

ERGA Assembly Report

v24.09.10

Tags: ERGA-BGE

TxID	3023605
ToLID	icCarBano1
Species	Carabus banonii
Class	Insecta
Order	Coleoptera

Genome Traits	Expected	Observed
Haploid size (bp)	71,013,296	208,388,352
Haploid Number	14 (source: ancestor)	18
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 6.7.Q57

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

- . Observed Haploid size (bp) has >20% difference with Expected
- . Observed Haploid Number is different from Expected
- . Kmer completeness value is less than 90 for collapsed

Curator notes

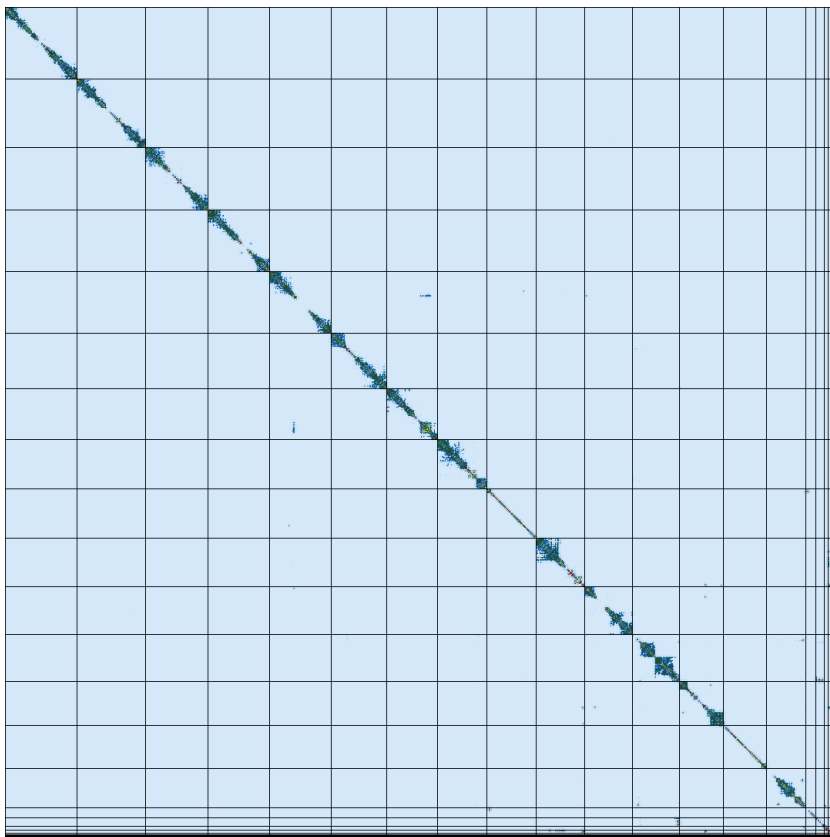
- . Interventions/Gb: 215
- . Contamination notes: "None "
- . Other observations: "Presence of large region (telomeric?) repeated at the ends of the scaffolds "

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	208,441,780	208,388,352
GC %	35.43	35.43
Gaps/Gbp	62.37	278.33
Total gap bp	1,300	10,400
Scaffolds	83	46
Scaffold N50	12,327,626	12,732,162
Scaffold L50	8	7
Scaffold L90	15	14
Contigs	96	104
Contig N50	7,793,566	7,502,750
Contig L50	12	12
Contig L90	27	28
QV	40.112	57.2734
Kmer compl.	80.0782	81.1154
BUSCO sing.	97.3%	96.9%
BUSCO dupl.	2.4%	2.7%
BUSCO frag.	0.4%	0.4%
BUSCO miss.	0.1%	0.0%

