

ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	2057147
ToLID	kaBotIsra2
Species	Botrylloides israeliense
Class	Ascidacea
Order	Stolidobranchia

Genome Traits	Expected	Observed
Haploid size (bp)	335,130,659	376,993,127
Haploid Number	16 (source: ancestor)	16
Ploidy	2 (source: ancestor)	2
Sample Sex	Hermaphrodite	unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for hap1: 7.7.Q52

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

- . Observed sex is different from Sample sex
- . Kmer completeness value is less than 90 for hap1

Curator notes

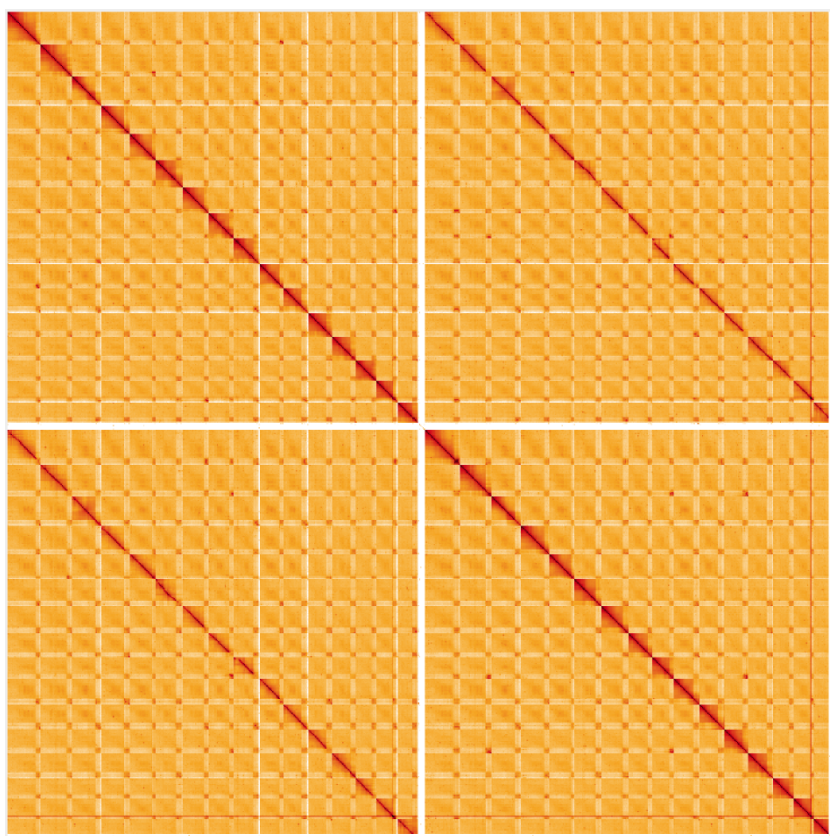
- . Interventions/Gb: None
- . Contamination notes: "None"
- . Other observations: "Yahs failed to make any meaningful joins, so scaffolding was done manually after purge-dups. 60 sequences were removed that fcs-gx tagged as proteobacteria totalling 2Mb."

Quality metrics table

Metrics	Pre-curation hap1	Curated hap1
Total bp	376,304,086	376,993,127
GC %	39.6	39.53
Gaps/Gbp	0	18.57
Total gap bp	0	700
Scaffolds	242	168
Scaffold N50	22,502,874	22,922,149
Scaffold L50	8	8
Scaffold L90	16	15
Contigs	242	175
Contig N50	22,502,874	22,486,628
Contig L50	8	8
Contig L90	16	16
QV	58.6778	52.0836
Kmer compl.	69.06	68.4764
BUSCO sing.	92.7%	92.4%
BUSCO dupl.	3.6%	4.0%
BUSCO frag.	1.5%	1.5%
BUSCO miss.	2.2%	2.1%

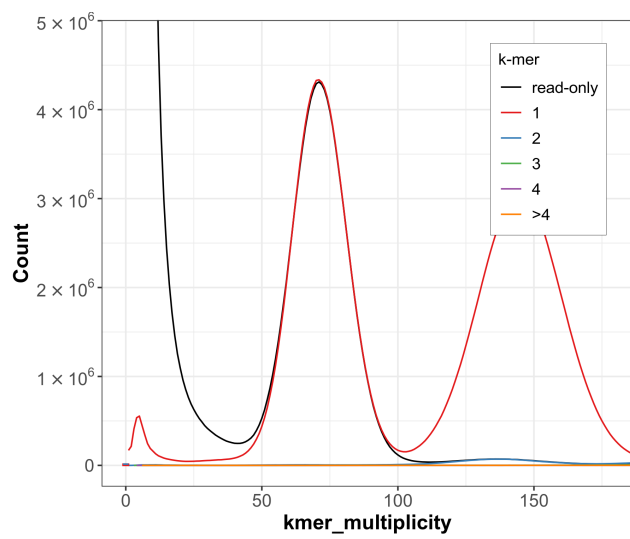
BUSCO: 6.0.0 (euk_genome_min, miniprot) / Lineage: metazoa_odb12 (genomes:206, BUSCOs:672)

