ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	40178
ToLID	**bAleGra1**
Species	Alectoris graeca
Class	Aves
Order	Galliformes

Genome Traits	Expected	Observed
Haploid size (bp)	1,015,215,291	1,114,622,420
Haploid Number	39 (source: direct)	40
Ploidy	2 (source: ancestor)	2
Sample Sex	ZZ	ZZ

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 7.7.Q65

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

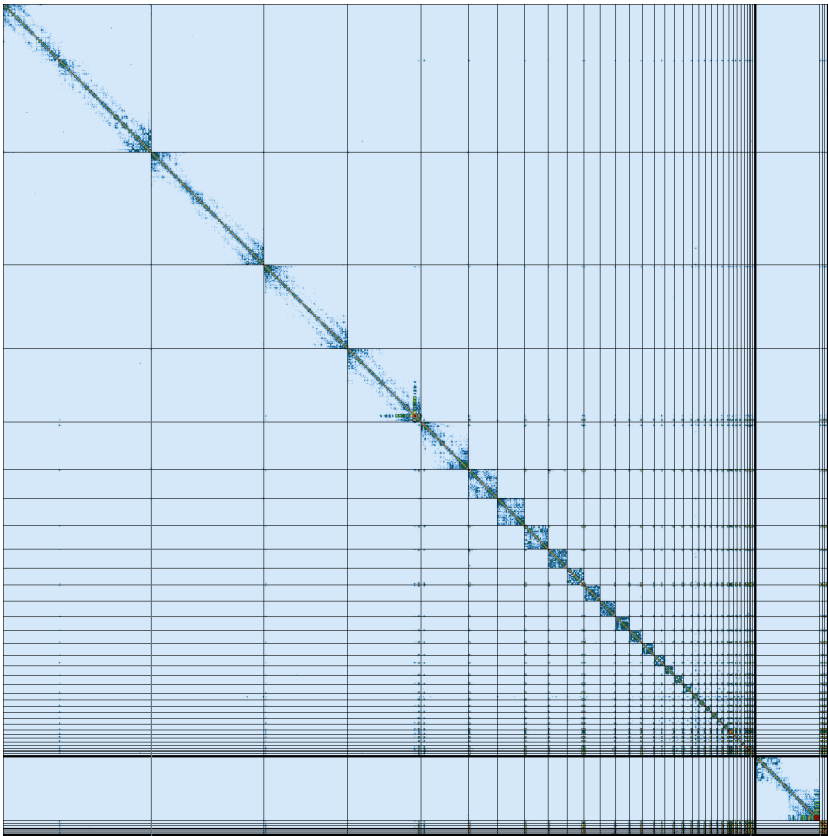. Observed Haploid Number is different from Expected

Curator notes

. Interventions/Gb: None
. Contamination notes: "No presence of contaminants."
. Other observations: "purging was manually done to avoid removing of large fractions of microchromosomes, guided by purge_dups dups.bed file"

Quality metrics table

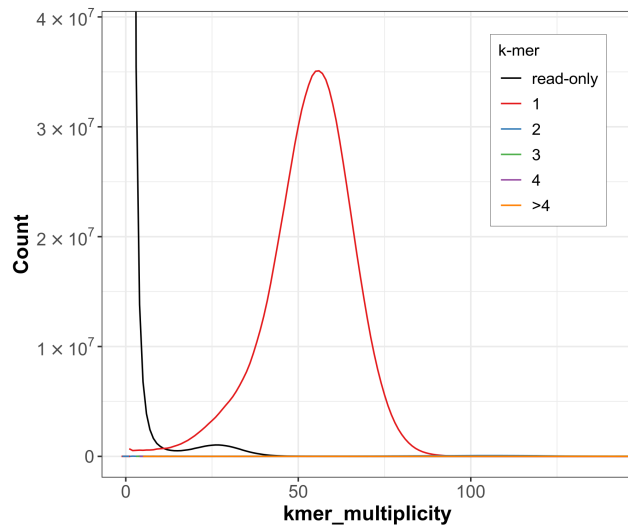| Metrics	Pre-curation pri	Curated pri
Total bp	1,131,325,264	1,114,622,420
GC %	42.08	41.99
Gaps/Gbp	0	133.68
Total gap bp	0	29,800
Scaffolds	379	119
Scaffold N50	43,679,502	97,991,491
Scaffold L50	8	4
Scaffold L90	45	20
Contigs	379	268
Contig N50	43,679,502	43,679,502
Contig L50	8	8
Contig L90	45	42
QV	65.2645	65.8101
Kmer compl.	98.0477	98.0041
BUSCO sing.	98.4%	98.5%
BUSCO dupl.	0.3%	0.2%
BUSCO frag.	0.7%	0.7%
BUSCO miss.	0.7%	0.7%

