

ERGA Assembly Report

v24.09.10

Tags: ERGA-BGE

TxID	9659
ToLID	mMarFoi2
Species	Martes foina
Class	Mammalia
Order	Carnivora

Genome Traits	Expected	Observed
Haploid size (bp)	2,439,340,219	2,388,581,548
Haploid Number	19 (source: direct)	19
Ploidy	2 (source: ancestor)	2
Sample Sex	XY	XY

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 7.8.Q56

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

Curator notes

. Interventions/Gb: 4 . Contamination notes: "No contaminants detected in the Nextdenovo assembly selected for curation."

. Other observations: "Curation and review made 0 cuts in contigs, 3 breaks at a gap and 7 joins. SUPER_Y sequence accounts for 5,617,504 bp. The final assembly contains 2 unplaced scaffolds shorter than the HiC map resolution. Link points to a folder cotaining the pretext map and the final savestate for the curated assembly.

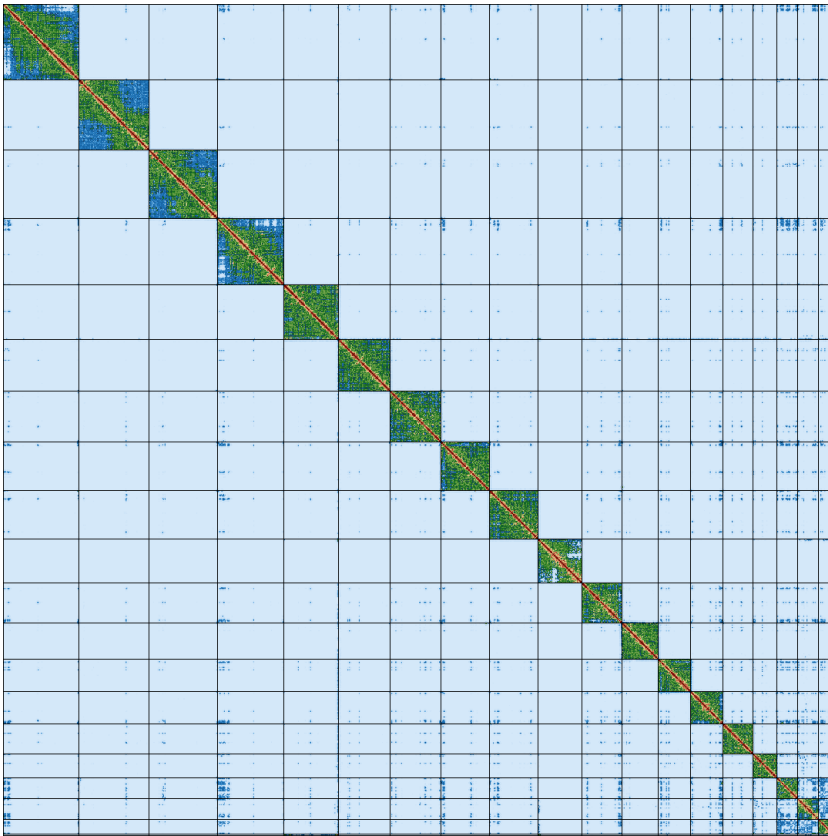
Mitogenome was successfully assembled into a circular contig of 16,591 bp and high sequence accuracy."

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	2,388,579,948	2,388,581,548
GC %	41.74	41.74
Gaps/Gbp	20.93	24.28
Total gap bp	10,000	11,600
Scaffolds	27	22
Scaffold N50	146,036,623	146,036,623
Scaffold L50	7	7
Scaffold L90	16	15
Contigs	77	80
Contig N50	64,160,893	64,160,893
Contig L50	13	13
Contig L90	39	39
QV	56.1982	56.1982
Kmer compl.	98.0977	98.0977
BUSCO sing.	97.0%	97.0%
BUSCO dupl.	1.1%	1.2%
BUSCO frag.	0.8%	0.8%
BUSCO miss.	1.1%	1.0%

