

ERGA Assembly Report

v24.04.03_beta

Tags: ATLASea[INVALID TAG]

TxID	12959
ToLID	odAxiPoly
Species	Axinella polypoides
Class	Demospongiae
Order	Axinellida

Genome Traits	Expected	Observed
Haploid size (bp)	134,596,807	137,764,085
Haploid Number	5 (source: ancestor)	24
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 5.6.Q55

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
- . More than 1000 gaps/Gbp for collapsed

Curator notes

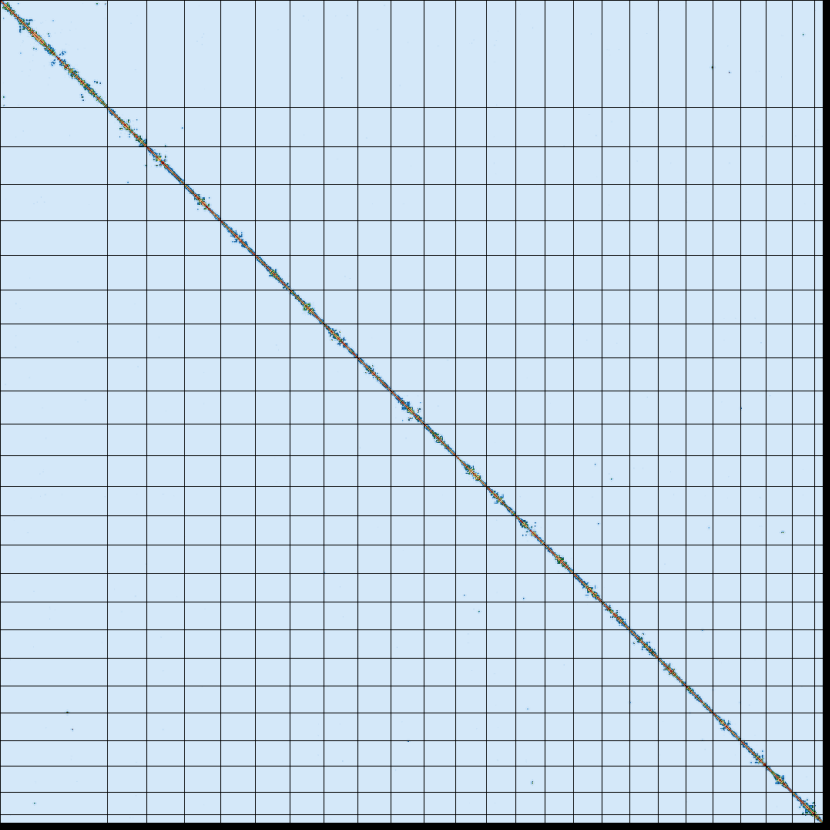
- . Interventions/Gb: None
- . Contamination notes: "Lot of contaminants were removed (bacteria, archea, amphipoda)"
- . Other observations: "Some hplotigs were removed"

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	151,026,055	137,764,085
GC %	44.16	44.21
Gaps/Gbp	2,026.14	2,693.01
Total gap bp	30,600	48,000
Scaffolds	174	73
Scaffold N50	5,723,994	5,432,210
Scaffold L50	11	10
Scaffold L90	23	22
Contigs	480	444
Contig N50	753,704	606,803
Contig L50	46	62
Contig L90	206	239
QV	54.8181	55.5584
Kmer compl.	53.4643	49.4857
BUSCO sing.	89.4%	90.6%
BUSCO dupl.	2.4%	1.2%
BUSCO frag.	3.9%	3.9%
BUSCO miss.	4.3%	4.3%

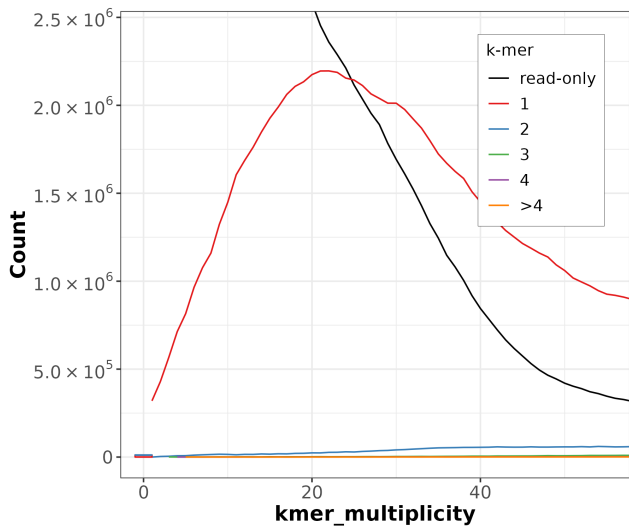
BUSCO 5.4.3 Lineage: eukaryota_odb10 (genomes:70, BUSCOs:255)

HiC contact map of curated assembly

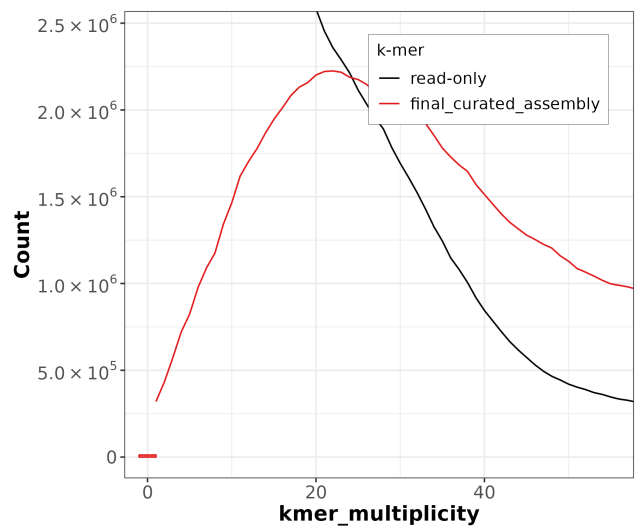


collapsed [\[LINK\]](#)

