#### ERGA Assembly Report

v24.04.03\_beta

Tags: ERGA-BGE

TxID	65001	
ToLID	daCheTaga1	
Species	Cheirolophus tagananensis	
Class	Magnoliopsida	
Order	Asterales	

Genome Traits	Expected	Observed
Haploid size (bp)	645,759,218	623,521,733
Haploid Number	15 (source: direct)	16
Ploidy	2 (source: ancestor)	2
Sample Sex	Н	unknown

#### EBP metrics summary and curation notes

Obtained EBP quality metric for hap1: 6.7.Q60

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
- . Assembly length loss > 3% for hap1

#### Curator notes

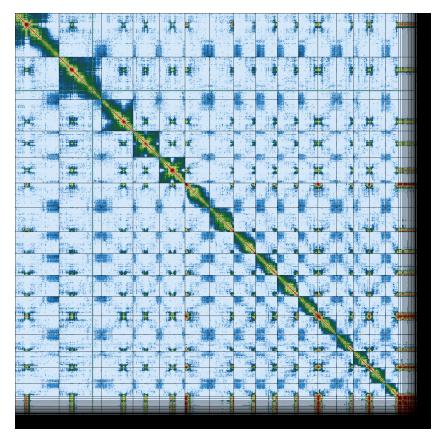
- . Interventions/Gb: 36
- . Contamination notes: "Total length of scaffolds removed: 58,772,027 (8.7 %); Scaffolds removed: 1165 (82.5 %); Largest scaffold removed: (180,771); FCS-GX contaminant species (number of scaffolds; total length of scaffolds): Mitochondrion (44; 1,788,085); Plastid (1121; 56,983,929); Barcodes (1; 13)"
- . Other observations: "The high GC scaffolds on the blobplot are the unplaces repetitive sequence in the bottom right of the  ${\tt Hi-C}$  map."

# Quality metrics table

Metrics	Pre-curation hap1	Curated hap1
Total bp	678,516,303	623,521,733
GC %	36.66	36.6
Gaps/Gbp	284.44	298.31
Total gap bp	38,600	37,200
Scaffolds	1,412	235
Scaffold N50	35,173,251	36,486,517
Scaffold L50	7	7
Scaffold L90	100	16
Contigs	1,605	421
Contig N50	3,718,255	3,968,000
Contig L50	56	50
Contig L90	289	151
QV	56.4	60.5
Kmer compl.	99.18	99.07
BUSCO sing.	91.9%	92.8%
BUSCO dupl.	5.0%	5.0%
BUSCO frag.	0.5%	0.5%
BUSCO miss.	2.6%	1.7%

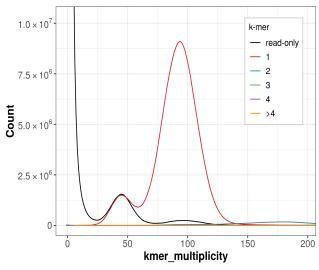
BUSCO 5.3.0 Lineage: eudicots\_odb10 (genomes:31, BUSCOs:2326)

# HiC contact map of curated assembly

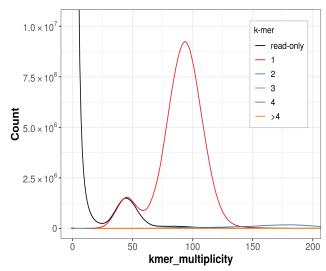


hap1 [LINK]

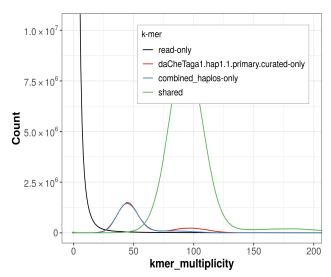
# K-mer spectra of curated assembly



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

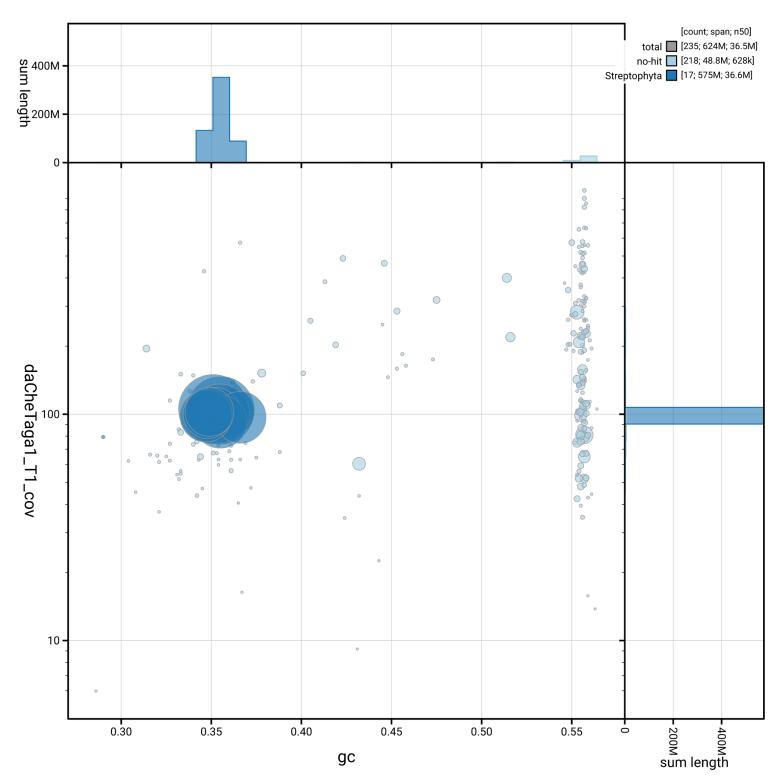


Distribution of k-mer counts per copy numbers found in asm



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

## Post-curation contamination screening



hap1. 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	94x	154x

#### Assembly pipeline

# Curation pipeline

Submitter: Camilla Santos Affiliation: WSI

Date and time: 2024-10-15 13:04:28 CEST