

# ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	376741
ToLID	<b>ihScaTita9</b>
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

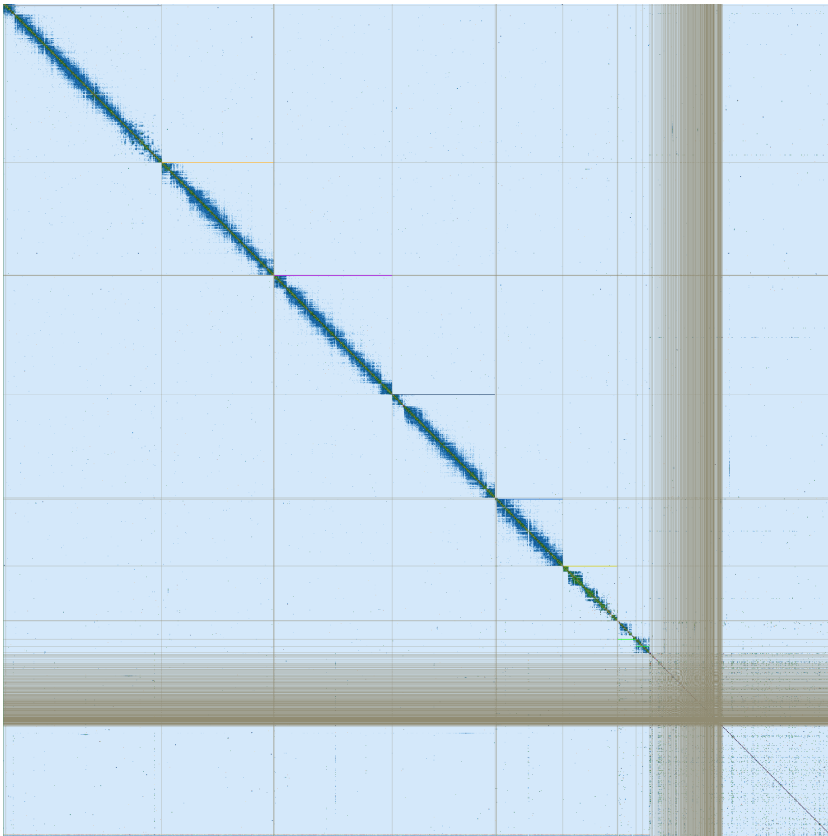
- . Interventions/Gb: None
- . Contamination notes: "A small number of bacteria sequences identified by fcs-gx"
- . Other observations: "None"

# 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%

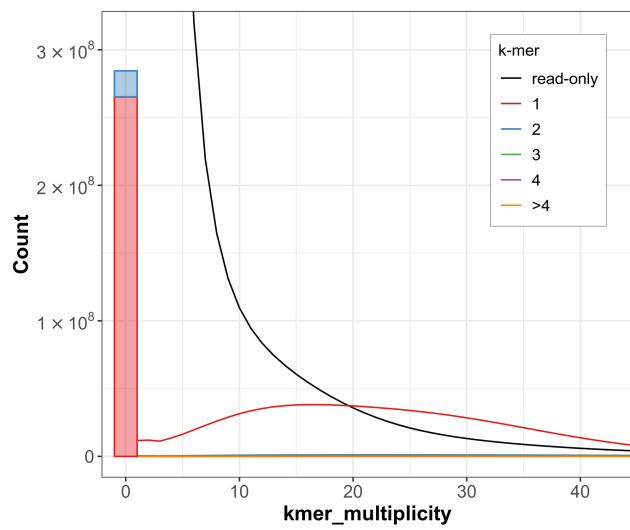
BUSCO: 6.0.0 (euk\_genome\_min, miniprot) / Lineage: hemiptera\_odb12 (genomes:32, BUSCOs:3396)

