

# ERGA Assembly Report

v24.04.03\_beta

Tags: ATLASea[INVALID TAG]

TxID	672921
ToLID	<b>tnTubPoly1.1</b>
Species	Tubulanus polymorphus
Class	Palaeonemertea
Order	Tubulaniformes

Genome Traits	Expected	Observed
Haploid size (bp)	281,666,767	267,932,892
Haploid Number	2 (source: ancestor)	12
Ploidy	2 (source: ancestor)	2
Sample Sex	unknown	unknown

## EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 6.7.Q48

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

- . Observed Haploid Number is different from Expected
- . Kmer completeness value is less than 90 for collapsed

### Curator notes

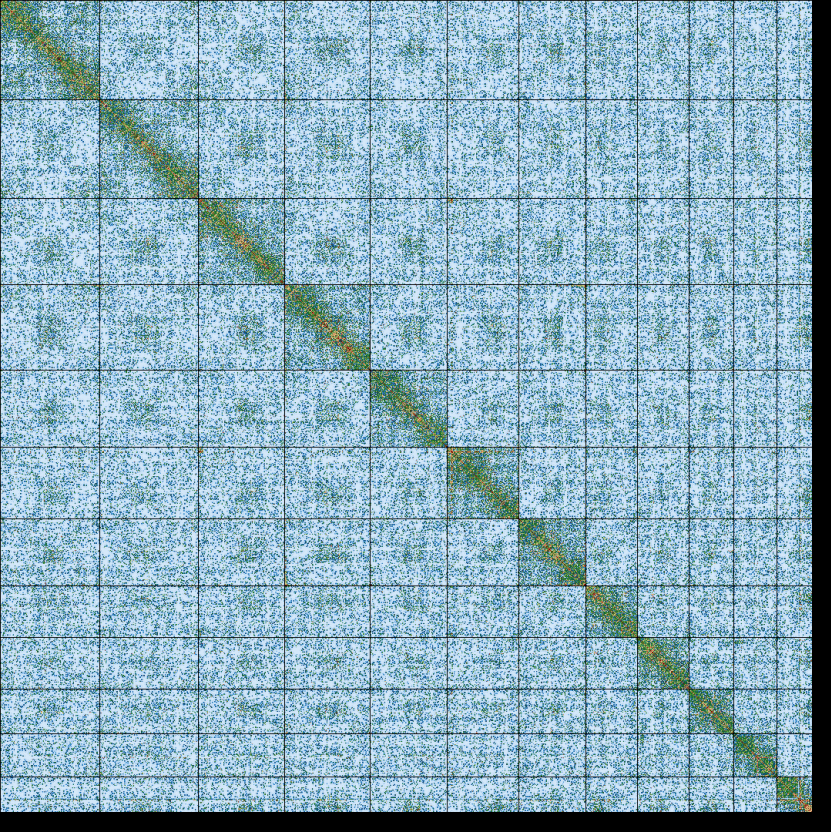
- . Interventions/Gb: 12
- . Contamination notes: "No contamination detected or removed after scaffolding"
- . Other observations: "None"

## Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	267,933,645	267,932,892
GC %	37.69	37.69
Gaps/Gbp	149.29	253.79
Total gap bp	4,000	9,600
Scaffolds	124	81
Scaffold N50	16,924,479	24,873,478
Scaffold L50	5	5
Scaffold L90	12	11
Contigs	164	149
Contig N50	9,529,141	9,529,141
Contig L50	11	11
Contig L90	34	36
QV	48.7773	48.8056
Kmer compl.	81.3228	81.3225
BUSCO sing.	97.6%	97.6%
BUSCO dupl.	0.4%	0.4%
BUSCO frag.	1.6%	1.6%
BUSCO miss.	0.4%	0.4%

