#### ERGA Assembly Report

v24.04.03 beta

Tags: ERGA-BGE

TxID	204053	
ToLID	qmScyLatu1	
Species	Scyllarides latus	
Class	Malacostraca	
Order	Decapoda	

Genome Traits	Expected	Observed
Haploid size (bp)	4,658,004,081	4,733,579,267
Haploid Number	70 (source: ancestor)	70
Ploidy	2 (source: ancestor)	2
Sample Sex	Ū	U

#### EBP metrics summary and curation notes

Obtained EBP quality metric for pri: 6.7.Q56

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

. Assembly length loss > 3% for pri

#### Curator notes

- . Interventions/Gb: 278
- . Contamination notes: "Contamination report for assembly labelled hap1; Total length of scaffolds removed: 329,932 (0.0 %); Scaffolds removed: 6 (0.1 %); Largest scaffold removed: (130,169); FCS-GX contaminant species (number of scaffolds; total length of scaffolds): Pseudomonas coleopterorum, g-proteobacteria (2; 195,759); Mariniblastus fucicola, bacteria (1; 36,546); Mitochondrion (3; 97,627)"
- . Other observations: "Assembly was Hi-C phased; The exact order and orientation of the contigs on chromosome 1 (66,839 90,907 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 6 (84,960 70,000 & 107,580 110,190 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 7 (40,500 45,500 & 57,850 73,500 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 9 (61,000 80,000 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 11 (0 15,000 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 12 (2,000 18,800 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 14 (54,300 62,000 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 18 (0 5,000 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 18 (0 5,000 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 21 (28,700 41,300 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 21 (28,700 41,300 Kbp) are unknown; The exact order and orientation of the

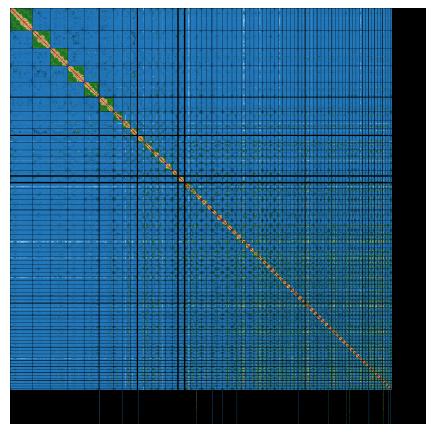
orientation of the contigs on chromosome 23 (0 - 16,300 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 27 (13,000 - 24,000 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 33 (17,500 - 39,500 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 34 (10,700 - 20,700 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 36 (5,800 - 16,000 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 41 (2,700 - 25,800 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 45 (0 - 10,800 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 48 (21,300 - 35,300 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 60 (29,000 - 8,000 & 19,500 - 36,246 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 64 (22,000 - 32,500 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 67 (2,300 - 8,000 & 19,500 - 26,000 Kbp) are unknown"

## Quality metrics table

Pre-curation pri	Curated pri
5,323,139,245	4,733,579,267
42.84	42.99
622	852.42
662,200	806,990
10,129	4,456
40,182,599	56,908,864
38	23
946	70
13,440	8,491
1,599,401	1,680,176
920	821
4,030	3,148
56.7	56.8
98.92	98.89
92.9%	92.8%
1.6%	1.4%
3.6%	3.6%
1.9%	2.2%
	pri 5,323,139,245 42.84 622 662,200 10,129 40,182,599 38 946 13,440 1,599,401 920 4,030 56.7 98.92 92.9% 1.6% 3.6%

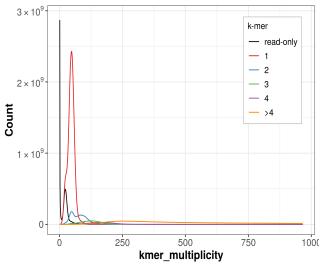
BUSCO 5.3.0 Lineage: arthropoda\_odb10 (genomes:90, BUSCOs:1013)

# HiC contact map of curated assembly

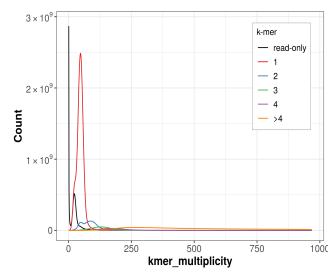


pri [LINK]

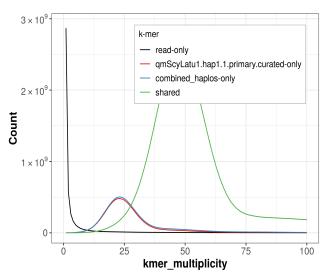
### K-mer spectra of curated assembly



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

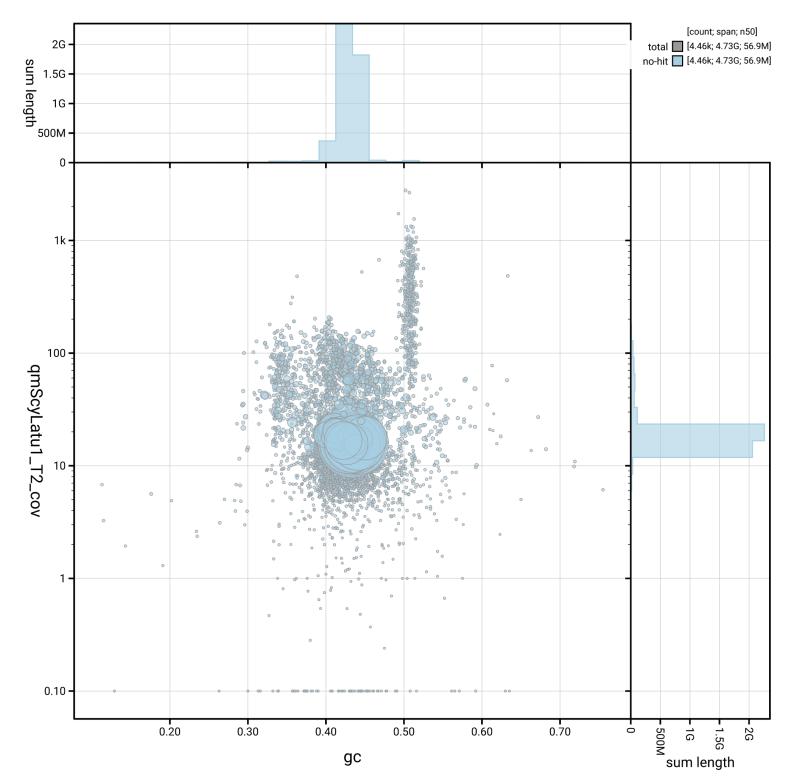


Distribution of k-mer counts per copy numbers found in asm



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

## Post-curation contamination screening



pri. 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 v2
Coverage	47x	175x

#### Assembly pipeline

```
- hifiasm-hic

|_ ver: 0.19.8-r603

|_ key param: --h1/--h2

- yahs

|_ ver: 1.2.2

|_ key param: NA
```

### Curation pipeline

Submitter: Karen Brooks Affiliation: WSI

Date and time: 2025-05-09 11:54:41 CEST