ERGA Assembly Report

v24.09.10

Tags: ATLASea[INVALID TAG]

TxID	256108
ToLID	**xpChiOliv1.4**
Species	Chiton olivaceus
Class	Polyplacophora
Order	Chitonida

Genome Traits	Expected	Observed
Haploid size (bp)	1,333,525,716	1,430,799,647
Haploid Number	9 (source: ancestor)	10
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 7.8.Q65

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
. Not 90% of assembly in chromosomes for collapsed

Curator notes

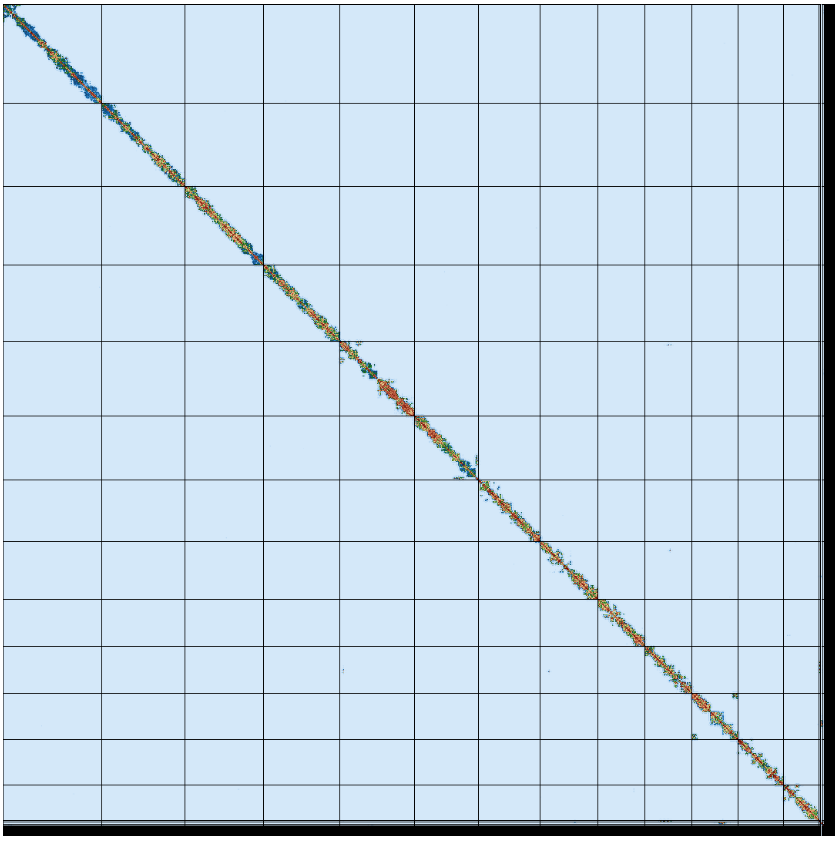
. Interventions/Gb: 71
. Contamination notes: ""
. Other observations: "Low HiC reads coverage "

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	1,540,050,536	1,430,799,647
GC %	41.63	41.64
Gaps/Gbp	126.62	146.77
Total gap bp	19,500	25,300
Scaffolds	129	114
Scaffold N50	126,148,331	109,787,193
Scaffold L50	6	6
Scaffold L90	12	12
Contigs	324	324
Contig N50	11,619,751	11,619,751
Contig L50	39	36
Contig L90	131	125
QV	65.4522	65.3429
Kmer compl.	63.7984	60.473
BUSCO sing.	91.8%	98.4%
BUSCO dupl.	7.1%	0.0%
BUSCO frag.	0.0%	0.0%
BUSCO miss.	1.1%	1.6%

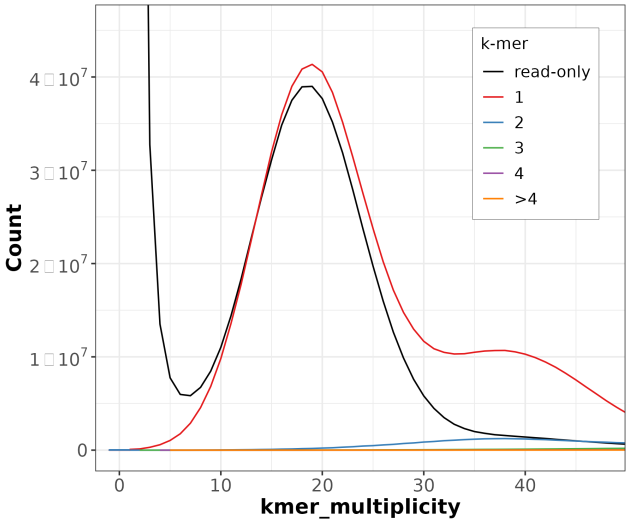
BUSCO 5.4.3 Lineage: eukaryota_odb10 (genomes:70, BUSCOs:255)

