ERGA Assembly Report

v24.10.15

Tags: ERGA-BGE

TxID	2068848	
ToLID	qqArtNeph1	
Species	Artema nephilit	
Class	Arachnida	
Order	Araneae	

Genome Traits	Expected	Observed
Haploid size (bp)	1,485,957,015	1,505,847,117
Haploid Number	11 (source: ancestor)	17
Ploidy	2 (source: ancestor)	2
Sample Sex	unknown	unknown

EBP metrics summary and curation notes

Obtained EBP quality metric for collapsed: 7.8.Q69

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

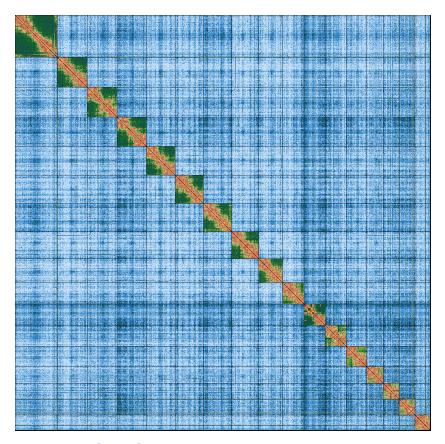
- . Interventions/Gb: None
- . Contamination notes: "Wolbachia endosymbiont removed by FCS-GX"
- . Other observations: ""

Quality metrics table

Pre-curation collapsed	Curated collapsed
1,527,716,421	1,505,847,117
41.58	41.55
39.27	59.77
12,000	18,000
101	47
97,804,034	101,994,854
7	7
16	15
161	137
29,532,000	29,532,000
16	16
49	48
66.1	69.4
88.47	88.16
92.3%	92.7%
5.1%	4.8%
0.6%	0.2%
2.0%	2.2%
	collapsed 1,527,716,421 41.58 39.27 12,000 101 97,804,034 7 16 161 29,532,000 16 49 66.1 88.47 92.3% 5.1% 0.6%

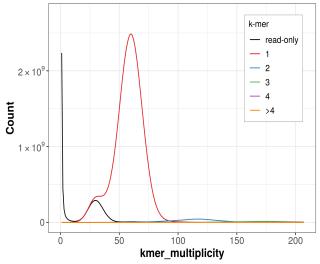
Warning! BUSCO versions or lineage datasets are not the same across results:
BUSCO: 5.8.3 (euk_genome_min, miniprot) / Lineage: arachnida_odb10 (genomes:10, BUSCOs:2934)
BUSCO: 6.0.0 (euk_genome_min, miniprot) / Lineage: arachnida_odb10 (genomes:10, BUSCOs:2934)

HiC contact map of curated assembly

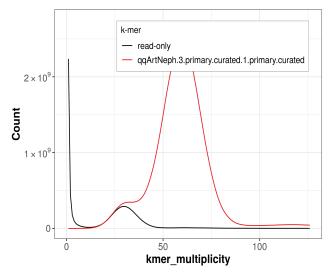


collapsed [LINK]

K-mer spectra of curated assembly

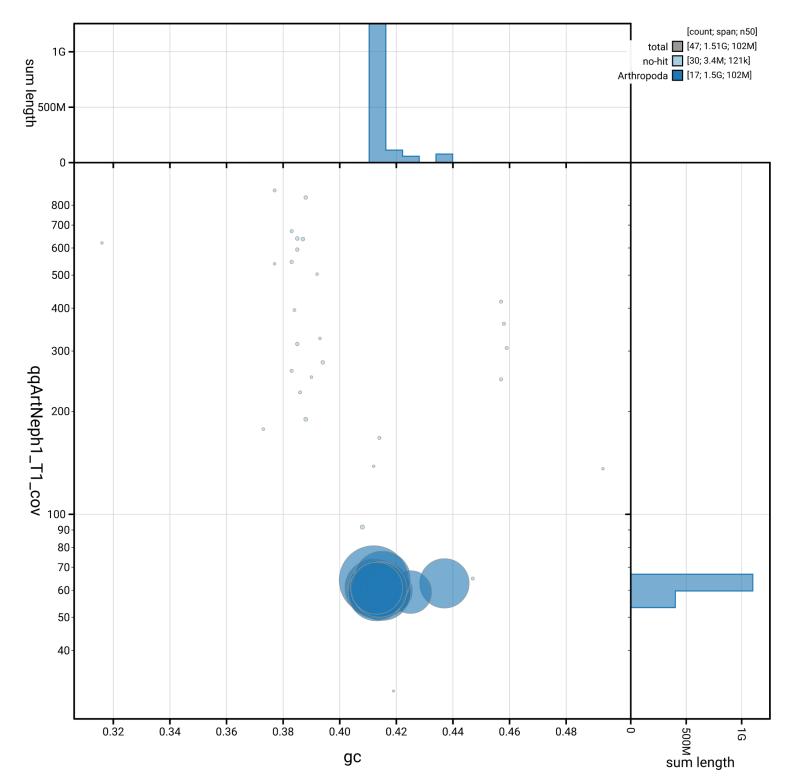


Distribution of k-mer counts per copy numbers found in asm



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	hifi	hic
Coverage	60x	235x

Assembly pipeline

- NBIS/Earth-Biogenome-Project-pilot
 - |_ ver: commit:855f10a4de2cbfbb20122d2afce4ea6233c1336c
 - |_ key param: NA

Curation pipeline

- Sanger-tol/curationpretext
 - |_ ver: 1.5.0
 - _ key param: NA
- PretextView
 - _ ver: 1.0.4
 - _ key param: NA
- sanger-tol/agp-tpf-utils
 - _ ver: commit: 35ea45dbcd8f3ece7a91104e5813541b55beb2ff
 - |_ key param: NA
- mahesh-panchal/sanger-tol-ear
 - |_ ver: commit: 4d9020a088
 - | key param: NA

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Date and time: 2025-10-30 10:24:33 CET