

LncRNA Sequencing Solutions

Long non-coding RNAs (lncRNAs) are defined as ≥ 200 nucleotide long RNAs, which regulate gene expression at epigenetic, transcriptional, and post-transcriptional levels through binding to DNA, RNA, or protein.

In this post-genomic era, lncRNAs are gaining increasing attention in areas of medical and agricultural research.

Our Key Features & Advantages



Directional Library

We offer directional library after rRNA removal, adding information on the originating strand of transcripts.



Comprehensive Integrated Analysis

Comprehensive integrated analysis of lncRNA and mRNA with one library construction.



Reliable & Faster Turnaround Time

The strategic locations of our labs across Asia and our extensive NGS system can provide faster turnaround time.



Extensive Experience

We have extensive records of sequencing projects that have been published in journals.



Unsurpassed Data Quality

We guarantee that $\geq 80\%$ of bases have a sequencing quality score $\geq Q30$, exceeding Illumina's official guarantee of $\geq 75\%$.

Project Workflow

Total RNA
Extraction

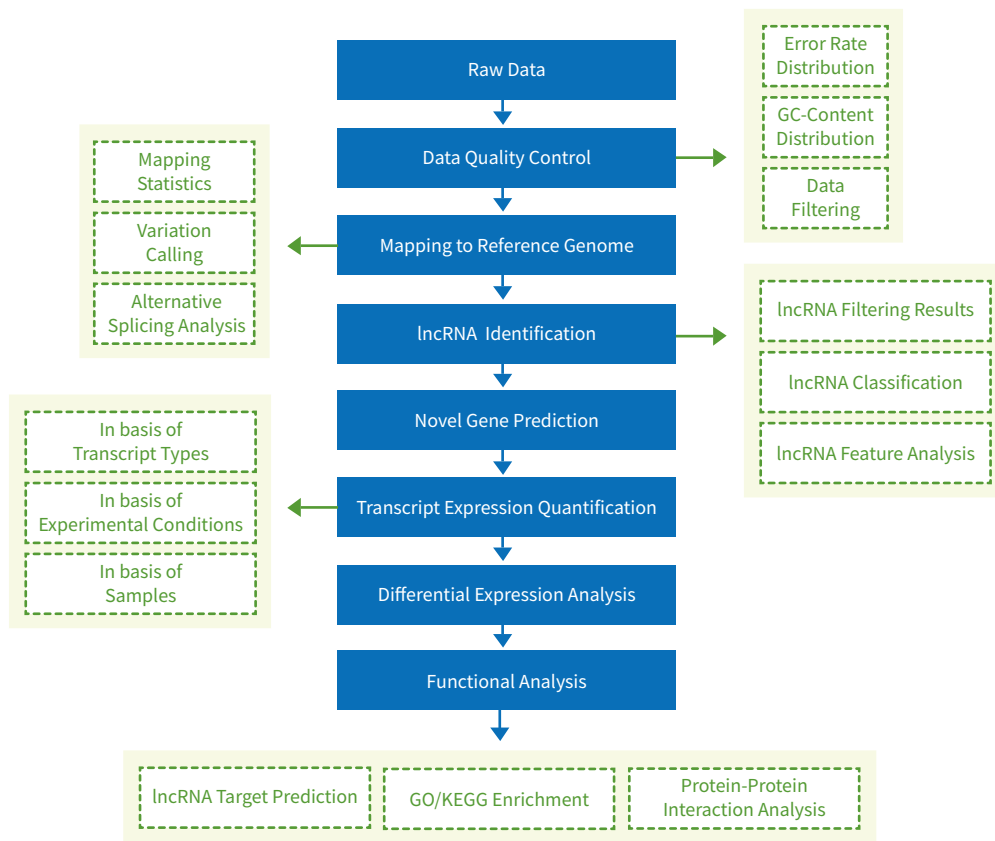
Sample Quality
Control

Library
Preparation

Sequencing

Bioinformatics
Analysis

Standard Analysis Pipeline



Sample Requirements

Library Type	Sample Type	Amount	Volume	Concentration	RIN	Purity (Nanodrop/Agarose Gel)
lncRNA Library (250-300bp insert directional library with rRNA removal)	Total RNA	≥ 0.5 µg	≥ 20 µL	≥ 50 µL	Animal ≥ 6.5 Plant/Fungi ≥ 6, with the smooth baseline	No degradation, no contamination

Publications

Listed below are some publications that were supported by Novogene solutions. We have successfully sequenced and analyzed the lncRNAs from almost 70 species, including cattle, mice, rabbits, chickens, butterflies, bees, nematodes, sea buckthorn, banana, and cotton, etc. More scientists are using our service to advance their lncRNA research on humans, pigs, sheep, and many other species.

Journal	IF	Title
Molecular Cancer	10.68	A novel IFN α -induced long non-coding RNA negatively regulates immunosuppression by interrupting H3K27 acetylation in head and neck squamous cell carcinoma (2020.01)
Nature Genetics	25.46	Analysis of the androgen receptor-regulated lncRNA landscape identifies a role for ARLNC1 in prostate cancer progression (2018.06)

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