

ERGA Assembly Report

v24.10.15

Tags: ATLASea[INVALID TAG]

TxID	105859
ToLID	ecAntMedi1
Species	Antedon mediterranea
Class	Crinoidea
Order	Comatulida

Genome Traits	Expected	Observed
Haploid size (bp)	341,210,611	354,510,775
Haploid Number	4 (source: ancestor)	11
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 7.7.Q66

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

Curator notes

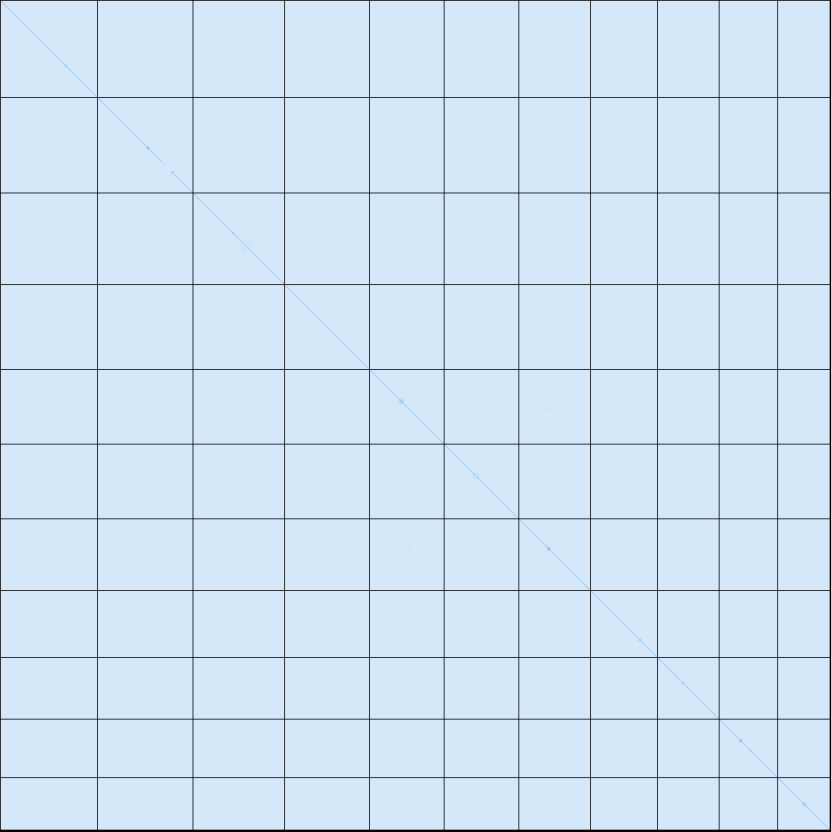
- . Interventions/Gb: 50
- . Contamination notes: "72 bacterian contigs removed after assembly "
- . Other observations: ""

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	358,106,224	354,510,775
GC %	33.56	33.57
Gaps/Gbp	61.43	98.73
Total gap bp	2,200	5,000
Scaffolds	31	19
Scaffold N50	31,301,100	31,901,198
Scaffold L50	5	5
Scaffold L90	11	10
Contigs	53	54
Contig N50	13,845,746	15,123,000
Contig L50	10	9
Contig L90	23	23
QV	57.145	66.2601
Kmer compl.	78.3045	77.8869
BUSCO sing.	100.0%	100.0%
BUSCO dupl.	0.0%	0.0%
BUSCO frag.	0.0%	0.0%
BUSCO miss.	0.0%	0.0%

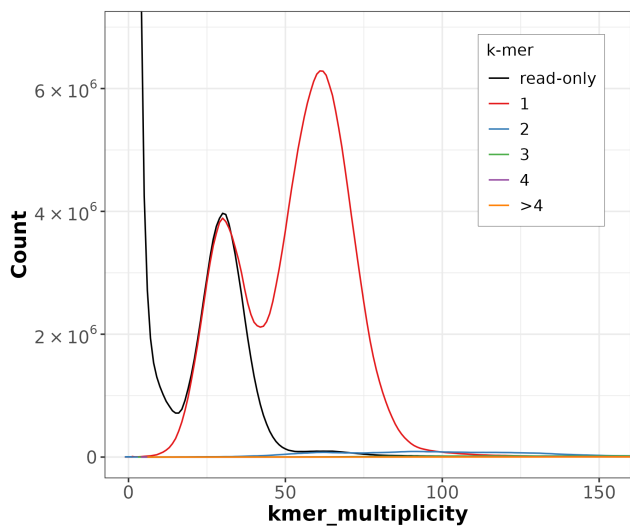
BUSCO: 5.4.3 (euk_genome_met, metaeuk) / Lineage: eukaryota_odb10 (genomes:70, BUSCOs:255)

HiC contact map of curated assembly

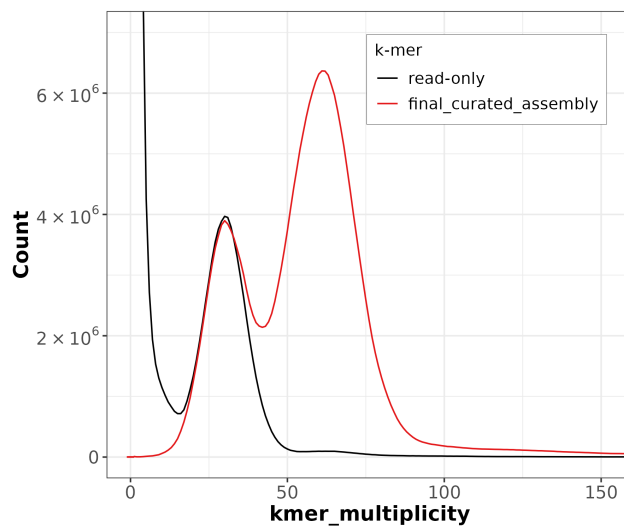


collapsed [\[LINK\]](#)

