

ERGA Assembly Report

v24.04.03_beta

Tags: ERGA-BGE

TxID	112209
ToLID	xbPinRadi
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

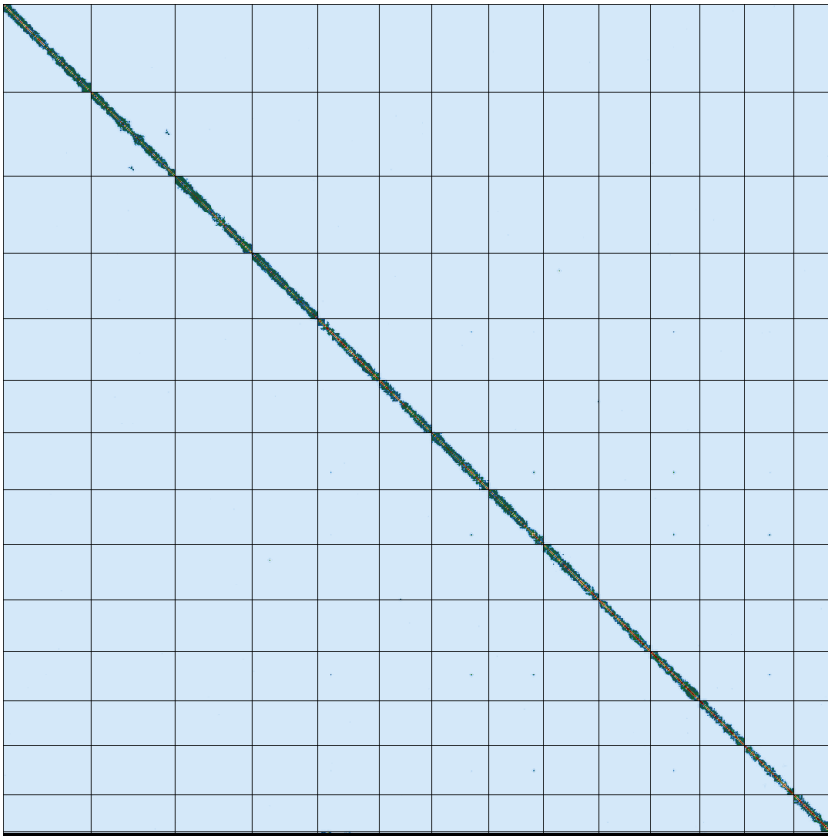
- . Interventions/Gb: 112
- . Contamination notes: "A few bacterial contigs were removed post-assembly"
- . Other observations: "A large heterozygous rearrangement was found and left intact on SUPER_2"

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%

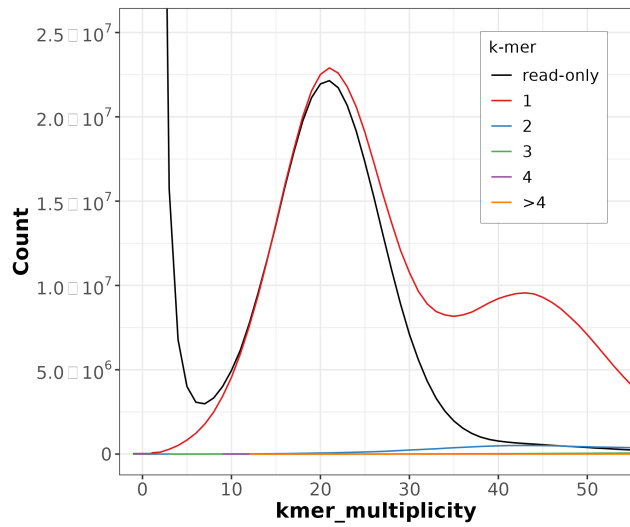
BUSCO 5.4.3 Lineage: eukaryota_odb10 (genomes:70, BUSCOs:255)

HiC contact map of curated assembly

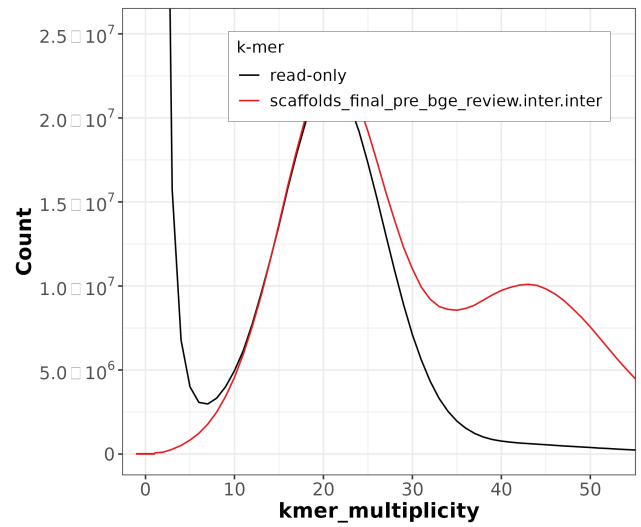


collapsed [\[LINK\]](#)

