

ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	1960709
ToLID	wpGesJame1
Species	Gesiella jameensis
Class	Polychaeta
Order	Phyllodocida

Genome Traits	Expected	Observed
Haploid size (bp)	8,446,252,482	8,590,060,017
Haploid Number	10 (source: ancestor)	9
Ploidy	2 (source: ancestor)	2
Sample Sex	unknown	unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 6.9.Q66

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

- . Observed Haploid Number is different from Expected
- . Assembly length loss > 3% for pri

Curator notes

- . Interventions/Gb: 193
- . Contamination notes: "FCS-GX identified 59 contaminants (proteobacteria and mycosplasma) which we removed (the larger ones are tagged in pretextview savestate and the rest will be removed with a script)."
- . Other observations: "Round1 curation on entire genome made 25 cuts in contigs, 115 breaks at gaps and 238 joins. A second round of curation, 1 pretextmap per super, made 377 cuts in contigs, 460 breaks at gaps and 444 joins. Many haplotigs removed from gap flanks."

Quality metrics table

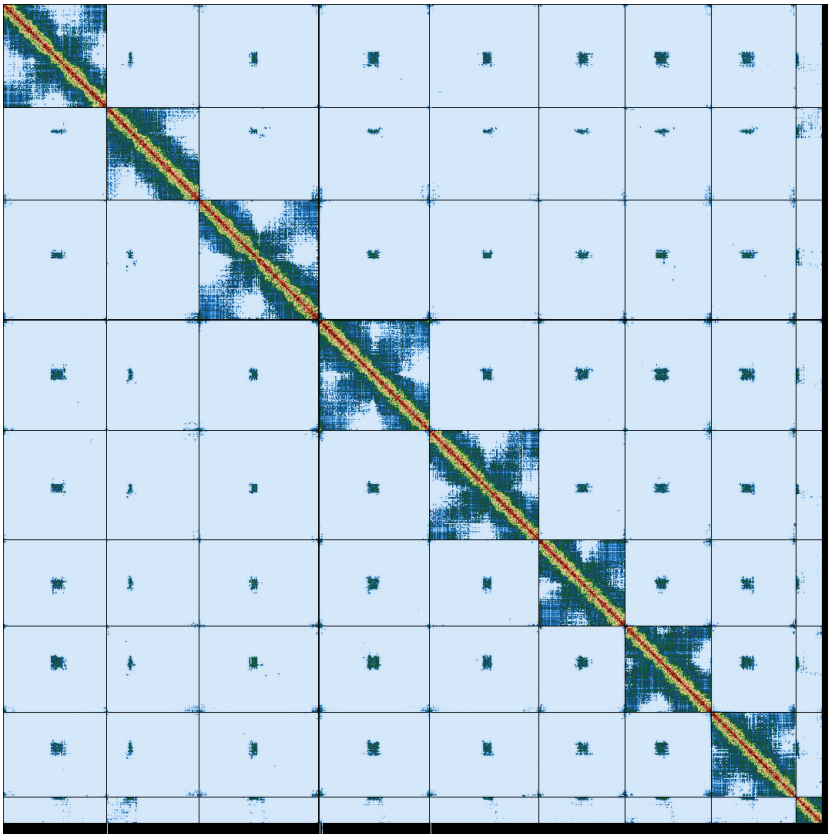
Metrics	Pre-curation pri	Curated pri
Total bp	8,893,284,574	8,590,060,017
GC %	41.77	41.78
Gaps/Gbp	207.01	224.45
Total gap bp	368,200	385,600
Scaffolds	2,025	1,816
Scaffold N50	1,062,753,756	1,071,549,555
Scaffold L50	4	4
Scaffold L90	8	8
Contigs	3,866	3,744
Contig N50	7,120,079	7,197,108
Contig L50	383	370
Contig L90	1,258	1,201
QV	66.3363	66.385
Kmer compl.	93.9213	93.4586
BUSCO sing.	83.6%	93.0%
BUSCO dupl.	5.5%	3.9%
BUSCO frag.	7.1%	2.1%
BUSCO miss.	3.8%	1.0%

Warning! BUSCO versions or lineage datasets are not the same across results:

BUSCO: 5.5.0 (euk_genome_met, metaeuk) / Lineage: metazoa_odb10 (genomes:65, BUSCOs:954)

