ERGA Assembly Report

v24.09.10

Tags: ATLASea[INVALID TAG]

TxID	327821
ToLID	**fAntAnt1.2**
Species	Anthias anthias
Class	Actinopteri
Order	Perciformes

Genome Traits	Expected	Observed
Haploid size (bp)	779,767,768	796,149,257
Haploid Number	24 (source: ancestor)	24
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 7.7.Q63

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

. Kmer completeness value is less than 90 for collapsed

Curator notes

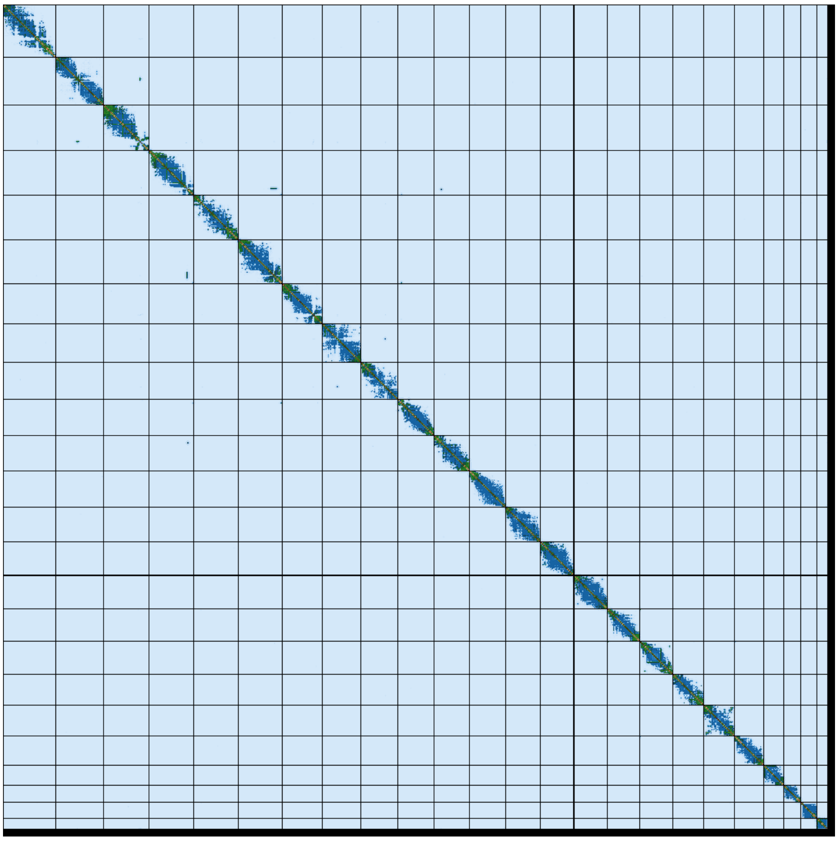
. Interventions/Gb: 146
. Contamination notes: "No contaminant detected "
. Other observations: "NA "

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	809,888,842	796,149,257
GC %	40.78	40.79
Gaps/Gbp	0	129.37
Total gap bp	0	14,500
Scaffolds	102	66
Scaffold N50	29,765,556	34,740,752
Scaffold L50	13	10
Scaffold L90	31	20
Contigs	102	169
Contig N50	29,765,556	17,256,112
Contig L50	13	16
Contig L90	31	56
QV	49.2966	63.1596
Kmer compl.	77.2819	77.0929
BUSCO sing.	96.2%	97.1%
BUSCO dupl.	1.8%	0.8%
BUSCO frag.	0.2%	0.2%
BUSCO miss.	1.8%	1.9%

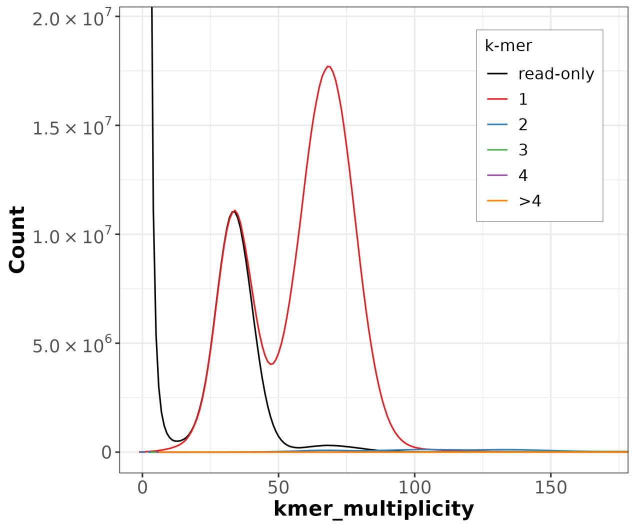
BUSCO 5.4.3 Lineage: actinopterygii_odb10 (genomes:26, BUSCOs:3640)

