ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	412090
ToLID	**mPipHan1**
Species	Pipistrellus hanaki
Class	Mammalia
Order	Chiroptera

Genome Traits	Expected	Observed
Haploid size (bp)	1,711,701,524	1,892,181,625
Haploid Number	22 (source: ancestor)	23
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Y

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 7.7.Q59

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

. Observed Haploid Number is different from Expected
. Observed sex is different from Sample sex

Curator notes

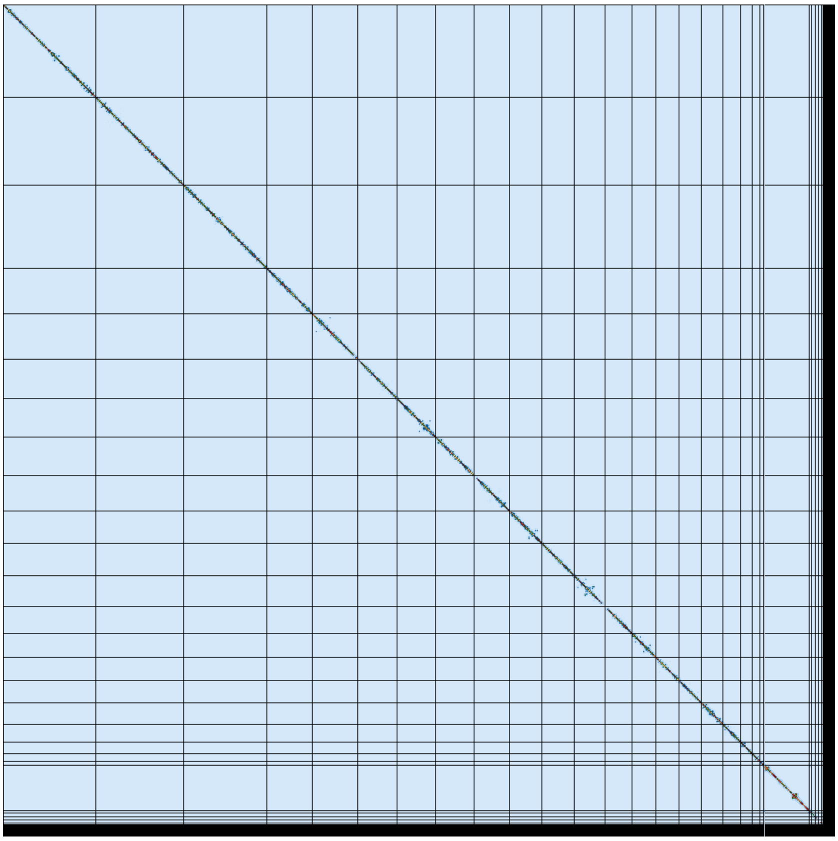
. Interventions/Gb: 50
. Contamination notes: ""
. Other observations: "A misassembled 56 kb scaffold corresponding to mitochondria was deleted and a new mitochondrial sequence was added. "

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	1,912,253,451	1,892,181,625
GC %	42.55	42.55
Gaps/Gbp	149.04	161.72
Total gap bp	28,500	34,100
Scaffolds	167	141
Scaffold N50	91,412,170	89,115,682
Scaffold L50	7	7
Scaffold L90	18	18
Contigs	452	447
Contig N50	45,232,785	48,700,701
Contig L50	16	16
Contig L90	70	69
QV	59.4962	59.4872
Kmer compl.	94.9997	94.6588
BUSCO sing.	93.6%	92.7%
BUSCO dupl.	1.7%	1.6%
BUSCO frag.	0.5%	0.5%
BUSCO miss.	4.2%	5.2%

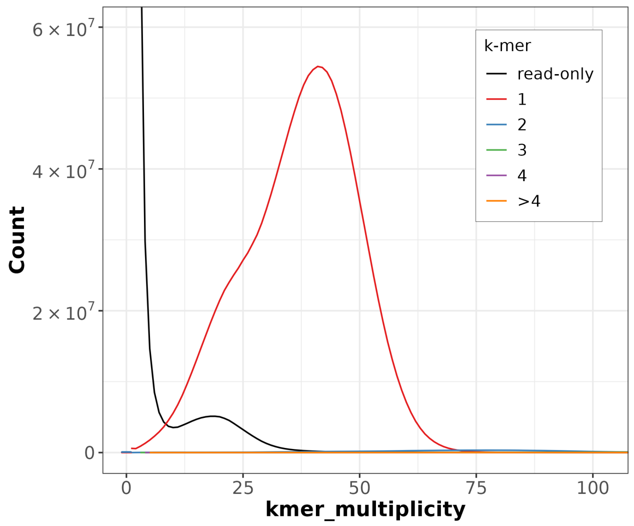
BUSCO: 5.4.3 (euk_genome_met, metaeuk) / Lineage: laurasiatheria_odb10 (genomes:52, BUSCOs:12234)

