ERGA Assembly Report

v24.09.10

Tags: ATLASea[INVALID TAG]

TxID	396355
ToLID	**jaEunVerr**7.1
Species	Eunicella verrucosa
Class	Anthozoa
Order	Malacalcyonacea

Genome Traits	Expected	Observed
Haploid size (bp)	372,096,591	433,379,001
Haploid Number	6 (source: ancestor)	17
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:

. Observed Haploid Number is different from Expected

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

Curator notes

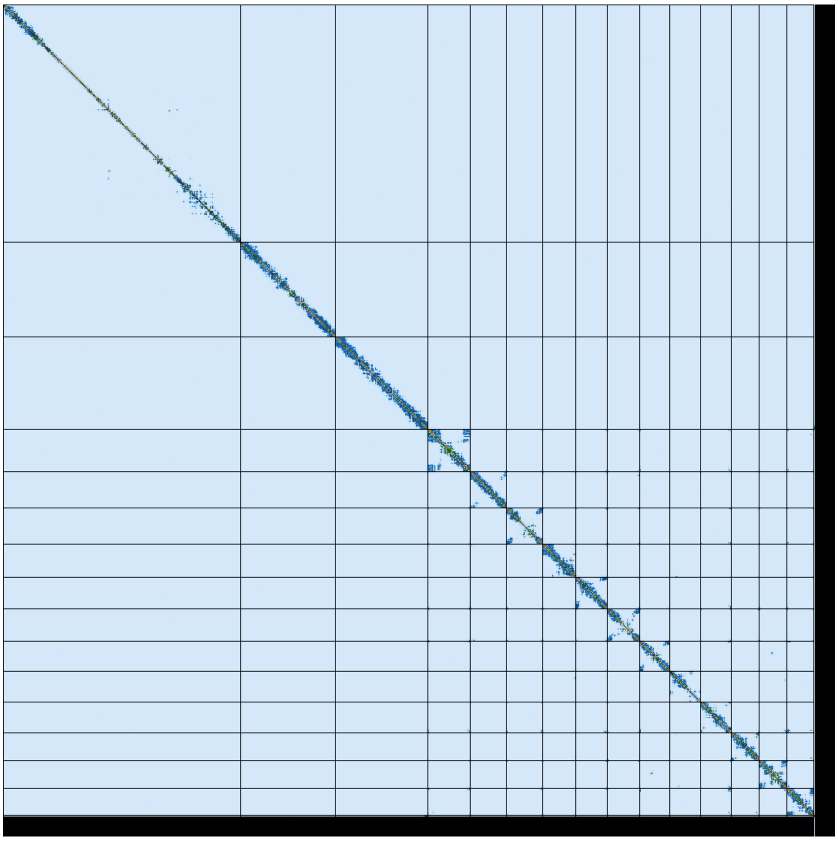
. Interventions/Gb: 256
. Contamination notes: ""
. Other observations: "Numerous haplotypic duplications were removed "

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	447,672,612	433,379,001
GC %	37.55	37.56
Gaps/Gbp	0	170.75
Total gap bp	0	11,500
Scaffolds	219	195
Scaffold N50	15,787,020	47,888,948
Scaffold L50	9	3
Scaffold L90	27	13
Contigs	219	269
Contig N50	15,787,020	9,098,906
Contig L50	9	15
Contig L90	27	47
QV	60.462	60.4431
Kmer compl.	77.9179	76.7507
BUSCO sing.	94.5%	95.3%
BUSCO dupl.	1.2%	0.4%
BUSCO frag.	2.7%	2.7%
BUSCO miss.	1.6%	1.6%

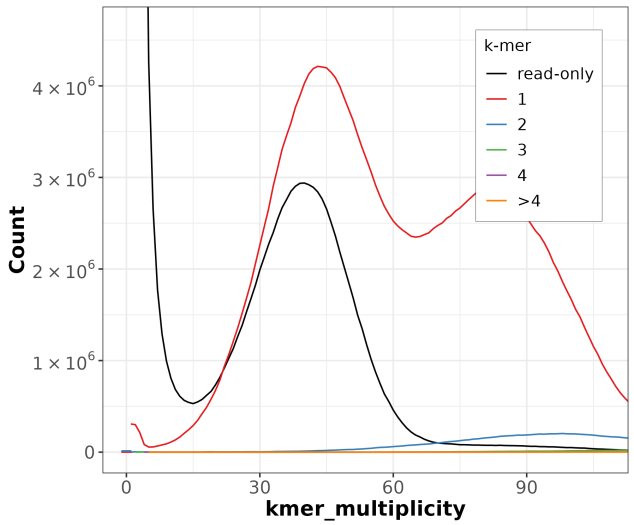
BUSCO 5.4.3 Lineage: eukaryota_odb10 (genomes:70, BUSCOs:255)

