

# ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	3127772
ToLID	<b>qqGyaAnnu4</b>
Species	Gyas annulatus
Class	Arachnida
Order	Opiliones

Genome Traits	Expected	Observed
Haploid size (bp)	319,226,850	411,896,427
Haploid Number	8 (source: ancestor)	15
Ploidy	2 (source: ancestor)	2
Sample Sex	NA	NA

## EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 7.7.Q58

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

- . Observed Haploid size (bp) has >20% difference with Expected
- . Observed Haploid Number is different from Expected
- . Kmer completeness value is less than 90 for pri
- . Assembly length loss > 3% for pri

### Curator notes

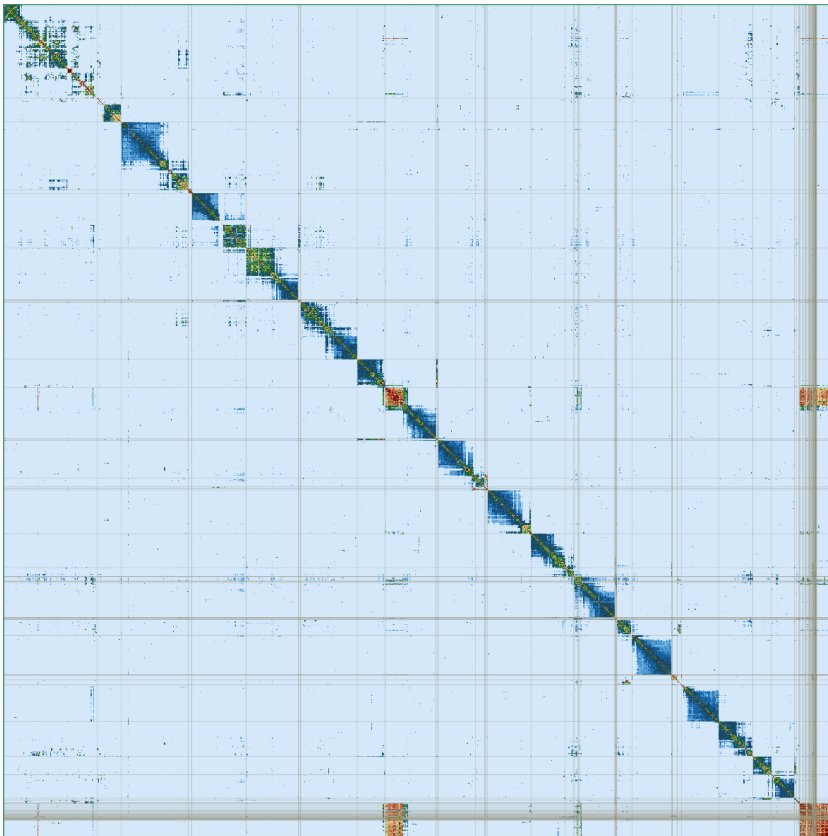
- . Interventions/Gb: None
- . Contamination notes: ""
- . Other observations: "Difficult to tell where a lot of the repetitive sequences should be placed"

# Quality metrics table

Metrics	Pre-curation pri	Curated pri
Total bp	443,694,577	411,896,427
GC %	35.45	35.4
Gaps/Gbp	268.2	305.9
Total gap bp	23,800	25,200
Scaffolds	469	447
Scaffold N50	24,015,000	33,959,686
Scaffold L50	7	5
Scaffold L90	19	12
Contigs	588	573
Contig N50	12,703,170	12,142,491
Contig L50	13	13
Contig L90	61	57
QV	58.4887	58.4969
Kmer compl.	90.6235	89.6815
BUSCO sing.	96.0%	96.0%
BUSCO dupl.	1.9%	1.9%
BUSCO frag.	0.7%	0.7%
BUSCO miss.	1.4%	1.4%

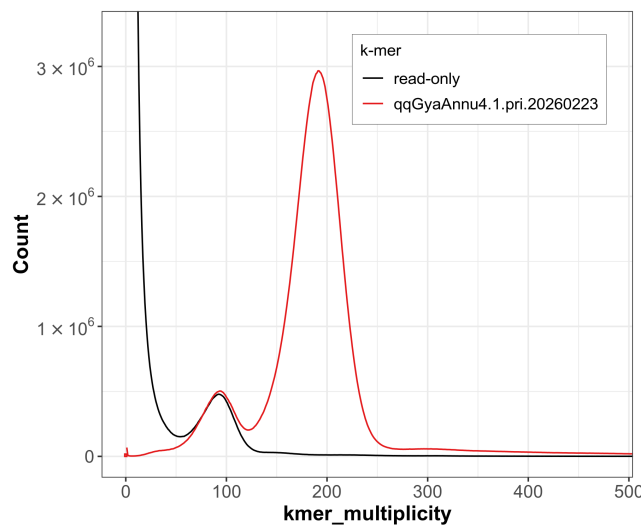
BUSCO: 6.0.0 (euk\_genome\_min, miniprot) / Lineage: arthropoda\_odb12 (genomes:76, BUSCOs:1667)

