

ERGA Assembly Report

v24.09.10

Tags: ERGA-Pilot

TxID	136121
ToLID	daLauAzor1
Species	Laurus azorica
Class	Magnoliopsida
Order	Lurales

Genome Traits	Expected	Observed
Haploid size (bp)	1,490,853,484	1,408,321,788
Haploid Number	24 (source: direct)	13
Ploidy	2 (source: ancestor)	4
Sample Sex	XXXY	XXXY

EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 7.8.Q61

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

- . Observed Haploid Number is different from Expected
- . Observed Ploidy is different from Expected
- . Kmer completeness value is less than 90 for pri
- . BUSCO single copy value is less than 90% for pri
- . BUSCO duplicated value is more than 5% for pri
- . Assembly length loss > 3% for pri

Curator notes

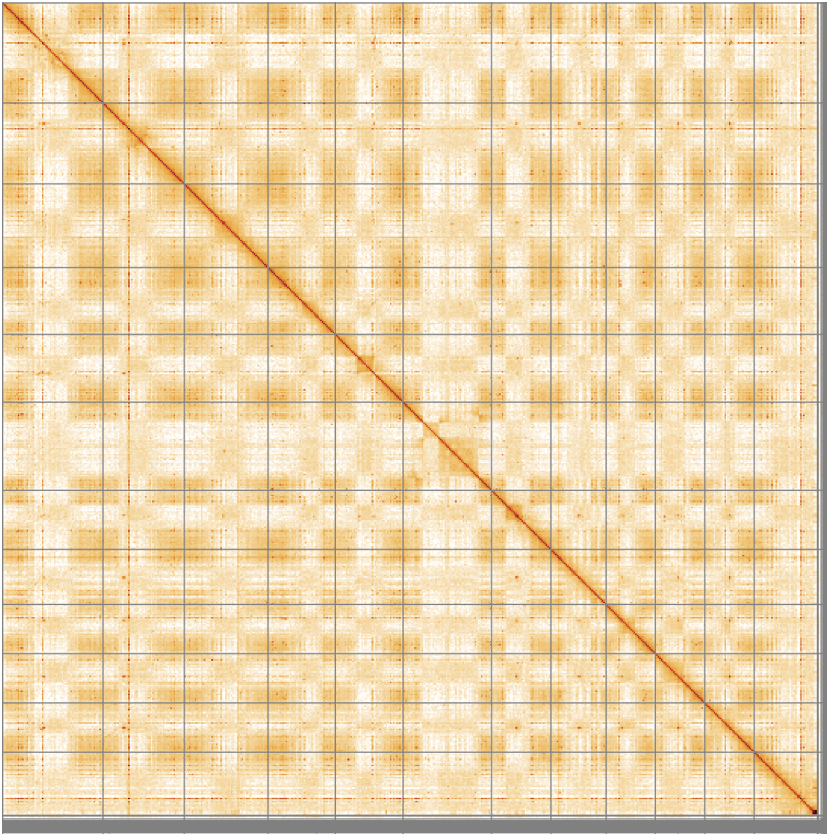
- . Interventions/Gb: 1000
- . Contamination notes: "Lots of contaminants removed"
- . Other observations: "Scaffold six likely contains both X and Y - having trouble separating. Very difficult to to get a single et of chromosomes"

Quality metrics table

Metrics	Pre-curation pri	Curated pri
Total bp	1,649,185,159	1,408,321,788
GC %	41.47	41.17
Gaps/Gbp	110.96	122.84
Total gap bp	36,600	27,300
Scaffolds	298	247
Scaffold N50	72,886,773	114,794,409
Scaffold L50	8	5
Scaffold L90	22	11
Contigs	481	420
Contig N50	17,123,649	15,460,700
Contig L50	29	27
Contig L90	90	84
QV	61.7293	61.3563
Kmer compl.	66.6739	62.8579
BUSCO sing.	87.0%	88.7%
BUSCO dupl.	8.3%	6.5%
BUSCO frag.	1.7%	1.7%
BUSCO miss.	3.0%	3.1%

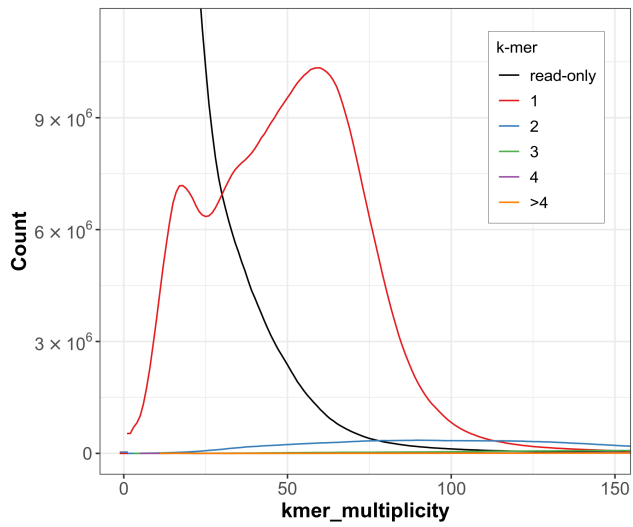
BUSCO 5.7.1 Lineage: eudicots_odb10 (genomes:31, BUSCOs:2326)

