ERGA Assembly Report

v24.04.03_beta

Tags: ERGA-BGE

TxID	420550	
ToLID	idCulPerx1	
Species	Culex perexiguus	
Class	Insecta	
Order	Diptera	

Genome Traits	Expected	Observed
Haploid size (bp)	353,856,597	436,181,468
Haploid Number	3 (source: ancestor)	3
Ploidy	3 (source: ancestor)	2
Sample Sex	XX	XX

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 5.8.Q55

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 Ploidy is different from Expected
- . Assembly length loss > 3% for pri
- . More than 1000 gaps/Gbp for pri

Curator notes

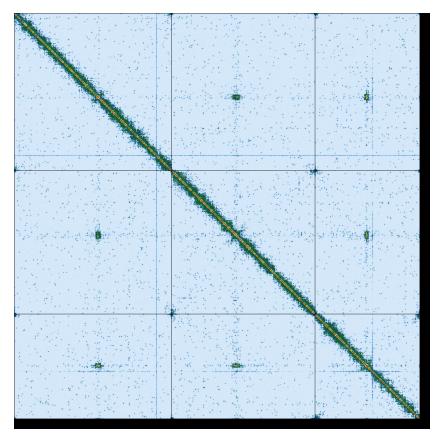
- . Interventions/Gb: 651
- . Contamination notes: "Total length of scaffolds removed: 84,166 (0.0 %); Scaffolds removed: 3 (0.4 %); Largest scaffold removed: (42,305); FCS-GX contaminant species (number of scaffolds; total length of scaffolds): None; Mitochondrion (3; 84,166)"
 . Other observations: "This is the second version of this assembly after feedback from the initial EAR. Chromosomes named by size; PacBio library was ULI hence lower contig N50; Hi-C from a different individual, so assembly is not Hi-C phased"

Quality metrics table

468
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927
4

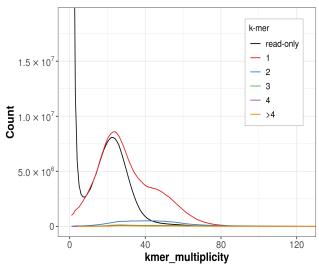
BUSCO 5.3.0 Lineage: insecta_odb10 (genomes:75, BUSCOs:1367)

HiC contact map of curated assembly

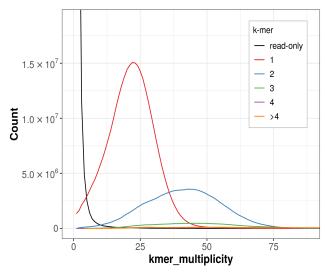


pri [LINK]

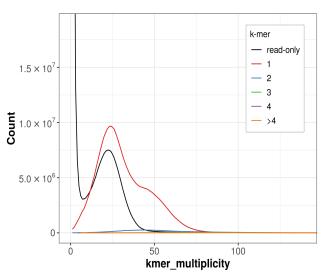
K-mer spectra of curated assembly



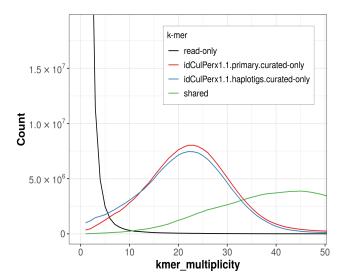
Distribution of k-mer counts per copy numbers found in **haplotigs** (hapl.)



Distribution of k-mer counts per copy numbers found in asm (dipl.)

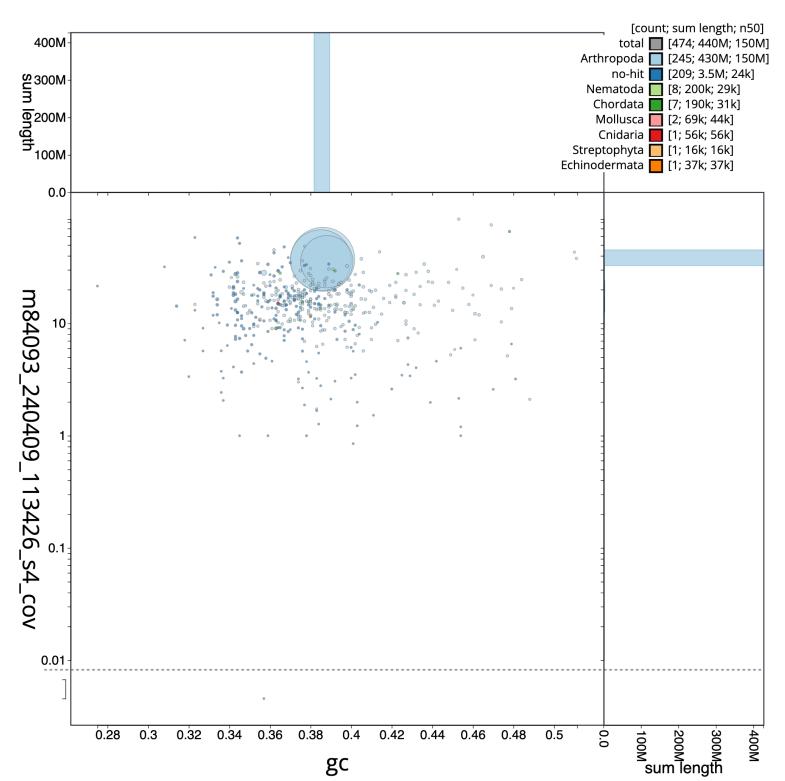


Distribution of k-mer counts per copy numbers found in (hapl.)



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

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	Arima v2
Coverage	49x	187x

Assembly pipeline

Curation pipeline

Submitter: Thomas Mathers

Affiliation: WSI

Date and time: 2024-08-14 18:10:12 CEST