

ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	376741
ToLID	ihScaTita9
Species	Scaphoideus titanus
Class	Insecta
Order	Hemiptera

Genome Traits	Expected	Observed
Haploid size (bp)	3,580,978,054	3,557,496,593
Haploid Number	9 (source: ancestor)	7
Ploidy	2 (source: ancestor)	2
Sample Sex	NA	NA

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 6.8.Q25

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

- . Observed Haploid Number is different from Expected
- . QV value is less than 40 for pri
- . Kmer completeness value is less than 90 for pri
- . Assembly length loss > 3% for pri
- . Not 90% of assembly in chromosomes for pri

Curator notes

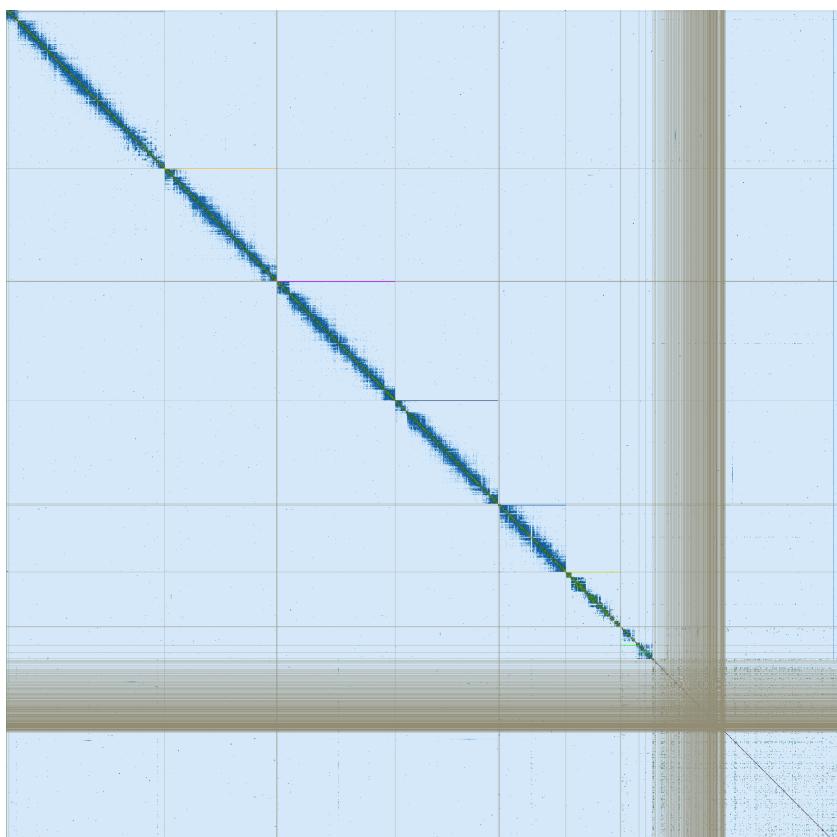
- . Interventions/Gb: None
- . Contamination notes: "A small number of bacteria sequences identified by fcs-gx"
- . Other observations: "None"

Quality metrics table

Metrics	Pre-curation pri	Curated pri
Total bp	3,678,265,121	3,557,496,593
GC %	36.12	36.01
Gaps/Gbp	748.18	757.27
Total gap bp	275,200	270,000
Scaffolds	3,369	2,062
Scaffold N50	281,580,310	440,186,620
Scaffold L50	5	4
Scaffold L90	577	387
Contigs	6,121	4,756
Contig N50	2,586,553	2,738,581
Contig L50	340	319
Contig L90	2,257	1,942
QV	25.7716	25.7105
Kmer compl.	68.9125	67.9999
BUSCO sing.	96.4%	96.5%
BUSCO dupl.	2.7%	2.5%
BUSCO frag.	0.5%	0.6%
BUSCO miss.	0.4%	0.4%

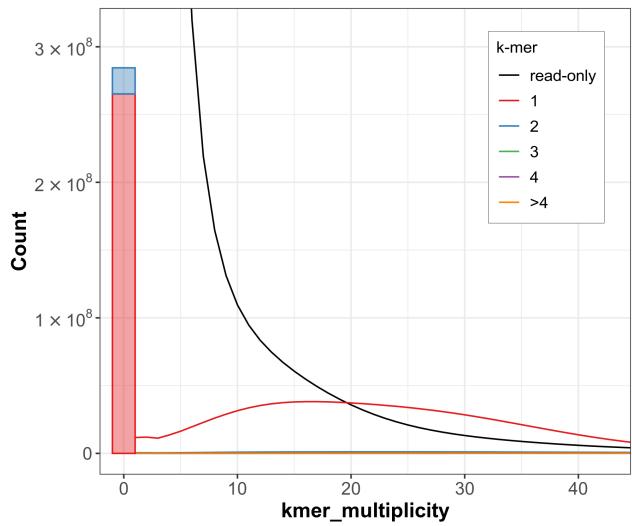
BUSCO: 6.0.0 (euk_genome_min, miniprot) / Lineage: hemiptera_odb12 (genomes:32, BUSCOs:3396)

