

ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	1926191
ToLID	qqLacDent6
Species	<i>Lacinius dentiger</i>
Class	Arachnida
Order	Opiliones

Genome Traits	Expected	Observed
Haploid size (bp)	573,562,869	682,711,259
Haploid Number	8 (source: ancestor)	14
Ploidy	2 (source: ancestor)	2
Sample Sex	male	unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 6.7.Q57

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

- . Observed Haploid Number is different from Expected
- . Observed sex is different from Sample sex
- . Kmer completeness value is less than 90 for pri
- . Not 90% of assembly in chromosomes for pri

Curator notes

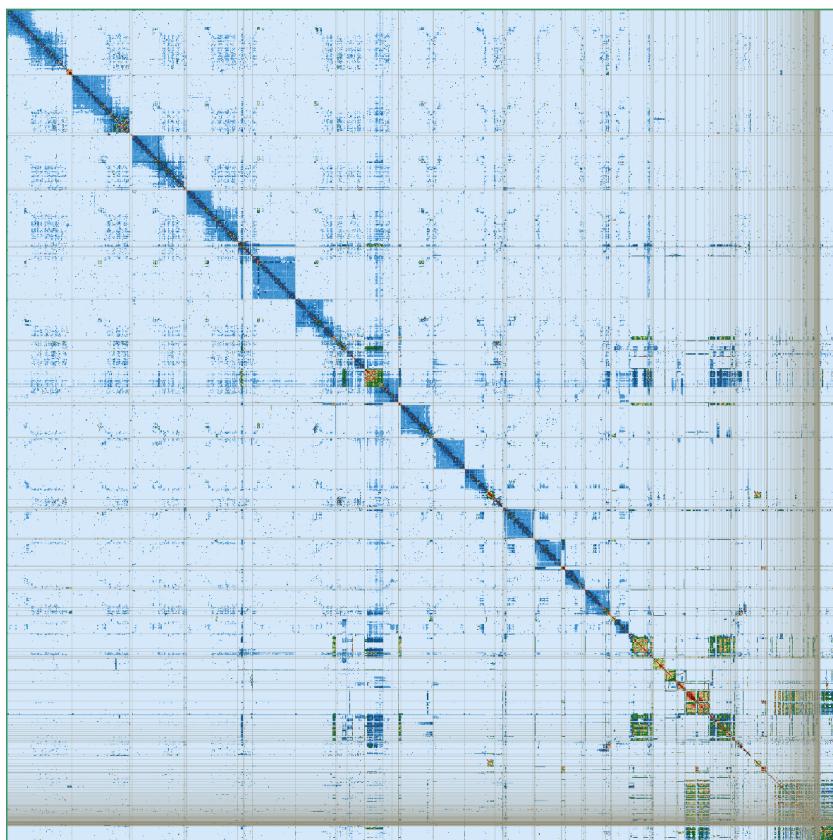
- . Interventions/Gb: None
- . Contamination notes: ""
- . Other observations: "Very difficult to curate with a large number of repetitive regions that could not be placed"

Quality metrics table

Metrics	Pre-curation pri	Curated pri
Total bp	688,669,353	682,711,259
GC %	35.93	35.92
Gaps/Gbp	363.02	382.3
Total gap bp	50,000	52,200
Scaffolds	527	514
Scaffold N50	22,203,647	31,462,319
Scaffold L50	10	7
Scaffold L90	54	43
Contigs	777	775
Contig N50	5,128,000	5,001,931
Contig L50	26	26
Contig L90	183	182
QV	57.2281	57.2084
Kmer compl.	83.5628	83.2873
BUSCO sing.	96.9%	97.0%
BUSCO dupl.	0.9%	0.8%
BUSCO frag.	0.9%	0.9%
BUSCO miss.	1.3%	1.3%

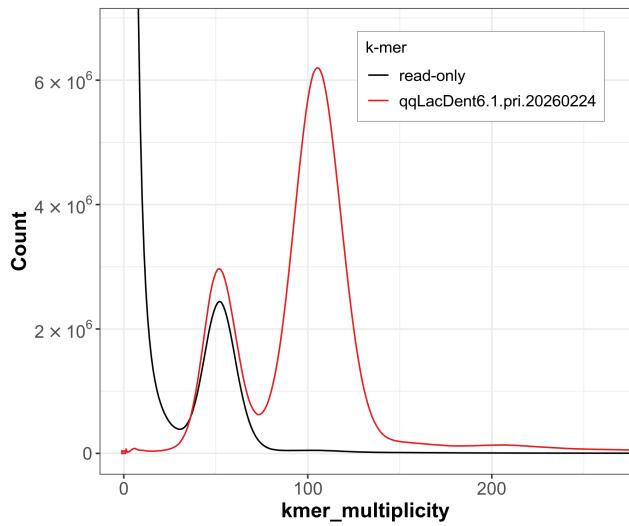
BUSCO: 6.0.0 (euk_genome_min, miniprot) / Lineage: arthropoda_odb12 (genomes:76, BUSCOs:1667)

