

# ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	597850
ToLID	<b>iyAntRoge3</b>
Species	<i>Anthophora rogenhoferi</i>
Class	Insecta
Order	Hymenoptera

Genome Traits	Expected	Observed
Haploid size (bp)	445,419,612	441,476,508
Haploid Number	9 (source: ancestor)	17
Ploidy	1 (source: ancestor)	2
Sample Sex	NA	NA

## EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 7.7.Q65

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

- . Observed Haploid Number is different from Expected
- . Observed Ploidy is different from Expected
- . Not 90% of assembly in chromosomes for collapsed

### Curator notes

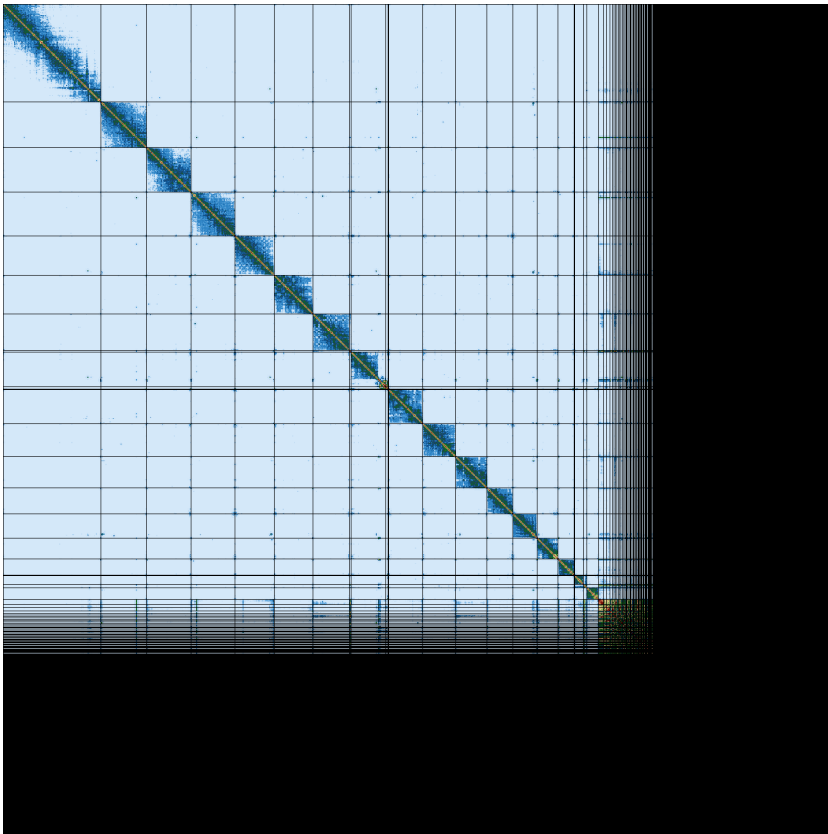
- . Interventions/Gb:
- . Contamination notes: ""
- . Other observations: "The assembly was produced with hifiiasm in Hi-C mode, decontaminated with FCS-GX, and haplotigs purged with purge\_dups. Scaffolding was performed with YaHS. Mitochondria was assembled with Oatk."

# Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	442,215,395	441,476,508
GC %	40.41	40.42
Gaps/Gbp	36.18	36.24
Total gap bp	3,200	3,200
Scaffolds	1,085	1,085
Scaffold N50	16,560,000	17,437,000
Scaffold L50	9	10
Scaffold L90	350	350
Contigs	1,101	1,101
Contig N50	10,497,625	10,497,625
Contig L50	13	13
Contig L90	366	366
QV	65.2913	65.284
Kmer compl.	91.9202	91.9158
BUSCO sing.	98.7%	99.1%
BUSCO dupl.	0.5%	0.2%
BUSCO frag.	0.1%	0.1%
BUSCO miss.	0.6%	0.6%

