

# ERGA Assembly Report

v24.09.10

Tags: ERGA-BGE

TxID	1518524
ToLID	<b>qqMacCret1</b>
Species	Macrothele cretica
Class	Arachnida
Order	Araneae

Genome Traits	Expected	Observed
Haploid size (bp)	3,736,835,300	3,972,797,524
Haploid Number	23 (source: ancestor)	47
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

## EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 6.7.Q58

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

- . Observed Haploid Number is different from Expected

### Curator notes

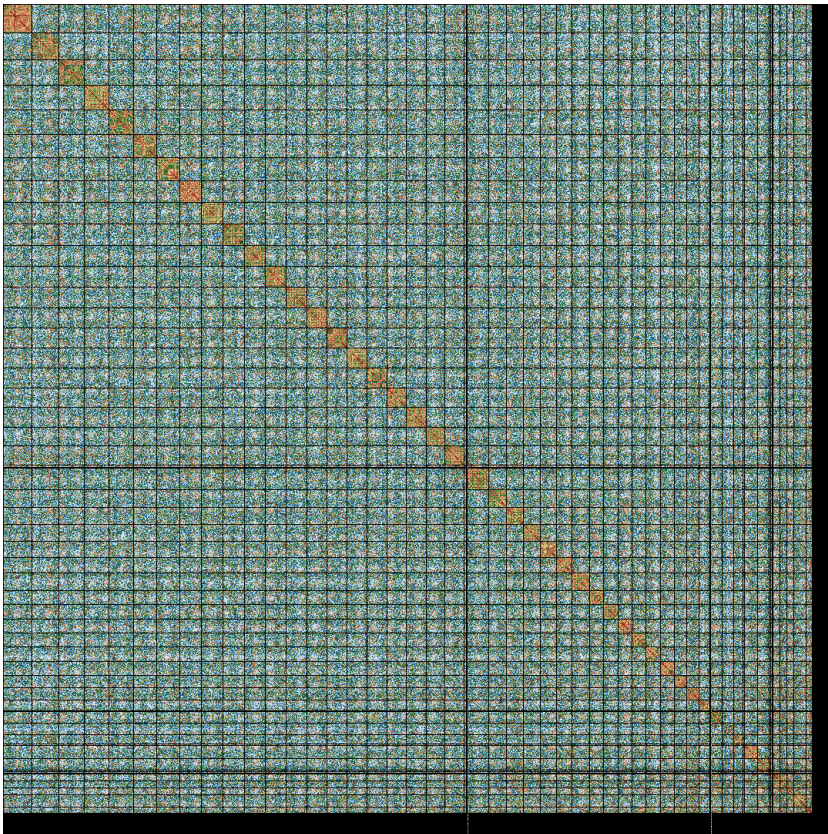
- . Interventions/Gb: 28
- . Contamination notes: "2 bacterial contigs removed after assembly "
- . Other observations: "11 scaffolds with lower coverage corresponding to X chromosomes renamed X\_1 to X\_11 ccording to length "

# Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	3,977,790,240	3,972,797,524
GC %	40.57	40.57
Gaps/Gbp	562.88	569.62
Total gap bp	223,900	232,600
Scaffolds	733	561
Scaffold N50	90,425,106	94,972,223
Scaffold L50	19	19
Scaffold L90	44	41
Contigs	2,972	2,824
Contig N50	3,118,366	3,123,923
Contig L50	368	367
Contig L90	1,354	1,353
QV	58.205	58.2097
Kmer compl.	96.3213	96.3081
BUSCO sing.	96.1%	96.1%
BUSCO dupl.	2.7%	2.7%
BUSCO frag.	1.2%	1.2%
BUSCO miss.	0.0%	0.0%

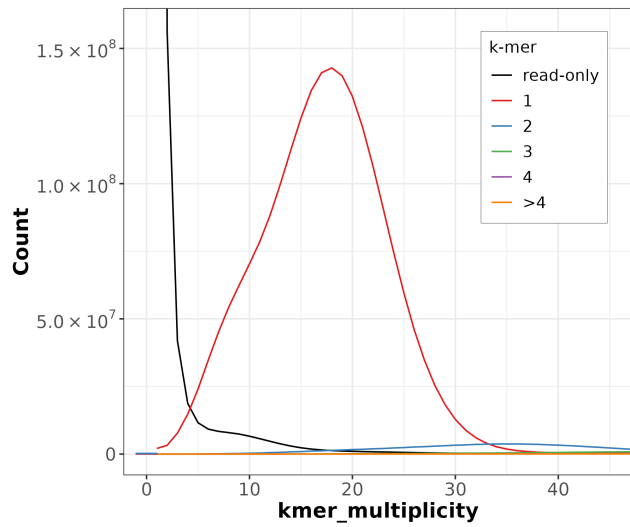
BUSCO 5.4.3 Lineage: eukaryota\_odb10 (genomes:70, BUSCOs:255)

# HiC contact map of curated assembly

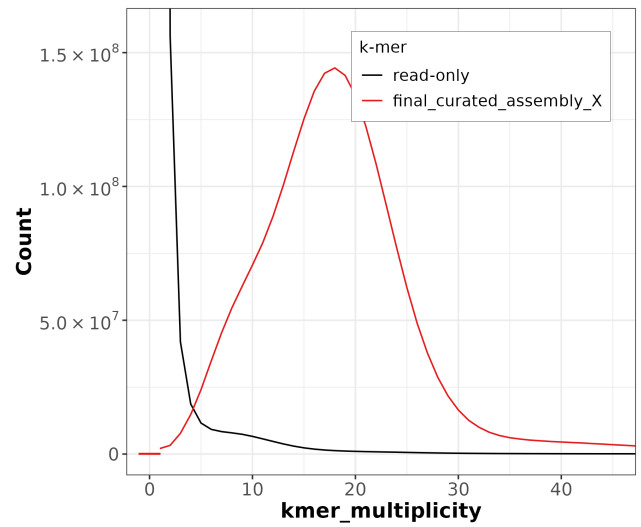


collapsed [\[LINK\]](#)

