

ERGA Assembly Report

v24.10.15

Tags: Other[INVALID TAG]

TxID	8265
ToLID	fPseAme1
Species	Pseudopleuronectes americanus
Class	Actinopteri
Order	Pleuronectiformes

Genome Traits	Expected	Observed
Haploid size (bp)	458,814,187	574,184,296
Haploid Number	24 (source: direct)	24
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 6.7.Q54

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

- . Observed Haploid size (bp) has >20% difference with Expected
- . More than 1000 gaps/Gbp for collapsed

Curator notes

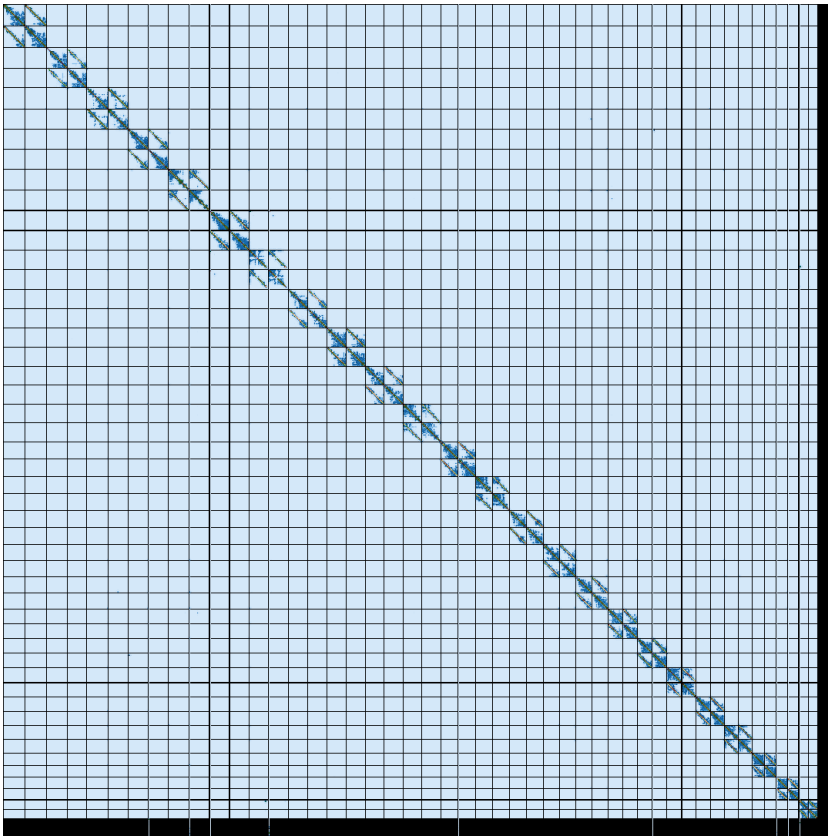
- . Interventions/Gb: 47
- . Contamination notes: ""
- . Other observations: "The assembly of Pseudopleuronectes americanus (fPseAme1) was generated as part of the Vertebrate Genomes Project (<https://vertebrategenomesproject.org/>). Both haplotypes were analyzed and manually improved using Pretext "

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	572,201,698	574,184,296
GC %	42.32	42.29
Gaps/Gbp	1,649.77	1,720.7
Total gap bp	188,800	197,600
Scaffolds	417	386
Scaffold N50	23,518,535	25,873,033
Scaffold L50	11	11
Scaffold L90	22	22
Contigs	1,361	1,374
Contig N50	1,967,681	2,168,314
Contig L50	78	73
Contig L90	453	446
QV	54.8872	54.7491
Kmer compl.	90.2596	90.1814
BUSCO sing.	95.5%	95.5%
BUSCO dupl.	1.0%	0.9%
BUSCO frag.	0.8%	0.7%
BUSCO miss.	2.7%	2.9%