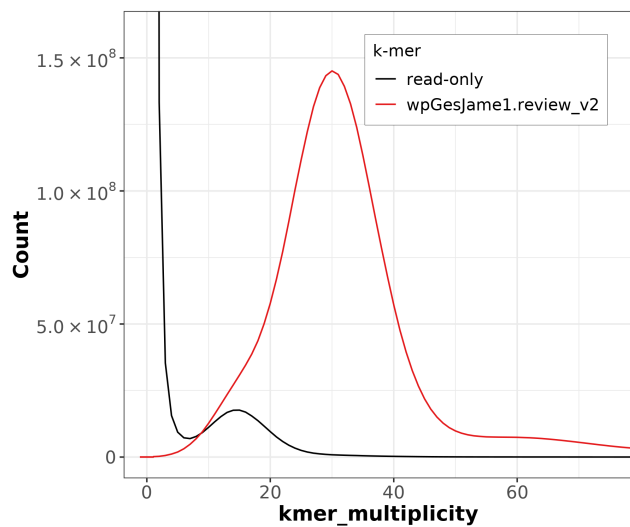
BUSCO: 6.0.0 (euk_genome_min, miniprot) / Lineage: metazoa_odb12 (genomes:206, BUSCOs:672)

HiC contact map of curated assembly

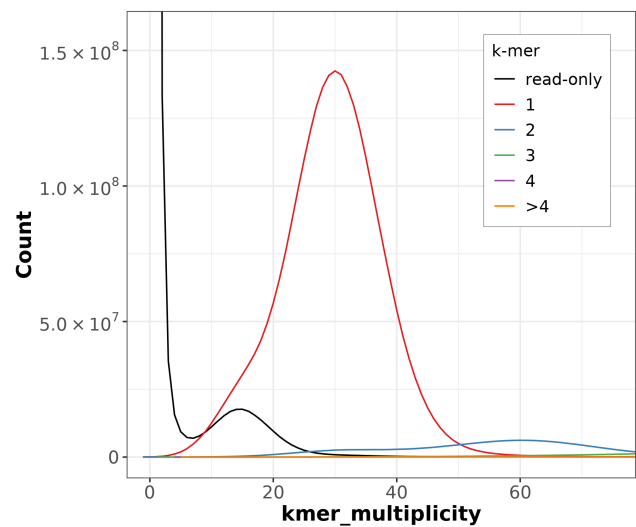


pri [\[LINK\]](#)

