13:A:400:ARG:NH2	13:A:432:GLN:HA	2.25	0.51
14:B:472:MET:HE1	14:B:512:THR:HB	1.93	0.51
13:a:400:ARG:NH2	13:a:432:GLN:HA	2.25	0.51
13:a:793:TRP:HB3	1:11:311:LEU:HD23	1.93	0.51
13:f:716:PRO:HG2	13:f:718:VAL:O	2.11	0.51
13:f:735:ASN:O	13:f:739:VAL:HG23	2.11	0.51
13:f:746:LEU:HD22	13:f:775:ILE:HG22	1.92	0.51
14:g:370:VAL:HB	14:g:382:CYS:HB2	1.92	0.51
1:11:401:LEU:HD11	1:11:467:GLY:HA3	1.93	0.51
1:16:9:LEU:HG	1:16:27:LEU:HD21	1.91	0.51
1:16:124:ARG:HE	1:16:150:ILE:HD11	1.74	0.51
1:18:49:LEU:O	1:18:77:VAL:HA	2.09	0.51
4:I:720:LYS:HA	4:I:748:VAL:HB	1.93	0.51
5:J:85:PRO:HG3	5:J:420:TYR:HB2	1.92	0.51
1:Z:377:PRO:O	1:Z:381:THR:HG23	2.11	0.51
3:d:45:TYR:HB3	3:d:83:ARG:HG3	1.92	0.51
4:e:606:VAL:HG12	4:e:618:LEU:HD21	1.93	0.51
5:j:119:SER:HB3	5:j:135:ILE:HD12	1.92	0.51
5:j:195:LEU:HD23	5:j:208:ALA:HA	1.92	0.51
1:3:276:ILE:HG23	1:4:549:TYR:HB2	1.92	0.51
1:4:22:GLY:O	1:4:23:MET:HE2	2.10	0.51
1:4:307:LEU:HD21	1:4:317:VAL:HG22	1.91	0.51
1:5:20:MET:H	1:5:23:MET:HE1	1.74	0.51
1:8:514:THR:HG22	1:8:533:THR:HG22	1.92	0.51
13:A:255:LYS:HD2	13:A:371:THR:HG23	1.92	0.51
14:G:370:VAL:HB	14:G:382:CYS:HB2	1.92	0.51
13:a:298:ILE:HD13	13:a:311:LYS:NZ	2.26	0.51
13:a:928:THR:HG23	13:a:959:ALA:HB2	1.93	0.51
1:11:676:LYS:HG2	1:11:678:TRP:CZ2	2.46	0.51
1:16:424:ARG:HE	1:16:455:ALA:HB3	1.75	0.51
1:1:151:LEU:HD11	1:1:248:GLU:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:123:VAL:HA	2:C:126:VAL:HB	1.91	0.51
4:E:188:CYS:HB3	4:E:234:MET:HG2	1.91	0.51
4:E:847:GLN:HA	4:E:876:LEU:HD23	1.93	0.51
4:I:857:GLN:HE22	4:I:885:ASN:HB3	1.75	0.51
4:e:657:LEU:HD23	4:e:662:PHE:CE2	2.44	0.51
1:2:30:SER:HA	1:2:33:ALA:HB3	1.91	0.51
1:3:334:VAL:HG11	1:3:345:LEU:HD13	1.92	0.51
1:3:431:PHE:HB3	1:3:460:PHE:CD1	2.46	0.51
1:4:196:GLN:HG3	1:4:233:LEU:HD13	1.93	0.51
1:4:588:PRO:HG2	1:4:591:GLN:HB2	1.92	0.51
1:6:516:PHE:HB3	1:6:519:ILE:HB	1.91	0.51
1:7:115:GLU:HB2	1:7:186:GLU:HB2	1.92	0.51
1:8:21:VAL:HA	1:8:79:MET:HB3	1.91	0.51
1:9:279:ILE:HD12	1:9:280:PRO:HD2	1.92	0.51
1:12:196:GLN:HB3	1:12:233:LEU:HD11	1.92	0.51
8:P:527:GLU:HG3	8:P:567:LYS:HB3	1.92	0.51
11:L:170:MET:HB2	11:L:203:ASP:HA	1.92	0.51
11:L:391:ARG:HH12	12:M:347:ASN:HB2	1.75	0.51
10:n:123:GLU:O	10:n:127:VAL:HG23	2.11	0.51
10:n:875:LEU:HD22	10:n:899:LEU:HD13	1.93	0.51
10:n:949:LEU:HB2	10:n:977:ILE:HG12	1.91	0.51
14:b:469:SER:HB2	14:b:488:ALA:HB3	1.93	0.51
13:f:288:TRP:HA	13:f:350:ILE:HD11	1.92	0.51
1:19:180:GLN:HG3	1:19:246:TYR:CE1	2.44	0.51
4:E:647:GLU:HG2	4:E:648:PRO:HD3	1.92	0.51
4:E:764:CYS:HA	4:E:767:LEU:HB3	1.93	0.51
5:J:84:ILE:HG13	5:J:85:PRO:HD2	1.92	0.51
5:J:195:LEU:HD23	5:J:208:ALA:HA	1.91	0.51
1:Z:44:GLY:H	1:Z:61:GLU:HG3	1.74	0.51
3:d:15:HIS:HE2	3:d:18:GLY:HA2	1.76	0.51
4:e:130:TYR:OH	4:e:174:LEU:HD13	2.11	0.51
4:e:463:MET:HE2	4:e:520:LEU:HD13	1.92	0.51
4:i:720:LYS:HA	4:i:748:VAL:HB	1.93	0.51
1:6:489:ARG:HD2	1:6:573:ILE:HG12	1.91	0.51
1:7:550:VAL:HG11	1:7:579:PHE:CD1	2.46	0.51
1:8:124:ARG:HH21	1:8:148:GLY:N	2.08	0.51
1:8:224:VAL:HG23	1:8:225:VAL:HG23	1.92	0.51
1:12:2:SER:HA	1:12:281:LEU:HD21	1.91	0.51
10:N:587:LEU:HD22	10:N:591:LEU:HD13	1.93	0.51
13:F:716:PRO:HG2	13:F:718:VAL:O	2.11	0.51
13:F:735:ASN:O	13:F:739:VAL:HG23	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:846:TYR:HA	13:F:849:ILE:HD12	1.93	0.51
11:l:280:GLN:HG2	11:l:281:TYR:N	2.25	0.51
14:g:504:LEU:HB3	14:g:506:VAL:HG13	1.92	0.51
1:11:122:ILE:HD11	1:11:132:SER:HB2	1.92	0.51
1:11:215:GLN:HB2	1:11:218:SER:HB2	1.93	0.51
1:1:311:LEU:HD23	13:A:793:TRP:HB3	1.93	0.51
4:I:108:ASP:HA	4:I:440:ARG:HH21	1.74	0.51
4:I:139:SER:HA	4:I:147:HIS:HD2	1.75	0.51
4:I:299:ALA:HA	4:I:339:PRO:HD3	1.92	0.51
4:e:259:LEU:O	4:e:263:LEU:HG	2.11	0.51
4:e:764:CYS:HA	4:e:767:LEU:HB3	1.92	0.51
4:i:857:GLN:HE22	4:i:885:ASN:HB3	1.76	0.51
6:k:122:THR:HG22	6:k:126:MET:HE1	1.93	0.51
1:3:189:THR:HA	1:3:192:LEU:HB3	1.92	0.51
1:3:302:PRO:HG3	1:3:611:LEU:HA	1.91	0.51
1:5:41:THR:HA	1:5:65:VAL:O	2.11	0.51
1:5:523:GLN:HG2	1:5:652:PHE:HD2	1.76	0.51
1:6:268:VAL:HA	1:6:280:PRO:HA	1.91	0.51
1:7:442:LYS:HE2	1:8:204:GLU:HG2	1.92	0.51
10:N:347:GLN:HA	10:N:350:LEU:HD12	1.93	0.51
13:A:333:LEU:HD13	13:A:335:HIS:HB3	1.92	0.51
10:n:97:LEU:HB3	10:n:118:TYR:HE1	1.76	0.51
10:n:825:LEU:HD11	10:n:835:LEU:HD13	1.92	0.51
11:l:313:VAL:HG13	11:l:367:PHE:CE1	2.46	0.51
12:m:423:GLN:HA	12:m:426:GLN:HG2	1.93	0.51
14:b:438:LYS:HG3	14:b:439:ASP:H	1.76	0.51
1:13:310:GLU:H	1:13:664:ALA:HB2	1.76	0.51
1:13:510:TYR:HB2	1:13:625:ILE:HD12	1.93	0.51
1:17:178:LEU:HD13	1:17:248:GLU:HB3	1.93	0.51
1:17:469:MET:HB2	1:17:472:PHE:CE1	2.46	0.51
4:E:259:LEU:O	4:E:263:LEU:HG	2.11	0.51
4:E:501:PHE:HB3	4:E:557:MET:HB2	1.91	0.51
4:E:708:CYS:HA	4:E:711:LEU:HD12	1.91	0.51
5:J:119:SER:HB3	5:J:135:ILE:HD12	1.93	0.51
5:J:330:LYS:HG3	12:M:212:PHE:HZ	1.75	0.51
4:e:478:ILE:HG12	4:e:528:LEU:HD21	1.93	0.51
4:i:831:LEU:HD21	4:i:834:LEU:HB2	1.93	0.51
1:z:97:CYS:HB2	1:z:100:GLN:HB2	1.93	0.51
1:4:172:PRO:HA	1:4:175:ILE:HD12	1.93	0.51
1:6:26:THR:HA	1:6:76:LEU:HG	1.92	0.51
1:6:466:THR:HG22	1:6:659:ILE:HB	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:82:PRO:HG3	1:9:186:GLU:HB3	1.92	0.51
1:9:599:ARG:HH21	1:9:656:LEU:HB3	1.76	0.51
1:12:460:PHE:HB3	1:12:557:ASN:HD21	1.75	0.51
10:N:84:VAL:HG22	10:N:208:VAL:HB	1.92	0.51
8:P:44:ARG:HB2	8:P:72:LEU:HB3	1.91	0.51
11:L:156:ARG:HB2	11:L:195:ASN:ND2	2.25	0.51
11:L:217:LEU:HB3	11:L:220:PRO:HB3	1.92	0.51
10:n:477:LEU:HD23	10:n:480:LEU:HD12	1.92	0.51
13:f:508:VAL:HA	13:f:545:VAL:HG12	1.93	0.51
1:19:134:LYS:O	1:19:138:LYS:HG2	2.10	0.51
1:15:102:VAL:HG22	1:14:676:LYS:HE2	1.93	0.51
1:15:260:LEU:HB3	1:15:287:MET:HE1	1.91	0.51
1:14:45:SER:H	1:14:48:ILE:HD12	1.76	0.51
1:17:399:ALA:HB1	1:17:438:ARG:HH11	1.76	0.51
1:18:585:THR:HG22	1:18:586:ASN:N	2.25	0.51
1:1:49:LEU:HD12	1:1:78:ARG:HB3	1.92	0.51
2:H:32:ARG:HD3	13:F:248:HIS:CE1	2.46	0.51
2:c:111:TRP:HZ3	2:c:116:GLU:HB3	1.76	0.51
4:e:154:MET:HA	4:e:278:THR:HG22	1.93	0.51
4:i:503:LEU:HD22	4:i:512:LEU:HD11	1.93	0.51
1:4:43:ARG:O	1:4:91:VAL:HA	2.10	0.51
1:4:264:SER:HB3	1:4:283:LYS:HE3	1.92	0.51
1:5:345:LEU:HB3	1:5:665:SER:HB2	1.93	0.51
1:6:94:SER:HB3	1:6:96:PHE:CE1	2.46	0.51
1:8:50:ILE:HG23	1:8:77:VAL:HG22	1.93	0.51
10:N:186:SER:HB2	10:N:191:LEU:HD21	1.93	0.51
12:M:309:ARG:NE	12:M:426:GLN:HB2	2.26	0.51
13:F:826:HIS:CD2	13:F:828:LYS:H	2.29	0.51
8:p:438:ARG:NH1	8:p:466:VAL:HG21	2.26	0.51
11:l:217:LEU:HB3	11:l:220:PRO:HB3	1.92	0.51
14:g:514:LEU:HB2	14:g:530:MET:HE1	1.92	0.51
1:15:345:LEU:HB3	1:15:665:SER:HB2	1.93	0.51
1:14:463:TRP:CD1	1:14:463:TRP:H	2.29	0.51
3:D:15:HIS:HE2	3:D:18:GLY:HA2	1.76	0.51
4:E:587:ALA:HA	4:E:590:LEU:HB2	1.91	0.51
4:I:236:TRP:CE3	4:I:256:SER:HA	2.46	0.51
4:I:259:LEU:O	4:I:263:LEU:HG	2.10	0.51
7:O:86:LEU:O	7:O:90:ARG:HD3	2.10	0.51
4:e:228:ILE:HB	4:e:275:LEU:HD23	1.92	0.51
4:e:461:PHE:CZ	4:e:467:HIS:HB2	2.46	0.51
8:q:217:GLN:HG2	8:q:219:VAL:HG13	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:116:ILE:HG12	1:z:185:VAL:HG13	1.91	0.51
1:2:485:GLN:HG2	1:2:570:LYS:HE3	1.93	0.51
1:7:29:ILE:HD11	1:7:75:ALA:HB2	1.93	0.51
1:9:561:LEU:HD13	1:9:565:LEU:HD13	1.92	0.51
1:12:204:GLU:HA	1:12:207:LYS:HD2	1.93	0.51
1:12:426:LEU:HD13	1:12:459:LEU:HD11	1.93	0.51
10:N:494:ASP:O	10:N:498:ILE:HG13	2.11	0.51
11:L:313:VAL:HG13	11:L:367:PHE:CE1	2.46	0.51
13:F:470:PHE:HE2	13:F:607:ILE:HG12	1.76	0.51
13:F:874:MET:HE3	13:F:874:MET:HA	1.92	0.51
1:11:514:THR:HG22	1:11:533:THR:HG22	1.93	0.51
1:15:463:TRP:CD1	1:15:463:TRP:H	2.29	0.51
1:14:478:THR:HG21	1:14:489:ARG:HG2	1.91	0.51
5:J:292:THR:HG21	5:J:295:ARG:HH21	1.75	0.50
1:Z:255:PRO:HG3	1:Z:446:GLU:HB3	1.92	0.50
4:e:247:ASP:O	4:e:267:MET:HG3	2.11	0.50
7:o:74:TYR:HB2	7:o:141:TRP:CE3	2.46	0.50
1:3:149:ALA:HB3	1:3:288:PHE:CD1	2.45	0.50
1:5:170:GLU:HB3	1:5:174:GLU:HB2	1.93	0.50
1:8:499:PHE:HE2	1:8:544:ARG:HD3	1.77	0.50
1:9:651:ASP:HB3	1:9:654:CYS:HB3	1.93	0.50
1:12:257:PHE:CE2	1:12:259:GLY:HA2	2.46	0.50
1:12:401:LEU:HB3	1:12:406:ASN:ND2	2.26	0.50
8:P:22:LEU:HD21	8:P:321:LYS:HG2	1.92	0.50
12:M:6:HIS:O	12:M:63:ALA:HA	2.11	0.50
13:A:928:THR:HG23	13:A:959:ALA:HB2	1.93	0.50
13:F:931:VAL:HG11	13:F:959:ALA:HB1	1.93	0.50
10:n:494:ASP:O	10:n:498:ILE:HG13	2.11	0.50
8:p:438:ARG:NH2	8:p:466:VAL:HG11	2.26	0.50
1:11:151:LEU:HD11	1:11:248:GLU:HA	1.92	0.50
1:11:177:ASN:HB3	1:11:359:LYS:NZ	2.26	0.50
1:15:45:SER:HA	1:15:61:GLU:HG3	1.92	0.50
1:15:555:SER:HA	1:15:558:ARG:HG2	1.91	0.50
1:15:581:LEU:HA	1:15:598:ALA:HA	1.93	0.50
1:13:532:LYS:HD3	1:13:536:GLN:HE22	1.75	0.50
3:D:121:ALA:HB2	4:E:387:SER:HA	1.93	0.50
4:I:501:PHE:CD2	4:I:553:CYS:HB3	2.46	0.50
4:I:501:PHE:CG	4:I:553:CYS:HB3	2.47	0.50
4:I:760:ILE:HG23	4:I:791:TYR:HD2	1.77	0.50
5:J:1:MET:HB3	5:J:5:LEU:HG	1.94	0.50
7:O:49:VAL:O	7:O:49:VAL:HG12	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:316:PHE:CD2	1:Z:664:ALA:HB3	2.43	0.50
1:2:160:VAL:HG11	1:2:388:TYR:HD2	1.76	0.50
1:6:150:ILE:HG23	1:6:291:ALA:HB2	1.93	0.50
1:9:21:VAL:HG22	1:9:79:MET:HG3	1.94	0.50
1:9:213:TRP:CD1	1:9:245:PHE:HA	2.45	0.50
8:P:340:ASP:O	8:P:341:GLU:C	2.52	0.50
11:L:280:GLN:HG2	11:L:281:TYR:N	2.25	0.50
13:A:298:ILE:HD13	13:A:311:LYS:NZ	2.26	0.50
10:n:626:LEU:HD23	10:n:632:VAL:HG21	1.92	0.50
10:n:933:LYS:HG2	10:n:937:LYS:HE3	1.93	0.50
13:f:600:PHE:CD1	13:f:652:CYS:HB3	2.47	0.50
1:15:37:CYS:SG	1:15:95:TYR:HB3	2.51	0.50
1:15:307:LEU:HD21	1:15:317:VAL:HG13	1.93	0.50
1:16:18:LEU:HD23	1:16:112:THR:HB	1.92	0.50
1:16:49:LEU:HD23	1:16:78:ARG:HE	1.76	0.50
1:14:200:HIS:CE1	1:13:433:PRO:HG2	2.46	0.50
1:13:9:LEU:HG	1:13:27:LEU:HG	1.93	0.50
1:17:42:ILE:HG22	1:17:93:VAL:HG22	1.93	0.50
1:17:469:MET:HE2	1:17:472:PHE:CE1	2.46	0.50
1:1:215:GLN:HB2	1:1:218:SER:HB2	1.94	0.50
4:e:847:GLN:HA	4:e:876:LEU:HD23	1.92	0.50
4:i:760:ILE:HG23	4:i:791:TYR:HD2	1.76	0.50
1:z:49:LEU:HG	1:z:57:ILE:O	2.11	0.50
1:z:408:MET:CE	1:z:469:MET:HB2	2.41	0.50
1:4:37:CYS:HA	1:4:97:CYS:HA	1.93	0.50
1:5:516:PHE:HE1	1:5:603:PRO:HD3	1.77	0.50
1:6:523:GLN:NE2	1:6:652:PHE:HB3	2.26	0.50
10:N:39:PHE:HZ	11:L:331:LEU:HD22	1.77	0.50
8:P:438:ARG:NH1	8:P:466:VAL:HG21	2.26	0.50
13:F:288:TRP:HA	13:F:350:ILE:HD11	1.92	0.50
13:F:396:SER:C	13:F:400:ARG:HE	2.19	0.50
14:G:350:LEU:HD22	14:G:395:ALA:HA	1.93	0.50
13:a:430:GLN:OE1	13:a:461:LEU:HD22	2.12	0.50
13:a:1021:ALA:HB1	13:a:1051:GLY:HA3	1.93	0.50
1:15:20:MET:HE1	1:15:282:TYR:CD2	2.46	0.50
1:16:93:VAL:HB	1:16:107:ALA:HB3	1.93	0.50
1:18:345:LEU:O	1:18:345:LEU:HD23	2.11	0.50
1:18:401:LEU:HB3	1:18:406:ASN:ND2	2.26	0.50
1:1:177:ASN:HB3	1:1:359:LYS:NZ	2.26	0.50
1:1:514:THR:HG22	1:1:533:THR:HG22	1.94	0.50
7:O:1:MET:HE1	7:O:61:PRO:HD2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:51:ARG:H	4:e:51:ARG:HD3	1.75	0.50
7:o:118:PRO:HB3	7:o:124:ALA:HB2	1.92	0.50
1:z:312:GLN:HB2	13:F:790:LYS:HD2	1.92	0.50
1:6:48:ILE:HD13	1:6:79:MET:HG2	1.93	0.50
1:7:399:ALA:HB1	1:7:438:ARG:HH11	1.75	0.50
10:N:477:LEU:HD23	10:N:480:LEU:HD12	1.93	0.50
13:A:983:VAL:HG12	13:A:1010:CYS:HB3	1.91	0.50
13:A:1021:ALA:HB1	13:A:1051:GLY:HA3	1.93	0.50
10:n:587:LEU:HD22	10:n:591:LEU:HD13	1.93	0.50
11:l:379:LYS:HE2	11:l:419:VAL:HG21	1.92	0.50
12:m:135:LEU:HD22	12:m:152:ILE:HG13	1.94	0.50
13:a:804:TYR:CE2	13:a:806:ASN:HB2	2.47	0.50
13:a:1078:SER:HB2	13:a:1108:ALA:HB2	1.94	0.50
14:g:350:LEU:HD22	14:g:395:ALA:HA	1.93	0.50
1:11:43:ARG:HD3	1:13:123:TYR:CE2	2.46	0.50
1:15:473:MET:HB3	1:15:492:LEU:HD23	1.93	0.50
1:18:24:GLU:HB2	1:18:78:ARG:NH2	2.27	0.50
1:18:515:LEU:HG	1:18:623:PRO:HD3	1.91	0.50
1:1:625:ILE:HG23	3:D:64:HIS:CE1	2.46	0.50
4:E:486:LEU:HB3	4:E:545:ILE:HG23	1.94	0.50
2:H:72:CYS:O	2:H:73:GLN:HB2	2.11	0.50
5:J:354:LYS:HZ1	5:J:409:TRP:HB3	1.75	0.50
1:Z:210:ARG:HG2	1:Z:227:PRO:HD3	1.93	0.50
1:Z:308:CYS:HB2	1:Z:334:VAL:HB	1.93	0.50
4:e:647:GLU:HG2	4:e:648:PRO:HD3	1.92	0.50
4:i:501:PHE:CG	4:i:553:CYS:HB3	2.47	0.50
4:i:501:PHE:CD2	4:i:553:CYS:HB3	2.47	0.50
7:o:49:VAL:O	7:o:49:VAL:HG12	2.11	0.50
1:z:449:TYR:CD1	1:z:456:PRO:HG2	2.46	0.50
1:6:20:MET:HB2	1:6:23:MET:HB3	1.93	0.50
1:8:294:ILE:HD13	1:8:422:LEU:HD13	1.93	0.50
1:9:506:GLN:OE1	1:9:538:LEU:HD12	2.12	0.50
1:12:460:PHE:HB3	1:12:557:ASN:ND2	2.27	0.50
10:N:423:ILE:HD12	10:N:480:LEU:HD13	1.93	0.50
11:L:51:TYR:HB3	11:L:59:TYR:HB3	1.94	0.50
13:A:430:GLN:OE1	13:A:461:LEU:HD22	2.12	0.50
13:A:778:LEU:HG	13:A:780:PHE:HE1	1.77	0.50
11:l:2:ARG:HD2	11:l:131:GLN:HG3	1.93	0.50
11:l:138:SER:HA	11:l:169:VAL:HG22	1.94	0.50
13:a:255:LYS:HD2	13:a:371:THR:HG23	1.92	0.50
13:f:834:LEU:HD23	13:f:834:LEU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:19:378:MET:O	1:19:382:LEU:HG	2.12	0.50
1:15:114:ILE:HG12	1:15:191:ILE:HG21	1.94	0.50
1:16:181:MET:HB3	1:16:245:PHE:HB2	1.92	0.50
1:14:345:LEU:HB3	1:14:665:SER:OG	2.12	0.50
1:13:605:MET:HA	1:13:618:PRO:HD2	1.93	0.50
1:18:485:GLN:CD	1:18:489:ARG:HH22	2.19	0.50
2:C:111:TRP:HZ3	2:C:116:GLU:HB3	1.75	0.50
4:E:300:PHE:HA	4:E:304:SER:HB2	1.93	0.50
4:I:323:PHE:HE1	4:I:327:ARG:HE	1.59	0.50
4:I:344:MET:HE1	4:I:373:HIS:CD2	2.47	0.50
4:I:573:ILE:HB	4:I:596:LEU:HD21	1.93	0.50
5:J:249:LEU:HD22	5:J:299:ILE:HD11	1.93	0.50
7:O:57:PRO:HD3	7:O:65:PRO:HA	1.92	0.50
4:e:149:VAL:HB	4:e:274:LEU:HA	1.91	0.50
2:h:65:ILE:HD11	2:h:76:LEU:HD11	1.94	0.50
5:j:249:LEU:HD22	5:j:299:ILE:HD11	1.94	0.50
1:2:426:LEU:HD13	1:2:459:LEU:HD11	1.93	0.50
1:3:433:PRO:HG2	1:4:200:HIS:CE1	2.46	0.50
1:4:617:ILE:O	1:4:648:PHE:HA	2.11	0.50
1:8:140:TRP:HZ2	1:8:150:ILE:HD11	1.77	0.50
1:9:408:MET:SD	1:9:469:MET:HB2	2.52	0.50
10:N:680:SER:HA	10:N:683:LEU:HB2	1.94	0.50
12:M:286:VAL:HG11	12:M:326:VAL:HG22	1.94	0.50
13:F:338:MET:HB3	13:F:355:TYR:CE2	2.47	0.50
13:F:666:LEU:HD13	13:F:688:CYS:SG	2.52	0.50
13:F:834:LEU:HD23	13:F:834:LEU:O	2.11	0.50
10:n:680:SER:HA	10:n:683:LEU:HB2	1.94	0.50
8:p:421:ASN:HB3	8:p:463:TYR:CE2	2.47	0.50
11:l:54:ALA:HB2	11:l:60:VAL:HG22	1.94	0.50
13:a:918:HIS:HB3	13:a:1160:TRP:CZ2	2.47	0.50
1:11:24:GLU:HB3	1:11:76:LEU:HD12	1.94	0.50
1:19:151:LEU:HD11	1:19:288:PHE:CD2	2.47	0.50
1:19:427:ILE:HD11	1:19:456:PRO:HB3	1.93	0.50
1:17:211:VAL:HB	1:17:225:VAL:HB	1.92	0.50
1:17:294:ILE:HG21	1:17:422:LEU:HD12	1.92	0.50
4:I:831:LEU:HD21	4:I:834:LEU:HB2	1.93	0.50
7:O:120:VAL:HB	7:O:123:ILE:HG22	1.92	0.50
1:Z:470:ASP:HA	1:Z:473:MET:SD	2.52	0.50
4:e:486:LEU:HB3	4:e:545:ILE:HG23	1.94	0.50
1:z:546:GLN:HG2	1:z:581:LEU:HD12	1.91	0.50
1:4:1:MET:HB2	1:4:18:LEU:HD11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:463:TRP:H	1:4:463:TRP:CD1	2.29	0.50
1:5:297:PRO:HG2	1:5:300:GLN:HB2	1.93	0.50
1:6:9:LEU:HD22	1:6:107:ALA:HB1	1.94	0.50
1:6:350:ALA:O	1:6:364:ILE:HG13	2.12	0.50
1:7:42:ILE:HG22	1:7:93:VAL:HG22	1.93	0.50
1:7:636:CYS:O	1:7:640:GLU:HB2	2.12	0.50
1:8:49:LEU:HA	1:8:59:GLY:H	1.77	0.50
10:N:626:LEU:HD21	10:N:635:LEU:HD21	1.94	0.50
10:N:911:LEU:HA	10:N:946:MET:HE1	1.93	0.50
11:L:31:ASP:N	11:L:37:HIS:HB2	2.27	0.50
11:L:257:MET:HB3	11:L:266:PHE:CZ	2.47	0.50
13:A:918:HIS:HB3	13:A:1160:TRP:CZ2	2.47	0.50
13:A:1078:SER:HB2	13:A:1108:ALA:HB2	1.94	0.50
14:G:517:LYS:HD3	14:G:558:ASP:HA	1.94	0.50
14:G:525:TRP:CE2	14:G:537:HIS:HB2	2.47	0.50
13:a:470:PHE:HZ	13:a:607:ILE:HG23	1.77	0.50
13:a:892:ILE:HG23	13:a:920:CYS:HB3	1.94	0.50
13:f:279:ILE:HD13	13:f:321:PHE:CE1	2.47	0.50
13:f:396:SER:C	13:f:400:ARG:HE	2.19	0.50
14:g:575:SER:HB3	14:g:577:TYR:CE1	2.47	0.50
1:19:28:ASP:HB3	1:19:31:LYS:HE3	1.92	0.50
1:14:22:GLY:O	1:14:23:MET:HE2	2.11	0.50
1:14:172:PRO:HA	1:14:175:ILE:HD12	1.93	0.50
1:17:115:GLU:HB2	1:17:186:GLU:HB2	1.94	0.50
1:17:144:MET:HE1	1:17:679:LYS:HD3	1.92	0.50
1:17:453:VAL:HB	1:17:680:MET:HE1	1.93	0.50
1:1:574:LEU:HD23	1:1:574:LEU:H	1.76	0.50
4:I:248:ASP:HA	4:I:267:MET:SD	2.52	0.50
7:O:6:ILE:HG22	7:O:30:MET:HE2	1.94	0.50
4:e:707:LEU:HA	4:e:710:ILE:HD12	1.94	0.50
1:z:43:ARG:HE	1:z:44:GLY:H	1.58	0.50
1:4:345:LEU:HB3	1:4:665:SER:OG	2.12	0.50
1:5:46:PRO:HG3	1:5:61:GLU:HB2	1.93	0.50
1:6:131:PRO:HG2	1:6:137:LYS:HZ1	1.77	0.50
1:9:38:LYS:HB2	1:9:98:PRO:HA	1.94	0.50
1:9:216:ARG:HH22	1:9:237:PHE:HA	1.77	0.50
1:9:268:VAL:HG22	1:9:280:PRO:HA	1.94	0.50
11:L:416:ASN:HA	11:L:419:VAL:HG12	1.94	0.50
13:A:308:LEU:HA	13:A:311:LYS:HE3	1.94	0.50
13:A:470:PHE:HZ	13:A:607:ILE:HG23	1.77	0.50
13:A:995:LEU:HD22	13:A:1023:MET:HG2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:155:PRO:HG2	14:G:326:ALA:HA	1.94	0.50
10:n:169:PHE:HB2	10:n:171:PHE:CZ	2.47	0.50
8:p:44:ARG:HG2	8:p:74:ARG:HH21	1.77	0.50
11:l:272:PRO:HD3	11:l:292:GLN:HG2	1.94	0.50
12:m:6:HIS:O	12:m:63:ALA:HA	2.11	0.50
14:b:369:ILE:HG12	14:b:383:GLN:HE22	1.77	0.50
13:f:628:GLN:HE21	13:f:661:PHE:HD1	1.60	0.50
14:g:525:TRP:CE2	14:g:537:HIS:HB2	2.47	0.50
14:g:538:SER:HB2	14:g:545:LEU:HD21	1.93	0.50
1:15:523:GLN:HG2	1:15:652:PHE:HD2	1.76	0.50
1:14:10:SER:HB3	1:14:13:ASN:HB2	1.91	0.50
1:14:52:ILE:HD11	1:14:57:ILE:HG12	1.94	0.50
1:18:257:PHE:CE2	1:18:259:GLY:HA2	2.47	0.50
1:1:565:LEU:HB3	1:1:567:LEU:HD23	1.94	0.50
4:E:228:ILE:HB	4:E:275:LEU:HD23	1.92	0.50
4:E:461:PHE:CZ	4:E:467:HIS:HB2	2.46	0.50
4:E:606:VAL:HG12	4:E:618:LEU:HD21	1.93	0.50
4:I:163:LEU:HD12	4:I:229:ASP:HB2	1.93	0.50
8:Q:217:GLN:HG2	8:Q:219:VAL:HG13	1.94	0.50
8:Q:243:ARG:HG2	8:Q:248:ALA:HB3	1.94	0.50
1:Z:307:LEU:HD21	1:Z:317:VAL:HG13	1.94	0.50
8:q:286:LEU:HD11	8:q:299:ASN:HD22	1.76	0.50
1:z:30:SER:HA	1:z:33:ALA:HB3	1.94	0.50
1:2:44:GLY:H	1:2:57:ILE:HG21	1.76	0.50
1:3:283:LYS:HB2	1:4:431:PHE:CE2	2.47	0.50
1:7:181:MET:HE3	1:7:247:VAL:HG21	1.93	0.50
1:7:276:ILE:HD11	1:8:545:GLU:HB3	1.94	0.50
1:8:24:GLU:HB2	1:8:78:ARG:HE	1.77	0.50
1:9:299:THR:HB	1:9:477:PRO:HB3	1.94	0.50
1:12:208:LYS:HG3	1:12:257:PHE:CE1	2.47	0.50
10:N:195:LEU:HB2	10:N:200:MET:HE2	1.94	0.50
13:a:778:LEU:HG	13:a:780:PHE:HE1	1.77	0.50
14:g:155:PRO:HG2	14:g:326:ALA:HA	1.94	0.50
14:g:452:ARG:HG2	14:g:464:GLU:OE1	2.12	0.50
1:19:279:ILE:HD12	1:19:280:PRO:HD2	1.94	0.50
1:16:26:THR:HA	1:16:76:LEU:HG	1.92	0.50
1:16:178:LEU:HD13	1:16:248:GLU:HB3	1.94	0.50
1:16:377:PRO:HA	1:16:380:TYR:HD2	1.77	0.50
1:13:149:ALA:HB3	1:13:288:PHE:CD1	2.46	0.50
1:13:569:ASP:HA	1:13:572:ILE:HB	1.94	0.50
1:13:632:GLU:HA	1:13:635:VAL:HG12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:17:577:GLN:HE22	1:17:604:ASP:HA	1.77	0.50
1:1:499:PHE:HB3	1:1:544:ARG:HH22	1.77	0.49
4:E:332:LEU:HA	4:E:335:ILE:HB	1.93	0.49
4:E:604:GLU:HA	4:E:643:THR:HA	1.94	0.49
6:K:87:VAL:O	6:K:91:GLU:HG2	2.12	0.49
6:K:134:GLU:HA	6:K:137:LYS:HG2	1.93	0.49
1:Z:37:CYS:SG	1:Z:95:TYR:HB3	2.51	0.49
1:Z:47:ARG:HH12	1:Z:84:PRO:HD3	1.77	0.49
1:Z:86:VAL:HG22	1:Z:191:ILE:HD11	1.93	0.49
1:Z:177:ASN:HB3	1:Z:359:LYS:NZ	2.27	0.49
1:Z:463:TRP:CD1	1:Z:463:TRP:H	2.30	0.49
4:e:5:ILE:CG2	4:e:6:SER:N	2.34	0.49
4:i:777:LEU:O	4:i:805:LEU:HA	2.12	0.49
1:z:625:ILE:HG12	1:z:630:CYS:HB2	1.94	0.49
1:2:84:PRO:HD2	1:2:88:GLU:HG2	1.94	0.49
1:8:90:LYS:HA	1:8:109:LEU:O	2.12	0.49
1:9:7:LEU:HD21	1:9:17:ALA:HB2	1.94	0.49
10:N:933:LYS:HG2	10:N:937:LYS:HE3	1.93	0.49
8:P:58:LEU:HB3	8:P:63:VAL:CG2	2.42	0.49
8:P:368:SER:HB3	8:P:596:ARG:HH12	1.77	0.49
13:F:784:GLU:HG3	13:F:784:GLU:O	2.10	0.49
11:l:99:ASN:HD22	11:l:141:GLY:HA2	1.75	0.49
11:l:164:MET:HE3	11:l:195:ASN:HD21	1.77	0.49
1:19:20:MET:HB3	1:19:23:MET:HB3	1.93	0.49
1:15:9:LEU:HG	1:15:27:LEU:HD11	1.94	0.49
1:14:196:GLN:HG3	1:14:233:LEU:HD13	1.93	0.49
1:14:577:GLN:HA	1:14:602:PHE:CZ	2.47	0.49
1:13:294:ILE:HB	1:13:353:TYR:CE1	2.47	0.49
1:17:25:ILE:O	1:17:76:LEU:HA	2.11	0.49
1:1:24:GLU:CD	1:1:76:LEU:HB3	2.37	0.49
1:1:408:MET:HG3	1:1:469:MET:SD	2.52	0.49
1:1:510:TYR:HD2	3:D:64:HIS:NE2	2.10	0.49
3:d:121:ALA:HB2	4:e:387:SER:HA	1.93	0.49
4:e:118:GLN:HA	4:e:161:LEU:HD21	1.93	0.49
5:j:307:ARG:HG3	5:j:307:ARG:O	2.12	0.49
8:q:225:VAL:HG12	8:q:259:ASN:HA	1.94	0.49
1:2:203:GLU:HG2	1:2:207:LYS:HE3	1.94	0.49
1:3:319:SER:HB2	1:3:649:ILE:HG23	1.93	0.49
1:4:425:VAL:HG13	1:4:454:GLN:HB3	1.94	0.49
1:5:47:ARG:HG3	1:5:79:MET:HE1	1.94	0.49
1:7:21:VAL:HG21	1:7:115:GLU:CD	2.38	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:517:GLU:HG3	1:9:624:LYS:HB2	1.94	0.49
11:L:2:ARG:HD2	11:L:131:GLN:HG3	1.93	0.49
14:B:438:LYS:HG3	14:B:439:ASP:H	1.76	0.49
13:a:492:VAL:HG12	13:a:572:PHE:HZ	1.77	0.49
1:19:506:GLN:OE1	1:19:538:LEU:HD12	2.12	0.49
1:15:49:LEU:HD23	1:15:80:VAL:HG21	1.93	0.49
1:16:213:TRP:CE3	1:16:215:GLN:HG2	2.47	0.49
1:14:43:ARG:O	1:14:91:VAL:HA	2.11	0.49
1:14:617:ILE:O	1:14:648:PHE:HA	2.12	0.49
1:17:21:VAL:HG21	1:17:115:GLU:CD	2.37	0.49
1:18:37:CYS:HA	1:18:97:CYS:HA	1.94	0.49
1:1:141:MET:HE1	1:1:147:TRP:CE2	2.46	0.49
8:Q:235:TYR:CZ	8:Q:257:LEU:HD23	2.47	0.49
4:e:300:PHE:HA	4:e:304:SER:HB2	1.92	0.49
5:j:3:ILE:HB	6:k:105:LEU:HD11	1.95	0.49
1:z:232:TYR:HE2	1:z:234:LEU:HD23	1.78	0.49
1:z:516:PHE:H	1:z:622:GLY:HA2	1.78	0.49
1:2:257:PHE:CE2	1:2:259:GLY:HA2	2.46	0.49
1:7:547:ASN:ND2	1:7:578:LEU:HD22	2.27	0.49
1:9:252:PHE:CE1	1:9:389:LEU:HD22	2.47	0.49
1:9:310:GLU:HG2	1:9:662:VAL:HG12	1.94	0.49
15:L:501:GDP:H2'	15:L:501:GDP:N3	2.26	0.49
12:M:135:LEU:HD22	12:M:152:ILE:HG13	1.93	0.49
13:A:492:VAL:HG21	13:A:568:TRP:CE2	2.47	0.49
13:F:270:LYS:O	13:F:271:LEU:HD22	2.12	0.49
14:G:452:ARG:HG2	14:G:464:GLU:OE1	2.12	0.49
14:G:575:SER:HB3	14:G:577:TYR:CE1	2.47	0.49
11:l:51:TYR:HB3	11:l:59:TYR:HB3	1.93	0.49
15:l:501:GDP:N3	15:l:501:GDP:H2'	2.26	0.49
12:m:309:ARG:NE	12:m:426:GLN:HB2	2.28	0.49
12:m:340:TYR:HH	12:m:344:TRP:CD1	2.30	0.49
1:11:178:LEU:HD13	1:11:248:GLU:HB3	1.94	0.49
1:14:200:HIS:CE1	1:14:264:SER:HB2	2.47	0.49
1:13:97:CYS:HB2	1:13:100:GLN:HB2	1.94	0.49
1:17:636:CYS:O	1:17:640:GLU:HB2	2.12	0.49
4:E:478:ILE:HG12	4:E:528:LEU:HD21	1.93	0.49
4:I:567:MET:SD	4:I:593:CYS:HB2	2.52	0.49
6:K:23:GLN:HE21	6:K:62:CYS:HB3	1.78	0.49
6:K:36:MET:HE1	6:K:45:VAL:HG22	1.93	0.49
1:Z:341:GLN:HE21	1:Z:369:ARG:CZ	2.24	0.49
3:d:122:GLY:HA2	4:e:385:TYR:CD2	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:133:PHE:HB3	4:e:176:PHE:HZ	1.78	0.49
2:h:32:ARG:HD3	13:f:248:HIS:CE1	2.46	0.49
4:i:344:MET:HE1	4:i:373:HIS:CD2	2.47	0.49
5:j:389:TRP:HB3	5:j:396:ILE:CG2	2.43	0.49
1:2:204:GLU:HA	1:2:207:LYS:HD2	1.93	0.49
1:2:460:PHE:HB3	1:2:557:ASN:ND2	2.27	0.49
1:6:101:GLU:H	1:7:679:LYS:NZ	2.08	0.49
10:N:261:MET:HB3	10:N:519:ARG:NH1	2.28	0.49
10:N:768:LEU:HB3	10:N:800:ASN:HB2	1.94	0.49
11:L:379:LYS:HE2	11:L:419:VAL:HG21	1.93	0.49
13:A:679:LYS:HD2	13:A:729:LEU:HD13	1.95	0.49
14:B:296:LEU:HD23	14:B:312:SER:HB3	1.94	0.49
14:B:298:VAL:HG21	14:B:348:THR:HA	1.95	0.49
13:F:815:ASP:HA	13:F:818:LYS:HE2	1.93	0.49
10:n:328:ARG:HG2	10:n:397:LEU:O	2.12	0.49
10:n:353:HIS:O	10:n:354:GLU:C	2.54	0.49
10:n:569:SER:HB2	10:n:572:HIS:CE1	2.48	0.49
8:p:468:ALA:HB2	8:p:542:ASN:HD22	1.78	0.49
12:m:44:LEU:O	12:m:47:ILE:HG22	2.12	0.49
13:a:492:VAL:HG21	13:a:568:TRP:CE2	2.47	0.49
1:11:24:GLU:CD	1:11:76:LEU:HB3	2.37	0.49
1:19:463:TRP:H	1:19:463:TRP:CD1	2.30	0.49
1:15:465:MET:HE1	1:15:599:ARG:HA	1.94	0.49
1:16:420:TYR:CD1	1:16:424:ARG:HG2	2.47	0.49
1:14:174:GLU:O	1:14:178:LEU:HG	2.13	0.49
1:17:295:PHE:HZ	1:17:404:ILE:HD11	1.78	0.49
1:18:186:GLU:HG2	1:18:241:ARG:HB3	1.93	0.49
3:D:13:LEU:HD13	3:D:89:PHE:HE2	1.77	0.49
4:E:118:GLN:HA	4:E:161:LEU:HD21	1.94	0.49
4:I:137:LEU:HD13	4:I:225:LEU:HD11	1.95	0.49
4:I:576:VAL:HG22	4:I:602:SER:HB3	1.95	0.49
4:I:777:LEU:O	4:I:805:LEU:HA	2.12	0.49
4:i:139:SER:HA	4:i:147:HIS:HD2	1.78	0.49
4:i:248:ASP:HA	4:i:267:MET:SD	2.52	0.49
4:i:323:PHE:HE1	4:i:327:ARG:HE	1.59	0.49
7:o:62:PHE:HA	7:o:95:PRO:HG3	1.95	0.49
1:z:175:ILE:HG21	1:z:221:TYR:CE1	2.47	0.49
1:3:122:ILE:HD13	1:3:137:LYS:HB3	1.93	0.49
1:3:310:GLU:H	1:3:664:ALA:HB2	1.77	0.49
1:4:140:TRP:CZ2	1:4:289:ARG:HD2	2.48	0.49
1:7:317:VAL:HA	1:7:320:VAL:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:12:178:LEU:HD13	1:12:248:GLU:HB3	1.94	0.49
10:N:65:LEU:O	10:N:69:ILE:HG13	2.12	0.49
10:N:569:SER:HB2	10:N:572:HIS:CE1	2.48	0.49
13:A:492:VAL:HG12	13:A:572:PHE:HZ	1.77	0.49
13:A:804:TYR:CE2	13:A:806:ASN:HB2	2.47	0.49
10:n:768:LEU:HB3	10:n:800:ASN:HB2	1.94	0.49
8:p:4:GLN:O	8:p:68:THR:HA	2.13	0.49
13:a:293:SER:O	13:a:297:LEU:HG	2.12	0.49
14:b:492:HIS:CD2	14:b:513:ILE:HD13	2.47	0.49
13:f:856:THR:HG23	13:f:858:ARG:HH22	1.76	0.49
14:g:436:VAL:HG11	14:g:476:HIS:HB2	1.95	0.49
1:14:425:VAL:HG13	1:14:454:GLN:HB3	1.94	0.49
3:D:45:TYR:HB3	3:D:83:ARG:HG3	1.93	0.49
4:E:691:TYR:HD1	4:E:720:LYS:HB2	1.78	0.49
4:I:463:MET:HE3	4:I:503:LEU:HB2	1.93	0.49
5:J:389:TRP:HB3	5:J:396:ILE:CG2	2.43	0.49
8:Q:242:LYS:HB2	8:Q:251:LEU:HA	1.94	0.49
1:Z:175:ILE:HG21	1:Z:221:TYR:CE1	2.48	0.49
2:c:49:MET:SD	2:c:54:ALA:HB2	2.52	0.49
3:d:99:ASP:O	3:d:103:THR:HG23	2.13	0.49
4:i:186:PHE:HD1	4:i:191:VAL:HG21	1.77	0.49
4:i:236:TRP:CE3	4:i:256:SER:HA	2.46	0.49
4:i:891:LEU:HB3	4:i:919:LEU:HD12	1.93	0.49
8:q:206:THR:C	8:q:275:LEU:HG	2.37	0.49
1:z:49:LEU:O	1:z:77:VAL:HA	2.13	0.49
1:3:294:ILE:HB	1:3:353:TYR:CE1	2.47	0.49
1:6:178:LEU:HD13	1:6:248:GLU:HB3	1.94	0.49
1:8:191:ILE:HG22	1:8:195:TYR:HE2	1.77	0.49
1:9:349:MET:CE	1:9:364:ILE:HG12	2.41	0.49
8:P:66:ASN:HD22	8:P:66:ASN:N	2.09	0.49
11:L:1:MET:N	11:L:129:CYS:HB2	2.28	0.49
14:G:463:LEU:HD22	14:G:500:ARG:HG2	1.95	0.49
10:n:626:LEU:HD21	10:n:635:LEU:HD21	1.93	0.49
11:l:31:ASP:N	11:l:37:HIS:HB2	2.27	0.49
11:l:238:THR:HG21	11:l:318:ARG:HD3	1.94	0.49
11:l:257:MET:HB3	11:l:266:PHE:CZ	2.46	0.49
13:a:886:CYS:SG	13:a:888:LEU:HD23	2.53	0.49
14:b:428:PRO:HG2	14:b:452:ARG:HH22	1.78	0.49
13:f:846:TYR:HA	13:f:849:ILE:HD12	1.95	0.49
13:f:931:VAL:HG11	13:f:959:ALA:HB1	1.93	0.49
1:11:499:PHE:HB3	1:11:544:ARG:HH22	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:19:247:VAL:HG12	1:19:248:GLU:H	1.77	0.49
1:19:306:TYR:HB2	1:19:667:ILE:HG22	1.94	0.49
1:15:92:LEU:HG	1:15:108:VAL:HG22	1.94	0.49
1:15:170:GLU:HB3	1:15:174:GLU:HB2	1.93	0.49
1:17:181:MET:HE3	1:17:247:VAL:HG21	1.94	0.49
1:18:114:ILE:HD11	1:18:191:ILE:HD13	1.93	0.49
1:1:178:LEU:HD13	1:1:248:GLU:HB3	1.94	0.49
4:e:604:GLU:HA	4:e:643:THR:HA	1.94	0.49
5:j:118:LYS:NZ	5:j:136:SER:HB3	2.28	0.49
1:3:677:TRP:O	1:3:680:MET:HG3	2.13	0.49
1:4:577:GLN:HA	1:4:602:PHE:CZ	2.47	0.49
1:4:604:ASP:O	1:4:618:PRO:HG2	2.13	0.49
1:5:273:ASP:HB2	1:5:276:ILE:HG13	1.95	0.49
10:N:328:ARG:HG2	10:N:397:LEU:O	2.12	0.49
11:L:164:MET:HE3	11:L:195:ASN:HD21	1.77	0.49
13:F:779:THR:HG22	13:F:781:LYS:H	1.78	0.49
13:F:987:ALA:HA	13:F:990:LEU:HD13	1.95	0.49
10:n:261:MET:HB3	10:n:519:ARG:NH1	2.27	0.49
11:l:172:SER:HB2	11:l:204:ASN:HB3	1.94	0.49
12:m:2:ARG:CZ	12:m:249:ASP:HB2	2.43	0.49
12:m:286:VAL:HG11	12:m:326:VAL:HG22	1.95	0.49
13:a:982:PRO:HB3	13:a:1011:GLN:HE22	1.77	0.49
13:f:826:HIS:CD2	13:f:828:LYS:HB2	2.48	0.49
1:11:262:SER:HB3	1:11:287:MET:HE1	1.94	0.49
1:19:322:LYS:NZ	1:13:628:THR:HG23	2.27	0.49
1:16:602:PHE:HB2	1:16:620:PRO:O	2.13	0.49
1:14:568:GLU:OE2	1:14:570:LYS:HG2	2.13	0.49
1:13:377:PRO:HA	1:13:380:TYR:HD2	1.77	0.49
1:17:19:CYS:SG	1:17:79:MET:HE3	2.53	0.49
1:18:24:GLU:HB2	1:18:78:ARG:CZ	2.43	0.49
1:18:463:TRP:CZ3	1:18:464:LEU:HG	2.47	0.49
1:1:115:GLU:HB3	1:1:186:GLU:OE2	2.12	0.49
1:1:262:SER:HB3	1:1:287:MET:HE1	1.94	0.49
4:E:112:LYS:HE3	4:E:439:ILE:HA	1.95	0.49
4:e:105:LEU:HB2	4:e:168:LEU:HD13	1.95	0.49
4:i:137:LEU:HD12	4:i:166:LEU:HD11	1.95	0.49
5:j:396:ILE:HG21	5:j:437:LEU:HD22	1.94	0.49
1:z:491:LEU:HB3	1:z:575:ILE:HD11	1.95	0.49
1:6:264:SER:HA	1:6:284:ASP:O	2.13	0.49
1:7:39:SER:HA	1:7:68:SER:HA	1.93	0.49
1:9:203:GLU:HA	1:9:230:PRO:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:12:464:LEU:HD22	1:12:468:HIS:O	2.13	0.49
1:12:577:GLN:NE2	1:12:604:ASP:HA	2.28	0.49
10:N:70:PHE:HB2	10:N:110:TYR:CE1	2.48	0.49
11:L:54:ALA:HB2	11:L:60:VAL:HG22	1.94	0.49
13:A:982:PRO:HB3	13:A:1011:GLN:HE22	1.77	0.49
13:F:279:ILE:HD13	13:F:321:PHE:CE1	2.48	0.49
10:n:794:SER:O	10:n:798:LEU:HG	2.13	0.49
8:p:58:LEU:HB3	8:p:63:VAL:HG21	1.93	0.49
13:a:308:LEU:HA	13:a:311:LYS:HE3	1.94	0.49
13:f:294:LEU:O	13:f:298:ILE:HG13	2.13	0.49
13:f:689:LEU:HG	13:f:743:LEU:HD11	1.95	0.49
14:g:463:LEU:HD22	14:g:500:ARG:HG2	1.95	0.49
14:g:517:LYS:HD3	14:g:558:ASP:HA	1.93	0.49
1:19:130:MET:N	1:19:130:MET:HE2	2.28	0.49
1:19:203:GLU:HA	1:19:230:PRO:HB3	1.95	0.49
1:19:411:PRO:HG2	1:19:488:PHE:CD2	2.48	0.49
1:19:599:ARG:HH21	1:19:656:LEU:HB3	1.76	0.49
1:14:431:PHE:CE2	1:13:283:LYS:HB2	2.47	0.49
1:13:446:GLU:HA	1:13:449:TYR:HB2	1.94	0.49
1:18:299:THR:HB	1:18:477:PRO:HB3	1.95	0.49
4:E:108:ASP:HB3	4:E:440:ARG:HH12	1.78	0.49
5:J:350:GLY:O	5:J:358:VAL:HG12	2.12	0.49
6:K:68:ASP:OD1	12:M:340:TYR:HB2	2.12	0.49
1:Z:145:ASN:CG	1:8:101:GLU:HB3	2.37	0.49
2:c:44:PRO:HB3	2:c:92:PHE:CE2	2.47	0.49
2:c:112:HIS:O	2:c:117:LEU:HB3	2.13	0.49
5:j:127:LYS:HE3	13:f:851:THR:HG23	1.95	0.49
6:k:24:SER:HB3	6:k:27:ILE:HB	1.95	0.49
1:z:197:LEU:HB2	1:z:265:LEU:HD11	1.95	0.49
1:3:200:HIS:HE1	1:3:283:LYS:HE3	1.78	0.49
1:3:377:PRO:HA	1:3:380:TYR:HD2	1.78	0.49
1:6:131:PRO:HG2	1:6:137:LYS:NZ	2.28	0.49
1:6:132:SER:HB2	1:6:137:LYS:HG2	1.95	0.49
1:6:210:ARG:HG2	1:6:227:PRO:HD3	1.94	0.49
1:6:376:PHE:O	1:6:379:LYS:HG2	2.13	0.49
1:8:2:SER:HA	1:8:18:LEU:HD12	1.95	0.49
1:8:486:LYS:HD2	1:8:488:PHE:HE1	1.78	0.49
1:8:543:PHE:HE2	1:8:578:LEU:HD22	1.78	0.49
1:9:57:ILE:HG12	1:9:63:THR:HB	1.95	0.49
1:12:140:TRP:HB2	1:12:287:MET:HE1	1.95	0.49
8:P:325:HIS:ND1	8:P:344:MET:HE2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M:165:ASN:HA	12:M:198:GLU:O	2.13	0.49
13:f:270:LYS:O	13:f:271:LEU:HD22	2.12	0.49
13:f:470:PHE:HE2	13:f:607:ILE:HG12	1.76	0.49
1:11:39:SER:OG	1:11:96:PHE:HB2	2.12	0.49
1:16:379:LYS:HA	1:16:382:LEU:HD12	1.95	0.49
1:14:213:TRP:HE3	1:14:224:VAL:HG11	1.78	0.49
1:13:677:TRP:O	1:13:680:MET:HG3	2.12	0.49
1:17:269:GLU:HB3	1:17:279:ILE:HG23	1.95	0.49
1:17:317:VAL:HA	1:17:320:VAL:HG22	1.95	0.49
2:C:44:PRO:HB3	2:C:92:PHE:CE2	2.48	0.49
4:I:406:TRP:CD1	4:I:475:VAL:HA	2.48	0.49
4:I:776:TYR:HA	4:I:804:HIS:HB2	1.95	0.49
4:e:349:LEU:O	4:e:353:ILE:HG13	2.13	0.49
1:5:114:ILE:HG22	1:5:116:ILE:HG13	1.95	0.49
1:6:213:TRP:CE3	1:6:215:GLN:HG2	2.48	0.49
1:6:319:SER:HA	1:6:322:LYS:HD2	1.95	0.49
1:8:401:LEU:HD12	1:8:438:ARG:O	2.13	0.49
1:9:43:ARG:HG3	1:9:63:THR:H	1.78	0.49
1:9:247:VAL:HG12	1:9:248:GLU:H	1.77	0.49
1:9:463:TRP:H	1:9:463:TRP:CD1	2.30	0.49
10:N:213:THR:HG23	10:N:426:PRO:HB2	1.95	0.49
10:N:273:HIS:C	10:N:274:MET:HE2	2.38	0.49
10:N:794:SER:O	10:N:798:LEU:HG	2.13	0.49
8:P:718:GLU:HB3	8:P:782:ARG:HH21	1.78	0.49
11:L:138:SER:HA	11:L:169:VAL:HG22	1.94	0.49
11:L:171:PRO:HG3	11:L:181:GLU:HG2	1.95	0.49
11:L:172:SER:HB2	11:L:204:ASN:HB3	1.95	0.49
13:A:892:ILE:HG23	13:A:920:CYS:HB3	1.94	0.49
14:B:521:ASN:HD21	14:B:524:TRP:HE1	1.60	0.49
13:F:628:GLN:HE21	13:F:661:PHE:HD1	1.61	0.49
13:F:1101:GLY:C	13:F:1102:MET:HE2	2.38	0.49
10:n:42:TRP:HZ2	10:n:98:LYS:HB3	1.77	0.49
12:m:300:MET:HB3	12:m:301:ALA:H	1.51	0.49
13:a:528:PHE:HB3	13:a:532:ILE:HD12	1.94	0.49
13:f:779:THR:HG22	13:f:781:LYS:H	1.78	0.49
1:11:379:LYS:HA	1:11:382:LEU:HD23	1.94	0.49
1:15:25:ILE:O	1:15:76:LEU:HA	2.12	0.49
1:14:529:ARG:HH12	1:14:599:ARG:NH1	2.11	0.49
1:18:206:ALA:HA	1:18:209:THR:HG22	1.93	0.49
4:E:127:GLN:HA	4:E:130:TYR:CD2	2.48	0.48
4:I:668:VAL:HG22	4:I:693:ASP:HB3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:260:LEU:HD21	1:Z:289:ARG:CZ	2.43	0.48
4:e:691:TYR:HD1	4:e:720:LYS:HB2	1.78	0.48
2:h:38:ILE:O	2:h:41:VAL:HG22	2.13	0.48
5:j:350:GLY:O	5:j:358:VAL:HG12	2.13	0.48
1:2:208:LYS:HG3	1:2:257:PHE:CE1	2.47	0.48
1:4:200:HIS:CE1	1:4:264:SER:HB2	2.48	0.48
1:6:379:LYS:HA	1:6:382:LEU:HD12	1.94	0.48
1:7:422:LEU:HD23	1:7:673:PHE:HD2	1.78	0.48
1:9:411:PRO:HG2	1:9:488:PHE:CD2	2.49	0.48
10:N:356:THR:HB	8:P:341:GLU:OE2	2.13	0.48
10:N:650:LEU:HD21	10:N:664:LEU:HD21	1.95	0.48
10:N:870:LEU:HB2	10:N:899:LEU:HD21	1.95	0.48
13:A:293:SER:O	13:A:297:LEU:HG	2.12	0.48
14:G:436:VAL:HG11	14:G:476:HIS:HB2	1.95	0.48
10:n:394:PHE:O	10:n:398:ARG:HB3	2.13	0.48
8:p:363:GLU:O	8:p:363:GLU:HG2	2.13	0.48
11:l:416:ASN:HA	11:l:419:VAL:HG12	1.94	0.48
1:19:618:PRO:HB3	1:19:655:TYR:CZ	2.47	0.48
1:15:20:MET:HB2	1:15:23:MET:CE	2.40	0.48
1:16:210:ARG:HG2	1:16:227:PRO:HD3	1.94	0.48
1:16:350:ALA:O	1:16:364:ILE:HG13	2.12	0.48
1:14:140:TRP:CZ2	1:14:289:ARG:HD2	2.48	0.48
1:13:115:GLU:O	1:13:185:VAL:HA	2.13	0.48
4:I:137:LEU:HD12	4:I:166:LEU:HD11	1.95	0.48
4:I:904:GLU:CB	9:R:66:GLN:HE22	2.13	0.48
9:R:64:GLY:HA3	9:R:83:HIS:HE1	1.74	0.48
4:e:231:LEU:HB3	4:e:236:TRP:NE1	2.28	0.48
4:e:827:PRO:HA	4:e:856:ASN:HA	1.95	0.48
4:i:149:VAL:HG22	4:i:293:ASP:HB3	1.95	0.48
4:i:153:GLY:HA3	4:i:157:VAL:HG11	1.95	0.48
4:i:573:ILE:HB	4:i:596:LEU:HD21	1.94	0.48
6:k:154:ARG:NH2	6:k:157:ASN:HB2	2.25	0.48
1:z:119:GLU:HB3	1:z:128:LEU:HD12	1.95	0.48
1:z:373:LEU:HB2	1:z:376:PHE:HE1	1.78	0.48
1:2:558:ARG:NH1	1:2:572:ILE:HG21	2.29	0.48
1:4:529:ARG:HH12	1:4:599:ARG:NH1	2.11	0.48
1:5:197:LEU:HB3	1:5:265:LEU:HD11	1.95	0.48
1:9:178:LEU:HB3	1:9:247:VAL:O	2.13	0.48
1:9:319:SER:HB2	1:9:649:ILE:HG23	1.94	0.48
10:N:638:LYS:HG2	10:N:639:GLU:HG3	1.95	0.48
8:P:64:ARG:H	8:P:64:ARG:HG2	1.39	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:P:468:ALA:HB2	8:P:542:ASN:HD22	1.78	0.48
11:L:415:MET:HE1	11:L:418:LEU:HD23	1.95	0.48
13:F:427:LEU:HD12	13:F:461:LEU:HB2	1.95	0.48
13:F:681:ASP:HA	13:F:684:VAL:HG22	1.94	0.48
11:l:1:MET:N	11:l:129:CYS:HB2	2.28	0.48
13:a:308:LEU:O	13:a:312:ILE:HG12	2.13	0.48
1:19:310:GLU:HG2	1:19:662:VAL:HG12	1.94	0.48
1:16:459:LEU:HB2	1:16:469:MET:HE1	1.94	0.48
1:13:521:ALA:HA	1:13:524:LEU:HD12	1.95	0.48
2:C:141:LEU:O	2:C:144:LYS:HG2	2.14	0.48
4:E:707:LEU:HA	4:E:710:ILE:HD12	1.93	0.48
5:J:89:THR:HB	1:z:173:ARG:CZ	2.43	0.48
5:J:437:LEU:HD21	5:J:444:ILE:HG23	1.96	0.48
4:i:406:TRP:CD1	4:i:475:VAL:HA	2.48	0.48
5:j:46:CYS:SG	5:j:70:PHE:HB2	2.53	0.48
8:q:243:ARG:HG2	8:q:248:ALA:HB3	1.94	0.48
1:6:42:ILE:HG12	1:6:50:ILE:HG21	1.94	0.48
1:6:420:TYR:CD1	1:6:424:ARG:HG2	2.47	0.48
1:7:151:LEU:HD11	1:7:248:GLU:HA	1.94	0.48
1:7:295:PHE:HZ	1:7:404:ILE:HD11	1.78	0.48
1:12:203:GLU:HG2	1:12:207:LYS:HE3	1.94	0.48
1:12:297:PRO:HA	1:12:409:VAL:HB	1.95	0.48
1:12:599:ARG:HG3	1:12:600:PRO:HD2	1.96	0.48
8:P:732:VAL:HG11	8:P:737:LEU:HD13	1.95	0.48
11:L:272:PRO:HD3	11:L:292:GLN:HG2	1.93	0.48
12:M:44:LEU:O	12:M:47:ILE:HG22	2.12	0.48
12:M:90:PHE:HB3	12:M:92:PHE:HE1	1.78	0.48
13:A:886:CYS:SG	13:A:888:LEU:HD23	2.53	0.48
13:F:1024:ILE:HD11	13:F:1051:GLY:HA3	1.95	0.48
10:n:638:LYS:HG2	10:n:639:GLU:HG3	1.95	0.48
14:b:298:VAL:HG21	14:b:348:THR:HA	1.95	0.48
13:f:681:ASP:HA	13:f:684:VAL:HG22	1.93	0.48
13:f:1020:LEU:HA	13:f:1023:MET:HE2	1.95	0.48
1:18:478:THR:OG1	1:18:642:LEU:HD12	2.13	0.48
2:C:112:HIS:O	2:C:117:LEU:HB3	2.13	0.48
4:E:133:PHE:HB3	4:E:176:PHE:HZ	1.78	0.48
4:E:326:VAL:HG22	4:E:332:LEU:HD13	1.95	0.48
4:I:186:PHE:HD1	4:I:191:VAL:HG21	1.77	0.48
4:I:232:GLU:HB3	4:I:278:THR:H	1.78	0.48
4:I:919:LEU:HD23	4:I:921:LEU:HD11	1.94	0.48
1:Z:138:LYS:O	1:Z:287:MET:HE2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:90:ILE:HG22	4:e:92:GLY:H	1.79	0.48
2:h:50:GLU:HA	2:h:86:LEU:HA	1.95	0.48
1:2:47:ARG:NH2	1:2:88:GLU:HG3	2.28	0.48
1:2:140:TRP:HB2	1:2:287:MET:HE1	1.94	0.48
1:2:196:GLN:HB3	1:2:233:LEU:HD11	1.95	0.48
1:4:20:MET:HE1	1:4:116:ILE:H	1.78	0.48
1:4:130:MET:H	1:5:43:ARG:NH2	2.11	0.48
1:4:180:GLN:HB2	1:4:246:TYR:CE2	2.48	0.48
1:4:453:VAL:HA	1:4:680:MET:HE2	1.96	0.48
1:6:122:ILE:HD12	1:6:147:TRP:HB2	1.95	0.48
1:7:297:PRO:HB3	1:7:409:VAL:HG12	1.95	0.48
8:P:674:GLN:HA	8:P:677:LEU:HD12	1.96	0.48
13:A:989:LYS:O	13:A:992:CYS:HB2	2.14	0.48
13:F:826:HIS:CD2	13:F:828:LYS:HB2	2.48	0.48
10:n:447:LEU:HD22	10:n:455:ILE:HD11	1.96	0.48
10:n:940:ARG:HH22	10:n:963:LYS:HE2	1.79	0.48
13:a:266:TRP:HD1	13:a:272:PHE:HB2	1.79	0.48
13:a:679:LYS:HD2	13:a:729:LEU:HD13	1.94	0.48
14:b:296:LEU:HD23	14:b:312:SER:HB3	1.94	0.48
1:19:7:LEU:HD21	1:19:17:ALA:HB2	1.95	0.48
1:19:340:ARG:HH21	1:19:376:PHE:HA	1.77	0.48
1:15:118:LEU:HD13	1:15:181:MET:SD	2.53	0.48
1:16:307:LEU:HD13	1:16:320:VAL:HG11	1.95	0.48
1:14:45:SER:HB2	1:14:46:PRO:HD2	1.95	0.48
1:14:453:VAL:HA	1:14:680:MET:HE2	1.96	0.48
1:13:134:LYS:HG3	1:13:135:GLN:HG2	1.95	0.48
1:17:92:LEU:HD22	1:17:108:VAL:HG22	1.96	0.48
1:17:151:LEU:HD11	1:17:248:GLU:HA	1.93	0.48
2:C:49:MET:SD	2:C:54:ALA:HB2	2.52	0.48
3:D:99:ASP:O	3:D:103:THR:HG23	2.12	0.48
3:d:13:LEU:HD13	3:d:89:PHE:HE2	1.77	0.48
3:d:31:LYS:H	3:d:31:LYS:HE3	1.77	0.48
4:e:563:LEU:HD22	4:e:588:TYR:CE2	2.48	0.48
4:e:599:LEU:HG	4:e:601:PHE:HD1	1.78	0.48
4:i:163:LEU:HD12	4:i:229:ASP:HB2	1.95	0.48
5:j:84:ILE:HG13	5:j:85:PRO:HD2	1.95	0.48
5:j:112:THR:HA	5:j:159:ASP:HB3	1.95	0.48
8:q:284:ARG:HD2	8:q:295:PRO:HA	1.95	0.48
1:2:224:VAL:HG23	1:2:225:VAL:HG23	1.94	0.48
1:3:446:GLU:HA	1:3:449:TYR:HB2	1.94	0.48
1:3:569:ASP:HA	1:3:572:ILE:HB	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:623:PRO:CG	1:3:631:LEU:HG	2.44	0.48
1:5:464:LEU:HD11	1:5:472:PHE:HB3	1.96	0.48
1:5:581:LEU:HA	1:5:598:ALA:HA	1.96	0.48
8:P:8:MET:HE2	8:P:71:LEU:O	2.13	0.48
14:B:492:HIS:CD2	14:B:513:ILE:HD13	2.48	0.48
13:F:705:LEU:C	13:F:707:SER:N	2.72	0.48
8:p:674:GLN:HA	8:p:677:LEU:HD12	1.95	0.48
12:m:165:ASN:HA	12:m:198:GLU:O	2.12	0.48
14:b:521:ASN:HD21	14:b:524:TRP:HE1	1.59	0.48
13:f:297:LEU:HA	13:f:300:LYS:HE2	1.95	0.48
1:19:24:GLU:CD	1:19:76:LEU:HB3	2.38	0.48
1:19:517:GLU:HG3	1:19:624:LYS:HB2	1.94	0.48
1:16:319:SER:HA	1:16:322:LYS:HD2	1.95	0.48
1:16:355:GLN:HB3	1:16:677:TRP:CD1	2.49	0.48
1:17:86:VAL:HG13	1:17:191:ILE:HD11	1.95	0.48
1:18:189:THR:HA	1:18:192:LEU:HD12	1.95	0.48
4:E:599:LEU:HG	4:E:601:PHE:HD1	1.79	0.48
4:E:751:LEU:HD12	4:E:779:LEU:HD23	1.95	0.48
6:K:47:LEU:HD13	6:K:50:VAL:HB	1.94	0.48
7:O:98:THR:HG23	7:O:101:LYS:HE3	1.94	0.48
4:e:751:LEU:HD12	4:e:779:LEU:HD23	1.96	0.48
4:i:590:LEU:HB3	4:i:628:VAL:HG11	1.94	0.48
7:o:50:PHE:HE2	7:o:110:LEU:HD11	1.78	0.48
9:r:64:GLY:HA3	9:r:83:HIS:HE1	1.75	0.48
1:z:116:ILE:HD12	1:z:267:LEU:HD22	1.95	0.48
1:z:207:LYS:HA	1:z:227:PRO:HA	1.95	0.48
1:3:45:SER:HB2	1:3:48:ILE:HB	1.95	0.48
1:3:171:GLY:O	1:3:175:ILE:HG12	2.13	0.48
1:7:48:ILE:HD11	1:7:89:ASP:HB3	1.95	0.48
1:8:255:PRO:HG3	1:8:446:GLU:HB3	1.96	0.48
1:9:618:PRO:HB3	1:9:655:TYR:CZ	2.48	0.48
12:M:318:ARG:HB3	12:M:363:MET:O	2.13	0.48
14:B:369:ILE:HG12	14:B:383:GLN:HE22	1.78	0.48
14:B:428:PRO:HG2	14:B:452:ARG:HH22	1.78	0.48
13:F:689:LEU:HD23	13:F:739:VAL:HG12	1.96	0.48
10:n:423:ILE:HD12	10:n:480:LEU:HD13	1.95	0.48
8:p:728:CYS:C	8:p:729:GLN:HG3	2.38	0.48
12:m:345:ILE:O	12:m:345:ILE:HG13	2.13	0.48
13:a:251:PRO:HB3	13:a:373:ARG:NE	2.29	0.48
1:11:372:LYS:HZ3	1:11:374:GLU:HA	1.79	0.48
1:19:225:VAL:HG13	1:19:229:LYS:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:15:19:CYS:SG	1:15:25:ILE:HD11	2.54	0.48
1:16:376:PHE:O	1:16:379:LYS:HG2	2.13	0.48
1:14:308:CYS:HA	1:14:334:VAL:HB	1.96	0.48
1:13:39:SER:HA	1:13:68:SER:HA	1.94	0.48
4:I:361:SER:HA	4:I:364:ARG:HG2	1.96	0.48
4:I:648:PRO:O	4:I:652:VAL:HG23	2.14	0.48
7:O:50:PHE:HE2	7:O:110:LEU:HD11	1.78	0.48
3:d:118:ALA:HB1	4:e:383:ALA:HB3	1.95	0.48
4:e:112:LYS:HE3	4:e:439:ILE:HA	1.96	0.48
4:e:355:LYS:NZ	4:e:376:SER:HB3	2.29	0.48
2:h:91:ILE:HG21	2:h:101:MET:HE1	1.95	0.48
1:3:348:GLU:O	1:3:349:MET:HE2	2.14	0.48
1:4:174:GLU:O	1:4:178:LEU:HG	2.13	0.48
1:6:37:CYS:HA	1:6:97:CYS:HA	1.96	0.48
1:7:257:PHE:CE2	1:7:259:GLY:HA2	2.49	0.48
1:9:50:ILE:HG22	1:9:52:ILE:HG12	1.96	0.48
10:N:447:LEU:HD22	10:N:455:ILE:HD11	1.96	0.48
13:F:535:GLN:HB2	13:F:544:TYR:CD2	2.49	0.48
8:p:325:HIS:ND1	8:p:344:MET:HE2	2.29	0.48
11:l:102:ALA:O	11:l:106:TYR:HB2	2.13	0.48
13:a:405:LEU:O	13:a:408:ILE:HG12	2.13	0.48
13:a:794:LYS:HA	1:11:311:LEU:HD22	1.95	0.48
13:f:1101:GLY:C	13:f:1102:MET:HE2	2.39	0.48
1:19:299:THR:HB	1:19:477:PRO:HB3	1.96	0.48
1:15:615:LEU:HD12	1:15:644:LEU:HB3	1.96	0.48
1:16:465:MET:HE1	1:16:599:ARG:HD2	1.96	0.48
1:14:344:TRP:HA	1:14:347:ASP:HB2	1.96	0.48
1:14:351:PHE:CZ	1:14:669:ASN:HB2	2.49	0.48
1:13:391:ARG:HG2	1:13:444:LEU:HD13	1.94	0.48
1:1:28:ASP:HA	1:1:74:VAL:HG22	1.96	0.48
4:E:105:LEU:HB2	4:E:168:LEU:HD13	1.95	0.48
4:E:231:LEU:HB3	4:E:236:TRP:NE1	2.28	0.48
4:I:108:ASP:HA	4:I:440:ARG:NH2	2.29	0.48
5:J:396:ILE:HG21	5:J:437:LEU:HD22	1.94	0.48
6:K:63:THR:HA	6:K:66:LYS:HD3	1.96	0.48
1:Z:253:PRO:HG2	1:Z:292:PRO:HB3	1.95	0.48
2:c:141:LEU:O	2:c:144:LYS:HG2	2.13	0.48
4:e:188:CYS:HB2	4:e:230:SER:O	2.14	0.48
4:i:464:LEU:HD22	4:i:519:ARG:HB3	1.96	0.48
5:j:11:MET:HG3	5:j:40:PHE:CE1	2.48	0.48
8:q:242:LYS:HB2	8:q:251:LEU:HA	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:465:MET:HE1	1:2:584:LEU:HA	1.96	0.48
1:3:48:ILE:C	1:3:59:GLY:HA2	2.39	0.48
1:4:20:MET:HE1	1:4:116:ILE:HB	1.96	0.48
1:4:568:GLU:OE2	1:4:570:LYS:HG2	2.13	0.48
1:12:558:ARG:NH1	1:12:572:ILE:HG21	2.29	0.48
10:N:122:LYS:HE3	10:N:166:GLU:OE1	2.14	0.48
12:M:2:ARG:CZ	12:M:249:ASP:HB2	2.43	0.48
12:M:322:SER:O	12:M:326:VAL:HG23	2.14	0.48
13:A:528:PHE:HB3	13:A:532:ILE:HD12	1.94	0.48
14:B:335:LEU:HD13	14:B:371:TRP:CE2	2.48	0.48
13:F:294:LEU:O	13:F:298:ILE:HG13	2.12	0.48
13:F:857:THR:HG22	13:F:859:LEU:N	2.29	0.48
14:G:422:VAL:HG12	14:G:423:ARG:HG3	1.95	0.48
10:n:152:SER:O	10:n:154:PRO:HD3	2.14	0.48
10:n:487:HIS:CE1	10:n:520:ILE:HG13	2.49	0.48
11:l:322:SER:O	11:l:326:VAL:HG23	2.14	0.48
12:m:101:TRP:CD1	12:m:145:SER:HB3	2.49	0.48
14:b:335:LEU:HD13	14:b:371:TRP:CE2	2.48	0.48
14:g:422:VAL:HG12	14:g:423:ARG:HG3	1.95	0.48
14:g:451:LEU:HD12	14:g:485:LEU:HD21	1.96	0.48
1:19:57:ILE:HG12	1:19:63:THR:HB	1.96	0.48
1:15:268:VAL:HG22	1:15:280:PRO:HB3	1.95	0.48
1:17:257:PHE:CE2	1:17:259:GLY:HA2	2.49	0.48
1:18:517:GLU:HB2	1:18:624:LYS:HE3	1.95	0.48
4:E:577:ALA:HB3	4:E:603:THR:HA	1.95	0.48
2:H:50:GLU:HA	2:H:86:LEU:HA	1.95	0.48
5:J:118:LYS:NZ	5:J:136:SER:HB3	2.28	0.48
5:J:307:ARG:HG3	5:J:307:ARG:O	2.12	0.48
1:Z:213:TRP:HE3	1:Z:224:VAL:HG11	1.79	0.48
4:e:127:GLN:HA	4:e:130:TYR:CD2	2.48	0.48
4:i:361:SER:HA	4:i:364:ARG:HG2	1.95	0.48
4:i:681:PHE:CE1	4:i:706:LEU:HB3	2.49	0.48
4:i:776:TYR:HA	4:i:804:HIS:HB2	1.95	0.48
4:i:817:LEU:HD23	4:i:845:GLY:HA3	1.96	0.48
5:j:437:LEU:HD21	5:j:444:ILE:HG23	1.96	0.48
8:q:255:ILE:HD13	10:n:407:PRO:HB3	1.96	0.48
1:2:178:LEU:HD13	1:2:248:GLU:HB3	1.94	0.48
1:2:341:GLN:HG2	1:2:342:SER:H	1.79	0.48
1:3:157:PRO:HA	1:3:160:VAL:HB	1.96	0.48
1:3:652:PHE:CE1	1:3:656:LEU:HD12	2.49	0.48
1:4:5:ASN:HA	1:4:25:ILE:HG23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4:40:PHE:HD1	1:4:69:MET:HE2	1.78	0.48
1:6:602:PHE:HB2	1:6:620:PRO:O	2.14	0.48
11:L:156:ARG:HH11	11:L:195:ASN:HB2	1.79	0.48
12:M:31:ASP:HB3	12:M:35:SER:H	1.79	0.48
13:A:251:PRO:HB3	13:A:373:ARG:NE	2.29	0.48
13:A:860:LYS:HZ2	13:A:890:LYS:HD2	1.79	0.48
13:A:992:CYS:SG	13:A:1023:MET:HE1	2.54	0.48
14:G:451:LEU:HD12	14:G:485:LEU:HD21	1.96	0.48
14:b:498:ARG:HB2	14:b:499:LYS:HZ2	1.79	0.48
1:19:479:ASN:HB3	1:19:643:GLY:HA3	1.96	0.48
1:15:342:SER:HB2	1:15:663:CYS:H	1.79	0.48
1:16:264:SER:HA	1:16:284:ASP:O	2.12	0.48
1:16:364:ILE:HG23	1:16:388:TYR:CD1	2.49	0.48
1:13:97:CYS:HB3	1:13:98:PRO:HD2	1.95	0.48
1:1:372:LYS:HZ3	1:1:374:GLU:HA	1.79	0.48
4:E:231:LEU:HB3	4:E:236:TRP:HE1	1.79	0.48
4:E:827:PRO:HA	4:E:856:ASN:HA	1.95	0.48
4:I:470:HIS:CE1	4:I:472:SER:HB3	2.49	0.48
8:Q:221:ALA:HB1	8:Q:273:GLU:O	2.14	0.48
1:Z:196:GLN:HE21	1:Z:270:LYS:HG2	1.79	0.48
4:e:336:CYS:HA	4:e:342:CYS:HB2	1.96	0.48
4:e:563:LEU:HD11	4:e:589:CYS:HB2	1.96	0.48
4:i:108:ASP:HA	4:i:440:ARG:NH2	2.29	0.48
4:i:576:VAL:HG22	4:i:602:SER:HB3	1.95	0.48
4:i:590:LEU:O	4:i:628:VAL:HB	2.13	0.48
5:j:396:ILE:HD12	5:j:405:ASP:O	2.14	0.48
8:q:237:VAL:H	8:q:256:ARG:HG3	1.79	0.48
1:z:226:GLY:H	1:z:229:LYS:HB2	1.79	0.48
1:2:155:CYS:O	1:2:387:GLY:HA2	2.14	0.48
1:2:234:LEU:HB3	1:2:237:PHE:CE2	2.49	0.48
1:3:11:LEU:HD22	1:3:32:CYS:HB2	1.96	0.48
1:4:308:CYS:HA	1:4:334:VAL:HB	1.96	0.48
1:5:43:ARG:HD2	1:5:64:VAL:CG1	2.36	0.48
1:6:465:MET:HG3	1:6:597:PHE:HB2	1.95	0.48
1:7:495:PRO:HB2	1:7:547:ASN:HB3	1.95	0.48
1:8:14:PRO:HB3	1:8:108:VAL:HB	1.94	0.48
11:L:238:THR:HG21	11:L:318:ARG:HD3	1.95	0.48
12:M:416:ASN:HA	12:M:419:VAL:HG22	1.96	0.48
13:A:405:LEU:O	13:A:408:ILE:HG12	2.13	0.48
13:F:297:LEU:HA	13:F:300:LYS:HE2	1.95	0.48
13:a:918:HIS:CD2	13:a:947:ARG:HD2	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:427:LEU:HD12	13:f:461:LEU:HB2	1.95	0.48
1:11:314:GLN:H	1:11:317:VAL:HG12	1.79	0.48
1:19:319:SER:HB2	1:19:649:ILE:HG23	1.96	0.48
1:19:402:ASP:HA	1:19:440:MET:HG2	1.95	0.48
1:15:62:ASP:OD1	1:15:64:VAL:HG23	2.14	0.48
1:16:188:PRO:HG2	1:16:191:ILE:HD12	1.96	0.48
1:16:355:GLN:HG2	1:16:677:TRP:H	1.79	0.48
4:I:188:CYS:HB2	4:I:230:SER:O	2.14	0.47
1:Z:502:PHE:CD2	1:Z:534:ILE:HG23	2.49	0.47
4:e:685:GLN:HB3	4:e:710:ILE:HG23	1.96	0.47
4:e:770:PRO:HA	4:e:799:ASN:HD22	1.79	0.47
4:i:226:PHE:HE2	4:i:262:LEU:HD21	1.79	0.47
4:i:648:PRO:O	4:i:652:VAL:HG23	2.14	0.47
4:i:668:VAL:HG22	4:i:693:ASP:HB3	1.94	0.47
1:2:160:VAL:HG21	1:2:388:TYR:HB3	1.95	0.47
1:3:548:THR:HG22	1:3:552:LYS:HE3	1.96	0.47
1:4:49:LEU:HB3	1:4:78:ARG:O	2.13	0.47
1:4:49:LEU:HG	1:4:57:ILE:O	2.14	0.47
1:4:234:LEU:HD21	1:4:245:PHE:HZ	1.79	0.47
11:L:103:LYS:O	11:L:108:GLU:HG2	2.14	0.47
12:M:423:GLN:HA	12:M:426:GLN:HG2	1.94	0.47
13:A:492:VAL:HG11	13:A:568:TRP:CG	2.49	0.47
13:A:666:LEU:HD22	13:A:688:CYS:SG	2.55	0.47
13:A:690:LYS:HG3	13:A:691:HIS:ND1	2.29	0.47
13:F:691:HIS:O	13:F:693:GLN:HG2	2.14	0.47
13:F:705:LEU:O	13:F:707:SER:N	2.46	0.47
13:F:950:LEU:HB3	13:F:953:CYS:SG	2.54	0.47
10:n:279:CYS:HA	10:n:282:LEU:HD12	1.96	0.47
10:n:534:MET:HE1	10:n:570:VAL:HG11	1.95	0.47
10:n:848:GLY:HA2	10:n:877:ILE:HG21	1.95	0.47
10:n:988:CYS:HB3	10:n:991:ASN:HB2	1.96	0.47
13:a:1078:SER:HB3	13:a:1105:LEU:HD23	1.96	0.47
13:f:557:ALA:HA	13:f:560:TYR:HD2	1.79	0.47
14:g:272:LEU:HD12	14:g:275:LEU:HD12	1.96	0.47
14:g:509:LYS:HD2	14:g:535:THR:HG21	1.96	0.47
1:11:29:ILE:HD11	1:11:75:ALA:HB2	1.96	0.47
1:11:605:MET:SD	1:11:635:VAL:HG21	2.53	0.47
1:15:262:SER:HA	1:15:286:VAL:O	2.14	0.47
1:15:679:LYS:HE2	1:14:101:GLU:HB3	1.95	0.47
1:16:40:PHE:CE2	1:16:67:ARG:HB2	2.48	0.47
1:13:548:THR:HG22	1:13:552:LYS:HE3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:18:8:SER:HA	1:18:27:LEU:HA	1.96	0.47
1:1:411:PRO:HG2	1:1:488:PHE:CD2	2.49	0.47
2:C:118:GLN:HG3	2:C:119:ARG:HH22	1.79	0.47
4:E:479:GLU:HG3	4:E:531:CYS:HB2	1.96	0.47
4:I:153:GLY:HA3	4:I:157:VAL:HG11	1.96	0.47
4:I:401:ALA:HB2	4:I:448:PHE:HE2	1.79	0.47
5:J:10:MET:HA	5:J:10:MET:HE3	1.95	0.47
3:d:64:HIS:CD2	3:d:68:MET:HE2	2.49	0.47
4:i:188:CYS:HB2	4:i:230:SER:O	2.14	0.47
4:i:854:LYS:HE2	4:i:883:HIS:HB2	1.94	0.47
6:k:4:ILE:HA	6:k:40:GLY:HA2	1.96	0.47
7:o:107:CYS:C	7:o:111:CYS:HB3	2.28	0.47
1:z:382:LEU:HD11	1:z:388:TYR:CD1	2.44	0.47
1:2:234:LEU:HB3	1:2:237:PHE:HE2	1.77	0.47
1:2:295:PHE:CZ	1:2:404:ILE:HD11	2.48	0.47
1:5:49:LEU:HD12	1:5:58:ALA:HA	1.96	0.47
1:6:40:PHE:CE1	1:6:67:ARG:HB2	2.50	0.47
1:6:118:LEU:H	1:6:131:PRO:HG3	1.79	0.47
1:6:175:ILE:HG21	1:6:221:TYR:CZ	2.49	0.47
1:6:377:PRO:HA	1:6:380:TYR:HD2	1.78	0.47
1:6:421:PRO:HG2	1:6:679:LYS:HD2	1.96	0.47
1:12:160:VAL:HG11	1:12:388:TYR:HD2	1.78	0.47
13:F:602:LEU:HD23	13:F:607:ILE:HD13	1.96	0.47
8:p:527:GLU:HG3	8:p:567:LYS:HB3	1.96	0.47
11:l:171:PRO:HG3	11:l:181:GLU:HG2	1.95	0.47
12:m:90:PHE:HB3	12:m:92:PHE:HE1	1.79	0.47
12:m:203:ASP:H	12:m:299:MET:HE1	1.79	0.47
13:f:1024:ILE:HD11	13:f:1051:GLY:HA3	1.95	0.47
1:15:50:ILE:HB	1:15:57:ILE:HB	1.96	0.47
1:15:273:ASP:HB2	1:15:276:ILE:HG13	1.95	0.47
1:16:189:THR:HG21	1:16:238:GLU:HG2	1.95	0.47
1:14:604:ASP:O	1:14:618:PRO:HG2	2.13	0.47
1:17:495:PRO:HB2	1:17:547:ASN:HB3	1.96	0.47
1:17:547:ASN:ND2	1:17:578:LEU:HD22	2.28	0.47
1:1:160:VAL:HG11	1:1:379:LYS:HD3	1.96	0.47
1:1:287:MET:HA	1:1:287:MET:HE2	1.95	0.47
4:E:227:ILE:HA	4:E:274:LEU:HB2	1.96	0.47
1:Z:200:HIS:CE1	1:Z:264:SER:HB2	2.50	0.47
1:Z:511:GLY:HA2	1:Z:534:ILE:HB	1.95	0.47
3:d:13:LEU:HB2	3:d:74:HIS:CD2	2.49	0.47
1:z:8:SER:HA	1:z:27:LEU:HA	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:602:PHE:HE2	1:z:605:MET:HE1	1.79	0.47
1:8:393:THR:HB	1:8:402:ASP:OD2	2.14	0.47
1:9:485:GLN:HB3	1:9:489:ARG:HH12	1.79	0.47
1:9:629:CYS:HB3	1:9:632:GLU:HB2	1.95	0.47
10:N:85:LEU:HD13	10:N:207:LEU:HD11	1.95	0.47
10:N:487:HIS:CE1	10:N:520:ILE:HG13	2.49	0.47
13:A:308:LEU:O	13:A:312:ILE:HG12	2.13	0.47
13:A:979:THR:HG23	13:A:1008:VAL:HB	1.96	0.47
11:l:391:ARG:HH12	12:m:347:ASN:CB	2.27	0.47
11:l:415:MET:HE1	11:l:418:LEU:HD23	1.95	0.47
13:a:333:LEU:HD13	13:a:335:HIS:HB3	1.97	0.47
13:f:343:ASP:HB2	13:f:344:TRP:CE3	2.49	0.47
13:f:415:ILE:HG13	13:f:721:GLN:HB2	1.96	0.47
13:f:950:LEU:HB3	13:f:953:CYS:SG	2.54	0.47
1:15:198:ILE:HG22	1:15:200:HIS:HD2	1.79	0.47
1:16:9:LEU:HD22	1:16:107:ALA:HB1	1.96	0.47
1:16:39:SER:OG	1:16:96:PHE:HB2	2.14	0.47
1:16:119:GLU:HA	1:16:130:MET:HA	1.97	0.47
1:16:260:LEU:HD13	1:16:287:MET:HE2	1.97	0.47
1:13:523:GLN:NE2	1:13:652:PHE:HB3	2.29	0.47
3:D:13:LEU:HB2	3:D:74:HIS:CD2	2.50	0.47
3:D:118:ALA:HB1	4:E:383:ALA:HB3	1.95	0.47
4:E:90:ILE:HG22	4:E:92:GLY:H	1.78	0.47
4:I:817:LEU:HD23	4:I:845:GLY:HA3	1.96	0.47
5:J:1:MET:HB2	5:J:4:HIS:HA	1.96	0.47
8:Q:224:ASN:ND2	8:Q:233:PHE:H	2.12	0.47
9:R:59:THR:HG22	9:R:65:LEU:HA	1.97	0.47
1:Z:297:PRO:HA	1:Z:409:VAL:HB	1.96	0.47
2:c:118:GLN:HG3	2:c:119:ARG:HH22	1.79	0.47
2:c:129:PHE:HE1	3:d:101:MET:HE3	1.79	0.47
4:e:285:MET:HG2	4:e:288:ARG:HE	1.79	0.47
4:e:326:VAL:HG22	4:e:332:LEU:HD13	1.95	0.47
4:e:463:MET:HE3	4:e:512:LEU:HD13	1.96	0.47
4:e:867:ASN:O	4:e:896:CYS:HA	2.15	0.47
2:h:72:CYS:SG	2:h:101:MET:HB3	2.55	0.47
8:q:224:ASN:HD22	8:q:233:PHE:H	1.63	0.47
1:z:201:THR:HG23	1:z:262:SER:O	2.15	0.47
1:z:494:SER:HB2	1:z:574:LEU:HD22	1.95	0.47
1:2:50:ILE:O	1:2:56:VAL:HA	2.14	0.47
1:5:198:ILE:HG22	1:5:200:HIS:HD2	1.79	0.47
1:6:188:PRO:HG2	1:6:191:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:295:PHE:CZ	1:7:404:ILE:HD11	2.50	0.47
1:7:489:ARG:NH1	1:7:571:ASP:HA	2.28	0.47
10:N:114:THR:H	10:N:156:SER:HB2	1.79	0.47
10:N:848:GLY:HA2	10:N:877:ILE:HG21	1.95	0.47
8:P:421:ASN:HB3	8:P:463:TYR:CE2	2.47	0.47
11:L:102:ALA:O	11:L:106:TYR:HB2	2.13	0.47
14:B:384:LEU:HD22	14:B:414:TRP:CD1	2.49	0.47
11:l:384:GLN:O	11:l:388:MET:HG3	2.15	0.47
13:a:666:LEU:HD22	13:a:688:CYS:SG	2.55	0.47
13:f:535:GLN:HB2	13:f:544:TYR:CD2	2.49	0.47
1:13:48:ILE:C	1:13:59:GLY:HA2	2.40	0.47
1:18:149:ALA:O	1:18:150:ILE:HD13	2.14	0.47
4:E:88:GLY:HA2	14:B:354:ASN:HD22	1.80	0.47
2:H:67:GLU:O	2:H:71:MET:HB2	2.15	0.47
5:J:75:TRP:O	5:J:79:VAL:HG13	2.14	0.47
5:J:396:ILE:HD11	5:J:404:ILE:CG2	2.45	0.47
6:K:24:SER:HB3	6:K:27:ILE:HB	1.95	0.47
1:Z:398:VAL:H	1:Z:591:GLN:NE2	2.12	0.47
4:e:231:LEU:HB3	4:e:236:TRP:HE1	1.79	0.47
4:e:585:VAL:O	4:e:588:TYR:HB3	2.15	0.47
4:i:232:GLU:HB3	4:i:278:THR:H	1.78	0.47
5:j:75:TRP:O	5:j:79:VAL:HG13	2.14	0.47
9:r:50:ARG:HB3	9:r:51:HIS:CE1	2.49	0.47
1:3:391:ARG:HG2	1:3:444:LEU:HD13	1.95	0.47
1:3:621:PHE:O	1:3:622:GLY:C	2.55	0.47
1:5:52:ILE:HG13	1:5:75:ALA:HB2	1.96	0.47
1:5:137:LYS:HE2	1:5:286:VAL:HG22	1.96	0.47
1:5:342:SER:HB2	1:5:663:CYS:H	1.78	0.47
1:6:85:THR:OG1	1:6:88:GLU:HB3	2.14	0.47
1:8:431:PHE:HB2	1:8:460:PHE:HD1	1.78	0.47
1:9:479:ASN:HB3	1:9:643:GLY:HA3	1.95	0.47
10:N:43:TYR:O	10:N:47:LEU:HD22	2.15	0.47
10:N:381:PHE:CG	10:N:387:GLN:HB2	2.50	0.47
10:N:879:CYS:HB2	10:N:906:ASP:HB2	1.97	0.47
10:N:940:ARG:HH22	10:N:963:LYS:HE2	1.78	0.47
13:A:918:HIS:CD2	13:A:947:ARG:HD2	2.49	0.47
13:F:727:PRO:HB2	13:F:729:LEU:HG	1.96	0.47
10:n:257:TYR:O	10:n:261:MET:HG3	2.14	0.47
10:n:882:LEU:HD12	10:n:910:ILE:HD11	1.96	0.47
11:l:103:LYS:O	11:l:108:GLU:HG2	2.14	0.47
13:a:233:PHE:CZ	13:a:369:ILE:HG12	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:a:690:LYS:HG3	13:a:691:HIS:ND1	2.29	0.47
13:a:869:VAL:HG11	13:a:874:MET:SD	2.55	0.47
14:b:385:PRO:HG2	14:b:421:ILE:HG13	1.96	0.47
13:f:237:GLN:HB2	13:f:240:PHE:O	2.15	0.47
13:f:1088:ASN:HA	13:f:1116:LEU:HA	1.96	0.47
1:19:83:SER:HB2	1:19:113:GLY:H	1.79	0.47
1:15:350:ALA:HB2	1:15:404:ILE:CG2	2.44	0.47
1:15:472:PHE:CZ	1:15:473:MET:HE2	2.49	0.47
1:16:514:THR:HA	1:16:533:THR:HA	1.96	0.47
1:1:482:ASN:ND2	1:1:484:ASP:HB3	2.28	0.47
4:E:331:GLN:HB3	4:E:495:PHE:CZ	2.50	0.47
4:E:577:ALA:HB1	4:E:583:PHE:HD1	1.79	0.47
2:H:35:TRP:HZ3	2:H:73:GLN:HG3	1.79	0.47
4:I:117:ILE:HD13	4:I:343:TRP:HB2	1.97	0.47
5:J:363:SER:HB3	5:J:384:MET:HE1	1.96	0.47
8:Q:255:ILE:HG13	8:Q:256:ARG:N	2.30	0.47
1:Z:561:LEU:HD21	1:Z:567:LEU:HD12	1.95	0.47
2:c:133:ARG:NH2	3:d:54:MET:HG2	2.28	0.47
4:e:711:LEU:HD22	4:e:746:LEU:HB2	1.96	0.47
1:3:521:ALA:HA	1:3:524:LEU:HD12	1.96	0.47
1:4:351:PHE:CZ	1:4:669:ASN:HB2	2.49	0.47
10:N:569:SER:HB2	10:N:572:HIS:HE1	1.80	0.47
14:B:397:THR:HG23	14:B:399:GLU:H	1.80	0.47
13:F:1020:LEU:HA	13:F:1023:MET:HE2	1.95	0.47
14:G:403:LEU:HD22	14:G:413:ILE:HG12	1.96	0.47
8:p:684:ASN:HD22	8:p:711:PHE:HE2	1.63	0.47
8:p:762:ARG:HG2	8:p:762:ARG:O	2.14	0.47
1:11:411:PRO:HG2	1:11:488:PHE:CD2	2.49	0.47
1:16:94:SER:HB3	1:16:96:PHE:CE1	2.49	0.47
1:18:20:MET:HB3	1:18:23:MET:HB3	1.97	0.47
1:18:604:ASP:O	1:18:618:PRO:HG2	2.14	0.47
1:1:79:MET:HE1	1:1:113:GLY:HA3	1.96	0.47
1:1:132:SER:HA	1:3:43:ARG:HH22	1.80	0.47
1:1:401:LEU:HD11	1:1:467:GLY:HA3	1.96	0.47
2:C:119:ARG:HE	2:C:123:VAL:HG21	1.80	0.47
4:E:188:CYS:HB2	4:E:230:SER:O	2.14	0.47
4:E:563:LEU:HD22	4:E:588:TYR:CE2	2.50	0.47
4:E:770:PRO:HA	4:E:799:ASN:HD22	1.79	0.47
2:H:78:VAL:HG22	2:H:89:ILE:HD12	1.97	0.47
4:I:238:LEU:HD23	4:I:238:LEU:H	1.79	0.47
5:J:46:CYS:SG	5:J:70:PHE:HB2	2.55	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:396:ILE:HD12	5:J:405:ASP:O	2.14	0.47
7:O:62:PHE:HA	7:O:95:PRO:HG3	1.97	0.47
2:c:144:LYS:HD2	3:d:116:ILE:HG12	1.97	0.47
4:e:108:ASP:HB3	4:e:440:ARG:HH12	1.78	0.47
4:e:843:GLU:HB3	4:e:870:LYS:HD2	1.96	0.47
2:h:45:LEU:HB3	2:h:91:ILE:HG13	1.96	0.47
4:i:465:LYS:HE3	4:i:520:LEU:N	2.30	0.47
4:i:800:LYS:HD3	4:i:800:LYS:HA	1.75	0.47
6:k:49:ASN:C	6:k:49:ASN:HD22	2.23	0.47
8:q:207:VAL:HG21	8:q:297:LEU:HD13	1.96	0.47
9:r:59:THR:HG22	9:r:65:LEU:HA	1.96	0.47
1:z:569:ASP:HA	1:z:572:ILE:HB	1.97	0.47
1:z:618:PRO:HG3	1:z:655:TYR:CZ	2.49	0.47
1:2:180:GLN:O	1:2:181:MET:HE2	2.15	0.47
1:4:213:TRP:HE3	1:4:224:VAL:HG11	1.79	0.47
1:5:459:LEU:HD11	1:5:561:LEU:HD21	1.96	0.47
1:5:615:LEU:HD12	1:5:644:LEU:HB3	1.97	0.47
1:6:307:LEU:HD13	1:6:320:VAL:HG11	1.95	0.47
1:6:355:GLN:HG2	1:6:677:TRP:H	1.79	0.47
1:7:550:VAL:HG21	1:7:579:PHE:HB2	1.96	0.47
1:9:83:SER:HB2	1:9:113:GLY:H	1.79	0.47
1:12:5:ASN:HB3	1:12:23:MET:HE3	1.97	0.47
1:12:341:GLN:HG2	1:12:342:SER:H	1.80	0.47
8:P:58:LEU:HB3	8:P:63:VAL:HB	1.95	0.47
8:P:762:ARG:HG2	8:P:762:ARG:O	2.13	0.47
11:L:391:ARG:HH12	12:M:347:ASN:CB	2.28	0.47
13:A:266:TRP:HD1	13:A:272:PHE:HB2	1.79	0.47
13:A:1078:SER:HB3	13:A:1105:LEU:HD23	1.96	0.47
14:B:385:PRO:HG2	14:B:421:ILE:HG13	1.97	0.47
13:F:440:VAL:HG23	13:F:464:LEU:HD13	1.97	0.47
13:F:557:ALA:HA	13:F:560:TYR:HD2	1.79	0.47
13:F:1087:LEU:HG	13:F:1116:LEU:HD21	1.97	0.47
10:n:66:LEU:HD22	10:n:100:ALA:HB2	1.95	0.47
10:n:332:LYS:HB3	10:n:353:HIS:CD2	2.49	0.47
10:n:664:LEU:HG	10:n:666:LEU:HG	1.96	0.47
8:p:45:LEU:HB2	8:p:52:MET:HB2	1.96	0.47
12:m:73:MET:HE3	12:m:92:PHE:CG	2.50	0.47
12:m:229:VAL:O	12:m:233:MET:HG2	2.15	0.47
14:b:482:TRP:CE3	14:b:494:LEU:HG	2.50	0.47
13:f:251:PRO:HD3	13:f:373:ARG:HD3	1.97	0.47
13:f:440:VAL:HG23	13:f:464:LEU:HD13	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:689:LEU:HD23	13:f:739:VAL:HG12	1.96	0.47
14:g:403:LEU:HD22	14:g:413:ILE:HG12	1.97	0.47
14:g:428:PRO:HG2	14:g:452:ARG:NH2	2.30	0.47
1:11:43:ARG:HD2	1:13:132:SER:HB3	1.97	0.47
1:11:287:MET:HE2	1:11:287:MET:HA	1.95	0.47
1:11:563:THR:HG23	1:11:564:GLU:HG3	1.97	0.47
1:19:444:LEU:O	1:19:448:VAL:HG23	2.14	0.47
1:19:501:LEU:HD23	1:19:631:LEU:HD23	1.97	0.47
1:16:85:THR:OG1	1:16:88:GLU:HB3	2.14	0.47
1:16:101:GLU:HB2	1:17:679:LYS:HG2	1.96	0.47
1:16:131:PRO:HG2	1:16:137:LYS:NZ	2.29	0.47
1:16:215:GLN:HB2	1:16:218:SER:HB3	1.95	0.47
1:14:63:THR:O	1:14:63:THR:HG22	2.14	0.47
1:13:174:GLU:HA	1:13:177:ASN:HB2	1.97	0.47
2:C:129:PHE:CE2	3:D:69:LEU:HD21	2.49	0.47
4:E:20:LYS:O	4:E:24:LYS:HG2	2.15	0.47
4:I:904:GLU:HG2	9:R:66:GLN:HA	1.96	0.47
5:J:108:GLY:H	5:J:112:THR:HG23	1.79	0.47
4:e:479:GLU:HG3	4:e:531:CYS:HB2	1.96	0.47
4:i:470:HIS:CE1	4:i:472:SER:HB3	2.50	0.47
5:j:85:PRO:HG3	5:j:420:TYR:HB2	1.97	0.47
6:k:87:VAL:O	6:k:91:GLU:HG2	2.15	0.47
1:z:625:ILE:H	1:z:630:CYS:HB2	1.80	0.47
1:2:581:LEU:HD12	1:2:597:PHE:C	2.40	0.47
1:6:141:MET:HE2	1:6:141:MET:HA	1.97	0.47
1:7:316:PHE:O	1:7:320:VAL:HG13	2.15	0.47
1:7:397:ARG:HB2	1:7:400:SER:HB2	1.97	0.47
1:9:24:GLU:CD	1:9:76:LEU:HB3	2.40	0.47
8:P:692:LEU:HD12	8:P:695:LEU:HD21	1.96	0.47
8:P:723:PRO:HG2	8:P:767:LEU:HD11	1.97	0.47
13:F:943:CYS:SG	13:F:945:LEU:HG	2.55	0.47
14:G:428:PRO:HG2	14:G:452:ARG:NH2	2.30	0.47
10:n:509:ILE:HG12	10:n:535:ARG:NH1	2.30	0.47
10:n:989:TRP:HA	10:n:993:PHE:HB2	1.97	0.47
11:l:210:ILE:HD11	11:l:299:MET:H	1.80	0.47
12:m:318:ARG:HB3	12:m:363:MET:O	2.14	0.47
13:a:324:ASP:HA	13:a:371:THR:HB	1.97	0.47
14:g:344:VAL:HG11	14:g:365:LEU:HD23	1.96	0.47
14:g:518:PHE:CE2	14:g:539:MET:HE1	2.50	0.47
1:11:353:TYR:CE2	1:11:672:PRO:HB3	2.50	0.47
1:19:116:ILE:HD12	1:19:267:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:15:534:ILE:O	1:15:538:LEU:HG	2.14	0.47
1:16:119:GLU:HB2	1:16:129:ASP:O	2.15	0.47
1:14:234:LEU:HD21	1:14:245:PHE:HZ	1.79	0.47
1:13:152:LEU:HB2	1:13:178:LEU:HD13	1.97	0.47
1:1:311:LEU:HD22	13:A:794:LYS:HA	1.96	0.47
2:C:117:LEU:C	2:C:119:ARG:N	2.73	0.47
2:C:144:LYS:HD2	3:D:116:ILE:HG12	1.97	0.47
4:E:336:CYS:HA	4:E:342:CYS:HB2	1.95	0.47
4:E:355:LYS:NZ	4:E:376:SER:HB3	2.30	0.47
4:E:685:GLN:HB3	4:E:710:ILE:HG23	1.96	0.47
2:H:45:LEU:HB3	2:H:91:ILE:HG13	1.96	0.47
2:H:99:THR:HG21	13:F:704:ASP:CG	2.40	0.47
4:e:577:ALA:HB1	4:e:583:PHE:HD1	1.79	0.47
5:j:154:LEU:HD11	5:j:163:ALA:HB1	1.97	0.47
5:j:260:LYS:HZ2	13:a:1054:GLN:HE21	1.61	0.47
1:2:197:LEU:HD12	1:2:265:LEU:HD11	1.96	0.47
1:5:268:VAL:HG22	1:5:280:PRO:HB3	1.96	0.47
1:6:215:GLN:HB2	1:6:218:SER:HB3	1.96	0.47
1:6:355:GLN:HB3	1:6:677:TRP:HB3	1.96	0.47
1:7:29:ILE:HD12	1:7:73:THR:HG22	1.96	0.47
1:9:157:PRO:HD3	1:9:387:GLY:HA2	1.96	0.47
8:P:314:ASP:HB3	8:P:317:LYS:HB2	1.97	0.47
12:M:359:ARG:HD2	12:M:359:ARG:HA	1.70	0.47
13:A:233:PHE:CZ	13:A:369:ILE:HG12	2.50	0.47
13:F:689:LEU:HG	13:F:743:LEU:HD11	1.96	0.47
13:F:1131:ARG:O	13:F:1135:GLU:HG2	2.15	0.47
10:n:197:ARG:HG2	10:n:221:LEU:O	2.15	0.47
10:n:339:TRP:CD1	10:n:431:MET:HE1	2.50	0.47
10:n:650:LEU:HD21	10:n:664:LEU:HD21	1.95	0.47
8:p:531:TRP:CH2	8:p:587:ASP:HB2	2.50	0.47
11:l:77:ARG:HH21	11:l:90:PHE:HB3	1.80	0.47
11:l:266:PHE:CE1	11:l:370:ASN:HB2	2.50	0.47
13:a:926:LEU:HB3	13:a:953:CYS:HB2	1.97	0.47
13:f:602:LEU:HD23	13:f:607:ILE:HD13	1.96	0.47
1:15:82:PRO:HB3	1:15:186:GLU:HB3	1.97	0.47
1:15:143:GLY:HA2	1:15:681:THR:OG1	2.15	0.47
1:16:118:LEU:H	1:16:131:PRO:HG3	1.80	0.47
1:13:631:LEU:C	1:13:633:GLU:H	2.22	0.47
1:1:61:GLU:HG3	1:3:130:MET:HB2	1.97	0.47
2:C:117:LEU:C	2:C:119:ARG:H	2.23	0.47
4:E:349:LEU:O	4:E:353:ILE:HG13	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:I:567:MET:CE	4:I:589:CYS:HB3	2.46	0.47
5:J:186:ASN:HD22	5:J:218:PHE:HE2	1.63	0.47
1:Z:138:LYS:HG2	1:Z:285:THR:HB	1.96	0.47
1:Z:461:SER:HA	1:Z:469:MET:HE2	1.95	0.47
2:c:117:LEU:C	2:c:119:ARG:H	2.22	0.47
4:i:238:LEU:HD23	4:i:238:LEU:H	1.79	0.47
1:4:344:TRP:HA	1:4:347:ASP:HB2	1.96	0.47
1:4:575:ILE:HG22	1:4:605:MET:HE1	1.96	0.47
1:5:350:ALA:HB2	1:5:404:ILE:CG2	2.45	0.47
1:5:577:GLN:HA	1:5:602:PHE:CZ	2.50	0.47
10:N:257:TYR:O	10:N:261:MET:HG3	2.14	0.47
11:L:12:CYS:SG	11:L:138:SER:HB2	2.55	0.47
13:F:285:GLU:O	13:F:541:GLU:HG3	2.15	0.47
14:G:259:GLU:HG3	14:G:261:LEU:H	1.80	0.47
14:G:272:LEU:HD12	14:G:275:LEU:HD12	1.97	0.47
14:G:344:VAL:HG11	14:G:365:LEU:HD23	1.96	0.47
10:n:436:PHE:O	10:n:492:THR:HG22	2.14	0.47
11:l:286:VAL:N	11:l:287:PRO:HD2	2.30	0.47
13:f:943:CYS:SG	13:f:945:LEU:HG	2.55	0.47
13:f:1131:ARG:O	13:f:1135:GLU:HG2	2.15	0.47
1:16:131:PRO:HG2	1:16:137:LYS:HZ1	1.80	0.47
1:14:305:VAL:O	1:14:331:VAL:HA	2.15	0.47
1:13:348:GLU:O	1:13:349:MET:HE2	2.15	0.47
1:13:532:LYS:HD3	1:13:536:GLN:NE2	2.30	0.47
1:13:550:VAL:HG11	1:13:579:PHE:CD1	2.50	0.47
1:18:97:CYS:SG	1:18:102:VAL:HG21	2.55	0.47
2:C:133:ARG:HH22	3:D:55:PHE:HA	1.80	0.46
4:E:5:ILE:CG2	4:E:6:SER:N	2.34	0.46
4:E:285:MET:HG2	4:E:288:ARG:HE	1.80	0.46
4:E:487:LYS:HA	4:E:545:ILE:HA	1.97	0.46
4:E:746:LEU:HD21	4:E:749:LEU:HD22	1.97	0.46
7:O:7:ASN:OD1	7:O:30:MET:HE1	2.15	0.46
4:e:137:LEU:HB3	4:e:147:HIS:CE1	2.51	0.46
8:q:203:ARG:HB3	8:q:283:ARG:NH1	2.21	0.46
1:z:474:CYS:SG	1:z:491:LEU:HB2	2.55	0.46
1:2:20:MET:HE3	1:2:21:VAL:O	2.14	0.46
1:5:9:LEU:HG	1:5:27:LEU:HD11	1.97	0.46
1:5:150:ILE:HB	1:5:357:PRO:HD3	1.97	0.46
1:5:534:ILE:O	1:5:538:LEU:HG	2.14	0.46
1:9:619:LYS:HB2	1:9:648:PHE:HB3	1.96	0.46
10:N:394:PHE:O	10:N:398:ARG:HB3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:436:PHE:O	10:N:492:THR:HG22	2.14	0.46
10:N:534:MET:HE1	10:N:570:VAL:HG11	1.96	0.46
10:N:608:LYS:HG3	10:N:634:HIS:HD2	1.80	0.46
10:N:650:LEU:HD21	10:N:664:LEU:HD11	1.97	0.46
10:N:920:MET:HB2	10:N:949:LEU:HG	1.97	0.46
11:L:117:LEU:HA	11:L:120:VAL:HG22	1.98	0.46
11:L:349:VAL:HB	11:L:351:THR:HG23	1.95	0.46
12:M:345:ILE:HG13	12:M:345:ILE:O	2.13	0.46
10:n:70:PHE:HA	10:n:80:PRO:HG2	1.97	0.46
10:n:932:ILE:HD13	10:n:955:GLU:HB2	1.97	0.46
11:l:12:CYS:SG	11:l:138:SER:HB2	2.55	0.46
12:m:139:LEU:HB2	12:m:171:PRO:HD3	1.96	0.46
12:m:322:SER:O	12:m:326:VAL:HG23	2.15	0.46
13:f:326:LEU:O	13:f:326:LEU:HD23	2.15	0.46
1:19:624:LYS:HB3	1:19:627:GLY:HA2	1.97	0.46
1:16:175:ILE:HG21	1:16:221:TYR:CZ	2.49	0.46
1:16:200:HIS:CE1	1:16:264:SER:HB2	2.50	0.46
1:13:118:LEU:HD22	1:13:183:VAL:HG22	1.97	0.46
1:17:314:GLN:HB3	1:17:651:ASP:OD2	2.15	0.46
1:1:78:ARG:HD3	1:1:78:ARG:HA	1.75	0.46
4:E:791:TYR:O	4:E:795:VAL:HG23	2.16	0.46
4:I:590:LEU:HB3	4:I:628:VAL:HG11	1.95	0.46
4:I:899:THR:HA	4:I:925:ALA:HB3	1.96	0.46
1:Z:199:LEU:HD11	1:Z:263:LEU:HD21	1.98	0.46
1:Z:581:LEU:HD13	1:Z:596:LEU:HB3	1.96	0.46
1:Z:621:PHE:CG	1:Z:652:PHE:HD1	2.33	0.46
4:e:234:MET:HB2	4:e:236:TRP:NE1	2.31	0.46
4:e:626:CYS:HB3	4:e:656:SER:OG	2.15	0.46
4:i:645:PHE:CE1	4:i:650:ILE:HB	2.50	0.46
5:j:108:GLY:H	5:j:112:THR:HG23	1.79	0.46
5:j:396:ILE:HD11	5:j:404:ILE:CG2	2.46	0.46
1:z:294:ILE:HG12	1:z:422:LEU:HD21	1.98	0.46
1:z:547:ASN:HD21	1:z:579:PHE:H	1.62	0.46
1:3:544:ARG:HA	1:3:547:ASN:HD22	1.80	0.46
1:6:355:GLN:HB3	1:6:677:TRP:CD1	2.49	0.46
1:6:465:MET:HE1	1:6:599:ARG:HD2	1.97	0.46
1:7:196:GLN:C	1:7:197:LEU:HD12	2.41	0.46
1:7:543:PHE:HE2	1:7:578:LEU:HD13	1.80	0.46
1:8:43:ARG:HD2	1:8:62:ASP:HB3	1.96	0.46
1:8:47:ARG:HG2	1:8:81:ALA:HB3	1.97	0.46
1:8:303:LEU:HG	1:8:671:VAL:HG23	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:586:ARG:HG3	10:N:615:ASP:HB3	1.97	0.46
11:L:384:GLN:O	11:L:388:MET:HG3	2.15	0.46
13:A:417:VAL:O	13:A:421:LEU:HG	2.15	0.46
13:F:1045:VAL:HG21	13:F:1069:LEU:HD22	1.97	0.46
10:n:177:ALA:HB1	8:p:8:MET:SD	2.55	0.46
10:n:381:PHE:CG	10:n:387:GLN:HB2	2.50	0.46
8:p:31:LYS:O	8:p:35:VAL:HG22	2.15	0.46
11:l:298:ASN:H	11:l:300:MET:HE3	1.80	0.46
13:a:992:CYS:SG	13:a:1023:MET:HE1	2.54	0.46
13:f:484:SER:O	13:f:488:GLN:HG3	2.16	0.46
13:f:566:GLU:HB3	13:f:568:TRP:CE2	2.50	0.46
13:f:826:HIS:CD2	13:f:828:LYS:H	2.32	0.46
13:f:890:LYS:HG2	13:f:918:HIS:ND1	2.30	0.46
1:15:397:ARG:HB2	1:15:400:SER:HB2	1.98	0.46
1:15:515:LEU:HD23	1:15:622:GLY:HA2	1.96	0.46
1:15:581:LEU:HD23	1:15:598:ALA:N	2.30	0.46
1:16:355:GLN:HB3	1:16:677:TRP:HB3	1.97	0.46
1:16:398:VAL:HB	1:16:591:GLN:HE22	1.80	0.46
1:14:115:GLU:HB3	1:14:186:GLU:HB2	1.98	0.46
1:14:226:GLY:N	1:14:229:LYS:HB2	2.27	0.46
1:14:297:PRO:HA	1:14:409:VAL:HB	1.98	0.46
1:13:513:VAL:HG11	1:13:624:LYS:H	1.79	0.46
1:17:295:PHE:CZ	1:17:404:ILE:HD11	2.50	0.46
1:17:316:PHE:O	1:17:320:VAL:HG13	2.15	0.46
1:17:667:ILE:HG22	1:17:668:ILE:H	1.80	0.46
1:18:204:GLU:O	1:18:208:LYS:HG2	2.14	0.46
4:E:137:LEU:HB3	4:E:147:HIS:CE1	2.51	0.46
4:I:184:PHE:CE1	4:I:203:ILE:HG23	2.50	0.46
4:I:461:PHE:O	4:I:467:HIS:HB3	2.16	0.46
4:I:645:PHE:CE1	4:I:650:ILE:HB	2.50	0.46
4:e:20:LYS:O	4:e:24:LYS:HG2	2.16	0.46
4:e:157:VAL:C	4:e:339:PRO:HD2	2.40	0.46
5:j:254:HIS:CE1	5:j:256:CYS:CB	2.98	0.46
1:z:47:ARG:O	1:z:79:MET:HB2	2.15	0.46
1:z:624:LYS:HA	1:z:629:CYS:HA	1.97	0.46
1:3:152:LEU:HB2	1:3:178:LEU:HD13	1.97	0.46
1:7:314:GLN:HB3	1:7:651:ASP:OD2	2.15	0.46
1:9:444:LEU:O	1:9:448:VAL:HG23	2.15	0.46
1:12:155:CYS:O	1:12:387:GLY:HA2	2.15	0.46
1:12:160:VAL:HG21	1:12:388:TYR:HB3	1.97	0.46
1:12:180:GLN:O	1:12:181:MET:HE2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:339:TRP:CD1	10:N:431:MET:HE1	2.51	0.46
10:N:882:LEU:HD12	10:N:910:ILE:HD11	1.97	0.46
10:N:988:CYS:HB3	10:N:991:ASN:HB2	1.96	0.46
8:P:728:CYS:C	8:P:729:GLN:HG3	2.40	0.46
11:L:20:PHE:O	11:L:24:ILE:HG12	2.16	0.46
11:L:322:SER:O	11:L:326:VAL:HG23	2.16	0.46
12:M:73:MET:HE3	12:M:92:PHE:CG	2.50	0.46
12:M:229:VAL:O	12:M:233:MET:HG2	2.15	0.46
13:F:890:LYS:HG2	13:F:918:HIS:ND1	2.30	0.46
10:n:336:GLU:OE1	10:n:353:HIS:HE1	1.98	0.46
10:n:586:ARG:HG3	10:n:615:ASP:HB3	1.97	0.46
10:n:665:ARG:HA	10:n:693:ASN:HB2	1.97	0.46
12:m:359:ARG:HD2	12:m:359:ARG:HA	1.70	0.46
13:a:492:VAL:HG11	13:a:568:TRP:CG	2.50	0.46
13:a:989:LYS:O	13:a:992:CYS:HB2	2.15	0.46
13:a:1124:GLN:HE21	14:b:283:ALA:HB1	1.81	0.46
13:f:421:LEU:HD21	13:f:459:GLN:HA	1.97	0.46
13:f:727:PRO:HB2	13:f:729:LEU:HG	1.97	0.46
1:15:130:MET:HB3	1:14:61:GLU:CG	2.42	0.46
1:15:150:ILE:HB	1:15:357:PRO:HD3	1.98	0.46
1:15:575:ILE:HG21	1:15:605:MET:HE1	1.97	0.46
1:16:122:ILE:HD12	1:16:147:TRP:HB2	1.97	0.46
1:16:421:PRO:HG2	1:16:679:LYS:HD2	1.97	0.46
1:14:455:ALA:HA	1:14:456:PRO:HD3	1.82	0.46
1:13:157:PRO:HA	1:13:160:VAL:HB	1.96	0.46
1:13:200:HIS:HE1	1:13:283:LYS:HE3	1.80	0.46
1:1:353:TYR:CE2	1:1:672:PRO:HB3	2.51	0.46
3:D:83:ARG:HH11	4:E:424:ASP:HB3	1.81	0.46
4:I:590:LEU:O	4:I:628:VAL:HB	2.14	0.46
4:e:746:LEU:HD21	4:e:749:LEU:HD22	1.97	0.46
4:e:764:CYS:O	4:e:768:CYS:CB	2.63	0.46
4:i:117:ILE:HD13	4:i:343:TRP:HB2	1.96	0.46
4:i:137:LEU:HD13	4:i:225:LEU:HD11	1.97	0.46
5:j:290:PHE:CD2	5:j:351:VAL:HB	2.50	0.46
1:z:189:THR:HG23	1:z:192:LEU:HD23	1.98	0.46
1:z:200:HIS:CE1	1:z:283:LYS:HE3	2.50	0.46
1:2:41:THR:HA	1:2:65:VAL:O	2.14	0.46
1:3:174:GLU:HA	1:3:177:ASN:HB2	1.97	0.46
1:4:46:PRO:HB3	1:4:61:GLU:HG2	1.97	0.46
1:4:305:VAL:O	1:4:331:VAL:HA	2.15	0.46
1:6:373:LEU:HD13	1:6:376:PHE:HE1	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:57:ILE:O	1:8:57:ILE:HG22	2.16	0.46
1:9:150:ILE:HG12	1:9:289:ARG:HB3	1.97	0.46
1:9:465:MET:HG2	1:9:466:THR:HG23	1.96	0.46
10:N:509:ILE:HG12	10:N:535:ARG:NH1	2.30	0.46
11:L:286:VAL:N	11:L:287:PRO:HD2	2.30	0.46
13:F:251:PRO:HD3	13:F:373:ARG:HD3	1.97	0.46
13:F:415:ILE:HG13	13:F:721:GLN:HB2	1.97	0.46
13:F:421:LEU:HD21	13:F:459:GLN:HA	1.98	0.46
13:F:566:GLU:HB3	13:F:568:TRP:CE2	2.51	0.46
10:n:296:CYS:HA	10:n:302:LEU:CD2	2.45	0.46
10:n:879:CYS:HB2	10:n:906:ASP:HB2	1.97	0.46
8:p:715:CYS:HB2	8:p:736:CYS:HB3	1.62	0.46
11:l:349:VAL:HB	11:l:351:THR:HG23	1.96	0.46
13:a:602:LEU:HD23	13:a:607:ILE:HD13	1.96	0.46
1:11:3:PHE:CD1	1:11:20:MET:HE1	2.50	0.46
1:19:485:GLN:HB3	1:19:489:ARG:HH12	1.80	0.46
1:15:652:PHE:HA	1:15:655:TYR:HB2	1.96	0.46
1:16:424:ARG:HD3	1:16:565:LEU:HD23	1.98	0.46
1:14:37:CYS:HA	1:14:97:CYS:HA	1.98	0.46
1:17:543:PHE:HE2	1:17:578:LEU:HD13	1.81	0.46
1:1:49:LEU:HD23	1:1:59:GLY:N	2.30	0.46
1:1:93:VAL:HB	1:1:107:ALA:HB3	1.97	0.46
4:E:330:LYS:HB2	4:E:581:SER:OG	2.15	0.46
4:E:585:VAL:O	4:E:588:TYR:HB3	2.15	0.46
4:I:200:ALA:HB1	4:I:214:ILE:HG13	1.98	0.46
4:I:854:LYS:HD3	13:F:840:GLU:HG3	1.97	0.46
4:I:885:ASN:N	13:F:813:LYS:HZ2	2.12	0.46
5:J:290:PHE:CD2	5:J:351:VAL:HB	2.50	0.46
4:e:331:GLN:HB3	4:e:495:PHE:CZ	2.50	0.46
4:e:647:GLU:HA	4:e:650:ILE:HG22	1.98	0.46
4:i:401:ALA:HB2	4:i:448:PHE:HE2	1.80	0.46
5:j:186:ASN:HD22	5:j:218:PHE:HE2	1.64	0.46
7:o:6:ILE:HG22	7:o:30:MET:HE2	1.97	0.46
7:o:102:VAL:O	7:o:106:ILE:HG12	2.16	0.46
1:2:47:ARG:HG3	1:2:81:ALA:HB3	1.98	0.46
1:6:42:ILE:HG23	1:6:61:GLU:HG3	1.97	0.46
1:6:514:THR:HA	1:6:533:THR:HA	1.97	0.46
1:7:623:PRO:HB2	1:7:625:ILE:HG13	1.97	0.46
1:8:24:GLU:HB2	1:8:78:ARG:HH21	1.78	0.46
