

Spatial Transcriptome Sequencing

Spatial organization of cells plays vital role in various biological processes, such as immune infiltration, em -bryo development, etc. Spatial transcriptome sequencing, which indicates gene expression profiling while retaining information of spatial position, has provide great insights into transcriptome-level tissue architect -ure. BMKGENE provides comprehensive, one-stop spatial transcriptome sequencing service from samples to biological insights.



Data output and quality score distribution Gene detection per spot Tissue coverage Gene detection Spot clustering Differential analysis among clusters Data combination Spot clustering of joint data Differential analysis between groups

Service,Advantages ·····

- One-stop service integrates all experience and skill based steps, including cryo-sectioning, staining, tissue optimization, spatial barcoding, library preparation, sequencing and bioinformatics.
- Highly skilled technical group with experience in over 250 tissue types, 100+ species including human, mouse, mammal, fish and plants.
- Real-time update on entire project with full control of experimental progress.
- Comprehensive standard bioinformatics package with 29 analyses, 100+ high-qulity figures.
- Customized data analysis and visualization available for different research requests.

Service Specifications ····

Library	Platform	Recommended data amount	
Spatial mRNA	10X Visium	(0 Ch/somels	
library	Illumina PE150	60 Gb/sample	

Demo Results

Sample Requirements ·····

Sample Delivery	Size	Number
OCT embedded cryo samples FFPE samples (Human and mouse only)	< 6.5 x 6.5 x 6.5 mm ³	60 Gb/sample



Featured Publications

Year	Journal	Title	
2023	Int J Biol Sci	Integrating Spatial Transcriptomics and Single-nucleus RNA Sequencing Reveals the Potential Therapeutic Strategies for Uterine Leiomyoma	
2023	PNAS	mthl1, a potential Drosophila homologue of mammalian adhesion GPCRs, is involved in antitumor reactions to injected oncogenic cells in flies	

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