#### ERGA Assembly Report

v24.05.20\_glxy\_beta

Tags: ERGA-BGE

TxID	2934182	
ToLID	xgPhyFlav1	
Species	Phyllidia flava	
Class	Gastropoda	
Order	Nudibranchia	

Genome Traits	Expected	Observed
Haploid size (bp)	3,011,504,214	3,343,225,297
Haploid Number	12 (source: ancestor)	28
Ploidy	2 (source: ancestor)	2
Sample Sex	XX	XX

#### EBP metrics summary and curation notes

Obtained EBP quality metric for hap1: 7.8.Q6

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

- . Observed Haploid Number is different from Expected
- . QV value is less than 40 for hap1
- . Kmer completeness value is less than 90 for hap1
- . Assembly length loss > 3% for hap1

#### Curator notes

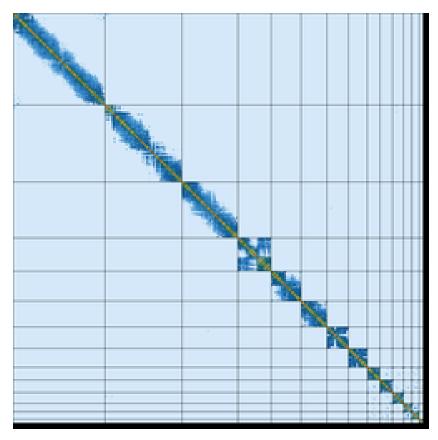
- . Interventions/Gb: 2
- . Other observations: "Large collapsed repeat in chr5, haplotypic inversion in chr12"

# Quality metrics table

Metrics	Pre-curation hap1	Curated hap1	
Total bp	3,660,021,265	3,343,225,297	
GC %	41.62	41.09	
Gaps/Gbp	34.97	22.13	
Total gap bp	1,874,523	138,686	
Scaffolds	973	104	
Scaffold N50	111,683,922	125,437,426	
Scaffold L50	12	10	
Scaffold L90	35	24	
Contigs	1,101	178	
Contig N50	73,275,821	77,716,104	
Contig L50	16	14	
Contig L90	85	43	
QV	68.0694	6	
Kmer compl.	95.5615	9	
BUSCO sing.	95.3%	95.2%	
BUSCO dupl.	0.7% 0.7%		
BUSCO frag.	1.1%	1.1%	
BUSCO miss.	2.9%	3.0%	

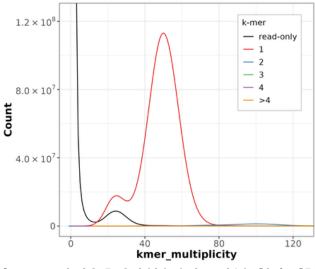
BUSCO 5.4.7 Lineage: mammalia\_odb10 (genomes:24, BUSCOs:9226)

# HiC contact map of curated assembly

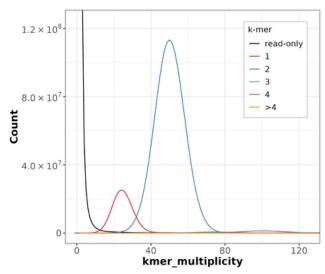


hap1 [LINK]

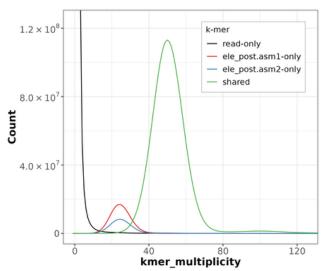
# K-mer spectra of curated assembly



dataset\_0c26e5c6-8484-4c2c-a814-f3ebaf50 63e5.dat



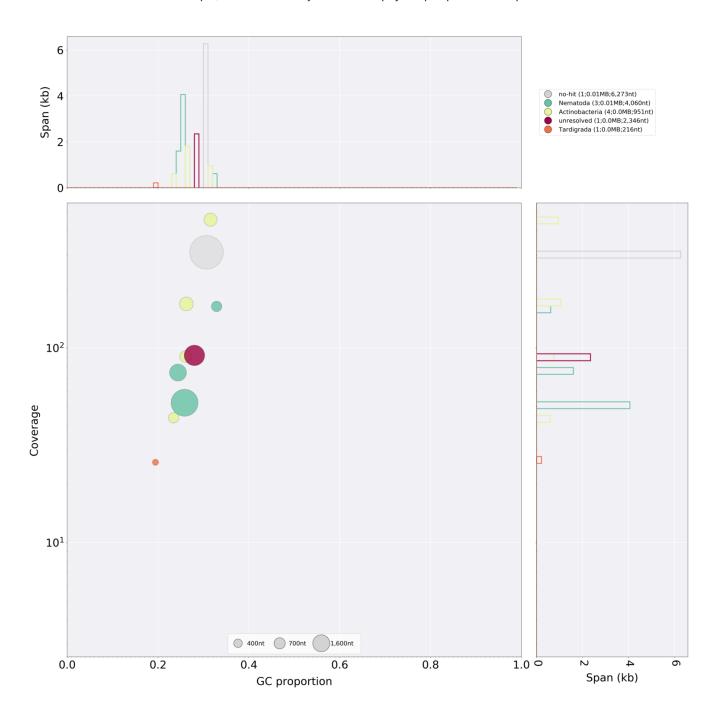
dataset\_d7ac8613-5816-4017-beb6-1b820289 db40.dat



dataset\_49614f00-4cbb-470f-ba74-7147579cd51a.dat

### Post-curation contamination screening

example/test.test.blobDB.json.bestsum.phylum.p7.span.100.blobplot.bam0



hap1. 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	Bionano	OmniC
Coverage	40x	10x	90x

### Assembly pipeline

# Curation pipeline

```
- GRIT_rapid

|_ ver: 2.0

|_ key param: NA

- HiGlass

|_ ver: 1.0

|_ key param: NA
```

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