1:9:478:THR:HA	1:9:644:LEU:HD21	1.96	0.46
14:B:350:LEU:HD13	14:B:395:ALA:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:B:482:TRP:CE3	14:B:494:LEU:HG	2.50	0.46
13:F:237:GLN:HB2	13:F:240:PHE:O	2.15	0.46
13:F:326:LEU:O	13:F:326:LEU:HD23	2.15	0.46
13:F:419:HIS:CE1	13:F:720:VAL:HG11	2.50	0.46
13:F:1088:ASN:HA	13:F:1116:LEU:HA	1.97	0.46
10:n:695:SER:HA	10:n:699:LEU:HD11	1.97	0.46
8:p:447:HIS:ND1	8:p:449:PRO:HD2	2.22	0.46
8:p:692:LEU:HD12	8:p:695:LEU:HD21	1.97	0.46
14:b:350:LEU:HD13	14:b:395:ALA:HA	1.97	0.46
13:f:213:PHE:CD1	13:f:260:ARG:HG2	2.51	0.46
13:f:285:GLU:O	13:f:541:GLU:HG3	2.15	0.46
13:f:736:PHE:O	13:f:740:LEU:HD23	2.15	0.46
14:g:259:GLU:HG3	14:g:261:LEU:H	1.80	0.46
1:11:473:MET:HA	1:11:491:LEU:O	2.16	0.46
1:19:50:ILE:HG22	1:19:52:ILE:HG12	1.98	0.46
1:19:619:LYS:HB2	1:19:648:PHE:HB3	1.95	0.46
1:15:186:GLU:HG2	1:15:241:ARG:HH11	1.79	0.46
1:15:282:TYR:CE2	1:15:284:ASP:HB2	2.51	0.46
1:13:49:LEU:O	1:13:77:VAL:HA	2.16	0.46
1:13:652:PHE:CE1	1:13:656:LEU:HD12	2.50	0.46
1:18:337:ASP:HB2	1:18:377:PRO:HG2	1.98	0.46
1:1:80:VAL:HG13	1:3:60:LYS:HA	1.97	0.46
2:C:23:LEU:HB3	2:C:24:PRO:HD3	1.98	0.46
4:E:406:TRP:CD1	4:E:475:VAL:HA	2.51	0.46
4:E:626:CYS:HB3	4:E:656:SER:OG	2.15	0.46
5:J:173:LYS:HE2	5:J:185:THR:HG21	1.97	0.46
5:J:391:ASP:HB3	5:J:394:HIS:H	1.81	0.46
2:c:114:GLU:C	2:c:118:GLN:HB3	2.41	0.46
4:e:227:ILE:HA	4:e:274:LEU:HB2	1.97	0.46
4:e:279:PRO:O	4:e:282:PHE:HB3	2.15	0.46
5:j:173:LYS:HE2	5:j:185:THR:HG21	1.97	0.46
8:q:220:MET:HB2	8:q:235:TYR:O	2.16	0.46
1:4:268:VAL:HG22	1:4:280:PRO:HA	1.98	0.46
1:6:473:MET:HE2	1:6:492:LEU:HD22	1.98	0.46
1:7:37:CYS:SG	1:7:104:THR:HB	2.55	0.46
1:7:431:PHE:HE1	1:7:560:LEU:HD11	1.79	0.46
10:N:750:CYS:HB2	10:N:989:TRP:CZ2	2.51	0.46
10:N:932:ILE:HD13	10:N:955:GLU:HB2	1.97	0.46
11:L:296:SER:HA	11:L:300:MET:HE1	1.98	0.46
13:A:324:ASP:HA	13:A:371:THR:HB	1.97	0.46
13:A:602:LEU:HD23	13:A:607:ILE:HD13	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:285:GLU:HG3	13:F:286:ILE:HG23	1.98	0.46
14:G:509:LYS:HD2	14:G:535:THR:HG21	1.97	0.46
10:n:608:LYS:HG3	10:n:634:HIS:HD2	1.81	0.46
10:n:951:LEU:HD12	10:n:977:ILE:HD13	1.98	0.46
13:a:860:LYS:HZ2	13:a:890:LYS:HD2	1.79	0.46
13:f:419:HIS:CE1	13:f:720:VAL:HG11	2.50	0.46
13:f:666:LEU:HD13	13:f:688:CYS:SG	2.56	0.46
13:f:841:LEU:HB2	13:f:846:TYR:CE1	2.51	0.46
1:16:373:LEU:HD13	1:16:376:PHE:HE1	1.80	0.46
1:16:424:ARG:HA	1:16:454:GLN:HB3	1.98	0.46
1:14:24:GLU:HA	1:14:77:VAL:O	2.15	0.46
1:18:189:THR:HG22	1:18:193:GLN:NE2	2.31	0.46
2:C:114:GLU:C	2:C:118:GLN:HB3	2.41	0.46
4:E:157:VAL:C	4:E:339:PRO:HD2	2.40	0.46
4:E:711:LEU:HD22	4:E:746:LEU:HB2	1.96	0.46
4:I:760:ILE:HG21	4:I:788:CYS:HA	1.98	0.46
4:I:816:GLY:O	4:I:820:LEU:HG	2.16	0.46
5:J:127:LYS:NZ	5:J:150:SER:HB3	2.31	0.46
2:c:112:HIS:C	2:c:117:LEU:HB3	2.41	0.46
4:e:117:ILE:HG12	4:e:343:TRP:CG	2.51	0.46
4:e:406:TRP:CD1	4:e:475:VAL:HA	2.50	0.46
4:e:577:ALA:HB3	4:e:603:THR:HA	1.96	0.46
4:e:797:ARG:HG3	4:e:823:SER:OG	2.16	0.46
4:i:919:LEU:HG	4:i:921:LEU:HD21	1.97	0.46
1:4:43:ARG:HB2	1:4:64:VAL:HG13	1.97	0.46
1:4:608:ILE:HG23	1:4:617:ILE:HG13	1.98	0.46
1:5:282:TYR:CE2	1:5:284:ASP:HB2	2.51	0.46
1:6:654:CYS:SG	1:6:663:CYS:HB2	2.56	0.46
1:6:676:LYS:O	1:6:679:LYS:HE3	2.16	0.46
1:8:11:LEU:HD21	1:8:95:TYR:CE2	2.51	0.46
1:9:517:GLU:HG3	1:9:624:LYS:HD2	1.97	0.46
8:P:531:TRP:CH2	8:P:587:ASP:HB2	2.50	0.46
12:M:203:ASP:H	12:M:299:MET:HE1	1.80	0.46
13:F:484:SER:O	13:F:488:GLN:HG3	2.16	0.46
14:G:453:CYS:HB3	14:G:463:LEU:HB3	1.97	0.46
10:n:611:PHE:HB2	10:n:637:LEU:HG	1.98	0.46
10:n:870:LEU:HB2	10:n:899:LEU:HD21	1.96	0.46
11:l:117:LEU:HA	11:l:120:VAL:HG22	1.97	0.46
11:l:156:ARG:HH11	11:l:195:ASN:HB2	1.79	0.46
11:l:327:ASP:HA	11:l:330:MET:HE2	1.96	0.46
13:f:987:ALA:HA	13:f:990:LEU:HD13	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:1087:LEU:HG	13:f:1116:LEU:HD21	1.98	0.46
1:19:460:PHE:HB3	1:19:557:ASN:HD21	1.80	0.46
1:19:671:VAL:HG12	1:19:672:PRO:O	2.16	0.46
1:15:197:LEU:HB3	1:15:265:LEU:HD11	1.97	0.46
1:14:40:PHE:HE1	1:14:69:MET:HB3	1.81	0.46
1:14:183:VAL:HG21	1:14:199:LEU:HD11	1.97	0.46
1:17:556:LEU:HD21	1:18:281:LEU:HA	1.97	0.46
4:E:586:ALA:O	4:E:590:LEU:HG	2.16	0.46
5:J:140:ILE:HD12	5:J:140:ILE:H	1.81	0.46
2:h:78:VAL:HG22	2:h:89:ILE:HD12	1.97	0.46
4:i:617:GLU:HA	4:i:620:ILE:HD12	1.96	0.46
5:j:363:SER:HB3	5:j:384:MET:HE1	1.97	0.46
5:j:373:LEU:HD21	12:m:388:MET:HE3	1.97	0.46
7:o:7:ASN:OD1	7:o:30:MET:HE1	2.15	0.46
1:z:134:LYS:HG3	1:z:135:GLN:HG2	1.97	0.46
1:z:296:MET:HE2	1:z:296:MET:HA	1.98	0.46
1:3:49:LEU:HG	1:3:58:ALA:HA	1.97	0.46
1:3:204:GLU:O	1:3:208:LYS:HG2	2.15	0.46
1:4:319:SER:HB2	1:4:649:ILE:HG23	1.97	0.46
1:5:397:ARG:HB2	1:5:400:SER:HB2	1.98	0.46
1:6:49:LEU:HD11	1:6:51:HIS:HE1	1.80	0.46
1:6:181:MET:HB3	1:6:245:PHE:HB2	1.98	0.46
1:9:180:GLN:HG3	1:9:246:TYR:CE1	2.49	0.46
1:12:606:LEU:O	1:12:608:ILE:HD12	2.15	0.46
10:N:57:VAL:HB	10:N:63:GLN:HE21	1.79	0.46
10:N:588:ASP:HB3	10:N:617:LEU:HD12	1.98	0.46
10:N:611:PHE:HB2	10:N:637:LEU:HG	1.97	0.46
10:N:664:LEU:HG	10:N:666:LEU:HG	1.97	0.46
8:P:513:LEU:HD23	8:P:582:TYR:CD2	2.51	0.46
13:F:477:ARG:HD2	13:F:483:LEU:HD23	1.98	0.46
13:F:1033:LEU:O	13:F:1062:LEU:HA	2.16	0.46
13:F:1078:SER:HB2	13:F:1108:ALA:HB2	1.98	0.46
14:G:538:SER:HB2	14:G:545:LEU:HD21	1.98	0.46
10:n:186:SER:HB2	10:n:191:LEU:HD21	1.98	0.46
10:n:273:HIS:C	10:n:274:MET:HE2	2.40	0.46
10:n:418:LEU:HD13	10:n:467:LEU:HD12	1.98	0.46
10:n:750:CYS:HB2	10:n:989:TRP:CZ2	2.51	0.46
8:p:14:HIS:CD2	8:p:35:VAL:HB	2.51	0.46
11:l:20:PHE:O	11:l:24:ILE:HG12	2.15	0.46
14:b:384:LEU:HD22	14:b:414:TRP:CD1	2.49	0.46
13:f:817:MET:HE3	13:f:817:MET:HB3	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:11:298:SER:OG	1:11:475:PHE:HB2	2.15	0.46
1:11:341:GLN:HG2	1:11:342:SER:N	2.30	0.46
1:19:188:PRO:HG2	1:19:191:ILE:HD12	1.97	0.46
1:15:346:GLN:N	1:15:665:SER:HB3	2.31	0.46
1:16:60:LYS:HB3	1:17:132:SER:HB3	1.98	0.46
1:16:141:MET:HA	1:16:141:MET:HE2	1.97	0.46
1:13:142:TRP:HB2	1:13:682:PRO:HD3	1.98	0.46
1:13:204:GLU:O	1:13:208:LYS:HG2	2.15	0.46
1:17:489:ARG:NH1	1:17:571:ASP:HA	2.30	0.46
1:18:516:PHE:HB3	1:18:519:ILE:CG2	2.45	0.46
1:1:141:MET:HE1	1:1:147:TRP:CZ2	2.50	0.46
4:E:764:CYS:O	4:E:768:CYS:CB	2.63	0.46
4:E:806:ASP:HA	4:E:835:CYS:HB2	1.98	0.46
4:I:116:ARG:HH22	4:I:350:LYS:NZ	2.14	0.46
4:I:617:GLU:HA	4:I:620:ILE:HD12	1.97	0.46
4:I:681:PHE:CE1	4:I:706:LEU:HB3	2.49	0.46
5:J:127:LYS:HZ1	5:J:150:SER:HB3	1.80	0.46
8:Q:237:VAL:H	8:Q:256:ARG:HG3	1.80	0.46
2:c:27:LEU:HD11	13:a:258:LEU:HD22	1.98	0.46
2:c:133:ARG:HH22	3:d:55:PHE:HA	1.80	0.46
2:c:141:LEU:HD11	3:d:112:LYS:HD2	1.97	0.46
4:e:330:LYS:HB2	4:e:581:SER:OG	2.16	0.46
4:e:791:TYR:O	4:e:795:VAL:HG23	2.16	0.46
4:i:200:ALA:HB1	4:i:214:ILE:HG13	1.98	0.46
4:i:791:TYR:O	4:i:795:VAL:HG23	2.16	0.46
5:j:10:MET:HG3	5:j:35:LEU:HD13	1.98	0.46
8:q:255:ILE:HG13	8:q:256:ARG:N	2.30	0.46
1:z:479:ASN:HB2	1:z:613:LYS:HE3	1.97	0.46
1:z:624:LYS:HG3	1:z:629:CYS:HA	1.97	0.46
1:5:262:SER:HA	1:5:286:VAL:O	2.15	0.46
1:6:565:LEU:HB2	1:6:567:LEU:HG	1.98	0.46
1:7:319:SER:HA	1:7:322:LYS:HE2	1.97	0.46
1:8:124:ARG:HH11	1:8:678:TRP:CD1	2.34	0.46
10:N:47:LEU:HD21	11:L:245:GLN:NE2	2.31	0.46
10:N:418:LEU:HD13	10:N:467:LEU:HD12	1.98	0.46
8:P:346:PHE:HB2	8:P:364:TRP:CZ2	2.50	0.46
11:L:266:PHE:CE1	11:L:370:ASN:HB2	2.50	0.46
12:M:320:ARG:O	12:M:321:MET:HE2	2.16	0.46
13:A:430:GLN:HE22	13:A:461:LEU:HD22	1.81	0.46
13:F:213:PHE:CD1	13:F:260:ARG:HG2	2.51	0.46
13:F:233:PHE:HZ	13:F:369:ILE:HG12	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:n:569:SER:HB2	10:n:572:HIS:HE1	1.80	0.46
12:m:11:GLN:HE22	15:m:501:GDP:N2	2.14	0.46
12:m:416:ASN:HA	12:m:419:VAL:HG22	1.96	0.46
13:f:338:MET:HB3	13:f:355:TYR:CE2	2.51	0.46
13:f:492:VAL:HG21	13:f:568:TRP:CD2	2.51	0.46
13:f:836:LEU:O	13:f:836:LEU:HD23	2.16	0.46
1:19:478:THR:HA	1:19:644:LEU:HD21	1.98	0.46
1:15:116:ILE:HG23	1:15:185:VAL:HG13	1.97	0.46
1:15:371:SER:HA	1:15:396:HIS:CE1	2.51	0.46
1:15:410:SER:HB3	1:15:426:LEU:HD21	1.97	0.46
1:16:378:MET:HE3	1:16:382:LEU:HG	1.97	0.46
1:16:676:LYS:O	1:16:679:LYS:HE3	2.15	0.46
1:14:61:GLU:HG2	1:14:62:ASP:N	2.29	0.46
1:14:603:PRO:HA	1:14:656:LEU:HG	1.97	0.46
1:1:3:PHE:CD1	1:1:20:MET:HE1	2.50	0.46
4:E:234:MET:HB2	4:E:236:TRP:NE1	2.31	0.46
4:I:159:LYS:HG2	4:I:297:ALA:HB2	1.97	0.46
4:I:837:SER:HA	4:I:865:SER:O	2.16	0.46
8:Q:245:THR:HB	10:N:472:LYS:HZ1	1.81	0.46
1:Z:79:MET:SD	1:Z:113:GLY:HA3	2.56	0.46
2:c:119:ARG:HA	2:c:123:VAL:CG2	2.45	0.46
4:e:310:HIS:CD2	4:e:316:ARG:HD3	2.47	0.46
1:z:57:ILE:HG23	1:z:63:THR:HB	1.97	0.46
1:z:203:GLU:HA	1:z:230:PRO:HB3	1.98	0.46
1:z:294:ILE:HB	1:z:353:TYR:CE1	2.51	0.46
1:z:371:SER:HA	1:z:396:HIS:CE1	2.50	0.46
1:2:174:GLU:O	1:2:178:LEU:HG	2.16	0.46
1:3:43:ARG:HA	1:3:64:VAL:HG22	1.98	0.46
1:3:523:GLN:NE2	1:3:652:PHE:HB3	2.30	0.46
1:5:365:LEU:HD23	1:5:389:LEU:HB3	1.98	0.46
1:6:200:HIS:CE1	1:6:264:SER:HB2	2.51	0.46
1:12:201:THR:HB	1:12:263:LEU:HD23	1.98	0.46
1:12:651:ASP:HB3	1:12:654:CYS:HB3	1.98	0.46
10:N:116:VAL:HA	10:N:158:LEU:O	2.16	0.46
12:M:260:PHE:HB2	12:M:263:LEU:HD13	1.98	0.46
11:l:45:GLU:O	11:l:49:VAL:HG23	2.16	0.46
12:m:19:LYS:HE3	12:m:19:LYS:HB3	1.83	0.46
12:m:161:ASP:CG	12:m:162:ARG:HE	2.24	0.46
13:a:417:VAL:O	13:a:421:LEU:HG	2.16	0.46
13:a:448:LYS:HE2	13:a:448:LYS:HB3	1.79	0.46
14:b:443:TRP:HD1	14:b:451:LEU:HD11	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:b:509:LYS:HE2	14:b:511:ASN:HB2	1.97	0.46
14:g:361:GLY:HA2	14:g:365:LEU:HD12	1.98	0.46
1:19:247:VAL:HG12	1:19:248:GLU:N	2.31	0.46
1:15:345:LEU:HB3	1:15:665:SER:CB	2.46	0.46
1:16:48:ILE:HD13	1:16:79:MET:HG2	1.97	0.46
1:16:210:ARG:HB2	1:16:248:GLU:HG2	1.97	0.46
1:14:96:PHE:HD1	1:14:103:PRO:HA	1.81	0.46
1:13:548:THR:O	1:13:552:LYS:HG3	2.16	0.46
1:17:397:ARG:HB2	1:17:400:SER:HB2	1.97	0.46
1:18:555:SER:O	1:18:558:ARG:HG2	2.16	0.46
1:1:211:VAL:HB	1:1:225:VAL:HB	1.96	0.45
1:1:473:MET:HA	1:1:491:LEU:O	2.16	0.45
2:C:119:ARG:HA	2:C:123:VAL:CG2	2.46	0.45
4:E:279:PRO:O	4:E:282:PHE:HB3	2.15	0.45
1:Z:177:ASN:HB3	1:Z:359:LYS:HZ3	1.81	0.45
1:Z:502:PHE:HE1	1:Z:631:LEU:HD21	1.80	0.45
2:c:27:LEU:HD23	2:c:27:LEU:H	1.81	0.45
2:c:34:TRP:HZ2	14:b:373:LEU:HD22	1.81	0.45
5:j:140:ILE:HD12	5:j:140:ILE:H	1.81	0.45
7:o:22:SER:OG	7:o:36:THR:HB	2.16	0.45
1:z:621:PHE:HD2	1:z:652:PHE:HD1	1.64	0.45
1:3:49:LEU:O	1:3:77:VAL:HA	2.15	0.45
1:3:550:VAL:HG11	1:3:579:PHE:CD1	2.51	0.45
1:5:48:ILE:HD13	1:5:111:LEU:HB2	1.98	0.45
1:5:624:LYS:HD3	1:5:629:CYS:N	2.31	0.45
1:6:430:SER:HA	1:6:460:PHE:CD1	2.52	0.45
1:9:213:TRP:HE3	1:9:224:VAL:HG21	1.81	0.45
1:12:197:LEU:HD12	1:12:265:LEU:HD11	1.98	0.45
10:N:152:SER:O	10:N:154:PRO:HD3	2.15	0.45
10:N:665:ARG:HA	10:N:693:ASN:HB2	1.97	0.45
8:P:31:LYS:O	8:P:35:VAL:HG22	2.16	0.45
11:L:149:THR:HA	11:L:152:ILE:HG22	1.98	0.45
12:M:68:LEU:HD21	12:M:147:MET:HE1	1.98	0.45
12:M:73:MET:HG2	12:M:92:PHE:CD1	2.51	0.45
12:M:161:ASP:CG	12:M:162:ARG:HE	2.24	0.45
13:A:676:ILE:HD12	13:A:681:ASP:HB3	1.97	0.45
13:A:1050:GLU:HG2	13:A:1053:LYS:HE3	1.98	0.45
13:F:736:PHE:O	13:F:740:LEU:HD23	2.16	0.45
14:G:285:GLN:HB3	14:G:578:HIS:CD2	2.51	0.45
10:n:233:LEU:HB3	10:n:237:ALA:HB3	1.98	0.45
10:n:588:ASP:HB3	10:n:617:LEU:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:725:THR:HA	8:p:731:ASN:HA	1.98	0.45
1:11:174:GLU:O	1:11:178:LEU:HG	2.17	0.45
1:19:240:ARG:NH1	1:19:242:LYS:H	2.14	0.45
1:19:629:CYS:HB3	1:19:632:GLU:HB2	1.98	0.45
1:15:43:ARG:HB2	1:15:62:ASP:HA	1.98	0.45
1:15:654:CYS:HA	1:15:657:ALA:HB2	1.97	0.45
1:16:132:SER:HB2	1:16:137:LYS:HG2	1.98	0.45
1:17:196:GLN:C	1:17:197:LEU:HD12	2.41	0.45
1:1:605:MET:SD	1:1:635:VAL:HG21	2.56	0.45
2:C:34:TRP:HZ2	14:B:373:LEU:HD22	1.81	0.45
4:I:831:LEU:HD12	4:I:832:GLU:H	1.81	0.45
5:J:373:LEU:HD21	12:M:388:MET:HE3	1.98	0.45
7:O:22:SER:OG	7:O:36:THR:HB	2.17	0.45
3:d:83:ARG:HH11	4:e:424:ASP:HB3	1.81	0.45
4:e:42:SER:O	4:e:46:VAL:HG23	2.17	0.45
4:e:108:ASP:HA	4:e:111:LYS:HD2	1.98	0.45
4:e:403:GLU:HB2	4:e:470:HIS:CE1	2.51	0.45
4:e:487:LYS:HA	4:e:545:ILE:HA	1.97	0.45
4:i:462:TYR:HB3	4:i:478:ILE:HD13	1.98	0.45
1:z:314:GLN:HB2	1:z:317:VAL:HG23	1.98	0.45
1:2:606:LEU:O	1:2:608:ILE:HD12	2.16	0.45
1:3:460:PHE:CE2	1:3:463:TRP:HD1	2.35	0.45
1:5:19:CYS:SG	1:5:25:ILE:HD11	2.56	0.45
1:5:174:GLU:O	1:5:178:LEU:HG	2.16	0.45
1:5:211:VAL:HA	1:5:247:VAL:HG22	1.98	0.45
1:6:424:ARG:HA	1:6:454:GLN:HB3	1.98	0.45
1:12:174:GLU:O	1:12:178:LEU:HG	2.16	0.45
10:N:159:PHE:HB2	10:N:206:LEU:HD13	1.98	0.45
10:N:919:GLN:HB3	10:N:948:PHE:HD2	1.81	0.45
12:M:55:THR:O	12:M:58:LYS:HG2	2.16	0.45
13:A:779:THR:HG23	13:A:806:ASN:HB3	1.98	0.45
10:n:39:PHE:CZ	11:l:331:LEU:HD22	2.48	0.45
10:n:233:LEU:HD22	10:n:237:ALA:HB1	1.99	0.45
10:n:605:LYS:HD3	10:n:605:LYS:HA	1.69	0.45
10:n:650:LEU:HD21	10:n:664:LEU:HD11	1.97	0.45
13:a:779:THR:HG23	13:a:806:ASN:HB3	1.98	0.45
13:a:1012:LEU:HD12	13:a:1016:CYS:SG	2.57	0.45
14:b:397:THR:HG23	14:b:399:GLU:H	1.80	0.45
13:f:625:GLN:NE2	13:f:626:LYS:HG3	2.32	0.45
14:g:453:CYS:HB3	14:g:463:LEU:HB3	1.97	0.45
1:11:25:ILE:O	1:11:76:LEU:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:15:60:LYS:HZ1	1:14:132:SER:HA	1.80	0.45
1:14:52:ILE:HG22	1:14:53:SER:N	2.31	0.45
1:17:296:MET:N	1:17:409:VAL:HG21	2.31	0.45
1:18:20:MET:HB3	1:18:23:MET:HE3	1.98	0.45
1:18:40:PHE:CE1	1:18:67:ARG:HB3	2.51	0.45
1:1:3:PHE:CE1	1:1:23:MET:HE3	2.51	0.45
1:1:341:GLN:HG2	1:1:342:SER:N	2.31	0.45
4:E:310:HIS:CD2	4:E:316:ARG:HD3	2.48	0.45
2:H:47:LEU:HD23	2:H:48:TYR:N	2.32	0.45
8:Q:229:ARG:HD3	8:Q:269:MET:HB2	1.98	0.45
4:e:806:ASP:HA	4:e:835:CYS:HB2	1.98	0.45
4:e:843:GLU:HA	4:e:846:CYS:HB2	1.99	0.45
4:i:837:SER:HA	4:i:865:SER:O	2.16	0.45
6:k:6:LEU:HB3	6:k:45:VAL:HG21	1.99	0.45
1:2:577:GLN:NE2	1:2:604:ASP:HA	2.31	0.45
1:2:599:ARG:HG3	1:2:600:PRO:HD2	1.97	0.45
1:3:115:GLU:O	1:3:185:VAL:HA	2.16	0.45
1:3:548:THR:O	1:3:552:LYS:HG3	2.16	0.45
1:4:297:PRO:HA	1:4:409:VAL:HB	1.98	0.45
1:5:47:ARG:HH22	1:5:89:ASP:H	1.64	0.45
1:5:371:SER:HA	1:5:396:HIS:CE1	2.51	0.45
1:5:654:CYS:HA	1:5:657:ALA:HB2	1.97	0.45
1:6:75:ALA:C	1:6:76:LEU:HD12	2.42	0.45
1:6:260:LEU:HD13	1:6:287:MET:HE2	1.98	0.45
1:7:296:MET:N	1:7:409:VAL:HG21	2.32	0.45
1:9:225:VAL:HG13	1:9:229:LYS:O	2.15	0.45
1:9:296:MET:HE3	1:9:671:VAL:O	2.17	0.45
1:9:411:PRO:HG2	1:9:488:PHE:CG	2.51	0.45
10:N:227:ARG:HH21	10:N:229:LYS:HE2	1.81	0.45
10:N:580:MET:HB2	10:N:606:LEU:HD11	1.99	0.45
8:P:325:HIS:HB2	8:P:344:MET:HE2	1.99	0.45
13:A:926:LEU:HB3	13:A:953:CYS:HB2	1.98	0.45
14:G:361:GLY:HA2	14:G:365:LEU:HD12	1.98	0.45
10:n:43:TYR:O	10:n:47:LEU:HD22	2.16	0.45
10:n:57:VAL:HB	10:n:63:GLN:HE21	1.82	0.45
10:n:178:LEU:HD11	10:n:197:ARG:HD2	1.98	0.45
10:n:822:CYS:O	10:n:826:GLN:HG3	2.16	0.45
11:l:149:THR:HA	11:l:152:ILE:HG22	1.98	0.45
12:m:8:GLN:CD	12:m:17:GLY:HA3	2.42	0.45
12:m:73:MET:HG2	12:m:92:PHE:CD1	2.51	0.45
13:a:449:LYS:HE2	13:a:449:LYS:HB3	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:a:950:LEU:HB3	13:a:953:CYS:SG	2.56	0.45
13:f:691:HIS:O	13:f:693:GLN:HG2	2.16	0.45
13:f:1045:VAL:HG21	13:f:1069:LEU:HD22	1.97	0.45
13:f:1078:SER:HB2	13:f:1108:ALA:HB2	1.98	0.45
1:11:28:ASP:HA	1:11:74:VAL:HG22	1.98	0.45
1:11:57:ILE:HG23	1:11:63:THR:O	2.16	0.45
1:11:472:PHE:O	1:11:492:LEU:HA	2.17	0.45
1:19:302:PRO:HA	1:19:670:ARG:HG2	1.97	0.45
1:19:472:PHE:HA	1:19:606:LEU:HG	1.98	0.45
1:15:174:GLU:O	1:15:178:LEU:HG	2.16	0.45
1:15:211:VAL:HA	1:15:247:VAL:HG22	1.99	0.45
1:15:577:GLN:HA	1:15:602:PHE:CZ	2.51	0.45
1:16:654:CYS:SG	1:16:663:CYS:HB2	2.57	0.45
1:14:319:SER:HB2	1:14:649:ILE:HG23	1.97	0.45
1:17:550:VAL:HG21	1:17:579:PHE:HB2	1.96	0.45
1:18:78:ARG:HG3	1:18:78:ARG:O	2.17	0.45
2:C:129:PHE:HA	2:C:132:ILE:HD12	1.98	0.45
4:I:146:PRO:HD3	4:I:270:GLU:HG2	1.99	0.45
1:Z:283:LYS:HD3	1:9:431:PHE:CZ	2.52	0.45
1:Z:677:TRP:O	1:Z:680:MET:HB3	2.16	0.45
2:c:23:LEU:HB3	2:c:24:PRO:HD3	1.98	0.45
2:c:117:LEU:C	2:c:119:ARG:N	2.73	0.45
4:e:88:GLY:HA2	14:b:354:ASN:HD22	1.80	0.45
8:q:230:LYS:HA	8:q:270:PHE:HE1	1.82	0.45
1:z:349:MET:HB3	1:z:364:ILE:HD11	1.99	0.45
1:5:652:PHE:HA	1:5:655:TYR:HB2	1.97	0.45
1:8:221:TYR:HE2	1:8:246:TYR:HE2	1.65	0.45
1:9:296:MET:HE1	1:9:673:PHE:CG	2.51	0.45
1:12:84:PRO:HD2	1:12:88:GLU:HG2	1.97	0.45
1:12:463:TRP:CD1	1:12:463:TRP:H	2.33	0.45
13:A:950:LEU:HB3	13:A:953:CYS:SG	2.57	0.45
13:F:426:GLN:HG2	13:F:597:ARG:HG2	1.98	0.45
13:F:492:VAL:HG21	13:F:568:TRP:CD2	2.51	0.45
14:G:320:ASN:HB2	14:G:332:GLU:OE1	2.17	0.45
10:n:935:LEU:O	10:n:939:LEU:HG	2.17	0.45
8:p:513:LEU:HD23	8:p:582:TYR:CD2	2.51	0.45
13:a:348:GLN:HG3	13:a:349:PRO:HD2	1.99	0.45
13:f:315:GLN:N	13:f:316:PRO:HD2	2.32	0.45
13:f:808:GLY:O	13:f:810:THR:HG23	2.16	0.45
1:11:522:GLU:OE2	1:11:523:GLN:HG2	2.16	0.45
1:15:624:LYS:HD3	1:15:629:CYS:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:16:565:LEU:HB2	1:16:567:LEU:HG	1.98	0.45
1:14:89:ASP:HB2	1:14:111:LEU:C	2.37	0.45
1:14:268:VAL:HG22	1:14:280:PRO:HA	1.97	0.45
1:14:348:GLU:O	1:14:349:MET:HE2	2.17	0.45
1:13:544:ARG:HA	1:13:547:ASN:HD22	1.80	0.45
1:17:307:LEU:HD12	1:17:665:SER:O	2.16	0.45
1:18:174:GLU:HA	1:18:177:ASN:ND2	2.32	0.45
1:18:513:VAL:HG21	1:18:625:ILE:HD11	1.97	0.45
1:18:567:LEU:HD23	1:18:567:LEU:HA	1.70	0.45
3:D:122:GLY:HA2	4:E:385:TYR:CD2	2.42	0.45
6:K:54:ILE:HG23	6:K:103:LEU:HD23	1.97	0.45
2:c:119:ARG:HE	2:c:123:VAL:HG21	1.82	0.45
4:i:146:PRO:HD3	4:i:270:GLU:HG2	1.98	0.45
4:i:737:GLY:O	4:i:766:ALA:HB2	2.16	0.45
4:i:816:GLY:O	4:i:820:LEU:HG	2.16	0.45
1:z:603:PRO:HD3	1:z:656:LEU:HD11	1.98	0.45
1:2:651:ASP:HB3	1:2:654:CYS:HB3	1.98	0.45
1:4:96:PHE:HD1	1:4:103:PRO:HA	1.81	0.45
1:4:378:MET:O	1:4:382:LEU:HG	2.16	0.45
1:4:602:PHE:HB2	1:4:603:PRO:HD2	1.99	0.45
1:5:515:LEU:HD23	1:5:622:GLY:HA2	1.97	0.45
1:6:189:THR:HG21	1:6:238:GLU:HG2	1.98	0.45
1:6:424:ARG:HD3	1:6:565:LEU:HD23	1.98	0.45
1:7:25:ILE:O	1:7:76:LEU:HA	2.16	0.45
1:8:307:LEU:HD13	1:8:666:ALA:HB2	1.99	0.45
1:9:340:ARG:HH21	1:9:376:PHE:HA	1.81	0.45
1:12:211:VAL:HG22	1:12:247:VAL:HG22	1.99	0.45
10:N:695:SER:HA	10:N:699:LEU:HD11	1.98	0.45
10:N:827:GLN:HG3	10:N:829:HIS:H	1.82	0.45
10:N:989:TRP:HA	10:N:993:PHE:HB2	1.97	0.45
12:M:11:GLN:HE22	15:M:501:GDP:N2	2.14	0.45
12:M:62:ARG:HA	12:M:86:ARG:HH22	1.82	0.45
13:A:433:ALA:HB3	13:A:436:VAL:HG23	1.98	0.45
13:F:470:PHE:CZ	13:F:607:ILE:HG23	2.52	0.45
10:n:80:PRO:HB3	10:n:226:GLN:CD	2.41	0.45
10:n:348:GLN:C	10:n:350:LEU:N	2.74	0.45
10:n:580:MET:HB2	10:n:606:LEU:HD11	1.98	0.45
8:p:730:HIS:CD2	8:p:751:CYS:HB3	2.51	0.45
13:a:244:THR:HG23	13:a:368:LEU:HB2	1.98	0.45
13:a:322:VAL:HG22	13:a:369:ILE:HD12	1.99	0.45
13:a:794:LYS:HA	13:a:797:PHE:HE1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:b:296:LEU:HD22	14:b:310:THR:HB	1.98	0.45
13:f:383:MET:HB3	13:f:383:MET:HE3	1.62	0.45
13:f:470:PHE:CZ	13:f:607:ILE:HG23	2.52	0.45
1:11:482:ASN:ND2	1:11:484:ASP:HB3	2.28	0.45
1:15:345:LEU:HA	1:15:349:MET:CE	2.46	0.45
1:13:49:LEU:HG	1:13:58:ALA:HA	1.98	0.45
1:13:87:ASP:HA	1:13:110:PHE:HB3	1.97	0.45
1:1:642:LEU:H	1:1:642:LEU:HD12	1.82	0.45
2:C:27:LEU:HD11	13:A:258:LEU:HD22	1.98	0.45
4:E:355:LYS:HZ3	4:E:376:SER:HB3	1.82	0.45
4:E:403:GLU:HB2	4:E:470:HIS:CE1	2.52	0.45
4:E:563:LEU:HD11	4:E:589:CYS:HB2	1.98	0.45
4:E:867:ASN:O	4:E:896:CYS:HA	2.17	0.45
4:I:100:HIS:HA	4:I:103:LYS:HD2	1.99	0.45
4:I:462:TYR:HB3	4:I:478:ILE:HD13	1.99	0.45
6:K:27:ILE:HA	6:K:30:MET:HG2	1.98	0.45
1:Z:40:PHE:HZ	1:Z:73:THR:HG21	1.81	0.45
1:Z:87:ASP:HB3	1:Z:110:PHE:HD2	1.80	0.45
4:e:853:LEU:HB2	4:e:880:ALA:HB1	1.98	0.45
4:i:184:PHE:CE1	4:i:203:ILE:HG23	2.51	0.45
4:i:827:PRO:HG3	13:f:844:ILE:HD11	1.99	0.45
8:q:285:PRO:HB2	8:q:287:ILE:HG12	1.98	0.45
1:z:172:PRO:HG3	1:z:221:TYR:HE2	1.81	0.45
1:4:89:ASP:HB2	1:4:111:LEU:C	2.37	0.45
1:4:632:GLU:HG2	1:4:648:PHE:CE2	2.51	0.45
1:7:307:LEU:HD12	1:7:665:SER:O	2.16	0.45
1:8:667:ILE:HG13	1:8:668:ILE:H	1.81	0.45
1:9:57:ILE:HG23	1:9:63:THR:HG21	1.98	0.45
1:9:501:LEU:HD23	1:9:631:LEU:HD23	1.98	0.45
10:N:605:LYS:HD3	10:N:605:LYS:HA	1.69	0.45
8:P:6:ARG:HG2	8:P:13:THR:HG23	1.98	0.45
11:L:99:ASN:ND2	11:L:141:GLY:HA2	2.32	0.45
11:L:266:PHE:HE1	11:L:370:ASN:HB2	1.82	0.45
13:A:322:VAL:HG22	13:A:369:ILE:HD12	1.99	0.45
13:A:1020:LEU:HA	13:A:1023:MET:HE2	1.99	0.45
13:F:404:VAL:O	13:F:408:ILE:HG23	2.17	0.45
13:F:761:MET:HE3	13:F:791:HIS:HB2	1.99	0.45
14:G:495:PHE:CE2	14:G:500:ARG:HG3	2.52	0.45
10:n:835:LEU:HB2	10:n:860:LEU:HD11	1.99	0.45
8:p:770:ILE:O	8:p:774:LEU:HG	2.17	0.45
11:l:99:ASN:ND2	11:l:141:GLY:HA2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:m:260:PHE:HB2	12:m:263:LEU:HD13	1.98	0.45
1:11:41:THR:HG21	1:11:66:TRP:HD1	1.81	0.45
1:11:160:VAL:HG11	1:11:379:LYS:HD3	1.97	0.45
1:19:150:ILE:HG12	1:19:289:ARG:HB3	1.99	0.45
1:19:411:PRO:HG2	1:19:488:PHE:CG	2.52	0.45
1:15:365:LEU:HD23	1:15:389:LEU:HB3	1.98	0.45
1:15:401:LEU:HB3	1:15:406:ASN:ND2	2.31	0.45
1:14:632:GLU:HG2	1:14:648:PHE:CE2	2.51	0.45
1:1:174:GLU:O	1:1:178:LEU:HG	2.17	0.45
2:C:112:HIS:C	2:C:117:LEU:HB3	2.42	0.45
4:E:42:SER:O	4:E:46:VAL:HG23	2.17	0.45
4:E:463:MET:HE3	4:E:512:LEU:HD13	1.97	0.45
4:I:393:GLN:HG2	4:I:426:ASP:HB3	1.99	0.45
9:R:43:HIS:HD2	9:R:59:THR:HB	1.82	0.45
1:Z:384:PRO:HG3	5:j:133:TRP:HZ3	1.82	0.45
4:e:348:CYS:O	4:e:352:GLU:HG2	2.16	0.45
4:e:622:TRP:CZ2	4:e:653:LEU:HB2	2.40	0.45
4:i:393:GLN:HG2	4:i:426:ASP:HB3	1.99	0.45
4:i:488:LYS:HG3	4:i:549:ARG:CZ	2.46	0.45
4:i:899:THR:HA	4:i:925:ALA:HB3	1.98	0.45
1:z:39:SER:HA	1:z:68:SER:HA	1.97	0.45
1:z:404:ILE:HD12	1:z:407:LEU:HD12	1.98	0.45
1:2:232:TYR:CD2	1:2:234:LEU:HD23	2.52	0.45
1:3:532:LYS:HD3	1:3:536:GLN:NE2	2.31	0.45
1:3:625:ILE:HG12	1:3:626:ASN:ND2	2.32	0.45
1:4:41:THR:HG21	1:5:123:TYR:OH	2.16	0.45
1:5:346:GLN:N	1:5:665:SER:HB3	2.31	0.45
1:6:397:ARG:HH22	1:6:438:ARG:HB3	1.82	0.45
1:8:3:PHE:CD1	1:8:281:LEU:HD23	2.51	0.45
1:8:46:PRO:HD2	1:8:47:ARG:NH2	2.31	0.45
1:8:184:THR:HA	1:8:241:ARG:O	2.17	0.45
1:9:241:ARG:HA	1:9:241:ARG:HD3	1.83	0.45
1:12:9:LEU:HB2	1:12:27:LEU:HD21	1.99	0.45
1:12:26:THR:HA	1:12:76:LEU:HD23	1.99	0.45
12:M:101:TRP:CD1	12:M:145:SER:HB3	2.52	0.45
14:B:369:ILE:HG23	14:B:380:GLU:HG3	1.99	0.45
14:G:311:CYS:HB2	14:G:316:ILE:HG12	1.98	0.45
14:G:447:LEU:HA	14:G:470:GLN:HB3	1.98	0.45
10:n:70:PHE:HB2	10:n:110:TYR:CE1	2.51	0.45
10:n:293:GLU:HG2	10:n:294:GLU:N	2.31	0.45
10:n:372:ASP:HB2	10:n:380:MET:HE1	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:285:GLU:HG3	13:f:286:ILE:HG23	1.98	0.45
13:f:426:GLN:HG2	13:f:597:ARG:HG2	1.99	0.45
14:g:495:PHE:CE2	14:g:500:ARG:HG3	2.52	0.45
1:19:57:ILE:HG23	1:19:63:THR:HG21	1.97	0.45
1:15:51:HIS:HB2	1:15:76:LEU:C	2.42	0.45
1:15:137:LYS:HE2	1:15:286:VAL:HG22	1.99	0.45
1:14:345:LEU:O	1:14:349:MET:HB2	2.16	0.45
1:17:431:PHE:HE1	1:17:560:LEU:HD11	1.82	0.45
1:18:185:VAL:HB	1:18:237:PHE:CZ	2.52	0.45
1:1:600:PRO:HB3	1:1:604:ASP:HB3	1.99	0.45
2:C:141:LEU:HD11	3:D:112:LYS:HD2	1.98	0.45
4:I:170:TRP:CD1	4:I:176:PHE:HB2	2.52	0.45
4:I:465:LYS:HE3	4:I:520:LEU:N	2.31	0.45
4:I:557:MET:HE2	4:I:562:PHE:HD2	1.81	0.45
5:J:30:LYS:HA	5:J:30:LYS:HD3	1.77	0.45
5:J:319:LYS:HD3	5:J:330:LYS:HE2	1.98	0.45
7:O:102:VAL:O	7:O:106:ILE:HG12	2.16	0.45
1:Z:152:LEU:HD23	1:Z:152:LEU:HA	1.87	0.45
3:d:13:LEU:HD11	3:d:72:LEU:HD23	1.98	0.45
4:i:100:HIS:HA	4:i:103:LYS:HD2	1.99	0.45
4:i:116:ARG:HH22	4:i:350:LYS:NZ	2.14	0.45
4:i:831:LEU:HD12	4:i:832:GLU:H	1.81	0.45
6:k:36:MET:HE1	6:k:45:VAL:HG22	1.99	0.45
1:z:24:GLU:HG2	1:z:76:LEU:HD22	1.98	0.45
1:z:294:ILE:HG21	1:z:422:LEU:HD11	1.99	0.45
1:z:657:ALA:HB1	1:z:661:ASP:HB2	1.98	0.45
1:2:346:GLN:HA	1:2:667:ILE:HD11	1.99	0.45
1:3:493:ALA:HB1	1:3:577:GLN:HB3	1.99	0.45
1:5:47:ARG:HH22	1:5:88:GLU:HB3	1.82	0.45
1:7:329:VAL:HG21	1:7:611:LEU:HD23	1.99	0.45
1:7:465:MET:HA	1:7:597:PHE:HD2	1.81	0.45
1:7:667:ILE:HG22	1:7:668:ILE:H	1.82	0.45
1:9:533:THR:HG23	1:9:536:GLN:H	1.82	0.45
1:12:345:LEU:HD23	1:12:667:ILE:HG12	1.99	0.45
10:N:951:LEU:HD12	10:N:977:ILE:HD13	1.98	0.45
11:L:45:GLU:O	11:L:49:VAL:HG23	2.16	0.45
12:M:43:GLN:NE2	12:M:47:ILE:HD12	2.32	0.45
13:A:1090:LEU:HD21	13:A:1092:LEU:HG	1.99	0.45
14:B:498:ARG:HB2	14:B:499:LYS:HZ2	1.82	0.45
10:n:761:ILE:HD12	10:n:789:GLY:HA3	1.97	0.45
10:n:827:GLN:HG3	10:n:829:HIS:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:p:6:ARG:HG2	8:p:13:THR:HG23	1.98	0.45
12:m:43:GLN:NE2	12:m:47:ILE:HD12	2.32	0.45
13:a:430:GLN:HE22	13:a:461:LEU:HD22	1.81	0.45
13:a:737:CYS:HA	13:a:740:LEU:HD12	1.99	0.45
13:f:404:VAL:O	13:f:408:ILE:HG23	2.17	0.45
13:f:947:ARG:HD2	13:f:1160:TRP:HE1	1.82	0.45
14:g:457:ARG:NH1	14:g:458:MET:HB3	2.32	0.45
1:11:62:ASP:HB2	1:13:134:LYS:HB2	1.99	0.45
1:19:677:TRP:O	1:19:680:MET:HG2	2.17	0.45
1:16:101:GLU:HB2	1:17:679:LYS:HE2	1.98	0.45
1:14:150:ILE:HG23	1:14:291:ALA:HB2	1.98	0.45
1:14:440:MET:HG3	1:14:445:ARG:HB2	1.99	0.45
1:13:501:LEU:O	1:13:505:LYS:HG2	2.16	0.45
1:17:465:MET:HA	1:17:597:PHE:HD2	1.82	0.45
1:18:481:LYS:O	1:18:481:LYS:HG3	2.16	0.45
4:E:108:ASP:HA	4:E:111:LYS:HD2	1.98	0.45
5:J:112:THR:HA	5:J:159:ASP:HB3	1.99	0.45
4:i:760:ILE:HG21	4:i:788:CYS:HA	1.98	0.45
4:i:786:GLU:HA	4:i:789:TRP:CD1	2.52	0.45
5:j:254:HIS:HE1	5:j:256:CYS:SG	2.39	0.45
5:j:357:ILE:HD11	5:j:368:PHE:HB2	1.98	0.45
5:j:370:MET:HE1	5:j:371:LYS:NZ	2.32	0.45
1:3:133:ASP:HB3	1:3:136:ALA:HB3	1.99	0.45
1:5:192:LEU:HD13	1:5:238:GLU:HA	1.99	0.45
1:5:283:LYS:HB2	1:6:431:PHE:CE2	2.52	0.45
1:6:546:GLN:HB3	1:6:581:LEU:HG	1.99	0.45
1:6:595:LYS:HD3	1:6:597:PHE:CE1	2.52	0.45
1:7:41:THR:HA	1:7:65:VAL:O	2.17	0.45
1:12:581:LEU:HD12	1:12:597:PHE:C	2.41	0.45
10:N:296:CYS:HA	10:N:302:LEU:CD2	2.45	0.45
10:N:634:HIS:HE2	10:N:636:ASP:HB2	1.81	0.45
8:P:312:LYS:HD2	8:P:312:LYS:HA	1.71	0.45
12:M:286:VAL:HG21	12:M:326:VAL:HG22	1.99	0.45
13:A:869:VAL:HG11	13:A:874:MET:SD	2.57	0.45
13:A:1124:GLN:HE21	14:B:283:ALA:HB1	1.81	0.45
13:F:315:GLN:N	13:F:316:PRO:HD2	2.32	0.45
13:F:625:GLN:NE2	13:F:626:LYS:HG3	2.32	0.45
14:G:457:ARG:NH1	14:G:458:MET:HB3	2.32	0.45
12:m:190:HIS:CG	12:m:411:ALA:HA	2.52	0.45
13:a:470:PHE:CZ	13:a:607:ILE:HG23	2.52	0.45
13:a:686:SER:HA	13:a:689:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:f:1033:LEU:O	13:f:1062:LEU:HA	2.16	0.45
1:11:397:ARG:HB3	1:11:400:SER:HB2	1.99	0.45
1:15:134:LYS:HA	1:15:137:LYS:HG2	1.99	0.45
1:13:398:VAL:HG11	1:13:587:VAL:HG12	1.99	0.45
1:1:522:GLU:OE2	1:1:523:GLN:HG2	2.17	0.45
4:E:51:ARG:HD3	4:E:51:ARG:N	2.31	0.45
4:E:490:LYS:HG2	4:E:493:TRP:CE2	2.52	0.45
4:E:563:LEU:HD21	4:E:589:CYS:HB2	1.99	0.45
4:I:488:LYS:HG3	4:I:549:ARG:CZ	2.46	0.45
4:I:737:GLY:O	4:I:766:ALA:HB2	2.16	0.45
6:K:18:VAL:HG22	6:K:38:ASP:OD1	2.17	0.45
1:Z:518:ASP:OD2	1:Z:624:LYS:HB2	2.16	0.45
4:e:73:ILE:O	4:e:77:ILE:HG12	2.17	0.45
4:e:180:PHE:HA	4:e:223:LYS:HA	1.98	0.45
4:e:461:PHE:O	4:e:464:LEU:HB2	2.17	0.45
4:e:889:LYS:HA	4:e:916:LEU:HA	1.99	0.45
4:i:170:TRP:CD1	4:i:176:PHE:HB2	2.52	0.45
4:i:557:MET:HE2	4:i:562:PHE:HD2	1.81	0.45
7:o:15:ARG:HH11	7:o:16:ASP:HB2	1.82	0.45
7:o:75:HIS:CE1	7:o:77:ASN:HB2	2.52	0.45
8:q:220:MET:HG3	8:q:220:MET:O	2.16	0.45
1:2:5:ASN:HB3	1:2:23:MET:HE3	1.99	0.45
1:3:49:LEU:HG	1:3:57:ILE:O	2.16	0.45
1:3:142:TRP:HB2	1:3:682:PRO:HD3	1.99	0.45
1:4:345:LEU:O	1:4:349:MET:HB2	2.16	0.45
1:5:329:VAL:HG21	1:5:611:LEU:HD22	1.99	0.45
1:5:603:PRO:HB3	1:5:655:TYR:CD2	2.52	0.45
1:6:210:ARG:HB2	1:6:248:GLU:HG2	1.98	0.45
1:7:19:CYS:SG	1:7:113:GLY:HA2	2.57	0.45
1:8:175:ILE:O	1:8:178:LEU:HB2	2.17	0.45
1:8:271:ALA:HB2	1:8:278:GLU:N	2.32	0.45
1:9:175:ILE:HG21	1:9:221:TYR:CE2	2.52	0.45
10:N:293:GLU:HG2	10:N:294:GLU:N	2.31	0.45
8:P:338:LEU:O	8:P:361:GLU:HG3	2.17	0.45
13:A:408:ILE:HG13	13:A:410:ASN:H	1.81	0.45
13:A:951:ASN:O	13:A:980:MET:HB3	2.17	0.45
11:l:121:ARG:O	11:l:125:GLU:OE1	2.35	0.45
13:a:408:ILE:HG13	13:a:410:ASN:H	1.81	0.45
13:a:872:LYS:HA	13:a:875:ILE:HD12	1.98	0.45
13:f:496:MET:HE2	13:f:517:TYR:HE1	1.82	0.45
13:f:992:CYS:SG	13:f:1023:MET:HE1	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:391:CYS:HA	14:g:406:PHE:CD1	2.52	0.45
1:11:98:PRO:HG2	1:11:101:GLU:HB3	1.99	0.45
1:11:296:MET:HE1	1:11:351:PHE:C	2.42	0.45
1:11:465:MET:HE1	1:11:584:LEU:HA	1.99	0.45
1:15:283:LYS:HB2	1:16:431:PHE:CE2	2.52	0.45
1:15:577:GLN:HA	1:15:602:PHE:HZ	1.82	0.45
1:16:397:ARG:HH22	1:16:438:ARG:HB3	1.81	0.45
1:14:378:MET:O	1:14:382:LEU:HG	2.16	0.45
1:14:558:ARG:HE	1:14:562:LYS:HD2	1.82	0.45
1:17:319:SER:HA	1:17:322:LYS:HE2	1.97	0.45
1:1:3:PHE:HE1	1:1:23:MET:HE3	1.81	0.44
1:1:676:LYS:HG2	1:1:678:TRP:CZ2	2.51	0.44
3:D:13:LEU:HD11	3:D:72:LEU:HD23	1.99	0.44
4:E:180:PHE:HA	4:E:223:LYS:HA	1.98	0.44
4:E:682:GLU:O	4:E:685:GLN:HG3	2.17	0.44
4:E:691:TYR:CD1	4:E:720:LYS:HB2	2.52	0.44
4:E:694:LEU:HD13	4:E:699:LEU:HD11	1.99	0.44
8:Q:205:ARG:HB2	8:Q:282:GLU:HB3	1.99	0.44
1:Z:114:ILE:HD13	1:Z:192:LEU:HD21	1.99	0.44
4:e:586:ALA:O	4:e:590:LEU:HG	2.17	0.44
2:h:47:LEU:HD23	2:h:48:TYR:N	2.32	0.44
1:4:603:PRO:HA	1:4:656:LEU:HG	1.99	0.44
1:5:534:ILE:O	1:5:537:ILE:HG22	2.17	0.44
1:5:649:ILE:HB	1:5:655:TYR:OH	2.17	0.44
1:6:364:ILE:HG23	1:6:388:TYR:CD1	2.49	0.44
1:8:11:LEU:HD23	1:8:107:ALA:HB2	1.99	0.44
1:8:52:ILE:HB	1:8:55:SER:O	2.16	0.44
1:8:411:PRO:HD3	1:8:475:PHE:CD2	2.52	0.44
10:N:516:PRO:O	10:N:519:ARG:HG2	2.18	0.44
10:N:805:HIS:HA	10:N:832:LEU:HA	1.99	0.44
10:N:822:CYS:O	10:N:826:GLN:HG3	2.16	0.44
12:M:190:HIS:CG	12:M:411:ALA:HA	2.52	0.44
13:A:244:THR:HG23	13:A:368:LEU:HB2	1.98	0.44
13:F:234:LYS:HD2	13:F:234:LYS:HA	1.79	0.44
13:F:836:LEU:HD23	13:F:836:LEU:O	2.16	0.44
14:G:391:CYS:HA	14:G:406:PHE:CD1	2.52	0.44
10:n:332:LYS:HB3	10:n:353:HIS:HD2	1.81	0.44
10:n:333:ALA:HB2	10:n:353:HIS:CG	2.51	0.44
11:l:5:VAL:HG23	11:l:62:ARG:HB3	1.99	0.44
13:a:433:ALA:HB3	13:a:436:VAL:HG23	1.98	0.44
1:11:197:LEU:HD23	1:11:197:LEU:HA	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:19:117:SER:O	1:19:183:VAL:HA	2.18	0.44
1:19:268:VAL:HG22	1:19:280:PRO:HA	1.98	0.44
1:16:401:LEU:HD23	1:16:401:LEU:HA	1.75	0.44
1:16:546:GLN:HB3	1:16:581:LEU:HG	1.99	0.44
1:14:47:ARG:HB3	1:14:81:ALA:HB3	1.99	0.44
1:14:524:LEU:HD23	1:14:524:LEU:HA	1.85	0.44
1:17:373:LEU:HD23	1:17:373:LEU:HA	1.85	0.44
1:17:623:PRO:HB2	1:17:625:ILE:HG13	1.99	0.44
1:18:57:ILE:HG23	1:18:63:THR:HB	1.99	0.44
1:18:295:PHE:HB2	1:18:409:VAL:HG21	1.97	0.44
1:18:488:PHE:CZ	1:18:567:LEU:HD21	2.52	0.44
1:18:528:GLY:C	1:18:529:ARG:HD2	2.42	0.44
1:1:314:GLN:H	1:1:317:VAL:HG12	1.82	0.44
4:E:590:LEU:HD13	4:E:625:MET:HB2	1.99	0.44
4:I:919:LEU:HG	4:I:921:LEU:HD21	1.99	0.44
5:J:64:GLU:OE1	5:J:68:GLN:HB3	2.17	0.44
5:J:69:PHE:HA	5:J:72:TYR:CE2	2.52	0.44
6:K:76:GLU:HG2	6:K:80:LYS:HE3	1.99	0.44
6:K:147:GLU:OE2	6:K:149:GLU:HB2	2.18	0.44
7:O:15:ARG:HH11	7:O:16:ASP:HB2	1.82	0.44
7:O:75:HIS:CE1	7:O:77:ASN:HB2	2.52	0.44
8:Q:285:PRO:HB2	8:Q:287:ILE:HG12	1.99	0.44
4:e:490:LYS:HG2	4:e:493:TRP:CE2	2.53	0.44
4:i:461:PHE:O	4:i:467:HIS:HB3	2.17	0.44
6:k:122:THR:HA	6:k:125:ASN:HD22	1.81	0.44
1:2:26:THR:HA	1:2:76:LEU:HD23	2.00	0.44
1:3:345:LEU:O	1:3:349:MET:HB2	2.17	0.44
1:3:631:LEU:C	1:3:633:GLU:H	2.25	0.44
1:7:294:ILE:HB	1:7:353:TYR:CE1	2.53	0.44
1:9:608:ILE:HG23	1:9:617:ILE:HG12	1.99	0.44
10:N:42:TRP:HZ3	10:N:102:LEU:HD21	1.81	0.44
11:L:8:GLN:CG	11:L:17:GLY:HA3	2.46	0.44
13:A:794:LYS:HA	13:A:797:PHE:HE1	1.82	0.44
13:A:872:LYS:HA	13:A:875:ILE:HD12	1.99	0.44
13:f:279:ILE:HD13	13:f:321:PHE:HE1	1.82	0.44
14:g:447:LEU:HA	14:g:470:GLN:HB3	1.98	0.44
1:11:469:MET:HB2	1:11:472:PHE:CZ	2.52	0.44
1:17:19:CYS:SG	1:17:113:GLY:HA2	2.58	0.44
1:17:369:ARG:C	1:17:396:HIS:HB2	2.43	0.44
1:18:529:ARG:HD2	1:18:529:ARG:N	2.32	0.44
2:C:27:LEU:HD23	2:C:27:LEU:H	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:130:TYR:HB3	4:E:175:VAL:HG11	1.99	0.44
4:E:375:PHE:HZ	4:E:512:LEU:HD23	1.83	0.44
2:H:70:TRP:CD1	2:H:71:MET:SD	3.10	0.44
2:H:73:GLN:O	2:H:74:ALA:HB2	2.16	0.44
4:I:464:LEU:HD22	4:I:519:ARG:HB3	1.98	0.44
5:J:71:VAL:HA	6:K:155:LYS:NZ	2.32	0.44
1:z:239:ASN:H	1:z:241:ARG:HH22	1.66	0.44
1:z:619:LYS:HG3	1:z:632:GLU:OE2	2.17	0.44
1:4:440:MET:HG3	1:4:445:ARG:HB2	1.99	0.44
1:4:475:PHE:CE1	1:4:490:LEU:HD12	2.52	0.44
1:7:620:PRO:HD2	1:7:632:GLU:OE2	2.17	0.44
1:12:213:TRP:CE3	1:12:215:GLN:HG2	2.53	0.44
10:N:131:SER:HB2	10:N:182:TRP:O	2.17	0.44
10:N:164:PHE:HB3	10:N:210:THR:HB	1.99	0.44
11:L:5:VAL:HG23	11:L:62:ARG:HB3	1.99	0.44
13:A:281:PHE:HB2	13:A:323:ILE:HG13	1.99	0.44
13:A:437:CYS:HA	13:A:440:VAL:HB	2.00	0.44
13:F:992:CYS:SG	13:F:1023:MET:HE1	2.57	0.44
14:G:148:GLN:HG2	14:G:551:VAL:HG13	2.00	0.44
14:G:469:SER:OG	14:G:487:LEU:HB3	2.17	0.44
10:n:418:LEU:HB3	10:n:470:LEU:HD11	2.00	0.44
12:m:32:PRO:HB3	12:m:81:PHE:CE1	2.53	0.44
13:a:630:TRP:O	13:a:634:ILE:HG13	2.17	0.44
13:f:307:ASP:O	13:f:311:LYS:HE3	2.18	0.44
1:11:565:LEU:HB3	1:11:567:LEU:HD23	1.99	0.44
1:15:190:SER:O	1:15:193:GLN:HG3	2.18	0.44
1:14:38:LYS:HA	1:14:38:LYS:HD3	1.68	0.44
1:13:153:VAL:HB	1:13:252:PHE:CE1	2.53	0.44
1:13:345:LEU:HD12	1:13:349:MET:HG3	1.98	0.44
1:17:620:PRO:HD2	1:17:632:GLU:OE2	2.17	0.44
1:17:676:LYS:H	1:17:676:LYS:HG2	1.53	0.44
1:18:260:LEU:HD21	1:18:289:ARG:HH21	1.82	0.44
1:18:269:GLU:HB2	1:18:281:LEU:HD11	1.99	0.44
3:D:43:ARG:HB2	3:D:87:TRP:CZ3	2.53	0.44
4:E:234:MET:HB2	4:E:236:TRP:CD1	2.53	0.44
4:E:461:PHE:O	4:E:464:LEU:HB2	2.17	0.44
4:E:647:GLU:HA	4:E:650:ILE:HG22	1.98	0.44
4:I:460:ILE:O	4:I:464:LEU:HG	2.18	0.44
4:I:647:GLU:HG3	4:I:676:ASP:HB2	2.00	0.44
5:J:11:MET:HG3	5:J:40:PHE:CE1	2.52	0.44
5:J:357:ILE:HD11	5:J:368:PHE:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:O:113:PRO:HB2	7:O:127:TYR:CZ	2.52	0.44
1:Z:276:ILE:HG23	1:9:549:TYR:HB2	1.99	0.44
4:e:22:PHE:CZ	4:e:26:LYS:HE3	2.53	0.44
4:e:555:PHE:CG	4:e:585:VAL:HG22	2.53	0.44
4:i:159:LYS:HG2	4:i:297:ALA:HB2	1.99	0.44
4:i:259:LEU:HD12	4:i:259:LEU:HA	1.86	0.44
4:i:259:LEU:O	4:i:263:LEU:HG	2.17	0.44
4:i:818:LYS:HE2	4:i:822:ARG:HH21	1.82	0.44
1:z:412:PRO:HB3	1:z:421:PRO:HA	1.98	0.44
1:2:201:THR:HB	1:2:263:LEU:HD23	1.98	0.44
1:4:150:ILE:HG23	1:4:291:ALA:HB2	1.98	0.44
1:5:58:ALA:HB3	1:5:60:LYS:NZ	2.32	0.44
1:6:172:PRO:O	1:6:176:GLN:OE1	2.35	0.44
1:12:42:ILE:HG13	1:12:93:VAL:HG22	2.00	0.44
10:N:279:CYS:HA	10:N:282:LEU:HD12	1.98	0.44
13:A:1159:ASN:CG	13:A:1162:LYS:HD3	2.43	0.44
14:B:525:TRP:CE2	14:B:537:HIS:HB2	2.52	0.44
13:F:472:GLN:CD	13:F:530:MET:HE1	2.42	0.44
10:n:241:TYR:O	10:n:244:HIS:HB2	2.18	0.44
11:l:7:ILE:HG13	11:l:135:LEU:HG	1.99	0.44
12:m:286:VAL:HG21	12:m:326:VAL:HG22	2.00	0.44
13:f:233:PHE:HZ	13:f:369:ILE:HG12	1.81	0.44
14:g:285:GLN:HB3	14:g:578:HIS:CD2	2.53	0.44
1:11:408:MET:HE2	1:11:469:MET:HG2	2.00	0.44
1:16:430:SER:HA	1:16:460:PHE:CD1	2.53	0.44
1:14:24:GLU:HB3	1:14:76:LEU:HB3	1.98	0.44
1:14:584:LEU:HG	1:14:587:VAL:HG21	2.00	0.44
1:14:602:PHE:HB2	1:14:603:PRO:HD2	2.00	0.44
1:17:237:PHE:CZ	1:17:243:GLU:HG3	2.53	0.44
1:17:297:PRO:HB3	1:17:409:VAL:HG12	1.98	0.44
1:17:503:GLU:HA	1:17:538:LEU:HD13	1.99	0.44
1:18:175:ILE:O	1:18:178:LEU:HB2	2.17	0.44
4:E:204:SER:HA	4:E:212:ALA:HB2	2.00	0.44
4:E:348:CYS:O	4:E:352:GLU:HG2	2.17	0.44
5:J:435:LYS:HG3	5:J:436:ASN:H	1.83	0.44
6:K:8:SER:HA	6:K:47:LEU:HD12	1.99	0.44
9:R:65:LEU:HD12	9:R:66:GLN:CG	2.23	0.44
1:Z:197:LEU:HD13	1:Z:237:PHE:CD2	2.52	0.44
1:Z:634:LYS:HD2	1:Z:634:LYS:HA	1.80	0.44
4:e:247:ASP:HB2	4:e:266:LYS:NZ	2.33	0.44
4:e:493:TRP:HB3	4:e:496:LEU:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:681:PHE:CB	4:e:710:ILE:HD11	2.45	0.44
5:j:30:LYS:C	5:j:32:TRP:H	2.24	0.44
1:3:28:ASP:HB3	1:3:31:LYS:HB2	1.99	0.44
1:3:87:ASP:HA	1:3:110:PHE:HB3	2.00	0.44
1:3:391:ARG:HD2	1:3:392:GLN:H	1.82	0.44
1:5:118:LEU:HD21	1:5:286:VAL:HG21	1.98	0.44
1:6:119:GLU:HB2	1:6:129:ASP:O	2.17	0.44
1:8:141:MET:HG3	1:8:147:TRP:CH2	2.52	0.44
1:9:188:PRO:HG2	1:9:191:ILE:HD12	1.98	0.44
10:N:33:VAL:HG21	10:N:141:PRO:HG3	2.00	0.44
10:N:241:TYR:O	10:N:244:HIS:HB2	2.18	0.44
10:N:761:ILE:HD12	10:N:789:GLY:HA3	1.98	0.44
8:P:722:ARG:HB3	8:P:734:LYS:HE2	2.00	0.44
12:M:31:ASP:HB3	12:M:35:SER:N	2.32	0.44
12:M:139:LEU:HB2	12:M:171:PRO:HD3	1.98	0.44
12:M:300:MET:HE1	12:M:303:CYS:C	2.42	0.44
13:A:309:VAL:HA	13:A:312:ILE:HG12	1.98	0.44
13:A:796:LEU:HD11	13:A:823:ALA:HB1	1.99	0.44
13:F:966:ARG:NH2	13:F:969:ASN:HD21	2.16	0.44
10:n:251:TRP:CZ2	10:n:283:LYS:HA	2.53	0.44
8:p:713:CYS:HB3	8:p:716:CYS:HB2	1.39	0.44
8:p:725:THR:OG1	8:p:764:ASN:HB2	2.18	0.44
13:a:281:PHE:HB2	13:a:323:ILE:HG13	1.98	0.44
13:a:1062:LEU:O	13:a:1090:LEU:HA	2.17	0.44
14:b:525:TRP:CE2	14:b:537:HIS:HB2	2.52	0.44
13:f:472:GLN:CD	13:f:530:MET:HE1	2.43	0.44
14:g:148:GLN:HG2	14:g:551:VAL:HG13	2.00	0.44
14:g:392:GLN:HB2	14:g:405:GLY:O	2.18	0.44
1:11:309:ARG:HD2	1:11:333:LYS:NZ	2.32	0.44
1:11:642:LEU:H	1:11:642:LEU:HD12	1.82	0.44
1:19:157:PRO:HD3	1:19:387:GLY:HA2	2.00	0.44
1:15:9:LEU:HD22	1:15:107:ALA:HB1	1.98	0.44
1:15:192:LEU:HD13	1:15:238:GLU:HA	1.99	0.44
1:15:649:ILE:HB	1:15:655:TYR:OH	2.17	0.44
1:16:353:TYR:CD2	1:16:672:PRO:HB3	2.52	0.44
1:13:182:ASN:CG	1:13:242:LYS:HD3	2.43	0.44
1:17:308:CYS:SG	1:17:345:LEU:HD22	2.58	0.44
1:18:47:ARG:HD2	1:18:81:ALA:HB3	1.98	0.44
1:18:401:LEU:HD21	1:18:467:GLY:HA3	1.98	0.44
1:1:472:PHE:O	1:1:492:LEU:HA	2.17	0.44
4:E:73:ILE:O	4:E:77:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:195:LEU:O	5:J:196:LYS:HE2	2.17	0.44
6:K:31:LEU:HD13	6:K:38:ASP:HB2	1.98	0.44
4:e:691:TYR:CD1	4:e:720:LYS:HB2	2.52	0.44
4:e:694:LEU:HD13	4:e:699:LEU:HD11	1.99	0.44
5:j:3:ILE:O	5:j:3:ILE:HG22	2.17	0.44
5:j:254:HIS:HE1	5:j:256:CYS:CB	2.31	0.44
5:j:287:LYS:HB2	5:j:304:ARG:H	1.82	0.44
7:o:60:TYR:CD1	7:o:61:PRO:HA	2.52	0.44
1:2:57:ILE:HG23	1:2:63:THR:HB	1.98	0.44
1:3:549:TYR:HE1	1:4:279:ILE:HB	1.82	0.44
1:3:625:ILE:HG12	1:3:626:ASN:N	2.32	0.44
1:4:47:ARG:HH22	1:4:88:GLU:HG2	1.83	0.44
1:5:581:LEU:HD23	1:5:598:ALA:N	2.32	0.44
1:6:39:SER:O	1:6:95:TYR:HA	2.18	0.44
1:6:353:TYR:CD2	1:6:672:PRO:HB3	2.52	0.44
1:6:401:LEU:HA	1:6:401:LEU:HD23	1.75	0.44
1:8:240:ARG:HH12	1:8:243:GLU:HB2	1.82	0.44
1:9:138:LYS:O	1:9:287:MET:HG2	2.17	0.44
1:9:353:TYR:CD2	1:9:672:PRO:HB3	2.53	0.44
1:9:581:LEU:HA	1:9:598:ALA:HA	2.00	0.44
1:12:209:THR:HB	1:12:261:ILE:HD13	2.00	0.44
1:12:232:TYR:CE2	1:12:234:LEU:HD23	2.52	0.44
1:12:346:GLN:HA	1:12:667:ILE:HD11	2.00	0.44
10:N:233:LEU:HD22	10:N:237:ALA:HB1	1.98	0.44
10:N:251:TRP:CZ2	10:N:283:LYS:HA	2.53	0.44
11:L:7:ILE:HG13	11:L:135:LEU:HG	1.99	0.44
11:L:163:ILE:HB	11:L:197:ASP:OD2	2.18	0.44
11:L:300:MET:SD	11:L:305:PRO:HD3	2.57	0.44
12:M:263:LEU:HG	12:M:422:TYR:CZ	2.52	0.44
13:A:468:LEU:O	13:A:472:GLN:HG2	2.18	0.44
13:A:747:LYS:HG3	13:A:748:GLU:OE1	2.18	0.44
13:A:1102:MET:HE2	13:A:1102:MET:N	2.32	0.44
10:n:469:GLY:HA2	10:n:472:LYS:HD2	2.00	0.44
8:p:342:CYS:HB2	8:p:365:TYR:CD1	2.52	0.44
12:m:263:LEU:HG	12:m:422:TYR:CZ	2.53	0.44
12:m:300:MET:HE1	12:m:303:CYS:C	2.42	0.44
13:a:796:LEU:HD11	13:a:823:ALA:HB1	2.00	0.44
13:f:216:SER:HB2	13:f:219:LEU:HB2	2.00	0.44
13:f:926:LEU:HB3	13:f:953:CYS:HB2	2.00	0.44
14:g:276:GLU:HB2	14:g:278:PHE:HD1	1.83	0.44
14:g:320:ASN:HB2	14:g:332:GLU:OE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:14:550:VAL:HG11	1:14:579:PHE:CD1	2.53	0.44
1:13:345:LEU:O	1:13:349:MET:HB2	2.17	0.44
1:13:504:GLN:HA	1:13:507:LYS:HD2	2.00	0.44
1:17:29:ILE:HD11	1:17:75:ALA:HB2	1.99	0.44
1:17:262:SER:HB3	1:17:287:MET:SD	2.58	0.44
1:17:460:PHE:HB3	1:17:557:ASN:HD21	1.81	0.44
1:18:40:PHE:CE2	1:18:42:ILE:HB	2.53	0.44
1:18:201:THR:HB	1:18:206:ALA:HB2	1.98	0.44
1:1:298:SER:OG	1:1:475:PHE:HB2	2.17	0.44
2:C:119:ARG:HE	2:C:123:VAL:CG2	2.31	0.44
3:D:62:ILE:HB	3:D:63:PRO:HD3	1.99	0.44
4:E:22:PHE:CZ	4:E:26:LYS:HE3	2.53	0.44
4:E:364:ARG:HH21	4:E:365:ARG:HH21	1.64	0.44
4:E:797:ARG:HG3	4:E:823:SER:OG	2.16	0.44
4:I:818:LYS:HE2	4:I:822:ARG:HH21	1.82	0.44
5:J:71:VAL:HG22	6:K:155:LYS:HE3	1.99	0.44
5:J:451:ARG:NH2	13:F:856:THR:HG23	2.32	0.44
1:Z:345:LEU:HG	1:Z:349:MET:SD	2.58	0.44
2:c:141:LEU:HD23	2:c:141:LEU:HA	1.90	0.44
3:d:43:ARG:HB2	3:d:87:TRP:CZ3	2.53	0.44
4:i:647:GLU:HG3	4:i:676:ASP:HB2	2.00	0.44
1:z:213:TRP:CE3	1:z:224:VAL:HG11	2.44	0.44
1:z:378:MET:O	1:z:382:LEU:HG	2.18	0.44
1:z:465:MET:HE2	1:z:599:ARG:HB2	2.00	0.44
1:3:138:LYS:HE2	1:3:285:THR:H	1.83	0.44
1:6:411:PRO:HG2	1:6:488:PHE:CG	2.52	0.44
1:7:21:VAL:HG21	1:7:115:GLU:OE2	2.16	0.44
1:7:503:GLU:HA	1:7:538:LEU:HD13	1.99	0.44
1:7:658:ASN:HB2	1:7:661:ASP:OD2	2.17	0.44
1:8:51:HIS:HB2	1:8:76:LEU:HB2	2.00	0.44
1:8:624:LYS:HB2	1:8:624:LYS:HE3	1.75	0.44
10:N:754:ASN:O	10:N:756:LEU:HD22	2.18	0.44
10:N:847:CYS:HB3	10:N:878:LEU:HG	2.00	0.44
10:N:935:LEU:O	10:N:939:LEU:HG	2.17	0.44
11:L:388:MET:HE2	12:M:347:ASN:HA	2.00	0.44
13:A:259:ALA:O	13:A:263:VAL:HG23	2.18	0.44
13:A:448:LYS:HE2	13:A:448:LYS:HB3	1.79	0.44
13:A:470:PHE:CZ	13:A:607:ILE:HG23	2.52	0.44
13:A:686:SER:HA	13:A:689:LEU:HB2	1.98	0.44
14:B:490:GLY:O	14:B:509:LYS:HG2	2.18	0.44
13:F:926:LEU:HB3	13:F:953:CYS:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:1149:ASP:CG	13:F:1152:ALA:HB2	2.43	0.44
10:n:44:LYS:HD2	10:n:44:LYS:HA	1.80	0.44
10:n:634:HIS:HE2	10:n:636:ASP:HB2	1.81	0.44
8:p:517:CYS:SG	8:p:528:ALA:HB2	2.58	0.44
11:l:266:PHE:HE1	11:l:370:ASN:HB2	1.82	0.44
12:m:62:ARG:HA	12:m:86:ARG:HH22	1.82	0.44
13:a:1159:ASN:CG	13:a:1162:LYS:HD3	2.43	0.44
13:f:1021:ALA:HA	13:f:1024:ILE:HG12	2.00	0.44
14:g:369:ILE:HG23	14:g:380:GLU:HG3	2.00	0.44
1:15:52:ILE:CD1	1:15:75:ALA:HB2	2.48	0.44
1:15:136:ALA:HB1	1:15:147:TRP:NE1	2.33	0.44
1:13:534:ILE:HD11	1:13:623:PRO:HB3	1.99	0.44
1:18:119:GLU:HG2	1:18:131:PRO:HB3	2.00	0.44
1:1:207:LYS:HD3	1:1:207:LYS:HA	1.74	0.44
1:1:397:ARG:HB3	1:1:400:SER:HB2	1.99	0.44
2:C:133:ARG:NH2	3:D:54:MET:HG2	2.28	0.44
4:I:330:LYS:HG3	4:I:580:TYR:HD2	1.82	0.44
4:I:875:MET:HE2	4:I:875:MET:HA	1.98	0.44
5:J:305:ARG:O	5:J:308:PRO:HD2	2.17	0.44
1:Z:46:PRO:HA	1:Z:60:LYS:H	1.82	0.44
4:e:130:TYR:HB3	4:e:175:VAL:HG11	1.99	0.44
4:e:234:MET:HB2	4:e:236:TRP:CD1	2.53	0.44
4:e:682:GLU:O	4:e:685:GLN:HG3	2.17	0.44
4:i:330:LYS:HG3	4:i:580:TYR:HD2	1.82	0.44
4:i:590:LEU:HB2	4:i:625:MET:HE1	2.00	0.44
5:j:127:LYS:NZ	5:j:150:SER:HB3	2.32	0.44
5:j:159:ASP:OD1	5:j:160:MET:HG2	2.18	0.44
7:o:97:LEU:HA	7:o:101:LYS:HD2	2.00	0.44
1:4:348:GLU:O	1:4:349:MET:HE2	2.17	0.44
1:4:502:PHE:CD2	1:4:534:ILE:HG12	2.53	0.44
1:5:464:LEU:HD13	1:5:471:GLN:HB2	1.99	0.44
1:8:297:PRO:HA	1:8:409:VAL:HB	2.00	0.44
1:8:309:ARG:HH12	1:8:313:LEU:N	2.16	0.44
1:9:351:PHE:CE1	1:9:364:ILE:HD12	2.52	0.44
1:9:605:MET:HE2	1:9:620:PRO:HG3	2.00	0.44
1:9:677:TRP:O	1:9:680:MET:HG2	2.17	0.44
10:N:233:LEU:HB3	10:N:237:ALA:HB3	1.98	0.44
10:N:237:ALA:O	11:L:344:TRP:HH2	2.00	0.44
8:P:517:CYS:SG	8:P:528:ALA:HB2	2.58	0.44
11:L:391:ARG:C	11:L:392:LYS:HG2	2.42	0.44
13:A:348:GLN:HG3	13:A:349:PRO:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:681:ASP:HA	13:A:684:VAL:HG22	2.00	0.44
13:A:1062:LEU:O	13:A:1090:LEU:HA	2.18	0.44
13:F:947:ARG:HD2	13:F:1160:TRP:HE1	1.82	0.44
13:F:1151:TYR:CZ	14:G:268:PRO:HB3	2.52	0.44
10:n:48:HIS:CE1	11:l:252:LYS:HE3	2.52	0.44
10:n:237:ALA:O	11:l:344:TRP:HH2	2.00	0.44
13:a:437:CYS:HA	13:a:440:VAL:HB	2.00	0.44
13:a:468:LEU:O	13:a:472:GLN:HG2	2.18	0.44
13:f:212:LYS:HA	13:f:212:LYS:HD3	1.80	0.44
13:f:246:ILE:HD13	13:f:380:LEU:HD21	2.00	0.44
13:f:477:ARG:HD2	13:f:483:LEU:HD23	1.99	0.44
1:11:50:ILE:HB	1:11:57:ILE:HD13	1.98	0.44
1:19:60:LYS:HB2	1:19:63:THR:HG22	2.00	0.44
1:19:603:PRO:HG2	1:19:621:PHE:CD2	2.53	0.44
1:15:153:VAL:HG21	1:15:252:PHE:CE2	2.53	0.44
1:15:202:SER:HB3	1:15:205:GLU:CD	2.43	0.44
1:15:466:THR:HB	1:15:468:HIS:CD2	2.53	0.44
1:16:42:ILE:HG12	1:16:50:ILE:HG21	2.00	0.44
1:16:60:LYS:HZ2	1:17:78:ARG:HD3	1.80	0.44
1:16:172:PRO:O	1:16:176:GLN:OE1	2.35	0.44
1:13:463:TRP:CZ3	1:13:550:VAL:HG13	2.53	0.44
1:17:39:SER:HA	1:17:68:SER:HA	2.00	0.44
1:17:294:ILE:HB	1:17:353:TYR:CE1	2.53	0.44
1:18:138:LYS:HE2	1:18:285:THR:HB	2.00	0.44
1:18:465:MET:HE1	1:18:584:LEU:HD12	2.00	0.44
1:1:24:GLU:HG3	1:1:78:ARG:HE	1.82	0.44
1:1:640:GLU:HG3	1:1:641:PRO:HD3	2.00	0.44
3:D:6:ARG:NH1	3:D:76:ASN:HA	2.33	0.44
3:D:36:GLU:O	3:D:39:GLU:HB2	2.18	0.44
3:D:125:ARG:HH12	4:E:386:PRO:HD2	1.83	0.44
4:E:125:PHE:HZ	4:E:168:LEU:HD23	1.83	0.44
4:E:889:LYS:HA	4:E:916:LEU:HA	1.99	0.44
4:I:553:CYS:O	4:I:557:MET:HG2	2.18	0.44
5:J:461:THR:HG23	1:z:173:ARG:HH12	1.82	0.44
8:Q:224:ASN:HD22	8:Q:232:GLY:HA3	1.82	0.44
1:Z:294:ILE:HD12	1:Z:353:TYR:CE2	2.52	0.44
3:d:125:ARG:HH12	4:e:386:PRO:HD2	1.83	0.44
5:j:39:ASP:O	5:j:43:ARG:HB2	2.18	0.44
5:j:435:LYS:HG3	5:j:436:ASN:H	1.83	0.44
8:q:209:PRO:HA	8:q:272:ASP:HA	2.00	0.44
8:q:258:LEU:HA	8:q:261:SER:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:r:43:HIS:HD2	9:r:59:THR:HB	1.82	0.44
1:z:189:THR:HG22	1:z:193:GLN:NE2	2.32	0.44
1:3:345:LEU:HD12	1:3:349:MET:HG3	1.99	0.44
1:4:412:PRO:HB3	1:4:421:PRO:HA	2.00	0.44
1:4:558:ARG:HE	1:4:562:LYS:HD2	1.83	0.44
1:5:202:SER:HB3	1:5:205:GLU:CD	2.43	0.44
1:5:345:LEU:HB3	1:5:665:SER:CB	2.47	0.44
1:7:464:LEU:HD22	1:7:471:GLN:CD	2.43	0.44
1:8:421:PRO:HG2	1:8:680:MET:HG2	1.99	0.44
1:9:60:LYS:HB2	1:9:63:THR:HG22	2.00	0.44
1:9:247:VAL:HG12	1:9:248:GLU:N	2.32	0.44
10:N:835:LEU:HB2	10:N:860:LEU:HD11	1.99	0.44
13:F:279:ILE:HD13	13:F:321:PHE:HE1	1.82	0.44
14:G:276:GLU:HB2	14:G:278:PHE:HD1	1.82	0.44
10:n:149:GLN:O	10:n:153:LYS:HG2	2.18	0.44
10:n:399:GLU:HB3	10:n:403:GLU:OE2	2.18	0.44
10:n:754:ASN:O	10:n:756:LEU:HD22	2.18	0.44
13:a:259:ALA:O	13:a:263:VAL:HG23	2.18	0.44
14:g:469:SER:OG	14:g:487:LEU:HB3	2.17	0.44
1:11:20:MET:HA	1:11:114:ILE:O	2.17	0.44
1:11:95:TYR:CG	1:11:105:ALA:HB3	2.53	0.44
1:19:138:LYS:O	1:19:287:MET:HG2	2.18	0.44
1:16:353:TYR:CE2	1:16:672:PRO:HB3	2.53	0.44
1:14:608:ILE:HG23	1:14:617:ILE:HG13	2.00	0.44
1:18:38:LYS:HD2	1:18:70:ASN:HA	1.99	0.44
1:1:41:THR:HB	1:1:64:VAL:HG11	1.99	0.43
1:1:43:ARG:HD3	1:3:132:SER:HB3	2.00	0.43
1:1:50:ILE:HB	1:1:57:ILE:HB	1.99	0.43
1:1:152:LEU:HG	1:1:356:ALA:HB2	1.99	0.43
4:E:54:LEU:HD23	4:E:54:LEU:HA	1.88	0.43
4:I:791:TYR:O	4:I:795:VAL:HG23	2.16	0.43
5:J:370:MET:HE1	5:J:371:LYS:NZ	2.33	0.43
8:Q:220:MET:HB2	8:Q:234:TRP:HD1	1.83	0.43
8:Q:230:LYS:HA	8:Q:270:PHE:HE1	1.82	0.43
4:e:106:THR:HG23	4:e:168:LEU:HD11	2.00	0.43
4:e:364:ARG:HH21	4:e:365:ARG:HH21	1.64	0.43
4:e:379:ILE:HG12	4:e:386:PRO:HB3	1.99	0.43
4:e:875:MET:SD	4:e:905:GLU:HG2	2.58	0.43
4:i:553:CYS:O	4:i:557:MET:HG2	2.18	0.43
1:z:38:LYS:HG2	1:z:98:PRO:HD3	2.00	0.43
1:2:345:LEU:HD23	1:2:667:ILE:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3:57:ILE:HG23	1:3:63:THR:CB	2.43	0.43
1:3:140:TRP:HD1	1:3:148:GLY:HA3	1.80	0.43
1:3:463:TRP:CZ3	1:3:550:VAL:HG13	2.53	0.43
1:3:482:ASN:HB3	1:3:485:GLN:HB2	2.00	0.43
1:4:550:VAL:HG11	1:4:579:PHE:CD1	2.53	0.43
1:5:21:VAL:HG13	1:5:80:VAL:HA	1.99	0.43
1:5:186:GLU:HG2	1:5:241:ARG:HH11	1.82	0.43
1:5:401:LEU:HB3	1:5:406:ASN:ND2	2.33	0.43
1:9:302:PRO:HA	1:9:670:ARG:HG2	1.99	0.43
1:9:624:LYS:HB3	1:9:627:GLY:HA2	2.00	0.43
10:N:769:LYS:HG2	10:N:799:HIS:CG	2.53	0.43
12:M:320:ARG:H	12:M:358:PRO:HD3	1.83	0.43
14:B:552:GLY:HA3	14:B:571:ARG:NE	2.33	0.43
13:F:1010:CYS:O	13:F:1038:ASN:HB3	2.18	0.43
10:n:516:PRO:O	10:n:519:ARG:HG2	2.17	0.43
10:n:805:HIS:HA	10:n:832:LEU:HA	1.99	0.43
10:n:907:LEU:O	10:n:911:LEU:HG	2.18	0.43
8:p:691:VAL:HG13	8:p:703:PHE:CE1	2.53	0.43
12:m:392:LYS:HE2	12:m:392:LYS:HB3	1.76	0.43
13:a:609:LYS:HD3	13:a:609:LYS:HA	1.72	0.43
13:a:698:ILE:HG22	13:a:746:LEU:HD11	2.00	0.43
14:b:392:GLN:NE2	14:b:433:ARG:HA	2.33	0.43
13:f:623:VAL:O	13:f:627:LEU:HG	2.18	0.43
13:f:979:THR:HG23	13:f:1008:VAL:HB	2.01	0.43
13:f:1149:ASP:CG	13:f:1152:ALA:HB2	2.43	0.43
1:15:21:VAL:HB	1:15:115:GLU:OE1	2.18	0.43
1:15:114:ILE:HG22	1:15:116:ILE:HG13	1.99	0.43
1:15:329:VAL:HG21	1:15:611:LEU:HD22	1.99	0.43
1:15:348:GLU:HB3	1:15:366:ASP:OD1	2.18	0.43
1:15:534:ILE:O	1:15:537:ILE:HG22	2.17	0.43
1:13:213:TRP:HE3	1:13:224:VAL:HG21	1.83	0.43
1:1:505:LYS:HD3	1:1:505:LYS:HA	1.83	0.43
3:D:13:LEU:HB2	3:D:74:HIS:HD2	1.82	0.43
3:D:55:PHE:CD2	3:D:62:ILE:HD11	2.53	0.43
4:E:493:TRP:HB3	4:E:496:LEU:HB3	2.00	0.43
4:E:555:PHE:CG	4:E:585:VAL:HG22	2.53	0.43
4:I:516:PHE:HB3	4:I:519:ARG:HB2	2.00	0.43
5:J:64:GLU:CD	5:J:65:THR:H	2.26	0.43
7:O:107:CYS:C	7:O:111:CYS:HB3	2.28	0.43
9:R:50:ARG:HH22	13:F:784:GLU:CG	2.30	0.43
9:R:67:VAL:HG11	9:R:76:TRP:HE1	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:463:MET:HE1	4:i:500:ILE:HG23	2.00	0.43
5:j:118:LYS:HD2	5:j:118:LYS:HA	1.84	0.43
5:j:314:GLU:HG3	5:j:336:SER:HB2	2.00	0.43
1:2:357:PRO:HA	1:2:678:TRP:CH2	2.53	0.43
1:3:153:VAL:HB	1:3:252:PHE:CE1	2.54	0.43
1:4:11:LEU:HD23	1:4:107:ALA:HB2	2.00	0.43
1:4:38:LYS:HD3	1:4:38:LYS:HA	1.65	0.43
1:7:237:PHE:CZ	1:7:243:GLU:HG3	2.53	0.43
1:8:373:LEU:HD12	1:8:374:GLU:H	1.82	0.43
1:9:365:LEU:HD13	1:9:389:LEU:HD23	1.99	0.43
1:12:356:ALA:HB1	1:12:357:PRO:HD2	2.00	0.43
11:L:121:ARG:O	11:L:125:GLU:OE1	2.35	0.43
13:A:630:TRP:O	13:A:634:ILE:HG13	2.17	0.43
13:A:737:CYS:HA	13:A:740:LEU:HD12	1.99	0.43
14:B:392:GLN:NE2	14:B:433:ARG:HA	2.33	0.43
13:F:233:PHE:CZ	13:F:245:ILE:HD12	2.53	0.43
13:F:246:ILE:HD13	13:F:380:LEU:HD21	2.00	0.43
13:F:841:LEU:HB2	13:F:846:TYR:CE1	2.53	0.43
14:G:292:HIS:CD2	14:G:317:LYS:HE3	2.53	0.43
14:G:392:GLN:HB2	14:G:405:GLY:O	2.18	0.43
14:G:460:LYS:HG3	14:G:461:VAL:H	1.83	0.43
10:n:43:TYR:CE1	11:l:327:ASP:HB2	2.53	0.43
10:n:159:PHE:HB2	10:n:206:LEU:HD13	2.00	0.43
10:n:488:CYS:O	10:n:492:THR:HG23	2.18	0.43
8:p:703:PHE:O	8:p:707:VAL:HG23	2.18	0.43
11:l:86:ARG:HE	11:l:88:ASP:HB3	1.83	0.43
12:m:31:ASP:HB3	12:m:35:SER:N	2.32	0.43
13:a:309:VAL:HA	13:a:312:ILE:HG12	1.98	0.43
13:a:951:ASN:O	13:a:980:MET:HB3	2.18	0.43
14:b:369:ILE:HG23	14:b:380:GLU:HG3	1.99	0.43
14:b:403:LEU:HG	14:b:413:ILE:HG23	1.99	0.43
14:b:552:GLY:HA3	14:b:571:ARG:NE	2.33	0.43
13:f:714:LEU:HD12	13:f:716:PRO:O	2.18	0.43
13:f:966:ARG:NH2	13:f:969:ASN:HD21	2.16	0.43
1:11:600:PRO:HB3	1:11:604:ASP:HB3	2.00	0.43
1:15:47:ARG:CB	1:15:81:ALA:HB3	2.47	0.43
1:15:160:VAL:HG22	1:15:388:TYR:HB3	2.00	0.43
1:16:34:PRO:HG2	1:16:37:CYS:HB2	1.99	0.43
1:16:75:ALA:C	1:16:76:LEU:HD12	2.42	0.43
1:14:182:ASN:HD22	1:14:242:LYS:HE2	1.83	0.43
1:14:303:LEU:H	1:14:670:ARG:HA	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:17:281:LEU:HD23	1:17:281:LEU:HA	1.88	0.43
1:18:514:THR:HG22	1:18:533:THR:HB	2.00	0.43
1:1:453:VAL:HG23	1:1:454:GLN:HG3	1.99	0.43
1:1:565:LEU:HD23	1:1:565:LEU:HA	1.84	0.43
4:E:405:MET:HE2	4:E:454:GLN:HG2	1.99	0.43
4:I:786:GLU:HA	4:I:789:TRP:CD1	2.52	0.43
5:J:384:MET:HB2	5:J:400:ASN:ND2	2.33	0.43
1:Z:173:ARG:HD2	5:j:89:THR:HG21	2.00	0.43
4:e:484:MET:SD	4:e:490:LYS:HB2	2.59	0.43
4:i:640:ILE:HG22	4:i:672:VAL:HG21	2.00	0.43
4:i:884:PRO:HB2	13:f:813:LYS:HZ2	1.83	0.43
6:k:18:VAL:HG22	6:k:38:ASP:OD1	2.17	0.43
8:q:224:ASN:HD22	8:q:232:GLY:HA3	1.83	0.43
1:z:174:GLU:HA	1:z:177:ASN:HB2	2.00	0.43
1:z:478:THR:CG2	1:z:489:ARG:HG2	2.48	0.43
1:z:482:ASN:ND2	1:z:485:GLN:HG2	2.30	0.43
1:3:119:GLU:HG2	1:3:131:PRO:HB3	2.00	0.43
1:3:275:CYS:HB3	1:4:546:GLN:HG3	2.00	0.43
1:4:303:LEU:H	1:4:670:ARG:HA	1.82	0.43
1:6:464:LEU:HD13	1:6:471:GLN:HB2	2.00	0.43
1:7:460:PHE:HB3	1:7:557:ASN:HD21	1.82	0.43
1:8:1:MET:SD	1:8:16:HIS:HB3	2.58	0.43
1:8:410:SER:HA	1:8:475:PHE:HE2	1.83	0.43
1:9:116:ILE:HD12	1:9:267:LEU:HD21	2.00	0.43
1:9:367:THR:HA	1:9:391:ARG:O	2.17	0.43
1:9:562:LYS:HB3	1:9:562:LYS:HE2	1.89	0.43
1:12:42:ILE:HG23	1:12:65:VAL:HB	2.01	0.43
10:N:349:ASN:HA	10:N:352:LYS:HB3	2.00	0.43
10:N:907:LEU:O	10:N:911:LEU:HG	2.18	0.43
8:P:599:LYS:HA	8:P:602:THR:HG22	1.99	0.43
8:P:724:VAL:HG13	8:P:762:ARG:H	1.83	0.43
8:P:770:ILE:O	8:P:774:LEU:HG	2.18	0.43
11:L:86:ARG:HE	11:L:88:ASP:HB3	1.83	0.43
8:p:21:ARG:CZ	8:p:338:LEU:HD22	2.48	0.43
11:l:388:MET:HE2	12:m:347:ASN:HA	2.00	0.43
12:m:320:ARG:H	12:m:358:PRO:HD3	1.83	0.43
13:a:275:MET:HE1	13:a:319:LEU:N	2.33	0.43
13:a:747:LYS:HG3	13:a:748:GLU:OE1	2.18	0.43
13:f:272:PHE:CE2	13:f:274:LYS:HB2	2.53	0.43
13:f:996:LYS:HE2	13:f:1022:CYS:HB3	2.01	0.43
14:g:350:LEU:O	14:g:358:LEU:HD12	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:11:152:LEU:HG	1:11:356:ALA:HB2	2.01	0.43
1:15:118:LEU:HD21	1:15:286:VAL:HG21	2.00	0.43
1:16:558:ARG:HH12	1:16:574:LEU:HD21	1.84	0.43
1:14:11:LEU:HD23	1:14:107:ALA:HB2	2.01	0.43
1:14:475:PHE:CE1	1:14:490:LEU:HD12	2.52	0.43
1:13:533:THR:HG23	1:13:536:GLN:H	1.83	0.43
1:17:658:ASN:HB2	1:17:661:ASP:OD2	2.19	0.43
1:1:109:LEU:HD21	1:1:111:LEU:HD21	2.01	0.43
1:1:341:GLN:O	1:1:344:TRP:HB3	2.19	0.43
1:1:470:ASP:HA	1:1:473:MET:O	2.18	0.43
3:D:11:VAL:HB	3:D:72:LEU:HD21	2.01	0.43
4:E:106:THR:HG23	4:E:168:LEU:HD11	2.00	0.43
4:E:853:LEU:HB2	4:E:880:ALA:HB1	1.99	0.43
2:H:95:PRO:HA	2:H:98:GLN:HE21	1.84	0.43
4:I:823:SER:HA	4:I:826:LEU:HD12	2.01	0.43
4:I:827:PRO:HG3	13:F:844:ILE:HD11	1.99	0.43
7:O:72:ARG:HD2	7:O:145:TYR:CD2	2.53	0.43
9:R:48:GLN:H	9:R:48:GLN:HG3	1.62	0.43
4:e:375:PHE:HZ	4:e:512:LEU:HD23	1.83	0.43
4:e:460:ILE:O	4:e:463:MET:HG3	2.18	0.43
2:h:30:ARG:O	13:f:391:LEU:HG	2.19	0.43
2:h:40:GLU:OE2	2:h:93:GLY:HA2	2.17	0.43
5:j:231:VAL:HG12	5:j:232:PHE:CD1	2.54	0.43
7:o:39:GLY:HA3	7:o:48:GLY:H	1.83	0.43
1:z:432:TYR:HD2	1:z:434:SER:HB3	1.82	0.43
1:2:7:LEU:HB3	1:2:27:LEU:HD12	1.99	0.43
1:2:29:ILE:HB	1:2:73:THR:O	2.18	0.43
1:2:213:TRP:CE3	1:2:215:GLN:HG2	2.53	0.43
1:3:633:GLU:O	1:3:636:CYS:HB2	2.18	0.43
1:5:190:SER:O	1:5:193:GLN:HG3	2.18	0.43
1:5:348:GLU:HB3	1:5:366:ASP:OD1	2.18	0.43
1:6:115:GLU:OE2	1:6:117:SER:HB3	2.17	0.43
1:8:618:PRO:HB3	1:8:655:TYR:CE2	2.54	0.43
1:9:117:SER:O	1:9:183:VAL:HA	2.18	0.43
1:12:38:LYS:HA	1:12:69:MET:HB3	2.00	0.43
10:N:80:PRO:HB3	10:N:226:GLN:CD	2.44	0.43
10:N:169:PHE:HB2	10:N:171:PHE:CZ	2.52	0.43
10:N:341:MET:HA	10:N:341:MET:HE3	2.00	0.43
12:M:19:LYS:HE3	12:M:19:LYS:HB3	1.83	0.43
14:G:412:ARG:HD3	14:G:421:ILE:HD13	2.00	0.43
10:n:850:LEU:HD22	10:n:863:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:n:900:THR:HA	10:n:926:ALA:HB3	2.01	0.43
11:l:183:TYR:CE2	11:l:392:LYS:HG3	2.50	0.43
13:a:297:LEU:HD22	13:a:350:ILE:HD12	2.01	0.43
13:a:739:VAL:O	13:a:743:LEU:HG	2.19	0.43
13:a:804:TYR:HA	13:a:833:THR:OG1	2.19	0.43
13:a:1090:LEU:HD21	13:a:1092:LEU:HG	2.00	0.43
13:f:293:SER:O	13:f:297:LEU:HG	2.19	0.43
13:f:1010:CYS:O	13:f:1038:ASN:HB3	2.18	0.43
14:g:261:LEU:HD23	14:g:261:LEU:HA	1.88	0.43
14:g:292:HIS:CD2	14:g:317:LYS:HE3	2.53	0.43
1:11:341:GLN:O	1:11:344:TRP:HB3	2.18	0.43
1:11:470:ASP:HA	1:11:473:MET:O	2.18	0.43
1:11:516:PHE:HB3	1:11:519:ILE:HG22	2.00	0.43
1:19:5:ASN:HA	1:19:25:ILE:HG12	2.00	0.43
1:15:42:ILE:HD13	1:15:52:ILE:HG21	2.00	0.43
1:15:348:GLU:HG3	1:15:367:THR:O	2.19	0.43
1:15:619:LYS:HB3	1:15:621:PHE:CE2	2.53	0.43
1:16:64:VAL:HB	1:16:66:TRP:CD1	2.53	0.43
1:16:411:PRO:HG2	1:16:488:PHE:CG	2.52	0.43
1:16:498:CYS:SG	1:16:578:LEU:HG	2.59	0.43
1:14:279:ILE:HB	1:13:549:TYR:HE1	1.83	0.43
1:14:482:ASN:OD1	1:14:485:GLN:HB2	2.19	0.43
1:13:42:ILE:HD11	1:13:50:ILE:HD13	2.00	0.43
1:17:11:LEU:HG	1:17:32:CYS:HB2	2.01	0.43
1:18:188:PRO:O	1:18:192:LEU:HG	2.19	0.43
4:E:379:ILE:HG12	4:E:386:PRO:HB3	2.00	0.43
4:E:460:ILE:O	4:E:463:MET:HG3	2.18	0.43
4:I:640:ILE:HG22	4:I:672:VAL:HG21	2.00	0.43
5:J:118:LYS:HZ3	5:J:136:SER:HB3	1.84	0.43
7:O:32:HIS:HB2	7:O:55:HIS:CE1	2.54	0.43
2:c:129:PHE:CE1	3:d:101:MET:HE3	2.54	0.43
3:d:13:LEU:HB2	3:d:74:HIS:HD2	1.81	0.43
4:e:767:LEU:HD11	4:e:802:LEU:HD22	1.99	0.43
2:h:95:PRO:HA	2:h:98:GLN:HE21	1.84	0.43
5:j:112:THR:HA	5:j:159:ASP:CB	2.49	0.43
5:j:305:ARG:HG3	5:j:308:PRO:CG	2.49	0.43
9:r:69:GLY:C	9:r:70:LEU:HD12	2.43	0.43
1:z:351:PHE:CD1	1:z:669:ASN:HB2	2.53	0.43
1:4:61:GLU:HB3	1:5:129:ASP:CG	2.44	0.43
1:4:130:MET:O	1:5:43:ARG:NH2	2.50	0.43
1:5:261:ILE:CG1	1:5:288:PHE:HB2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:619:LYS:HB3	1:5:621:PHE:CE2	2.54	0.43
1:6:101:GLU:HB2	1:7:679:LYS:HG2	2.00	0.43
1:6:353:TYR:CE2	1:6:672:PRO:HB3	2.53	0.43
1:6:398:VAL:HB	1:6:591:GLN:HE22	1.83	0.43
1:12:618:PRO:HB3	1:12:655:TYR:CE2	2.53	0.43
10:N:488:CYS:O	10:N:492:THR:HG23	2.18	0.43
10:N:797:LEU:HD21	10:N:830:CYS:HA	2.01	0.43
8:P:691:VAL:HG22	8:P:707:VAL:HG22	2.01	0.43
13:A:344:TRP:HD1	13:A:345:LYS:HG3	1.84	0.43
13:A:1012:LEU:HD12	13:A:1016:CYS:SG	2.57	0.43
13:F:272:PHE:CE2	13:F:274:LYS:HB2	2.53	0.43
13:F:494:LEU:HD12	13:F:497:MET:HE2	1.99	0.43
14:G:369:ILE:HG23	14:G:380:GLU:HG3	2.01	0.43
10:n:336:GLU:OE1	10:n:353:HIS:CE1	2.71	0.43
10:n:356:THR:O	10:n:360:ILE:HG12	2.19	0.43
11:l:258:VAL:H	11:l:266:PHE:HZ	1.66	0.43
12:m:7:ILE:HB	12:m:135:LEU:HG	2.01	0.43
12:m:55:THR:O	12:m:58:LYS:HG2	2.17	0.43
13:a:710:ASN:HB2	1:11:525:LEU:HD23	2.01	0.43
14:b:490:GLY:O	14:b:509:LYS:HG2	2.19	0.43
13:f:597:ARG:HD2	13:f:655:GLU:HG3	2.00	0.43
14:g:311:CYS:HB2	14:g:316:ILE:HG12	1.99	0.43
14:g:434:ASN:HB3	14:g:474:LEU:HB2	2.00	0.43
1:11:98:PRO:HD3	1:11:104:THR:HA	2.00	0.43
1:11:640:GLU:HG3	1:11:641:PRO:HD3	2.00	0.43
1:19:41:THR:HA	1:19:65:VAL:O	2.19	0.43
1:19:241:ARG:HA	1:19:241:ARG:HD3	1.84	0.43
1:19:652:PHE:CZ	1:19:656:LEU:HD12	2.54	0.43
1:15:3:PHE:CE1	1:15:20:MET:HG3	2.54	0.43
1:15:47:ARG:HH22	1:15:88:GLU:HB3	1.82	0.43
1:15:595:LYS:HG2	1:15:597:PHE:CE1	2.53	0.43
1:16:124:ARG:NH1	1:16:148:GLY:H	2.17	0.43
1:13:431:PHE:HB3	1:13:460:PHE:CD1	2.53	0.43
1:13:493:ALA:HB1	1:13:577:GLN:HB3	2.00	0.43
1:17:464:LEU:HD22	1:17:471:GLN:CD	2.43	0.43
1:18:359:LYS:HD3	1:18:360:THR:H	1.84	0.43
1:18:620:PRO:O	1:18:621:PHE:C	2.62	0.43
1:1:15:THR:HB	1:1:109:LEU:HD13	2.00	0.43
1:1:296:MET:HE1	1:1:351:PHE:C	2.43	0.43
3:D:32:TRP:CD2	3:D:70:HIS:HA	2.54	0.43
4:E:247:ASP:HB2	4:E:266:LYS:NZ	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:484:MET:SD	4:E:490:LYS:HB2	2.59	0.43
4:E:821:CYS:HA	4:E:824:LEU:HB2	2.01	0.43
4:I:580:TYR:CE2	4:I:584:ILE:HD11	2.54	0.43
5:J:154:LEU:HD11	5:J:163:ALA:HB1	1.99	0.43
1:Z:50:ILE:HG12	1:Z:78:ARG:H	1.82	0.43
3:d:6:ARG:NH1	3:d:76:ASN:HA	2.33	0.43
3:d:50:LEU:HD22	3:d:109:CYS:SG	2.59	0.43
4:e:125:PHE:HZ	4:e:168:LEU:HD23	1.83	0.43
4:e:204:SER:HA	4:e:212:ALA:HB2	2.00	0.43
5:j:302:MET:HE1	5:j:311:THR:HB	2.00	0.43
5:j:305:ARG:O	5:j:308:PRO:HD2	2.18	0.43
5:j:319:LYS:HD3	5:j:330:LYS:HE2	1.99	0.43
5:j:384:MET:HB2	5:j:400:ASN:ND2	2.33	0.43
6:k:47:LEU:HD13	6:k:50:VAL:HB	1.99	0.43
7:o:32:HIS:HB2	7:o:55:HIS:CE1	2.54	0.43
1:2:618:PRO:HB3	1:2:655:TYR:CE2	2.53	0.43
1:3:546:GLN:O	1:3:550:VAL:HG23	2.19	0.43
1:4:43:ARG:NH2	1:5:129:ASP:H	2.16	0.43
1:4:584:LEU:HG	1:4:587:VAL:HG21	1.99	0.43
1:6:24:GLU:HG2	1:6:76:LEU:HD23	2.01	0.43
1:6:498:CYS:SG	1:6:578:LEU:HG	2.58	0.43
1:6:501:LEU:O	1:6:505:LYS:HG2	2.18	0.43
1:7:92:LEU:HD22	1:7:108:VAL:HG22	1.99	0.43
1:9:302:PRO:HG3	1:9:611:LEU:HA	1.99	0.43
1:9:550:VAL:HG11	1:9:579:PHE:CD2	2.53	0.43
1:9:652:PHE:CZ	1:9:656:LEU:HD12	2.54	0.43
11:L:258:VAL:H	11:L:266:PHE:HZ	1.66	0.43
12:M:32:PRO:HB3	12:M:81:PHE:CE1	2.53	0.43
13:A:236:TYR:CG	13:A:237:GLN:N	2.87	0.43
13:A:275:MET:HE1	13:A:319:LEU:N	2.33	0.43
13:A:698:ILE:HG22	13:A:746:LEU:HD11	2.01	0.43
14:B:296:LEU:HD22	14:B:310:THR:HB	1.99	0.43
14:B:403:LEU:HG	14:B:413:ILE:HG23	2.00	0.43
13:F:496:MET:HE2	13:F:517:TYR:HE1	1.83	0.43
13:F:964:ALA:HB2	13:F:991:LEU:HD23	1.99	0.43
13:F:1021:ALA:HA	13:F:1024:ILE:HG12	2.00	0.43
10:n:908:LEU:HD22	10:n:938:VAL:HG21	2.00	0.43
12:m:31:ASP:HB3	12:m:35:SER:H	1.83	0.43
13:f:654:PHE:CG	13:f:684:VAL:HG12	2.53	0.43
13:f:856:THR:CG2	13:f:858:ARG:HH22	2.32	0.43
13:f:1151:TYR:CZ	14:g:268:PRO:HB3	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:g:412:ARG:HD3	14:g:421:ILE:HD13	2.00	0.43
1:11:255:PRO:HG3	1:11:446:GLU:CD	2.44	0.43
1:11:562:LYS:HG3	1:11:567:LEU:O	2.18	0.43
1:19:321:THR:O	1:19:325:GLU:OE1	2.37	0.43
1:15:408:MET:HB2	1:15:426:LEU:HD12	2.00	0.43
1:16:316:PHE:HA	1:16:649:ILE:HG21	2.00	0.43
1:16:639:LEU:HD22	1:16:644:LEU:HD12	2.00	0.43
1:14:268:VAL:HG13	1:14:279:ILE:C	2.43	0.43
4:E:345:VAL:HG22	4:E:369:LEU:HD22	2.01	0.43
4:E:843:GLU:HA	4:E:846:CYS:HB2	1.99	0.43
2:H:71:MET:O	2:H:72:CYS:C	2.61	0.43
4:I:854:LYS:HB3	4:I:854:LYS:HE3	1.68	0.43
5:J:30:LYS:C	5:J:32:TRP:H	2.26	0.43
1:Z:124:ARG:NH1	1:Z:678:TRP:HB2	2.33	0.43
2:c:56:ARG:NH1	2:c:117:LEU:HD21	2.34	0.43
3:d:48:PRO:HD3	3:d:83:ARG:HA	2.01	0.43
4:i:397:LEU:HD11	4:i:430:LEU:HD13	1.99	0.43
8:q:229:ARG:HD3	8:q:269:MET:HB2	2.00	0.43
1:2:464:LEU:CD2	1:2:471:GLN:HB2	2.48	0.43
1:3:7:LEU:HD12	1:3:25:ILE:HG21	2.01	0.43
1:3:119:GLU:HB3	1:3:128:LEU:HD12	2.00	0.43
1:3:425:VAL:O	1:3:456:PRO:HA	2.19	0.43
1:4:268:VAL:HG13	1:4:279:ILE:C	2.43	0.43
1:5:47:ARG:CB	1:5:81:ALA:HB3	2.48	0.43
1:5:575:ILE:HG21	1:5:605:MET:HE1	1.99	0.43
1:6:198:ILE:HG23	1:6:231:VAL:HG13	2.00	0.43
1:6:495:PRO:HG3	1:6:579:PHE:HD2	1.84	0.43
1:7:546:GLN:OE1	1:7:580:CYS:HA	2.17	0.43
1:7:574:LEU:HD23	1:7:574:LEU:H	1.84	0.43
1:8:3:PHE:HD1	1:8:281:LEU:HD23	1.83	0.43
1:8:43:ARG:HB2	1:8:62:ASP:HB3	1.99	0.43
1:8:459:LEU:HD21	1:8:561:LEU:HD21	2.00	0.43
1:9:175:ILE:HD13	1:9:221:TYR:CZ	2.54	0.43
1:12:357:PRO:HA	1:12:678:TRP:CH2	2.53	0.43
1:12:401:LEU:HD13	1:12:438:ARG:HG3	2.00	0.43
10:N:38:ILE:HG22	10:N:42:TRP:CE3	2.54	0.43
10:N:149:GLN:O	10:N:153:LYS:HG2	2.19	0.43
10:N:164:PHE:CE2	10:N:218:LEU:HB2	2.53	0.43
10:N:178:LEU:HD23	10:N:190:PHE:CE1	2.54	0.43
10:N:351:ARG:C	10:N:353:HIS:H	2.27	0.43
10:N:750:CYS:SG	10:N:779:VAL:HB	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M:70:PRO:HG3	12:M:94:GLN:NE2	2.34	0.43
14:B:492:HIS:HB2	14:B:506:VAL:HB	2.01	0.43
13:F:405:LEU:O	13:F:408:ILE:HG12	2.19	0.43
10:n:750:CYS:SG	10:n:779:VAL:HB	2.58	0.43
10:n:863:LEU:H	10:n:889:VAL:HG13	1.84	0.43
8:p:35:VAL:HG23	8:p:36:PHE:H	1.84	0.43
13:a:375:THR:HB	13:a:591:ARG:HG2	2.01	0.43
13:a:633:LEU:HD23	13:a:636:GLN:HE21	1.84	0.43
14:b:171:MET:HE2	14:b:171:MET:N	2.34	0.43
13:f:494:LEU:HA	13:f:497:MET:HE2	1.99	0.43
1:11:298:SER:HA	1:11:670:ARG:NH1	2.34	0.43
1:11:453:VAL:HG23	1:11:454:GLN:HG3	2.00	0.43
1:11:615:LEU:HD22	1:11:639:LEU:HD21	1.99	0.43
1:19:422:LEU:HD21	1:19:675:PHE:HB3	2.01	0.43
1:15:181:MET:HE3	1:15:245:PHE:HB2	1.99	0.43
1:15:408:MET:HE3	1:15:469:MET:HB2	2.01	0.43
1:16:464:LEU:HD13	1:16:471:GLN:HB2	2.00	0.43
1:18:558:ARG:NH2	1:18:572:ILE:HG21	2.34	0.43
3:D:36:GLU:HG3	3:D:37:CYS:N	2.32	0.43
4:E:875:MET:SD	4:E:905:GLU:HG2	2.58	0.43
6:K:36:MET:HE1	6:K:45:VAL:HA	2.00	0.43
1:Z:134:LYS:HA	1:Z:137:LYS:HE2	2.01	0.43
4:e:927:GLU:O	4:e:931:MET:HG3	2.19	0.43
1:2:316:PHE:HB2	1:2:651:ASP:HB2	2.00	0.43
1:3:398:VAL:HG11	1:3:587:VAL:HG12	2.00	0.43
1:3:624:LYS:HA	1:3:629:CYS:SG	2.59	0.43
1:4:40:PHE:CD1	1:4:69:MET:HE2	2.54	0.43
1:5:33:ALA:HB1	1:5:69:MET:SD	2.58	0.43
1:5:280:PRO:HD3	1:6:432:TYR:CE1	2.54	0.43
1:5:280:PRO:HG2	1:6:431:PHE:CD2	2.54	0.43
1:5:351:PHE:CZ	1:5:669:ASN:HB2	2.54	0.43
1:6:136:ALA:HB1	1:6:147:TRP:NE1	2.33	0.43
1:6:140:TRP:CE3	1:6:289:ARG:HD2	2.53	0.43
1:7:262:SER:HB3	1:7:287:MET:SD	2.57	0.43
1:7:449:TYR:CZ	1:7:456:PRO:HG3	2.54	0.43
1:8:87:ASP:HB3	1:8:110:PHE:CD1	2.54	0.43
1:8:359:LYS:HD3	1:8:360:THR:H	1.83	0.43
1:8:411:PRO:O	1:8:413:VAL:HG13	2.18	0.43
1:9:179:SER:HB2	1:9:247:VAL:H	1.84	0.43
1:9:240:ARG:NH1	1:9:242:LYS:H	2.16	0.43
1:12:30:SER:HA	1:12:33:ALA:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:12:174:GLU:HA	1:12:177:ASN:ND2	2.34	0.43
10:N:43:TYR:CE1	11:L:327:ASP:HB2	2.53	0.43
10:N:418:LEU:HB3	10:N:470:LEU:HD11	1.99	0.43
10:N:469:GLY:HA2	10:N:472:LYS:HD2	1.99	0.43
10:N:499:THR:O	10:N:503:MET:HG2	2.18	0.43
10:N:765:SER:HA	10:N:796:ALA:HB2	2.00	0.43
11:L:210:ILE:HD11	11:L:299:MET:H	1.82	0.43
12:M:132:GLY:HA2	12:M:163:ILE:O	2.19	0.43
14:B:539:MET:HB3	14:B:540:PRO:HD3	2.01	0.43
13:F:623:VAL:O	13:F:627:LEU:HG	2.18	0.43
13:F:808:GLY:O	13:F:810:THR:HG23	2.17	0.43
13:F:812:MET:O	13:F:813:LYS:HE2	2.19	0.43
10:n:769:LYS:HG2	10:n:799:HIS:CG	2.54	0.43
10:n:797:LEU:HD21	10:n:830:CYS:HA	2.01	0.43
10:n:849:ASP:O	10:n:853:VAL:HG23	2.19	0.43
10:n:911:LEU:HA	10:n:946:MET:HE1	2.01	0.43
8:p:19:LEU:HB2	8:p:23:THR:OG1	2.18	0.43
8:p:58:LEU:HD22	8:p:63:VAL:HG21	2.01	0.43
8:p:320:ARG:HH12	8:p:323:ALA:C	2.27	0.43
12:m:70:PRO:HG3	12:m:94:GLN:NE2	2.34	0.43
12:m:132:GLY:HA2	12:m:163:ILE:O	2.19	0.43
13:f:405:LEU:O	13:f:408:ILE:HG12	2.19	0.43
13:f:533:LEU:HG	13:f:544:TYR:HB3	2.01	0.43
13:f:803:LYS:HA	13:f:831:VAL:HA	2.00	0.43
1:19:340:ARG:HD2	1:19:344:TRP:CD2	2.53	0.43
1:19:581:LEU:HA	1:19:598:ALA:HA	2.01	0.43
1:19:618:PRO:HB3	1:19:655:TYR:CE2	2.54	0.43
1:15:252:PHE:HD2	1:15:292:PRO:HA	1.84	0.43
1:16:213:TRP:CE2	1:16:215:GLN:HA	2.54	0.43
1:14:1:MET:HE3	1:14:18:LEU:HD11	2.01	0.43
1:14:116:ILE:HD12	1:14:267:LEU:HD22	2.00	0.43
1:18:533:THR:HG22	1:18:536:GLN:HG2	2.00	0.43
1:1:79:MET:HB3	1:1:79:MET:HE2	1.70	0.43
1:1:618:PRO:HB3	1:1:655:TYR:CE2	2.54	0.43
2:C:71:MET:HG2	4:E:12:TRP:CZ3	2.52	0.43
4:E:21:GLU:HA	4:E:24:LYS:HE2	2.01	0.43
7:O:1:MET:HE3	8:P:736:CYS:SG	2.58	0.43
3:d:11:VAL:HB	3:d:72:LEU:HD21	2.01	0.43
4:e:345:VAL:HG22	4:e:369:LEU:HD22	2.01	0.43
4:i:516:PHE:HB3	4:i:519:ARG:HB2	2.01	0.43
4:i:739:ILE:HD13	4:i:739:ILE:HA	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:860:LYS:HA	4:i:888:LEU:HA	2.01	0.43
5:j:64:GLU:OE1	5:j:68:GLN:HB3	2.19	0.43
1:3:213:TRP:HE3	1:3:224:VAL:HG21	1.83	0.43
1:4:91:VAL:HB	1:4:109:LEU:HB3	2.01	0.43
1:4:100:GLN:HG3	1:4:102:VAL:O	2.19	0.43
1:5:345:LEU:HA	1:5:349:MET:CE	2.46	0.43
1:6:96:PHE:CE1	1:6:103:PRO:HA	2.54	0.43
1:6:213:TRP:CE2	1:6:215:GLN:HA	2.54	0.43
1:6:550:VAL:HG21	1:6:579:PHE:HB3	2.01	0.43
1:7:369:ARG:C	1:7:396:HIS:HB2	2.43	0.43
1:7:463:TRP:CD1	1:7:553:CYS:HG	2.36	0.43
1:8:197:LEU:HB3	1:8:265:LEU:HD11	2.01	0.43
1:9:37:CYS:HA	1:9:97:CYS:HA	2.01	0.43
1:9:211:VAL:HB	1:9:225:VAL:HB	2.00	0.43
1:9:253:PRO:HG2	1:9:292:PRO:HB3	2.00	0.43
1:9:257:PHE:HE2	1:9:290:VAL:HG21	1.84	0.43
1:12:11:LEU:HD23	1:12:107:ALA:HB2	2.01	0.43
10:N:115:HIS:CE1	10:N:153:LYS:HZ1	2.37	0.43
10:N:418:LEU:HD11	10:N:463:LEU:HD22	2.01	0.43
10:N:687:ARG:NH1	10:N:688:SER:HB3	2.34	0.43
8:P:311:CYS:HB2	8:P:319:CYS:SG	2.58	0.43
8:P:703:PHE:O	8:P:707:VAL:HG23	2.19	0.43
12:M:8:GLN:CD	12:M:17:GLY:HA3	2.43	0.43
12:M:172:SER:HB3	12:M:204:ASN:HB2	2.00	0.43
12:M:293:MET:SD	12:M:367:PHE:HB2	2.59	0.43
13:A:633:LEU:HD23	13:A:636:GLN:HE21	1.83	0.43
13:F:216:SER:HB2	13:F:219:LEU:HB2	2.00	0.43
13:F:307:ASP:O	13:F:311:LYS:HE3	2.19	0.43
13:F:996:LYS:HE2	13:F:1022:CYS:HB3	2.01	0.43
10:n:687:ARG:NH1	10:n:688:SER:HB3	2.34	0.43
10:n:919:GLN:HB3	10:n:948:PHE:HD2	1.82	0.43
12:m:119:VAL:O	12:m:123:GLU:HG2	2.19	0.43
14:b:365:LEU:HA	14:b:365:LEU:HD23	1.85	0.43
14:b:538:SER:HB2	14:b:545:LEU:HD21	2.01	0.43
13:f:892:ILE:HG22	13:f:894:ASP:H	1.84	0.43
14:g:488:ALA:O	14:g:512:THR:HG22	2.19	0.43
1:11:141:MET:HE1	1:11:147:TRP:CZ2	2.54	0.43
1:19:198:ILE:HG12	1:19:233:LEU:HD13	2.00	0.43
1:19:351:PHE:HE2	1:19:667:ILE:HG23	1.84	0.43
1:15:15:THR:O	1:15:109:LEU:HD12	2.19	0.43
1:17:234:LEU:HD23	1:17:237:PHE:CZ	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:17:329:VAL:HG21	1:17:611:LEU:HD23	2.01	0.43
1:18:1:MET:SD	1:18:18:LEU:HD11	2.59	0.43
1:18:42:ILE:O	1:18:64:VAL:HG22	2.18	0.43
1:18:48:ILE:C	1:18:59:GLY:HA2	2.44	0.43
1:18:49:LEU:HG	1:18:58:ALA:HA	2.01	0.43
1:18:170:GLU:HB3	1:18:174:GLU:CG	2.48	0.43
1:18:401:LEU:HB3	1:18:406:ASN:HD22	1.84	0.43
1:18:565:LEU:HD23	1:18:565:LEU:HA	1.84	0.43
4:E:536:SER:HA	4:E:542:GLN:CD	2.44	0.43
4:E:599:LEU:HD12	4:E:600:SER:H	1.84	0.43
4:I:626:CYS:SG	4:I:652:VAL:HG12	2.59	0.43
5:J:231:VAL:HG12	5:J:232:PHE:CD1	2.54	0.43
7:O:39:GLY:HA3	7:O:48:GLY:H	1.83	0.43
4:e:305:MET:HE2	4:e:323:PHE:HA	2.01	0.43
4:e:536:SER:HA	4:e:542:GLN:CD	2.44	0.43
4:e:557:MET:HG3	4:e:559:ASP:HB2	2.01	0.43
4:i:414:LYS:HD2	4:i:444:ASN:HA	2.00	0.43
5:j:154:LEU:HD12	5:j:164:VAL:O	2.19	0.43
8:q:235:TYR:CZ	8:q:257:LEU:HD23	2.54	0.43
1:z:181:MET:HE3	1:z:247:VAL:HG21	2.00	0.43
1:z:555:SER:HA	1:z:558:ARG:HG2	2.01	0.43
1:3:118:LEU:HD22	1:3:183:VAL:HG22	2.00	0.43
1:4:54:SER:H	1:4:67:ARG:HH22	1.67	0.43
1:5:143:GLY:HA2	1:5:681:THR:OG1	2.18	0.43
1:5:348:GLU:HG3	1:5:367:THR:O	2.19	0.43
1:6:505:LYS:HA	1:6:505:LYS:HD3	1.80	0.43
1:7:178:LEU:HD22	1:7:248:GLU:HB3	2.00	0.43
1:7:316:PHE:HD1	1:7:649:ILE:HG21	1.83	0.43
1:8:48:ILE:HD11	1:8:89:ASP:HB3	2.01	0.43
1:8:92:LEU:HA	1:8:107:ALA:O	2.19	0.43
1:8:188:PRO:O	1:8:192:LEU:HG	2.19	0.43