HiC contact map of curated assembly

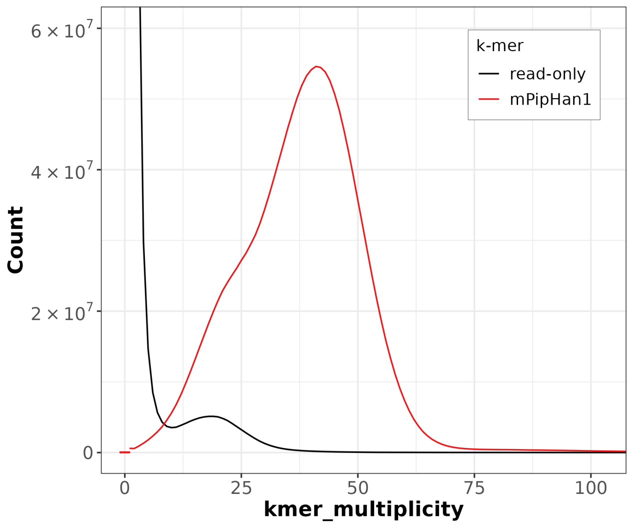


collapsed [LINK]

K-mer spectra of curated assembly

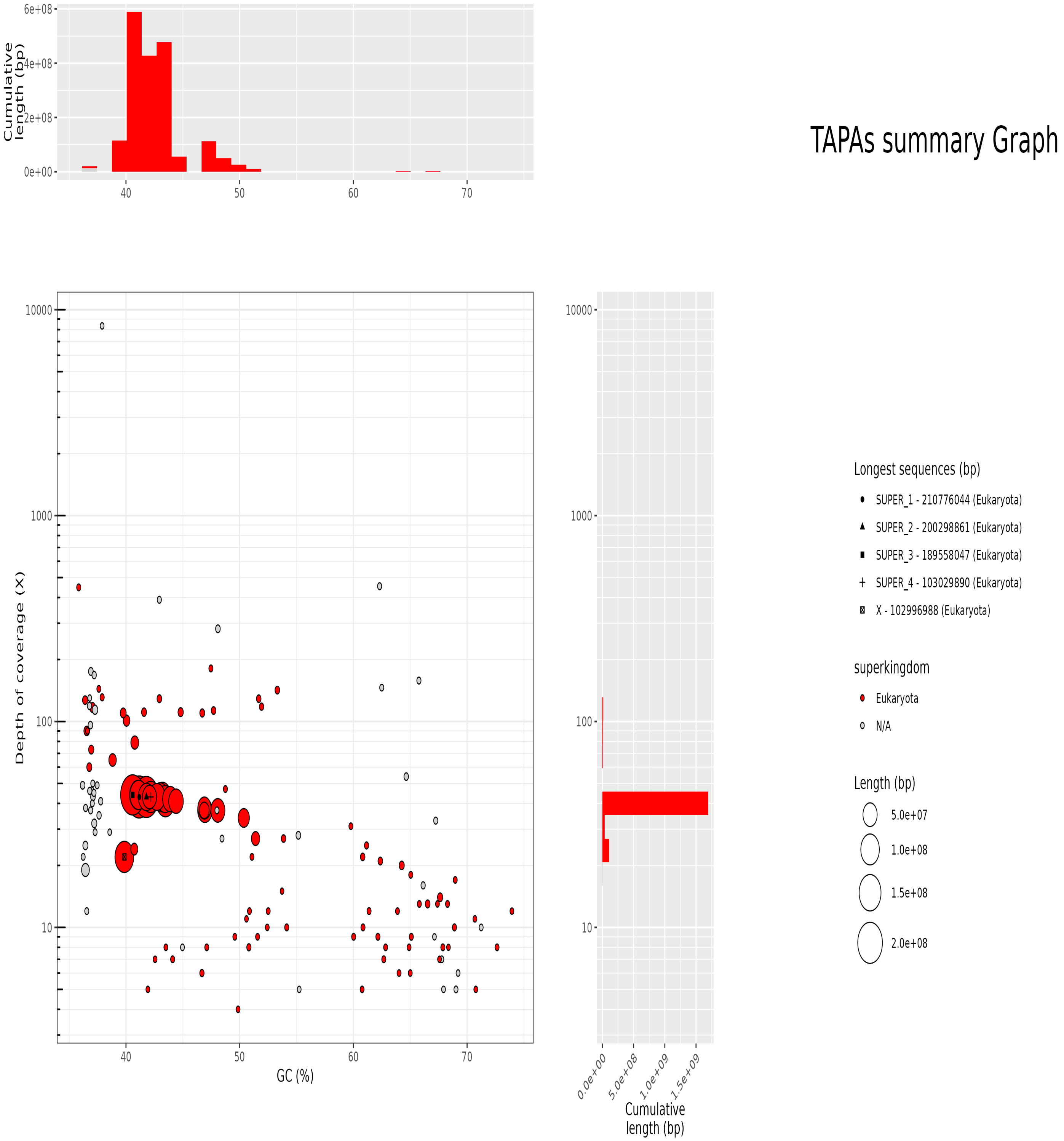


Distribution of k-mer counts per copy numbers found in asm



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

Post-curation contamination screening



collapsed. 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
Coverage	36	19

Assembly pipeline

- **Hifiasm**
    - |_ *ver:* 0.19.5-r593
    - |_ *key param:* NA
- **purge_dups**
    - |_ *ver:* 1.2.5
    - |_ *key param:* NA
- **YaHS**
    - |_ *ver:* 1.2
    - |_ *key param:* NA

Curation pipeline

- **PretextMap**
    - |_ *ver:* 0.1.9
    - |_ *key param:* NA
- **PretextView**
    - |_ *ver:* 0.2.5
    - |_ *key param:* NA

Submitter: Sophie Mangenot
Affiliation: Genoscope

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