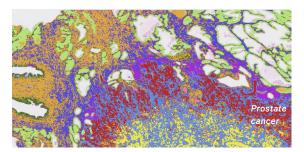
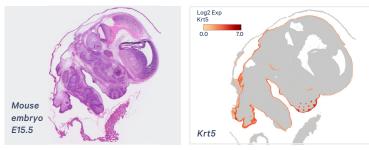
10x Genomics | Visium HD Platform Flyer

Whole transcriptome spatial discovery at the resolution you need

Visium HD Spatial Gene Expression

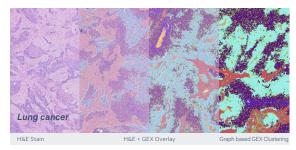
Visium HD empowers a new era of spatial discovery, enhancing proven whole transcriptome spatial analysis with single cell–scale resolution, enabling continuous tissue coverage, and delivering best-in-class data with innovative probe-based chemistry and a Visium CytAssist-enabled workflow.



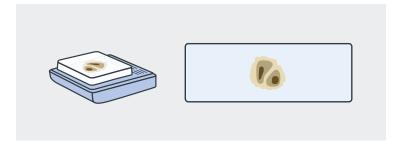


Whole transcriptome, single cell scale, continuous coverage

Precise transcript localization enabled by Visium CytAssist

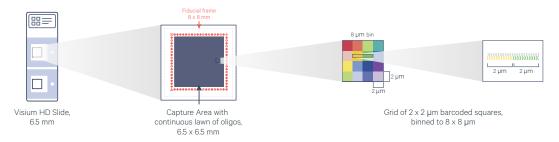






Powerful data from FFPE blocks or pre-sectioned slides

Next-generation slide architecture enables single cell-scale resolution

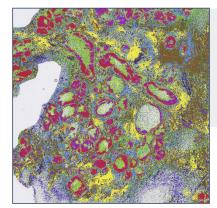


Visium HD Spatial Gene Expression slides contain two 6.5 x 6.5 mm Capture Areas with a continuous lawn of oligonucleotides arrayed in ~11 million $2 \times 2 \mu$ m barcoded squares without gaps, achieving single cell–scale spatial resolution. The data is output at 2μ m, as well as multiple bin sizes. The $8 \times 8 \mu$ m bin is the recommended starting point for visualization and analysis.

10x Genomics | Visium HD Platform Flyer

Boundless discovery potential in every micron

Spatially mapped GEX clustering



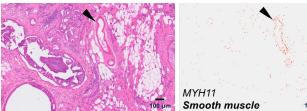
- Breast glandular cells Breast myoepithelial cells
- Endothelial cells Adipocytes
- B plasma cells

■ Fibrolasts

Visium HD analysis of this FFPE ductal carcinoma in situ human breast cancer sample builds an unbiased, whole transcriptome map, and identifies major cell types and states in the tumor microenvironment.

H&E staining

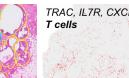
Visium HD gene expression data

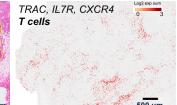


Confidently map the spatial organization of cell types in small biological structures, such as blood vessels.

H&E staining with pathology annotations of cancer

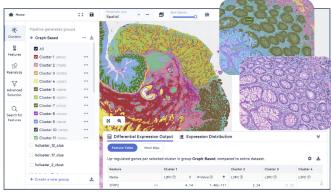
Visium HD gene expression data (yellow) and immune rich (cyan) regions





Localize tissue-resident cell populations, including immune or cancer cells, to discover their interactions and contributions to disease or therapeutic response.

Intuitive data exploration accelerates discovery



Visium HD data is output at 2 μm, as well as multiple bin sizes. Above data visualized at 8 μm

- Process Visium HD spatial gene expression data with brightfield and fluorescence microscope images using Space Ranger, a set of analysis pipelines
- Visualize and explore your data with Loupe Browser
- Continue analysis of Visium HD data with the growing ecosystem of R and Python community-developed tools