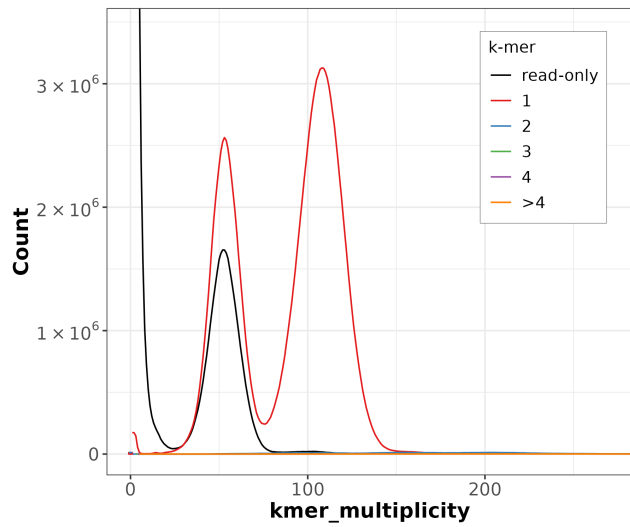
BUSCO 5.4.3 Lineage: eukaryota_odb10 (genomes:70, BUSCOs:255)

HiC contact map of curated assembly

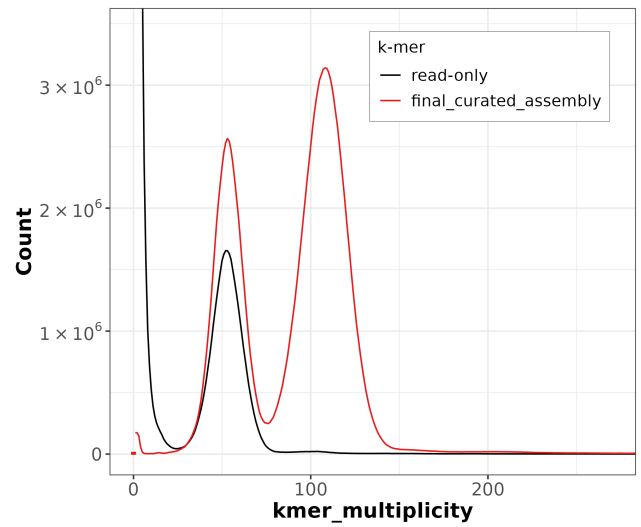


collapsed [\[LINK\]](#)

