

ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	1917237
ToLID	kaDisBerm
Species	Distaplia bermudensis
Class	Ascidacea
Order	Aplousobranchia

Genome Traits	Expected	Observed
Haploid size (bp)	467,817,527	446,060,772
Haploid Number	9 (source: ancestor)	11
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:

- . 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

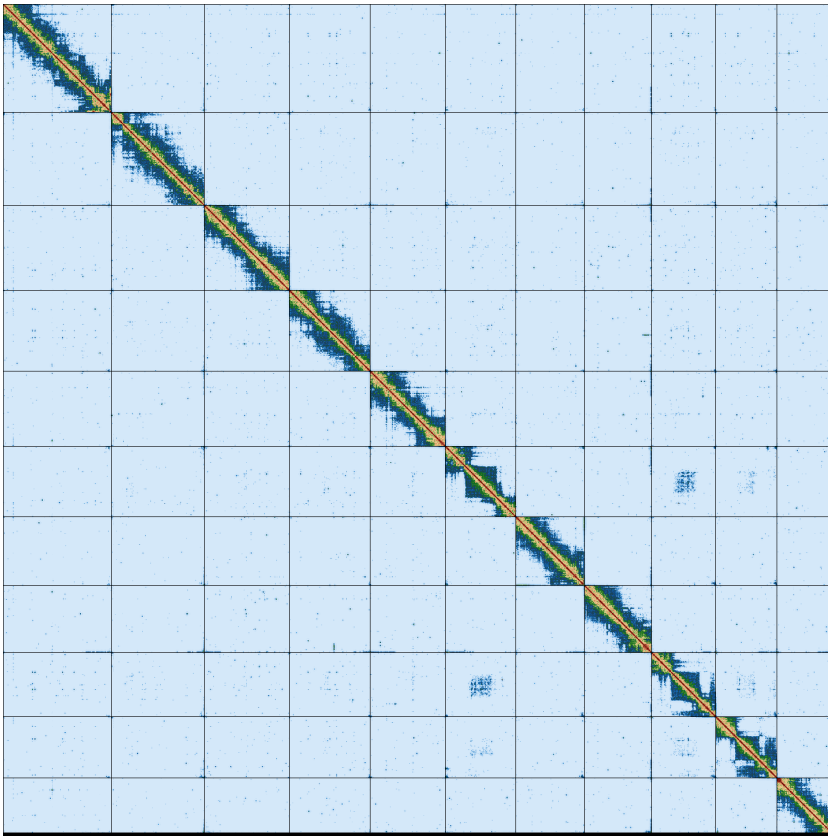
- . Interventions/Gb: 250
- . Contamination notes: "No presence of contaminants."
- . Other observations: "Contact map generated after second EAR report review."

Quality metrics table

Metrics	Pre-curation pri	Curated pri
Total bp	473,035,248	446,060,772
GC %	34.11	33.93
Gaps/Gbp	600.38	710.67
Total gap bp	28,400	40,600
Scaffolds	159	80
Scaffold N50	38,939,299	40,291,008
Scaffold L50	5	5
Scaffold L90	11	10
Contigs	443	397
Contig N50	2,465,347	2,561,150
Contig L50	58	54
Contig L90	195	175
QV	41.2374	41.0654
Kmer compl.	85.5584	82.6955
BUSCO sing.	87.4%	89.4%
BUSCO dupl.	3.1%	0.9%
BUSCO frag.	1.7%	1.4%
BUSCO miss.	7.8%	8.3%

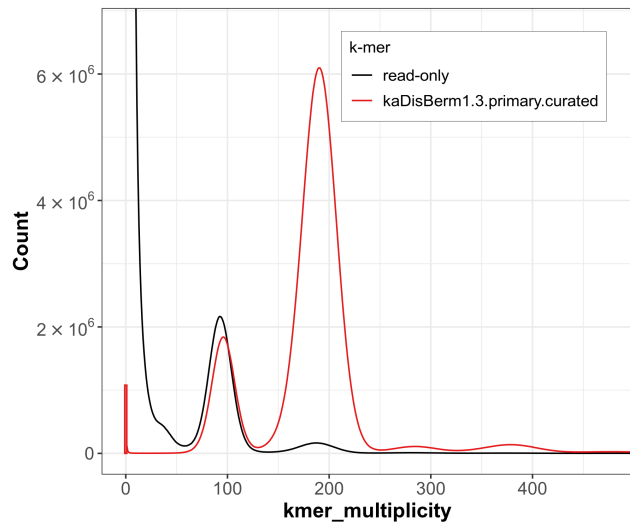
BUSCO: 5.8.2 (euk_genome_aug, augustus) / Lineage: metazoa_odb10 (genomes:65, BUSCOs:954)

