#### 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

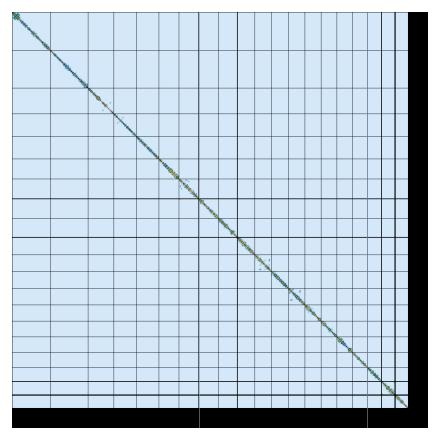
- . Interventions/Gb: 111
- . Contamination notes: "only 2 bacterial contigs were removed "
- . Other observations: "18.8Mb were tagged as haplotigs and removed "

# 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%

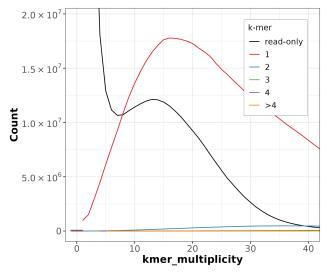
BUSCO: 5.4.3 (euk\_genome\_met, metaeuk) / Lineage: metazoa\_odb10 (genomes:65, BUSCOs:954)

# HiC contact map of curated assembly

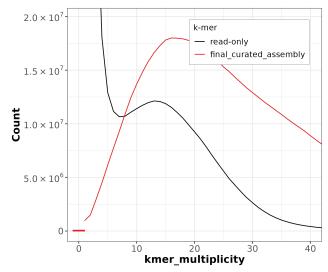


collapsed [LINK]

## K-mer spectra of curated assembly

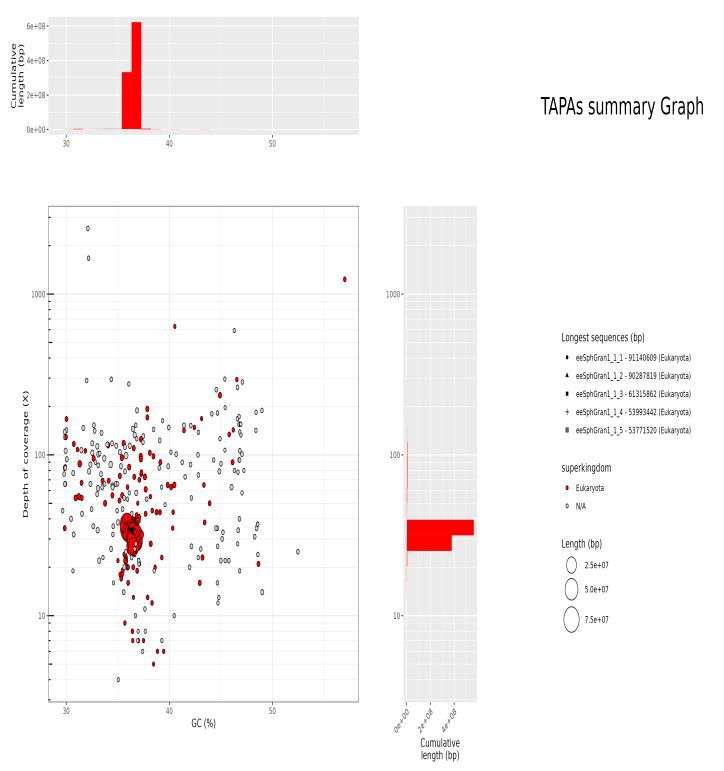


Distribution of k-mer counts per copy numbers found in asm



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

### Post-curation contamination screening

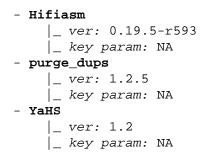


**collapsed.** Bubble plot circles are scaled by sequence length, positioned by coverage and GC proportion, and coloured by taxonomy. Histograms show total assembly length distribution on each axis.

### 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

Submitter: Caroline Belser Affiliation: Genoscope

Date and time: 2024-12-13 20:54:25 CET