HiC contact map of curated assembly

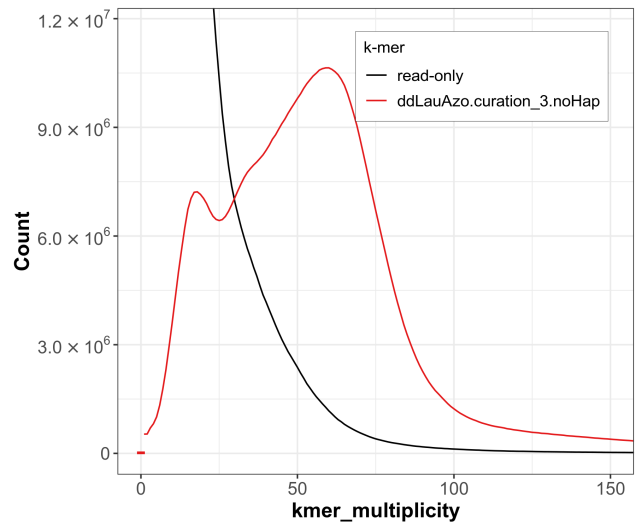


pri [\[LINK\]](#)

K-mer spectra of curated assembly

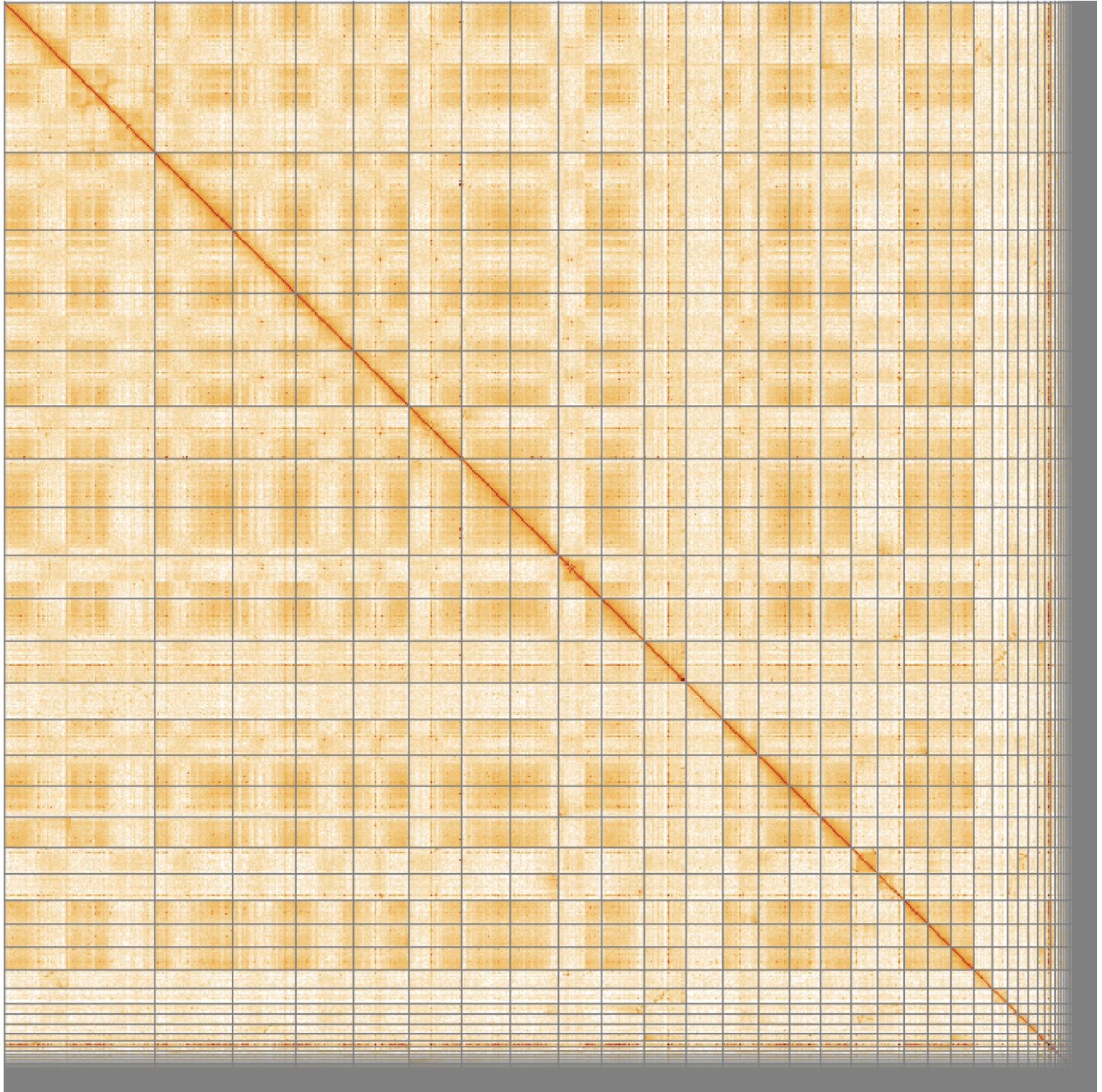


Distribution of k-mer counts per copy numbers found in asm



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

Pre-curation Hi-C map



pri. Pre-curation Hi-\c map.

Data profile

Data	HiFi	HiC
Coverage	40x	10x

Assembly pipeline

- **Hifiasm**
 - |_ *ver*: 0.19.4
 - |_ *key param*: HiC
 - |_ *key param*: 10
- **purge_dups**
 - |_ *ver*: 1.2.6
 - |_ *key param*: NA
- **YaHS**
 - |_ *ver*: 1.1
 - |_ *key param*: NA

Curation pipeline

- **GRIT_Rapid**
 - |_ *ver*: 2.0
 - |_ *key param*: NA
- **HiGlass**
 - |_ *ver*: 1.0
 - |_ *key param*: NA

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