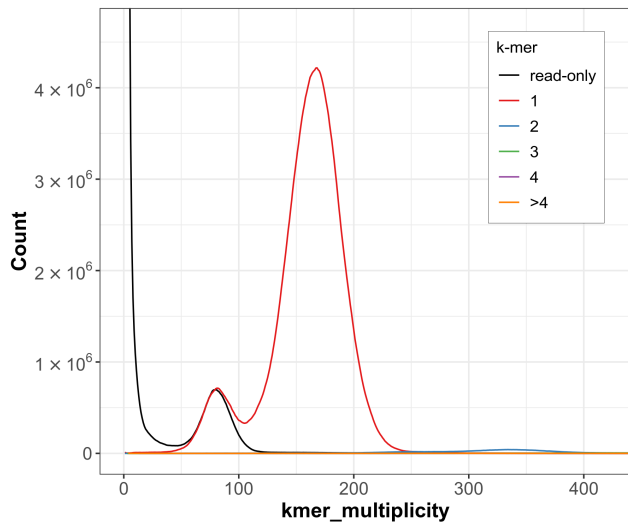
BUSCO: 6.0.0 (euk\_genome\_min, miniprot) / Lineage: hymenoptera\_odb10 (genomes:40, BUSCOs:5991)

# HiC contact map of curated assembly

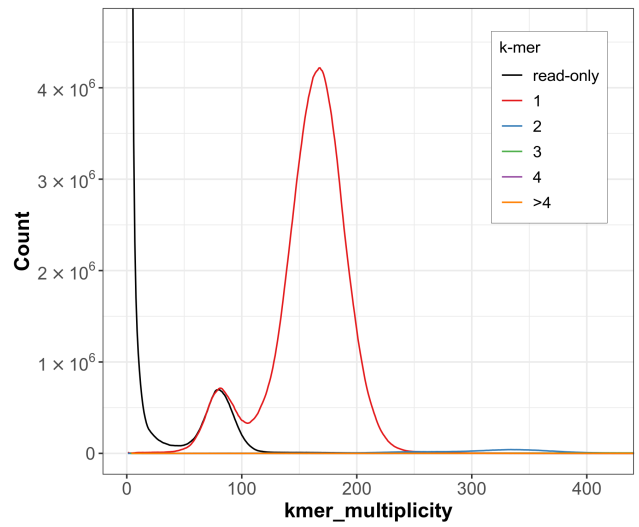


collapsed [\[LINK\]](#)

