ERGA Assembly Report

v24.10.15

Tags: ATLASea[INVALID TAG]

TxID	39374	
ToLID	eeSphGran1	
Species	Sphaerechinus granularis	
Class	Echinoidea	
Order	Temnopleuroida	

Genome Traits	Expected	Observed
Haploid size (bp)	748,755,816	992,419,902
Haploid Number	17 (source: direct)	20
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 6.7.Q55

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

- . Observed Haploid size (bp) has >20% difference with Expected
- . Observed Haploid Number is different from Expected

Curator notes

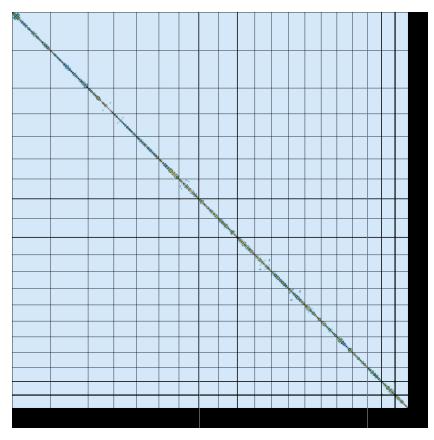
- . Interventions/Gb: 111
- . Contamination notes: "only 2 bacterial contigs were removed "
- . Other observations: "18.8Mb were tagged as haplotigs and removed "

Quality metrics table

Pre-curation collapsed	Curated collapsed
1,011,272,610	992,419,902
36.42	36.41
870.19	895.79
88,000	93,600
352	306
42,375,516	44,956,304
9	9
21	19
1,232	1,195
1,643,155	1,661,000
195	187
658	633
43.3458	55.8817
72.837	73.349
94.3%	
3.0%	
1.3%	
1.4%	
	collapsed 1,011,272,610 36.42 870.19 88,000 352 42,375,516 9 21 1,232 1,643,155 195 658 43.3458 72.837 94.3% 3.0% 1.3%

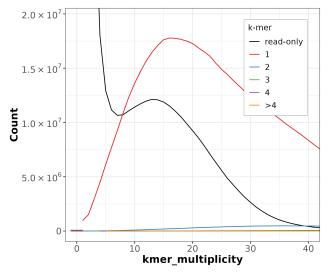
BUSCO: 5.4.3 (euk_genome_met, metaeuk) / Lineage: metazoa_odb10 (genomes:65, BUSCOs:954)

HiC contact map of curated assembly

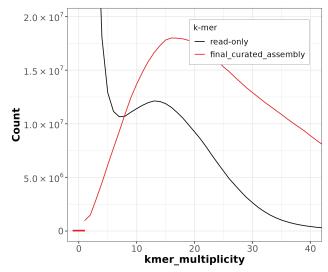


collapsed [LINK]

K-mer spectra of curated assembly

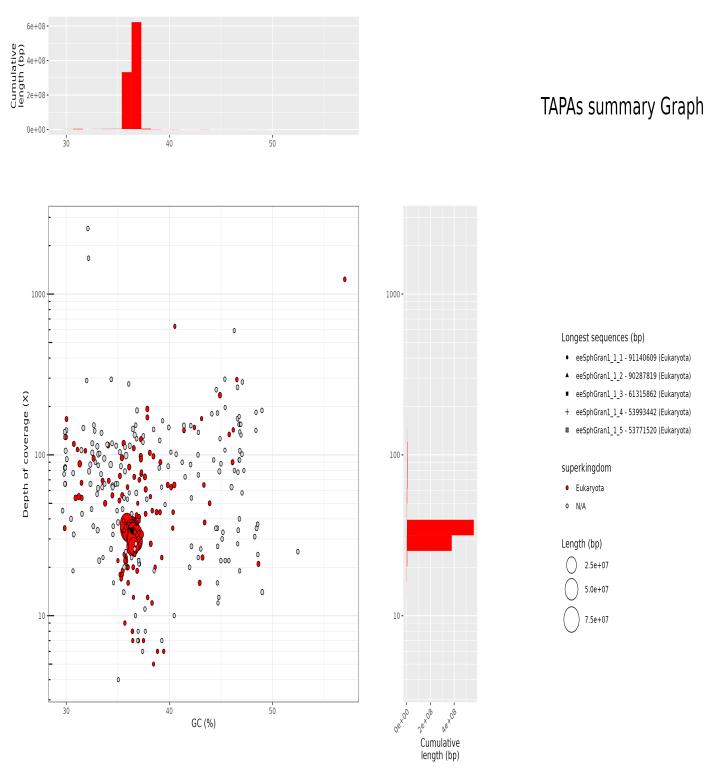


Distribution of k-mer counts per copy numbers found in asm



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

Post-curation contamination screening

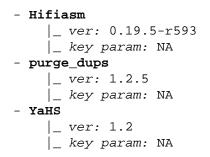


collapsed. Bubble plot circles are scaled by sequence length, positioned by coverage and GC proportion, and coloured by taxonomy. Histograms show total assembly length distribution on each axis.

Data profile

Data	PACBIO Hifi	Arima
Coverage	40	70

Assembly pipeline



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: 2024-12-13 20:54:25 CET