

ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	84551
ToLID	iyCamVagul
Species	<i>Camponotus vagus</i>
Class	Insecta
Order	Hymenoptera

Genome Traits	Expected	Observed
Haploid size (bp)	299,749,104	296,104,461
Haploid Number	14 (source: direct)	14
Ploidy	1 (source: ancestor)	1
Sample Sex	NA	NA

EBP metrics summary and curation notes

Obtained EBP quality metric for hap1: 6.7.Q64

The following metrics were automatically flagged as below EBP recommended standards or different from expected:

Curator notes

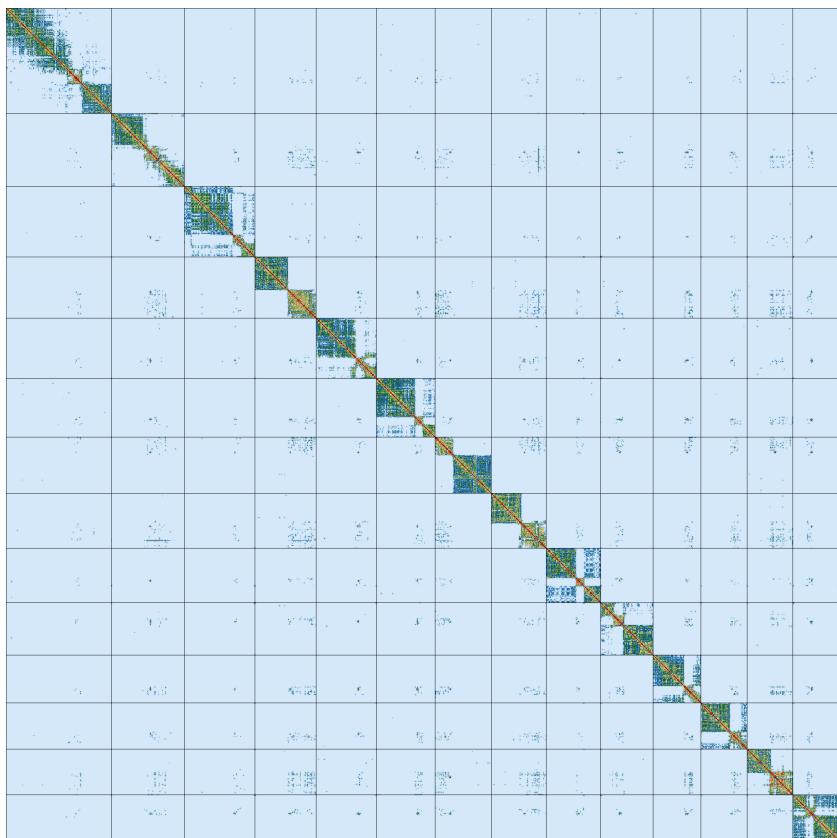
- . Interventions/Gb: 101
- . Contamination notes: ""
- . Other observations: "None"

Quality metrics table

Metrics	Pre-curation hap1	Curated hap1
Total bp	297,983,080	296,104,461
GC %	34.41	34.4
Gaps/Gbp	607.42	715.96
Total gap bp	36,200	42,400
Scaffolds	45	21
Scaffold N50	16,861,317	20,871,121
Scaffold L50	6	6
Scaffold L90	14	13
Contigs	226	233
Contig N50	3,356,906	3,299,784
Contig L50	27	28
Contig L90	99	102
QV	64.2344	64.3547
Kmer compl.	95.4404	95.3418
BUSCO sing.	99.2%	99.2%
BUSCO dupl.	0.5%	0.5%
BUSCO frag.	0.0%	0.0%
BUSCO miss.	0.3%	0.3%

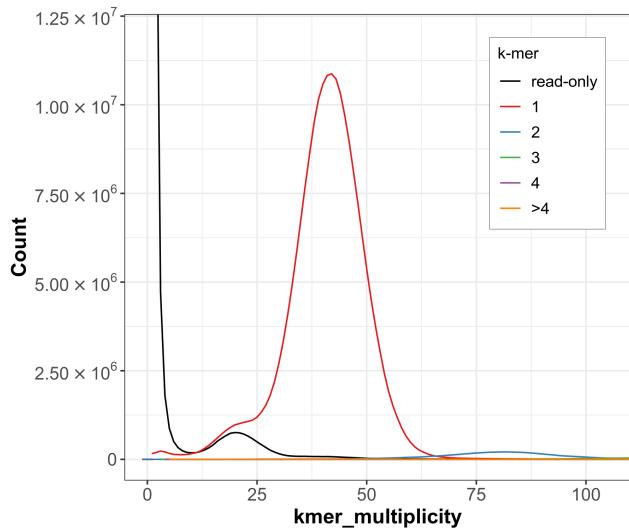
BUSCO: 5.8.0 (euk_genome_min, miniprot) / Lineage: insecta_odb10 (genomes:75, BUSCOs:1367)

