ERGA Assembly Report

v24.09.10

Tags: ATLASea[INVALID TAG]

TxID	1443217
ToLID	**keGlaTala1.1**
Species	Glandiceps talaboti
Class	Enteropneusta
Order	NA

Genome Traits	Expected	Observed
Haploid size (bp)	513,604,706	590,507,926
Haploid Number	4 (source: ancestor)	9
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 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

. Kmer completeness value is less than 90 for collapsed
. Not 90% of assembly in chromosomes for collapsed

Curator notes

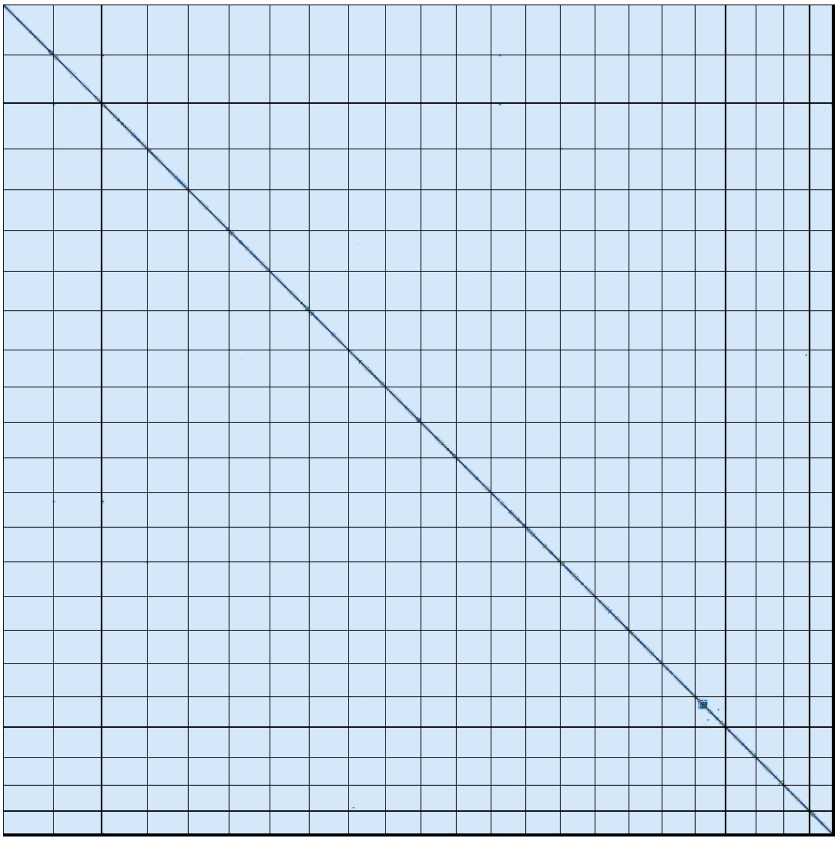
. Interventions/Gb: 102
. Contamination notes: "49 contigs were identified as bacterial sequences and removed, totaling 2.1 Mb, with the largest being 99 Kb "
. Other observations: "A few modifications were made: 33 regions totaling 6.15 Mb were tagged as haplotigs "

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	596,685,097	590,507,926
GC %	35.7	35.7
Gaps/Gbp	254.74	254.02
Total gap bp	15,200	17,200
Scaffolds	71	49
Scaffold N50	25,083,287	25,083,287
Scaffold L50	11	10
Scaffold L90	21	20
Contigs	223	199
Contig N50	6,057,000	6,057,000
Contig L50	28	28
Contig L90	99	98
QV	48.5375	57.0432
Kmer compl.	71.5043	71.2741
BUSCO sing.	97.4%	97.5%
BUSCO dupl.	0.7%	0.5%
BUSCO frag.	1.3%	1.3%
BUSCO miss.	0.6%	0.7%

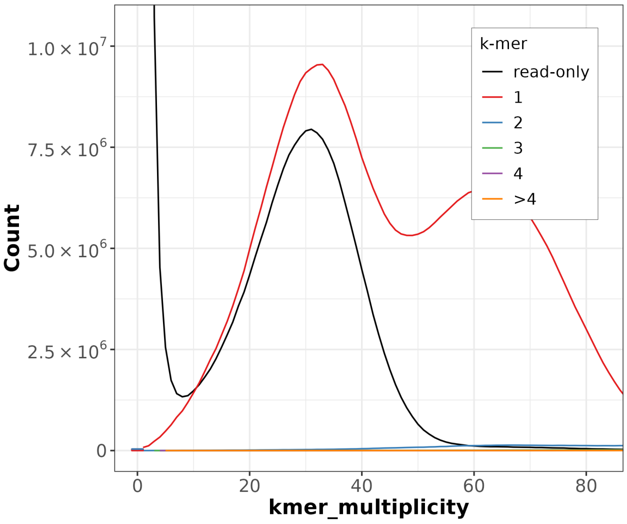
BUSCO 5.4.3 Lineage: metazoa_odb10 (genomes:65, BUSCOs:954)

