10x GENOMICS

Bridging histology and genomics

Visium CytAssist

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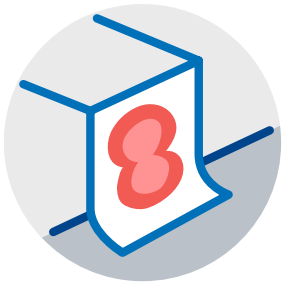
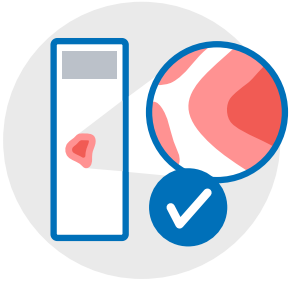


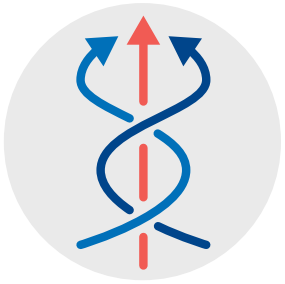
Choice

Start from FFPE blocks or pre-sectioned tissues on glass slides



Confidence

Pre-screen to find the most biologically significant tissue sections



Simplicity

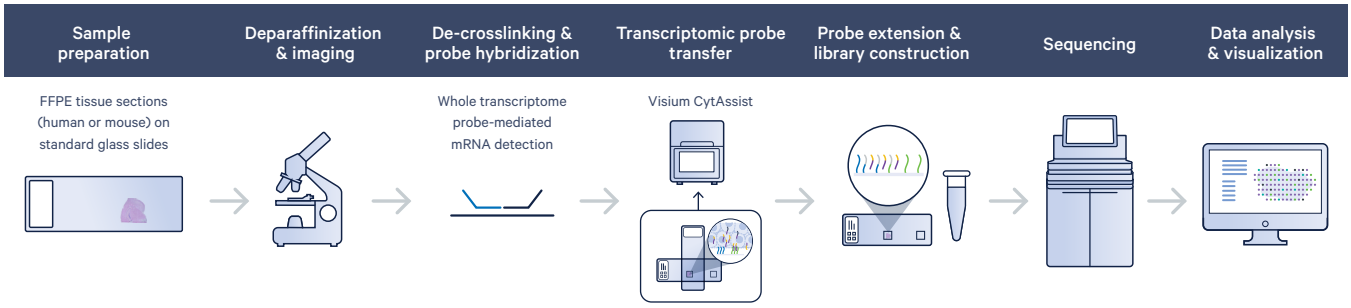
Integrate seamlessly with standard histology workflows

Introducing Visium CytAssist

The new Visium CytAssist is a compact, benchtop instrument that enables the transfer of transcriptomic probes from standard glass slides to Visium slides, enabling spatial profiling insights to be gained from even more samples. Compatible with hematoxylin and eosin (H&E)- or immunofluorescently (IF)-stained FFPE tissue sections, CytAssist allows pre-sectioned tissues to be used for the Visium workflow. You can further maximize your Visium experiments by screening tissue sections using standard histological techniques to find biologically significant sections and then precisely align those sections within the Visium slide Capture Area using CytAssist.

Expand access and simplify sample management

Visium CytAssist lets you begin your spatial profiling experiment by sectioning your tissue onto a standard glass slide. Just like your typical histology workflow, you can then deparaffinize, stain (H&E or IF), and image the sections. When you are ready to begin spatial profiling, the sections are de-crosslinked and hybridized with probes to capture the transcriptomic probes. Following probe hybridization, Visium CytAssist facilitates transfer of these transcriptomic probes from the glass slide to a Capture Area on the Visium slide. Within the instrument, two standard glass slides and a two–Capture Area Visium slide are placed so that the tissue sections on the glass slides are aligned on top of the two Visium Capture Areas. You can then proceed with the remaining steps of the Visium workflow.



Facilitate transfer of transcriptomic probes in FFPE samples with Visium CytAssist. In the Visium CytAssist workflow, sectioning, deparaffinization, and staining and imaging (H&E or IF) take place on a standard glass slide. After probe hybridization, two standard glass slides and a two–Capture Area Visium slide are placed in the CytAssist instrument so that the tissue sections on the standard slides can be aligned on top of the two Visium Capture Areas. Within the instrument, a brightfield image is captured to provide spatial orientation for data analysis, followed by hybridization of transcriptomic probes to the Visium slide. The remaining steps, starting with probe extension, follow the standard Visium for FFPE workflow outside of the instrument.

Highlights

- Simplify sample handling with facilitated transfer of transcriptomic probes from standard slides onto the Visium Capture Area
- Expand sample compatibility to pre-sectioned and pre-stained tissues on standard glass slides
- Maximize insights from Visium experiments by prescreening tissue sections with standard histological techniques to select biologically significant sections
- Precisely capture up to two FFPE tissue sections per run in less than one hour using Visium CytAssist for FFPE slides and reagents

Visium CytAssist compatibility

- Visium for FFPE 2-reaction slides with 6.5 x 6.5 mm or 11 x 11 mm Capture Areas
- Visium Spatial Gene Expression for FFPE

Visium CytAssist target specifications	
Weight	18.3 lbs
Dimensions (max)	8” x 12” x 13.1” (W x D x H)
Samples per run	2 input tissue sections
Temperature range	32–55°C
Run time range	30–90 minutes

Contact us
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