BUSCO: 5.8.3 (euk_genome_min, miniprot) / Lineage: aves_odb12 (genomes:80, BUSCOs:6251)
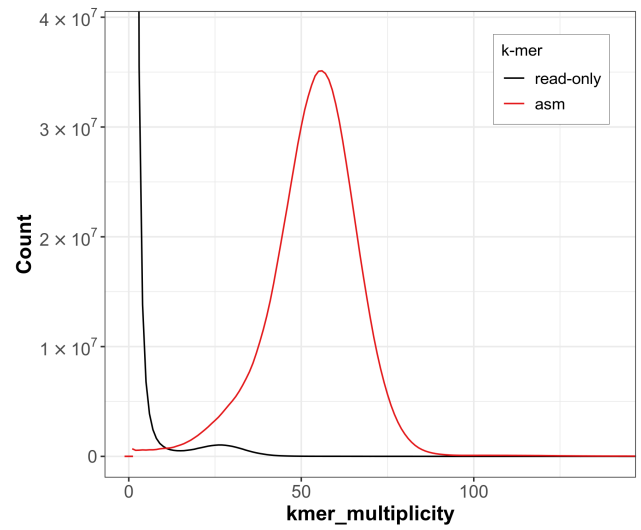
HiC contact map of curated assembly

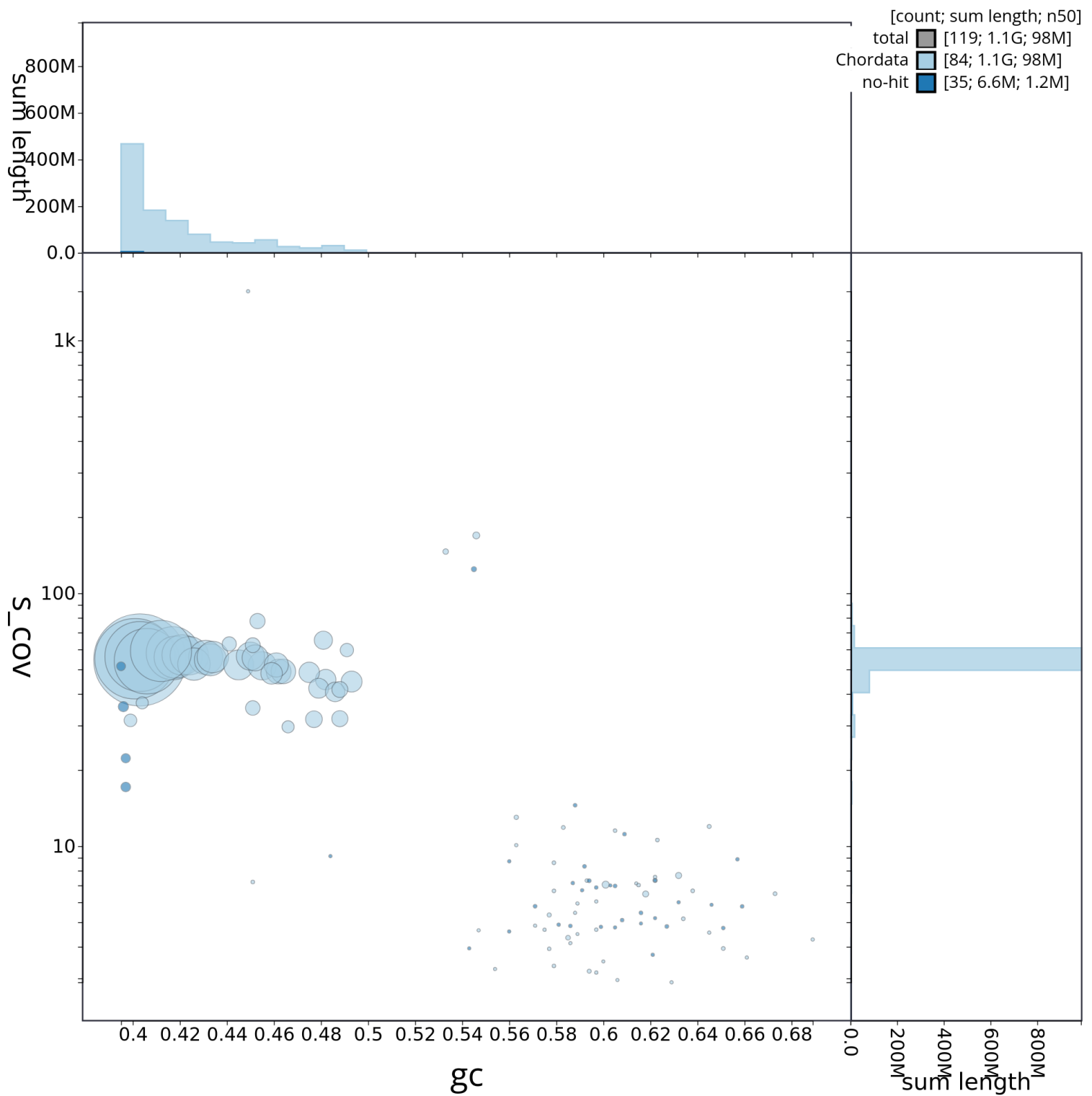**pri** [LINK]

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

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	HiFi	Bionano	OmniC
Coverage	53x	NA	143x

Assembly pipeline

- **Hifiasm**
    |_ *ver:* 0.25.0-r726
    |_ *key param:* HiC
    |_ *key param:* l3
- **purge_dups**
    |_ *ver:* 1.2.5
    |_ *key param:* NA
- **YaHS**
    |_ *ver:* 1.2.2
    |_ *key param:* NA
- **MicroFinder**
    |_ *ver:* 0.1
    |_ *key param:* NA

Curation pipeline

- **GRIT_Rapid**
    |_ *ver:* 1a3d79a8
    |_ *key param:* NA
- **HiGlass**
    |_ *ver:* 0.10.4
    |_ *key param:* NA

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