HiC contact map of curated assembly

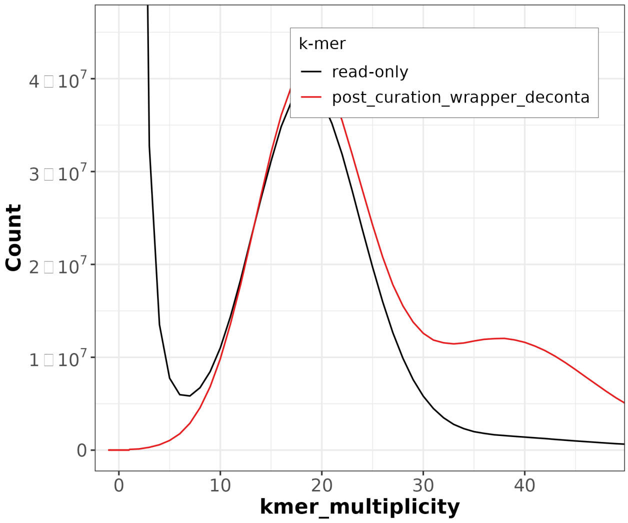


collapsed [LINK]

K-mer spectra of curated assembly

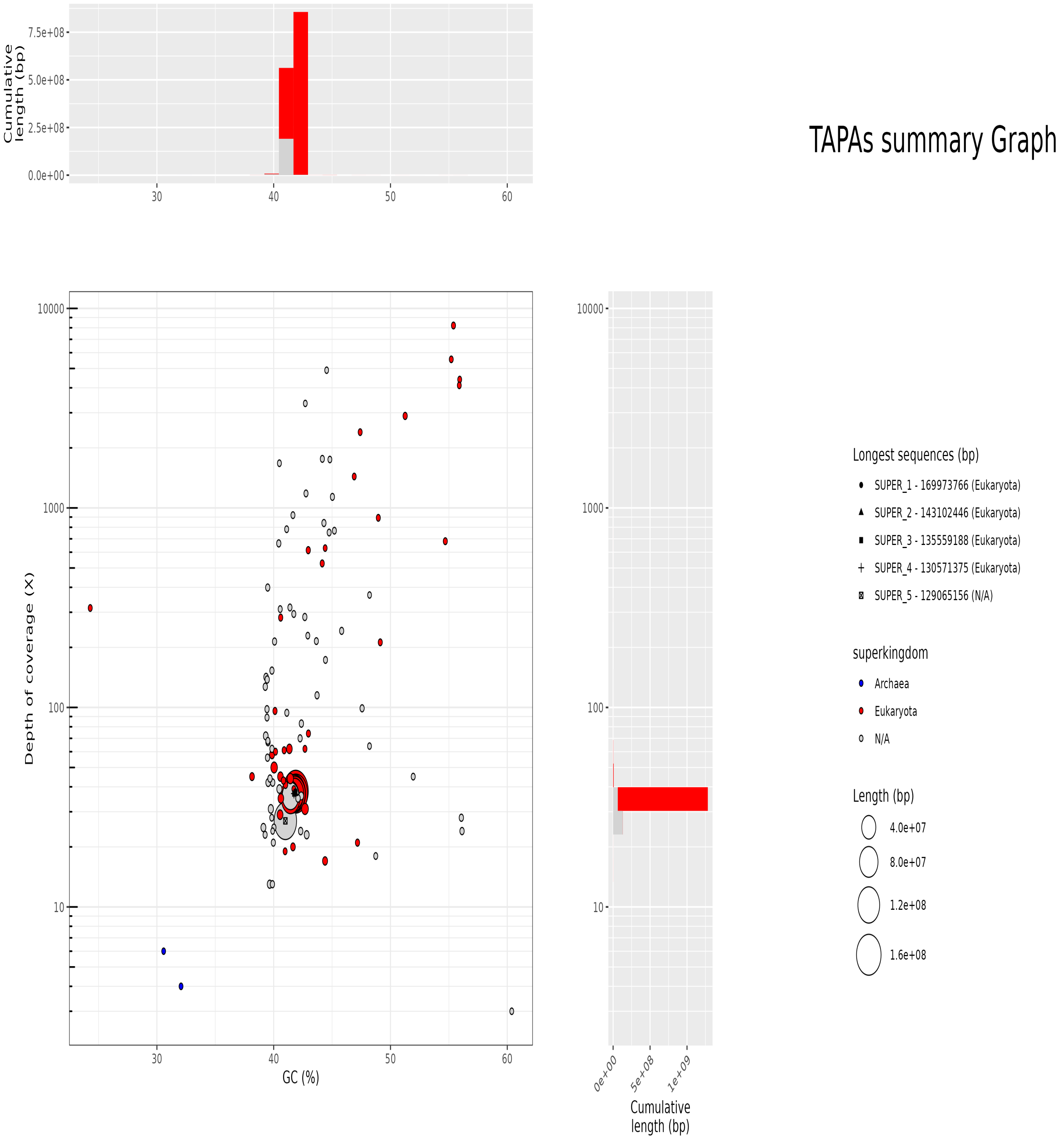


Distribution of k-mer counts per copy numbers found in asm



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	36	23

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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