HiC contact map of curated assembly

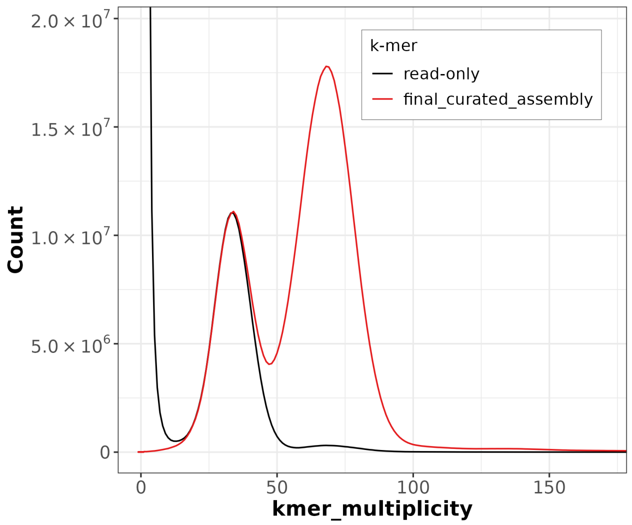


collapsed [LINK]

K-mer spectra of curated assembly

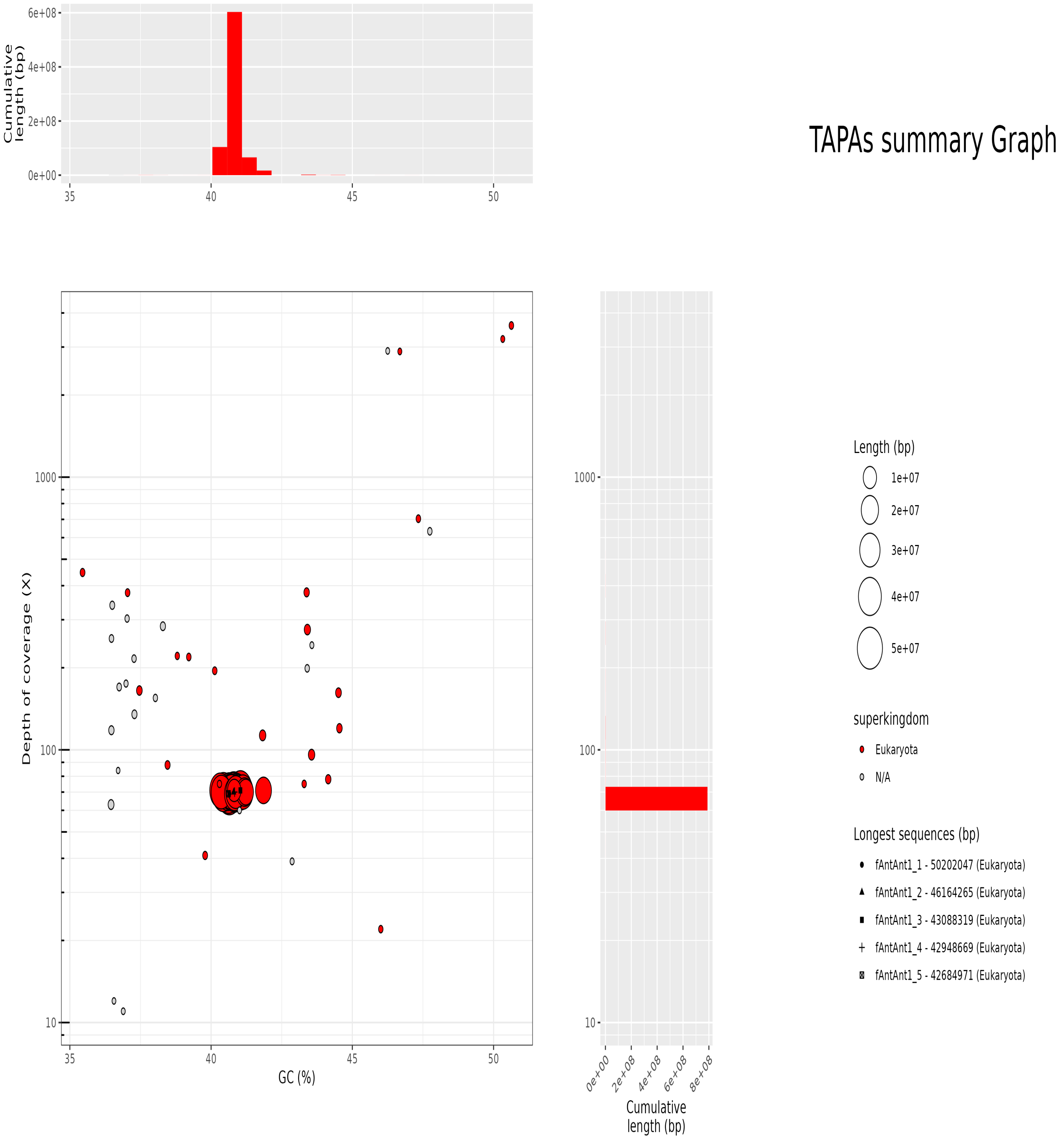


Distribution of k-mer counts per copy numbers found in asm



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 (4-enz)
Coverage	69	62

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

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Date and time: 2024-09-24 18:55:44 CEST