# HiC contact map of curated assembly



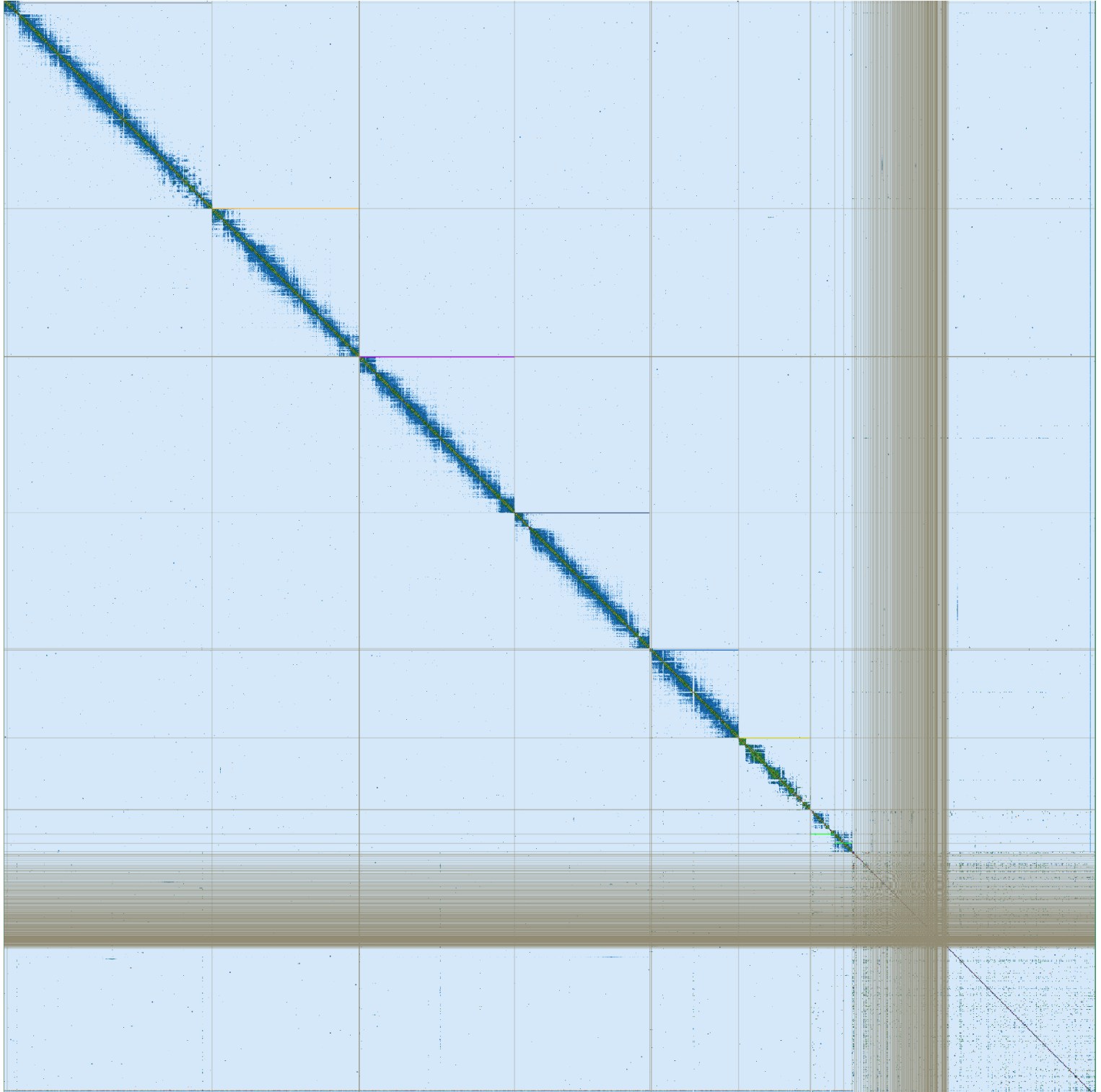
pri [\[LINK\]](#)

# 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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