ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	3139678
ToLID	**qlAbsGiga1**
Species	Absolonia gigantea
Class	Collembola
Order	Poduromorpha

Genome Traits	Expected	Observed
Haploid size (bp)	357,714,307	453,403,575
Haploid Number	5 (source: ancestor)	0
Ploidy	2 (source: ancestor)	2
Sample Sex	NA	NA

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 6.6.Q60

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

. Observed Haploid size (bp) has >20% difference with Expected
. Observed Haploid Number is different from Expected
. Kmer completeness value is less than 90 for pri
. Not 90% of assembly in chromosomes for pri

Curator notes

. Interventions/Gb: None
. Contamination notes: "60 sequences totalling 3Mb were identified as proteobacteria by fcs-gx and removed"
. Other observations: "Hi-C library failed for this species. A contig-level assembly is submitted after purging and decontamination."

Quality metrics table

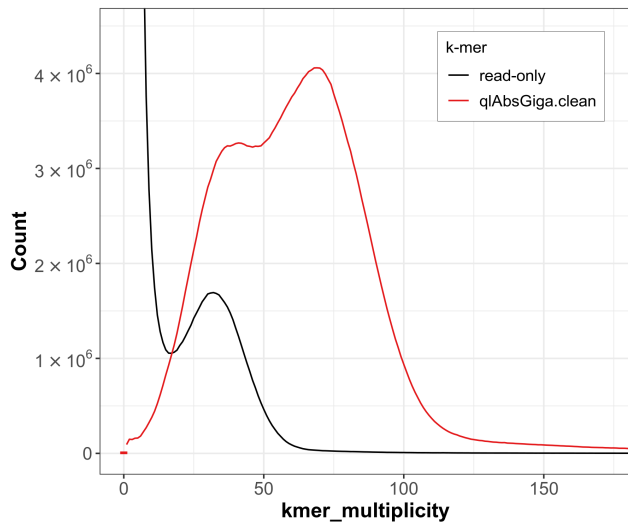| Metrics	Pre-curation pri	Curated pri
Total bp	453,403,575	453,403,575
GC %	35.85	35.85
Gaps/Gbp	0	0
Total gap bp	0	0
Scaffolds	491	491
Scaffold N50	3,310,077	3,310,077
Scaffold L50	37	37
Scaffold L90	162	162
Contigs	491	491
Contig N50	3,310,077	3,310,077
Contig L50	37	37
Contig L90	162	162
QV	60.6246	60.6246
Kmer compl.	84.5474	84.5474
BUSCO sing.	94.3%	94.3%
BUSCO dupl.	3.4%	3.4%
BUSCO frag.	1.3%	1.3%
BUSCO miss.	1.0%	1.0%

BUSCO: 6.0.0 (euk_genome_min, miniprot) / Lineage: arthropoda_odb12 (genomes:76, BUSCOs:1667)
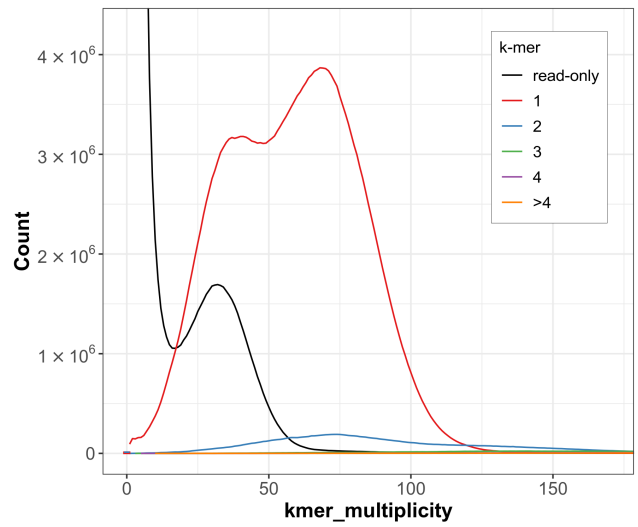
HiC contact map of curated assembly

pri HiC PNG is missing!