HiC contact map of curated assembly

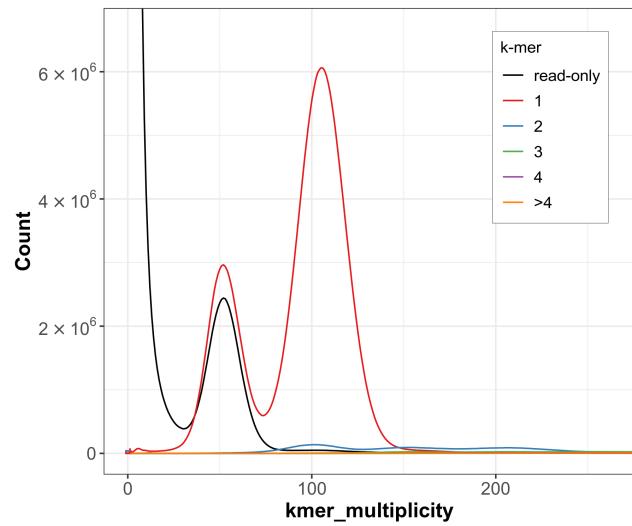


pri [LINK]

K-mer spectra of curated assembly

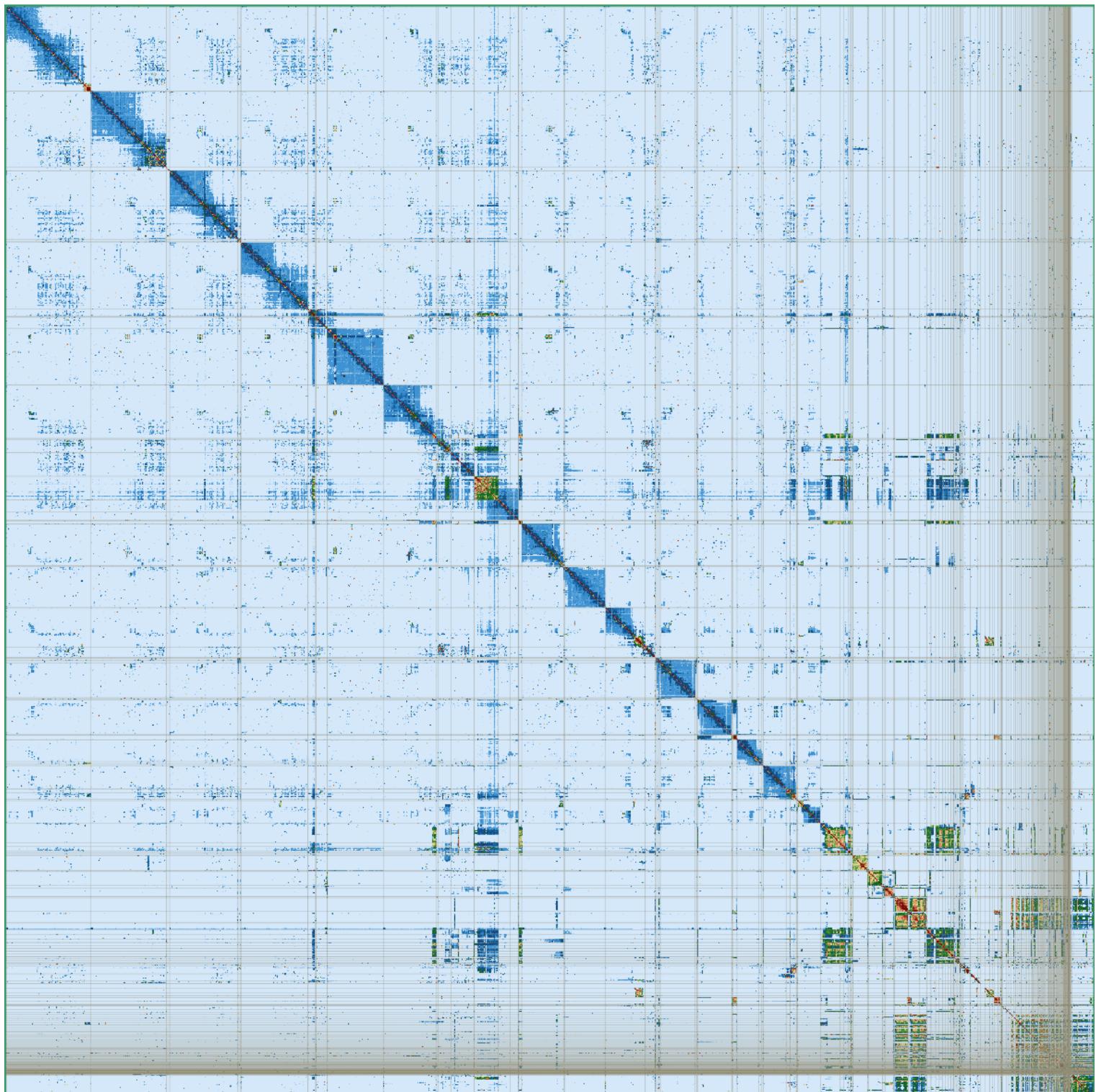


Distribution of k-mer counts coloured by their presence in reads/assemblies



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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