

For Life Science Research: **RNA Sequencing Solutions**



A transcriptome is a set of all the transcripts in one cell or one population of cells at certain status. Transcriptome analysis helps to identify genes that are differentially expressed in distinct cell populations.

Researchers can also gain a deeper insight into gene boundary identification, variable cleavage and transcript variation. RNA sequencing via Illumina platforms, based on SBS (sequencing by synthesis) chemistry, offers a wide range of benefits such as high throughput and high accuracy out of low sample requirements. RNA sequencing is a powerful tool for studying RNA transcriptional activity.

Novogene is well positioned to be your competent NGS partner ⇓



Reliable & Faster Turnaround Time

Our large assembly of NGS systems including Falcon and the strategic locations of our laboratories in Asia can provide faster turnaround time.



Extensive Experience

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



Multiple Choices

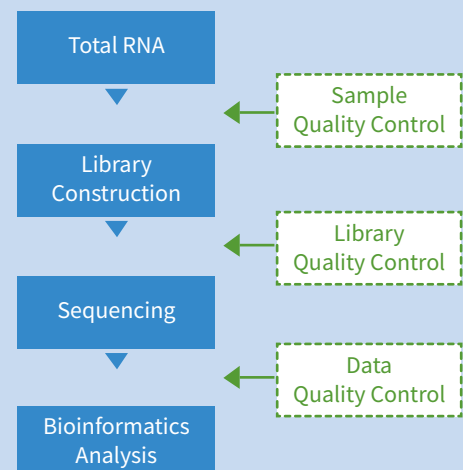
We offer multiple library choices and a comprehensive data analysis pipelines for your research needs.



Unsurpassed Data Quality

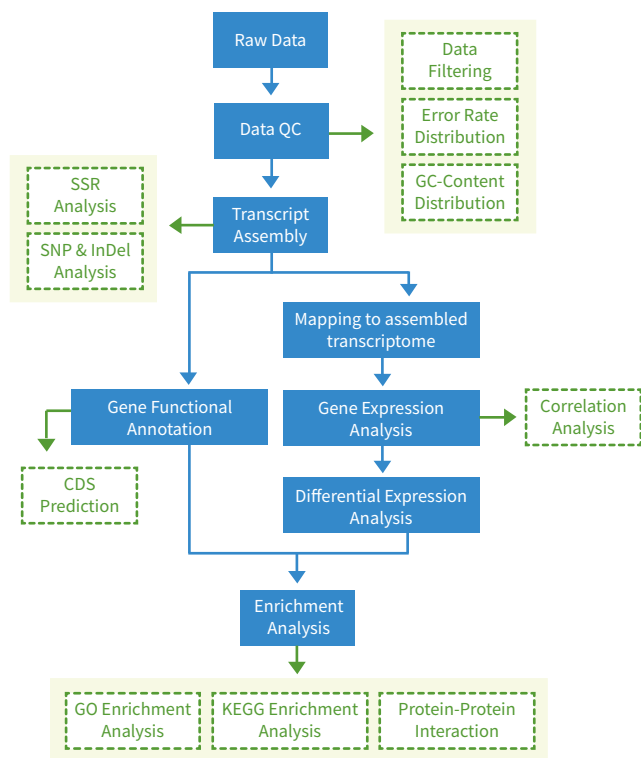
Our informatics expertise and sequence processing capacity are capable to manage and deliver superior data quality that exceed Illumina's official benchmark and any other NGS providers.

Project Workflow ⇓

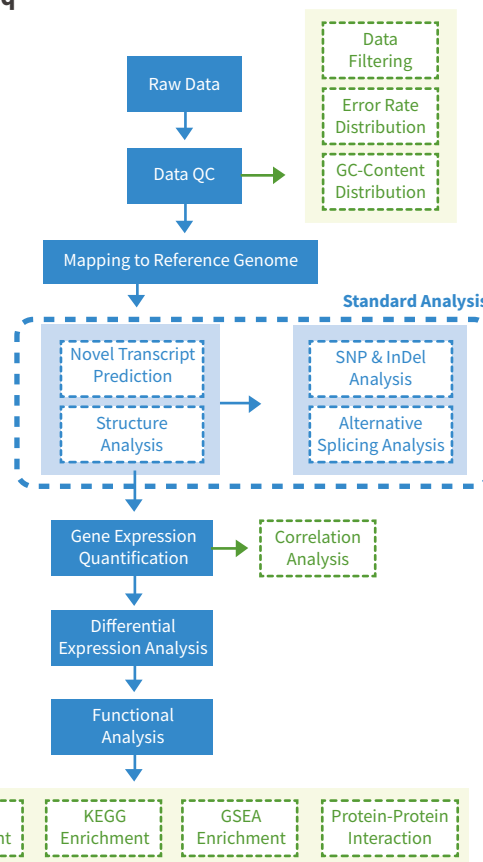


Standard Analysis Pipeline

denovo RNA-Seq



ref- RNA-Seq



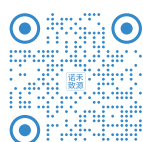
Sample Requirements

Sample Type	Amount	RIN	Volume	Concentration
Eukaryotic total RNA (Non-strand specific library)	≥ 0.4 µg	≥ 6.3 (animals) ≥ 5.8 (plants & fungi)	≥ 20 µL	≥ 20 ng/µL
Eukaryotic total RNA (strand specific library)	≥ 0.8 µg	≥ 6.3 (animals) ≥ 5.8 (plants & fungi)	≥ 20 µL	≥ 20 ng/µL

Selected Publications

Novogene has successfully sequenced more than 150 species, including rice, Arabidopsis, tomato, peanut, cotton, cucumber, human, rat, etc. With our RNA sequencing services, researchers have published lots of high tier articles in journals such as Cell Stem Cell, Genome Research, Nature Communications and more.

Journals	IF	Titles
Cell Host & Microbe	17.87	Drosophila Histone Demethylase KDM5 Regulates Social Behavior through Immune Control and Gut
Cell	31.40	Targeting Epigenetic Crosstalk as a Therapeutic Strategy for EZH2-Aberrant Solid Tumors (2018)



NovogeneAIT Genomics Singapore Pte. Ltd.
(Joint Venture & Sequencing Centre)

Novogene International Pte. Ltd.

25 Pandan Crescent #05-15 TIC Centre, Singapore 128477

T. +65-8823-3182

E. marketing_amea@novogeneait.sg

en.novogene.com