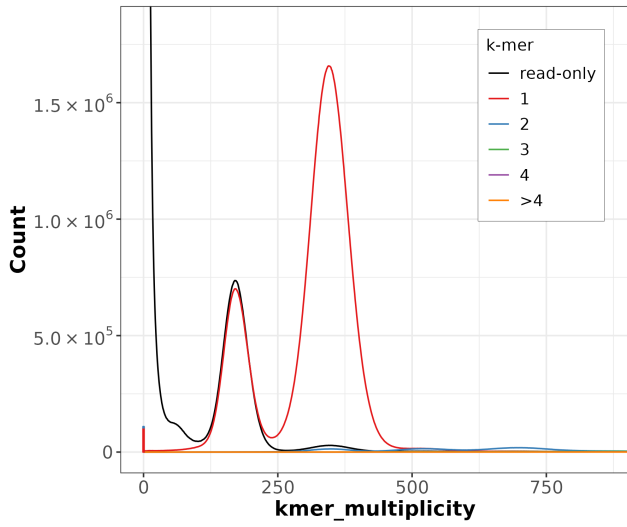
BUSCO 5.4.3 Lineage: eukaryota\_odb10 (genomes:70, BUSCOs:255)

# HiC contact map of curated assembly

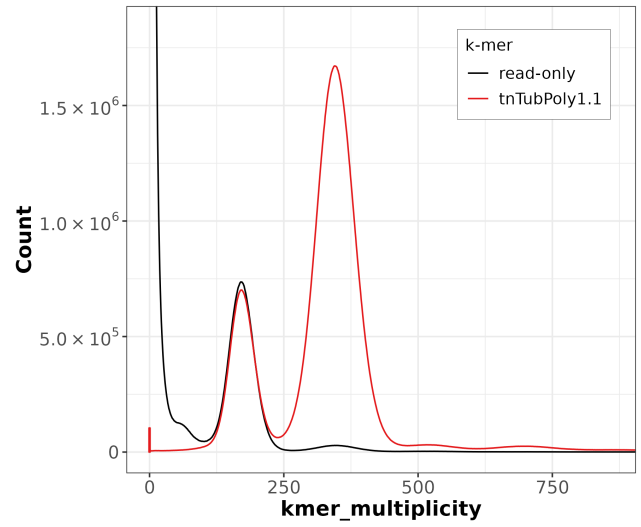


collapsed [\[LINK\]](#)

# K-mer spectra of curated assembly

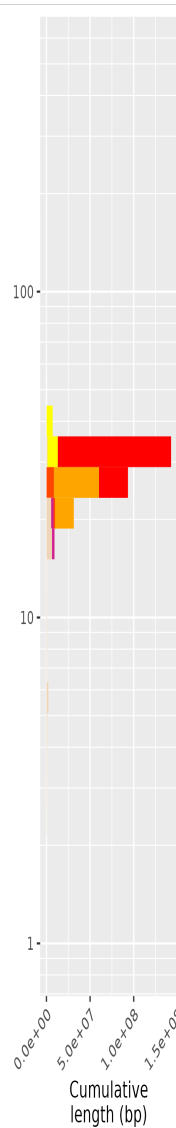
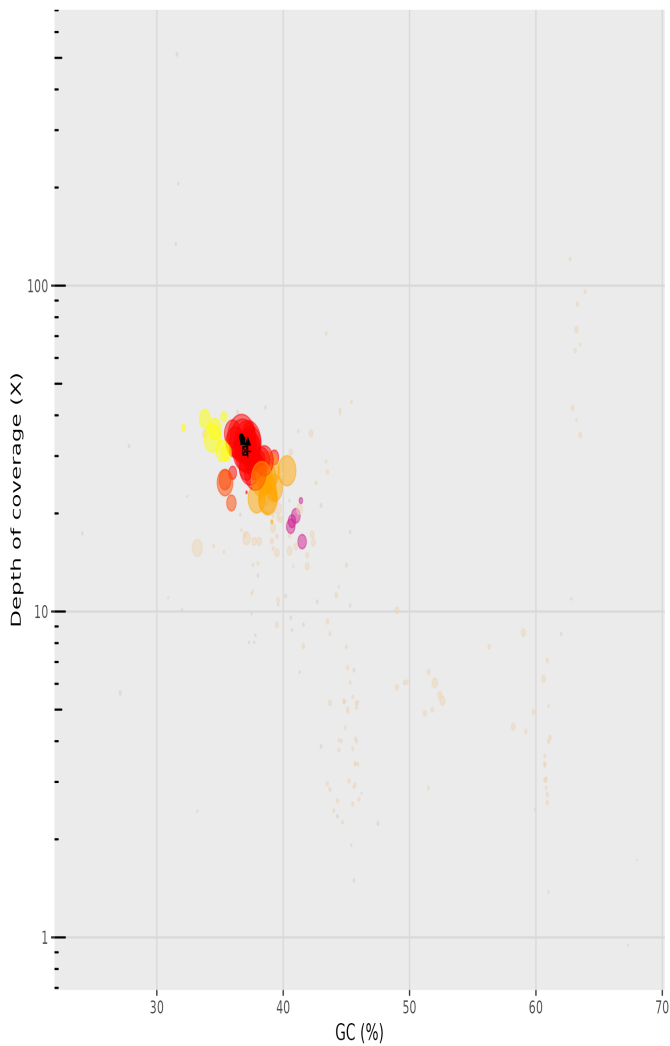
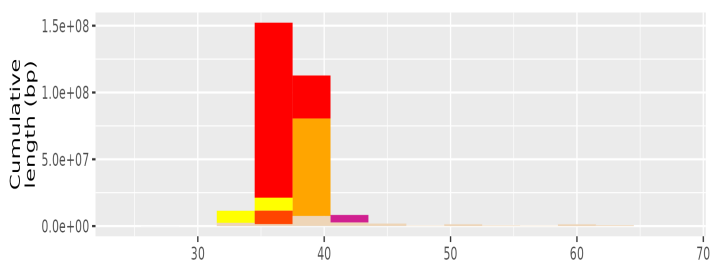