pri File link is missing!
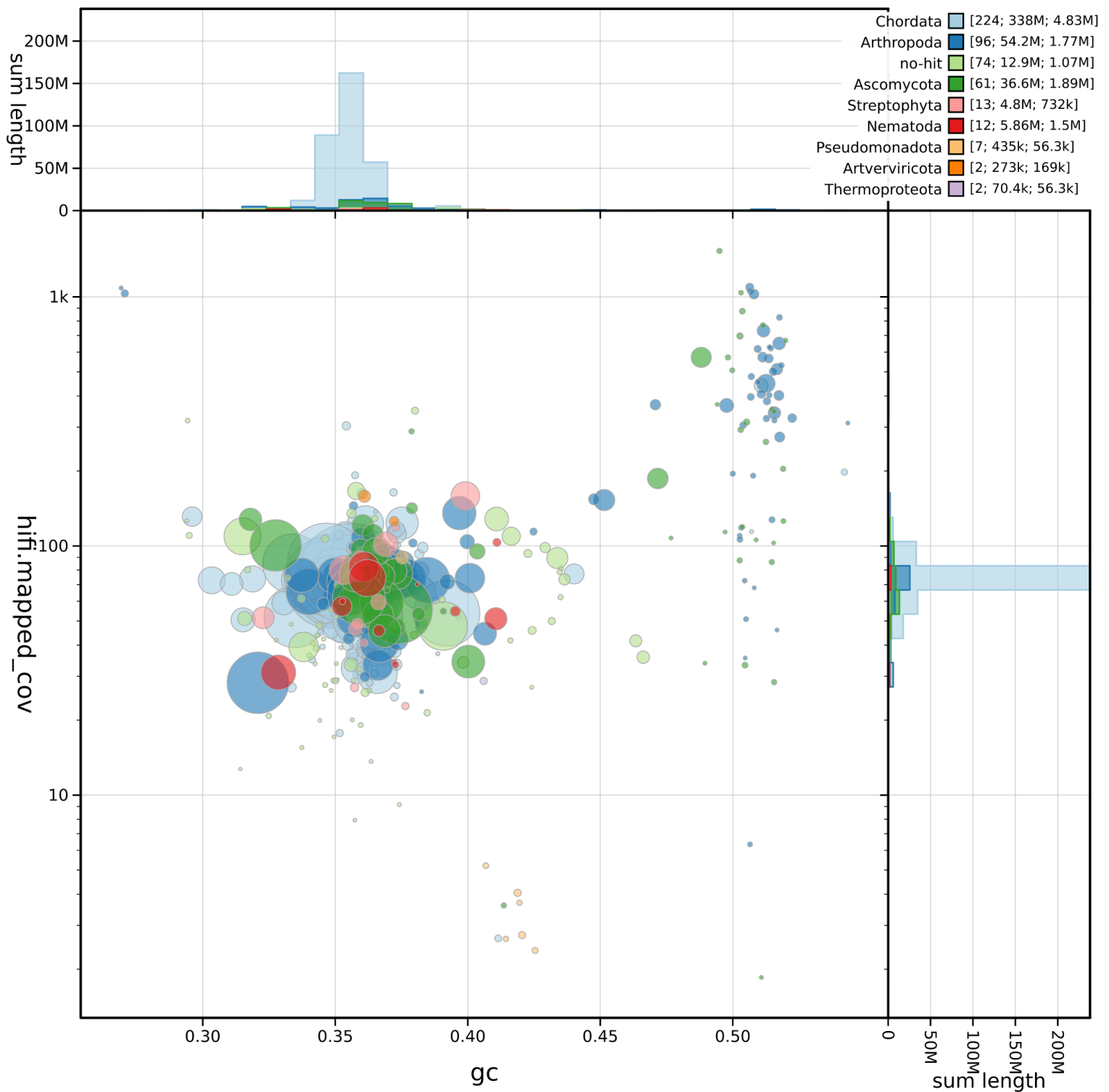
K-mer spectra of curated assembly

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

Chordata	[224; 338M; 4.83M]
Arthropoda	[96; 54.2M; 1.77M]
no-hit	[74; 12.9M; 1.07M]
Ascomycota	[61; 36.6M; 1.89M]
Streptophyta	[13; 4.8M; 732k]
Nematoda	[12; 5.86M; 1.5M]
Pseudomonadota	[7; 435k; 56.3k]
Artverviricota	[2; 273k; 169k]
Thermoproteota	[2; 70.4k; 56.3k]

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	HiFi
Coverage	50

Assembly pipeline

- **hifiasm**
  - |_ *ver:* 0.24.0
  - |_ *key param:* NA
- **purge-dups**
  - |_ *ver:* 1.2.6
  - |_ *key param:* NA
- **fcs**
  - |_ *ver:* 0.5.4
  - |_ *key param:* NA

Curation pipeline

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Date and time: 2026-01-22 11:51:13 CET