# K-mer spectra of curated assembly

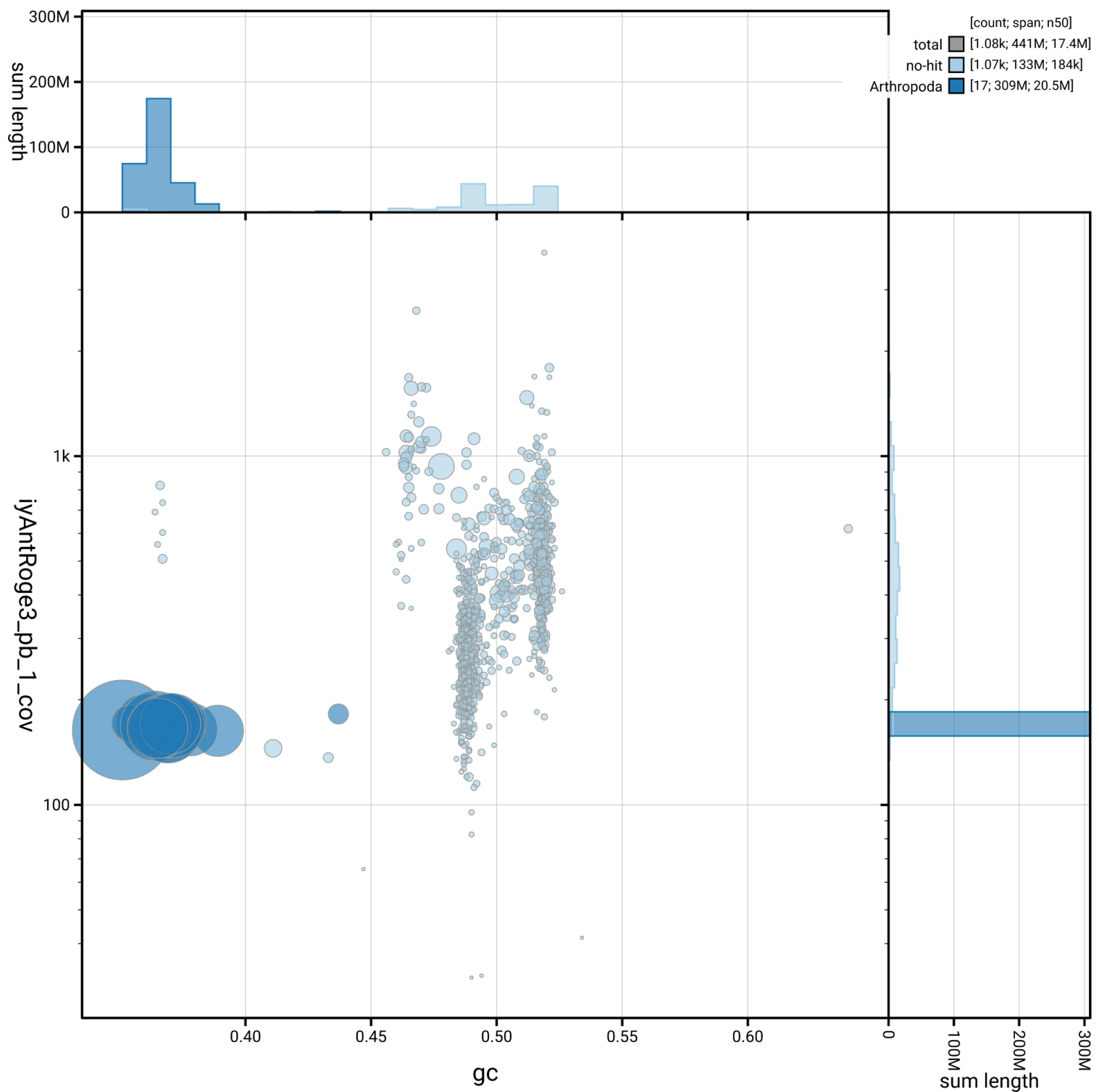


Distribution of k-mer counts per copy numbers found in asm



Distribution of k-mer counts per copy numbers found in asm

# Post-curation contamination screening



**collapsed.** 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	PacBio HiFi	Arima HiC v2
Coverage	50x	27x

# Assembly pipeline

- **hifiasm-hic**
  - |\_ *ver*: 0.25.0-r726
  - |\_ *key param*: --h1
  - |\_ *key param*: --h2
- **purge\_dups**
  - |\_ *ver*: 1.2.5
  - |\_ *key param*: NA
- **YaHS**
  - |\_ *ver*: 1.2a.2
  - |\_ *key param*: NA
- **NBIS/Earth-Biogenome-Project-pilot**
  - |\_ *ver*: 99c8937
  - |\_ *key param*: NA
- **sanger-tol/blobtoolkit**
  - |\_ *ver*: 0.8.0
  - |\_ *key param*: NA
- **Oatk**
  - |\_ *ver*: 1.0
  - |\_ *key param*: -m hymenoptera.fam

# Curation pipeline

- **sanger-tol/curationpretext**
  - |\_ *ver*: 1.4.2
  - |\_ *key param*: NA
- **sanger-tol/agp-tpf-utils**
  - |\_ *ver*: 1.2.3
  - |\_ *key param*: NA

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Date and time: 2025-10-15 10:32:49 CEST