ERGA Assembly Report

v24.10.15

Tags: ERGA-Pilot

TxID	136121
ToLID	**dmLauAzor1**
Species	Laurus azorica
Class	Magnoliopsida
Order	Laurales

Genome Traits	Expected	Observed
Haploid size (bp)	1,595,786,563	1,403,283,976
Haploid Number	24 (source: direct)	13
Ploidy	2 (source: ancestor)	2
Sample Sex	XXXY	NA

EBP metrics summary and curation notes

Obtained EBP quality metric for : 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 sex is different from Sample sex

. Kmer completeness value is less than 90 for
. BUSCO single copy value is less than 90% for
. BUSCO duplicated value is more than 5% for
. Assembly length loss > 3% for

Curator notes
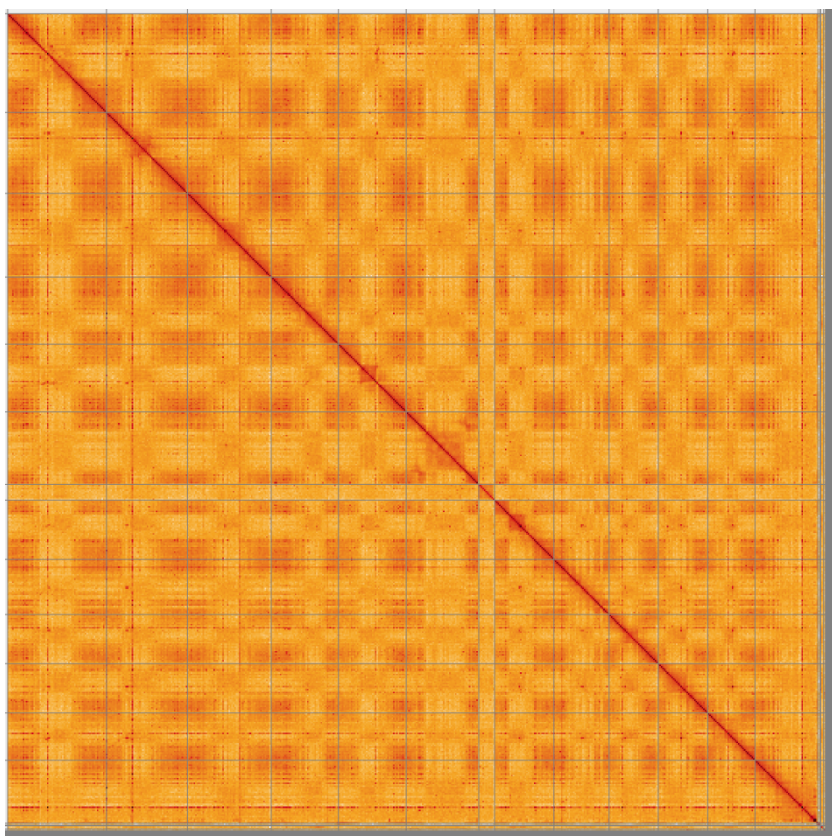
. Interventions/Gb: 1000
. Contamination notes: "Many contaminants removed"
. Other observations: "The best we can do given the poor Hi-C signal"

Quality metrics table

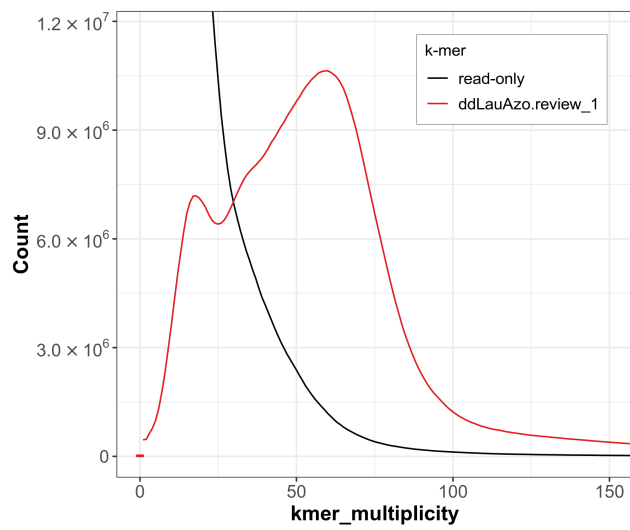| Metrics	Pre-curation <pri>	Curated <pri>
Total bp	1,649,185,159	1,403,283,976
GC %	41.47	41.16
Gaps/Gbp	110.96	123.99
Total gap bp	36,600	27,300
Scaffolds	298	193
Scaffold N50	72,886,773	113,755,423
Scaffold L50	8	6
Scaffold L90	22	11
Contigs	481	367
Contig N50	17,123,649	15,460,700
Contig L50	29	27
Contig L90	90	84
QV	61.7293	61.4311
Kmer compl.	66.6739	62.7795
BUSCO sing.	84.3%	88.8%
BUSCO dupl.	11.2%	6.5%
BUSCO frag.	1.5%	1.6%
BUSCO miss.	3.0%	3.1%

