

ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	1391732
ToLID	qcEupCave1
Species	Eupolybothrus cavernicolus
Class	Chilopoda
Order	Lithobiomorpha

Genome Traits	Expected	Observed
Haploid size (bp)	1,215,585,632	3,728,157,764
Haploid Number	20 (source: ancestor)	19
Ploidy	2 (source: ancestor)	2
Sample Sex	NA	NA

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 7.8.Q52

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

Curator notes

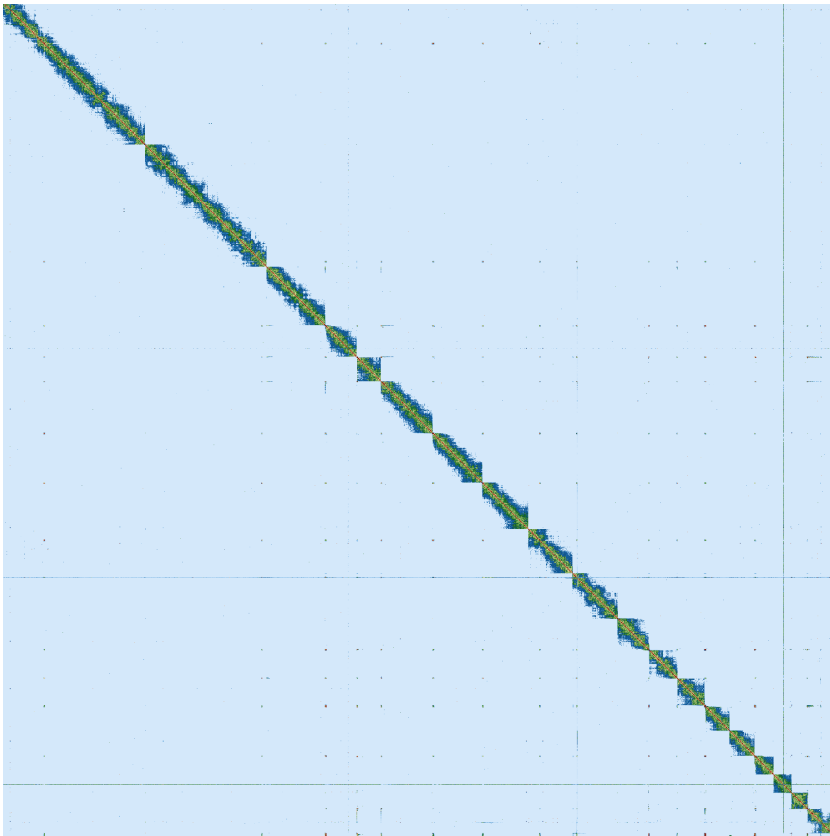
- . Interventions/Gb: 2
- . Contamination notes: "Large number of contaminants ~3,000 contigs were removed by fcs-gx"
- . Other observations: "Very few changes needed to be made during curation"

Quality metrics table

Metrics	Pre-curation pri	Curated pri
Total bp	3,728,156,764	3,728,157,764
GC %	41.31	41.31
Gaps/Gbp	75.91	77.25
Total gap bp	56,600	57,600
Scaffolds	48	43
Scaffold N50	229,869,092	221,077,155
Scaffold L50	5	5
Scaffold L90	15	15
Contigs	331	331
Contig N50	25,604,000	25,604,000
Contig L50	45	45
Contig L90	154	154
QV		52.3687
Kmer compl.	95.6566	95.1397
BUSCO sing.	94.7%	94.8%
BUSCO dupl.	1.1%	1.1%
BUSCO frag.	1.1%	1.1%
BUSCO miss.	3.0%	2.9%

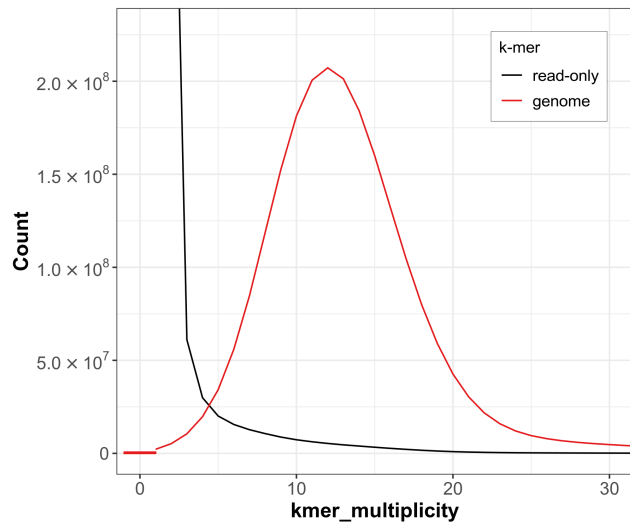
BUSCO: 6.0.0 (euk_genome_min, miniprot) / Lineage: arthropoda_odb12 (genomes:76, BUSCOs:1667)