1:8:296:MET:HE3	1:8:297:PRO:HD2	2.01	0.43
1:9:617:ILE:O	1:9:648:PHE:HA	2.19	0.43
10:N:351:ARG:C	10:N:353:HIS:N	2.71	0.43
10:N:850:LEU:HD22	10:N:863:LEU:HD11	2.00	0.43
13:A:234:LYS:HD3	13:A:234:LYS:HA	1.87	0.43
13:A:739:VAL:O	13:A:743:LEU:HG	2.19	0.43
13:A:871:VAL:O	13:A:875:ILE:HG13	2.19	0.43
14:B:443:TRP:HD1	14:B:451:LEU:HD11	1.82	0.43
13:F:714:LEU:HD12	13:F:716:PRO:O	2.19	0.43
13:F:803:LYS:HA	13:F:831:VAL:HA	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:155:PRO:HG3	14:G:287:VAL:O	2.19	0.43
10:n:608:LYS:HE3	10:n:634:HIS:CD2	2.54	0.43
8:p:320:ARG:NH1	8:p:323:ALA:HB3	2.34	0.43
8:p:599:LYS:HA	8:p:602:THR:HG22	1.99	0.43
8:p:670:LEU:HD13	8:p:695:LEU:HD22	2.00	0.43
12:m:172:SER:HB3	12:m:204:ASN:HB2	2.01	0.43
13:a:494:LEU:HA	13:a:519:LEU:HD11	2.01	0.43
13:a:1128:ALA:HA	13:a:1131:ARG:HD2	2.01	0.43
13:f:857:THR:HG22	13:f:859:LEU:N	2.32	0.43
14:g:532:ASN:HB3	14:g:550:GLU:O	2.19	0.43
1:11:529:ARG:HE	1:11:601:TYR:HA	1.84	0.43
1:19:118:LEU:HD11	1:19:181:MET:CG	2.49	0.43
1:15:280:PRO:HG2	1:16:431:PHE:CD2	2.54	0.43
1:16:115:GLU:OE2	1:16:117:SER:HB3	2.18	0.43
1:16:617:ILE:O	1:16:648:PHE:HA	2.19	0.43
1:14:137:LYS:O	1:14:287:MET:HB2	2.18	0.43
1:13:302:PRO:HG3	1:13:611:LEU:HA	2.01	0.43
1:17:546:GLN:HG2	1:17:581:LEU:HG	2.01	0.43
1:18:488:PHE:CE2	1:18:567:LEU:HD21	2.54	0.43
1:18:529:ARG:NH2	1:18:601:TYR:HA	2.31	0.43
1:1:298:SER:HA	1:1:670:ARG:NH1	2.34	0.42
2:C:56:ARG:NH1	2:C:117:LEU:HD21	2.34	0.42
4:E:874:VAL:HG11	4:E:898:ILE:HG23	2.01	0.42
5:J:223:LEU:HD23	5:J:223:LEU:HA	1.84	0.42
1:Z:37:CYS:SG	1:Z:97:CYS:HB3	2.59	0.42
1:Z:276:ILE:HD11	1:9:545:GLU:HB3	2.01	0.42
2:h:49:MET:HE1	2:h:105:LEU:HD23	2.01	0.42
4:i:183:ALA:HA	4:i:225:LEU:O	2.17	0.42
4:i:737:GLY:O	4:i:741:MET:HG3	2.18	0.42
5:j:107:SER:HA	5:j:112:THR:HG21	2.01	0.42
5:j:223:LEU:HD23	5:j:223:LEU:HA	1.83	0.42
1:z:186:GLU:HG2	1:z:241:ARG:HB3	2.01	0.42
1:z:454:GLN:O	1:z:456:PRO:HD3	2.19	0.42
1:2:33:ALA:HB1	1:2:69:MET:CE	2.48	0.42
1:2:567:LEU:HD23	1:2:567:LEU:HA	1.81	0.42
1:2:602:PHE:HB2	1:2:603:PRO:HD2	2.01	0.42
1:3:438:ARG:HH21	1:3:462:ASP:HA	1.83	0.42
1:5:153:VAL:HG21	1:5:252:PHE:CE2	2.54	0.42
1:7:667:ILE:HG22	1:7:668:ILE:N	2.34	0.42
1:8:295:PHE:HB3	1:8:409:VAL:HG21	2.01	0.42
1:8:498:CYS:HB2	1:8:577:GLN:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:350:ALA:HA	1:9:667:ILE:HD11	2.00	0.42
10:N:849:ASP:O	10:N:853:VAL:HG23	2.19	0.42
8:P:691:VAL:HG13	8:P:703:PHE:CE1	2.54	0.42
13:F:597:ARG:HD2	13:F:655:GLU:HG3	2.01	0.42
10:n:86:GLN:OE1	10:n:229:LYS:HG2	2.19	0.42
10:n:243:HIS:HA	10:n:256:ILE:HD11	2.01	0.42
10:n:847:CYS:HB3	10:n:878:LEU:HG	2.00	0.42
8:p:591:PRO:HB3	8:p:597:GLU:CD	2.44	0.42
11:l:99:ASN:HA	11:l:142:GLY:H	1.84	0.42
13:a:898:LEU:HB2	13:a:924:ASN:HB2	2.01	0.42
14:b:154:GLU:HB3	14:b:155:PRO:HD3	2.01	0.42
13:f:378:GLU:HA	13:f:381:LYS:NZ	2.34	0.42
13:f:535:GLN:HA	13:f:543:CYS:O	2.19	0.42
14:g:155:PRO:HG3	14:g:287:VAL:O	2.19	0.42
1:11:516:PHE:HB3	1:11:519:ILE:CG2	2.49	0.42
1:19:296:MET:HE3	1:19:671:VAL:O	2.19	0.42
1:19:517:GLU:HG3	1:19:624:LYS:HD2	1.99	0.42
1:15:280:PRO:HD3	1:16:432:TYR:CE1	2.54	0.42
1:16:101:GLU:H	1:17:679:LYS:NZ	2.17	0.42
1:16:136:ALA:HB1	1:16:147:TRP:NE1	2.34	0.42
1:16:584:LEU:HB2	1:16:597:PHE:CE2	2.54	0.42
1:16:595:LYS:HD3	1:16:597:PHE:CE1	2.54	0.42
1:14:502:PHE:CD2	1:14:534:ILE:HG12	2.53	0.42
1:14:546:GLN:HG3	1:13:275:CYS:HB3	2.00	0.42
1:13:391:ARG:HD2	1:13:392:GLN:H	1.83	0.42
1:17:27:LEU:O	1:17:74:VAL:HA	2.18	0.42
2:C:119:ARG:O	2:C:123:VAL:HB	2.19	0.42
4:E:557:MET:HG3	4:E:559:ASP:HB2	2.01	0.42
2:H:30:ARG:O	13:F:391:LEU:HG	2.19	0.42
4:I:904:GLU:HG3	9:R:57:TRP:CG	2.54	0.42
7:O:62:PHE:CZ	8:P:740:SER:HB3	2.54	0.42
8:Q:207:VAL:HG21	8:Q:297:LEU:HD13	2.01	0.42
1:Z:141:MET:HE2	1:Z:147:TRP:CZ2	2.54	0.42
1:Z:382:LEU:HD11	1:Z:388:TYR:HD2	1.84	0.42
1:Z:549:TYR:CE1	1:9:279:ILE:HD13	2.54	0.42
1:Z:629:CYS:HB3	1:Z:632:GLU:HG3	2.01	0.42
4:e:114:ASN:HB2	4:e:117:ILE:HD12	2.00	0.42
4:e:236:TRP:CE3	4:e:238:LEU:HD11	2.54	0.42
4:e:764:CYS:SG	4:e:791:TYR:HB3	2.60	0.42
4:i:580:TYR:CE2	4:i:584:ILE:HD11	2.54	0.42
5:j:258:TYR:HE1	5:j:284:SER:HB3	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:69:MET:SD	1:z:69:MET:O	2.77	0.42
1:z:102:VAL:HG23	1:z:102:VAL:O	2.19	0.42
1:z:138:LYS:HE2	1:z:285:THR:HB	2.00	0.42
1:z:619:LYS:HG2	1:z:621:PHE:CD1	2.55	0.42
1:2:131:PRO:HG3	1:2:137:LYS:HD3	2.00	0.42
1:2:602:PHE:O	1:2:603:PRO:C	2.62	0.42
1:6:558:ARG:HH12	1:6:574:LEU:HD21	1.83	0.42
1:9:334:VAL:HG13	1:9:381:THR:HG21	2.01	0.42
1:9:408:MET:HE1	1:9:470:ASP:N	2.33	0.42
1:9:603:PRO:HG2	1:9:621:PHE:CD2	2.53	0.42
1:12:514:THR:HG22	1:12:533:THR:HG22	2.01	0.42
10:N:243:HIS:HA	10:N:256:ILE:HD11	2.01	0.42
8:P:45:LEU:HB2	8:P:52:MET:HB2	2.01	0.42
8:P:65:LEU:HD13	8:P:66:ASN:ND2	2.34	0.42
12:M:7:ILE:HB	12:M:135:LEU:HG	2.01	0.42
12:M:284:LEU:HD23	12:M:363:MET:HE2	2.01	0.42
13:A:375:THR:HB	13:A:591:ARG:HG2	2.01	0.42
13:A:860:LYS:HD2	13:A:861:CYS:HB2	2.02	0.42
13:A:927:GLY:O	13:A:931:VAL:HG23	2.19	0.42
13:F:737:CYS:HB2	13:F:767:GLU:HG3	2.00	0.42
13:F:874:MET:HG3	13:F:902:SER:HB2	2.01	0.42
13:F:979:THR:HG23	13:F:1008:VAL:HB	2.01	0.42
14:G:359:PHE:CD1	14:G:370:VAL:HG22	2.54	0.42
12:m:293:MET:SD	12:m:367:PHE:HB2	2.59	0.42
13:a:341:SER:HB3	13:a:362:LEU:HD13	2.00	0.42
13:a:1129:ARG:O	13:a:1133:GLN:HG2	2.19	0.42
14:b:432:ALA:HA	14:b:444:THR:HB	2.00	0.42
1:15:43:ARG:HD3	1:15:90:LYS:O	2.19	0.42
1:15:351:PHE:CZ	1:15:669:ASN:HB2	2.54	0.42
1:16:464:LEU:HD23	1:16:598:ALA:O	2.19	0.42
1:16:501:LEU:O	1:16:505:LYS:HG2	2.18	0.42
1:16:505:LYS:HA	1:16:505:LYS:HD3	1.80	0.42
1:14:41:THR:HA	1:14:65:VAL:O	2.19	0.42
1:13:57:ILE:H	1:13:57:ILE:HD12	1.84	0.42
1:17:574:LEU:HD23	1:17:574:LEU:H	1.84	0.42
1:18:4:GLN:OE1	1:18:7:LEU:HD21	2.19	0.42
1:1:465:MET:HE1	1:1:584:LEU:HA	2.00	0.42
2:C:111:TRP:C	2:C:113:LYS:H	2.27	0.42
4:E:927:GLU:O	4:E:931:MET:HG3	2.19	0.42
4:I:590:LEU:HB2	4:I:625:MET:HE1	2.01	0.42
5:J:88:PHE:CZ	5:J:462:LEU:HD13	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:234:TRP:HZ2	8:Q:275:LEU:HD22	1.81	0.42
8:Q:266:CYS:C	8:Q:267:ARG:HG3	2.45	0.42
5:j:260:LYS:HE3	5:j:260:LYS:HB2	1.85	0.42
5:j:311:THR:OG1	5:j:339:LEU:HB2	2.20	0.42
1:z:469:MET:HB3	1:z:472:PHE:HE1	1.84	0.42
1:2:174:GLU:HA	1:2:177:ASN:ND2	2.33	0.42
1:2:211:VAL:HG22	1:2:247:VAL:HG22	2.00	0.42
1:6:18:LEU:HD13	1:6:114:ILE:HD12	2.01	0.42
1:6:340:ARG:HA	1:6:370:VAL:HG11	2.00	0.42
1:7:399:ALA:HB1	1:7:438:ARG:NH1	2.34	0.42
1:12:82:PRO:HA	1:12:113:GLY:HA3	2.01	0.42
10:N:48:HIS:CD2	11:L:252:LYS:HE3	2.54	0.42
10:N:399:GLU:HB3	10:N:403:GLU:OE2	2.18	0.42
8:P:489:ARG:HB2	8:P:500:GLN:HA	2.01	0.42
11:L:327:ASP:HA	11:L:330:MET:HE2	2.01	0.42
12:M:119:VAL:O	12:M:123:GLU:HG2	2.18	0.42
13:A:341:SER:HB3	13:A:362:LEU:HD13	2.01	0.42
13:A:804:TYR:HA	13:A:833:THR:OG1	2.18	0.42
14:B:149:PRO:HD2	14:B:551:VAL:HG22	2.01	0.42
14:G:155:PRO:HB3	14:G:157:PHE:CE1	2.55	0.42
11:l:216:LYS:HD2	11:l:216:LYS:HA	1.86	0.42
13:a:935:CYS:SG	13:a:962:PHE:HB3	2.59	0.42
13:a:1100:SER:O	13:a:1104:LYS:HG3	2.19	0.42
13:f:496:MET:HE2	13:f:517:TYR:CE1	2.55	0.42
1:19:296:MET:HE1	1:19:673:PHE:CG	2.53	0.42
1:19:367:THR:HA	1:19:391:ARG:O	2.19	0.42
1:19:469:MET:HA	1:19:472:PHE:CE1	2.53	0.42
1:19:543:PHE:HZ	1:19:578:LEU:HB3	1.84	0.42
1:16:140:TRP:CE3	1:16:289:ARG:HD2	2.54	0.42
1:16:174:GLU:O	1:16:178:LEU:HG	2.19	0.42
1:14:401:LEU:HD21	1:14:467:GLY:HA3	2.01	0.42
1:14:505:LYS:HD3	1:14:505:LYS:HA	1.71	0.42
1:18:151:LEU:HD23	1:18:151:LEU:HA	1.73	0.42
4:E:567:MET:HA	4:E:570:MET:HB3	2.01	0.42
4:E:764:CYS:SG	4:E:791:TYR:HB3	2.60	0.42
2:H:40:GLU:HG3	2:H:40:GLU:O	2.20	0.42
4:I:461:PHE:CE2	4:I:470:HIS:HD2	2.36	0.42
3:d:32:TRP:CD1	3:d:70:HIS:HD1	2.37	0.42
4:e:160:THR:HA	4:e:229:ASP:OD2	2.19	0.42
4:i:626:CYS:SG	4:i:652:VAL:HG12	2.59	0.42
5:j:71:VAL:HA	6:k:155:LYS:NZ	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:k:147:GLU:OE2	6:k:149:GLU:HB2	2.18	0.42
1:z:295:PHE:C	1:z:409:VAL:HG21	2.44	0.42
1:4:226:GLY:N	1:4:229:LYS:HB2	2.27	0.42
1:5:116:ILE:HG23	1:5:185:VAL:HG13	2.01	0.42
1:5:136:ALA:HB1	1:5:147:TRP:NE1	2.34	0.42
1:5:203:GLU:O	1:5:207:LYS:HG3	2.20	0.42
1:5:491:LEU:HD22	1:5:575:ILE:HD11	2.02	0.42
1:5:588:PRO:HB2	1:5:590:ASN:OD1	2.20	0.42
1:6:316:PHE:HA	1:6:649:ILE:HG21	2.00	0.42
1:6:617:ILE:O	1:6:648:PHE:HA	2.19	0.42
1:8:311:LEU:HB2	1:8:312:GLN:OE1	2.19	0.42
1:9:130:MET:N	1:9:130:MET:HE2	2.34	0.42
1:12:20:MET:HE3	1:12:21:VAL:O	2.19	0.42
1:12:131:PRO:HG3	1:12:137:LYS:HD3	2.01	0.42
10:N:805:HIS:HB2	10:N:834:GLU:H	1.84	0.42
13:A:250:ARG:HH21	13:A:429:ASP:HB3	1.84	0.42
13:A:935:CYS:SG	13:A:962:PHE:HB3	2.59	0.42
10:n:178:LEU:HA	10:n:190:PHE:CE1	2.55	0.42
8:p:64:ARG:NH2	8:p:340:ASP:HA	2.28	0.42
8:p:489:ARG:HB2	8:p:500:GLN:HA	2.01	0.42
8:p:732:VAL:HG11	8:p:737:LEU:HD13	2.01	0.42
11:l:164:MET:CE	11:l:195:ASN:HD21	2.32	0.42
13:a:291:LYS:HE2	13:a:291:LYS:HB3	1.77	0.42
13:a:871:VAL:O	13:a:875:ILE:HG13	2.19	0.42
14:b:539:MET:HB3	14:b:540:PRO:HD3	2.01	0.42
14:g:336:LYS:HD3	14:g:336:LYS:HA	1.89	0.42
1:19:448:VAL:O	1:19:451:GLN:HB2	2.19	0.42
1:19:533:THR:HG23	1:19:536:GLN:H	1.85	0.42
1:15:402:ASP:CG	1:15:441:ASN:H	2.27	0.42
1:15:465:MET:SD	1:15:597:PHE:HB3	2.59	0.42
1:14:52:ILE:H	1:14:52:ILE:HD12	1.84	0.42
1:14:550:VAL:HG21	1:14:579:PHE:HB2	2.01	0.42
1:13:38:LYS:HG2	1:13:98:PRO:HD3	2.02	0.42
1:1:516:PHE:HB3	1:1:519:ILE:HG22	2.00	0.42
1:1:529:ARG:HE	1:1:601:TYR:HA	1.84	0.42
4:E:784:LEU:HB2	4:E:789:TRP:CH2	2.55	0.42
4:I:130:TYR:CZ	4:I:174:LEU:HD12	2.54	0.42
4:I:133:PHE:HD1	4:I:136:LEU:HD12	1.85	0.42
4:I:397:LEU:HD11	4:I:430:LEU:HD13	2.02	0.42
4:I:414:LYS:HD2	4:I:444:ASN:HA	2.00	0.42
4:I:599:LEU:HD21	4:I:629:PHE:HE1	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:J:93:ILE:HD12	5:J:133:TRP:CZ3	2.54	0.42
1:Z:57:ILE:HG23	1:Z:61:GLU:O	2.19	0.42
2:c:22:VAL:HG23	2:c:23:LEU:N	2.35	0.42
4:e:121:ILE:HG12	4:e:162:MET:SD	2.59	0.42
4:e:563:LEU:HD21	4:e:589:CYS:HB2	2.01	0.42
4:e:599:LEU:HD12	4:e:600:SER:H	1.84	0.42
5:j:64:GLU:CD	5:j:65:THR:H	2.26	0.42
1:2:356:ALA:HB1	1:2:357:PRO:HD2	2.00	0.42
1:3:26:THR:HA	1:3:76:LEU:HD23	2.00	0.42
1:4:482:ASN:OD1	1:4:485:GLN:HB2	2.19	0.42
1:4:550:VAL:HG21	1:4:579:PHE:HB2	2.01	0.42
1:5:160:VAL:HG22	1:5:388:TYR:HB3	2.00	0.42
1:6:438:ARG:H	1:6:462:ASP:CG	2.28	0.42
1:6:639:LEU:HD22	1:6:644:LEU:HD12	2.00	0.42
1:7:29:ILE:HB	1:7:73:THR:HB	2.00	0.42
1:8:295:PHE:HE2	1:8:407:LEU:HD12	1.84	0.42
1:8:484:ASP:OD1	1:8:485:GLN:HG3	2.19	0.42
1:12:316:PHE:HB2	1:12:651:ASP:HB2	2.01	0.42
1:12:568:GLU:OE2	1:12:570:LYS:HE2	2.19	0.42
10:N:826:GLN:HG2	10:N:853:VAL:HA	2.02	0.42
10:N:900:THR:HA	10:N:926:ALA:HB3	2.02	0.42
8:P:670:LEU:HD13	8:P:695:LEU:HD22	2.00	0.42
11:L:77:ARG:HH21	11:L:90:PHE:HB3	1.83	0.42
12:M:179:VAL:O	12:M:182:PRO:HD2	2.19	0.42
13:A:297:LEU:HD22	13:A:350:ILE:HD12	2.00	0.42
13:A:494:LEU:HA	13:A:519:LEU:HD11	2.01	0.42
13:A:494:LEU:O	13:A:497:MET:HG3	2.19	0.42
13:A:630:TRP:CE3	14:B:162:LEU:HD22	2.54	0.42
13:F:654:PHE:CG	13:F:684:VAL:HG12	2.54	0.42
10:n:418:LEU:HD11	10:n:463:LEU:HD22	2.01	0.42
10:n:939:LEU:HD13	10:n:975:LEU:HD21	2.01	0.42
8:p:315:GLU:HA	8:p:330:ARG:NH1	2.34	0.42
11:l:51:TYR:HA	11:l:61:PRO:HA	2.02	0.42
12:m:53:GLU:HA	12:m:59:TYR:HA	2.02	0.42
13:a:279:ILE:HG23	13:a:301:GLU:OE1	2.20	0.42
13:a:860:LYS:HD2	13:a:861:CYS:HB2	2.02	0.42
13:f:508:VAL:HG13	13:f:509:PHE:N	2.35	0.42
1:19:123:TYR:OH	1:19:132:SER:HB3	2.19	0.42
1:19:142:TRP:CD2	1:19:682:PRO:HG3	2.54	0.42
1:19:617:ILE:O	1:19:648:PHE:HA	2.19	0.42
1:15:45:SER:N	1:15:61:GLU:HA	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:15:603:PRO:HB3	1:15:655:TYR:CD2	2.55	0.42
1:14:617:ILE:HD13	1:14:646:CYS:HB3	2.01	0.42
1:13:61:GLU:HG3	1:13:62:ASP:OD1	2.19	0.42
1:13:546:GLN:O	1:13:550:VAL:HG23	2.20	0.42
1:17:449:TYR:CZ	1:17:456:PRO:HG3	2.54	0.42
1:18:628:THR:O	1:18:628:THR:HG22	2.19	0.42
1:18:643:GLY:C	1:18:644:LEU:HD22	2.45	0.42
1:1:602:PHE:HB2	1:1:603:PRO:HD2	2.01	0.42
3:D:48:PRO:HD3	3:D:83:ARG:HA	2.01	0.42
4:E:100:HIS:HA	4:E:103:LYS:HD2	2.02	0.42
4:E:126:ILE:HG22	4:E:128:ASN:N	2.28	0.42
4:I:453:VAL:O	4:I:456:VAL:HG12	2.19	0.42
4:I:737:GLY:O	4:I:741:MET:HG3	2.19	0.42
7:O:97:LEU:HA	7:O:101:LYS:HD2	2.01	0.42
1:Z:208:LYS:HE3	1:Z:257:PHE:HB2	2.01	0.42
1:Z:321:THR:O	1:Z:325:GLU:OE1	2.37	0.42
1:Z:521:ALA:O	1:Z:524:LEU:HD23	2.19	0.42
4:e:100:HIS:HA	4:e:103:LYS:HD2	2.02	0.42
4:e:636:GLN:HB3	4:e:665:ASN:HB2	2.01	0.42
4:i:122:LYS:HG3	4:i:168:LEU:CD2	2.49	0.42
4:i:130:TYR:CZ	4:i:174:LEU:HD12	2.54	0.42
4:i:599:LEU:HD21	4:i:629:PHE:HE1	1.85	0.42
4:i:863:HIS:HA	4:i:892:GLN:HB2	2.00	0.42
5:j:180:ARG:HA	5:j:180:ARG:HD3	1.81	0.42
1:z:603:PRO:HD2	1:z:620:PRO:O	2.20	0.42
1:2:42:ILE:HG13	1:2:93:VAL:HG22	2.02	0.42
1:2:568:GLU:OE2	1:2:570:LYS:HE2	2.19	0.42
1:3:37:CYS:O	1:3:69:MET:HB2	2.20	0.42
1:3:196:GLN:HB3	1:3:233:LEU:HD11	2.02	0.42
1:6:119:GLU:HA	1:6:130:MET:HA	2.01	0.42
1:8:268:VAL:HG23	1:8:280:PRO:HA	2.01	0.42
1:8:313:LEU:O	1:8:314:GLN:HG3	2.20	0.42
1:8:486:LYS:HD2	1:8:488:PHE:CE1	2.55	0.42
1:8:667:ILE:HD12	1:8:667:ILE:HA	1.88	0.42
1:9:296:MET:HE1	1:9:673:PHE:CD1	2.54	0.42
10:N:908:LEU:HD22	10:N:938:VAL:HG21	2.00	0.42
10:N:939:LEU:HD13	10:N:975:LEU:HD21	2.01	0.42
8:P:25:VAL:HG23	8:P:56:HIS:O	2.20	0.42
8:P:39:GLU:O	8:P:43:GLN:HG3	2.20	0.42
11:L:187:LEU:HD11	11:L:407:GLU:HG2	2.02	0.42
12:M:112:LEU:HA	12:M:112:LEU:HD23	1.69	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:M:348:ASN:C	12:M:348:ASN:HD22	2.27	0.42
12:M:417:ASP:O	12:M:421:GLU:OE1	2.37	0.42
13:A:1050:GLU:O	13:A:1053:LYS:HG3	2.19	0.42
14:B:171:MET:HE2	14:B:171:MET:N	2.34	0.42
13:F:212:LYS:HA	13:F:212:LYS:HD3	1.80	0.42
14:G:350:LEU:O	14:G:358:LEU:HD12	2.19	0.42
10:n:151:LEU:HD12	10:n:151:LEU:HA	1.86	0.42
10:n:321:LEU:HD23	10:n:321:LEU:HA	1.87	0.42
8:p:25:VAL:HG23	8:p:56:HIS:O	2.19	0.42
13:a:326:LEU:HD21	13:a:358:LEU:HD11	2.02	0.42
14:b:517:LYS:HE2	14:b:558:ASP:OD1	2.20	0.42
13:f:852:LEU:HD11	13:f:857:THR:HG21	2.02	0.42
1:19:613:LYS:HA	1:19:613:LYS:HD3	1.79	0.42
1:16:195:TYR:HB3	1:16:267:LEU:HD11	2.02	0.42
1:16:340:ARG:HA	1:16:370:VAL:HG11	2.00	0.42
1:16:495:PRO:HG3	1:16:579:PHE:HD2	1.84	0.42
1:14:412:PRO:HB3	1:14:421:PRO:HA	2.01	0.42
1:13:138:LYS:HE2	1:13:285:THR:H	1.85	0.42
1:18:174:GLU:HA	1:18:177:ASN:HD22	1.83	0.42
4:E:121:ILE:HG12	4:E:162:MET:SD	2.60	0.42
4:E:236:TRP:CE3	4:E:238:LEU:HD11	2.54	0.42
4:E:681:PHE:CB	4:E:710:ILE:HD11	2.45	0.42
4:I:263:LEU:HD21	4:I:275:LEU:HD11	2.01	0.42
4:I:818:LYS:O	4:I:822:ARG:HG3	2.19	0.42
5:J:69:PHE:HA	5:J:72:TYR:CD2	2.55	0.42
5:J:159:ASP:OD1	5:J:160:MET:HG2	2.19	0.42
1:Z:43:ARG:HA	1:Z:61:GLU:HG3	2.01	0.42
1:Z:522:GLU:HA	1:Z:525:LEU:HB2	2.01	0.42
2:c:126:VAL:HA	2:c:129:PHE:HE2	1.82	0.42
2:c:128:GLU:OE2	1:11:512:ASN:HB2	2.20	0.42
4:e:874:VAL:HG11	4:e:898:ILE:HG23	2.02	0.42
5:j:57:THR:HA	5:j:73:ARG:HH12	1.85	0.42
5:j:290:PHE:CE2	5:j:351:VAL:HB	2.54	0.42
9:r:57:TRP:HB2	9:r:67:VAL:H	1.84	0.42
1:z:200:HIS:HE1	1:z:283:LYS:HE3	1.84	0.42
1:z:620:PRO:HD2	1:z:632:GLU:OE2	2.19	0.42
1:3:431:PHE:HB2	1:3:460:PHE:HB2	2.01	0.42
1:3:533:THR:HG23	1:3:536:GLN:H	1.84	0.42
1:5:9:LEU:HD22	1:5:107:ALA:HB1	2.01	0.42
1:5:316:PHE:CZ	1:5:664:ALA:HB3	2.54	0.42
1:6:174:GLU:O	1:6:178:LEU:HG	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:24:GLU:OE2	1:8:76:LEU:HD13	2.19	0.42
1:8:464:LEU:HD23	1:8:464:LEU:HA	1.81	0.42
1:9:142:TRP:CD2	1:9:682:PRO:HG3	2.54	0.42
1:9:448:VAL:O	1:9:451:GLN:HB2	2.20	0.42
1:12:52:ILE:HG12	1:12:75:ALA:HA	2.01	0.42
10:N:197:ARG:HG2	10:N:221:LEU:O	2.19	0.42
10:N:436:PHE:CD2	10:N:488:CYS:HB3	2.55	0.42
8:P:14:HIS:CD2	8:P:35:VAL:HB	2.54	0.42
8:P:513:LEU:HD12	8:P:513:LEU:HA	1.88	0.42
8:P:591:PRO:HB3	8:P:597:GLU:CD	2.44	0.42
13:F:533:LEU:HG	13:F:544:TYR:HB3	2.01	0.42
13:F:870:GLY:O	13:F:874:MET:HG2	2.20	0.42
8:p:320:ARG:HE	8:p:344:MET:HE3	1.84	0.42
12:m:417:ASP:O	12:m:421:GLU:OE1	2.38	0.42
13:a:344:TRP:HD1	13:a:345:LYS:HG3	1.84	0.42
13:a:494:LEU:O	13:a:497:MET:HG3	2.19	0.42
13:a:515:LYS:HE3	13:a:515:LYS:HB3	1.85	0.42
13:a:1067:CYS:HB2	13:a:1069:LEU:HD11	2.02	0.42
13:f:494:LEU:HD12	13:f:497:MET:HE2	2.02	0.42
13:f:964:ALA:HB2	13:f:991:LEU:HD23	2.00	0.42
1:19:39:SER:OG	1:19:96:PHE:HB2	2.19	0.42
1:19:262:SER:HB3	1:19:287:MET:SD	2.60	0.42
1:15:588:PRO:HB2	1:15:590:ASN:OD1	2.19	0.42
1:16:181:MET:HE2	1:16:181:MET:HB2	1.98	0.42
1:13:42:ILE:HG13	1:13:93:VAL:HG22	2.02	0.42
1:17:178:LEU:HD22	1:17:248:GLU:HB3	2.00	0.42
1:18:194:ASN:O	1:18:269:GLU:HG3	2.20	0.42
1:1:145:ASN:HA	1:3:66:TRP:CZ2	2.55	0.42
1:1:440:MET:HE3	1:1:444:LEU:HB3	2.01	0.42
3:D:50:LEU:HD22	3:D:109:CYS:SG	2.59	0.42
4:E:98:ARG:O	4:E:171:SER:HB2	2.20	0.42
4:E:767:LEU:HD11	4:E:802:LEU:HD22	2.00	0.42
5:J:184:ALA:C	5:J:223:LEU:HD12	2.44	0.42
4:e:708:CYS:HB3	4:e:739:ILE:HD11	2.01	0.42
4:i:148:MET:HE1	4:i:273:LEU:HB2	2.01	0.42
9:r:53:MET:HG3	9:r:53:MET:O	2.19	0.42
1:2:401:LEU:HD23	1:2:406:ASN:HD21	1.85	0.42
1:3:52:ILE:HD12	1:3:57:ILE:HD12	2.01	0.42
1:4:65:VAL:HG12	1:4:67:ARG:HG2	2.01	0.42
1:6:577:GLN:OE1	1:6:604:ASP:HA	2.20	0.42
1:7:51:HIS:HB2	1:7:76:LEU:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8:173:ARG:O	1:8:176:GLN:HG3	2.20	0.42
1:9:452:GLN:C	1:9:454:GLN:H	2.28	0.42
11:L:51:TYR:HA	11:L:61:PRO:HA	2.01	0.42
13:F:256:SER:HB2	16:F:1201:ADP:H3'	2.01	0.42
13:F:477:ARG:HH11	13:F:483:LEU:HD23	1.85	0.42
13:F:854:ILE:HG12	13:F:885:MET:HE3	2.02	0.42
14:G:488:ALA:O	14:G:512:THR:HG22	2.19	0.42
10:n:691:PHE:HZ	10:n:990:TRP:HA	1.84	0.42
10:n:763:LEU:HA	10:n:766:HIS:ND1	2.34	0.42
10:n:765:SER:HA	10:n:796:ALA:HB2	2.02	0.42
10:n:805:HIS:HB2	10:n:834:GLU:H	1.85	0.42
10:n:910:ILE:HG21	10:n:920:MET:HE1	2.02	0.42
8:p:730:HIS:NE2	8:p:751:CYS:HB3	2.35	0.42
11:l:8:GLN:CG	11:l:17:GLY:HA3	2.47	0.42
12:m:284:LEU:HD23	12:m:363:MET:HE2	2.02	0.42
13:a:298:ILE:HD13	13:a:311:LYS:HZ3	1.83	0.42
13:f:233:PHE:CZ	13:f:245:ILE:HD12	2.54	0.42
13:f:938:LEU:HD23	13:f:943:CYS:SG	2.60	0.42
14:g:155:PRO:HB3	14:g:157:PHE:CE1	2.55	0.42
1:11:37:CYS:HB3	1:11:95:TYR:HD2	1.83	0.42
1:11:42:ILE:HD12	1:11:93:VAL:HG22	2.02	0.42
1:11:211:VAL:HB	1:11:225:VAL:HB	2.01	0.42
1:11:378:MET:HG3	1:11:382:LEU:CD2	2.49	0.42
1:15:203:GLU:O	1:15:207:LYS:HG3	2.20	0.42
1:15:466:THR:HB	1:15:468:HIS:HD2	1.85	0.42
1:16:60:LYS:HZ1	1:17:78:ARG:HD3	1.82	0.42
1:16:437:GLY:HA2	1:16:462:ASP:OD2	2.20	0.42
1:14:120:ALA:HB3	1:14:122:ILE:HG23	2.02	0.42
1:14:465:MET:HA	1:14:597:PHE:HD2	1.84	0.42
1:13:196:GLN:HB3	1:13:233:LEU:HD11	2.02	0.42
1:17:276:ILE:HD11	1:18:545:GLU:HB3	2.02	0.42
1:18:305:VAL:O	1:18:331:VAL:HA	2.20	0.42
1:1:84:PRO:HD2	1:1:88:GLU:CD	2.45	0.42
1:1:577:GLN:NE2	1:1:604:ASP:HA	2.35	0.42
2:C:43:ASN:HA	13:A:425:HIS:NE2	2.35	0.42
4:I:503:LEU:HA	4:I:508:GLU:CB	2.49	0.42
4:I:645:PHE:HB2	4:I:649:ALA:HB3	2.02	0.42
8:Q:224:ASN:HD22	8:Q:233:PHE:H	1.68	0.42
1:Z:210:ARG:HB3	1:Z:223:LEU:HD11	2.01	0.42
1:Z:620:PRO:HB2	1:Z:631:LEU:HD12	2.02	0.42
3:d:64:HIS:NE2	1:11:510:TYR:HD2	2.16	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:e:184:PHE:CE1	4:e:203:ILE:HG23	2.55	0.42
4:e:460:ILE:HA	4:e:463:MET:HG3	2.02	0.42
4:i:348:CYS:HB2	4:i:373:HIS:HB2	2.02	0.42
4:i:460:ILE:O	4:i:464:LEU:HG	2.20	0.42
4:i:818:LYS:O	4:i:822:ARG:HG3	2.19	0.42
5:j:218:PHE:CZ	5:j:225:LEU:HD13	2.55	0.42
6:k:151:ALA:O	6:k:154:ARG:HD2	2.20	0.42
7:o:5:ARG:HG2	7:o:61:PRO:HD3	2.01	0.42
1:2:401:LEU:HD13	1:2:438:ARG:HG3	2.02	0.42
1:2:464:LEU:HD22	1:2:468:HIS:O	2.19	0.42
1:3:506:GLN:HG3	1:3:511:GLY:HA3	2.02	0.42
1:4:114:ILE:HG22	1:4:116:ILE:HG13	2.01	0.42
1:4:353:TYR:CD2	1:4:672:PRO:HB3	2.55	0.42
1:5:393:THR:HB	1:5:402:ASP:OD2	2.20	0.42
1:7:79:MET:HE2	1:7:79:MET:HB2	1.96	0.42
1:7:144:MET:O	1:7:144:MET:HE3	2.20	0.42
1:7:425:VAL:HG12	1:7:454:GLN:O	2.20	0.42
1:8:311:LEU:HD13	8:P:449:PRO:HB3	2.01	0.42
1:8:577:GLN:NE2	1:8:604:ASP:HA	2.35	0.42
1:9:123:TYR:OH	1:9:132:SER:HB3	2.19	0.42
1:12:186:GLU:HG2	1:12:241:ARG:HE	1.85	0.42
11:L:164:MET:CE	11:L:195:ASN:HD21	2.32	0.42
11:L:311:LEU:HD23	11:L:311:LEU:HA	1.81	0.42
12:M:53:GLU:HA	12:M:59:TYR:HA	2.02	0.42
12:M:420:SER:HA	12:M:423:GLN:HG2	2.01	0.42
13:A:699:ARG:HG3	13:A:750:ASP:OD2	2.20	0.42
13:A:1067:CYS:HB2	13:A:1069:LEU:HD11	2.01	0.42
13:A:1129:ARG:O	13:A:1133:GLN:HG2	2.19	0.42
14:B:432:ALA:HA	14:B:444:THR:HB	2.01	0.42
13:F:700:VAL:HG12	13:F:702:ILE:HG13	2.02	0.42
11:l:225:LEU:O	11:l:229:VAL:HG23	2.20	0.42
11:l:306:ARG:NH2	11:l:337:ASN:HB3	2.35	0.42
13:a:630:TRP:CE3	14:b:162:LEU:HD22	2.54	0.42
13:a:927:GLY:O	13:a:931:VAL:HG23	2.19	0.42
13:a:1050:GLU:O	13:a:1053:LYS:HG3	2.20	0.42
13:f:315:GLN:HB3	13:f:319:LEU:HD12	2.02	0.42
13:f:477:ARG:HH11	13:f:483:LEU:HD23	1.85	0.42
13:f:638:VAL:HG22	14:g:249:LYS:HG3	2.02	0.42
14:g:251:LEU:HD21	14:g:287:VAL:HA	2.02	0.42
14:g:460:LYS:HG3	14:g:461:VAL:H	1.83	0.42
1:11:132:SER:HA	1:13:43:ARG:HH22	1.85	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:19:200:HIS:HE1	1:19:283:LYS:HE3	1.84	0.42
1:15:261:ILE:CG1	1:15:288:PHE:HB2	2.49	0.42
1:15:279:ILE:HD12	1:16:553:CYS:SG	2.60	0.42
1:15:316:PHE:CZ	1:15:664:ALA:HB3	2.54	0.42
1:15:343:LYS:HG3	1:15:663:CYS:HB2	2.02	0.42
1:16:24:GLU:HG2	1:16:76:LEU:HD23	2.02	0.42
1:16:42:ILE:HG23	1:16:61:GLU:HG3	2.02	0.42
1:16:198:ILE:HG23	1:16:231:VAL:HG13	2.01	0.42
1:16:401:LEU:HD11	1:16:467:GLY:HA3	2.02	0.42
1:17:9:LEU:HD12	1:17:29:ILE:HG23	2.01	0.42
1:18:319:SER:O	1:18:323:LEU:HD23	2.20	0.42
1:1:24:GLU:HB2	1:1:78:ARG:NH2	2.33	0.42
1:1:255:PRO:HG3	1:1:446:GLU:CD	2.44	0.42
2:C:91:ILE:HD12	2:C:98:GLN:HA	2.02	0.42
4:E:160:THR:HA	4:E:229:ASP:OD2	2.19	0.42
4:E:636:GLN:HB3	4:E:665:ASN:HB2	2.01	0.42
5:J:39:ASP:O	5:J:43:ARG:HB2	2.19	0.42
5:J:131:SER:HB2	5:J:133:TRP:HE1	1.85	0.42
1:Z:24:GLU:HG3	1:Z:78:ARG:NE	2.34	0.42
1:Z:85:THR:OG1	1:Z:88:GLU:HB2	2.19	0.42
1:Z:174:GLU:O	1:Z:178:LEU:HG	2.20	0.42
3:d:12:PRO:HB2	3:d:24:ILE:HB	2.01	0.42
4:e:415:GLU:O	4:e:419:ARG:HG2	2.20	0.42
5:j:279:THR:HB	5:j:329:VAL:HB	2.02	0.42
1:z:115:GLU:HG2	1:z:186:GLU:HB2	2.02	0.42
1:z:486:LYS:NZ	1:z:567:LEU:HA	2.35	0.42
1:3:61:GLU:HG3	1:3:62:ASP:OD1	2.19	0.42
1:5:188:PRO:O	1:5:192:LEU:HG	2.20	0.42
1:5:414:LYS:HG3	1:5:418:LYS:O	2.20	0.42
1:6:124:ARG:NH1	1:6:148:GLY:H	2.18	0.42
1:6:437:GLY:HA2	1:6:462:ASP:OD2	2.20	0.42
1:6:615:LEU:HD12	1:6:639:LEU:HD13	2.01	0.42
1:7:234:LEU:HD23	1:7:237:PHE:CZ	2.55	0.42
1:9:262:SER:HB3	1:9:287:MET:SD	2.60	0.42
1:12:602:PHE:O	1:12:603:PRO:C	2.62	0.42
10:N:249:LYS:HA	10:N:249:LYS:HD3	1.84	0.42
10:N:763:LEU:HA	10:N:766:HIS:ND1	2.34	0.42
12:M:7:ILE:O	12:M:135:LEU:HA	2.20	0.42
13:A:703:ARG:HG3	13:A:704:ASP:CG	2.44	0.42
13:A:891:LEU:HD11	13:A:893:LEU:HD21	2.02	0.42
14:G:378:LEU:HD12	14:G:378:LEU:HA	1.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:G:434:ASN:HB3	14:G:474:LEU:HB2	2.02	0.42
10:n:338:ILE:HD11	10:n:387:GLN:HG2	2.01	0.42
12:m:113:VAL:HA	12:m:116:VAL:HG12	2.02	0.42
13:a:891:LEU:HD11	13:a:893:LEU:HD21	2.02	0.42
13:a:939:ARG:HB2	13:a:966:ARG:NE	2.35	0.42
13:f:256:SER:HB2	16:f:1201:ADP:H3'	2.01	0.42
1:11:577:GLN:NE2	1:11:604:ASP:HA	2.35	0.42
1:11:618:PRO:HG3	1:11:655:TYR:CZ	2.55	0.42
1:19:175:ILE:HD13	1:19:221:TYR:CZ	2.55	0.42
1:19:175:ILE:HG21	1:19:221:TYR:CE2	2.54	0.42
1:15:140:TRP:O	1:15:141:MET:HE2	2.19	0.42
1:15:188:PRO:O	1:15:192:LEU:HG	2.19	0.42
1:16:49:LEU:HD21	1:16:78:ARG:HH21	1.84	0.42
1:16:438:ARG:H	1:16:462:ASP:CG	2.27	0.42
1:13:209:THR:HB	1:13:261:ILE:HD13	2.02	0.42
1:13:482:ASN:HB3	1:13:485:GLN:HB2	2.01	0.42
1:13:506:GLN:HG3	1:13:511:GLY:HA3	2.01	0.42
1:17:3:PHE:CD2	1:17:281:LEU:HD13	2.55	0.42
1:18:393:THR:HB	1:18:402:ASP:OD2	2.19	0.42
1:1:546:GLN:OE1	1:1:581:LEU:HG	2.20	0.41
4:E:148:MET:HE3	4:E:148:MET:HB3	1.95	0.41
4:E:186:PHE:HD2	4:E:228:ILE:HG12	1.85	0.41
4:E:217:ILE:H	4:E:217:ILE:HD12	1.85	0.41
2:H:51:ALA:HA	2:H:54:ALA:HB3	2.01	0.41
4:I:259:LEU:HD12	4:I:259:LEU:HA	1.86	0.41
5:J:112:THR:HA	5:J:159:ASP:CB	2.50	0.41
7:O:8:LYS:HD3	8:P:717:GLN:HG3	2.02	0.41
8:Q:209:PRO:HA	8:Q:272:ASP:HA	2.01	0.41
3:d:39:GLU:O	3:d:41:PRO:HD3	2.20	0.41
4:i:645:PHE:HB2	4:i:649:ALA:HB3	2.02	0.41
5:j:1:MET:HE2	5:j:1:MET:HA	2.01	0.41
5:j:391:ASP:HB3	5:j:394:HIS:H	1.85	0.41
1:3:232:TYR:CE2	1:3:234:LEU:HA	2.55	0.41
1:5:252:PHE:HD2	1:5:292:PRO:HA	1.84	0.41
1:6:97:CYS:HB2	1:6:100:GLN:NE2	2.35	0.41
1:7:157:PRO:HA	1:7:160:VAL:HG23	2.02	0.41
1:8:143:GLY:HA2	1:8:681:THR:OG1	2.20	0.41
1:8:157:PRO:O	1:8:160:VAL:HG22	2.20	0.41
1:12:122:ILE:O	1:12:147:TRP:HB2	2.20	0.41
10:N:86:GLN:OE1	10:N:229:LYS:HG2	2.20	0.41
10:N:171:PHE:HD1	10:N:193:SER:HB2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:N:608:LYS:HE3	10:N:634:HIS:CD2	2.54	0.41
8:P:8:MET:HE3	8:P:8:MET:HB2	1.89	0.41
8:P:467:LEU:HD11	8:P:481:PHE:CE2	2.54	0.41
11:L:99:ASN:HA	11:L:142:GLY:H	1.84	0.41
13:A:898:LEU:HB2	13:A:924:ASN:HB2	2.02	0.41
14:B:306:ARG:HA	14:B:321:LEU:HD12	2.02	0.41
13:F:293:SER:O	13:F:297:LEU:HG	2.19	0.41
13:F:813:LYS:HE2	13:F:813:LYS:HA	2.01	0.41
14:G:532:ASN:HB3	14:G:550:GLU:O	2.19	0.41
10:n:692:LEU:HB2	10:n:718:LEU:HD22	2.02	0.41
8:p:332:ALA:HB1	8:p:335:LYS:HB2	2.01	0.41
12:m:134:GLN:HA	12:m:165:ASN:O	2.20	0.41
12:m:179:VAL:O	12:m:182:PRO:HD2	2.19	0.41
13:f:247:LEU:HD21	13:f:371:THR:HG22	2.02	0.41
13:f:247:LEU:HD22	13:f:258:LEU:HD23	2.02	0.41
13:f:785:VAL:HG12	13:f:789:LEU:HD13	2.01	0.41
13:f:1077:LEU:O	13:f:1081:ILE:HG12	2.20	0.41
14:g:284:LEU:HD11	14:g:566:ILE:HD12	2.01	0.41
1:11:333:LYS:HE3	1:11:333:LYS:HB3	1.85	0.41
1:11:546:GLN:OE1	1:11:581:LEU:HG	2.20	0.41
1:15:213:TRP:CD1	1:15:245:PHE:CE1	3.08	0.41
1:14:440:MET:HE1	1:14:444:LEU:HD23	2.02	0.41
1:13:232:TYR:CE2	1:13:234:LEU:HA	2.55	0.41
1:13:465:MET:SD	1:13:597:PHE:HB2	2.60	0.41
1:17:181:MET:HE1	1:17:263:LEU:HD12	2.02	0.41
1:18:505:LYS:HE3	1:18:630:CYS:SG	2.60	0.41
1:1:510:TYR:CD2	3:D:64:HIS:NE2	2.88	0.41
2:C:43:ASN:HD22	13:A:425:HIS:CD2	2.37	0.41
4:E:184:PHE:CE1	4:E:203:ILE:HG23	2.55	0.41
4:E:247:ASP:CG	4:E:267:MET:HB2	2.45	0.41
4:E:405:MET:HE3	4:E:458:ALA:HB2	2.02	0.41
4:E:674:PHE:CG	4:E:680:LEU:HD13	2.55	0.41
6:K:146:THR:O	6:K:147:GLU:HG3	2.20	0.41
1:Z:416:GLN:HG3	1:9:139:LYS:HZ3	1.86	0.41
4:e:358:ASP:HB3	4:e:361:SER:OG	2.20	0.41
4:e:674:PHE:CG	4:e:680:LEU:HD13	2.55	0.41
4:e:821:CYS:HA	4:e:824:LEU:HB2	2.00	0.41
4:i:740:LEU:HB2	4:i:766:ALA:HB1	2.02	0.41
4:i:823:SER:HA	4:i:826:LEU:HD12	2.01	0.41
5:j:120:VAL:HG22	5:j:134:ASP:HA	2.02	0.41
5:j:131:SER:HB2	5:j:133:TRP:HE1	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:o:72:ARG:HD2	7:o:145:TYR:CD2	2.55	0.41
8:q:266:CYS:C	8:q:267:ARG:HG3	2.44	0.41
1:z:38:LYS:HD2	1:z:70:ASN:HA	2.03	0.41
1:z:116:ILE:HG12	1:z:185:VAL:HG22	2.02	0.41
1:z:197:LEU:HG	1:z:234:LEU:HB2	2.01	0.41
1:2:465:MET:SD	1:2:584:LEU:HD13	2.60	0.41
1:2:514:THR:HG22	1:2:533:THR:HG22	2.01	0.41
1:3:200:HIS:CE1	1:3:283:LYS:HE3	2.54	0.41
1:4:130:MET:CB	1:5:61:GLU:HB3	2.48	0.41
1:4:401:LEU:HD21	1:4:467:GLY:HA3	2.02	0.41
1:5:279:ILE:HD12	1:6:553:CYS:SG	2.60	0.41
1:5:343:LYS:HG3	1:5:663:CYS:HB2	2.02	0.41
1:7:3:PHE:CD2	1:7:281:LEU:HD13	2.55	0.41
1:8:66:TRP:CH2	1:8:101:GLU:HA	2.55	0.41
1:9:343:LYS:HE2	1:9:343:LYS:HB2	1.92	0.41
1:12:440:MET:HE3	1:12:444:LEU:HB3	2.02	0.41
10:N:178:LEU:HA	10:N:190:PHE:CE1	2.55	0.41
8:P:481:PHE:O	8:P:583:LEU:HD12	2.20	0.41
11:L:225:LEU:O	11:L:229:VAL:HG23	2.20	0.41
12:M:68:LEU:HB3	12:M:95:SER:O	2.20	0.41
13:A:939:ARG:HB2	13:A:966:ARG:NE	2.35	0.41
13:A:992:CYS:O	13:A:996:LYS:HG3	2.20	0.41
14:B:538:SER:HB2	14:B:545:LEU:HD21	2.02	0.41
13:F:201:ASP:HB3	13:F:202:LEU:H	1.72	0.41
13:F:852:LEU:HD11	13:F:857:THR:HG21	2.02	0.41
13:F:938:LEU:HD23	13:F:943:CYS:SG	2.60	0.41
13:F:1031:LYS:HE2	13:F:1031:LYS:HB3	1.90	0.41
12:m:101:TRP:HD1	12:m:145:SER:HB3	1.84	0.41
12:m:348:ASN:C	12:m:348:ASN:HD22	2.28	0.41
13:a:409:SER:HA	13:a:448:LYS:HD3	2.02	0.41
13:a:703:ARG:HG3	13:a:704:ASP:CG	2.45	0.41
14:b:149:PRO:HD2	14:b:551:VAL:HG22	2.01	0.41
14:b:492:HIS:HB2	14:b:506:VAL:HB	2.01	0.41
13:f:628:GLN:HG3	13:f:661:PHE:HE1	1.85	0.41
13:f:791:HIS:HA	13:f:794:LYS:NZ	2.35	0.41
1:11:14:PRO:HB3	1:11:108:VAL:HB	2.02	0.41
1:11:130:MET:HB2	1:13:43:ARG:CD	2.50	0.41
1:11:141:MET:HE1	1:11:147:TRP:CE2	2.55	0.41
1:11:602:PHE:HB2	1:11:603:PRO:HD2	2.02	0.41
1:15:160:VAL:HG12	1:15:379:LYS:HE2	2.02	0.41
1:15:584:LEU:HD13	1:15:597:PHE:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:16:181:MET:HE1	1:16:288:PHE:CE2	2.55	0.41
1:14:26:THR:HA	1:14:76:LEU:HD23	2.01	0.41
1:14:431:PHE:HB2	1:14:460:PHE:CD1	2.55	0.41
1:13:505:LYS:HA	1:13:505:LYS:HD3	1.89	0.41
1:18:482:ASN:HD21	1:18:484:ASP:HB3	1.84	0.41
3:D:12:PRO:HB2	3:D:24:ILE:HB	2.02	0.41
4:E:680:LEU:HD12	4:E:683:LEU:HD11	2.02	0.41
2:H:52:TRP:HD1	2:H:53:VAL:HG13	1.84	0.41
4:I:603:THR:OG1	4:I:643:THR:HG23	2.20	0.41
1:Z:47:ARG:HH22	1:Z:84:PRO:HD2	1.86	0.41
4:e:843:GLU:O	4:e:847:GLN:HG2	2.21	0.41
2:h:51:ALA:HA	2:h:54:ALA:HB3	2.01	0.41
4:i:461:PHE:CE2	4:i:470:HIS:HD2	2.39	0.41
4:i:503:LEU:HD23	4:i:508:GLU:HB3	2.02	0.41
6:k:131:THR:OG1	6:k:134:GLU:HB2	2.21	0.41
7:o:64:PRO:HB3	7:o:93:TRP:CG	2.55	0.41
1:z:200:HIS:CE1	1:z:264:SER:HB2	2.55	0.41
1:z:312:GLN:HE22	1:z:314:GLN:HG2	1.85	0.41
1:2:232:TYR:CE2	1:2:234:LEU:HD23	2.56	0.41
1:2:408:MET:HE2	1:2:469:MET:HE1	2.02	0.41
1:2:431:PHE:CE2	1:2:556:LEU:HD21	2.55	0.41
1:3:171:GLY:O	1:3:174:GLU:HG2	2.21	0.41
1:4:413:VAL:HG21	1:4:565:LEU:HD12	2.02	0.41
1:5:656:LEU:HD23	1:5:656:LEU:HA	1.88	0.41
1:6:337:ASP:HB3	1:6:340:ARG:HG3	2.02	0.41
1:7:140:TRP:HZ3	1:7:142:TRP:CE2	2.38	0.41
1:8:556:LEU:O	1:8:559:THR:HG22	2.19	0.41
11:L:76:VAL:HG12	11:L:90:PHE:HE1	1.85	0.41
11:L:306:ARG:NH2	11:L:337:ASN:HB3	2.35	0.41
12:M:101:TRP:HB2	12:M:184:ASN:HD22	1.86	0.41
13:F:1161:TRP:CD1	13:F:1161:TRP:H	2.38	0.41
10:n:717:SER:HA	10:n:745:ARG:HD3	2.03	0.41
10:n:826:GLN:HG2	10:n:853:VAL:HA	2.02	0.41
10:n:863:LEU:HG	10:n:865:LEU:HD21	2.02	0.41
13:a:250:ARG:HH21	13:a:429:ASP:HB3	1.86	0.41
13:f:355:TYR:CE1	13:f:383:MET:HE2	2.54	0.41
13:f:397:ALA:N	13:f:400:ARG:HH21	2.18	0.41
1:19:151:LEU:HD22	1:19:179:SER:OG	2.20	0.41
1:15:345:LEU:HD12	1:15:349:MET:HE2	2.02	0.41
1:15:478:THR:HG21	1:15:489:ARG:HB2	2.01	0.41
1:16:20:MET:HA	1:16:114:ILE:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:16:577:GLN:OE1	1:16:604:ASP:HA	2.20	0.41
1:14:353:TYR:CD2	1:14:672:PRO:HB3	2.55	0.41
1:18:378:MET:HA	1:18:381:THR:HG22	2.01	0.41
1:1:48:ILE:O	1:1:59:GLY:HA2	2.20	0.41
1:1:359:LYS:HE2	1:1:361:VAL:HG22	2.01	0.41
2:C:104:ILE:HG13	2:C:105:LEU:HD22	2.02	0.41
4:E:361:SER:HB2	4:E:365:ARG:NH2	2.36	0.41
4:E:640:ILE:O	4:E:669:ALA:HA	2.20	0.41
4:E:789:TRP:HD1	4:E:820:LEU:HD21	1.85	0.41
4:I:122:LYS:HG3	4:I:168:LEU:CD2	2.49	0.41
4:I:639:ARG:HB3	4:I:641:LYS:HE3	2.02	0.41
5:J:120:VAL:HG22	5:J:134:ASP:HA	2.02	0.41
5:J:180:ARG:HD3	5:J:180:ARG:HA	1.81	0.41
5:J:204:PRO:C	5:J:220:ILE:HG13	2.46	0.41
7:O:116:ASP:CG	7:O:117:ASP:H	2.29	0.41
9:R:69:GLY:C	9:R:70:LEU:HD12	2.45	0.41
2:c:45:LEU:HB2	2:c:98:GLN:NE2	2.35	0.41
4:e:666:LYS:HG3	4:e:691:TYR:HD2	1.85	0.41
4:e:784:LEU:HB2	4:e:789:TRP:CH2	2.55	0.41
6:k:71:PRO:HA	6:k:72:PRO:HD3	1.92	0.41
1:z:295:PHE:CE2	1:z:404:ILE:HD11	2.56	0.41
1:2:473:MET:HA	1:2:491:LEU:O	2.20	0.41
1:3:189:THR:HG22	1:3:193:GLN:NE2	2.35	0.41
1:4:440:MET:HE1	1:4:444:LEU:HD23	2.02	0.41
1:5:349:MET:HA	1:5:365:LEU:O	2.20	0.41
1:5:402:ASP:CG	1:5:441:ASN:H	2.28	0.41
1:6:355:GLN:HB3	1:6:677:TRP:HD1	1.85	0.41
1:7:27:LEU:O	1:7:74:VAL:HA	2.19	0.41
1:7:308:CYS:SG	1:7:345:LEU:HD22	2.60	0.41
1:8:205:GLU:O	1:8:209:THR:HG22	2.20	0.41
1:8:407:LEU:HD22	1:8:427:ILE:HG22	2.02	0.41
1:12:453:VAL:HG23	1:12:454:GLN:HG3	2.03	0.41
10:N:132:PHE:HE2	10:N:201:LEU:HD12	1.85	0.41
10:N:151:LEU:HD12	10:N:151:LEU:HA	1.86	0.41
10:N:173:GLU:OE1	10:N:174:PRO:HD2	2.21	0.41
10:N:400:ASN:O	10:N:403:GLU:HG3	2.19	0.41
10:N:631:LYS:HD3	10:N:631:LYS:HA	1.87	0.41
8:P:35:VAL:HG23	8:P:36:PHE:H	1.85	0.41
8:P:725:THR:OG1	8:P:764:ASN:HB2	2.20	0.41
11:L:133:PHE:O	11:L:164:MET:HA	2.20	0.41
12:M:206:ALA:HB2	12:M:301:ALA:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:A:520:LYS:HE2	13:A:520:LYS:HB2	1.88	0.41
14:B:154:GLU:HB3	14:B:155:PRO:HD3	2.01	0.41
14:B:397:THR:HB	14:B:437:VAL:HG21	2.03	0.41
13:F:247:LEU:HD21	13:F:371:THR:HG22	2.03	0.41
13:F:493:GLY:HA2	13:F:496:MET:HG2	2.03	0.41
10:n:469:GLY:O	10:n:472:LYS:HB2	2.21	0.41
13:f:287:LYS:HD3	13:f:541:GLU:CD	2.45	0.41
13:f:493:GLY:HA2	13:f:496:MET:HG2	2.01	0.41
13:f:1161:TRP:H	13:f:1161:TRP:CD1	2.38	0.41
1:11:24:GLU:HG3	1:11:78:ARG:HE	1.84	0.41
1:19:257:PHE:HE2	1:19:290:VAL:HG21	1.84	0.41
1:19:296:MET:HE1	1:19:673:PHE:CD1	2.55	0.41
1:15:349:MET:HA	1:15:365:LEU:O	2.20	0.41
1:15:353:TYR:CE2	1:15:672:PRO:HB3	2.56	0.41
1:14:262:SER:HB3	1:14:287:MET:SD	2.60	0.41
1:13:49:LEU:HG	1:13:57:ILE:O	2.20	0.41
1:17:157:PRO:HA	1:17:160:VAL:HG23	2.02	0.41
1:17:469:MET:HE1	1:17:473:MET:SD	2.61	0.41
1:18:678:TRP:CD1	1:18:679:LYS:N	2.88	0.41
2:C:22:VAL:HG23	2:C:23:LEU:N	2.35	0.41
4:E:415:GLU:O	4:E:419:ARG:HG2	2.20	0.41
4:I:214:ILE:O	4:I:218:LEU:HG	2.21	0.41
5:J:5:LEU:HB2	5:J:10:MET:SD	2.60	0.41
5:J:29:ASN:H	5:J:32:TRP:HB2	1.85	0.41
5:J:107:SER:HA	5:J:112:THR:HG21	2.02	0.41
5:J:218:PHE:CZ	5:J:225:LEU:HD13	2.55	0.41
6:K:13:ILE:HG21	6:K:42:ASP:OD1	2.21	0.41
6:K:154:ARG:HD2	6:K:154:ARG:HA	1.91	0.41
9:R:53:MET:HG3	9:R:53:MET:O	2.20	0.41
1:Z:171:GLY:O	1:Z:175:ILE:HG12	2.19	0.41
4:e:217:ILE:H	4:e:217:ILE:HD12	1.85	0.41
4:i:362:LEU:HA	4:i:368:SER:HB2	2.03	0.41
4:i:723:ILE:O	4:i:723:ILE:HG22	2.21	0.41
4:i:813:LYS:HB3	4:i:814:ASP:H	1.65	0.41
5:j:204:PRO:C	5:j:220:ILE:HG13	2.46	0.41
5:j:330:LYS:HE3	12:m:212:PHE:CE2	2.55	0.41
6:k:142:LYS:HG3	6:k:143:ASN:N	2.26	0.41
1:z:547:ASN:ND2	1:z:579:PHE:H	2.18	0.41
1:5:351:PHE:CZ	1:5:364:ILE:HD11	2.56	0.41
1:5:414:LYS:HZ2	1:5:419:ASP:HB3	1.84	0.41
1:6:181:MET:HE2	1:6:181:MET:HB2	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:469:MET:HE1	1:7:473:MET:SD	2.60	0.41
1:7:541:LYS:HD3	1:7:541:LYS:HA	1.84	0.41
1:8:590:ASN:OD1	1:8:591:GLN:HG3	2.19	0.41
1:8:632:GLU:HA	1:8:635:VAL:HG12	2.02	0.41
1:9:134:LYS:HA	1:9:137:LYS:HE3	2.03	0.41
1:9:618:PRO:HB3	1:9:655:TYR:CE2	2.55	0.41
1:12:300:GLN:O	1:12:670:ARG:HD3	2.20	0.41
10:N:691:PHE:HZ	10:N:990:TRP:HA	1.84	0.41
10:N:824:SER:O	10:N:830:CYS:HB3	2.19	0.41
11:L:271:ALA:HB1	11:L:272:PRO:HD2	2.03	0.41
11:L:275:SER:H	11:L:282:ARG:NH1	2.18	0.41
13:A:1100:SER:O	13:A:1104:LYS:HG3	2.19	0.41
14:B:453:CYS:N	14:B:461:VAL:HG13	2.33	0.41
13:F:644:MET:HE3	14:G:255:SER:HB3	2.03	0.41
13:F:1128:ALA:HB2	14:G:149:PRO:HA	2.03	0.41
14:G:359:PHE:HB3	14:G:394:LEU:HD21	2.03	0.41
10:n:875:LEU:HD22	10:n:899:LEU:HD22	2.03	0.41
8:p:513:LEU:HD23	8:p:582:TYR:CE2	2.55	0.41
11:l:16:ILE:HD13	11:l:229:VAL:HG11	2.03	0.41
11:l:258:VAL:HG13	11:l:266:PHE:CZ	2.55	0.41
11:l:275:SER:H	11:l:282:ARG:NH1	2.18	0.41
12:m:367:PHE:CZ	12:m:369:GLY:HA3	2.56	0.41
13:a:426:GLN:O	13:a:430:GLN:HG2	2.19	0.41
13:a:765:CYS:SG	13:a:792:LEU:HA	2.60	0.41
14:b:306:ARG:HA	14:b:321:LEU:HD12	2.02	0.41
13:f:911:PHE:HE1	13:f:936:GLN:HG3	1.85	0.41
1:11:39:SER:HA	1:11:68:SER:HA	2.03	0.41
1:16:680:MET:HE1	1:16:682:PRO:HA	2.02	0.41
1:14:52:ILE:CD1	1:14:57:ILE:HG12	2.51	0.41
1:13:232:TYR:HE2	1:13:234:LEU:HD23	1.86	0.41
1:17:463:TRP:CD1	1:17:463:TRP:H	2.37	0.41
1:18:11:LEU:H	1:18:32:CYS:HB2	1.85	0.41
1:18:406:ASN:C	1:18:407:LEU:HD23	2.45	0.41
1:1:223:LEU:HD23	1:1:223:LEU:H	1.86	0.41
4:E:117:ILE:HG12	4:E:343:TRP:CG	2.56	0.41
2:H:49:MET:HE1	2:H:105:LEU:HD23	2.03	0.41
4:I:723:ILE:HG22	4:I:723:ILE:O	2.20	0.41
4:I:860:LYS:HA	4:I:888:LEU:HA	2.02	0.41
7:O:88:ILE:O	7:O:93:TRP:HB2	2.20	0.41
1:Z:69:MET:HG2	1:Z:69:MET:O	2.21	0.41
1:Z:299:THR:O	1:Z:477:PRO:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:d:32:TRP:CD2	3:d:70:HIS:HA	2.56	0.41
4:e:21:GLU:HA	4:e:24:LYS:HE2	2.01	0.41
4:i:493:TRP:CE3	4:i:496:LEU:HD23	2.56	0.41
5:j:13:ILE:HD13	6:k:123:VAL:HG11	2.02	0.41
6:k:123:VAL:HA	6:k:126:MET:HE2	2.03	0.41
7:o:116:ASP:CG	7:o:117:ASP:H	2.28	0.41
1:z:295:PHE:CZ	1:z:404:ILE:HD11	2.56	0.41
1:z:533:THR:HG23	1:z:536:GLN:H	1.84	0.41
1:2:629:CYS:HB3	1:2:632:GLU:HB2	2.02	0.41
1:3:224:VAL:HB	1:3:232:TYR:CE1	2.55	0.41
1:3:625:ILE:O	1:3:626:ASN:C	2.62	0.41
1:4:182:ASN:HD22	1:4:244:ALA:HA	1.86	0.41
1:4:184:THR:HA	1:4:241:ARG:O	2.21	0.41
1:4:465:MET:HA	1:4:597:PHE:HD2	1.84	0.41
1:4:473:MET:HA	1:4:491:LEU:O	2.21	0.41
1:5:210:ARG:HB3	1:5:212:TYR:CE1	2.56	0.41
1:5:344:TRP:CD1	1:5:344:TRP:H	2.39	0.41
1:5:345:LEU:HD12	1:5:349:MET:HE2	2.03	0.41
1:5:422:LEU:HD11	1:5:677:TRP:HA	2.02	0.41
1:5:595:LYS:HG2	1:5:597:PHE:CE1	2.56	0.41
1:7:152:LEU:HD23	1:7:152:LEU:HA	1.90	0.41
1:9:351:PHE:HE2	1:9:667:ILE:HG23	1.85	0.41
1:9:543:PHE:HZ	1:9:578:LEU:HB3	1.86	0.41
1:9:584:LEU:HD12	1:9:584:LEU:HA	1.91	0.41
10:N:91:ILE:HG21	10:N:271:VAL:HG13	2.03	0.41
10:N:338:ILE:HD11	10:N:387:GLN:HG2	2.03	0.41
11:L:113:VAL:O	11:L:117:LEU:HD23	2.21	0.41
12:M:237:THR:O	12:M:237:THR:HG22	2.20	0.41
12:M:334:GLN:HG2	12:M:341:PHE:HD2	1.86	0.41
13:A:671:GLU:HA	13:A:697:ALA:O	2.21	0.41
13:A:985:ASP:O	13:A:989:LYS:HG2	2.21	0.41
13:F:520:LYS:HD2	13:F:522:SER:HB3	2.03	0.41
13:F:892:ILE:HG22	13:F:894:ASP:H	1.85	0.41
14:G:251:LEU:HD21	14:G:287:VAL:HA	2.02	0.41
10:n:215:TRP:O	10:n:219:VAL:HG23	2.21	0.41
10:n:418:LEU:HD12	10:n:466:CYS:HB3	2.03	0.41
8:p:320:ARG:NH1	8:p:320:ARG:HA	2.36	0.41
11:l:163:ILE:HB	11:l:197:ASP:OD2	2.20	0.41
11:l:311:LEU:HD23	11:l:311:LEU:HA	1.81	0.41
13:a:472:GLN:HE22	13:a:529:HIS:HD2	1.68	0.41
13:a:778:LEU:HG	13:a:780:PHE:CE1	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:b:521:ASN:HD21	14:b:524:TRP:NE1	2.18	0.41
13:f:651:TYR:O	13:f:655:GLU:HG2	2.21	0.41
13:f:843:ILE:O	13:f:847:GLU:HG3	2.21	0.41
14:g:413:ILE:HD12	14:g:423:ARG:HB2	2.02	0.41
1:11:513:VAL:O	1:11:534:ILE:HG13	2.19	0.41
1:11:525:LEU:HD12	1:11:525:LEU:HA	1.89	0.41
1:19:170:GLU:HB3	1:19:174:GLU:HB3	2.02	0.41
1:19:316:PHE:HB2	1:19:651:ASP:CB	2.49	0.41
1:19:452:GLN:C	1:19:454:GLN:H	2.28	0.41
1:15:529:ARG:HE	1:15:601:TYR:HA	1.85	0.41
1:15:605:MET:HG2	1:15:618:PRO:HD2	2.01	0.41
1:16:355:GLN:HB3	1:16:677:TRP:HD1	1.85	0.41
1:16:550:VAL:HG21	1:16:579:PHE:HB3	2.01	0.41
1:14:543:PHE:HZ	1:14:578:LEU:HB3	1.85	0.41
1:13:28:ASP:HB3	1:13:31:LYS:HB2	2.02	0.41
1:13:189:THR:HG22	1:13:193:GLN:NE2	2.35	0.41
1:13:438:ARG:HH21	1:13:462:ASP:HA	1.84	0.41
1:13:502:PHE:HE1	1:13:631:LEU:HD21	1.84	0.41
1:17:546:GLN:OE1	1:17:580:CYS:HA	2.21	0.41
1:18:311:LEU:HB2	1:18:312:GLN:OE1	2.20	0.41
1:1:1:MET:HE3	1:1:1:MET:O	2.21	0.41
4:E:181:SER:N	4:E:223:LYS:HB3	2.31	0.41
4:E:186:PHE:CE1	4:E:202:LEU:HB3	2.56	0.41
4:E:341:LEU:HD23	4:E:341:LEU:HA	1.96	0.41
2:H:50:GLU:CD	2:H:52:TRP:HB3	2.46	0.41
4:I:362:LEU:HA	4:I:368:SER:HB2	2.02	0.41
4:I:740:LEU:HB2	4:I:766:ALA:HB1	2.02	0.41
4:e:98:ARG:O	4:e:171:SER:HB2	2.20	0.41
4:e:680:LEU:HD12	4:e:683:LEU:HD11	2.02	0.41
4:e:789:TRP:HD1	4:e:820:LEU:HD21	1.85	0.41
4:i:184:PHE:HD2	4:i:226:PHE:CE1	2.38	0.41
5:j:285:LEU:HD12	5:j:305:ARG:NH1	2.35	0.41
7:o:63:LYS:HE3	7:o:63:LYS:HA	2.03	0.41
7:o:75:HIS:CG	7:o:76:PRO:HD2	2.56	0.41
7:o:88:ILE:O	7:o:93:TRP:HB2	2.21	0.41
1:z:188:PRO:HG2	1:z:191:ILE:HD12	2.00	0.41
1:z:649:ILE:HB	1:z:655:TYR:HE2	1.85	0.41
1:2:38:LYS:HB2	1:2:98:PRO:HA	2.02	0.41
1:3:33:ALA:HB1	1:3:69:MET:SD	2.61	0.41
1:3:624:LYS:HB2	1:3:625:ILE:H	1.70	0.41
1:4:96:PHE:HE1	1:4:103:PRO:HB3	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5:584:LEU:HD13	1:5:597:PHE:CE1	2.55	0.41
1:6:57:ILE:HG23	1:6:60:LYS:O	2.21	0.41
1:7:374:GLU:HG2	1:7:375:ASP:N	2.36	0.41
1:8:208:LYS:HG3	1:8:257:PHE:CD2	2.55	0.41
1:9:50:ILE:HD12	1:9:57:ILE:HG21	2.03	0.41
1:12:629:CYS:HB3	1:12:632:GLU:HB2	2.02	0.41
10:N:295:THR:HG23	10:N:305:TYR:HD2	1.86	0.41
10:N:464:LEU:HD23	10:N:464:LEU:HA	1.89	0.41
10:N:863:LEU:H	10:N:889:VAL:HG13	1.84	0.41
8:P:44:ARG:HG2	8:P:74:ARG:HH21	1.85	0.41
8:P:344:MET:HB3	8:P:346:PHE:CE1	2.55	0.41
11:L:27:GLU:OE2	11:L:359:ARG:HB3	2.20	0.41
11:L:298:ASN:H	11:L:300:MET:HE3	1.86	0.41
12:M:134:GLN:HA	12:M:165:ASN:O	2.20	0.41
13:A:600:PHE:CZ	13:A:627:LEU:HD22	2.56	0.41
13:F:911:PHE:HE1	13:F:936:GLN:HG3	1.86	0.41
10:n:400:ASN:O	10:n:403:GLU:HG3	2.20	0.41
10:n:940:ARG:NH2	10:n:964:PHE:HA	2.36	0.41
10:n:988:CYS:HA	10:n:990:TRP:CZ3	2.55	0.41
11:l:212:PHE:HD1	11:l:218:THR:HA	1.86	0.41
12:m:121:ARG:O	12:m:125:GLU:OE1	2.39	0.41
12:m:167:PHE:CD1	12:m:233:MET:HE1	2.56	0.41
14:g:359:PHE:CD1	14:g:370:VAL:HG22	2.55	0.41
1:19:353:TYR:CD2	1:19:672:PRO:HB3	2.55	0.41
1:19:376:PHE:HB2	1:19:379:LYS:HE2	2.02	0.41
1:16:37:CYS:HB3	1:16:95:TYR:HB3	2.03	0.41
1:16:668:ILE:HG22	1:16:669:ASN:O	2.21	0.41
1:13:137:LYS:H	1:13:137:LYS:HG2	1.67	0.41
1:13:201:THR:HG23	1:13:262:SER:O	2.20	0.41
1:18:454:GLN:O	1:18:456:PRO:HD3	2.20	0.41
4:E:330:LYS:H	4:E:581:SER:CB	2.32	0.41
4:E:708:CYS:HB3	4:E:739:ILE:HD11	2.01	0.41
4:E:903:ASN:HB2	4:E:926:PHE:CE1	2.56	0.41
4:I:348:CYS:HB2	4:I:373:HIS:HB2	2.02	0.41
5:J:12:GLU:OE2	6:K:117:ASP:HA	2.21	0.41
5:J:29:ASN:N	5:J:32:TRP:HB2	2.36	0.41
5:J:137:GLU:CD	5:J:139:VAL:HB	2.46	0.41
2:c:111:TRP:C	2:c:113:LYS:H	2.27	0.41
4:e:186:PHE:HD2	4:e:228:ILE:HG12	1.85	0.41
4:e:640:ILE:O	4:e:669:ALA:HA	2.20	0.41
4:i:639:ARG:HB3	4:i:641:LYS:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:i:750:ASN:O	4:i:751:LEU:HD23	2.21	0.41
5:j:380:TYR:HE2	5:j:421:ARG:HH21	1.69	0.41
6:k:146:THR:O	6:k:147:GLU:HG3	2.21	0.41
8:q:245:THR:HB	10:n:472:LYS:HZ1	1.86	0.41
8:q:255:ILE:HG21	10:n:407:PRO:HB3	2.02	0.41
1:z:195:TYR:HB3	1:z:267:LEU:HD11	2.02	0.41
1:3:460:PHE:CE2	1:3:463:TRP:CD1	3.09	0.41
1:4:24:GLU:HG3	1:4:78:ARG:CZ	2.51	0.41
1:4:118:LEU:HD21	1:4:265:LEU:HD22	2.03	0.41
1:4:543:PHE:HZ	1:4:578:LEU:HB3	1.86	0.41
1:5:7:LEU:HG	1:5:25:ILE:HG21	2.03	0.41
1:5:118:LEU:HD13	1:5:181:MET:SD	2.60	0.41
1:5:465:MET:SD	1:5:597:PHE:HB3	2.61	0.41
1:8:410:SER:HA	1:8:475:PHE:CE2	2.55	0.41
1:9:582:GLU:CD	1:9:599:ARG:HD3	2.45	0.41
1:12:296:MET:HE3	1:12:296:MET:HB3	1.95	0.41
10:N:356:THR:O	10:N:360:ILE:HG12	2.19	0.41
10:N:607:GLN:HE21	10:N:631:LYS:HD2	1.86	0.41
8:P:490:ASP:HB3	8:P:498:ALA:HB1	2.02	0.41
8:P:572:ARG:NH1	8:P:578:LEU:HB2	2.36	0.41
12:M:367:PHE:CZ	12:M:369:GLY:HA3	2.56	0.41
13:A:426:GLN:O	13:A:430:GLN:HG2	2.19	0.41
14:B:486:GLY:HA2	14:B:513:ILE:HD12	2.03	0.41
13:F:287:LYS:HD3	13:F:541:GLU:CD	2.46	0.41
13:F:496:MET:HE2	13:F:517:TYR:CE1	2.56	0.41
8:p:3:ILE:O	8:p:4:GLN:C	2.63	0.41
11:l:325:GLU:O	11:l:329:GLN:HB2	2.21	0.41
12:m:237:THR:O	12:m:237:THR:HG22	2.20	0.41
13:f:688:CYS:C	13:f:692:CYS:SG	3.04	0.41
13:f:812:MET:O	13:f:813:LYS:HE2	2.21	0.41
13:f:1128:ALA:HB2	14:g:149:PRO:HA	2.03	0.41
1:11:24:GLU:HB2	1:11:78:ARG:NH2	2.34	0.41
1:11:93:VAL:O	1:11:106:THR:HA	2.19	0.41
1:11:359:LYS:HE2	1:11:361:VAL:HG22	2.01	0.41
1:11:440:MET:HE3	1:11:444:LEU:HB3	2.03	0.41
1:15:49:LEU:HB3	1:15:51:HIS:CE1	2.56	0.41
1:15:144:MET:HE1	1:15:679:LYS:HD3	2.03	0.41
1:16:20:MET:HE1	1:16:282:TYR:CD1	2.56	0.41
1:16:615:LEU:HD12	1:16:639:LEU:HD13	2.01	0.41
1:14:47:ARG:NH2	1:14:88:GLU:HG2	2.36	0.41
1:13:26:THR:HA	1:13:76:LEU:HD23	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:13:42:ILE:HD13	1:13:52:ILE:HD11	2.01	0.41
1:17:374:GLU:HG2	1:17:375:ASP:N	2.35	0.41
1:18:157:PRO:HD3	1:18:387:GLY:HA2	2.02	0.41
1:18:505:LYS:O	1:18:508:GLU:HB3	2.19	0.41
1:1:516:PHE:HB3	1:1:519:ILE:CG2	2.50	0.41
1:1:554:ILE:HD13	1:1:554:ILE:HA	1.88	0.41
1:1:575:ILE:HD13	1:1:575:ILE:HA	1.93	0.41
3:D:32:TRP:CD1	3:D:70:HIS:HD1	2.39	0.41
3:D:112:LYS:O	3:D:116:ILE:HG13	2.21	0.41
4:E:470:HIS:CE1	4:E:472:SER:HB3	2.56	0.41
4:E:857:GLN:O	4:E:887:HIS:HB2	2.21	0.41
4:I:231:LEU:HG	4:I:236:TRP:CZ2	2.56	0.41
4:I:647:GLU:O	4:I:650:ILE:HG22	2.21	0.41
5:J:13:ILE:HD13	6:K:123:VAL:HG11	2.02	0.41
5:J:57:THR:HA	5:J:73:ARG:HH12	1.85	0.41
5:J:154:LEU:HD12	5:J:164:VAL:O	2.20	0.41
5:J:220:ILE:HG22	5:J:221:PRO:HD3	2.03	0.41
5:J:260:LYS:HE3	5:J:260:LYS:HB2	1.86	0.41
5:J:352:SER:HB3	5:J:409:TRP:CZ2	2.56	0.41
7:O:50:PHE:CE2	7:O:110:LEU:HD11	2.56	0.41
8:Q:258:LEU:HA	8:Q:261:SER:HB2	2.02	0.41
1:Z:23:MET:C	1:Z:78:ARG:HE	2.29	0.41
1:Z:533:THR:O	1:Z:537:ILE:HG12	2.20	0.41
2:c:45:LEU:O	2:c:90:THR:HA	2.21	0.41
2:c:91:ILE:HD12	2:c:98:GLN:HA	2.02	0.41
4:e:47:LYS:NZ	4:e:47:LYS:HB3	2.33	0.41
4:e:121:ILE:HB	4:e:165:ASN:HD22	1.86	0.41
4:e:126:ILE:HG22	4:e:128:ASN:N	2.28	0.41
4:e:163:LEU:HB2	4:e:229:ASP:OD2	2.20	0.41
4:e:361:SER:HB2	4:e:365:ARG:NH2	2.36	0.41
4:e:542:GLN:HB3	4:e:572:GLN:O	2.21	0.41
4:e:658:LYS:HG3	4:e:686:ASN:ND2	2.36	0.41
4:e:903:ASN:HB2	4:e:926:PHE:CE1	2.56	0.41
4:i:112:LYS:HB3	4:i:164:LYS:HZ2	1.86	0.41
4:i:207:TRP:CD1	4:i:209:SER:HG	2.39	0.41
4:i:295:LYS:HD3	4:i:295:LYS:HA	1.87	0.41
4:i:350:LYS:HA	4:i:353:ILE:HD12	2.03	0.41
4:i:450:HIS:HB3	4:i:453:VAL:HG23	2.03	0.41
4:i:603:THR:OG1	4:i:643:THR:HG23	2.20	0.41
4:i:691:TYR:CE2	4:i:720:LYS:HD2	2.55	0.41
4:i:910:PHE:HE2	4:i:919:LEU:HB2	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:j:93:ILE:HD12	5:j:133:TRP:CZ3	2.56	0.41
5:j:184:ALA:C	5:j:223:LEU:HD12	2.44	0.41
5:j:305:ARG:HD3	5:j:305:ARG:HA	1.83	0.41
6:k:7:GLN:CG	6:k:45:VAL:H	2.34	0.41
9:r:62:LEU:O	9:r:63:CYS:HB2	2.21	0.41
1:z:157:PRO:HA	1:z:160:VAL:HB	2.03	0.41
1:z:348:GLU:C	1:z:349:MET:HE2	2.46	0.41
1:z:521:ALA:HA	1:z:524:LEU:HD12	2.02	0.41
1:z:550:VAL:HG11	1:z:579:PHE:CD2	2.56	0.41
1:z:614:ASN:HA	1:z:645:LYS:HB3	2.03	0.41
1:2:21:VAL:HG21	1:2:115:GLU:HB2	2.03	0.41
1:2:122:ILE:O	1:2:147:TRP:HB2	2.20	0.41
1:3:427:ILE:HD11	1:3:440:MET:HE3	2.03	0.41
1:4:19:CYS:SG	1:4:79:MET:HG2	2.61	0.41
1:4:130:MET:HG3	1:5:62:ASP:OD1	2.20	0.41
1:5:675:PHE:CZ	1:5:679:LYS:HD2	2.56	0.41
1:6:137:LYS:HB2	1:6:138:LYS:HD2	2.03	0.41
1:7:411:PRO:HG2	1:7:488:PHE:CG	2.56	0.41
1:8:213:TRP:CD1	1:8:214:SER:N	2.89	0.41
1:8:422:LEU:HD22	1:8:673:PHE:HD2	1.86	0.41
1:9:114:ILE:HG23	1:9:116:ILE:HG13	2.02	0.41
1:12:39:SER:OG	1:12:96:PHE:HB2	2.21	0.41
1:12:464:LEU:CD2	1:12:471:GLN:HB2	2.50	0.41
1:12:562:LYS:HG3	1:12:567:LEU:O	2.21	0.41
10:N:717:SER:HA	10:N:745:ARG:HD3	2.03	0.41
10:N:748:HIS:CD2	10:N:989:TRP:CE2	3.09	0.41
8:P:513:LEU:HD23	8:P:582:TYR:CE2	2.56	0.41
11:L:72:THR:O	11:L:76:VAL:HG23	2.21	0.41
12:M:62:ARG:HA	12:M:86:ARG:NH2	2.36	0.41
12:M:334:GLN:HG2	12:M:341:PHE:CD2	2.56	0.41
13:A:255:LYS:HG2	13:A:392:VAL:HG11	2.02	0.41
13:A:279:ILE:HG23	13:A:301:GLU:OE1	2.20	0.41
13:A:287:LYS:HE2	13:A:287:LYS:HB3	1.93	0.41
13:A:409:SER:HA	13:A:448:LYS:HD3	2.03	0.41
13:A:765:CYS:SG	13:A:792:LEU:HA	2.60	0.41
13:A:1041:GLY:O	13:A:1045:VAL:HG23	2.21	0.41
13:A:1059:LEU:HD11	13:A:1061:ARG:O	2.21	0.41
13:A:1071:SER:HA	13:A:1074:CYS:SG	2.61	0.41
14:B:559:MET:HA	14:B:566:ILE:HA	2.02	0.41
13:F:324:ASP:HA	13:F:371:THR:OG1	2.21	0.41
13:F:508:VAL:HG13	13:F:509:PHE:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:628:GLN:HG3	13:F:661:PHE:HE1	1.86	0.41
13:F:752:GLY:C	13:F:782:SER:HB2	2.45	0.41
13:F:762:LYS:O	13:F:766:LEU:HG	2.21	0.41
10:n:293:GLU:HA	10:n:296:CYS:SG	2.61	0.41
10:n:436:PHE:CD2	10:n:488:CYS:HB3	2.55	0.41
10:n:574:ASN:HB3	10:n:577:LEU:HB2	2.03	0.41
10:n:609:LEU:HD21	10:n:611:PHE:HE1	1.86	0.41
10:n:824:SER:O	10:n:830:CYS:HB3	2.19	0.41
8:p:39:GLU:O	8:p:43:GLN:HG3	2.21	0.41
8:p:64:ARG:HH21	8:p:340:ASP:CA	2.27	0.41
11:l:34:GLY:HA3	11:l:58:LYS:HG3	2.03	0.41
11:l:113:VAL:O	11:l:117:LEU:HD23	2.21	0.41
11:l:187:LEU:HD11	11:l:407:GLU:HG2	2.02	0.41
12:m:334:GLN:HG2	12:m:341:PHE:HD2	1.86	0.41
13:a:630:TRP:CZ2	13:a:634:ILE:HD11	2.56	0.41
13:a:1041:GLY:O	13:a:1045:VAL:HG23	2.21	0.41
14:b:458:MET:SD	14:b:460:LYS:HB3	2.61	0.41
14:b:559:MET:HA	14:b:566:ILE:HA	2.03	0.41
13:f:775:ILE:HG13	13:f:802:LEU:HD13	2.01	0.41
13:f:1091:ASN:HB2	13:f:1150:TRP:CD2	2.55	0.41
14:g:309:PHE:HD1	14:g:318:VAL:HG22	1.86	0.41
1:11:519:ILE:HG23	1:11:524:LEU:HD11	2.03	0.41
1:19:10:SER:HB3	1:19:13:ASN:HB3	2.03	0.41
1:19:116:ILE:HD11	1:19:192:LEU:HD22	2.03	0.41
1:19:178:LEU:HB3	1:19:247:VAL:O	2.20	0.41
1:19:503:GLU:HB3	1:19:507:LYS:NZ	2.36	0.41
1:19:656:LEU:HD23	1:19:656:LEU:HA	1.86	0.41
1:15:210:ARG:HB3	1:15:212:TYR:CE1	2.56	0.41
1:15:393:THR:HB	1:15:402:ASP:OD2	2.20	0.41
1:15:432:TYR:CE1	1:16:198:ILE:HG21	2.56	0.41
1:15:449:TYR:CD1	1:15:456:PRO:HG2	2.56	0.41
1:15:478:THR:HG22	1:15:644:LEU:HD11	2.03	0.41
1:16:19:CYS:HA	1:16:25:ILE:HD11	2.03	0.41
1:16:151:LEU:HD13	1:16:261:ILE:HD12	2.01	0.41
1:16:172:PRO:O	1:16:175:ILE:HB	2.21	0.41
1:14:30:SER:HA	1:14:33:ALA:HB3	2.03	0.41
1:14:240:ARG:HD3	1:14:243:GLU:OE1	2.21	0.41
1:14:265:LEU:O	1:14:283:LYS:HA	2.21	0.41
1:14:449:TYR:CE1	1:14:456:PRO:HD2	2.56	0.41
1:13:38:LYS:HB2	1:13:98:PRO:HB3	2.03	0.41
1:13:224:VAL:HB	1:13:232:TYR:CE1	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:17:308:CYS:SG	1:17:345:LEU:HB2	2.60	0.41
1:17:667:ILE:HG22	1:17:668:ILE:N	2.35	0.41
1:18:259:GLY:O	1:18:289:ARG:HA	2.20	0.41
1:18:311:LEU:HA	1:18:311:LEU:HD23	1.82	0.41
1:18:411:PRO:O	1:18:413:VAL:HG13	2.21	0.41
1:1:49:LEU:HB2	1:1:78:ARG:HB3	2.03	0.41
4:E:331:GLN:HB3	4:E:495:PHE:HZ	1.86	0.41
2:H:69:GLU:O	2:H:71:MET:O	2.39	0.41
4:I:863:HIS:HA	4:I:892:GLN:HB2	2.02	0.41
4:I:884:PRO:HB2	13:F:813:LYS:HD2	2.02	0.41
5:J:2:GLU:HB2	6:K:139:PHE:HZ	1.85	0.41
5:J:290:PHE:CE2	5:J:351:VAL:HB	2.56	0.41
7:O:64:PRO:HB3	7:O:93:TRP:CG	2.56	0.41
1:Z:29:ILE:HB	1:Z:73:THR:O	2.21	0.41
2:c:43:ASN:HD22	13:a:425:HIS:CD2	2.39	0.41
3:d:110:ARG:O	3:d:114:MET:HG2	2.20	0.41
3:d:112:LYS:O	3:d:116:ILE:HG13	2.21	0.41
4:e:736:PHE:O	4:e:740:LEU:HG	2.21	0.41
4:e:898:ILE:HD12	4:e:924:ASN:ND2	2.36	0.41
2:h:50:GLU:CD	2:h:52:TRP:HB3	2.45	0.41
2:h:52:TRP:HD1	2:h:53:VAL:HG13	1.85	0.41
4:i:214:ILE:O	4:i:218:LEU:HG	2.21	0.41
4:i:573:ILE:HG13	4:i:596:LEU:HD11	2.04	0.41
4:i:647:GLU:O	4:i:650:ILE:HG22	2.21	0.41
7:o:23:ALA:HA	7:o:35:ALA:HA	2.03	0.41
1:z:513:VAL:HG11	1:z:624:LYS:H	1.85	0.41
1:z:514:THR:HA	1:z:533:THR:HA	2.02	0.41
1:2:209:THR:HB	1:2:261:ILE:HD13	2.03	0.41
1:3:186:GLU:HB3	1:3:241:ARG:NH1	2.36	0.41
1:5:198:ILE:HD12	1:5:268:VAL:HG21	2.02	0.41
1:5:373:LEU:HA	1:5:373:LEU:HD23	1.85	0.41
1:5:478:THR:HG21	1:5:489:ARG:HB2	2.03	0.41
1:6:668:ILE:HG22	1:6:669:ASN:O	2.21	0.41
1:6:680:MET:HE1	1:6:682:PRO:HA	2.02	0.41
1:7:120:ALA:O	1:7:122:ILE:HG13	2.21	0.41
1:7:281:LEU:HD23	1:7:281:LEU:HA	1.83	0.41
1:7:353:TYR:CD2	1:7:672:PRO:HB3	2.56	0.41
1:8:20:MET:HB3	1:8:23:MET:CB	2.51	0.41
1:8:451:GLN:O	1:8:453:VAL:HG23	2.20	0.41
1:8:617:ILE:O	1:8:648:PHE:HA	2.20	0.41
1:9:316:PHE:HB2	1:9:651:ASP:CB	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9:473:MET:HA	1:9:491:LEU:O	2.21	0.41
10:N:609:LEU:HD21	10:N:611:PHE:HE1	1.86	0.41
8:P:337:LEU:HB2	8:P:364:TRP:CZ2	2.55	0.41
8:P:694:SER:HB3	8:P:706:LYS:HG2	2.03	0.41
12:M:121:ARG:O	12:M:125:GLU:OE1	2.39	0.41
12:M:325:GLU:O	12:M:328:GLU:HG3	2.21	0.41
13:A:472:GLN:HE22	13:A:529:HIS:HD2	1.68	0.41
13:A:1128:ALA:HA	13:A:1131:ARG:HD2	2.02	0.41
13:F:1077:LEU:O	13:F:1081:ILE:HG12	2.20	0.41
14:G:284:LEU:HD11	14:G:566:ILE:HD12	2.02	0.41
10:n:443:ARG:HA	10:n:443:ARG:HD3	1.89	0.41
10:n:748:HIS:CD2	10:n:989:TRP:CE2	3.09	0.41
8:p:691:VAL:HG22	8:p:707:VAL:HG22	2.02	0.41
8:p:732:VAL:HG21	8:p:749:PRO:HD2	2.03	0.41
11:l:54:ALA:HB3	11:l:58:LYS:HB3	2.03	0.41
12:m:334:GLN:HG2	12:m:341:PHE:CD2	2.56	0.41
12:m:347:ASN:ND2	12:m:350:LYS:HB2	2.36	0.41
13:a:600:PHE:CZ	13:a:627:LEU:HD22	2.56	0.41
13:a:918:HIS:HB3	13:a:1160:TRP:CH2	2.56	0.41
13:a:956:VAL:HA	13:a:960:TYR:HE1	1.86	0.41
13:f:1157:ASP:CG	13:f:1160:TRP:HB3	2.46	0.41
14:g:155:PRO:HA	14:g:251:LEU:HB3	2.03	0.41
1:11:584:LEU:HD23	1:11:597:PHE:CE2	2.56	0.41
1:19:550:VAL:HG11	1:19:579:PHE:CD2	2.56	0.41
1:15:44:GLY:C	1:15:61:GLU:HA	2.46	0.41
1:15:123:TYR:CZ	1:14:64:VAL:HG21	2.55	0.41
1:14:2:SER:OG	1:14:4:GLN:HG3	2.21	0.41
1:13:9:LEU:O	1:13:32:CYS:HB3	2.21	0.41
1:13:402:ASP:OD1	1:13:440:MET:HG2	2.21	0.41
1:18:97:CYS:HB2	1:18:100:GLN:HB2	2.02	0.41
1:18:151:LEU:HD12	1:18:261:ILE:HD11	2.03	0.41
1:18:212:TYR:HB3	1:18:221:TYR:HB3	2.03	0.41
1:18:464:LEU:HD23	1:18:464:LEU:HA	1.87	0.41
1:1:333:LYS:HE2	1:1:333:LYS:HB3	1.70	0.40
3:D:110:ARG:O	3:D:114:MET:HG2	2.20	0.40
4:E:55:ALA:O	4:E:59:LEU:HG	2.21	0.40
4:E:460:ILE:HA	4:E:463:MET:HG3	2.02	0.40
4:E:542:GLN:HB3	4:E:572:GLN:O	2.20	0.40
4:E:890:ASP:HA	4:E:918:THR:O	2.21	0.40
4:I:493:TRP:CE3	4:I:496:LEU:HD23	2.56	0.40
4:I:817:LEU:HD11	4:I:849:LEU:HD21	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:24:GLU:HG2	1:Z:76:LEU:HB3	2.02	0.40
1:Z:474:CYS:HB3	1:Z:491:LEU:HB2	2.03	0.40
2:c:72:CYS:HA	4:e:12:TRP:CZ3	2.56	0.40
4:e:389:LYS:HE2	4:e:393:GLN:NE2	2.36	0.40
4:e:425:SER:O	4:e:428:PRO:HD2	2.21	0.40
4:i:125:PHE:CZ	4:i:169:ALA:HB2	2.56	0.40
4:i:348:CYS:SG	4:i:369:LEU:HG	2.61	0.40
9:r:53:MET:O	9:r:54:MET:HE2	2.22	0.40
1:2:97:CYS:HB2	1:2:100:GLN:OE1	2.21	0.40
1:4:581:LEU:HD22	1:4:596:LEU:HB3	2.03	0.40
1:5:51:HIS:HB2	1:5:76:LEU:C	2.47	0.40
1:6:448:VAL:HG12	1:6:456:PRO:HG3	2.03	0.40
1:9:440:MET:HE1	1:9:445:ARG:HB2	2.03	0.40
10:N:692:LEU:HB2	10:N:718:LEU:HD22	2.02	0.40
8:P:8:MET:HE1	8:P:72:LEU:HD13	2.03	0.40
8:P:36:PHE:HB3	8:P:38:VAL:HG23	2.03	0.40
8:P:467:LEU:HD21	8:P:481:PHE:CE2	2.56	0.40
8:P:602:THR:OG1	8:P:607:LEU:HB2	2.21	0.40
13:A:850:SER:O	13:A:854:ILE:HG22	2.22	0.40
13:A:918:HIS:HB3	13:A:1160:TRP:CH2	2.56	0.40
14:B:525:TRP:NE1	14:B:537:HIS:HB2	2.36	0.40
13:F:777:LYS:HA	13:F:804:TYR:HB3	2.02	0.40
13:F:1091:ASN:HB2	13:F:1150:TRP:CD2	2.56	0.40
14:G:155:PRO:HA	14:G:251:LEU:HB3	2.03	0.40
14:G:413:ILE:HD12	14:G:423:ARG:HB2	2.03	0.40
13:a:236:TYR:CG	13:a:237:GLN:N	2.87	0.40
14:b:447:LEU:HA	14:b:470:GLN:HB3	2.03	0.40
14:b:453:CYS:N	14:b:461:VAL:HG13	2.33	0.40
13:f:676:ILE:HB	13:f:702:ILE:HG12	2.03	0.40
14:g:482:TRP:CE3	14:g:494:LEU:HB3	2.56	0.40
1:19:177:ASN:OD1	1:19:359:LYS:HD3	2.20	0.40
1:15:19:CYS:HB2	1:15:25:ILE:HD11	2.02	0.40
1:15:351:PHE:CZ	1:15:364:ILE:HD11	2.56	0.40
1:15:422:LEU:HD11	1:15:677:TRP:HA	2.01	0.40
1:16:18:LEU:HD13	1:16:114:ILE:HD12	2.03	0.40
1:16:556:LEU:HD12	1:16:556:LEU:HA	1.93	0.40
1:14:96:PHE:CD1	1:14:103:PRO:HA	2.56	0.40
1:13:97:CYS:SG	1:13:102:VAL:HG21	2.61	0.40
1:13:486:LYS:NZ	1:13:567:LEU:HA	2.36	0.40
1:17:140:TRP:HZ3	1:17:142:TRP:CE2	2.38	0.40
1:1:29:ILE:HG22	1:1:95:TYR:OH	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:525:LEU:HD23	13:A:710:ASN:HB2	2.04	0.40
2:C:129:PHE:CZ	3:D:69:LEU:HD21	2.57	0.40
3:D:39:GLU:O	3:D:41:PRO:HD3	2.20	0.40
3:D:45:TYR:CE1	3:D:85:GLU:HG2	2.56	0.40
4:E:305:MET:HE2	4:E:323:PHE:HA	2.02	0.40
4:E:843:GLU:O	4:E:847:GLN:HG2	2.21	0.40
5:J:258:TYR:HE1	5:J:284:SER:HB3	1.86	0.40
7:O:79:ASN:H	7:O:119:LEU:HD23	1.86	0.40
8:Q:227:TYR:HB3	8:Q:230:LYS:HG3	2.03	0.40
9:R:53:MET:O	9:R:54:MET:HE2	2.21	0.40
9:R:62:LEU:O	9:R:63:CYS:HB2	2.21	0.40
1:Z:588:PRO:HB2	1:Z:590:ASN:OD1	2.21	0.40
1:Z:605:MET:HE3	1:Z:605:MET:O	2.22	0.40
1:Z:657:ALA:HB1	1:Z:661:ASP:HB3	2.03	0.40
4:e:55:ALA:O	4:e:59:LEU:HG	2.21	0.40
4:i:485:PHE:CE2	4:i:497:GLY:HA3	2.57	0.40
5:j:43:ARG:HA	5:j:66:TRP:NE1	2.36	0.40
8:q:206:THR:H	8:q:275:LEU:HD23	1.86	0.40
1:z:213:TRP:CE2	1:z:215:GLN:HG2	2.56	0.40
1:z:510:TYR:HB2	1:z:625:ILE:HD12	2.03	0.40
1:2:44:GLY:C	1:2:91:VAL:HG22	2.46	0.40
1:2:501:LEU:HD12	1:2:501:LEU:HA	1.96	0.40
1:3:618:PRO:HB3	1:3:655:TYR:CD2	2.57	0.40
1:4:287:MET:HE3	1:4:288:PHE:H	1.85	0.40
1:4:449:TYR:CE1	1:4:456:PRO:HD2	2.56	0.40
1:4:455:ALA:HA	1:4:456:PRO:HD3	1.82	0.40
1:5:15:THR:O	1:5:109:LEU:HD12	2.20	0.40
1:5:160:VAL:HG12	1:5:379:LYS:HE2	2.02	0.40
1:5:198:ILE:HG22	1:5:200:HIS:CD2	2.56	0.40
1:6:151:LEU:HD13	1:6:261:ILE:HD12	2.03	0.40
1:6:172:PRO:O	1:6:175:ILE:HB	2.21	0.40
1:8:406:ASN:C	1:8:407:LEU:HD23	2.47	0.40
1:12:57:ILE:HG23	1:12:63:THR:HB	2.04	0.40
1:12:365:LEU:HD12	1:12:365:LEU:HA	1.88	0.40
10:N:469:GLY:O	10:N:472:LYS:HB2	2.20	0.40
10:N:988:CYS:HA	10:N:990:TRP:CZ3	2.55	0.40
11:L:324:LYS:HA	11:L:327:ASP:OD2	2.21	0.40
11:L:375:GLN:CG	11:L:419:VAL:HG23	2.51	0.40
13:A:874:MET:HE1	13:A:906:LEU:HD13	2.02	0.40
14:B:521:ASN:HD21	14:B:524:TRP:NE1	2.19	0.40
13:F:288:TRP:CD1	13:F:350:ILE:HG13	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:F:1091:ASN:HB2	13:F:1150:TRP:CG	2.56	0.40
13:F:1121:LEU:HD11	13:F:1126:TYR:HE2	1.86	0.40
14:G:309:PHE:HD1	14:G:318:VAL:HG22	1.86	0.40
8:p:335:LYS:HB3	8:p:348:LEU:HD23	2.02	0.40
11:l:72:THR:O	11:l:76:VAL:HG23	2.21	0.40
11:l:410:GLU:HA	11:l:413:SER:OG	2.21	0.40
13:a:667:LYS:HE3	13:a:667:LYS:HB3	1.93	0.40
13:a:979:THR:HG23	13:a:1008:VAL:HB	2.02	0.40
13:f:206:LYS:HE3	13:f:206:LYS:HB2	1.82	0.40
13:f:288:TRP:CD1	13:f:350:ILE:HG13	2.56	0.40
13:f:785:VAL:HG12	13:f:785:VAL:O	2.21	0.40
1:11:408:MET:HE3	1:11:473:MET:HE3	2.04	0.40
1:19:653:ASP:O	1:19:657:ALA:HB2	2.22	0.40
1:15:122:ILE:HG13	1:15:123:TYR:N	2.36	0.40
1:15:376:PHE:CE1	1:15:390:ILE:HG12	2.56	0.40
1:16:137:LYS:HB2	1:16:138:LYS:HD2	2.03	0.40
1:14:36:LYS:HG3	1:14:97:CYS:SG	2.61	0.40
1:14:413:VAL:HG21	1:14:565:LEU:HD12	2.03	0.40
1:14:577:GLN:NE2	1:14:605:MET:H	2.18	0.40
1:13:102:VAL:HG23	1:13:102:VAL:O	2.20	0.40
1:13:200:HIS:CE1	1:13:283:LYS:HE3	2.56	0.40
1:13:296:MET:HE1	1:13:671:VAL:O	2.21	0.40
1:13:639:LEU:HD23	1:13:642:LEU:HD12	2.03	0.40
1:17:353:TYR:CD2	1:17:672:PRO:HB3	2.57	0.40
1:17:411:PRO:HG2	1:17:488:PHE:CG	2.56	0.40
1:18:20:MET:HE2	1:18:282:TYR:CZ	2.56	0.40
1:18:40:PHE:HE2	1:18:42:ILE:HB	1.87	0.40
1:18:171:GLY:O	1:18:174:GLU:HG2	2.21	0.40
1:18:210:ARG:HD3	1:18:212:TYR:OH	2.21	0.40
1:1:561:LEU:HD23	1:1:561:LEU:HA	1.90	0.40
1:1:584:LEU:HD23	1:1:597:PHE:CE2	2.56	0.40
2:C:96:SER:O	2:C:100:ARG:HG2	2.22	0.40
4:E:163:LEU:HB2	4:E:229:ASP:OD2	2.20	0.40
4:E:647:GLU:HG2	4:E:648:PRO:CD	2.51	0.40
4:e:32:GLU:HB3	4:e:69:MET:SD	2.61	0.40
4:e:186:PHE:CE1	4:e:202:LEU:HB3	2.56	0.40
4:i:566:ALA:O	4:i:570:MET:HG3	2.22	0.40
4:i:904:GLU:H	9:r:66:GLN:CD	2.09	0.40
6:k:128:LYS:HA	6:k:128:LYS:HD2	1.84	0.40
8:q:227:TYR:HB3	8:q:230:LYS:HG3	2.04	0.40
1:z:171:GLY:O	1:z:175:ILE:HG12	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:164:ASP:HA	1:2:168:PHE:CE2	2.56	0.40
1:4:240:ARG:HD3	1:4:243:GLU:OE1	2.21	0.40
1:4:431:PHE:HB2	1:4:460:PHE:CD1	2.55	0.40
1:5:9:LEU:HD23	1:5:9:LEU:HA	1.98	0.40
1:5:160:VAL:HG11	1:5:379:LYS:HB3	2.03	0.40
1:5:353:TYR:CE2	1:5:672:PRO:HB3	2.56	0.40
1:6:408:MET:HE3	1:6:469:MET:HB2	2.03	0.40
1:6:556:LEU:HD12	1:6:556:LEU:HA	1.94	0.40
1:8:293:TYR:H	1:8:451:GLN:NE2	2.19	0.40
1:9:501:LEU:HD12	1:9:501:LEU:HA	1.90	0.40
1:12:401:LEU:HD23	1:12:406:ASN:HD21	1.86	0.40
1:12:408:MET:HE1	1:12:470:ASP:N	2.36	0.40
1:12:431:PHE:CE2	1:12:556:LEU:HD21	2.56	0.40
10:N:87:GLY:O	10:N:211:ARG:HG3	2.21	0.40
10:N:334:ALA:O	10:N:338:ILE:HG12	2.21	0.40
10:N:418:LEU:HD12	10:N:466:CYS:HB3	2.03	0.40
10:N:487:HIS:O	10:N:491:GLU:HG3	2.21	0.40
10:N:574:ASN:HB3	10:N:577:LEU:HB2	2.02	0.40
10:N:588:ASP:HA	10:N:617:LEU:HB2	2.02	0.40
10:N:756:LEU:HB3	10:N:761:ILE:CG1	2.51	0.40
8:P:446:VAL:C	8:P:538:ARG:HH21	2.29	0.40
11:L:258:VAL:HG13	11:L:266:PHE:CZ	2.56	0.40
11:L:271:ALA:HB2	11:L:365:ALA:HB3	2.04	0.40
11:L:325:GLU:O	11:L:329:GLN:HB2	2.20	0.40
13:A:475:LEU:HD23	13:A:475:LEU:HA	1.95	0.40
13:A:802:LEU:HD12	13:A:802:LEU:HA	1.87	0.40
13:F:638:VAL:HG22	14:G:249:LYS:HG3	2.02	0.40
10:n:88:ALA:C	10:n:93:LYS:HE2	2.46	0.40
10:n:205:TYR:C	10:n:206:LEU:HD22	2.47	0.40
10:n:607:GLN:HE21	10:n:631:LYS:HD2	1.87	0.40
8:p:44:ARG:HD3	8:p:72:LEU:HD23	2.02	0.40
8:p:572:ARG:NH1	8:p:578:LEU:HB2	2.35	0.40
11:l:271:ALA:HB1	11:l:272:PRO:HD2	2.03	0.40
12:m:112:LEU:HD23	12:m:112:LEU:HA	1.79	0.40
12:m:206:ALA:HB2	12:m:301:ALA:HB2	2.02	0.40
13:a:802:LEU:HD12	13:a:802:LEU:HA	1.87	0.40
13:a:1097:PHE:CB	13:a:1102:MET:HE3	2.50	0.40
14:b:163:ILE:HD13	14:b:163:ILE:HA	1.93	0.40
13:f:324:ASP:HA	13:f:371:THR:OG1	2.21	0.40
13:f:419:HIS:NE2	13:f:720:VAL:HG11	2.37	0.40
13:f:921:LEU:HB3	13:f:924:ASN:HD21	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:11:40:PHE:HB3	1:11:95:TYR:CD2	2.56	0.40
1:11:207:LYS:HD3	1:11:207:LYS:HA	1.74	0.40
1:11:223:LEU:H	1:11:223:LEU:HD23	1.86	0.40
1:19:489:ARG:HD3	1:19:489:ARG:HA	1.99	0.40
1:19:568:GLU:HG3	1:19:570:LYS:HG2	2.02	0.40
1:15:30:SER:HA	1:15:33:ALA:HB3	2.03	0.40
1:15:615:LEU:HB3	1:15:617:ILE:HG13	2.02	0.40
1:14:504:GLN:HA	1:14:507:LYS:HD2	2.02	0.40
1:13:425:VAL:O	1:13:456:PRO:HA	2.20	0.40
1:13:623:PRO:HG2	1:13:630:CYS:HB3	2.04	0.40
1:13:624:LYS:HA	1:13:629:CYS:HA	2.02	0.40
1:18:20:MET:HE1	1:18:116:ILE:H	1.86	0.40
1:18:615:LEU:HB3	1:18:617:ILE:HD11	2.03	0.40
1:1:22:GLY:HA2	1:3:60:LYS:NZ	2.37	0.40
2:C:101:MET:O	2:C:105:LEU:HD23	2.21	0.40
4:E:484:MET:HG3	4:E:489:VAL:HB	2.03	0.40
4:E:596:LEU:HD21	4:E:599:LEU:HB2	2.04	0.40
4:I:101:LEU:HD12	4:I:170:TRP:CE3	2.57	0.40
4:I:300:PHE:HB3	4:I:305:MET:N	2.37	0.40
4:I:541:LEU:HD23	4:I:541:LEU:HA	1.93	0.40
4:I:564:VAL:HG22	4:I:592:HIS:NE2	2.36	0.40
4:I:750:ASN:O	4:I:751:LEU:HD23	2.21	0.40
5:J:422:LEU:HD13	5:J:460:TYR:CD2	2.56	0.40
6:K:127:ILE:HG22	6:K:129:GLY:H	1.87	0.40
7:O:75:HIS:CG	7:O:76:PRO:HD2	2.56	0.40
1:Z:24:GLU:HB3	1:Z:76:LEU:HB3	2.03	0.40
2:c:96:SER:O	2:c:100:ARG:HG2	2.21	0.40
4:e:690:GLN:HG2	4:e:717:ASN:HD21	1.87	0.40
4:e:837:SER:HA	4:e:865:SER:O	2.21	0.40
4:i:194:LEU:HG	4:i:442:PHE:HZ	1.87	0.40
5:j:215:LEU:HB2	5:j:236:PHE:CZ	2.57	0.40
7:o:145:TYR:CE1	8:p:451:VAL:HG21	2.56	0.40
1:z:314:GLN:HE22	1:z:664:ALA:N	2.16	0.40
1:z:505:LYS:HA	1:z:505:LYS:HD3	1.86	0.40
1:2:9:LEU:O	1:2:32:CYS:HB3	2.22	0.40
1:3:529:ARG:NE	1:3:656:LEU:HD13	2.34	0.40
1:4:100:GLN:HG2	1:4:104:THR:OG1	2.22	0.40
1:4:575:ILE:CG2	1:4:605:MET:HE1	2.52	0.40
1:5:558:ARG:HA	1:5:561:LEU:HD12	2.04	0.40
1:6:309:ARG:HH21	1:6:331:VAL:HG11	1.87	0.40
1:6:401:LEU:HD11	1:6:467:GLY:HA3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7:19:CYS:SG	1:7:79:MET:HE3	2.62	0.40
1:8:455:ALA:HA	1:8:456:PRO:HD3	1.83	0.40
1:9:568:GLU:HG3	1:9:570:LYS:HG2	2.03	0.40
1:12:86:VAL:HG13	1:12:191:ILE:HD11	2.04	0.40
1:12:264:SER:HB3	1:12:283:LYS:HE3	2.03	0.40
10:N:293:GLU:HA	10:N:296:CYS:SG	2.61	0.40
10:N:863:LEU:HG	10:N:865:LEU:HD21	2.02	0.40
11:L:34:GLY:HA3	11:L:58:LYS:HG3	2.03	0.40
11:L:54:ALA:HB3	11:L:58:LYS:HB3	2.03	0.40
12:M:406:MET:SD	12:M:407:GLU:N	2.87	0.40
13:A:326:LEU:HD21	13:A:358:LEU:HD11	2.03	0.40
13:A:1074:CYS:HA	13:A:1077:LEU:HD12	2.02	0.40
14:B:167:TRP:O	14:B:171:MET:HG2	2.22	0.40
14:B:517:LYS:HE2	14:B:558:ASP:OD1	2.20	0.40
13:F:729:LEU:HD12	13:F:730:MET:HG3	2.04	0.40
13:F:1157:ASP:CG	13:F:1160:TRP:HB3	2.46	0.40
14:G:261:LEU:HA	14:G:261:LEU:HD23	1.88	0.40
10:n:150:VAL:HG13	10:n:153:LYS:HZ1	1.87	0.40
10:n:487:HIS:O	10:n:491:GLU:HG3	2.22	0.40
8:p:3:ILE:HG21	8:p:19:LEU:HD21	2.02	0.40
8:p:32:ILE:HG23	8:p:36:PHE:HD2	1.86	0.40
8:p:522:ASN:HD21	8:p:524:LYS:HD3	1.86	0.40
8:p:618:ALA:O	8:p:619:LEU:C	2.65	0.40
11:l:271:ALA:HB2	11:l:365:ALA:HB3	2.04	0.40
12:m:7:ILE:O	12:m:135:LEU:HA	2.21	0.40
13:a:430:GLN:NE2	13:a:461:LEU:HD22	2.36	0.40
13:a:1071:SER:HA	13:a:1074:CYS:SG	2.62	0.40
14:b:525:TRP:NE1	14:b:537:HIS:HB2	2.36	0.40
13:f:762:LYS:O	13:f:766:LEU:HG	2.21	0.40
1:11:1:MET:O	1:11:1:MET:HE3	2.21	0.40
1:11:565:LEU:HD23	1:11:565:LEU:HA	1.87	0.40
1:19:210:ARG:HE	1:19:227:PRO:HG3	1.87	0.40
1:19:214:SER:HB2	1:19:218:SER:O	2.21	0.40
1:19:302:PRO:HG3	1:19:611:LEU:HA	2.02	0.40
1:19:445:ARG:O	1:19:449:TYR:HD1	2.05	0.40
1:19:582:GLU:CD	1:19:599:ARG:HD3	2.47	0.40
1:19:609:ILE:HG23	1:19:668:ILE:HD11	2.03	0.40
1:15:85:THR:OG1	1:15:88:GLU:HB2	2.21	0.40
1:15:140:TRP:CD1	1:15:148:GLY:HA3	2.57	0.40
1:16:51:HIS:CD2	1:16:56:VAL:HG22	2.57	0.40
1:16:393:THR:HB	1:16:402:ASP:CG	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:14:65:VAL:HG12	1:14:67:ARG:HG2	2.02	0.40
1:14:581:LEU:HD22	1:14:596:LEU:HB3	2.03	0.40
1:14:677:TRP:CD1	1:14:678:TRP:HE3	2.39	0.40
1:13:427:ILE:HD11	1:13:440:MET:HE3	2.04	0.40
1:13:618:PRO:HB3	1:13:655:TYR:CD2	2.57	0.40
1:13:624:LYS:HG3	1:13:629:CYS:HA	2.03	0.40
1:13:639:LEU:HD23	1:13:639:LEU:HA	1.91	0.40
1:18:510:TYR:CD1	1:18:510:TYR:N	2.87	0.40
1:1:281:LEU:HD23	1:1:281:LEU:HA	1.97	0.40
4:E:121:ILE:HB	4:E:165:ASN:HD22	1.86	0.40
4:E:666:LYS:HG3	4:E:691:TYR:HD2	1.85	0.40
4:E:808:SER:HA	4:E:837:SER:O	2.21	0.40
2:H:75:LEU:HD23	2:H:75:LEU:HA	1.87	0.40
4:I:125:PHE:CZ	4:I:169:ALA:HB2	2.57	0.40
4:e:817:LEU:HD11	4:e:849:LEU:HD21	2.03	0.40
4:i:101:LEU:HD12	4:i:170:TRP:CE3	2.57	0.40
4:i:159:LYS:HD2	4:i:276:SER:HB2	2.04	0.40
4:i:231:LEU:HG	4:i:236:TRP:CZ2	2.56	0.40
1:2:50:ILE:HG22	1:2:52:ILE:HG13	2.04	0.40
1:3:465:MET:SD	1:3:597:PHE:HB2	2.62	0.40
1:4:16:HIS:ND1	1:4:110:PHE:HB2	2.37	0.40
1:4:129:ASP:HB3	1:5:61:GLU:CG	2.43	0.40
1:4:677:TRP:CD1	1:4:678:TRP:HE3	2.40	0.40
1:5:20:MET:N	1:5:23:MET:HE1	2.37	0.40
1:5:41:THR:HG1	1:5:96:PHE:HZ	1.64	0.40
1:5:668:ILE:HG22	1:5:670:ARG:HG3	2.02	0.40
1:6:195:TYR:HB3	1:6:267:LEU:HD11	2.04	0.40
1:7:460:PHE:HB3	1:7:557:ASN:ND2	2.37	0.40
1:8:20:MET:HB3	1:8:23:MET:HB2	2.03	0.40
11:L:181:GLU:N	11:L:182:PRO:HD2	2.37	0.40
13:A:892:ILE:HG12	13:A:1160:TRP:HZ3	1.86	0.40
14:B:384:LEU:HD23	14:B:384:LEU:HA	1.96	0.40
14:B:435:LEU:HA	14:B:444:THR:HG22	2.03	0.40
13:F:688:CYS:C	13:F:692:CYS:SG	3.05	0.40
13:F:1005:LEU:HD12	13:F:1005:LEU:HA	1.93	0.40
14:G:482:TRP:CE3	14:G:494:LEU:HB3	2.56	0.40
10:n:334:ALA:O	10:n:338:ILE:HG12	2.21	0.40
13:a:671:GLU:HA	13:a:697:ALA:O	2.20	0.40
13:a:850:SER:O	13:a:854:ILE:HG22	2.21	0.40
13:f:595:MET:HE1	14:g:166:LEU:HD13	2.03	0.40
1:11:550:VAL:HG11	1:11:579:PHE:CD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:11:624:LYS:HE3	1:11:624:LYS:HB2	1.85	0.40
1:19:604:ASP:OD2	1:19:607:GLN:HG3	2.21	0.40
1:19:678:TRP:CD1	1:19:679:LYS:HG3	2.57	0.40
1:15:7:LEU:HG	1:15:25:ILE:HG21	2.04	0.40
1:15:61:GLU:HG2	1:15:62:ASP:H	1.86	0.40
1:15:118:LEU:HB2	1:15:181:MET:SD	2.61	0.40
1:15:189:THR:HA	1:15:192:LEU:HD12	2.03	0.40
1:15:198:ILE:HD12	1:15:268:VAL:HG21	2.02	0.40
1:15:668:ILE:HG22	1:15:670:ARG:HG3	2.03	0.40
1:16:309:ARG:HH21	1:16:331:VAL:HG11	1.87	0.40
1:16:337:ASP:HB3	1:16:340:ARG:HG3	2.03	0.40
1:16:448:VAL:HG12	1:16:456:PRO:HG3	2.03	0.40
1:16:604:ASP:OD2	1:16:606:LEU:HB2	2.22	0.40
1:14:37:CYS:HB3	1:14:95:TYR:HB3	2.04	0.40
1:14:150:ILE:HD13	1:14:677:TRP:HE1	1.87	0.40
1:14:656:LEU:HD23	1:14:656:LEU:HA	1.93	0.40
1:17:463:TRP:CE2	1:17:553:CYS:HB3	2.57	0.40
1:17:521:ALA:HA	1:17:524:LEU:HG	2.02	0.40
1:18:28:ASP:HB3	1:18:31:LYS:HB2	2.03	0.40
1:18:423:GLY:O	1:18:454:GLN:HG2	2.22	0.40
1:18:476:VAL:HG13	1:18:489:ARG:HB2	2.03	0.40
1:18:498:CYS:HB2	1:18:577:GLN:H	1.86	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	1	680/682 (100%)	629 (92%)	49 (7%)	2 (0%)	36 71
1	11	680/682 (100%)	634 (93%)	44 (6%)	2 (0%)	36 71
1	12	680/682 (100%)	641 (94%)	39 (6%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	13	680/682 (100%)	648 (95%)	32 (5%)	0	100	100
1	14	680/682 (100%)	654 (96%)	26 (4%)	0	100	100
1	15	680/682 (100%)	640 (94%)	39 (6%)	1 (0%)	48	82
1	16	680/682 (100%)	638 (94%)	41 (6%)	1 (0%)	48	82
1	17	680/682 (100%)	642 (94%)	38 (6%)	0	100	100
1	18	680/682 (100%)	632 (93%)	46 (7%)	2 (0%)	36	71
1	19	680/682 (100%)	641 (94%)	38 (6%)	1 (0%)	48	82
1	2	680/682 (100%)	636 (94%)	44 (6%)	0	100	100
1	3	680/682 (100%)	646 (95%)	30 (4%)	4 (1%)	21	58
1	4	680/682 (100%)	659 (97%)	21 (3%)	0	100	100
1	5	680/682 (100%)	642 (94%)	38 (6%)	0	100	100
1	6	680/682 (100%)	638 (94%)	41 (6%)	1 (0%)	48	82
1	7	680/682 (100%)	643 (95%)	37 (5%)	0	100	100
1	8	680/682 (100%)	629 (92%)	51 (8%)	0	100	100
1	9	680/682 (100%)	642 (94%)	37 (5%)	1 (0%)	48	82
1	Z	680/682 (100%)	645 (95%)	35 (5%)	0	100	100
1	z	680/682 (100%)	654 (96%)	26 (4%)	0	100	100
2	C	123/125 (98%)	111 (90%)	11 (9%)	1 (1%)	16	52
2	H	88/125 (70%)	79 (90%)	7 (8%)	2 (2%)	5	29
2	c	123/125 (98%)	111 (90%)	11 (9%)	1 (1%)	16	52
2	h	88/125 (70%)	82 (93%)	6 (7%)	0	100	100
3	D	126/128 (98%)	122 (97%)	4 (3%)	0	100	100
3	d	126/128 (98%)	122 (97%)	4 (3%)	0	100	100
4	E	931/933 (100%)	881 (95%)	48 (5%)	2 (0%)	43	77
4	I	845/933 (91%)	813 (96%)	32 (4%)	0	100	100
4	e	931/933 (100%)	882 (95%)	47 (5%)	2 (0%)	43	77
4	i	845/933 (91%)	816 (97%)	29 (3%)	0	100	100
5	J	464/466 (100%)	416 (90%)	47 (10%)	1 (0%)	43	77
5	j	464/466 (100%)	419 (90%)	44 (10%)	1 (0%)	43	77
6	K	156/163 (96%)	135 (86%)	18 (12%)	3 (2%)	6	32
6	k	156/163 (96%)	137 (88%)	16 (10%)	3 (2%)	6	32

