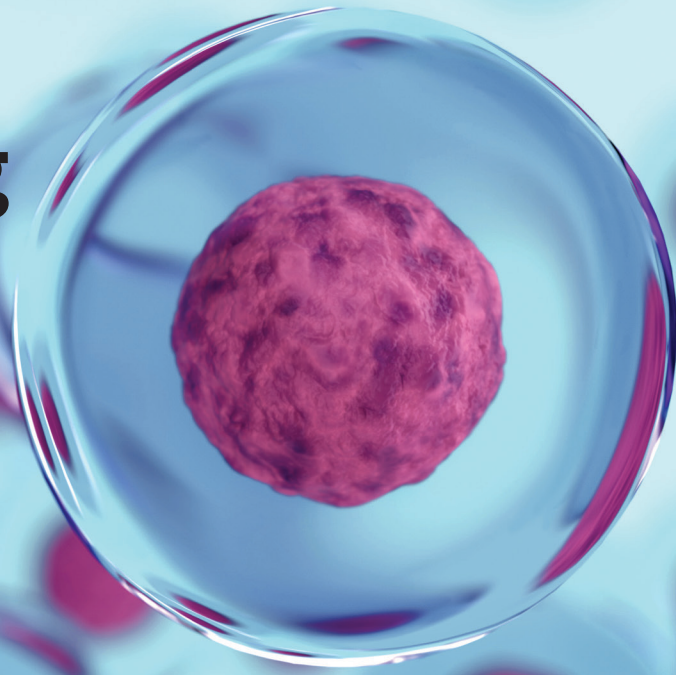


Single Cell Sequencing



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, frozen cell/ on-site 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



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.



No regional limitation to single cell sequencing

We provide frozen cell service without scheduling and minimal the batch effects for customer performing “longitudinal” experiments which involves collecting samples at different timepoint.



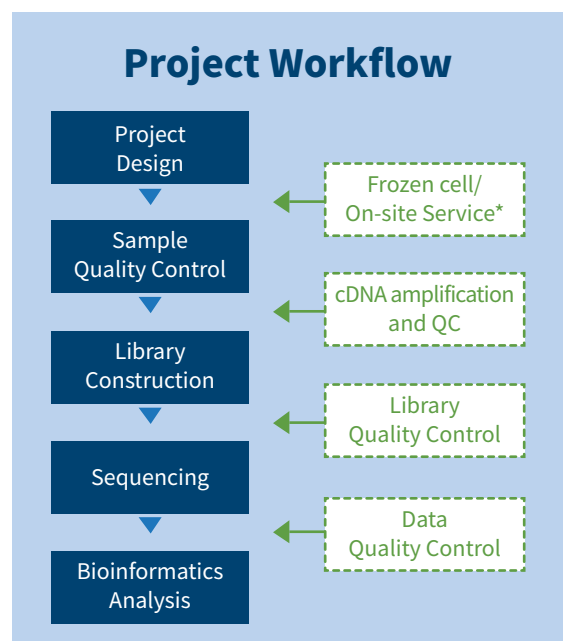
On-site Service for Quality Sequencing Data

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



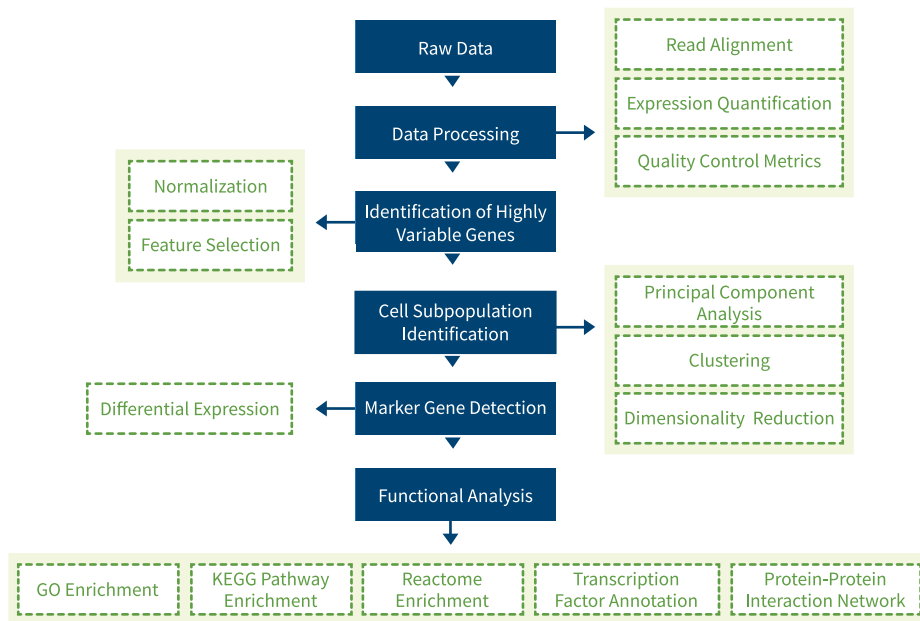
Fast Turn-around Time

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.



*Applicable for Singapore & Japan customers only.

Standard Analysis Pipeline



Sample Requirements

Sample Type	Sample Amount	Cell Viability	Sequencing
On-site service*	At least 50,000 cells	Cell viability should be >80% Cell size to be <40 µm	Novaseq 6000 PE150, Recommend 120 Gb raw data/ sample sample
Frozen cell service	Freeze more than 1,000,000 cells per vial and submit at least two 1.5mL cryovials	<ul style="list-style-type: none"> Cell viability should be >85% before freezing. Sample must be clear form debris, clean background before freezing. Please provide images of your single cell suspensions before freezing with scale bar. Cell size has to be <40µm. 	

* Onsite service applies to Singapore and Japan customer only.

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)

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