ERGA Assembly Report

v24.09.10

Tags: ATLASea[INVALID TAG]

TxID	129788
ToLID	**xbRudPhil6.1**
Species	Ruditapes philippinarum
Class	Bivalvia
Order	Venerida

Genome Traits	Expected	Observed
Haploid size (bp)	1,316,212,599	1,341,463,869
Haploid Number	19 (source: ancestor)	19
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 7.7.Q63

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

. Kmer completeness value is less than 90 for collapsed

Curator notes

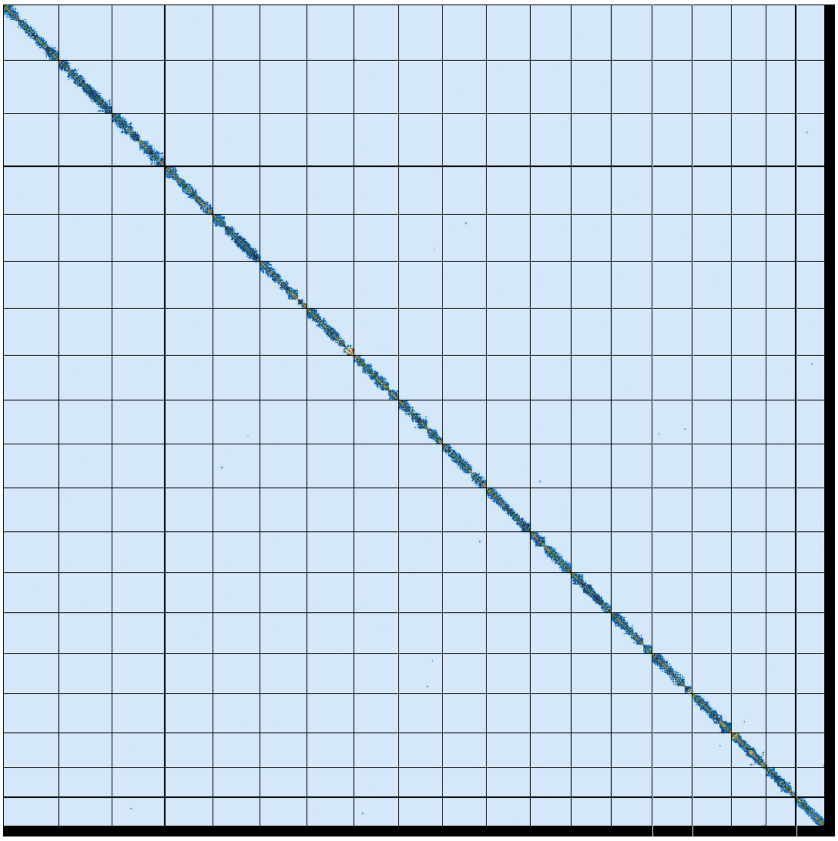
. Interventions/Gb: 20
. Contamination notes: "26 bacterian contigs removed after assembly "
. Other observations: "Large haplotypic duplications removed during manual HiC curation "

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	1,376,166,144	1,341,463,869
GC %	32.44	32.44
Gaps/Gbp	55.23	61.13
Total gap bp	7,600	9,800
Scaffolds	302	286
Scaffold N50	70,681,167	71,441,967
Scaffold L50	9	9
Scaffold L90	18	17
Contigs	378	368
Contig N50	27,049,854	28,350,286
Contig L50	16	15
Contig L90	51	49
QV	63.5054	63.4373
Kmer compl.	61.9844	61.0233
BUSCO sing.	96.1%	97.6%
BUSCO dupl.	1.6%	0.0%
BUSCO frag.	1.2%	1.2%
BUSCO miss.	1.1%	1.2%

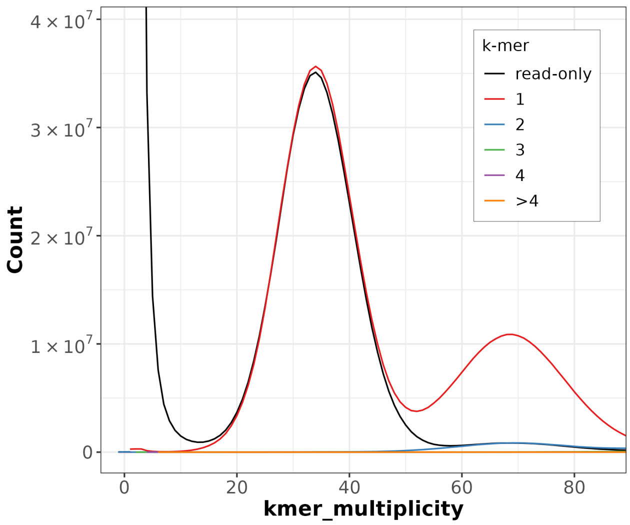
BUSCO 5.4.3 Lineage: eukaryota_odb10 (genomes:70, BUSCOs:255)