K-mer spectra of curated assembly

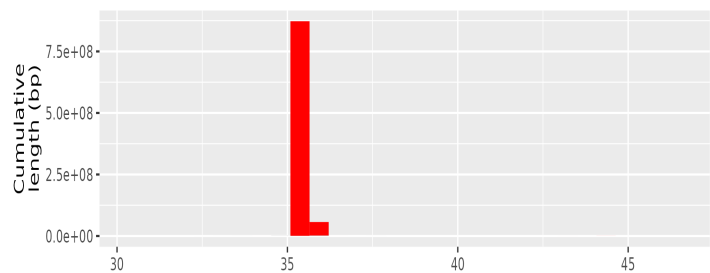


Distribution of k-mer counts per copy numbers found in asm

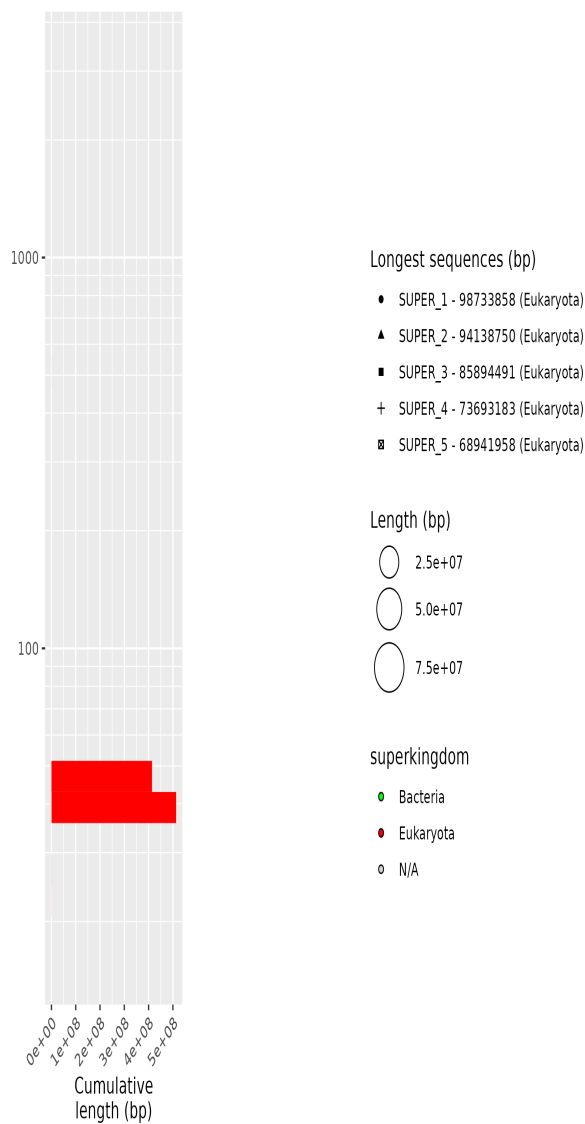
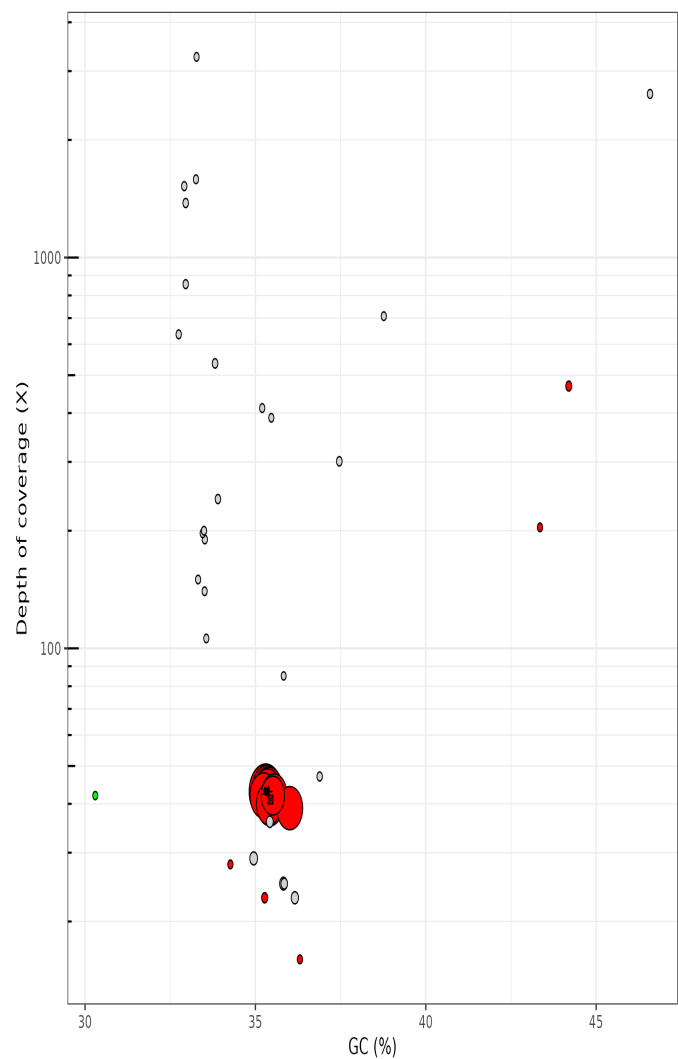


Distribution of k-mer counts coloured by their presence in reads/assemblies

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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