STOmics

Stereo-seq Transcriptomics Solution v1.3

Level-up Spatial Whole Transcriptome Solution

Higher capture efficiency

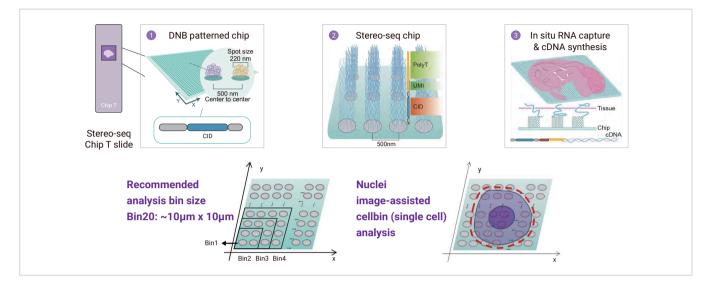
Broad compatibility

Faster workflow

STOmics

Technology Introduction

STOmics' proprietary Stereo-seq (SpaTial Enhanced REsolution Omics-sequencing) technology provides researchers with a new tool to investigate spatial biology. We offer an unprecedented field-of-view and subcellular resolution, allowing for simultaneous study and analysis of the transcriptome at tissue, cellular, subcellular, and molecular levels using fresh frozen tissue.



| Validated Tissue Types | | | | | | | |
|------------------------|--------|-----------------|---|--------------|----------------|--------|--|
| Mouse | | | Human | | | Other | |
| Whole brain | Ovary | Large intestine | Lung cancer | Thymus | Thyroid cancer | | |
| Eye ball | Heart | Skin | Esophageal cancer | Pancreas | Kidney cancer | Monkey | |
| Small intestine | Spleen | Lung | Colon cancer | Liver Cancer | Ovarian Cancer | brain | |
| Kidney | Liver | Thymus | Skin hair follicler | Tonsil | Breast cancer | | |
| Uterus | Tongue | Tumor-bearing | Endometrial carcinoma lymph node metastasis | | | | |
| | | | And More | | | | |

Product Features

• Single cell spatial discovery

Improved capture efficiency resulting in higher gene counts per cell, enabling precise spatial cellular phenotyping and exploration of cell-cell interaction within the tissue context.

• Broad compatibility

Compatible with a variety of tissue types and species as well as precious samples with low RIN values

• Various sizes to meet your needs

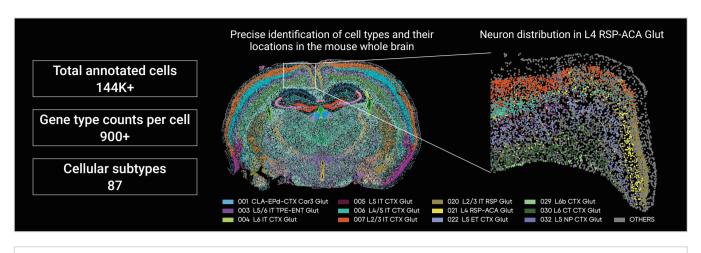
Currently available in 0.5cm x 0.5cm or 1cm x 1cm chip sizes without compromising resolution. The upgrade for the Large Chip Designs (LCD) will be available soon.

• Unbiased whole transcriptome profiling and more

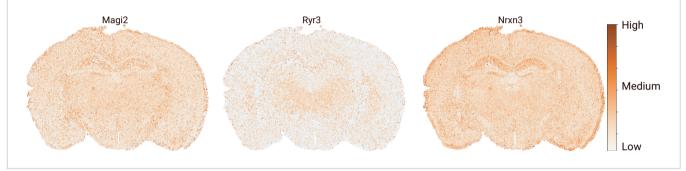
Not limited by predetermined targets or throughput, enabling unbiased whole transcriptome discovery and the ability to combine multi-omics capabilities.



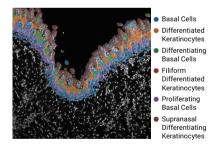
Demo Data



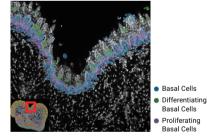
Uniquely expressed protein-coding genes demonstrated spatial distribution features in mouse brain



Precise spatial single-cell analysis enables well-defined tissue stratification



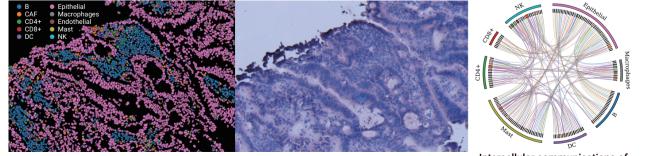
Epithelial cells exhibit a layer distribution from basal cells to keratinocytes.



Cells Intiating Cells rating Cel

The pattern of marker gene expression is consistent with the distribution patterns of associated cells (basal cells).

Decode tumor microenvironment in CRC at single-cell resolution

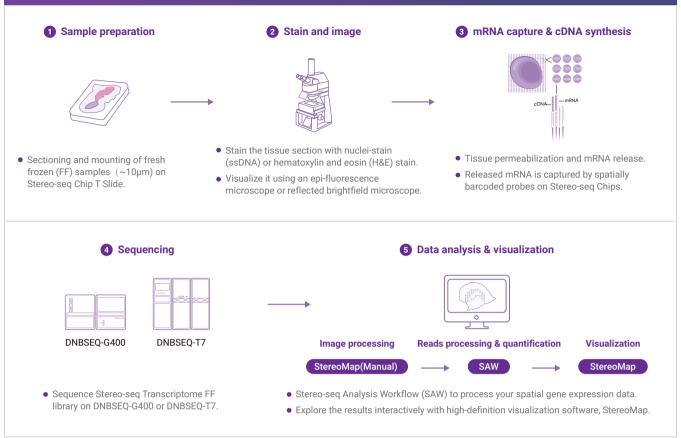


Stereo-seq reveals intricate anatomical structures and cellular composition

Intercellular communications of identified immune cell types in CRC samples

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Stereo-seq Workflow



Product Specification

| Product | 0.5 cm x 0.5 cm chip | 1 cm x 1 cm chip | |
|--|---|------------------|--|
| Detection scope | Unbiased whole transcriptome | | |
| Data output bin size (minimum) | Bin 1 (500nm) | | |
| Data visualization and analysis bin size (recommended) | Single-cell segmentation (Cellbin) or Bin 20 (10 $\mu m)$ | | |
| Additional instrumentation | No required | | |
| Sample type | Fresh frozen | | |
| Analysis software included (free) | StereoMap & SAW | | |
| Capture area size | 0.5 cm x 0.5 cm | 1 cm x 1 cm | |
| Duration/hands-on operational time | 1.5 day | 1.5 day | |
| Minimum Sequencing Depth | 600M reads | 2000M reads | |
| Product name | | Product code | |
| Stereo-seq Permeabilization Set for Chip-on-a-s | lide V1.1 | 211SP11118 | |
| Stereo-seq Transcritpomics Set for Chip-on-a-sl | ide V1.3 | 211ST13114 | |
| Stereo-seq Transcritpomics Set for Chip-on-a-slide (0.5c | cm * 0.5cm) V1.3 | 211ST13004 | |
| Stereo-seq 16 Barcode Library Preparation Ki | t V1.0 | 111KL160 | |
| Stereo-seq PCR Adaptor | | 301AUX001-02 | |

Reach out to us to learn more:



Web: en.stomics.tech

