

ERGA Assembly Report

v24.09.10

Tags: ATLASea [INVALID TAG]

TxID	85702
ToLID	wsSabSpa11.2
Species	Sabella spallanzanii
Class	Polychaeta
Order	Sabellida

Genome Traits	Expected	Observed
Haploid size (bp)	1,234,538,529	1,374,264,074
Haploid Number	4 (source: ancestor)	14
Ploidy	2 (source: ancestor)	2
Sample Sex	Unknown	Unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 7.8.Q68

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

- . Observed Haploid Number is different from Expected
- . Kmer completeness value is less than 90 for collapsed

Curator notes

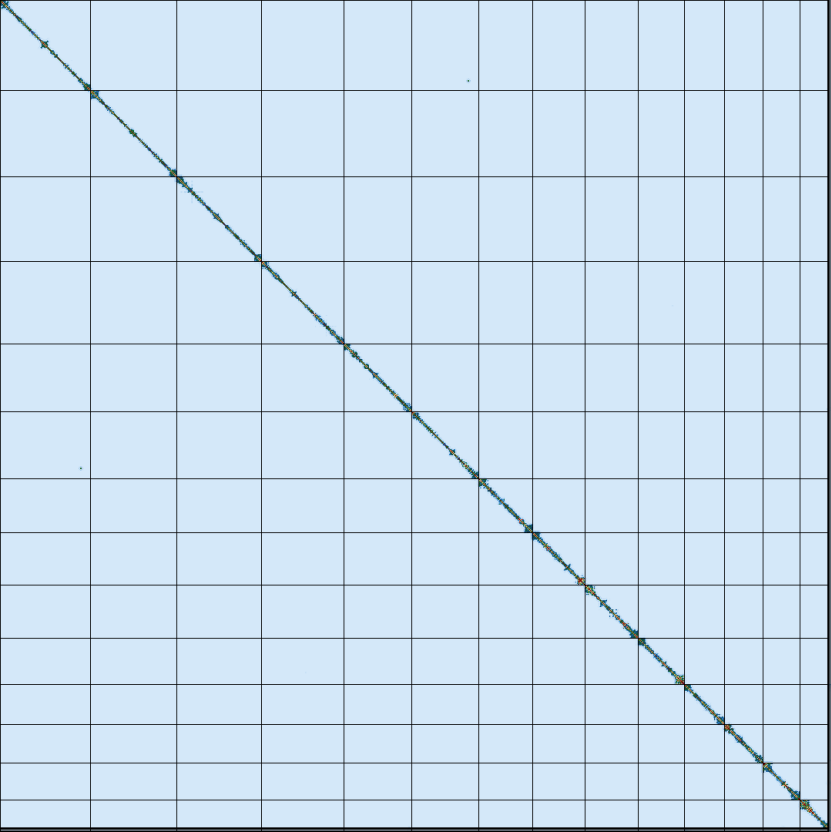
- . Interventions/Gb: 32
- . Contamination notes: ""
- . Other observations: ""

Quality metrics table

Metrics	Pre-curation collapsed	Curated collapsed
Total bp	1,375,297,849	1,374,264,074
GC %	36.96	36.96
Gaps/Gbp	27.63	30.56
Total gap bp	3,800	4,700
Scaffolds	38	37
Scaffold N50	110,293,779	110,293,779
Scaffold L50	6	6
Scaffold L90	12	12
Contigs	76	79
Contig N50	47,745,982	47,745,982
Contig L50	11	11
Contig L90	31	32
QV	45.7794	68.3837
Kmer compl.	74.4312	74.3667
BUSCO sing.	94.1%	94.1%
BUSCO dupl.	0.4%	0.4%
BUSCO frag.	3.6%	3.6%
BUSCO miss.	1.9%	1.9%