# HiC contact map of curated assembly

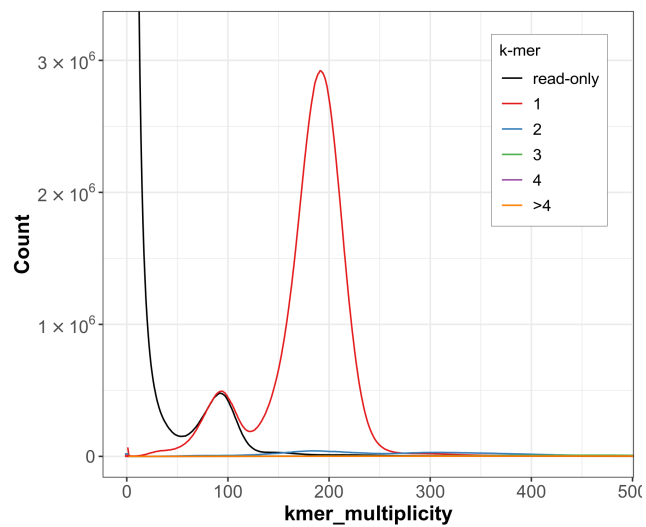


pri [\[LINK\]](#)

# K-mer spectra of curated assembly

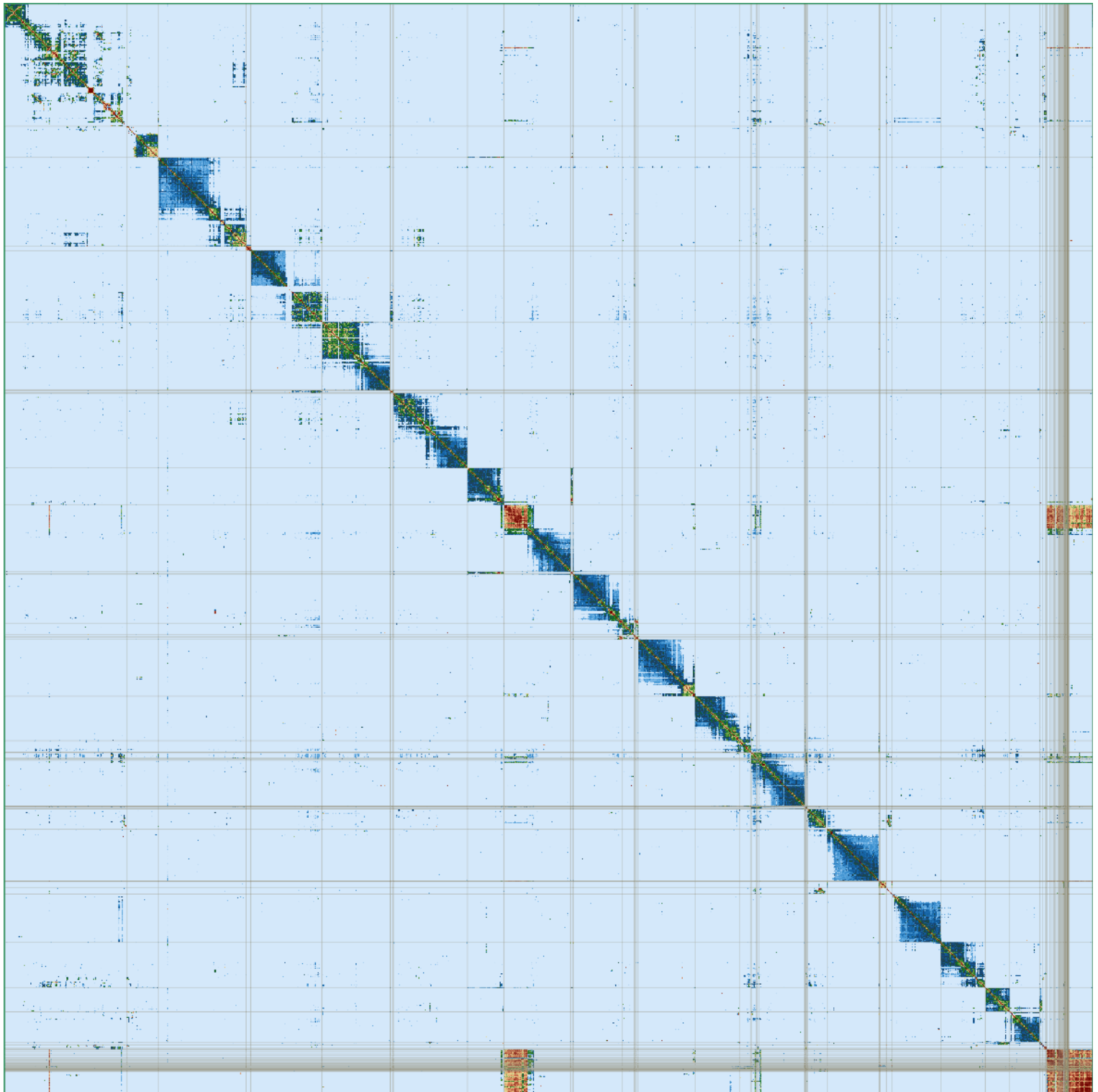


Distribution of k-mer counts coloured by their presence in reads/assemblies



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

# Post-curation contamination screening



**pri.** 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	ONT	HiC
Coverage	NA	NA

# Assembly pipeline

- **HiFiasm**
  - |\_ *ver*: 0.25.0
  - |\_ *key param*: NA
- **purge-dups**
  - |\_ *ver*: 1.2.6
  - |\_ *key param*: NA
- **yahs**
  - |\_ *ver*: 1.1a
  - |\_ *key param*: NA
- **fcs-gx**
  - |\_ *ver*: 0.5.0
  - |\_ *key param*: NA

# Curation pipeline

- **PretextView**
  - |\_ *ver*: 1.0.0
  - |\_ *key param*: NA

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