HiC contact map of curated assembly

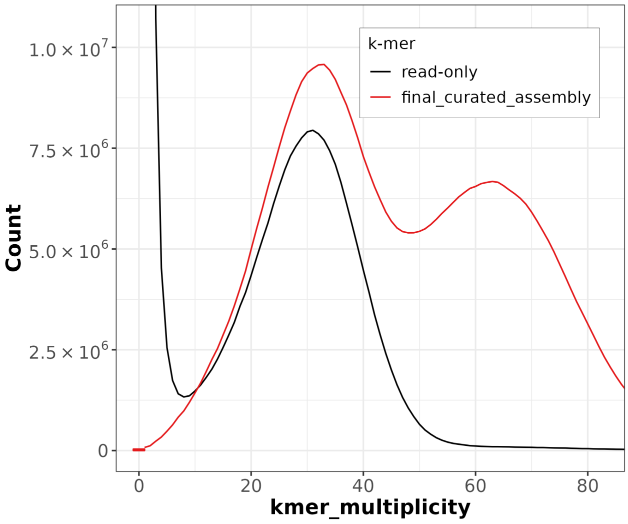


collapsed [LINK]

K-mer spectra of curated assembly

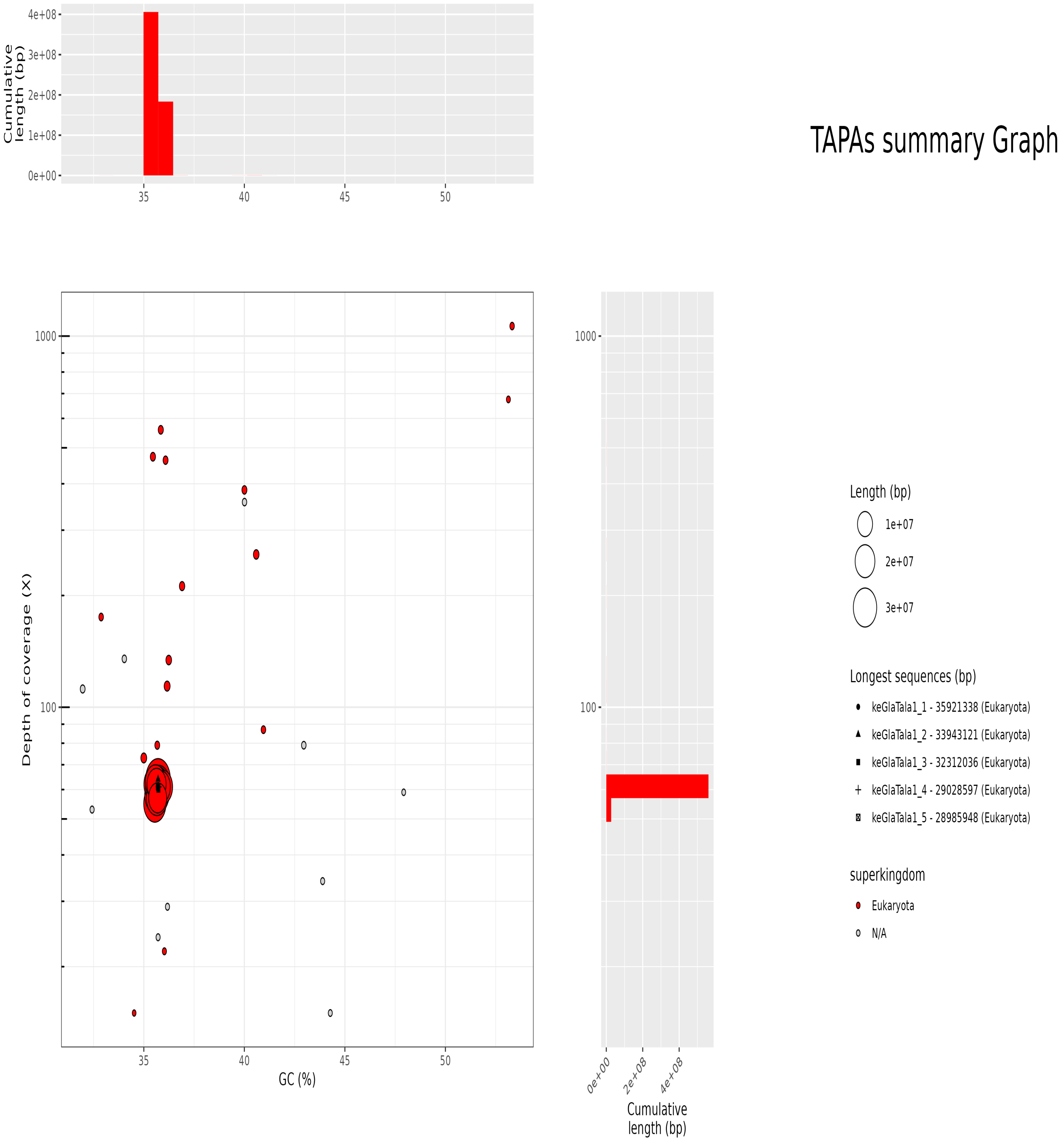


Distribution of k-mer counts per copy numbers found in asm



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

Post-curation contamination screening



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	Arima (4-enz)
Coverage	62	69

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

- **PretextMap**
    |_ *ver:* 0.1.9
    |_ *key param:* NA
- **PretextView**
    |_ *ver:* 0.2.5
    |_ *key param:* NA

Submitter: Jean-Marc Aury
Affiliation: Genoscope

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