HiC contact map of curated assembly

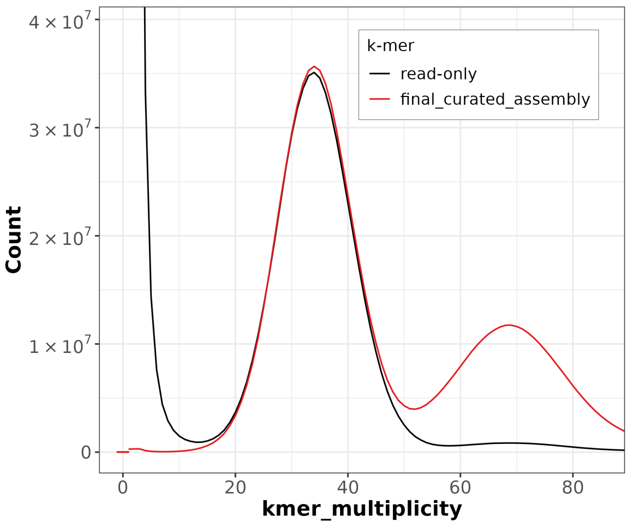


collapsed [LINK]

K-mer spectra of curated assembly

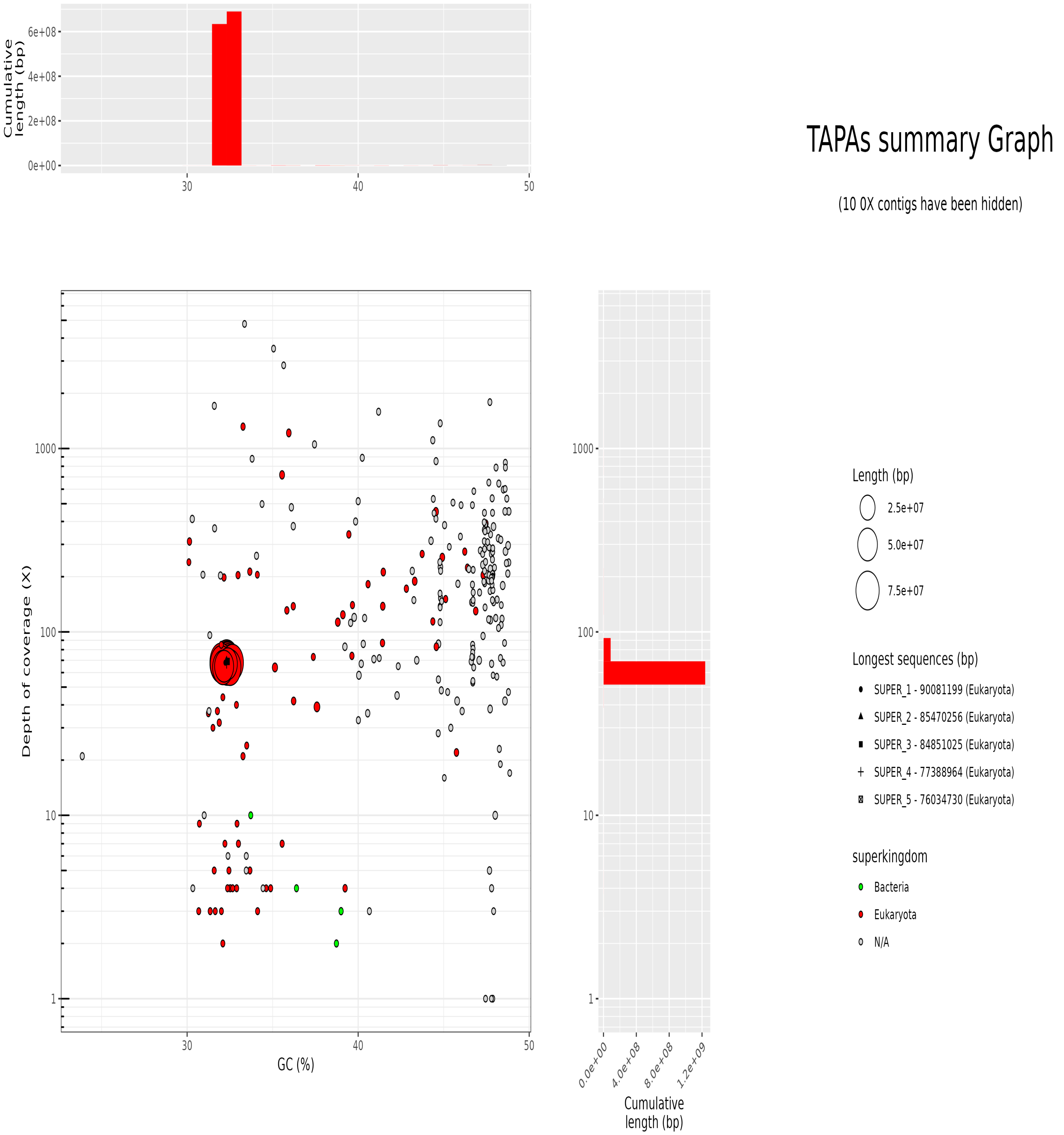


Distribution of k-mer counts per copy numbers found in asm



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	70	31

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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