HiC contact map of curated assembly

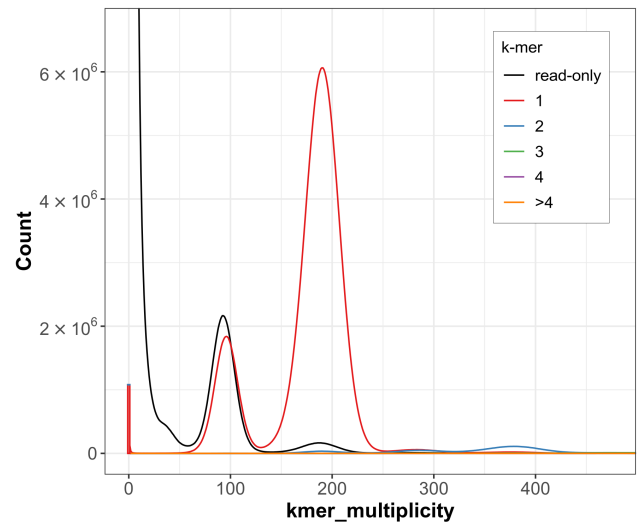


pri [\[LINK\]](#)

K-mer spectra of curated assembly



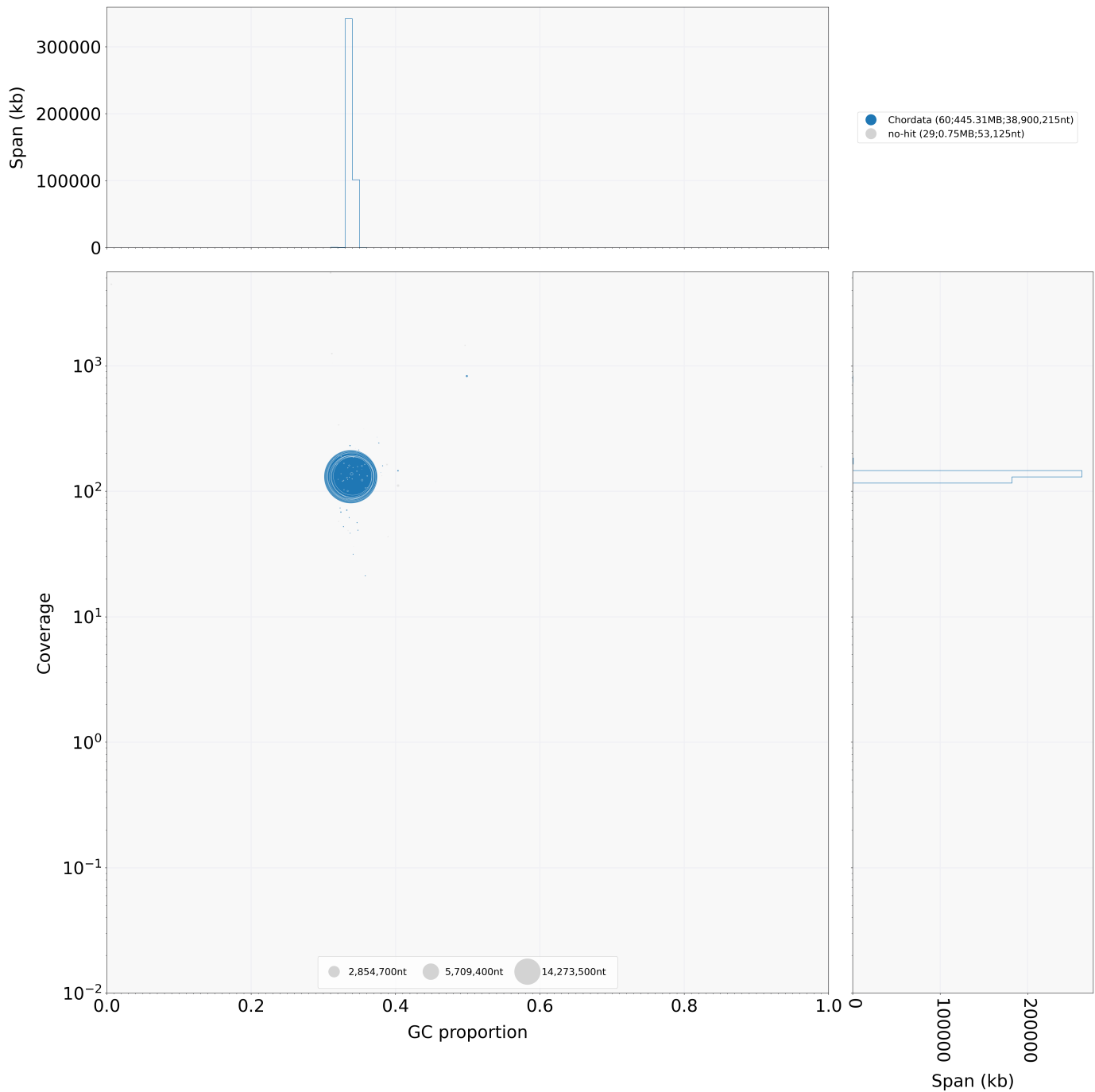
Distribution of k-mer counts coloured by their presence in reads/assemblies



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

Post-curation contamination screening

filename.blobDB.json.bestsum.phylum.p8.span.100.blobplot.bam0



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	247x	NA	105x

Assembly pipeline

- **Necat**
 - |_ *ver*: 0.0.1
 - |_ *key param*: NA
- **purge_dups**
 - |_ *ver*: 1.2.5
 - |_ *key param*: NA
- **YaHS**
 - |_ *ver*: 1.1
 - |_ *key param*: NA

Curation pipeline

- **sanger-tol/curationpretext**
 - |_ *ver*: 1.4.1
 - |_ *key param*: NA
- **PretextView**
 - |_ *ver*: 1.0.3
 - |_ *key param*: NA

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