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	O	145/147 (99%)	132 (91%)	13 (9%)	0	100	100
7	o	145/147 (99%)	133 (92%)	12 (8%)	0	100	100
8	P	456/782 (58%)	404 (89%)	49 (11%)	3 (1%)	18	54
8	Q	102/782 (13%)	86 (84%)	15 (15%)	1 (1%)	12	47
8	p	452/782 (58%)	403 (89%)	45 (10%)	4 (1%)	14	49
8	q	102/782 (13%)	86 (84%)	15 (15%)	1 (1%)	12	47
9	R	53/55 (96%)	41 (77%)	11 (21%)	1 (2%)	6	32
9	r	53/55 (96%)	41 (77%)	12 (23%)	0	100	100
10	N	958/966 (99%)	894 (93%)	62 (6%)	2 (0%)	43	77
10	n	958/966 (99%)	888 (93%)	67 (7%)	3 (0%)	36	71
11	L	416/445 (94%)	378 (91%)	35 (8%)	3 (1%)	18	54
11	l	416/445 (94%)	379 (91%)	34 (8%)	3 (1%)	18	54
12	M	416/445 (94%)	374 (90%)	40 (10%)	2 (0%)	24	62
12	m	416/445 (94%)	371 (89%)	42 (10%)	3 (1%)	18	54
13	A	945/963 (98%)	882 (93%)	62 (7%)	1 (0%)	48	82
13	F	945/963 (98%)	865 (92%)	76 (8%)	4 (0%)	30	66
13	a	945/963 (98%)	883 (93%)	61 (6%)	1 (0%)	48	82
13	f	945/963 (98%)	863 (91%)	80 (8%)	2 (0%)	43	77
14	B	329/436 (76%)	310 (94%)	18 (6%)	1 (0%)	36	71
14	G	362/436 (83%)	334 (92%)	28 (8%)	0	100	100
14	b	329/436 (76%)	311 (94%)	17 (5%)	1 (0%)	36	71
14	g	362/436 (83%)	334 (92%)	28 (8%)	0	100	100
All	All	29316/32226 (91%)	27351 (93%)	1898 (6%)	67 (0%)	44	77

