

ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	441337
ToLID	iqDolAran1
Species	Dolichopoda araneiformis
Class	Insecta
Order	Orthoptera

Genome Traits	Expected	Observed
Haploid size (bp)	1,722,763,267	1,736,837,936
Haploid Number	28 (source: ancestor)	12
Ploidy	2 (source: ancestor)	4
Sample Sex	X0	unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 7.8.Q63

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

- . Observed Haploid Number is different from Expected
- . Observed Ploidy is different from Expected
- . Observed sex is different from Sample sex

Curator notes

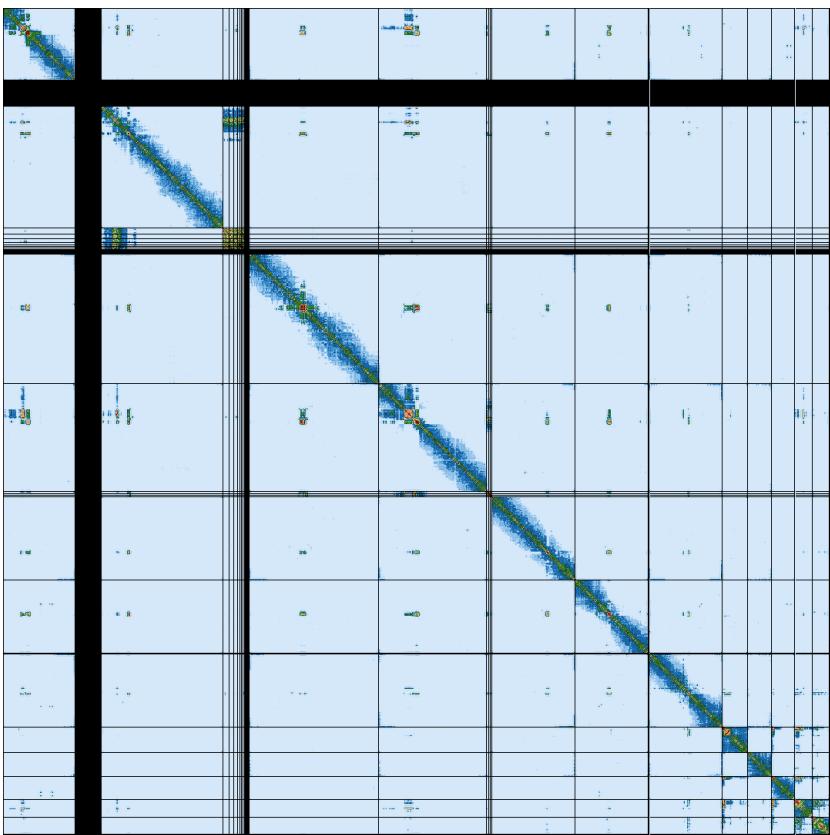
- . Interventions/Gb: 10
- . Contamination notes: "One contaminant (Spriochaetota -- 1.33 Mb) removed"
- . Other observations: "Curation made 2 cuts in contigs, 2 breaks at gaps and 13 joins"

Quality metrics table

Metrics	Pre-curation pri	Curated pri
Total bp	1,743,793,236	1,736,837,936
GC %	36.44	36.43
Gaps/Gbp	2.29	8.64
Total gap bp	800	3,000
Scaffolds	586	573
Scaffold N50	96,336,705	173,203,730
Scaffold L50	5	4
Scaffold L90	18	12
Contigs	590	588
Contig N50	84,096,277	84,096,277
Contig L50	7	7
Contig L90	22	22
QV	63.3013	63.3319
Kmer compl.	92.3873	92.2663
BUSCO sing.	98.2%	98.0%
BUSCO dupl.	1.3%	1.3%
BUSCO frag.	0.2%	0.4%
BUSCO miss.	0.3%	0.3%