K-mer spectra of curated assembly

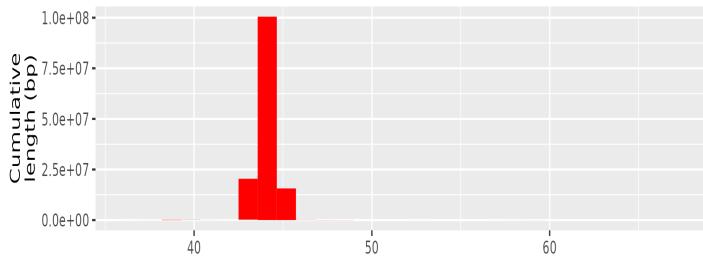


Distribution of k-mer counts per copy numbers found in asm

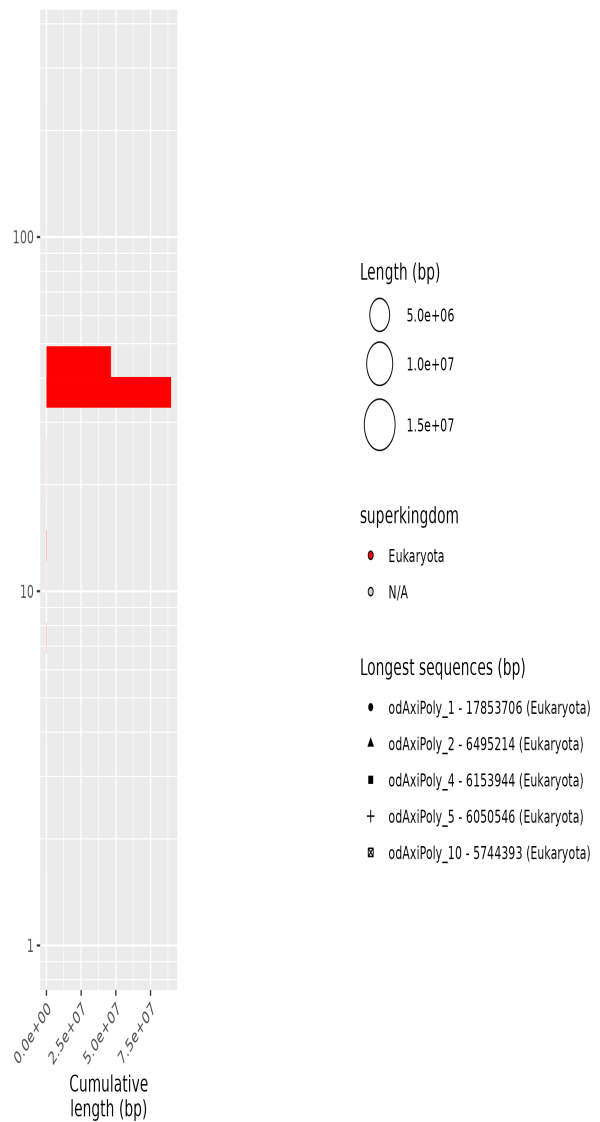
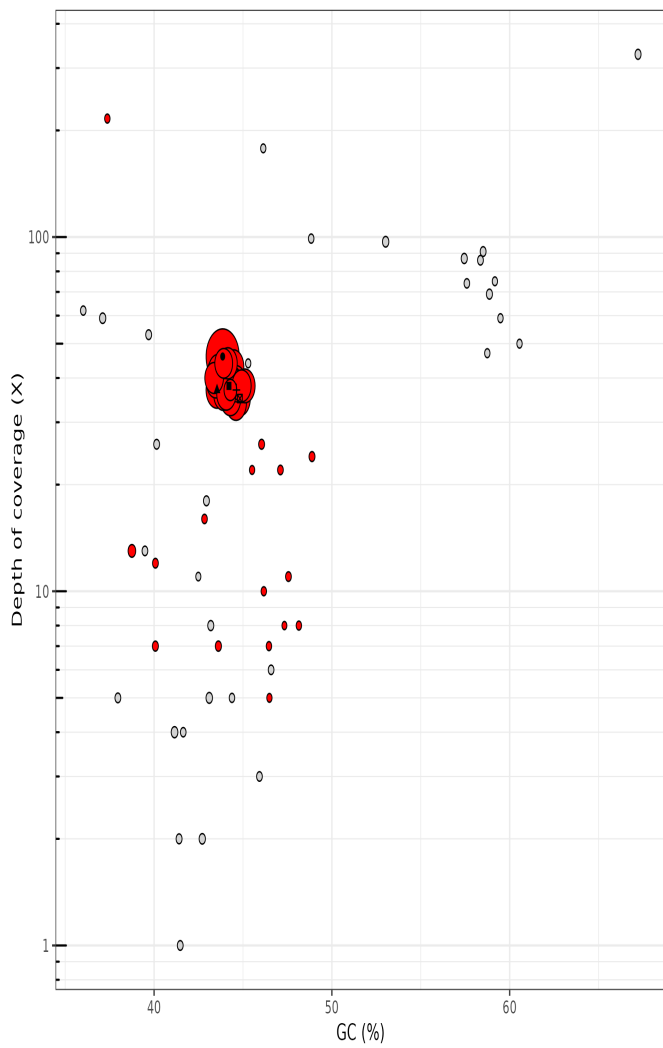


Distribution of k-mer counts coloured by their presence in reads/assemblies

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	95	390

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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