



## Transcriptome Sequencing (RNA-Seq)

**Transcriptome sequencing (RNA-seq)** is the set of genes which are transcribed in any one condition is known as the transcriptome, and the process of determining the genetic codes contained in the transcriptome, and their relative proportions, is known as transcriptome sequencing.

A transcriptome is the full range of messenger RNA, or mRNA, molecules expressed by an organism. The term "transcriptome" can also be used to describe the array of mRNA transcripts produced in a particular cell or tissue type.

### **What can a transcriptome tell us?**

An RNA sequence mirrors the sequence of the DNA from which it was transcribed. Consequently, by analyzing the entire collection of RNA sequences in a cell (the transcriptome) researchers can determine when and where each gene is turned on or off in the cells and tissues of an organism.

**Genetika Science Indonesia is offering RNA-Seq service as one of our portfolio service parts.**

We offers reliable and accurate insights into RNA from extraction to data analysis.

## What is the platform that Genetika Science will run?

Illumina NextSeq 500 PE150



## What kind of RNA-Seq services that Genetika Science offer?

- mRNA Sequencing
- Prokaryote RNA Sequencing
- Whole-Transcriptome Sequencing

## What kind of samples that customers can submit to us?

1) Total RNA samples, please be sure for the requirements:

- a) Concentration is  $\geq 50$  ng/uL.
- b) RNA Integrity Number is  $\geq 6.5$ , smooth base line.
- c) Purity:  
OD260/280  $\geq 2.0$   
OD260/230  $\geq 2.0$

2) Samples such as plants tissue, animal tissue, pure bacterial isolate, etc.

Send the samples dry ice condition or liquid nitrogen.

What kind of data analysis that customers will get?

1. Alignment.
2. DEG.
3. Heatmap.
4. MA-Plot.
5. Volcano Plot.
6. Gene ontology.
7. SNP, InDel.
8. Venn Diagrams.



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