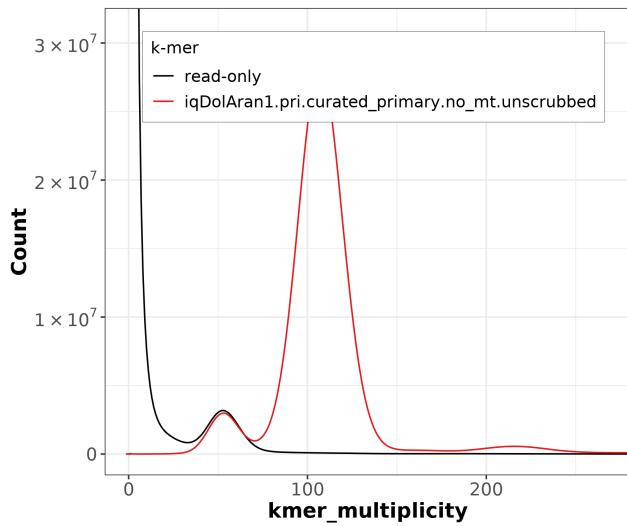
BUSCO: 5.5.0 (euk_genome_met, metaeuk) / Lineage: insecta_odb10 (genomes:75, BUSCOs:1367)

HiC contact map of curated assembly

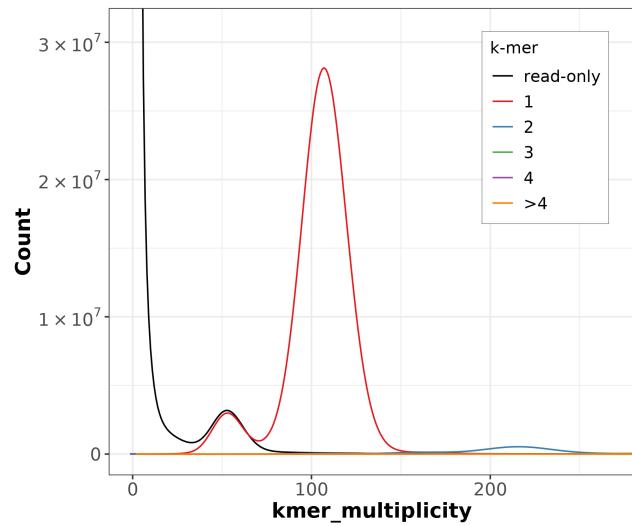


pri [LINK]