BUSCO: 5.8.2 (euk_genome_min, miniprot) / Lineage: eudicots_odb10 (genomes:31, BUSCOs:2326)
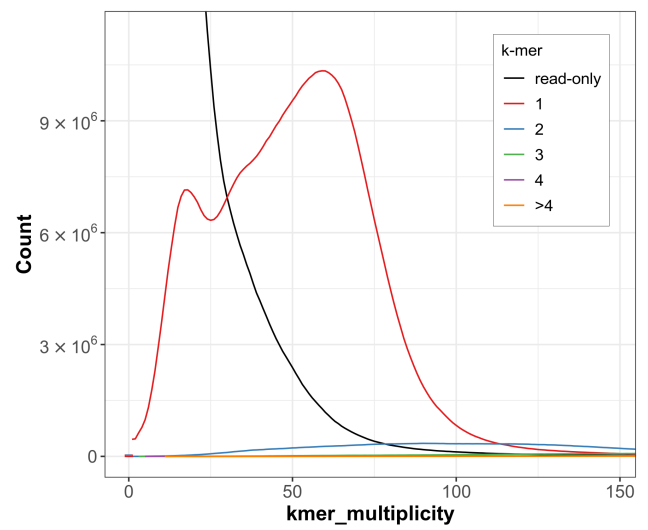
HiC contact map of curated assembly
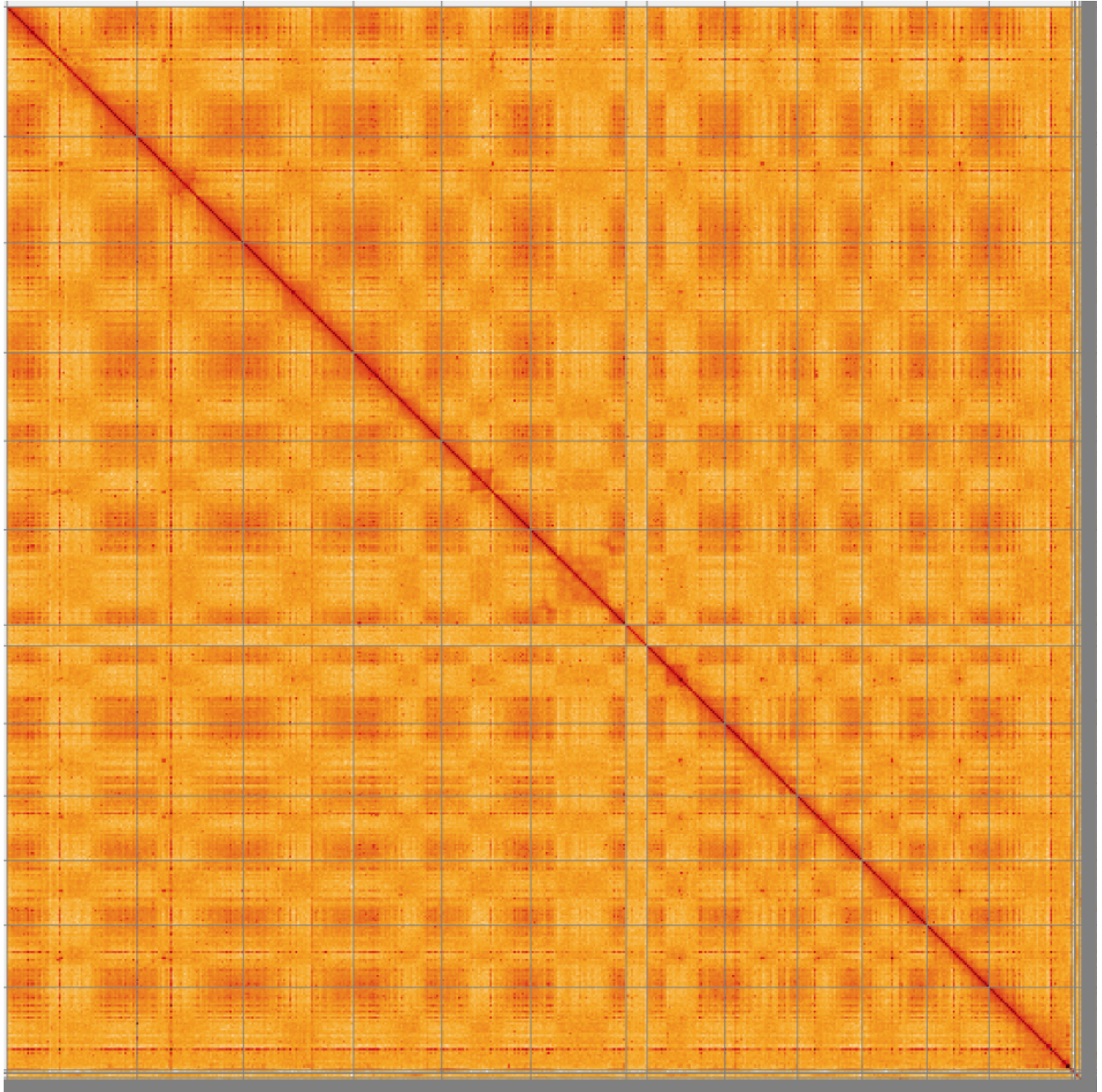

[LINK]

K-mer spectra of curated assembly

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

. 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	HiC
Coverage	40x	10x

Assembly pipeline

- **HiFiasm**
    |_ *ver:* 0.19.4
    |_ *key param:* HiC
    |_ *key param:* l0
- **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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