Assessing genome quality with QUAST.



10 January 2020, Friday, 08:30:06

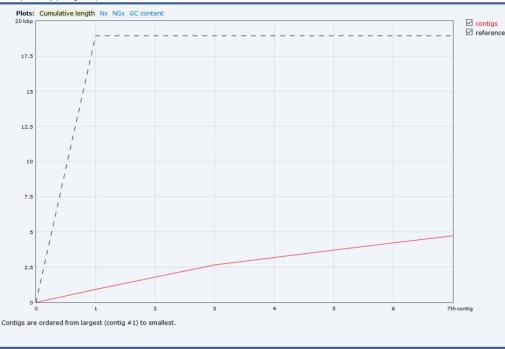
View in Icarus contig browser

All statistics are based on contigs of size >= 500 bp, unless otherwise noted (e.g., "# contigs (>= 0 bp)" and "Total length (>= 0 bp)" include all contigs).

Aligned to "GCF_000889155.1_ViralProj51245_genomic" | 18 940 bp | 1 fragment | 42.01 % G+C

Genome statistics	≡ contias
NGA50	- Contags
Mismatches	
# N's per 100 kbp	0
Statistics without reference	
# contigs	7
Largest contig	925
Total length	4727
Total length (>= 1000 bp)	0
Total length (>= 10000 bp)	0
Total length (>= 50000 bp)	0
Predicted genes	
# predicted genes (unique)	2
Extended report	

 Basic information about the assembly

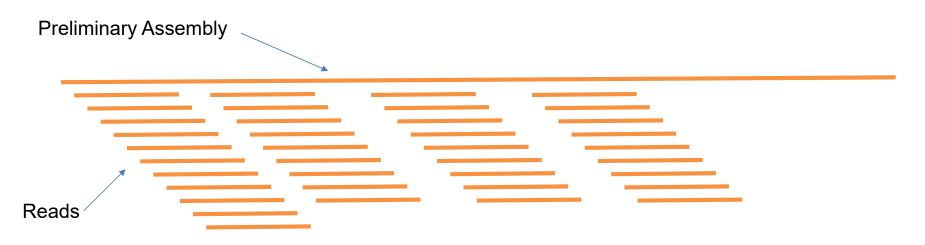


- Compare the length of the reference to the cumulative length of the contigs.
- Could the preliminary assembly contain a complete genome?

We now have a preliminary assembly!

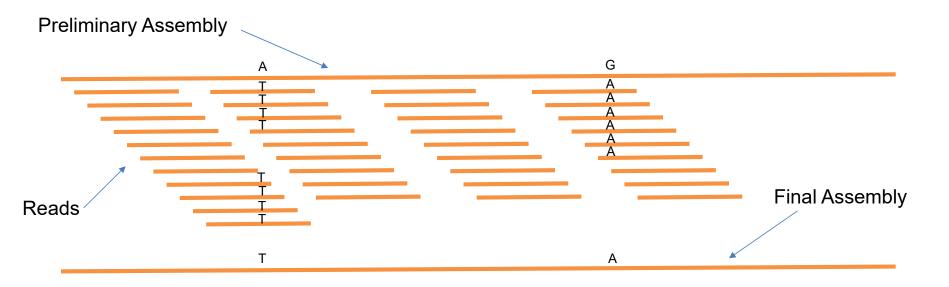
Preliminary Assembly

Improve the quality of the assembly: Polishing



- We can map the quality filtered reads to this preliminary assembly.
- This is similar to the initial read mapping to the reference genome done previously.

Improve the quality of the assembly: Polishing



- The read sequences may disagree with the assembly sequence at certain positions.
- Identifying these differences will enable us to correct small-scale errors, yielding a more accurate final assembly.
- A final assembly will be generated with the corrected sequences.