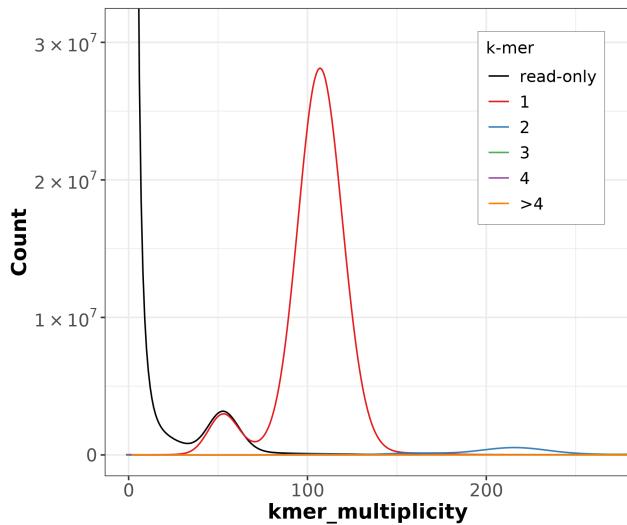
K-mer spectra of curated assembly



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

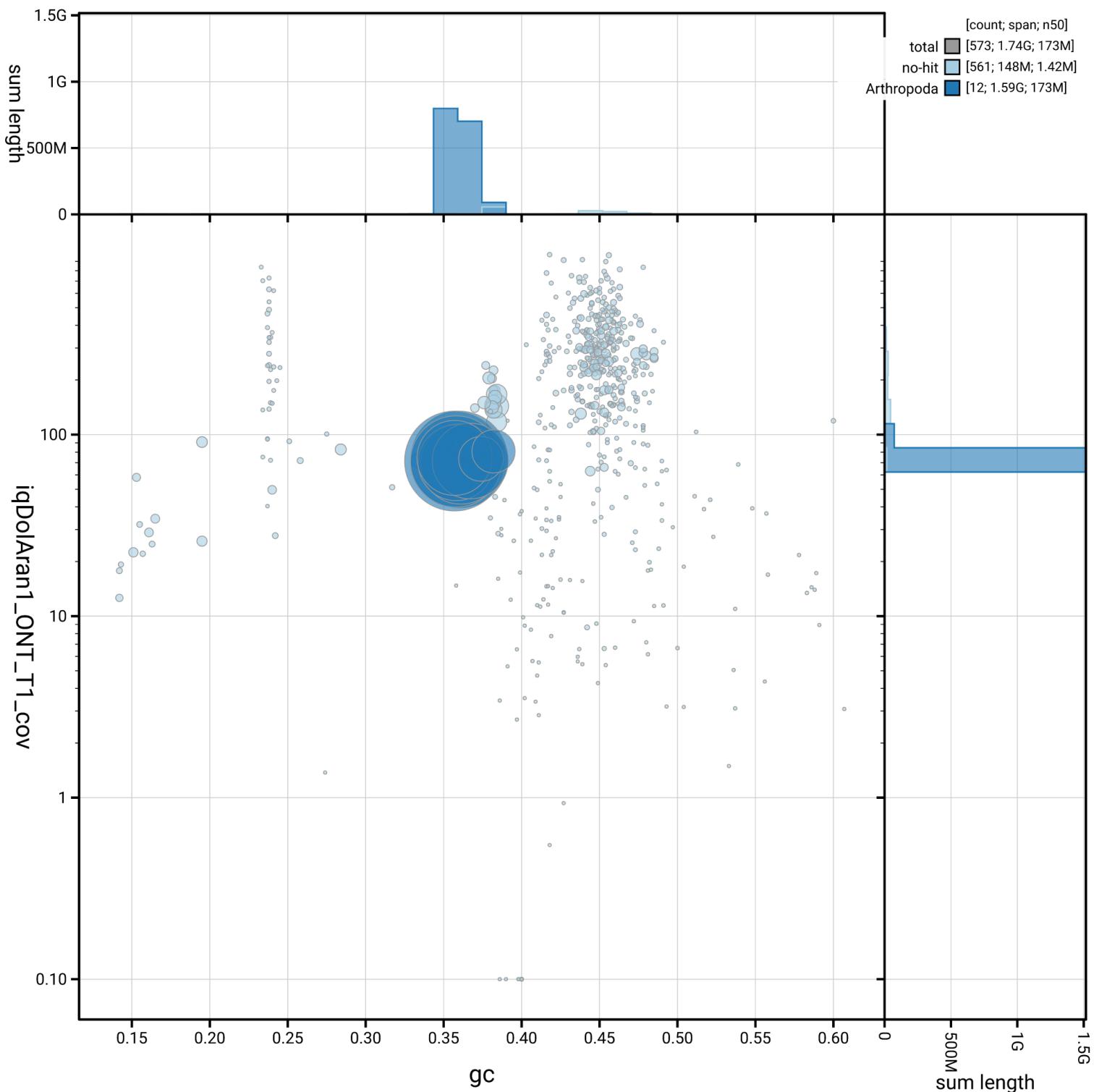


Distribution of k-mer counts per copy numbers found in asm



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	Illumina	Omni-C
Coverage	71x	56x	63x

Assembly pipeline

```
- Filtlong
  |_ ver: 0.2.1
  |_ key param: --min_length 1000 --min_mean_q 80
- Hifiasm
  |_ ver: 0.24.0
  |_ key param: --telo-m AACCT"
- YaHS
  |_ ver: 1.2a
  |_ key param: --no-contig-ec
- CLAWS pipeline
  |_ ver: 2.3.0
  |_ key param: NA
- Blob toolkit Nextflow pipeline (latest)
  |_ ver: 0.6
  |_ key param: NA
- FOAM pipeline
  |_ ver: 0.5
  |_ key param: NA
- mitos
  |_ ver: 2.1.3
  |_ key param: NA
```

Curation pipeline

```
- GRIT_Rapid
  |_ ver: 2.0
  |_ key param: NA
- PretextViewAI
  |_ ver: 1.0.4
  |_ key param: NA
```

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