

# ERGA Assembly Report

v24.04.03\_beta

Tags: ERGA-BGE

TxID	112209
ToLID	<b>xbPinRadi</b>
Species	<i>Pinctada radiata</i>
Class	Bivalvia
Order	Pterioida

Genome Traits	Expected	Observed
Haploid size (bp)	866,069,963	931,155,396
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

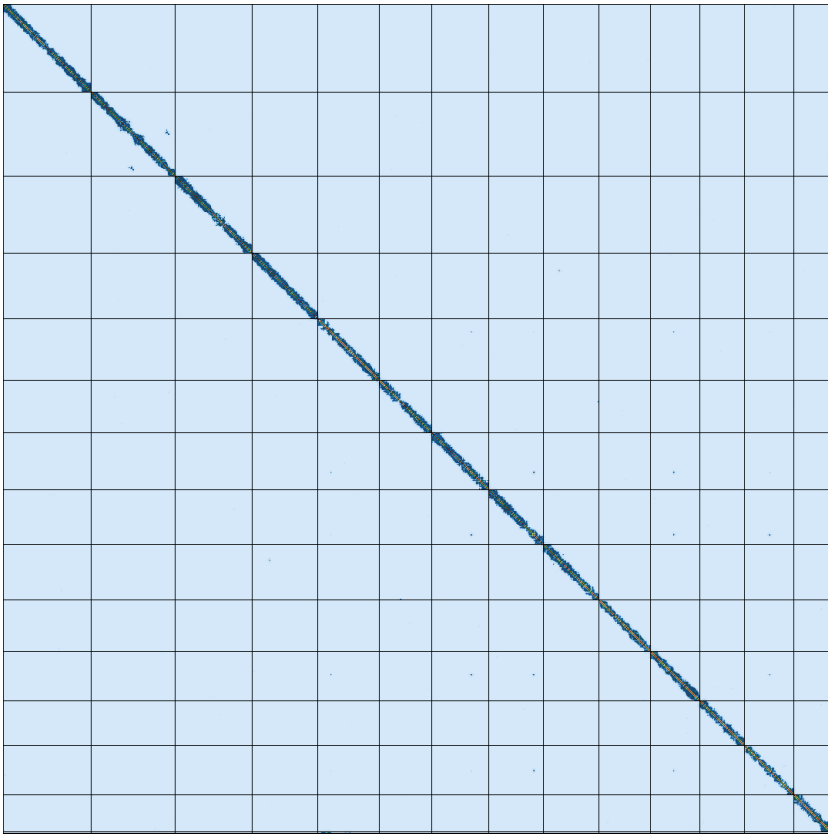
- . Interventions/Gb: 112
- . Contamination notes: "A few bacterial contigs were removed post-assembly"
- . Other observations: "A large heterozygous rearrangement was found and left intact on SUPER\_2"

# Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	1,005,790,220	931,155,396
GC %	35.44	35.42
Gaps/Gbp	158.08	191.16
Total gap bp	15,900	24,700
Scaffolds	73	46
Scaffold N50	63,972,673	63,836,525
Scaffold L50	7	6
Scaffold L90	14	13
Contigs	232	224
Contig N50	8,276,876	8,065,000
Contig L50	36	34
Contig L90	114	108
QV	60.8643	60.8441
Kmer compl.	67.0763	63.6564
BUSCO sing.	94.5%	97.3%
BUSCO dupl.	3.5%	0.8%
BUSCO frag.	2.0%	2.0%
BUSCO miss.	0.0%	0.1%

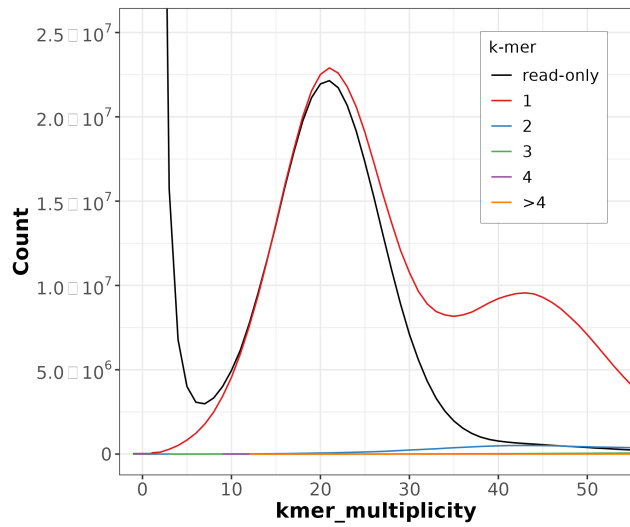
BUSCO 5.4.3 Lineage: eukaryota\_odb10 (genomes:70, BUSCOs:255)

# HiC contact map of curated assembly

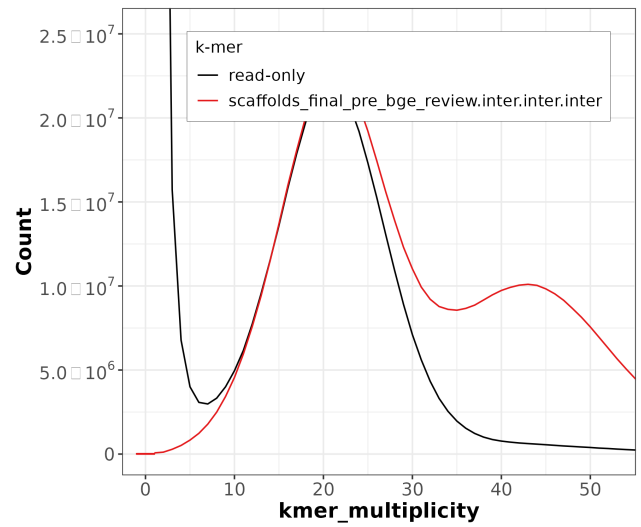


collapsed [\[LINK\]](#)