HiC contact map of curated assembly

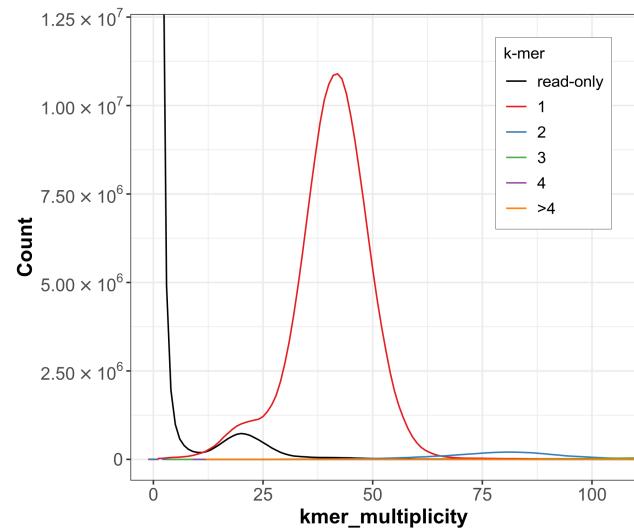


hap1 [LINK]

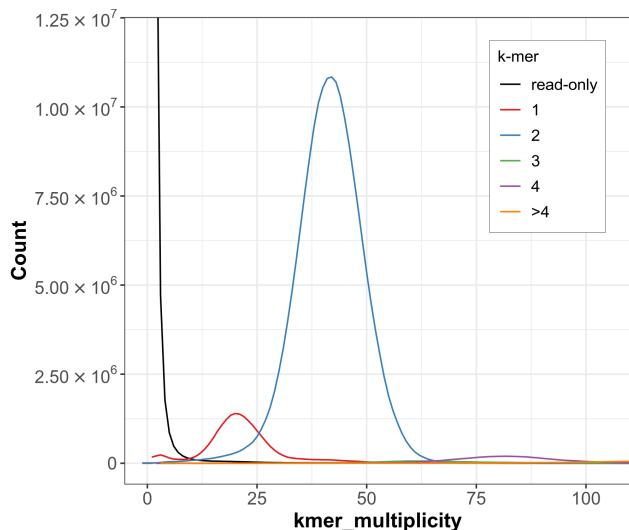
K-mer spectra of curated assembly



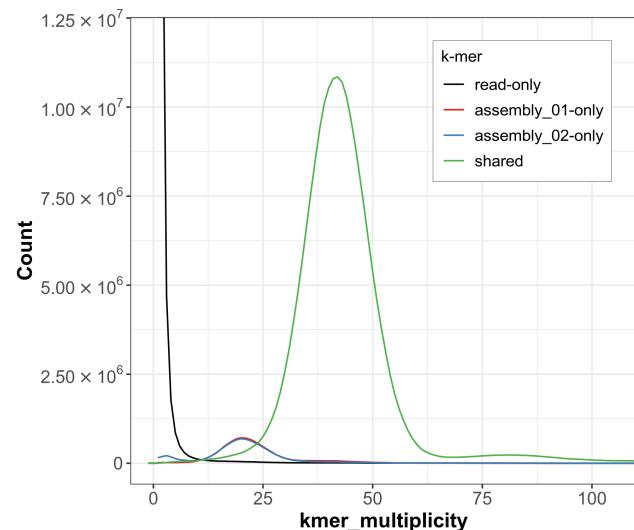
Distribution of k-mer counts per copy numbers found in **assembly_02** (hapl.)



Distribution of k-mer counts per copy numbers found in **assembly_01** (hapl.)