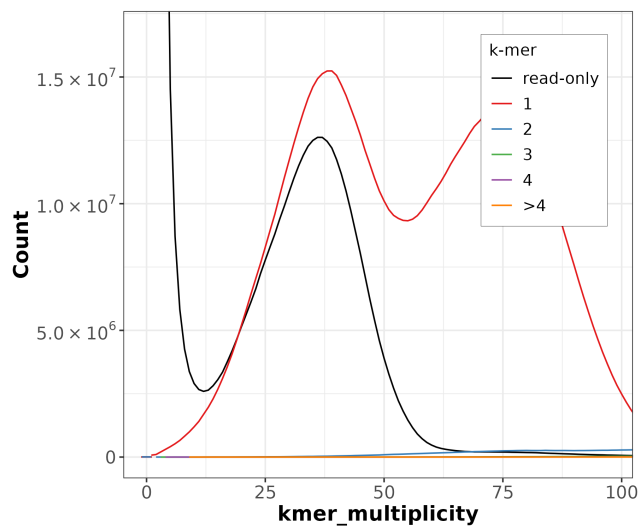
BUSCO 5.4.3 Lineage: metazoa_odb10 (genomes:65, BUSCOs:954)

HiC contact map of curated assembly

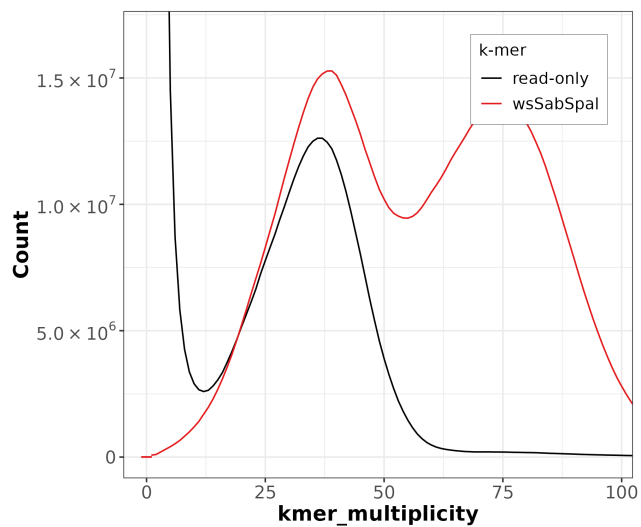


collapsed [\[LINK\]](#)