All (67) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	1	131	PRO
2	C	23	LEU
6	K	72	PRO
2	c	23	LEU
6	k	72	PRO
8	P	619	LEU
11	L	355	ASP

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Mol	Chain	Res	Type
13	A	313	MET
13	F	720	VAL
8	p	619	LEU
11	l	355	ASP
13	a	313	MET
13	f	720	VAL
1	11	131	PRO
1	18	621	PHE
1	18	629	CYS
4	E	149	VAL
2	H	73	GLN
4	e	149	VAL
1	3	625	ILE
1	6	132	SER
10	N	58	ILE
8	P	64	ARG
13	F	703	ARG
13	F	706	LEU
10	n	58	ILE
8	p	62	ASP
8	p	64	ARG
1	16	132	SER
1	3	101	GLU
8	P	62	ASP
11	L	300	MET
13	F	479	SER
10	n	354	GLU
8	p	358	VAL
13	f	479	SER
1	1	130	MET
1	3	622	GLY
11	l	300	MET
1	11	130	MET
1	19	453	VAL
2	H	74	ALA
5	J	24	GLN
8	Q	268	ILE
5	j	24	GLN
8	q	268	ILE
1	3	624	LYS
1	9	453	VAL
12	M	300	MET

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Mol	Chain	Res	Type
12	m	300	MET
12	M	356	ILE
12	m	37	HIS
12	m	356	ILE
4	E	91	VAL
4	e	91	VAL
1	15	64	VAL
6	K	69	PRO
9	R	46	PRO
6	k	69	PRO
14	B	384	LEU
14	b	384	LEU
6	k	131	THR
10	N	841	VAL
11	L	356	ILE
10	n	841	VAL
11	l	356	ILE
6	K	131	THR

