

Single Cell Sequencing

In contrast to whole tissue RNA sequencing, **single cell sequencing** has been a promising tool in cellular diversity research for medical and clinical treatments by analyzing individual cells in their microenvironments and making discoveries about unknown cell types and cell heterogeneities, particularly rare diseases.

At Novogene, we believe that single cell technologies should be easily accessible for spurring advances in scientific discoveries. Our end-to-end solutions include experimental consultation, onsite service, library preparation, Next Generation Sequencing, Cell ranger report generation and standard bioinformatics analysis. We offer the single cell sequencing solutions on the 10x Genomics Chromium System and Illumina platforms. The highlight of this technique enables massive transcriptional profiling of thousands of individual cells at single cell resolution.

Our Key Features & Advantages



On-site Service for Quality Sequencing Data

We provide on-site service to process your single cell samples in your lab to ensure high cell viability for quality sequencing data.



Cost savings up to 50% off your Single Cell Sequencing Project

Customers with whom we have collaborated have reported significant cost savings of up to 50% compared to performing single cell sequencing experiments independently.



Extensive Experience in Sample Types and Projects

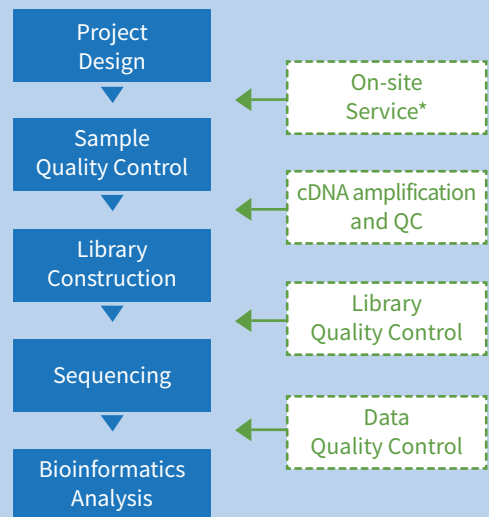
Our access to cutting-edge sequencing technologies and expertise working with diverse cell types offer you the flexibility to run any experiment.



Fast Turn-around Time

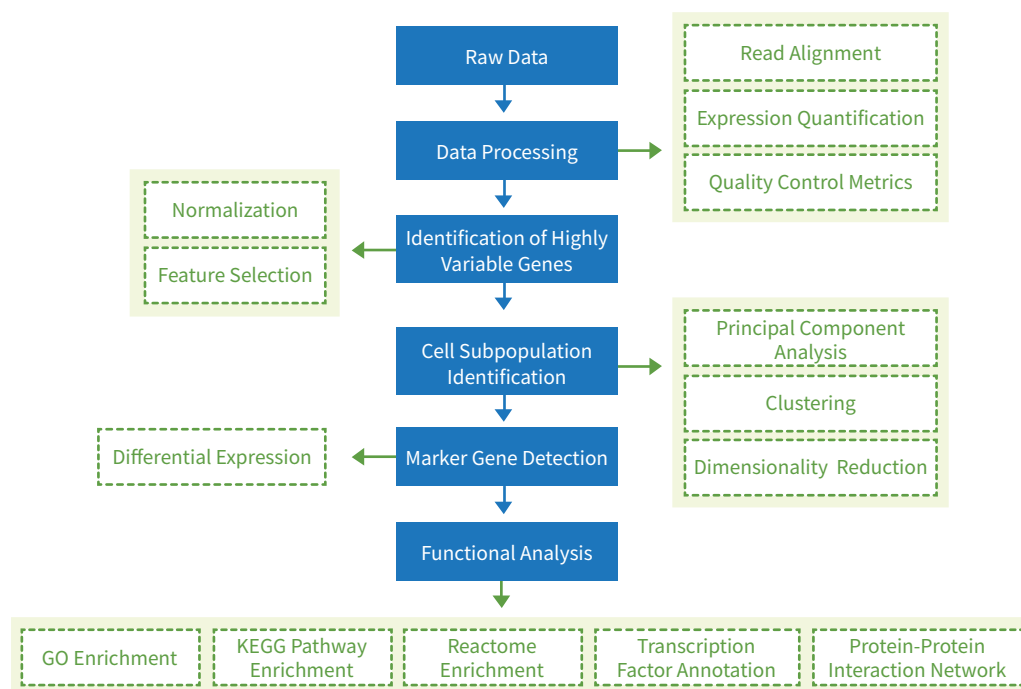
By processing your single cell samples in your lab, we reduce the transportation time of your sample between each crucial step of single cell sequencing.

Project Workflow



*Applicable for Singapore & Japan customers only.

Standard Analysis Pipeline



Sample Requirements

Sample Type	Sample Amount**	Cell Viability	Sequencing
Single cell suspension/ Single nuclei suspension*	Single Cells ≥ 100,000	Viability ≥ 80%, Diameter: 5-40 μm	Novaseq 6000 PE150, Recommend 120 Gb raw data/ sample

These requirements apply to Singapore and Japan customers only.

For customers from other countries, please contact us for more information on sample requirements.

*Single nuclei suspension - on-site service only. The sample cannot be frozen or shipped by dry ice.

**Please consult with the local support team.

Publications

Listed below are some publications that were supported by Novogene solutions, and more at our website.

Journal	IF	Title
Nature Cell Biology	28.824	Elucidating minimal residual disease of paediatric B-cell acute lymphoblastic leukaemia by single-cell analysis (2022)
Cell	36.216	Stress-Induced Metabolic Disorder in Peripheral CD4 + T Cells Leads to Anxiety-like Behavior (2019)
Nature	42.778	A dominant autoinflammatory disease caused by non-cleavable variants of RIPK1 (2019)

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