K-mer spectra of curated assembly

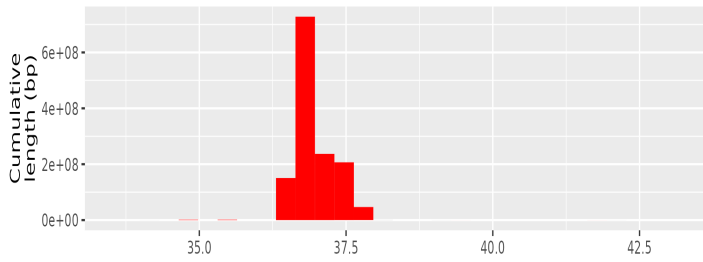


Distribution of k-mer counts per copy numbers found in asm

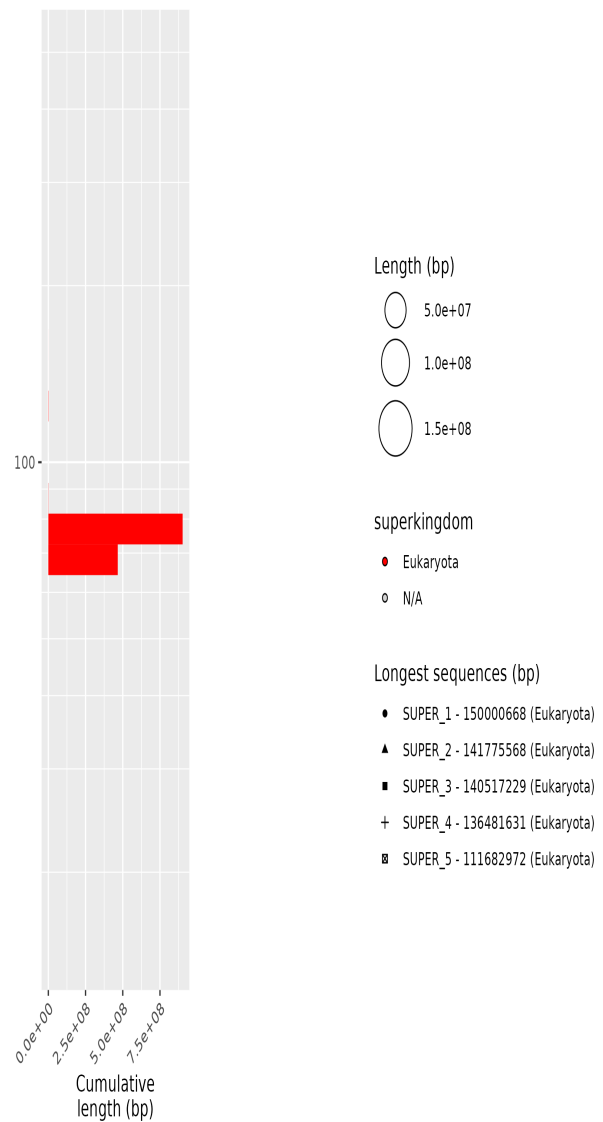
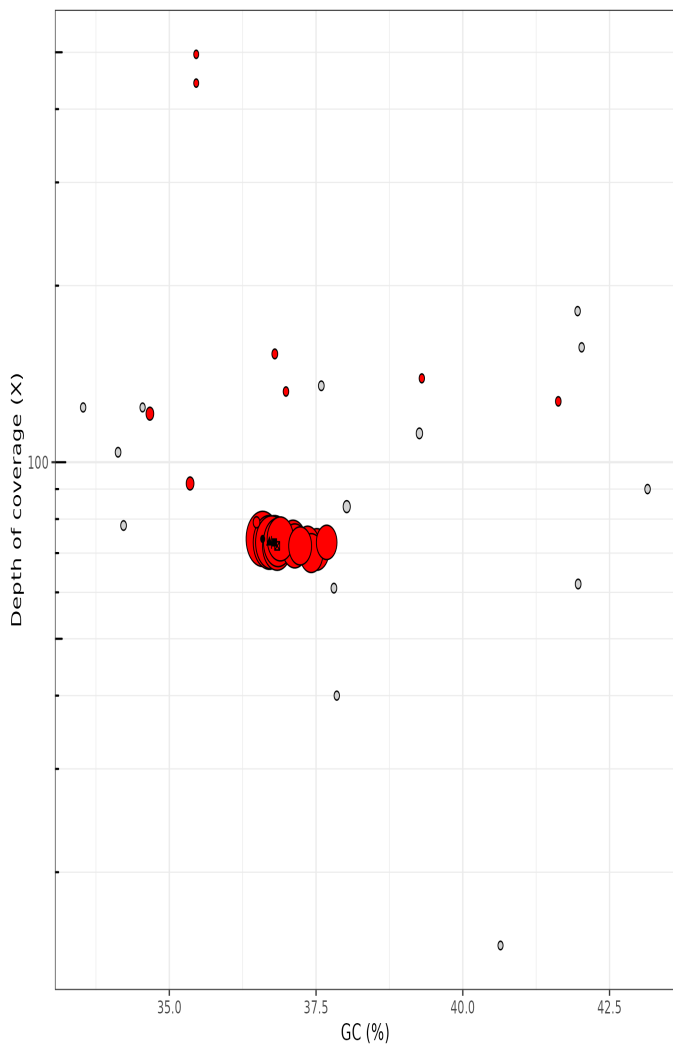


Distribution of k-mer counts coloured by their presence in reads/assemblies

Post-curation contamination screening



TAPAs summary Graph



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	Omic
Coverage	71	26

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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