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	1	612/613 (100%)	612 (100%)	0	100 100
1	11	612/613 (100%)	611 (100%)	1 (0%)	87 85
1	12	613/613 (100%)	613 (100%)	0	100 100
1	13	613/613 (100%)	613 (100%)	0	100 100
1	14	613/613 (100%)	613 (100%)	0	100 100
1	15	613/613 (100%)	613 (100%)	0	100 100
1	16	613/613 (100%)	613 (100%)	0	100 100
1	17	613/613 (100%)	613 (100%)	0	100 100
1	18	613/613 (100%)	611 (100%)	2 (0%)	86 84
1	19	613/613 (100%)	613 (100%)	0	100 100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	2	613/613 (100%)	613 (100%)	0	100 100
1	3	613/613 (100%)	609 (99%)	4 (1%)	76 78
1	4	613/613 (100%)	613 (100%)	0	100 100
1	5	613/613 (100%)	612 (100%)	1 (0%)	87 85
1	6	613/613 (100%)	613 (100%)	0	100 100
1	7	613/613 (100%)	613 (100%)	0	100 100
1	8	613/613 (100%)	613 (100%)	0	100 100
1	9	613/613 (100%)	613 (100%)	0	100 100
1	Z	613/613 (100%)	613 (100%)	0	100 100
1	z	613/613 (100%)	612 (100%)	1 (0%)	87 85
2	C	111/111 (100%)	111 (100%)	0	100 100
2	H	79/111 (71%)	76 (96%)	3 (4%)	29 51
2	c	111/111 (100%)	111 (100%)	0	100 100
2	h	79/111 (71%)	79 (100%)	0	100 100
3	D	116/116 (100%)	115 (99%)	1 (1%)	70 75
3	d	116/116 (100%)	115 (99%)	1 (1%)	70 75
4	E	859/859 (100%)	856 (100%)	3 (0%)	86 84
4	I	781/859 (91%)	781 (100%)	0	100 100
4	e	859/859 (100%)	858 (100%)	1 (0%)	88 88
4	i	781/859 (91%)	781 (100%)	0	100 100
5	J	429/429 (100%)	428 (100%)	1 (0%)	87 85
5	j	429/429 (100%)	428 (100%)	1 (0%)	87 85
6	K	145/150 (97%)	145 (100%)	0	100 100
6	k	145/150 (97%)	145 (100%)	0	100 100
7	O	132/132 (100%)	132 (100%)	0	100 100
7	o	132/132 (100%)	132 (100%)	0	100 100
8	P	405/682 (59%)	399 (98%)	6 (2%)	57 70
8	Q	94/682 (14%)	94 (100%)	0	100 100
8	p	401/682 (59%)	399 (100%)	2 (0%)	81 81
8	q	94/682 (14%)	94 (100%)	0	100 100
9	R	46/46 (100%)	44 (96%)	2 (4%)	26 48