HiC contact map of curated assembly



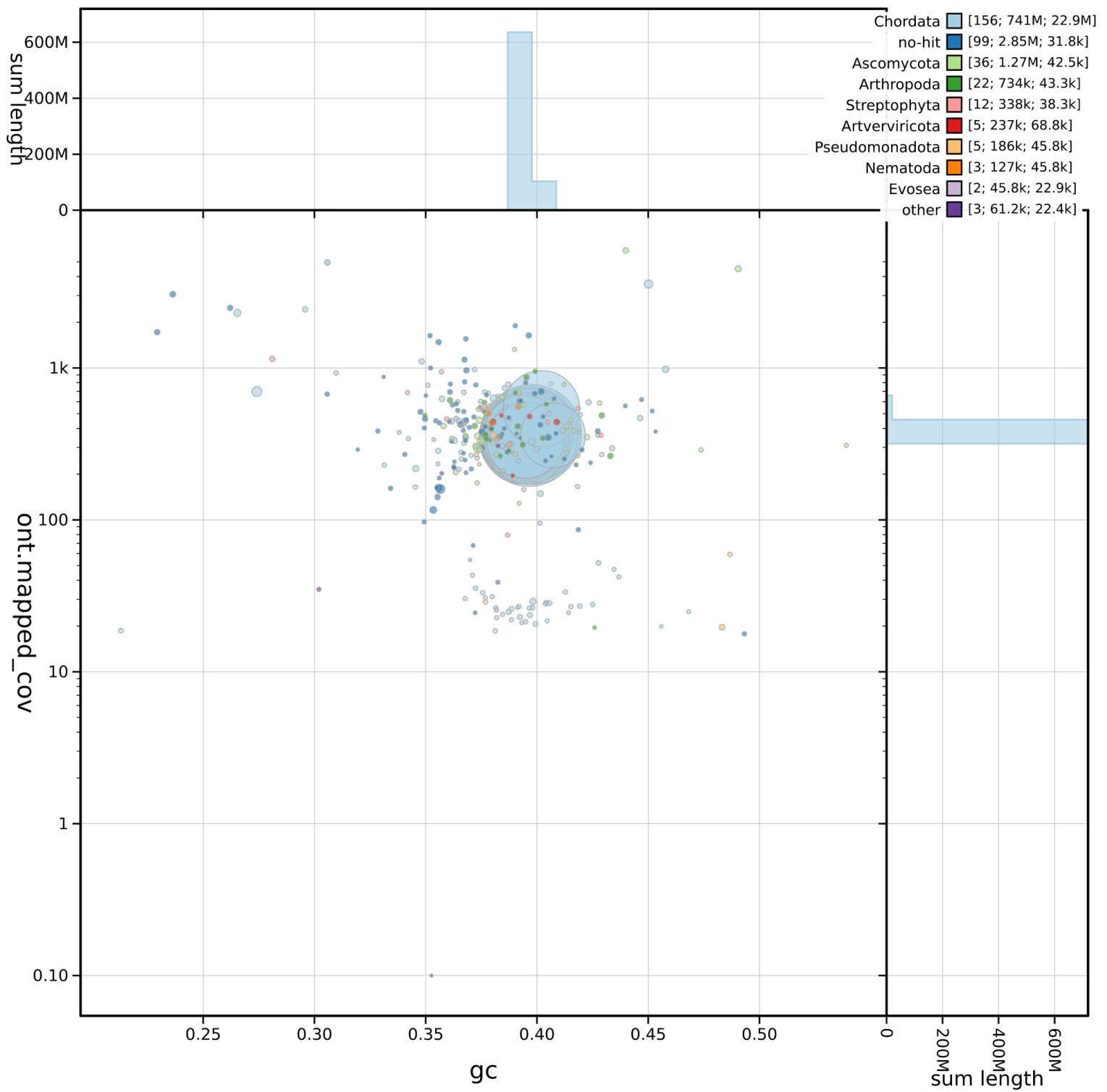
hap1 [\[LINK\]](#)

K-mer spectra of curated assembly



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

Post-curation contamination screening



hap1. 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	ONT	HiC
Coverage	292	71

Assembly pipeline

- **HiFiasm**
 - |_ *ver*: 0.25.0
 - |_ *key param*: --h1
 - |_ *key param*: --h2
 - |_ *key param*: -l3
 - |_ *key param*: --ont
- **purge-dups**
 - |_ *ver*: 1.2.6
 - |_ *key param*: NA
- **fcs-gx**
 - |_ *ver*: 0.5.4
 - |_ *key param*: NA

Curation pipeline

- **PretextView**
 - |_ *ver*: 1.0
 - |_ *key param*: NA

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Date and time: 2026-01-16 14:32:08 CET