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	4,727,697,021
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: 238
- . 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

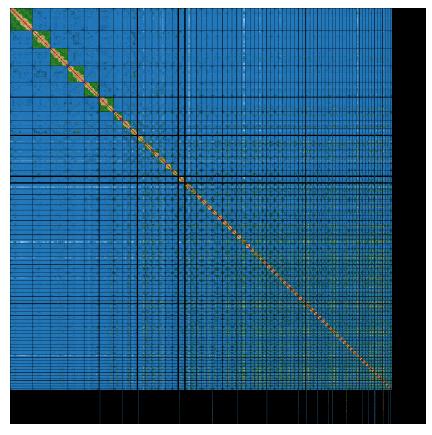
orientation of the contigs on chromosome 23 (0 - 16,300 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 27 (13,000 - 24,000 Kbp) are unknown; The exact order and orientation of the contigs on chromosome 33 (17,500 - 39,500 Kbp) are unknown; The exact order and orientation 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

Metrics	Pre-curation pri	Curated pri
Total bp	5,323,139,245	4,727,697,021
GC %	42.84	43
Gaps/Gbp	622	853.06
Total gap bp	662,200	806,590
Scaffolds	10,129	4,456
Scaffold N50	40,182,599	56,908,864
Scaffold L50	38	23
Scaffold L90	946	70
Contigs	13,440	8,489
Contig N50	1,599,401	1,678,746
Contig L50	920	821
Contig L90	4,030	3,148
QV	56.7	56.8
Kmer compl.	98.92	98.92
BUSCO sing.	92.9%	92.8%
BUSCO dupl.	1.6%	1.4%
BUSCO frag.	3.6%	3.6%
BUSCO miss.	1.9%	2.2%

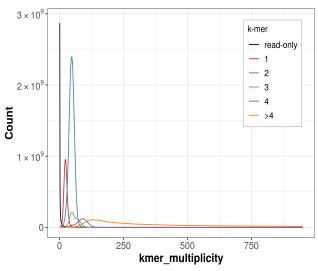
BUSCO 5.3.0 Lineage: arthropoda_odb10 (genomes:90, BUSCOs:1013)

HiC contact map of curated assembly

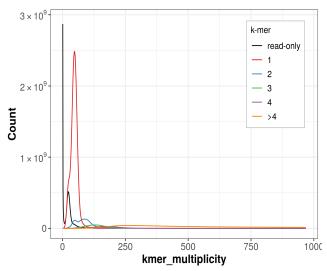


pri [LINK]

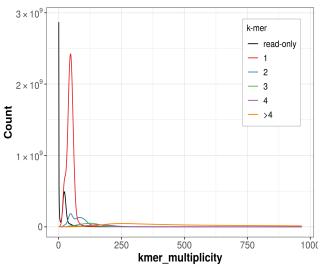
K-mer spectra of curated assembly



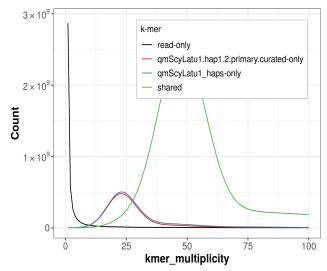
Distribution of k-mer counts per copy numbers found in asm (dipl.)



Distribution of k-mer counts per copy numbers found in qmScyLatul hap1 2 primary curated (hapl.)

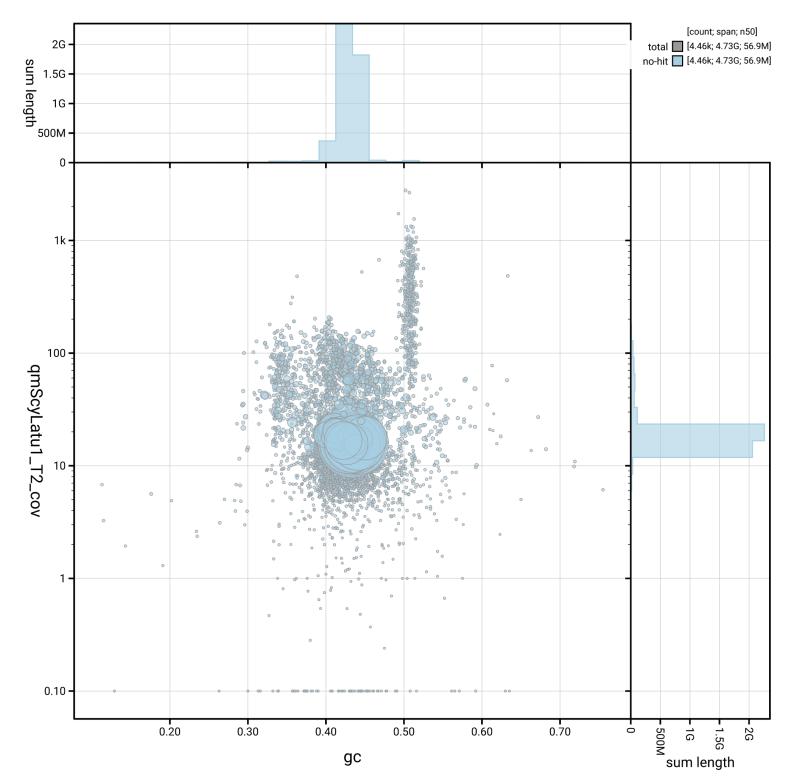


Distribution of k-mer counts per copy numbers found in qmScyLatul_haps (hapl.)



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: 2025-07-01 13:48:06 CEST