ERGA Assembly Report

v24.10.15

Tags: ERGA-Pilot

TxID	30301		
ToLID	kaBotSchl1		
Species	Botryllus schlosseri		
Class	Ascidiacea		
Order	Stolidobranchia		

Genome Traits	Expected	Observed
Haploid size (bp)	536,801,721	555,430,406
Haploid Number	16 (source: ancestor)	17
Ploidy	2 (source: ancestor)	2
Sample Sex	unknown	unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 6.7.Q42

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 pri
- . BUSCO single copy value is less than 90% for pri
- . Assembly length loss > 3% for pri

Curator notes

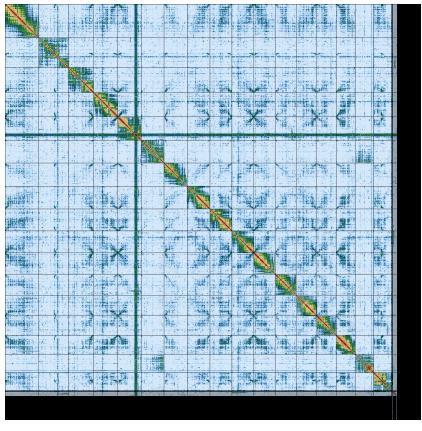
- . Interventions/Gb: 152
- . Contamination notes: "No presence of contaminants."
- . Other observations: "None"

Quality metrics table

Metrics	Pre-curation pri	Curated pri	
Total bp	669,506,172	555,430,406	
GC %	40.46	40.46	
Gaps/Gbp	648.24	898.4	
Total gap bp	86,800	59,000	
Scaffolds	560	432	
Scaffold N50	29,857,706	29,281,996	
Scaffold L50	10	9	
Scaffold L90	49	17	
Contigs	994	931	
Contig N50	1,847,095 1,837,08		
Contig L50	112 95		
Contig L90	373	327	
QV	42.6514	42.0554	
Kmer compl.	75.4032	65.5143	
BUSCO sing.	84.5%	89.1%	
BUSCO dupl.	7.8%	1.5%	
BUSCO frag.	1.5%	1.5%	
BUSCO miss.	6.3%	8.0%	

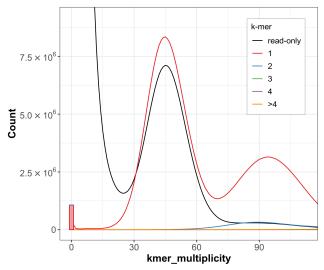
BUSCO: 5.8.2 (euk_genome_aug, augustus) / Lineage: metazoa_odb10 (genomes:65, BUSCOs:954)

HiC contact map of curated assembly

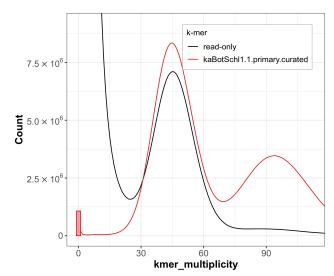


pri [LINK]

K-mer spectra of curated assembly



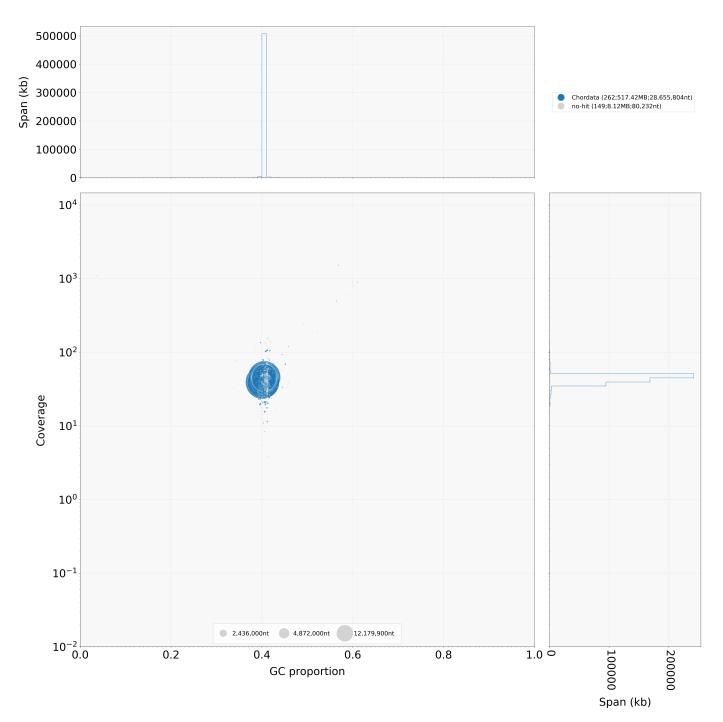
Distribution of k-mer counts per copy numbers found in asm



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

Post-curation contamination screening

file name. blob DB. js on. best sum. phylum. p8. span. 100. blob plot. bam 0



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	Bionano	OmniC
Coverage	135x	NA	141x

Assembly pipeline

Curation pipeline

```
- sanger-tol/curationpretext
```

|_ ver: 1.4.1 |_ key param: NA - PretextView |_ ver: 1.0.3

|_ ver: 1.0.3 |_ key param: NA

Submitter: Carmela Gissi Affiliation: UNIBA

Date and time: 2025-09-23 10:35:47 CEST