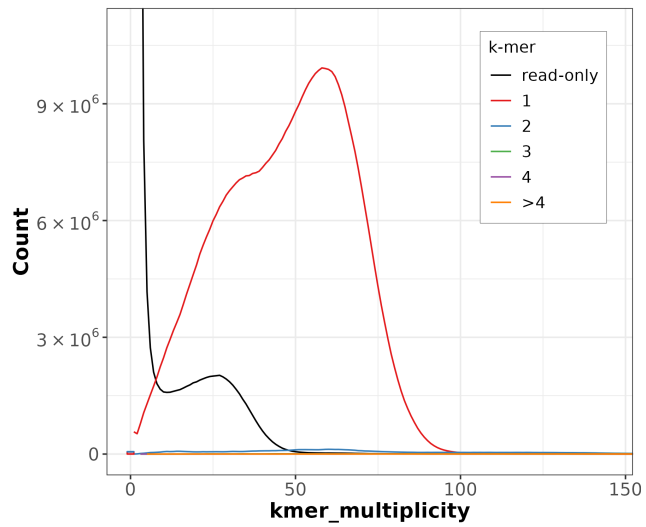
BUSCO: 5.8.2 (euk_genome_met, metaeuk) / Lineage: actinopterygii_odb12 (genomes:75, BUSCOs:7207)

HiC contact map of curated assembly

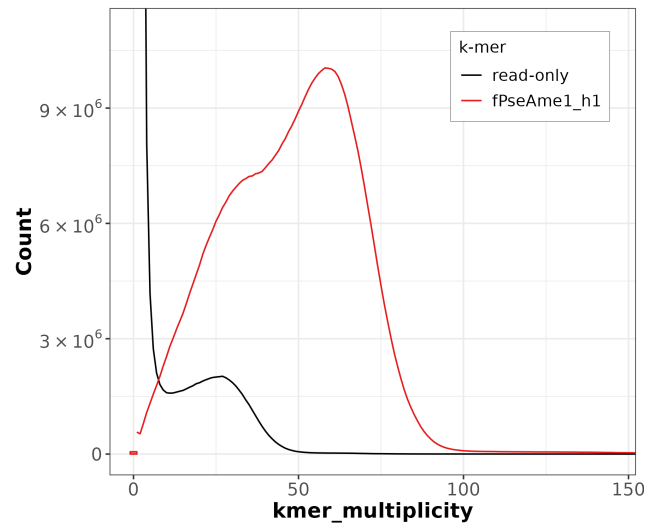


collapsed [\[LINK\]](#)

K-mer spectra of curated assembly

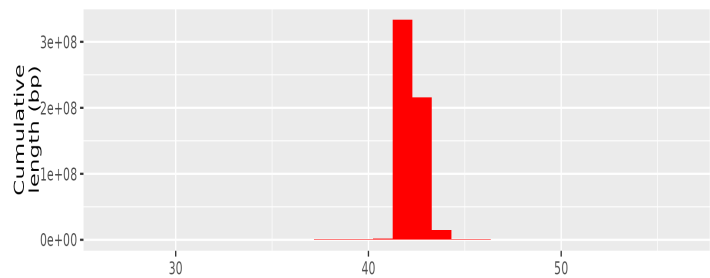


Distribution of k-mer counts per copy numbers found in asm

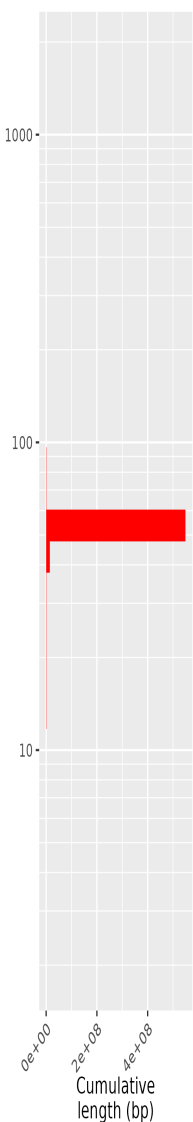


Distribution of k-mer counts coloured by their presence in reads/assemblies

Post-curation contamination screening



TAPAs summary Graph



- superkingdom
- Bacteria
 - Eukaryota
 - N/A
- Length (bp)
- 1e+07
 - 2e+07
- Longest sequences (bp)
- fPseAme1_1 - 29994057 (Eukaryota)
 - ▲ fPseAme1_2 - 29187158 (Eukaryota)
 - fPseAme1_3 - 28530055 (Eukaryota)
 - + fPseAme1_5 - 27878979 (Eukaryota)
 - ▣ fPseAme1_4 - 27862221 (Eukaryota)

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
Coverage	NA	NA

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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