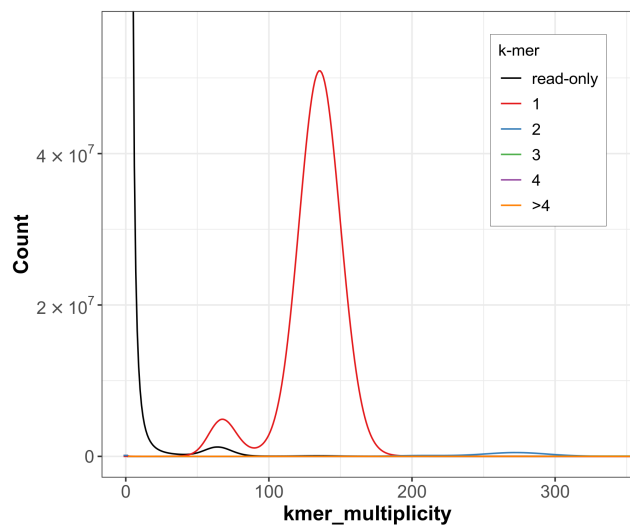
BUSCO 5.4.0 Lineage: vertebrata_odb10 (genomes:67, BUSCOs:3354)

HiC contact map of curated assembly

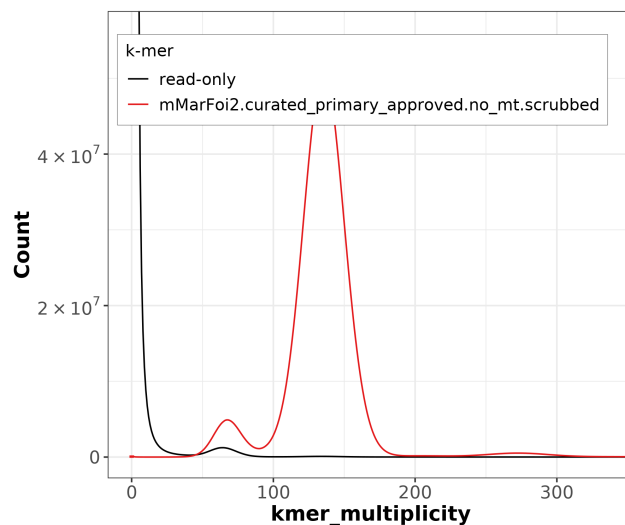


collapsed [\[LINK\]](#)

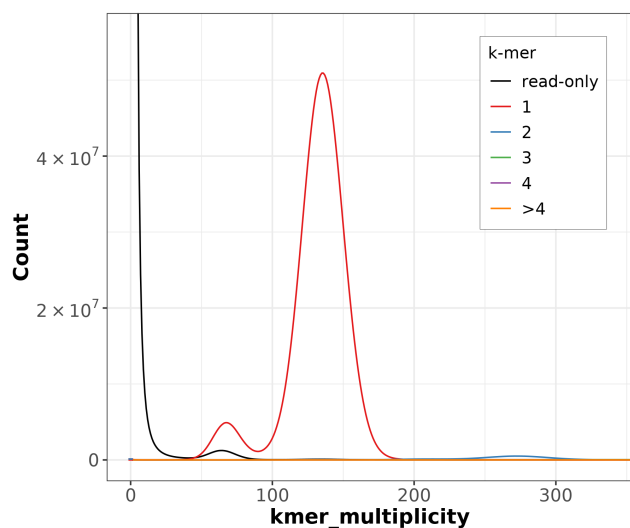
K-mer spectra of curated assembly



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



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

Data profile

Data	ONT	Illumina	Omnich
Coverage	114x	80x	102x

Assembly pipeline

- **CLAWS pipeline**
 - |_ *ver*: 2.2.0
 - |_ *key param*: NA
- **Trim_galore**
 - |_ *ver*: 0.6.7
 - |_ *key param*: NA
- **Filtlong**
 - |_ *ver*: 0.2.1
 - |_ *key param*: NA
- **flye**
 - |_ *ver*: 2.9.1
 - |_ *key param*: NA
- **nextdenovo**
 - |_ *ver*: 2.5.0
 - |_ *key param*: NA
- **hypo**
 - |_ *ver*: 1.0.3
 - |_ *key param*: NA
- **purge_dups**
 - |_ *ver*: 1.2.6
 - |_ *key param*: NA
- **YaHS**
 - |_ *ver*: 1.2a
 - |_ *key param*: NA
- **FOAM pipeline**
 - |_ *ver*: 0.5
 - |_ *key param*: NA
- **mitos**
 - |_ *ver*: 2.1.3
 - |_ *key param*: NA

Curation pipeline

- **PretextView**
 - |_ *ver*: 0.2.5
 - |_ *key param*: NA
- **GRIT_Rapid**
 - |_ *ver*: 2.0
 - |_ *key param*: NA

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