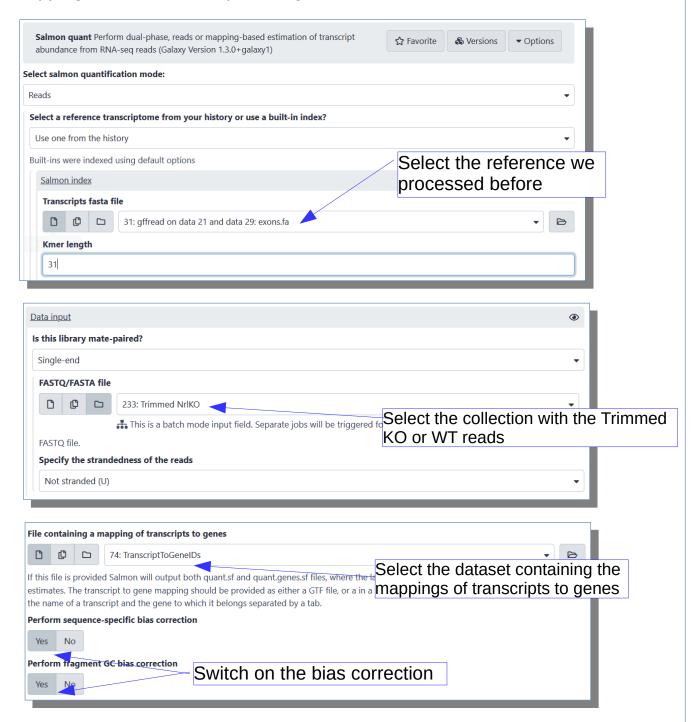
## **RNA-Seq Analysis: Align and Quantify**

## **Alignment and Quantification using Salmon**

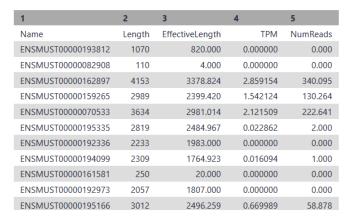
 We will provide to salmon the reference, the collection of fastq files and the mapping between transcripts and genes.

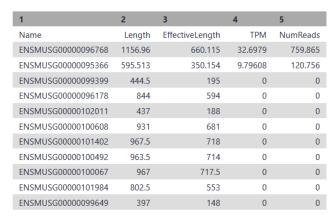


- Leave the rest of the parameters as default. Usually the tools are setup with default options that suits most of the analysis problems. Do not change then unless you now what they mean.
- Repeat the process for the other samples.

## **RNA-Seq Analysis: Align and Quantify**

 Salmon produces several outputs: Transcript and Gene quantification level.





Transcript Level Quantification

Gene Level Quantification

- Salmon produces two quantifications TPMs and NumReads:
  - TPMs is a normalized quantification by the total number of transcripts produced in the experiment.
  - NumReads are just the counts, how many sequences mapped to that particular transcript or gene.