

# ERGA Assembly Report

v24.04.03\_beta

Tags: ERGA-BGE

TxID	112209
ToLID	<b>xbPinRadi1</b>
Species	Pinctada radiata
Class	Bivalvia
Order	Pterioda

Genome Traits	Expected	Observed
Haploid size (bp)	866,069,963	950,922,884
Haploid Number	14 (source: ancestor)	14
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	unknown

## EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 6.7.Q60

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

- . Kmer completeness value is less than 90 for collapsed
- . Assembly length loss > 3% for collapsed

### Curator notes

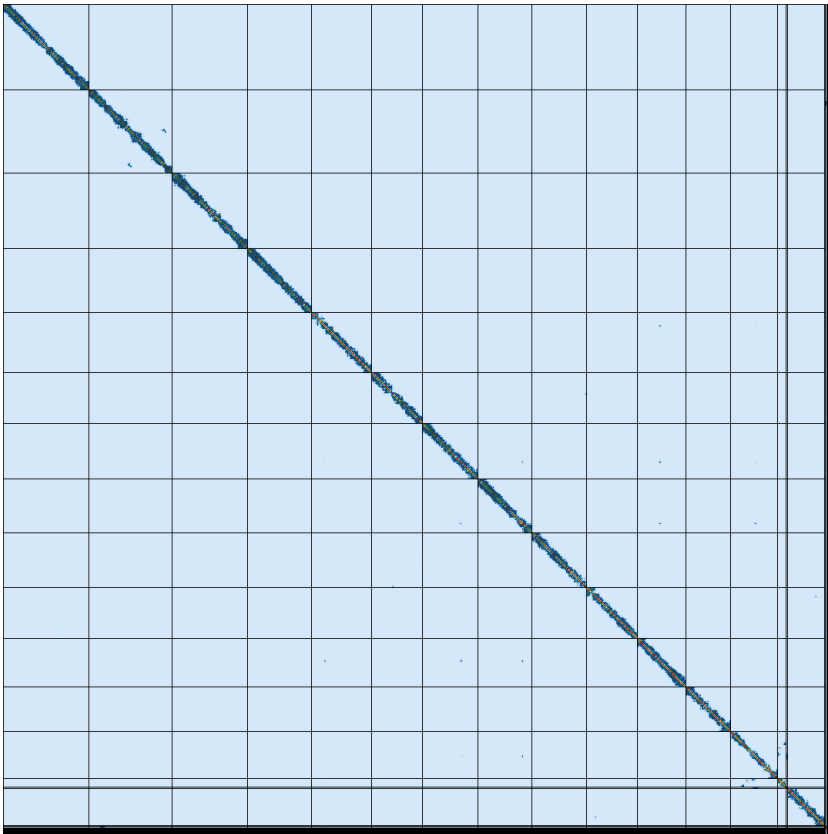
- . Interventions/Gb: 94
- . Contamination notes: "A few bacterial contigs were removed post-assembly"
- . Other observations: "An heterozygous rearrangement was found on the SUPER\_2 scaffold"

# Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	1,005,790,220	950,922,884
GC %	35.44	35.43
Gaps/Gbp	158.08	171.41
Total gap bp	15,900	19,400
Scaffolds	73	70
Scaffold N50	63,972,673	63,751,225
Scaffold L50	7	6
Scaffold L90	14	13
Contigs	232	233
Contig N50	8,276,876	8,181,964
Contig L50	36	34
Contig L90	114	110
QV	60.8643	60.8162
Kmer compl.	67.0763	64.454
BUSCO sing.	94.5%	96.5%
BUSCO dupl.	3.5%	1.6%
BUSCO frag.	2.0%	2.0%
BUSCO miss.	0.0%	0.1%