# K-mer spectra of curated assembly

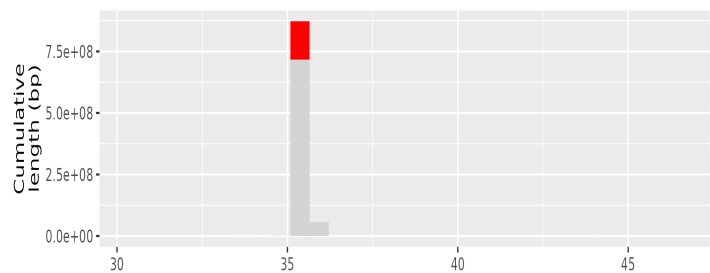


Distribution of k-mer counts per copy numbers found in asm

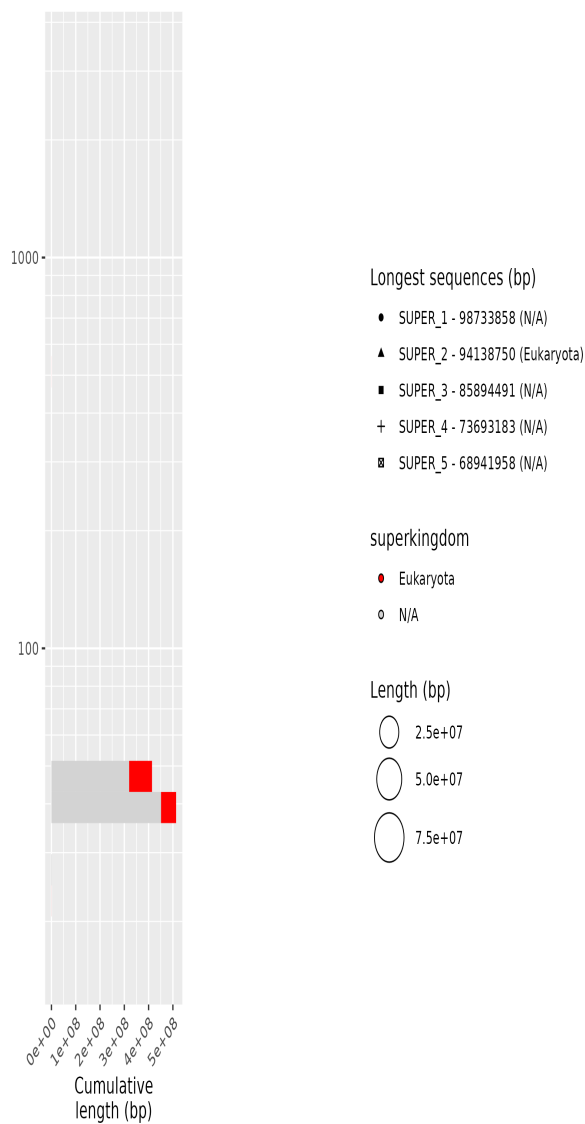
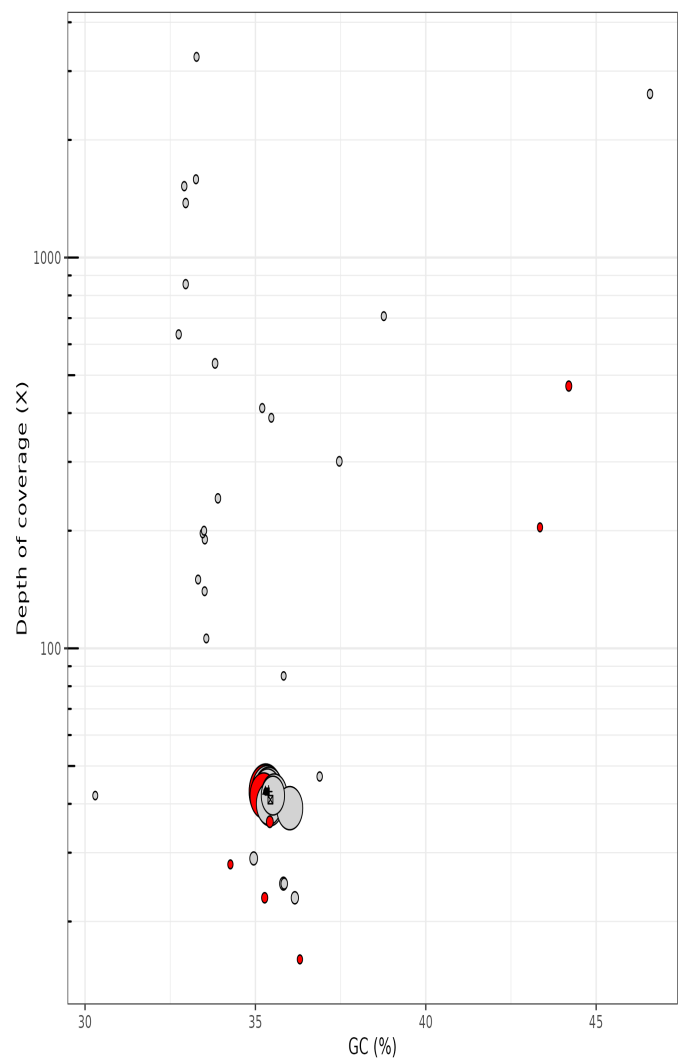


Distribution of k-mer counts coloured by their presence in reads/assemblies

# 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	Arima (4-enz)
Coverage	42	54

## 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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