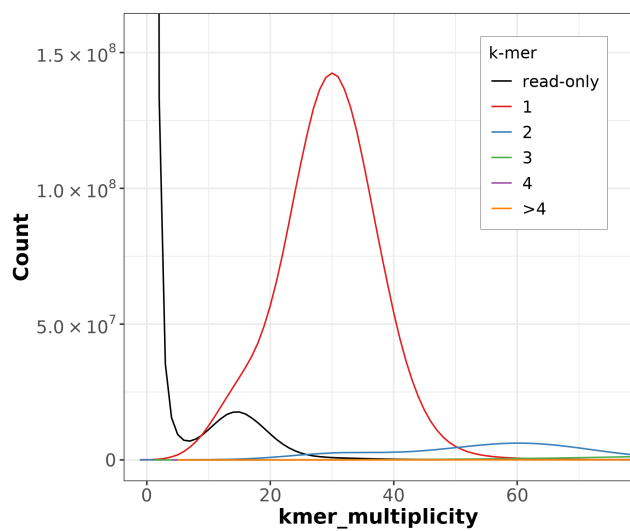
K-mer spectra of curated assembly



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

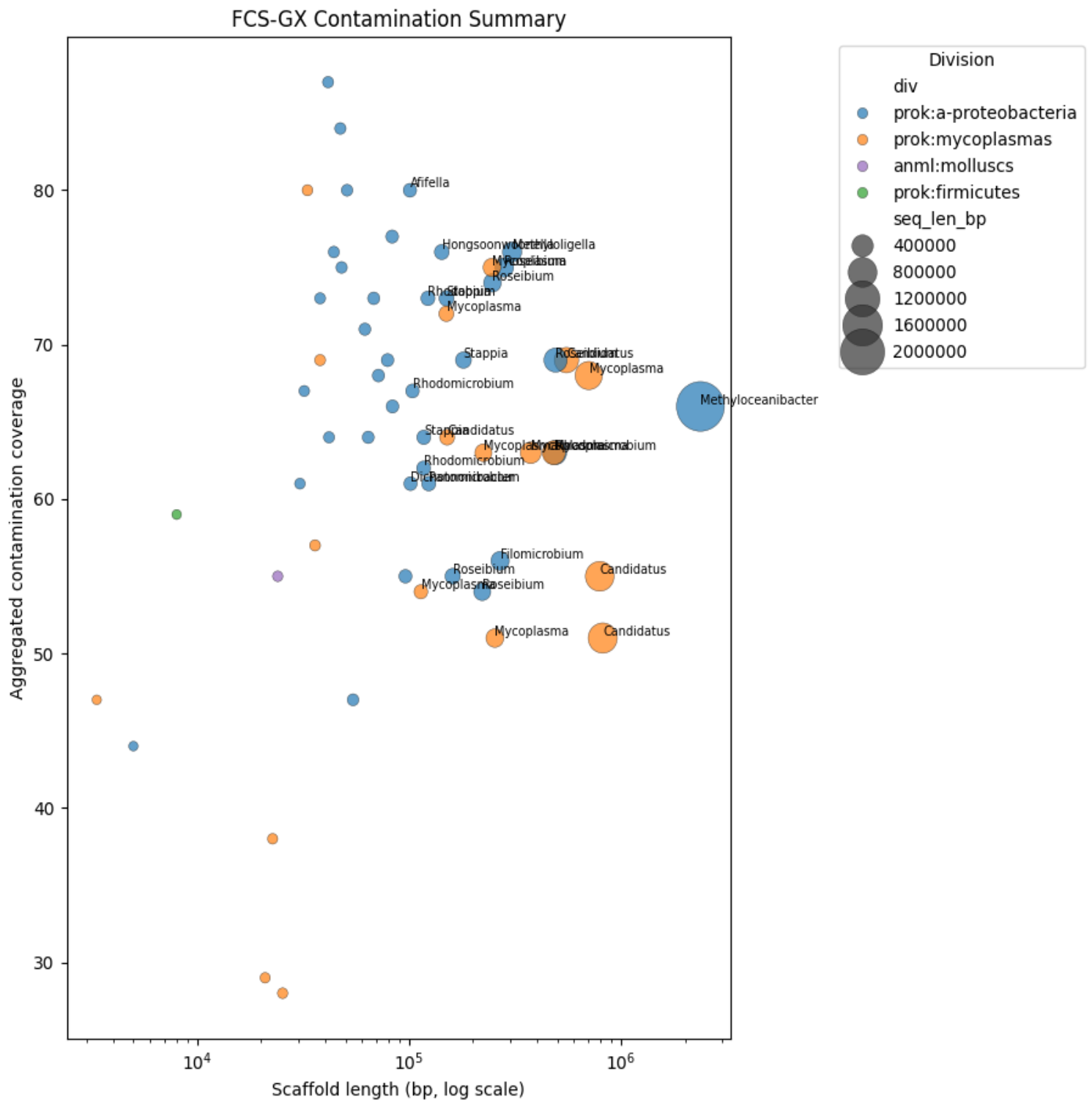


Distribution of k-mer counts per copy numbers found in asm



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

Post-curation contamination screening



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	Pacbio HiFi	ONT	Illumina	Omni-C
Coverage	27x	21x	17x	69x

Assembly pipeline

- **Filtlong**
 - |_ *ver*: 0.2.1
 - |_ *key param*: --min_length 1000 --min_mean_q 80
- **Hifiasm**
 - |_ *ver*: 0.24.0
 - |_ *key param*: "
- **YaHS**
 - |_ *ver*: 1.2a
 - |_ *key param*: NA
- **CLAWS pipeline**
 - |_ *ver*: 2.3.0
 - |_ *key param*: NA
- **Blobtoolkit Nextflow pipeline (latest)**
 - |_ *ver*: 0.6
 - |_ *key param*: NA
- **FOAM pipeline**
 - |_ *ver*: 0.5
 - |_ *key param*: NA
- **mitos**
 - |_ *ver*: 2.1.3
 - |_ *key param*: NA

Curation pipeline

- **GRIT_Rapid**
 - |_ *ver*: 2.0
 - |_ *key param*: NA
- **PretextViewAI**
 - |_ *ver*: 1.0.4
 - |_ *key param*: NA

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