HiC contact map of curated assembly



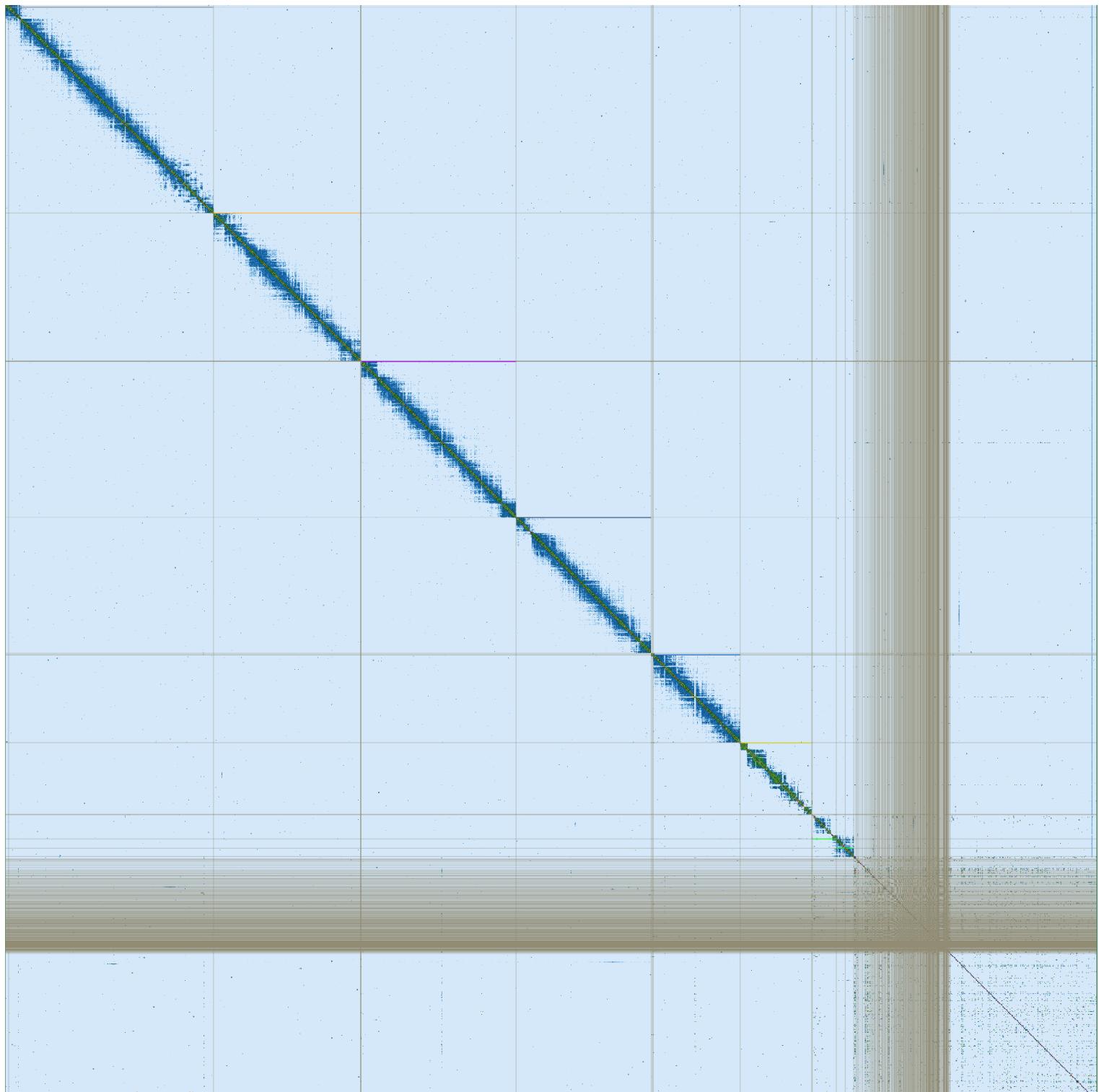
pri [LINK]

K-mer spectra of curated assembly



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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Date and time: 2026-02-28 09:52:05 CET