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	r	46/46 (100%)	46 (100%)	0	100	100
10	N	881/884 (100%)	879 (100%)	2 (0%)	87	85
10	n	881/884 (100%)	878 (100%)	3 (0%)	86	84
11	L	360/382 (94%)	360 (100%)	0	100	100
11	l	360/382 (94%)	360 (100%)	0	100	100
12	M	361/383 (94%)	360 (100%)	1 (0%)	86	84
12	m	361/383 (94%)	360 (100%)	1 (0%)	86	84
13	A	849/875 (97%)	849 (100%)	0	100	100
13	F	849/875 (97%)	847 (100%)	2 (0%)	87	85
13	a	849/875 (97%)	849 (100%)	0	100	100
13	f	849/875 (97%)	849 (100%)	0	100	100
14	B	292/386 (76%)	292 (100%)	0	100	100
14	G	322/386 (83%)	322 (100%)	0	100	100
14	b	292/386 (76%)	292 (100%)	0	100	100
14	g	322/386 (83%)	322 (100%)	0	100	100
All	All	26476/28956 (91%)	26437 (100%)	39 (0%)	87	88

All (39) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	D	31	LYS
4	E	40	GLN
4	E	47	LYS
4	E	51	ARG
2	H	71	MET
2	H	72	CYS
2	H	73	GLN
5	J	152	LYS
9	R	48	GLN
9	R	50	ARG
3	d	31	LYS
4	e	47	LYS
5	j	152	LYS
1	z	309	ARG
1	3	624	LYS
1	3	625	ILE
1	3	633	GLU

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Mol	Chain	Res	Type
1	3	634	LYS
1	5	43	ARG
10	N	351	ARG
10	N	352	LYS
8	P	64	ARG
8	P	66	ASN
8	P	67	ASP
8	P	339	CYS
8	P	341	GLU
8	P	344	MET
12	M	280	GLN
13	F	703	ARG
13	F	705	LEU
10	n	351	ARG
10	n	352	LYS
10	n	354	GLU
8	p	64	ARG
8	p	65	LEU
12	m	280	GLN
1	11	132	SER
1	18	333	LYS
1	18	653	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (304) such sidechains are listed below:

Mol	Chain	Res	Type
1	1	5	ASN
1	1	16	HIS
1	1	70	ASN
1	1	194	ASN
1	1	215	GLN
1	1	607	GLN
2	C	43	ASN
2	C	107	ASN
3	D	61	HIS
3	D	64	HIS
3	D	74	HIS
3	D	76	ASN
4	E	93	ASN
4	E	95	ASN
4	E	135	ASN
4	E	713	GLN

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Mol	Chain	Res	Type
4	E	858	ASN
2	H	94	GLN
2	H	98	GLN
4	I	165	ASN
4	I	470	HIS
4	I	518	HIS
4	I	572	GLN
4	I	608	ASN
4	I	671	ASN
4	I	677	ASN
4	I	847	GLN
4	I	857	GLN
4	I	863	HIS
4	I	883	HIS
4	I	885	ASN
4	I	887	HIS
5	J	33	ASN
6	K	90	GLN
1	Z	5	ASN
1	Z	70	ASN
1	Z	162	GLN
1	Z	196	GLN
1	Z	341	GLN
1	Z	483	ASN
1	Z	523	GLN
1	Z	614	ASN
2	c	43	ASN
2	c	107	ASN
3	d	61	HIS
3	d	64	HIS
3	d	74	HIS
3	d	76	ASN
4	e	40	GLN
4	e	93	ASN
4	e	95	ASN
4	e	310	HIS
4	e	713	GLN
4	e	799	ASN
4	e	858	ASN
4	e	883	HIS
2	h	94	GLN
2	h	98	GLN

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Mol	Chain	Res	Type
4	i	165	ASN
4	i	470	HIS
4	i	518	HIS
4	i	572	GLN
4	i	608	ASN
4	i	671	ASN
4	i	677	ASN
4	i	847	GLN
4	i	857	GLN
4	i	863	HIS
4	i	883	HIS
4	i	885	ASN
4	i	887	HIS
5	j	33	ASN
5	j	38	ASN
5	j	374	HIS
6	k	90	GLN
6	k	125	ASN
8	q	262	GLN
8	q	299	ASN
1	z	70	ASN
1	z	162	GLN
1	z	194	ASN
1	z	312	GLN
1	z	314	GLN
1	z	441	ASN
1	z	452	GLN
1	z	482	ASN
1	z	506	GLN
1	z	577	GLN
1	2	13	ASN
1	2	406	ASN
1	2	479	ASN
1	3	51	HIS
1	3	100	GLN
1	3	200	HIS
1	3	355	GLN
1	3	441	ASN
1	3	506	GLN
1	3	547	ASN
1	3	592	GLN
1	3	607	GLN

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Mol	Chain	Res	Type
1	3	626	ASN
1	4	100	GLN
1	4	180	GLN
1	4	300	GLN
1	4	346	GLN
1	4	523	GLN
1	5	228	ASN
1	5	300	GLN
1	5	454	GLN
1	5	479	ASN
1	5	523	GLN
1	5	547	ASN
1	6	177	ASN
1	6	339	ASN
1	6	341	GLN
1	6	479	ASN
1	6	523	GLN
1	6	626	ASN
1	7	591	GLN
1	8	228	ASN
1	8	406	ASN
1	8	451	GLN
1	8	614	ASN
1	9	70	ASN
1	9	272	HIS
1	9	339	ASN
1	9	396	HIS
1	9	441	ASN
1	9	626	ASN
1	12	13	ASN
1	12	406	ASN
1	12	479	ASN
10	N	37	ASN
10	N	139	HIS
10	N	385	HIS
10	N	413	ASN
10	N	452	ASN
10	N	572	HIS
10	N	574	ASN
10	N	799	HIS
10	N	856	ASN
10	N	934	ASN

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Mol	Chain	Res	Type
8	P	66	ASN
8	P	347	HIS
8	P	701	GLN
11	L	8	GLN
11	L	14	ASN
11	L	100	ASN
11	L	195	ASN
11	L	245	GLN
11	L	264	HIS
11	L	335	ASN
11	L	416	ASN
12	M	14	ASN
12	M	134	GLN
12	M	184	ASN
12	M	280	GLN
12	M	329	GLN
13	A	203	GLN
13	A	430	GLN
13	A	529	HIS
13	A	552	GLN
13	A	637	GLN
13	A	678	GLN
13	A	693	GLN
13	A	954	ASN
14	B	156	GLN
14	B	164	GLN
14	B	175	GLN
14	B	285	GLN
14	B	334	HIS
14	B	354	ASN
14	B	392	GLN
14	B	430	ASN
14	B	468	GLN
13	F	416	GLN
13	F	430	GLN
13	F	471	HIS
13	F	529	HIS
13	F	531	ASN
13	F	548	HIS
13	F	657	GLN
13	F	724	GLN
13	F	826	HIS

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Mol	Chain	Res	Type
13	F	981	ASN
13	F	1072	ASN
13	F	1084	ASN
13	F	1086	HIS
14	G	324	GLN
14	G	419	GLN
14	G	441	ASN
14	G	547	GLN
10	n	244	HIS
10	n	273	HIS
10	n	276	GLN
10	n	353	HIS
10	n	385	HIS
10	n	413	ASN
10	n	452	ASN
10	n	572	HIS
10	n	799	HIS
10	n	826	GLN
10	n	856	ASN
10	n	925	ASN
10	n	934	ASN
8	p	70	GLN
8	p	347	HIS
8	p	477	ASN
8	p	509	ASN
8	p	684	ASN
8	p	701	GLN
8	p	717	GLN
11	l	8	GLN
11	l	14	ASN
11	l	94	GLN
11	l	100	ASN
11	l	195	ASN
11	l	264	HIS
11	l	334	GLN
11	l	335	ASN
11	l	416	ASN
12	m	14	ASN
12	m	184	ASN
12	m	329	GLN
12	m	335	ASN
13	a	203	GLN

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Mol	Chain	Res	Type
13	a	374	ASN
13	a	430	GLN
13	a	529	HIS
13	a	531	ASN
13	a	552	GLN
13	a	693	GLN
13	a	954	ASN
13	a	1054	GLN
14	b	156	GLN
14	b	164	GLN
14	b	175	GLN
14	b	285	GLN
14	b	334	HIS
14	b	392	GLN
14	b	430	ASN
14	b	468	GLN
13	f	416	GLN
13	f	430	GLN
13	f	471	HIS
13	f	529	HIS
13	f	531	ASN
13	f	548	HIS
13	f	724	GLN
13	f	826	HIS
13	f	981	ASN
13	f	1072	ASN
13	f	1084	ASN
13	f	1086	HIS
14	g	324	GLN
14	g	419	GLN
14	g	441	ASN
14	g	547	GLN
1	11	5	ASN
1	11	194	ASN
1	11	215	GLN
1	11	312	GLN
1	11	607	GLN
1	19	272	HIS
1	19	339	ASN
1	19	396	HIS
1	19	441	ASN
1	19	468	HIS

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Mol	Chain	Res	Type
1	19	626	ASN
1	15	228	ASN
1	15	300	GLN
1	15	454	GLN
1	15	479	ASN
1	15	523	GLN
1	15	547	ASN
1	15	577	GLN
1	16	177	ASN
1	16	339	ASN
1	16	479	ASN
1	16	523	GLN
1	16	586	ASN
1	16	626	ASN
1	14	51	HIS
1	14	180	GLN
1	14	182	ASN
1	14	300	GLN
1	14	346	GLN
1	14	523	GLN
1	13	51	HIS
1	13	70	ASN
1	13	200	HIS
1	13	392	GLN
1	13	441	ASN
1	13	577	GLN
1	13	592	GLN
1	13	607	GLN
1	17	4	GLN
1	17	591	GLN
1	18	70	ASN
1	18	158	ASN
1	18	416	GLN
1	18	441	ASN
1	18	506	GLN
1	18	577	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

8 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
15	GDP	M	501	-	28,30,30	1.15	3 (10%)	44,47,47	1.90	8 (18%)
16	ADP	A	1201	-	27,29,29	1.36	4 (14%)	42,45,45	1.96	10 (23%)
16	ADP	F	1201	-	27,29,29	1.36	4 (14%)	42,45,45	1.97	9 (21%)
15	GDP	m	501	-	28,30,30	1.15	3 (10%)	44,47,47	1.91	8 (18%)
15	GDP	l	501	-	28,30,30	1.16	3 (10%)	44,47,47	1.95	8 (18%)
16	ADP	f	1201	-	27,29,29	1.36	4 (14%)	42,45,45	1.98	9 (21%)
15	GDP	L	501	-	28,30,30	1.17	3 (10%)	44,47,47	1.95	8 (18%)
16	ADP	a	1201	-	27,29,29	1.37	4 (14%)	42,45,45	1.97	10 (23%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
15	GDP	M	501	-	-	2/16/32/32	0/3/3/3
16	ADP	A	1201	-	-	4/16/32/32	0/3/3/3
16	ADP	F	1201	-	-	4/16/32/32	0/3/3/3
15	GDP	m	501	-	-	2/16/32/32	0/3/3/3

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
15	GDP	l	501	-	-	3/16/32/32	0/3/3/3
16	ADP	f	1201	-	-	4/16/32/32	0/3/3/3
15	GDP	L	501	-	-	3/16/32/32	0/3/3/3
16	ADP	a	1201	-	-	4/16/32/32	0/3/3/3

All (28) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
16	F	1201	ADP	C5-C4	4.58	1.47	1.39
16	f	1201	ADP	C5-C4	4.58	1.47	1.39
16	a	1201	ADP	C5-C4	4.56	1.47	1.39
16	A	1201	ADP	C5-C4	4.53	1.47	1.39
15	L	501	GDP	C5-C4	3.17	1.47	1.38
15	l	501	GDP	C5-C4	3.15	1.47	1.38
15	m	501	GDP	C5-C4	3.13	1.47	1.38
15	M	501	GDP	C5-C4	3.10	1.47	1.38
16	A	1201	ADP	C5-C6	2.70	1.48	1.41
16	a	1201	ADP	C5-C6	2.69	1.48	1.41
16	f	1201	ADP	C5-C6	2.65	1.48	1.41
16	F	1201	ADP	C5-C6	2.65	1.48	1.41
15	l	501	GDP	C6-N1	-2.63	1.34	1.38
15	M	501	GDP	C6-N1	-2.62	1.34	1.38
15	L	501	GDP	C6-N1	-2.61	1.34	1.38
15	m	501	GDP	C6-N1	-2.61	1.34	1.38
16	a	1201	ADP	C8-N7	2.41	1.36	1.31
16	F	1201	ADP	C8-N7	2.39	1.36	1.31
16	A	1201	ADP	C8-N7	2.37	1.36	1.31
16	f	1201	ADP	C8-N7	2.37	1.36	1.31
15	L	501	GDP	C5-N7	-2.35	1.34	1.39
15	l	501	GDP	C5-N7	-2.33	1.34	1.39
15	m	501	GDP	C5-N7	-2.31	1.34	1.39
16	F	1201	ADP	C5-N7	-2.29	1.34	1.39
15	M	501	GDP	C5-N7	-2.29	1.34	1.39
16	f	1201	ADP	C5-N7	-2.28	1.34	1.39
16	a	1201	ADP	C5-N7	-2.19	1.34	1.39
16	A	1201	ADP	C5-N7	-2.17	1.34	1.39

All (70) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	l	501	GDP	C5-C4-N3	-6.72	117.56	128.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	L	501	GDP	C5-C4-N3	-6.72	117.56	128.46
15	m	501	GDP	C5-C4-N3	-6.56	117.81	128.46
15	M	501	GDP	C5-C4-N3	-6.54	117.84	128.46
16	f	1201	ADP	C5-C4-N3	-6.47	118.31	126.75
16	F	1201	ADP	C5-C4-N3	-6.46	118.33	126.75
16	a	1201	ADP	C5-C4-N3	-6.24	118.61	126.75
16	A	1201	ADP	C5-C4-N3	-6.23	118.63	126.75
15	L	501	GDP	N9-C4-N3	5.27	136.51	125.94
15	l	501	GDP	N9-C4-N3	5.26	136.50	125.94
15	l	501	GDP	C2-N3-C4	5.25	121.66	112.30
15	L	501	GDP	C2-N3-C4	5.23	121.62	112.30
15	m	501	GDP	C2-N3-C4	5.09	121.36	112.30
15	M	501	GDP	C2-N3-C4	5.07	121.33	112.30
16	F	1201	ADP	N3-C4-N9	5.06	135.42	127.08
16	f	1201	ADP	N3-C4-N9	5.06	135.42	127.08
15	M	501	GDP	N9-C4-N3	5.00	135.97	125.94
15	m	501	GDP	N9-C4-N3	4.99	135.97	125.94
16	a	1201	ADP	N3-C4-N9	4.89	135.15	127.08
16	A	1201	ADP	N3-C4-N9	4.87	135.10	127.08
15	L	501	GDP	PA-O3A-PB	-3.97	119.22	132.83
15	l	501	GDP	PA-O3A-PB	-3.95	119.25	132.83
15	m	501	GDP	PA-O3A-PB	-3.94	119.30	132.83
15	M	501	GDP	PA-O3A-PB	-3.93	119.34	132.83
16	f	1201	ADP	C2-N3-C4	3.90	120.97	111.75
16	F	1201	ADP	C2-N3-C4	3.89	120.94	111.75
16	a	1201	ADP	C2-N3-C4	3.87	120.89	111.75
16	A	1201	ADP	C2-N3-C4	3.84	120.83	111.75
16	a	1201	ADP	PA-O3A-PB	-3.64	120.34	132.83
16	A	1201	ADP	PA-O3A-PB	-3.63	120.37	132.83
16	a	1201	ADP	C4-C5-N7	-3.23	106.68	110.62
16	A	1201	ADP	C4-C5-N7	-3.23	106.68	110.62
16	F	1201	ADP	PA-O3A-PB	-3.22	121.76	132.83
16	f	1201	ADP	C4-C5-N7	-3.22	106.70	110.62
16	f	1201	ADP	PA-O3A-PB	-3.21	121.80	132.83
16	F	1201	ADP	C4-C5-N7	-3.20	106.72	110.62
16	a	1201	ADP	N3-C2-N1	-3.12	123.72	128.60
16	A	1201	ADP	N3-C2-N1	-3.09	123.76	128.60
16	f	1201	ADP	N3-C2-N1	-3.08	123.79	128.60
16	F	1201	ADP	N3-C2-N1	-3.06	123.81	128.60
15	m	501	GDP	C6-C5-N7	2.90	135.65	130.25
15	M	501	GDP	C6-C5-N7	2.87	135.58	130.25
16	f	1201	ADP	C5-N7-C8	2.77	107.44	103.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	F	1201	ADP	C5-N7-C8	2.75	107.42	103.51
16	a	1201	ADP	C5-N7-C8	2.68	107.31	103.51
15	L	501	GDP	C6-C5-N7	2.66	135.20	130.25
16	A	1201	ADP	C5-N7-C8	2.65	107.27	103.51
15	l	501	GDP	C6-C5-N7	2.63	135.14	130.25
15	m	501	GDP	C4-C5-N7	-2.52	106.74	110.72
15	M	501	GDP	C4-C5-N7	-2.47	106.80	110.72
16	a	1201	ADP	C4-N9-C8	2.45	108.39	105.73
16	A	1201	ADP	C4-N9-C8	2.44	108.38	105.73
16	F	1201	ADP	C3'-C2'-C1'	2.43	106.05	101.43
16	f	1201	ADP	C3'-C2'-C1'	2.42	106.03	101.43
16	F	1201	ADP	C4-N9-C8	2.36	108.28	105.73
16	f	1201	ADP	C4-N9-C8	2.34	108.27	105.73
15	L	501	GDP	C4-C5-N7	-2.32	107.05	110.72
15	l	501	GDP	C4-C5-N7	-2.30	107.08	110.72
16	A	1201	ADP	C3'-C2'-C1'	2.22	105.65	101.43
15	m	501	GDP	O6-C6-C5	-2.22	120.71	126.60
15	M	501	GDP	O6-C6-C5	-2.21	120.74	126.60
16	a	1201	ADP	C3'-C2'-C1'	2.19	105.58	101.43
15	L	501	GDP	O6-C6-C5	-2.18	120.80	126.60
15	l	501	GDP	C3'-C2'-C1'	2.18	105.57	101.43
15	l	501	GDP	O6-C6-C5	-2.18	120.83	126.60
15	L	501	GDP	C3'-C2'-C1'	2.17	105.55	101.43
15	M	501	GDP	C3'-C2'-C1'	2.16	105.53	101.43
15	m	501	GDP	C3'-C2'-C1'	2.16	105.52	101.43
16	A	1201	ADP	C6-C5-N7	2.11	135.95	132.02
16	a	1201	ADP	C6-C5-N7	2.11	135.95	132.02

There are no chirality outliers.

All (26) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
15	L	501	GDP	O4'-C4'-C5'-O5'
15	l	501	GDP	O4'-C4'-C5'-O5'
16	A	1201	ADP	C5'-O5'-PA-O3A
16	F	1201	ADP	PA-O3A-PB-O3B
16	F	1201	ADP	PB-O3A-PA-O5'
16	F	1201	ADP	C5'-O5'-PA-O1A
16	a	1201	ADP	C5'-O5'-PA-O3A
16	f	1201	ADP	PA-O3A-PB-O3B
16	f	1201	ADP	PB-O3A-PA-O5'
16	f	1201	ADP	C5'-O5'-PA-O1A

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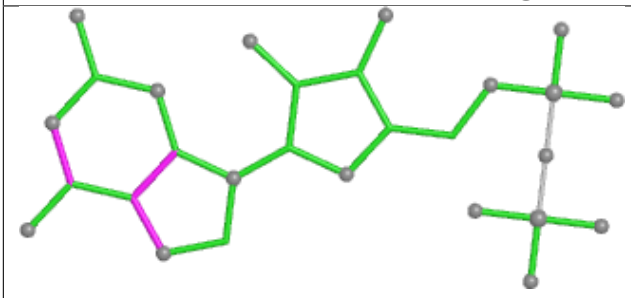
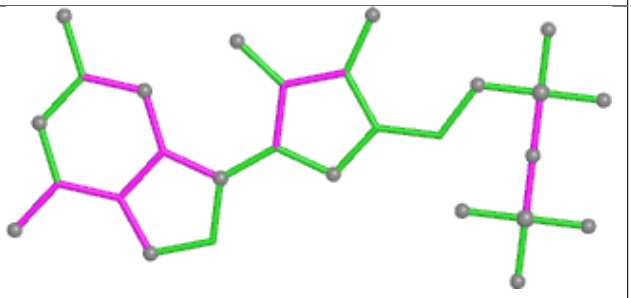
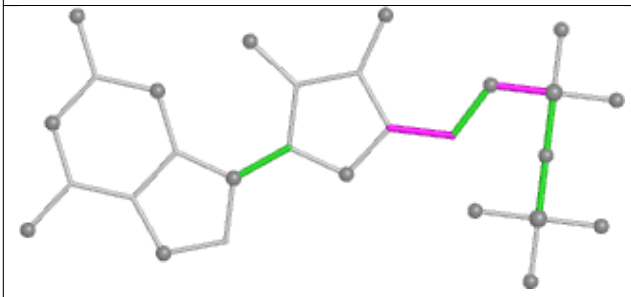
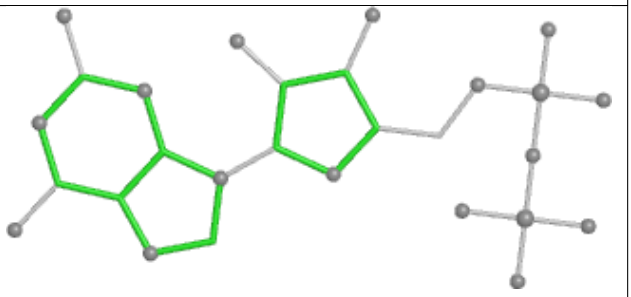
Mol	Chain	Res	Type	Atoms
16	A	1201	ADP	C3'-C4'-C5'-O5'
16	a	1201	ADP	C3'-C4'-C5'-O5'
16	A	1201	ADP	O4'-C4'-C5'-O5'
16	a	1201	ADP	O4'-C4'-C5'-O5'
16	A	1201	ADP	C5'-O5'-PA-O2A
16	a	1201	ADP	C5'-O5'-PA-O2A
15	L	501	GDP	C2'-C1'-N9-C4
15	l	501	GDP	C2'-C1'-N9-C4
15	L	501	GDP	C5'-O5'-PA-O3A
15	l	501	GDP	C5'-O5'-PA-O3A
16	F	1201	ADP	C5'-O5'-PA-O3A
16	f	1201	ADP	C5'-O5'-PA-O3A
15	M	501	GDP	O4'-C4'-C5'-O5'
15	m	501	GDP	O4'-C4'-C5'-O5'
15	M	501	GDP	C5'-O5'-PA-O1A
15	m	501	GDP	C5'-O5'-PA-O1A

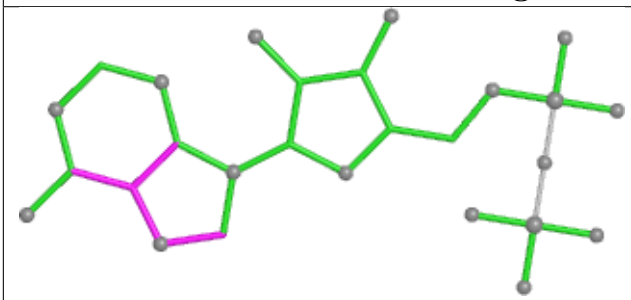
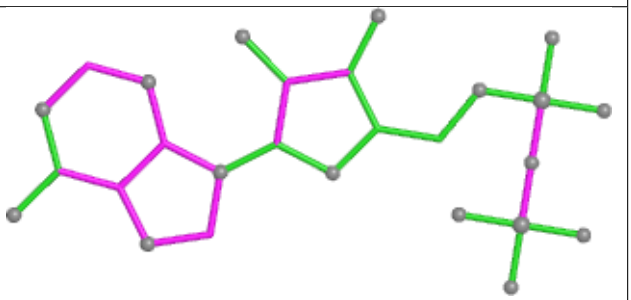
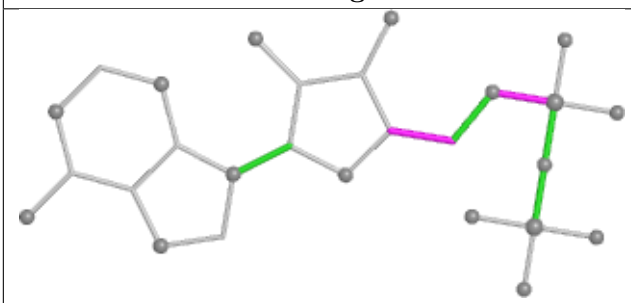
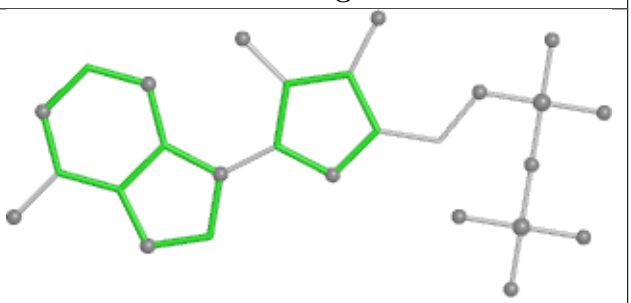
There are no ring outliers.