K-mer spectra of curated assembly

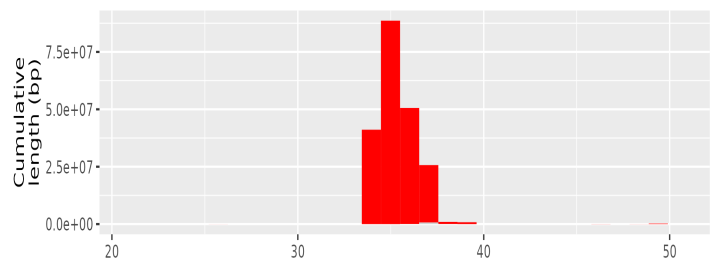


Distribution of k-mer counts per copy numbers found in asm

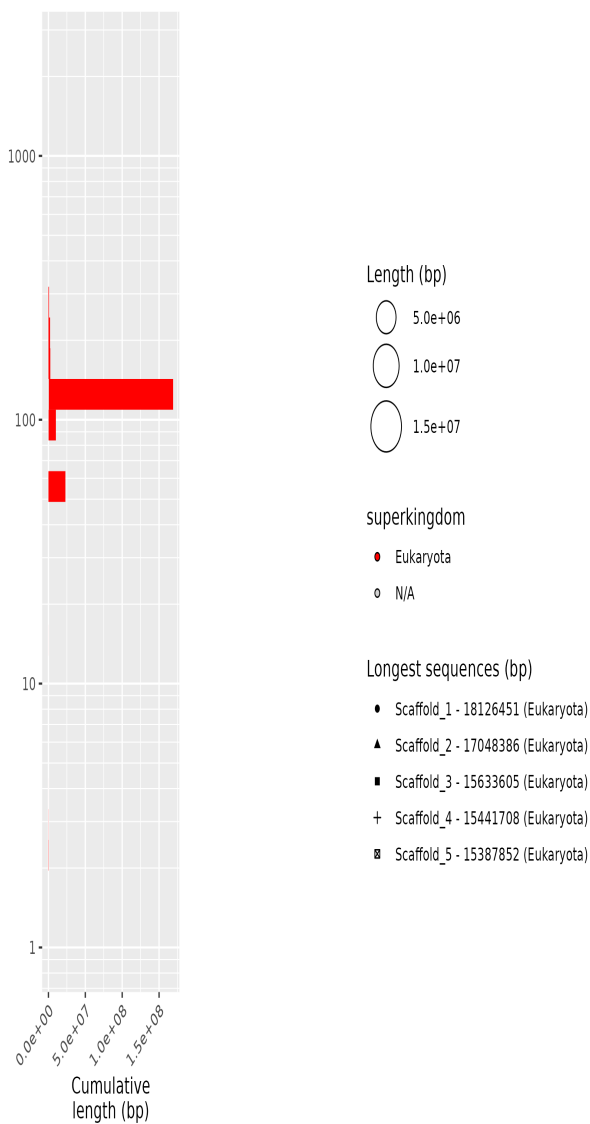
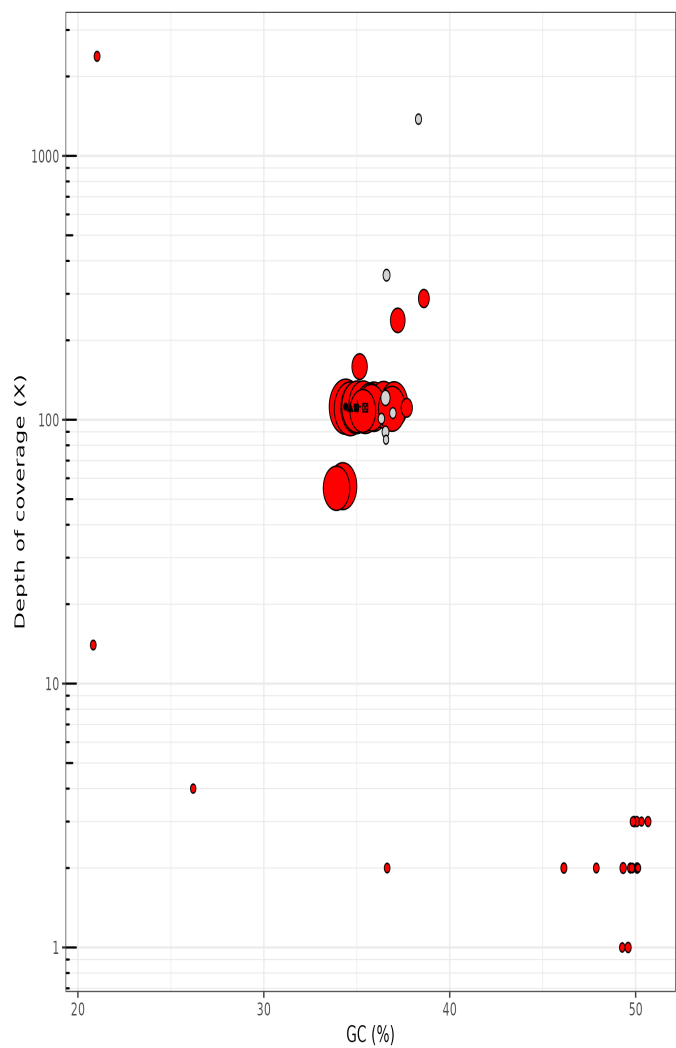


Distribution of k-mer counts coloured by their presence in reads/assemblies

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	30	50

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: 2024-10-05 01:34:16 CEST