HiC contact map of curated assembly

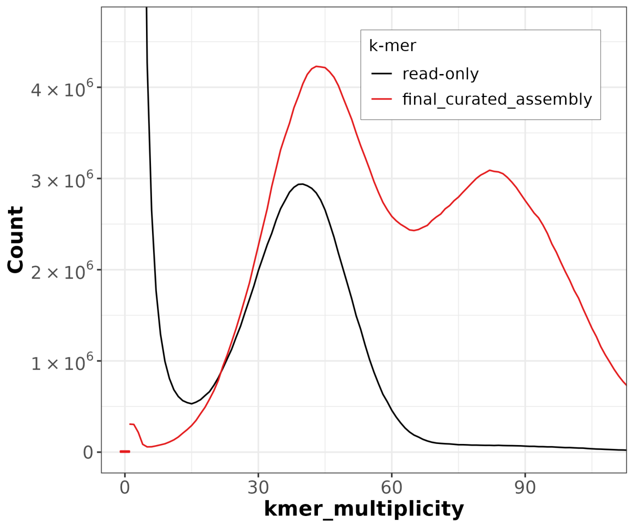


collapsed [LINK]

K-mer spectra of curated assembly

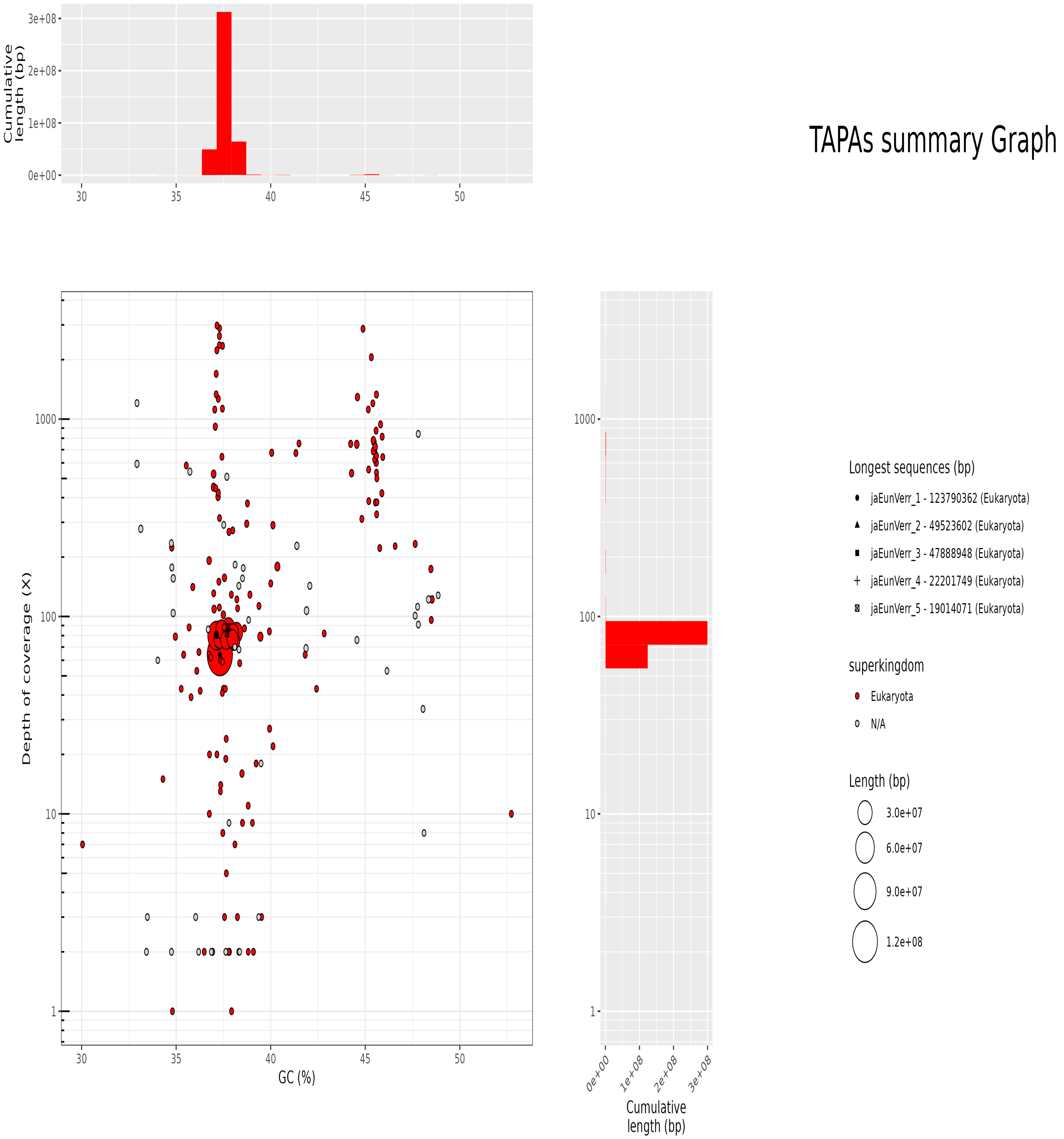


Distribution of k-mer counts per copy numbers found in asm



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

Post-curation contamination screening



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	77	117

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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