# K-mer spectra of curated assembly

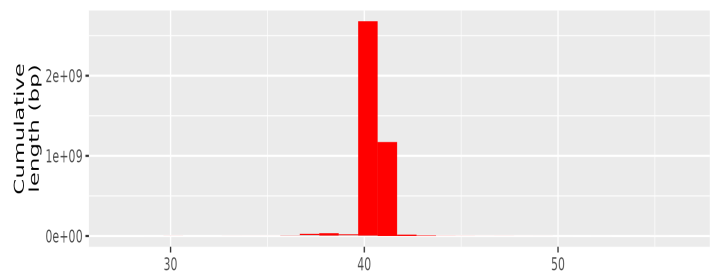


Distribution of k-mer counts per copy numbers found in asm

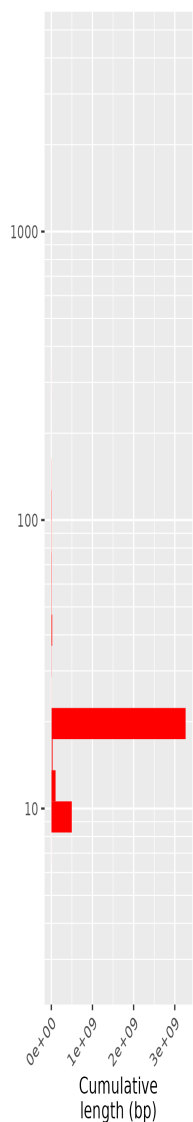
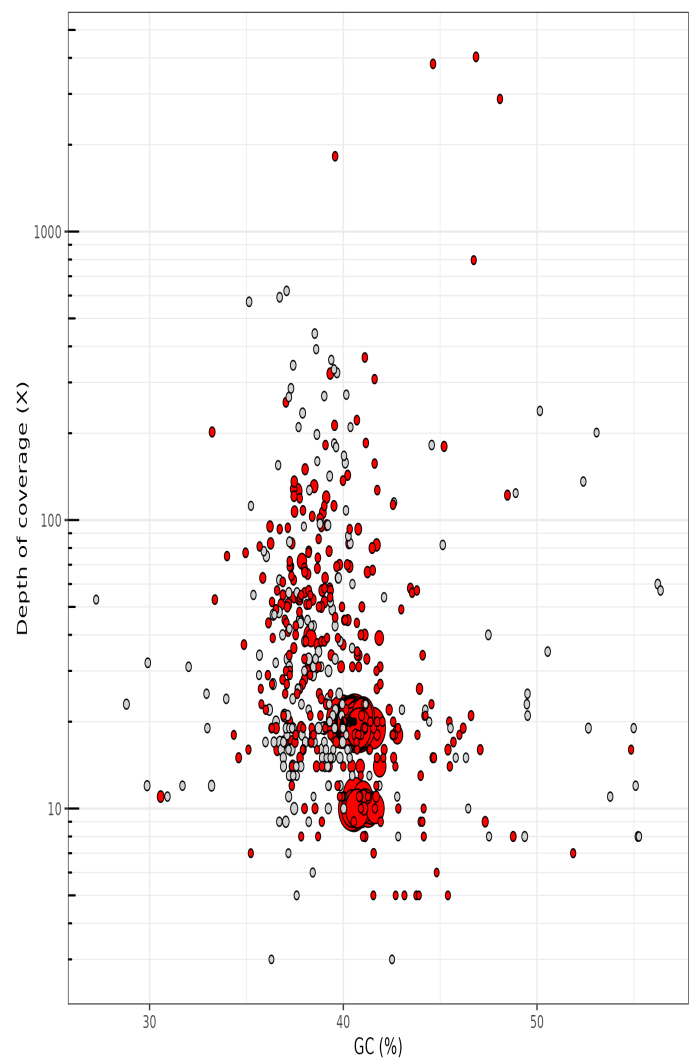


Distribution of k-mer counts coloured by their presence in reads/assemblies

# Post-curation contamination screening



TAPAs summary Graph



Longest sequences (bp)

- SUPER\_1 - 138909147 (Eukaryota)
- ▲ SUPER\_2 - 128092427 (Eukaryota)
- SUPER\_3 - 120350022 (Eukaryota)
- + SUPER\_4 - 119240569 (Eukaryota)
- ▣ SUPER\_5 - 117438305 (Eukaryota)

superkingdom

- Eukaryota
- N/A

Length (bp)

- 5e+07
- 1e+08

**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 (4-enz)
Coverage	62	15

## Assembly pipeline

- **Hifiasm**
  - |\_ *ver*: 0.19.5-r593
  - |\_ *key param*: NA
- **purge\_dups**
  - |\_ *ver*: 1.2.5
  - |\_ *key param*: NA
- **YaHS**
  - |\_ *ver*: 1.2
  - |\_ *key param*: NA

## Curation pipeline

- **PretextMap**
  - |\_ *ver*: 0.1.9
  - |\_ *key param*: NA
- **PretextView**
  - |\_ *ver*: 0.2.5
  - |\_ *key param*: NA

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