HiC contact map of curated assembly

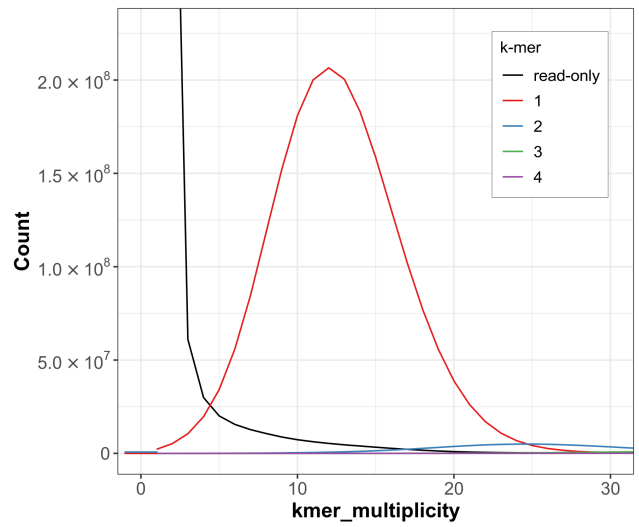


pri [\[LINK\]](#)

K-mer spectra of curated assembly

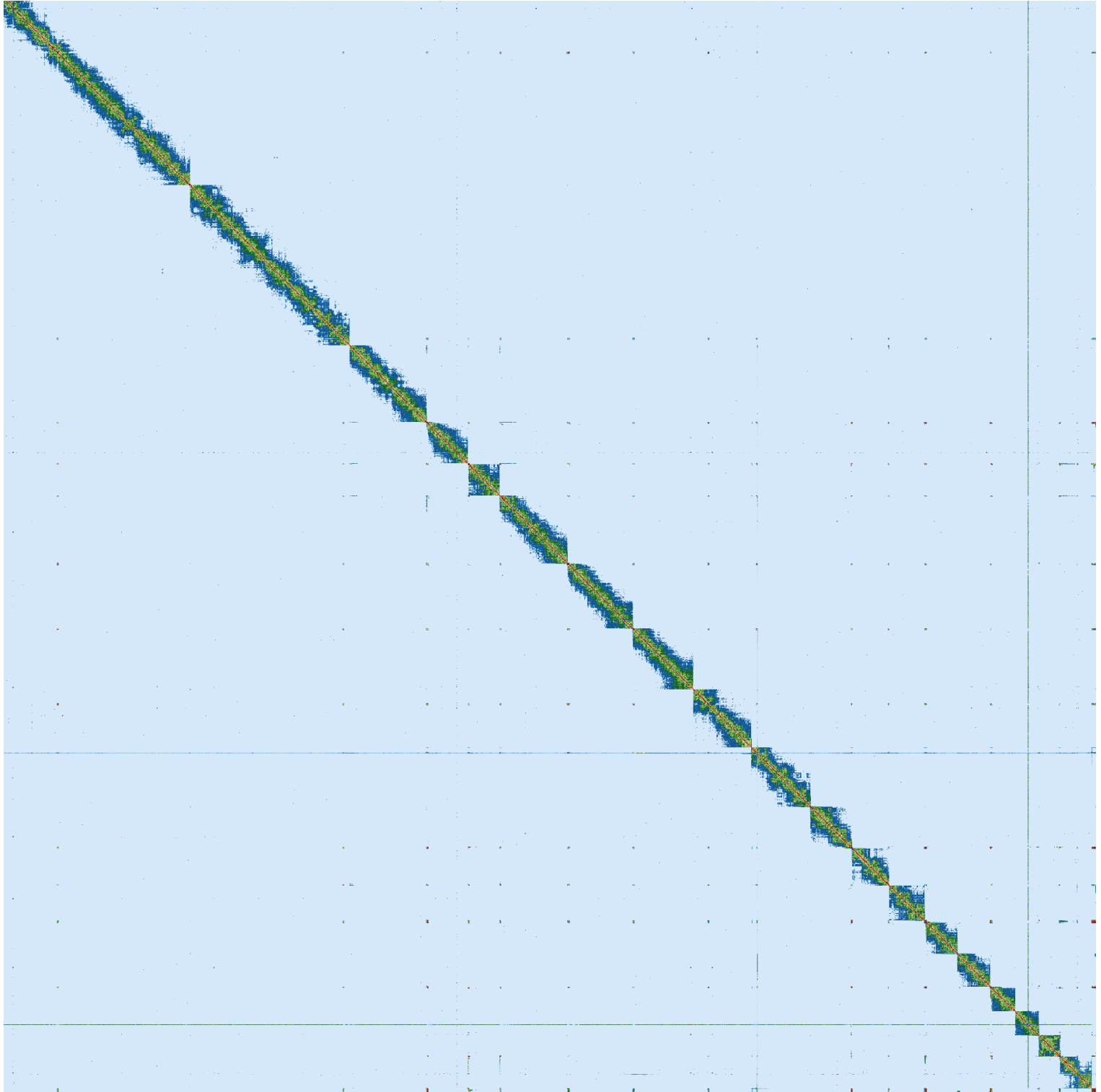


Distribution of k-mer counts coloured by their presence in reads/assemblies



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

Post-curation contamination screening



pri. 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	NA	NA

Assembly pipeline

- **HiFiasm**
 - |_ *ver*: 0.25.0
 - |_ *key param*: NA
- **purge-dups**
 - |_ *ver*: 1.2.6
 - |_ *key param*: NA
- **yahs**
 - |_ *ver*: 1.1a
 - |_ *key param*: NA
- **fcs-gx**
 - |_ *ver*: 0.5.0
 - |_ *key param*: NA

Curation pipeline

- **PretextView**
 - |_ *ver*: 1.0.0
 - |_ *key param*: NA

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