ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	1656920		
ToLID	kaSymBrak		
Species	Symplegma brakenhielmi		
Class	Ascidiacea		
Order	Stolidobranchia		

Genome Traits	Expected	Observed
Haploid size (bp)	639,728,327	563,800,036
Haploid Number	16 (source: ancestor)	16
Ploidy	2 (source: ancestor)	2
Sample Sex	unknown	unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 6.7.Q41

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

- . Kmer completeness value is less than 90 for pri
- . Assembly length loss > 3% for pri
- . More than 1000 gaps/Gbp for pri

Curator notes

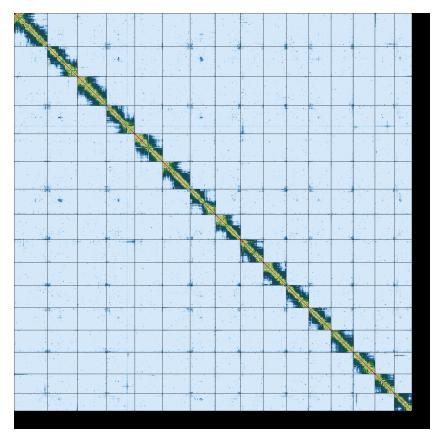
- . Interventions/Gb: 200
- . Contamination notes: "From the BlobTools analysis, chromosomes SUPER_12 and SUPER_16 are classified as "Arthropoda" instead of "Chordata," thus identifying them as contaminants. Both align to the same sequence, with an alignment length of 6,051 in both cases."
- . Other observations: ""

Quality metrics table

Metrics	Pre-curation pri	Curated pri	
Total bp	600,884,103	563,800,036	
GC %	40.66	40.22	
Gaps/Gbp	1,214.88	1,424.26	
Total gap bp	73,000	96,400	
Scaffolds	1,101	699	
Scaffold N50	30,480,455	33,584,967	
Scaffold L50	9	8	
Scaffold L90	28	15	
Contigs	1,831	1,502	
Contig N50	1,215,688 1,243,4		
Contig L50	135 126		
Contig L90	595	512	
QV	39.7478	41.8511	
Kmer compl.	84.7795	80.7483	
BUSCO sing.	88.4%	90.4%	
BUSCO dupl.	4.1%	1.9%	
BUSCO frag.	2.2%	1.6%	
BUSCO miss.	5.3%	6.2%	

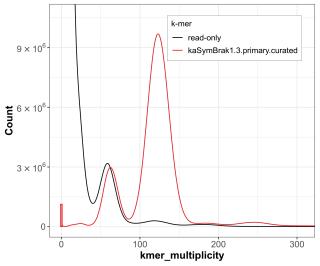
BUSCO: 5.8.2 (euk_genome_aug, augustus) / Lineage: metazoa_odb10 (genomes:65, BUSCOs:954)

HiC contact map of curated assembly

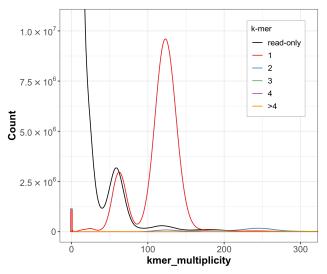


pri [LINK]

K-mer spectra of curated assembly



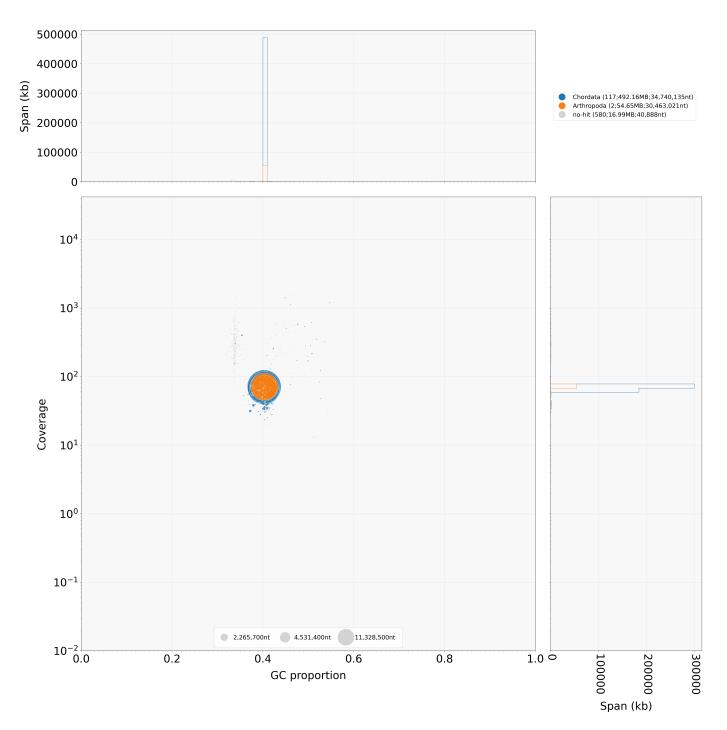
Distribution of k-mer counts coloured by their presence in reads/assemblies



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

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	HiC
Coverage	169x	NA	104x

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

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