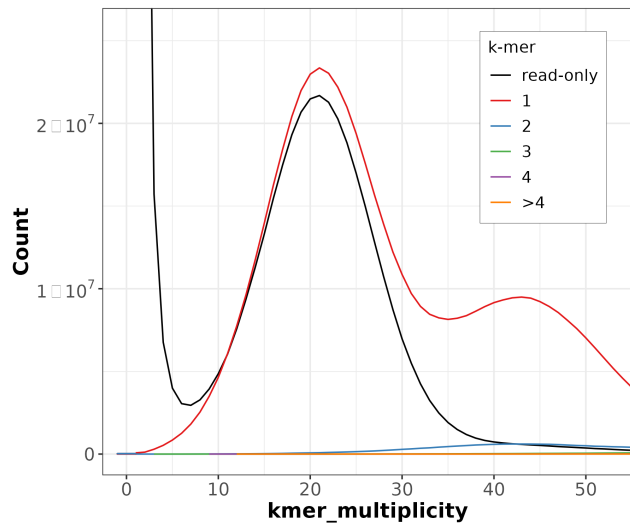
BUSCO 5.4.3 Lineage: eukaryota\_odb10 (genomes:70, BUSCOs:255)

# HiC contact map of curated assembly

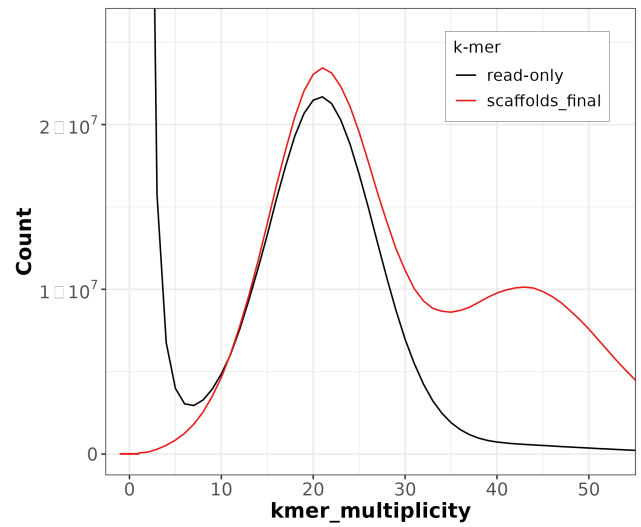


collapsed [\[LINK\]](#)