8 monomers are involved in 12 short contacts:

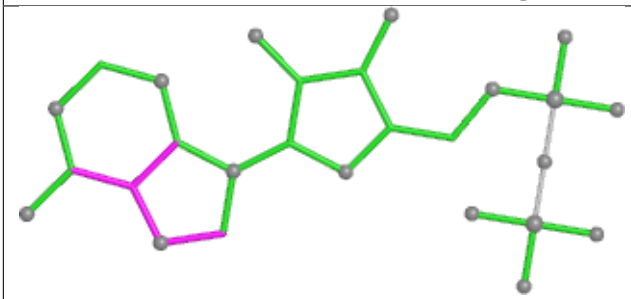
Mol	Chain	Res	Type	Clashes	Symm-Clashes
15	M	501	GDP	1	0
16	A	1201	ADP	2	0
16	F	1201	ADP	1	0
15	m	501	GDP	1	0
15	l	501	GDP	2	0
16	f	1201	ADP	1	0
15	L	501	GDP	2	0
16	a	1201	ADP	2	0

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

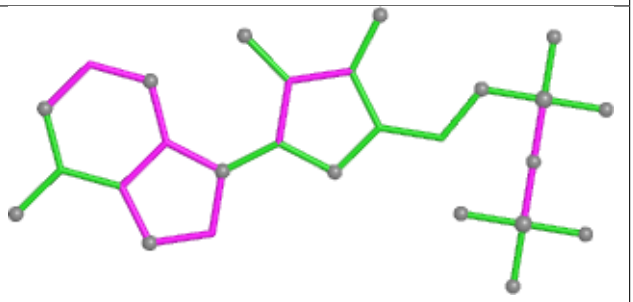
Ligand GDP M 501	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand ADP A 1201	
 Bond lengths	 Bond angles
 Torsions	 Rings

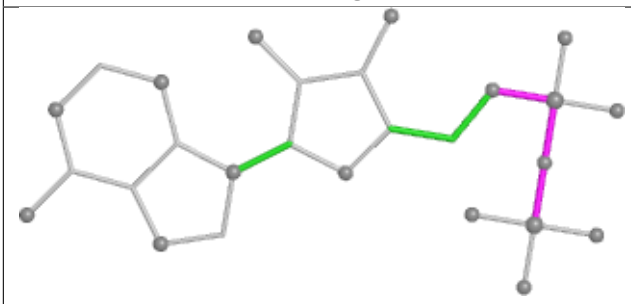
Ligand ADP F 1201



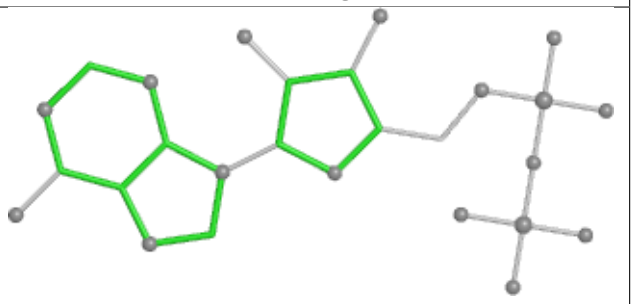
Bond lengths



Bond angles

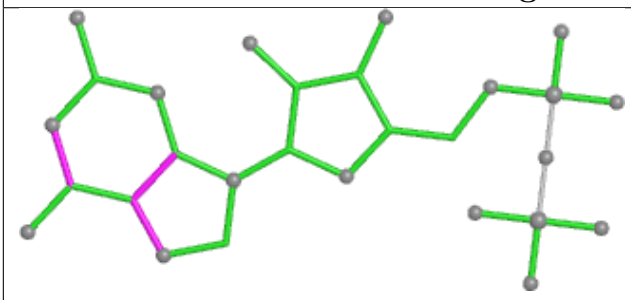


Torsions

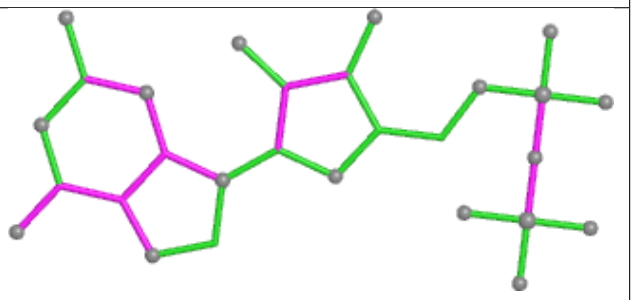


Rings

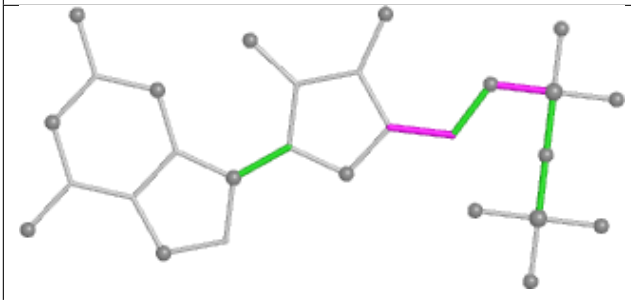
Ligand GDP m 501



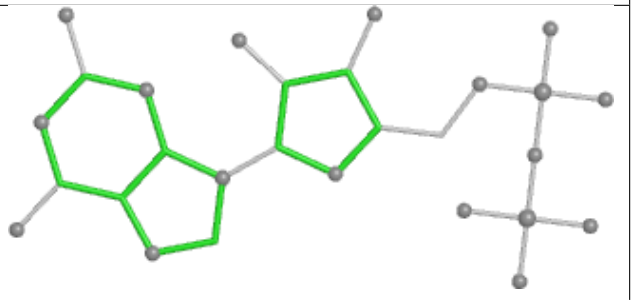
Bond lengths



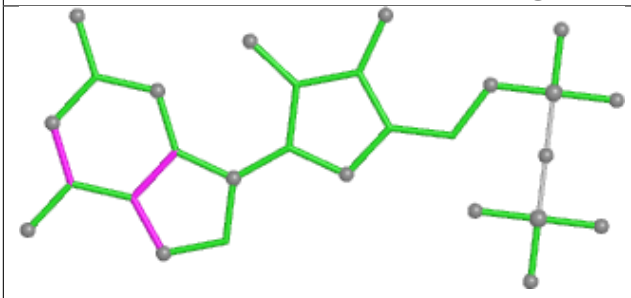
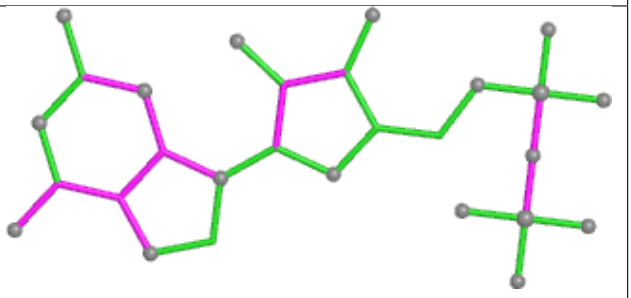
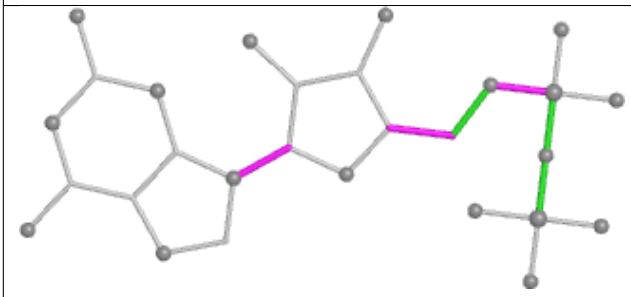
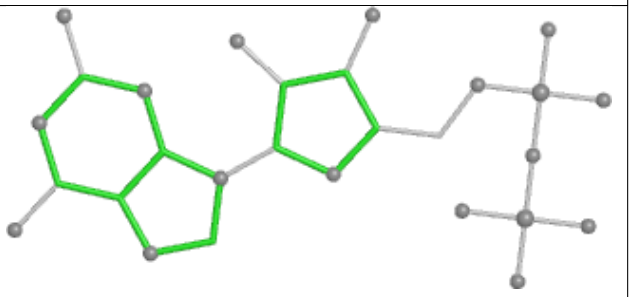
Bond angles

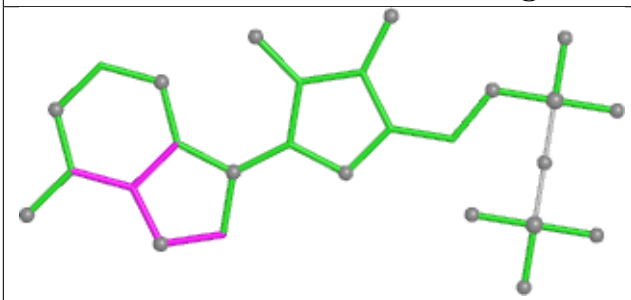
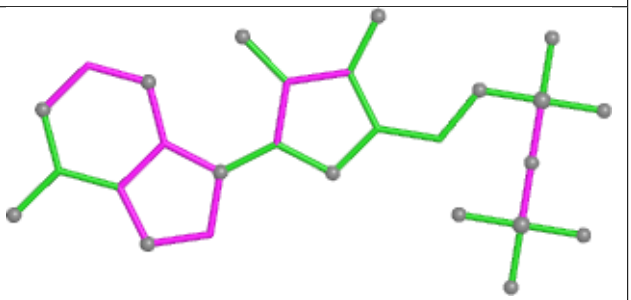
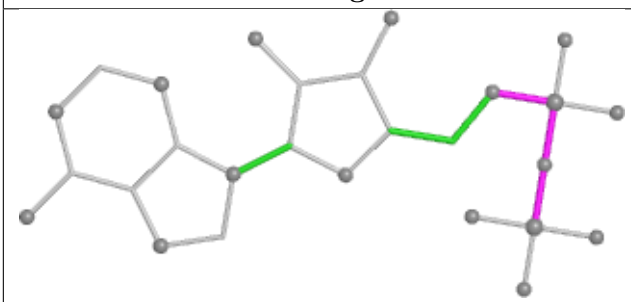
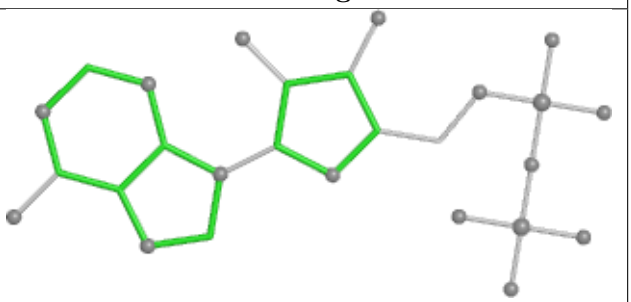


Torsions

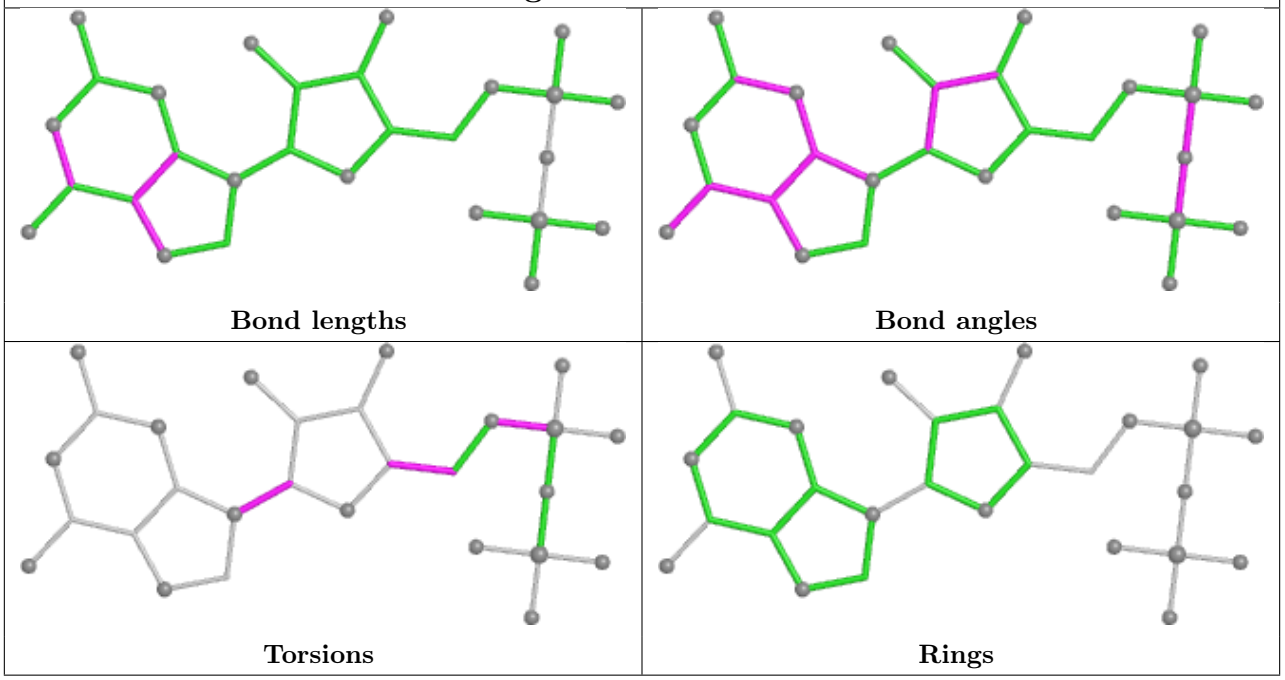


Rings

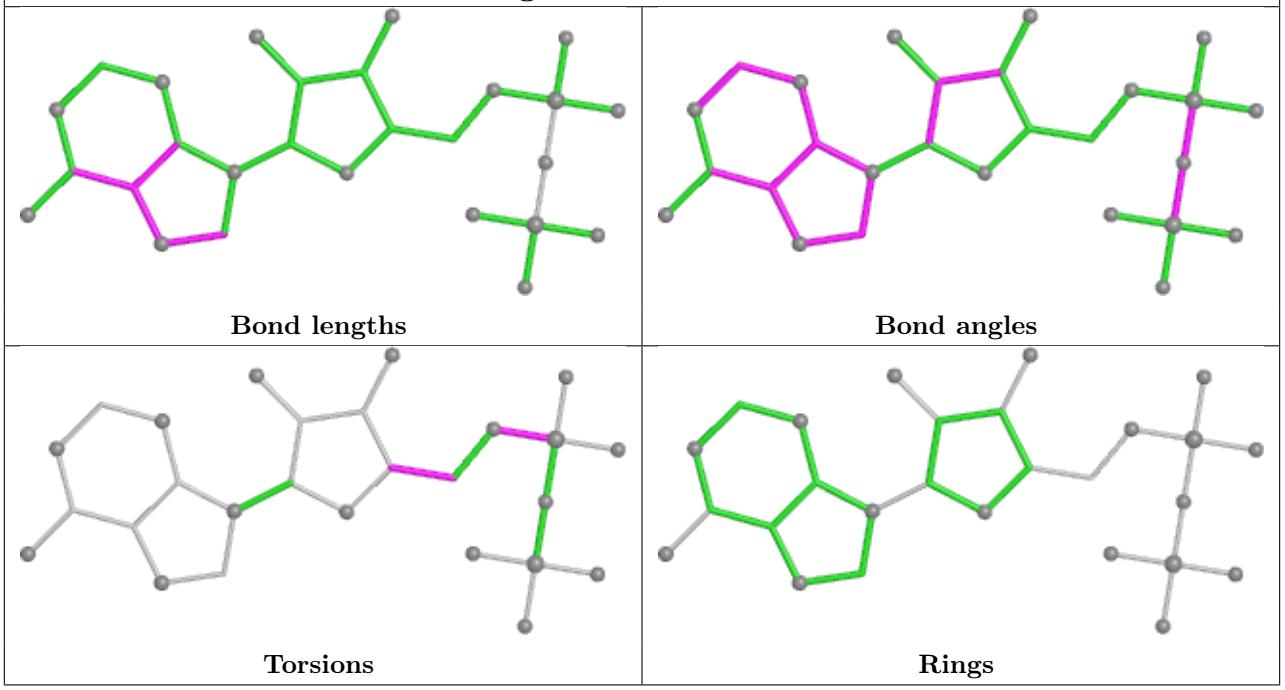
Ligand GDP l 501	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand ADP f 1201	
	
Bond lengths	Bond angles
	
Torsions	Rings

Ligand GDP L 501



Ligand ADP a 1201



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.

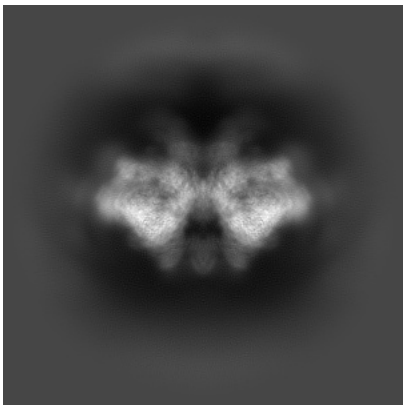
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-65575. These allow visual inspection of the internal detail of the map and identification of artifacts.

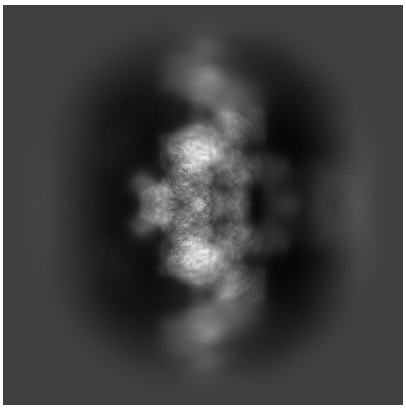
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

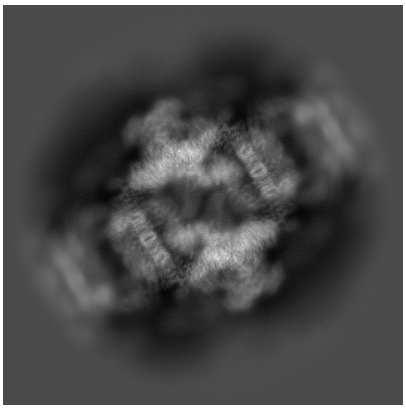
6.1.1 Primary map



X

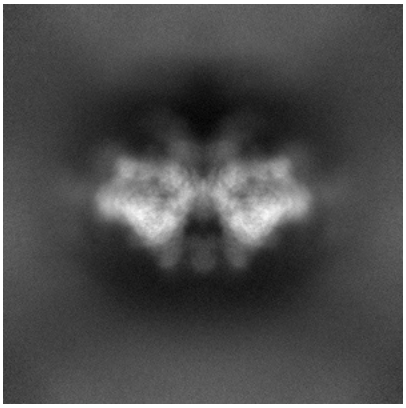


Y

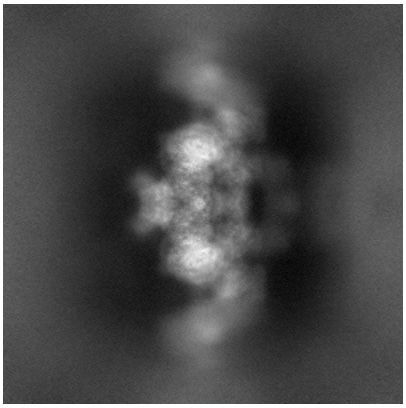


Z

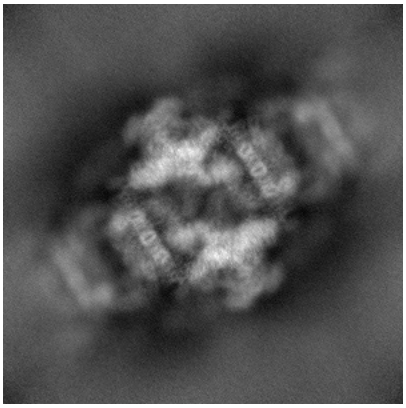
6.1.2 Raw map



X



Y

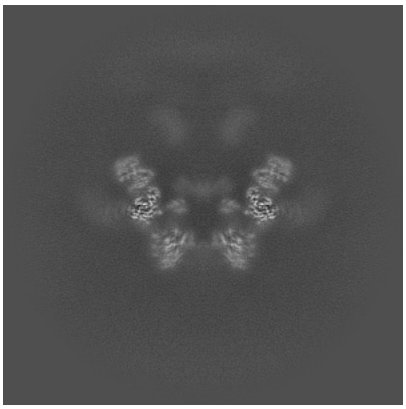


Z

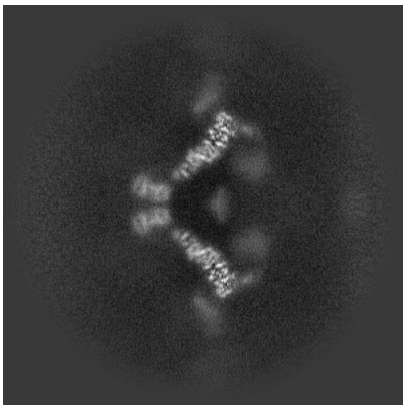
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

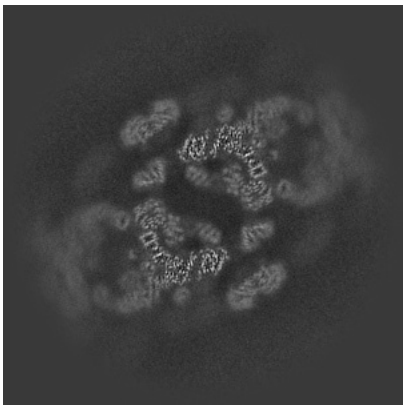
6.2.1 Primary map



X Index: 320

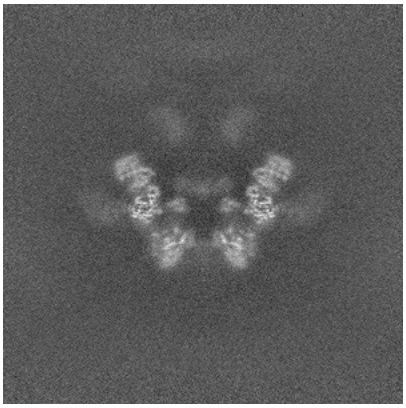


Y Index: 320

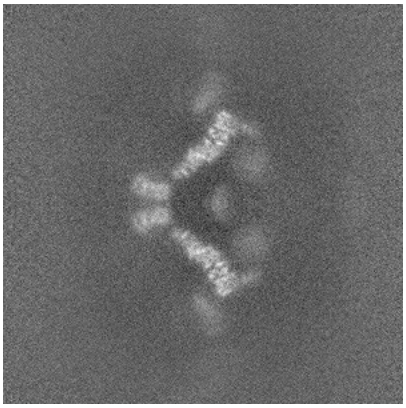


Z Index: 320

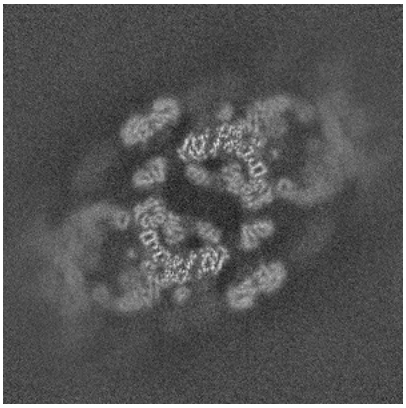
6.2.2 Raw map



X Index: 320



Y Index: 320

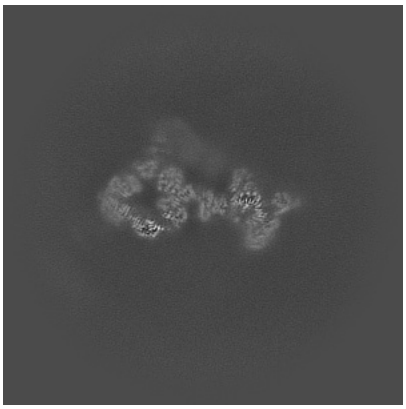


Z Index: 320

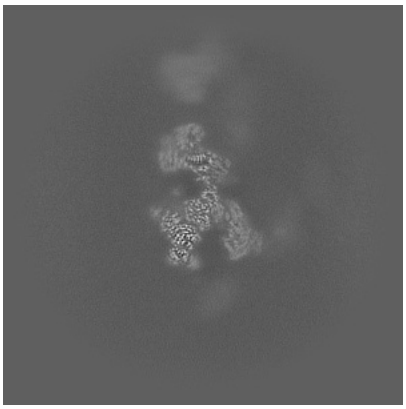
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

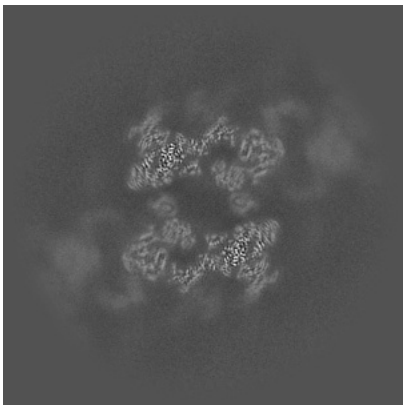
6.3.1 Primary map



X Index: 396

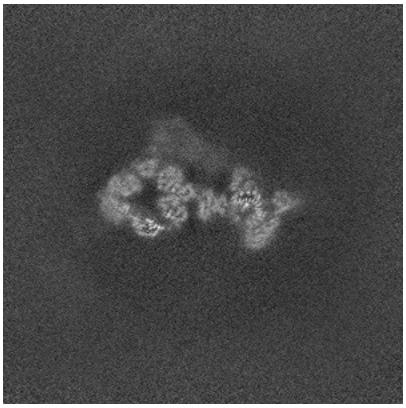


Y Index: 405

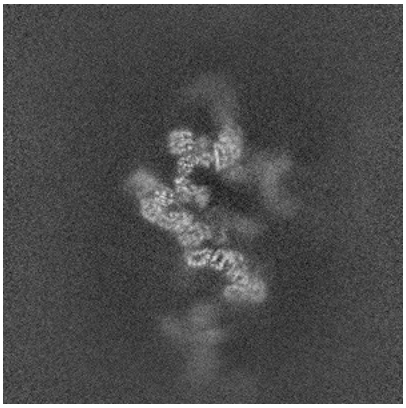


Z Index: 297

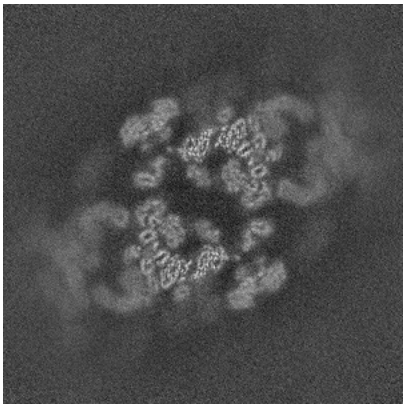
6.3.2 Raw map



X Index: 396



Y Index: 271

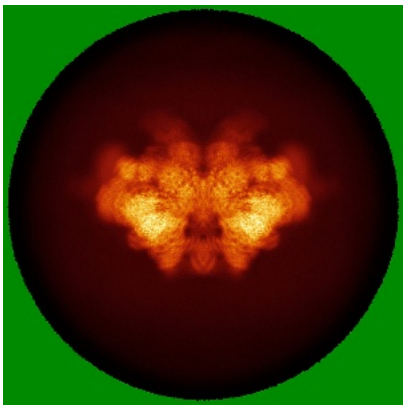


Z Index: 315

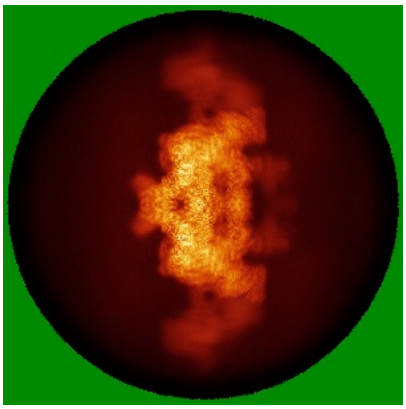
The images above show the largest variance slices of the map in three orthogonal directions.

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

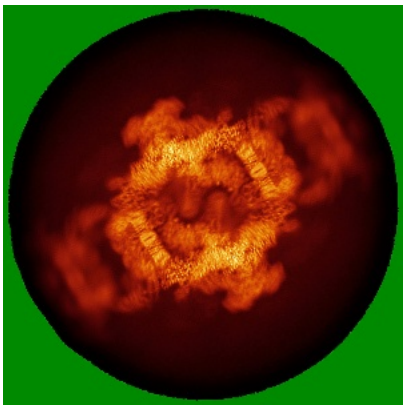
6.4.1 Primary map



X

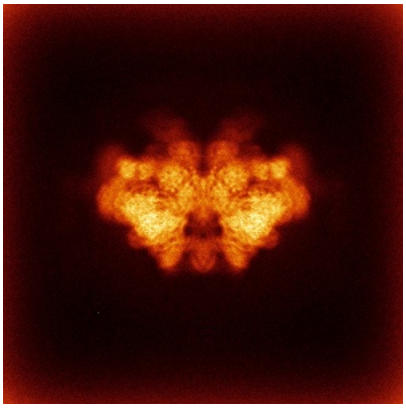


Y

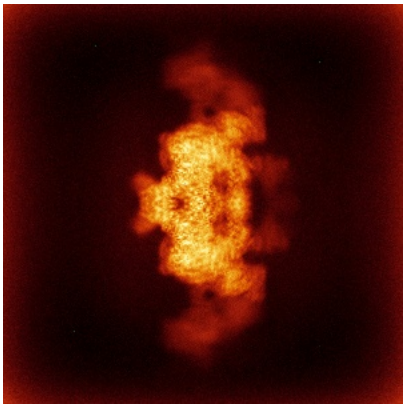


Z

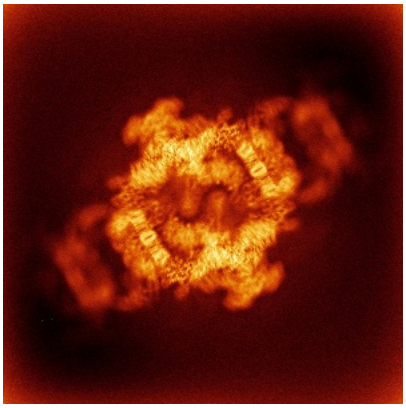
6.4.2 Raw map



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.

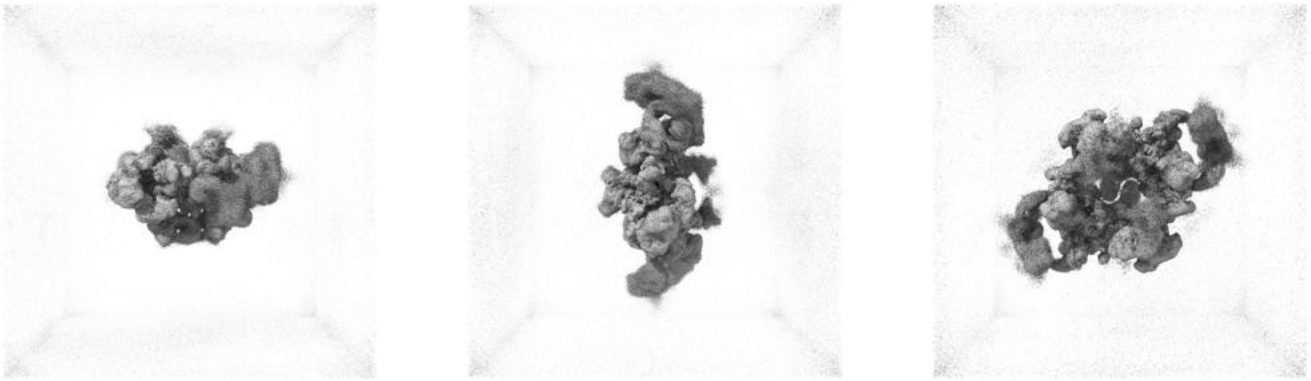
6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.085. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

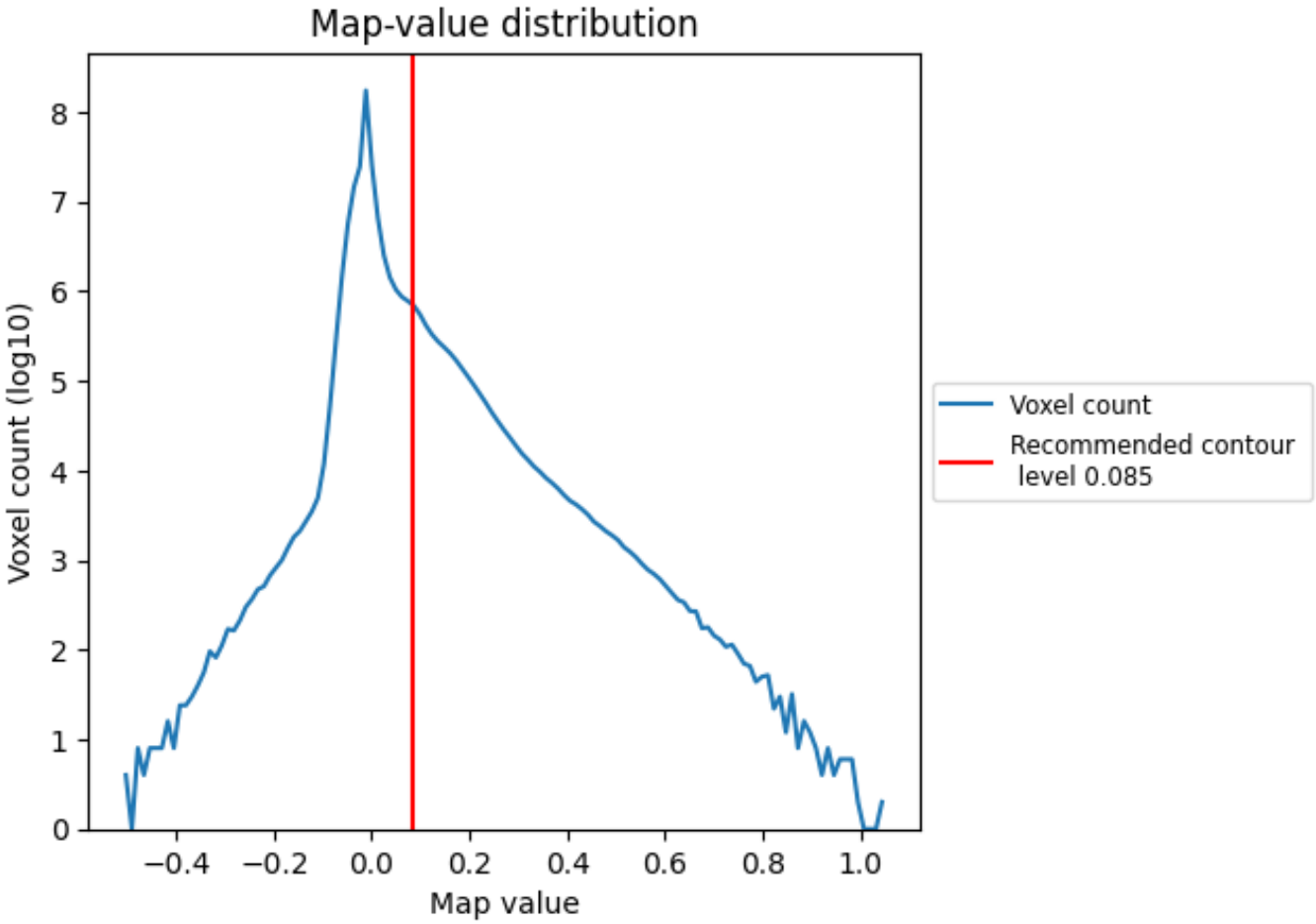
6.6 Mask visualisation (i)

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

7 Map analysis

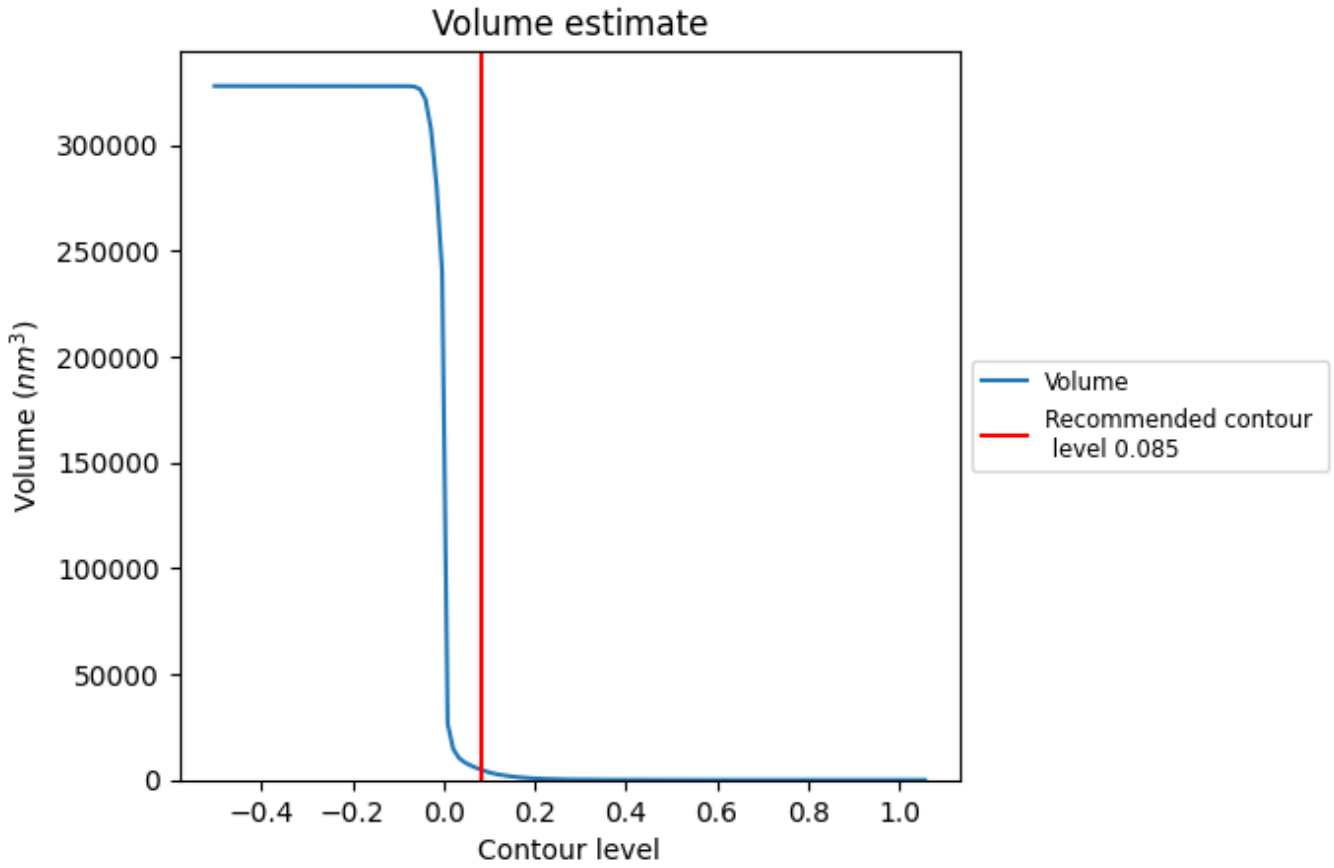
This section contains the results of statistical analysis of the map.

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.

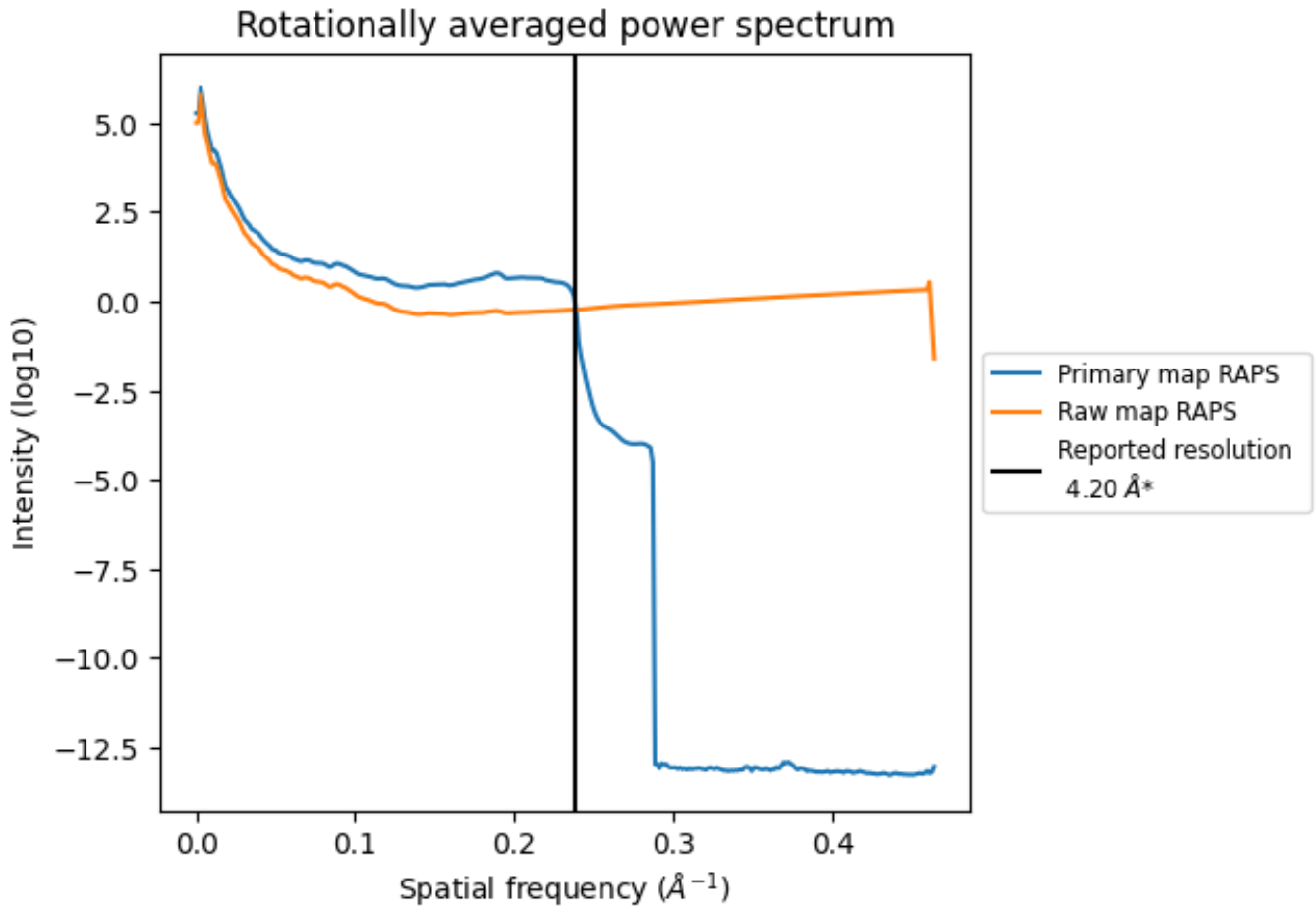
7.2 Volume estimate



The volume at the recommended contour level is 4642 nm^3; this corresponds to an approximate mass of 4193 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)

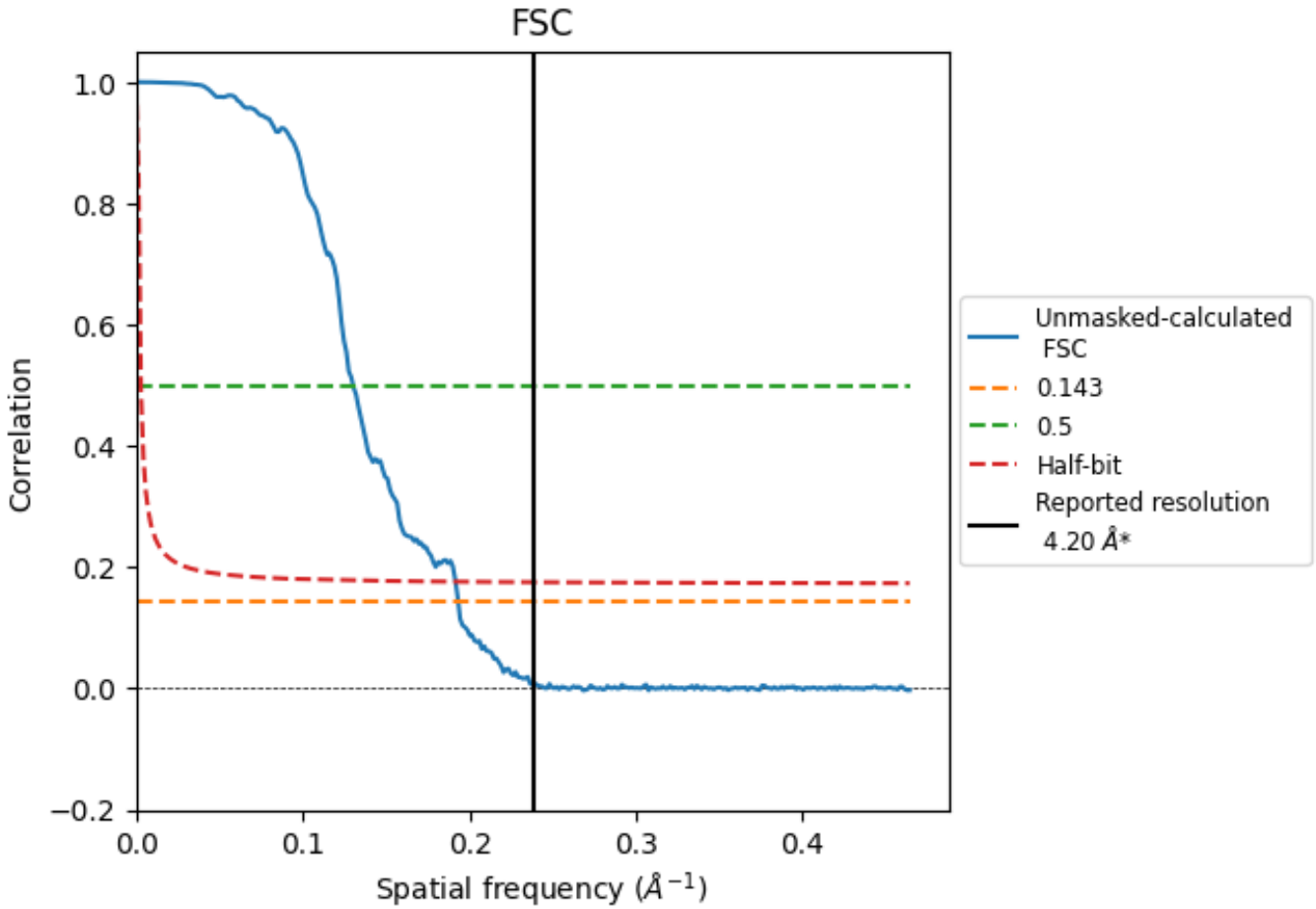


*Reported resolution corresponds to spatial frequency of 0.238 $Å^{-1}$

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 0.238 Å^{-1}

8.2 Resolution estimates (i)

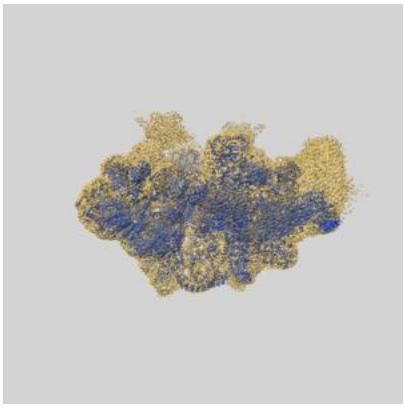
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.20	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	5.18	7.68	5.22

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 5.18 differs from the reported value 4.2 by more than 10 %

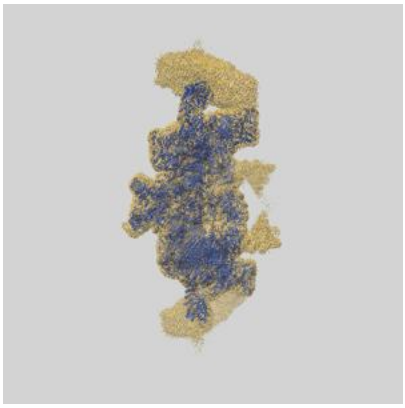
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-65575 and PDB model 9W2M. Per-residue inclusion information can be found in section 3 on page 12.

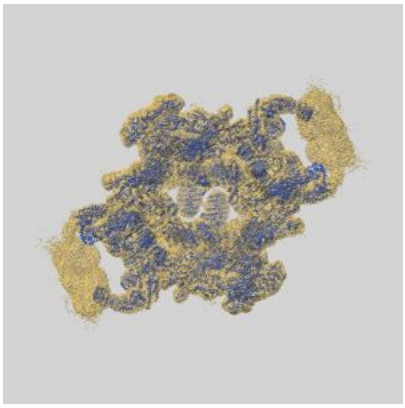
9.1 Map-model overlay



X



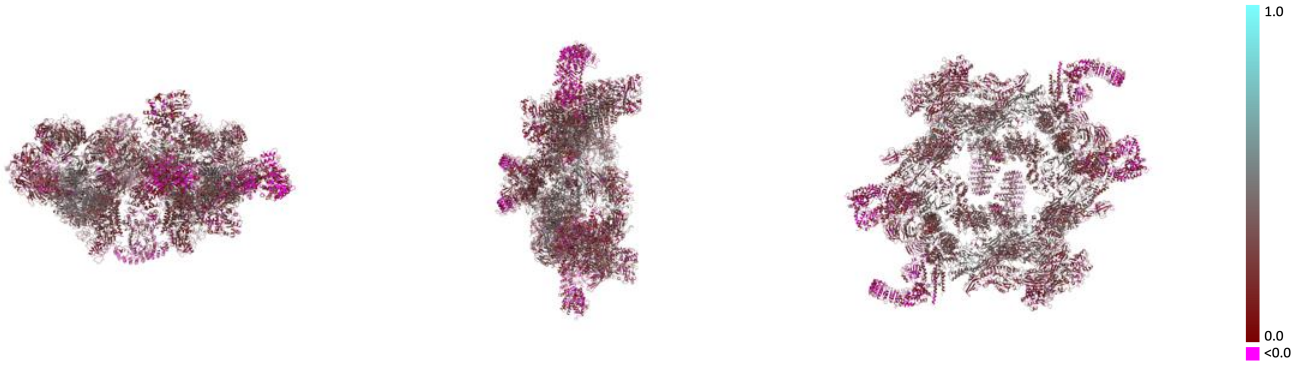
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.085 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.

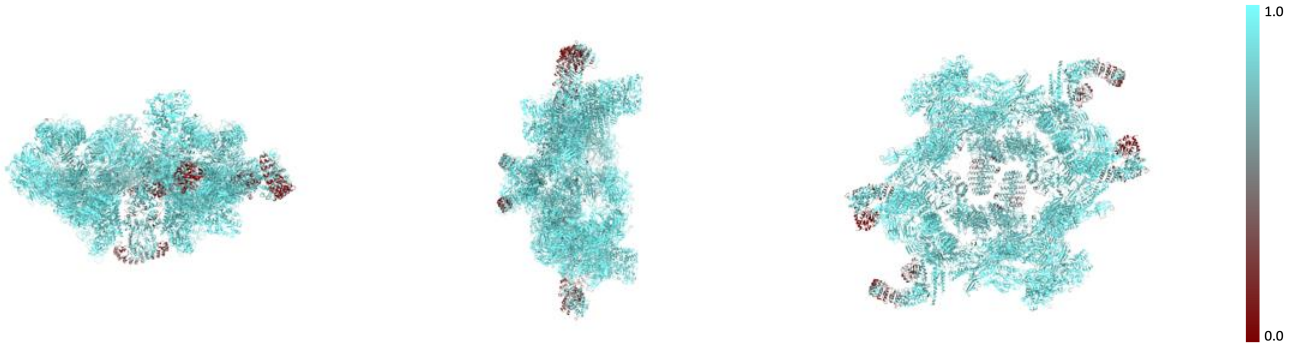
9.2 Q-score mapped to coordinate model (i)



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.

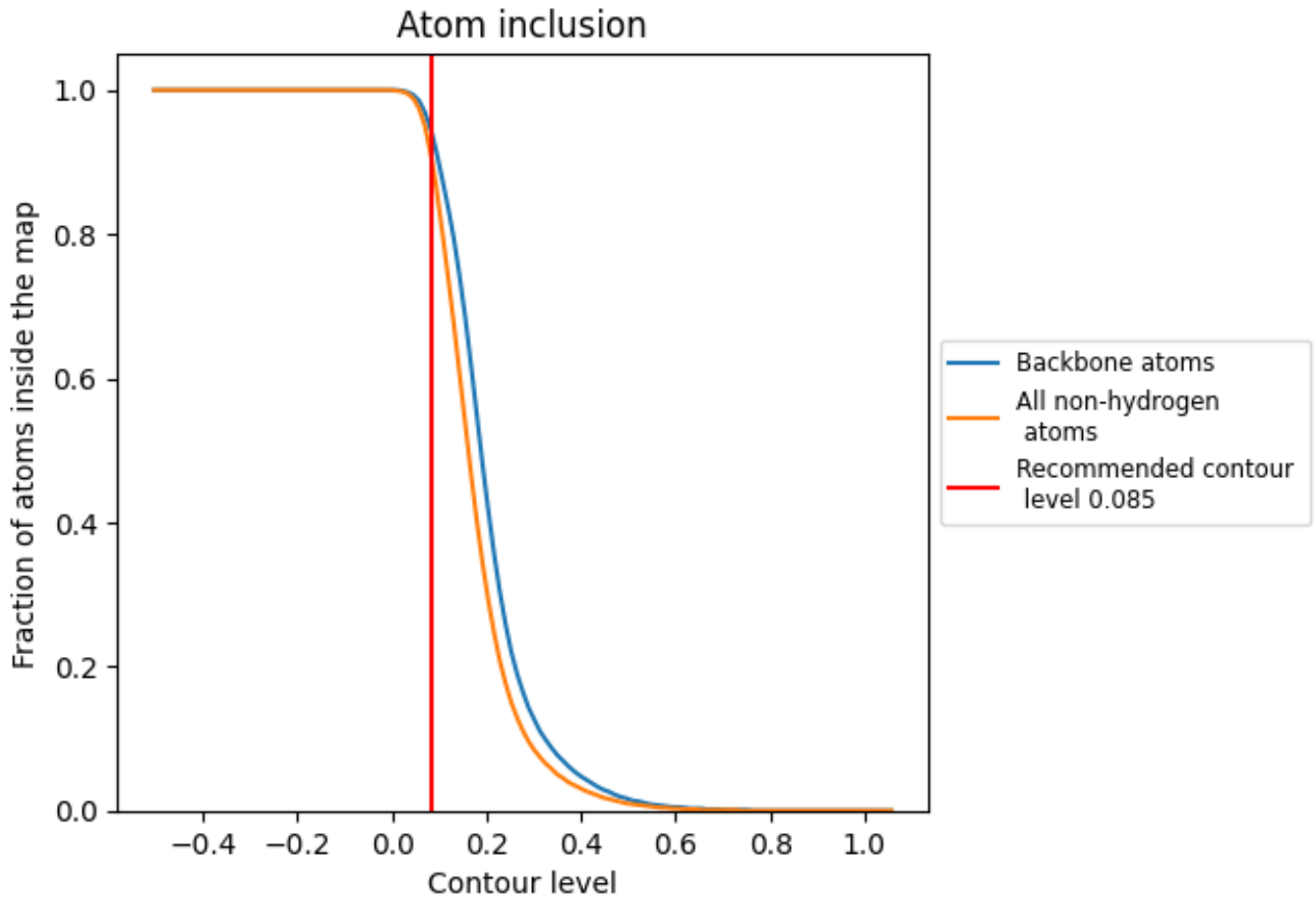
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.085).

9.4 Atom inclusion (i)



At the recommended contour level, 94% of all backbone atoms, 90% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.085) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9010	0.2570
1	0.9450	0.3770
11	0.9430	0.3760
12	0.9590	0.3780
13	0.9530	0.2890
14	0.9600	0.2450
15	0.9700	0.2180
16	0.9660	0.2230
17	0.9550	0.3400
18	0.9490	0.3660
19	0.9560	0.2670
2	0.9580	0.3760
3	0.9530	0.2910
4	0.9620	0.2460
5	0.9690	0.2190
6	0.9680	0.2240
7	0.9550	0.3410
8	0.9590	0.3880
9	0.9540	0.2680
A	0.9680	0.2770
B	0.9850	0.2510
C	0.9440	0.2590
D	0.8920	0.2360
E	0.6420	0.1090
F	0.9420	0.2570
G	0.9600	0.2550
H	0.9800	0.2720
I	0.5840	0.1160
J	0.9160	0.2920
K	0.6710	0.1630
L	0.9660	0.2480
M	0.9340	0.2610
N	0.8510	0.1930
O	0.9570	0.3490
P	0.9290	0.2970

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Chain	Atom inclusion	Q-score
Q	0.9830	0.1160
R	0.9880	0.2560
Z	0.9380	0.3090
a	0.9670	0.2790
b	0.9850	0.2500
c	0.9430	0.2580
d	0.8920	0.2320
e	0.6410	0.1070
f	0.9410	0.2580
g	0.9590	0.2540
h	0.9800	0.2700
i	0.5840	0.1160
j	0.9150	0.2950
k	0.6690	0.1610
l	0.9670	0.2490
m	0.9350	0.2610
n	0.8510	0.1940
o	0.9570	0.3500
p	0.9300	0.2980
q	0.9830	0.1220
r	0.9930	0.2610
z	0.9120	0.2640