K-mer spectra of curated assembly

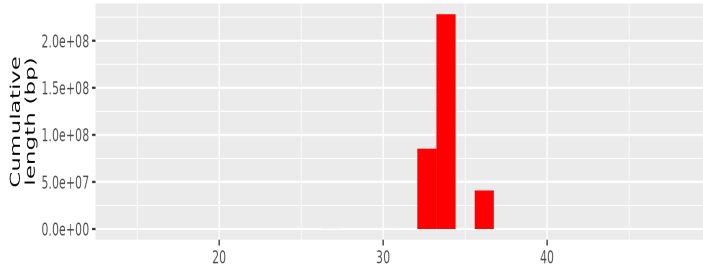


Distribution of k-mer counts per copy numbers found in asm

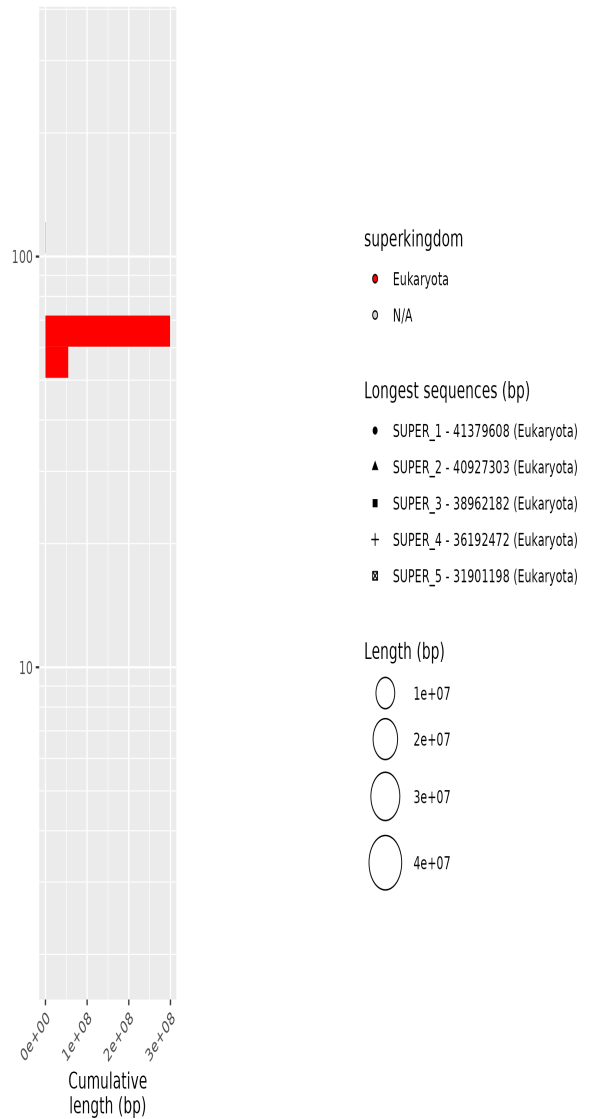
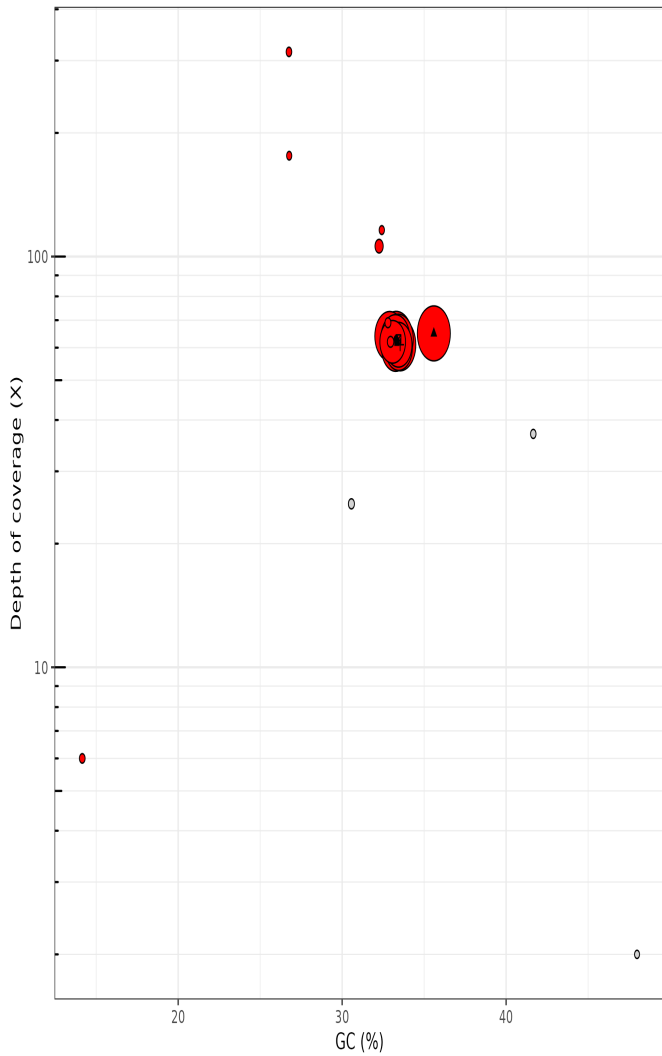


Distribution of k-mer counts coloured by their presence in reads/assemblies

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
Coverage	62	120

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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Date and time: 2024-11-28 09:01:46 CET