# K-mer spectra of curated assembly

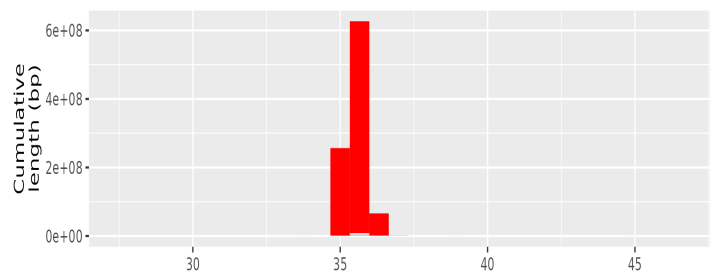


Distribution of k-mer counts per copy numbers found in asm

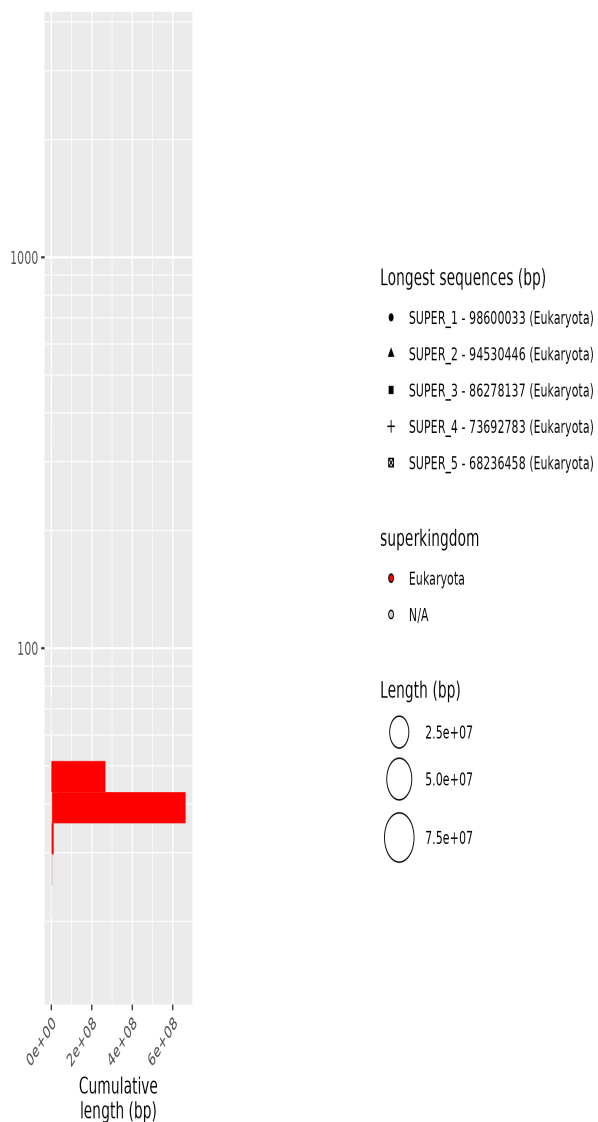
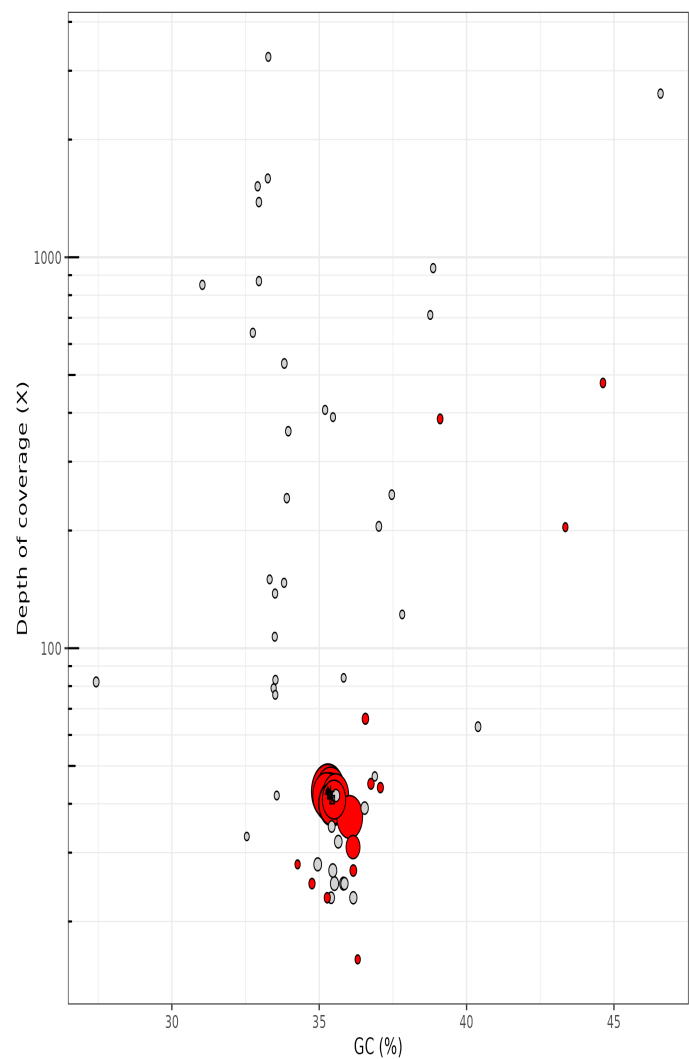


Distribution of k-mer counts coloured by their presence in reads/assemblies

# Post-curation contamination screening



TAPAs summary Graph



**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
Coverage	42

## Assembly pipeline

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

## Curation 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

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