Distribution of k-mer counts per copy numbers found in asm



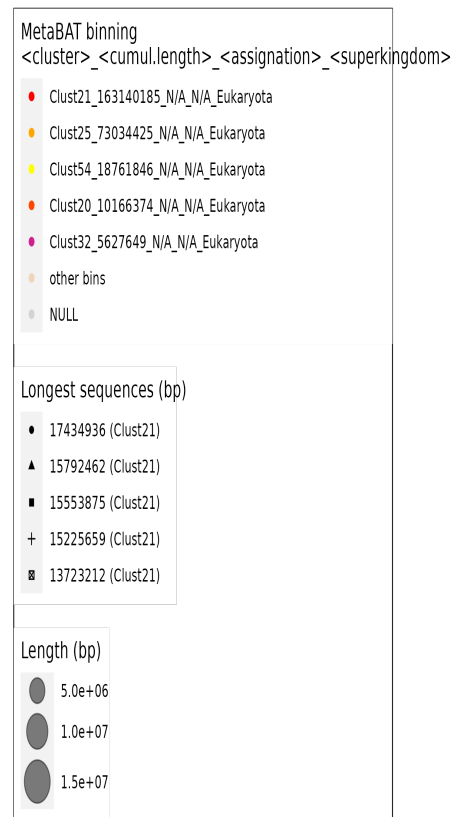
Distribution of k-mer counts coloured by their presence in reads/assemblies

# Post-curation contamination screening



## Decap Summary Graph

(45 0X contigs have been hidden)



**collapsed.** 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	PACBIO Hifi	ONT
Coverage	36X	478X

# Assembly pipeline

- **Hifiasm**
  - |\_ *ver*: 0.19.5-r593
  - |\_ *key param*: NA
- **purge\_dups**
  - |\_ *ver*: 1.2.5
  - |\_ *key param*: NA
- **yahs**
  - |\_ *ver*: 1.2
  - |\_ *key param*: NA

# Curation pipeline

- **Hifiasm**
  - |\_ *ver*: 0.19.5-r593
  - |\_ *key param*: NA
- **purge\_dups**
  - |\_ *ver*: 1.2.5
  - |\_ *key param*: NA
- **yahs**
  - |\_ *ver*: 1.2
  - |\_ *key param*: NA

Submitter: Adama Ndar  
Affiliation: Genoscope

Date and time: 2024-07-26 15:18:53 CEST