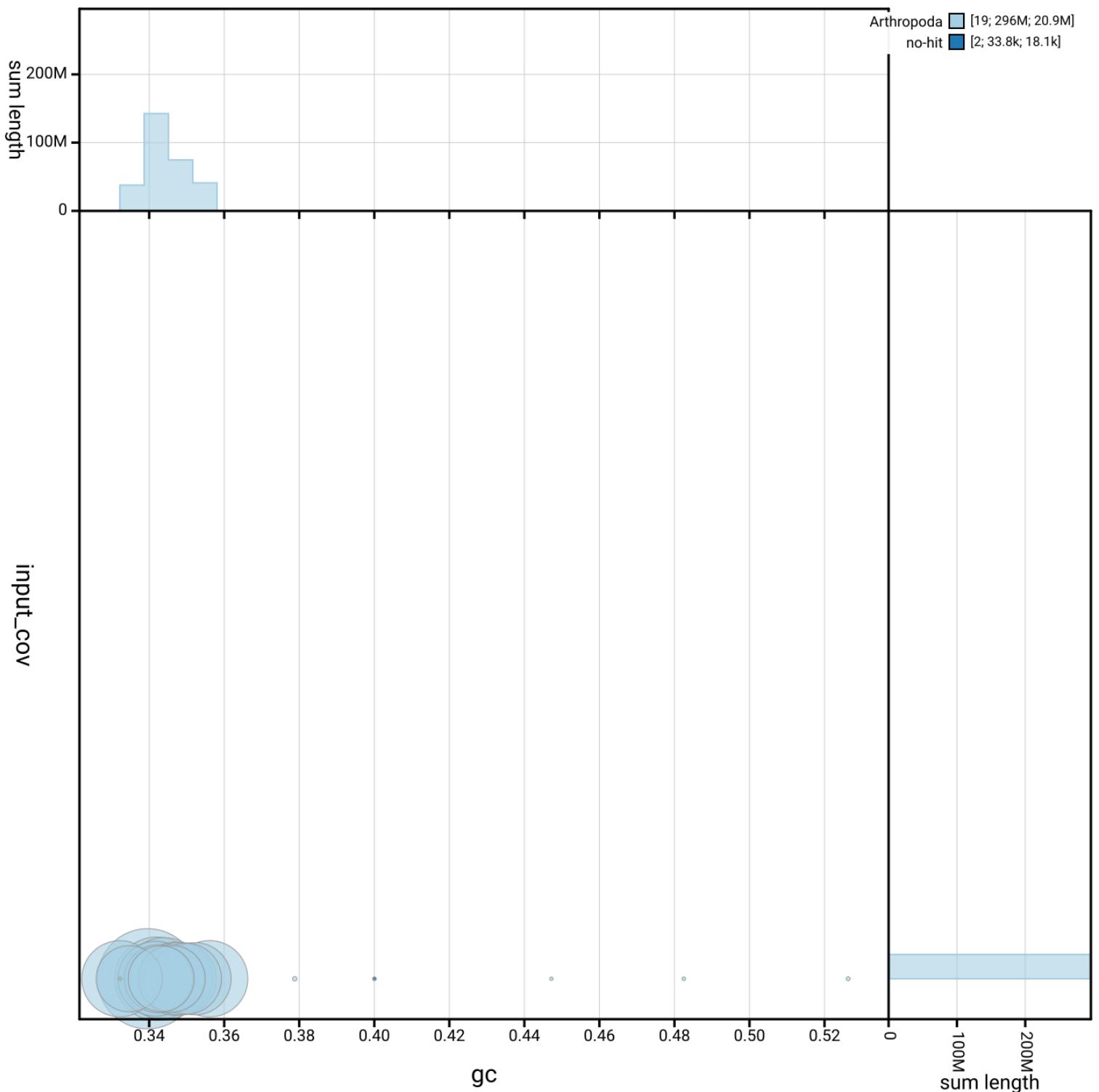


Distribution of k-mer counts per copy numbers found in asm (dipl.)



Distribution of k-mer counts coloured by their presence in reads/assemblies

Post-curation contamination screening



hap1. Bubble plot circles are scaled by sequence length, positioned by coverage and GC proportion, and coloured by taxonomy. Histograms show total assembly length distribution on each axis.

Data profile

	Data	HiFi	HiC
Coverage	45.53X	62.69X	

Assembly pipeline

- **Hifiasm**
 - |_ ver: Galaxy Version 0.24.0+galaxy0
 - |_ key param: VGP Galaxy workflow VGP3 v 3.12
- **YaHS**
 - |_ ver: Galaxy Version 1.2a.2+galaxy2
 - |_ key param: VGP Galaxy workflow VGP8 v 2.2

Curation pipeline

- **PretextMap**
 - |_ ver: Galaxy Version 0.1.9+galaxy1
 - |_ key param: VGP workflow VGP PretextMap generation v2
- **PretextViewAI**
 - |_ ver: 1.0.3
 - |_ key param: NA

Submitter: Marcella Sozzoni

Affiliation: UNIFI

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