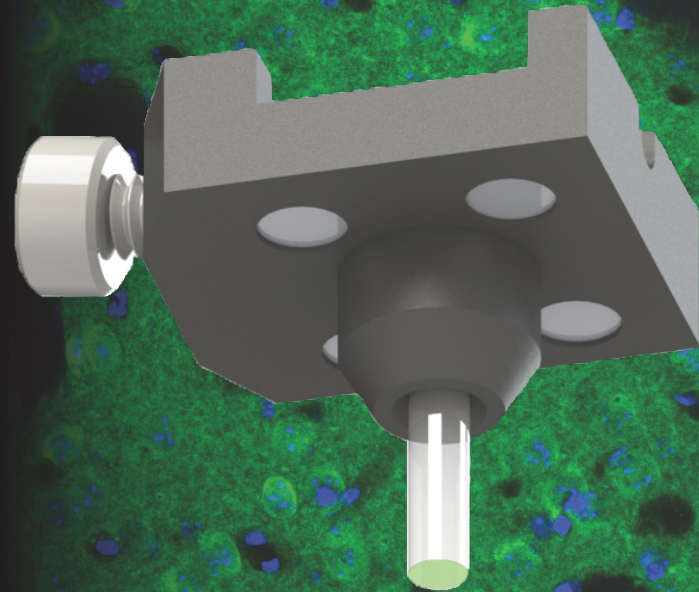


## ProView™ Express Kit

### Calcium imaging, optimized.

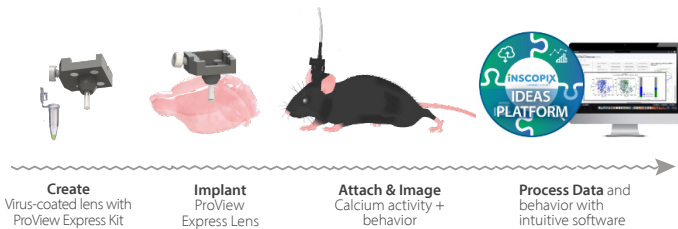
#### Key benefits

- Streamlines surgery by integrating virus delivery and implantation into a single step.
- Enables consistent imaging with reproducible, localized expression across cohorts.
- Provides flexibility to customize probes with your virus of choice for tailored imaging needs.



## Image Neural Circuits with a Single Step Surgery

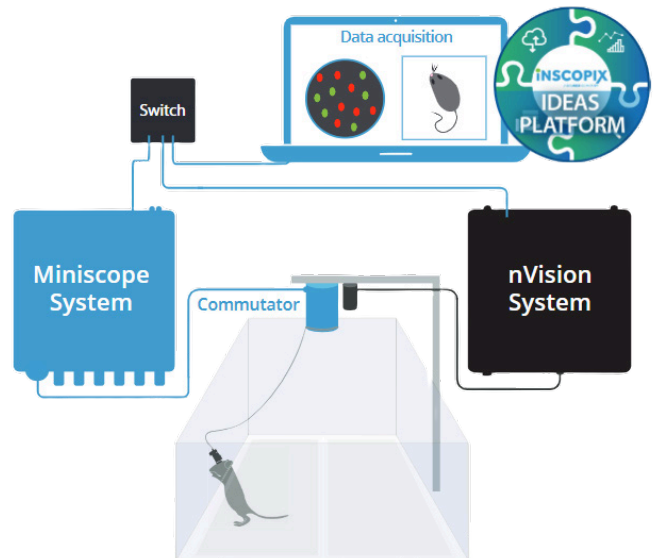
The ProView Express Kit gives researchers the flexibility to create virus-coated lenses with their preferred viral constructs. It simplifies the imaging workflow, enabling efficient, single-step surgery while ensuring reliable, localized expression beneath the lens for precise neural circuit imaging.



#### Our end-to-end solution includes:

- Biological reagents & accessories
- Cutting-edge instrumentation
- Powerful data processing
- Expert scientific support

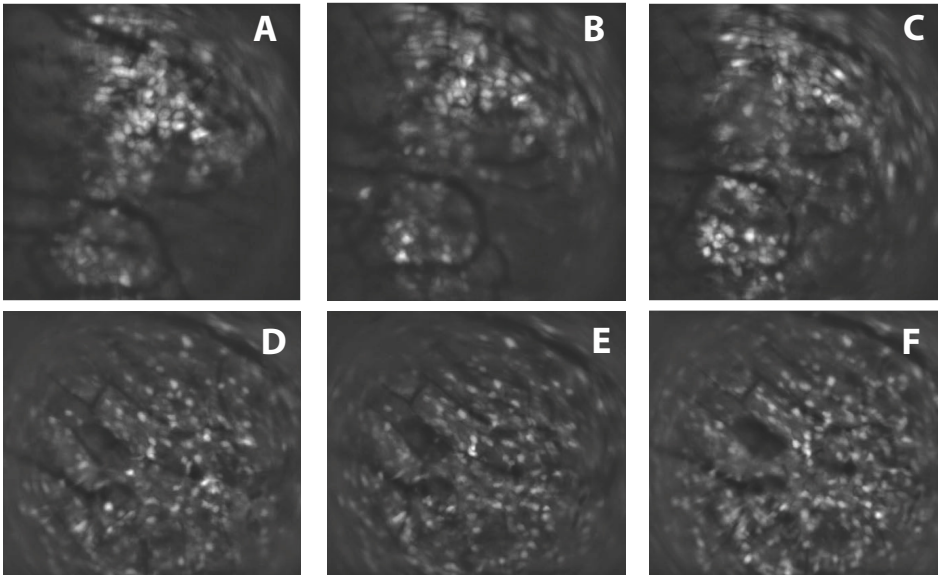
## How the Inscopix Solution Works



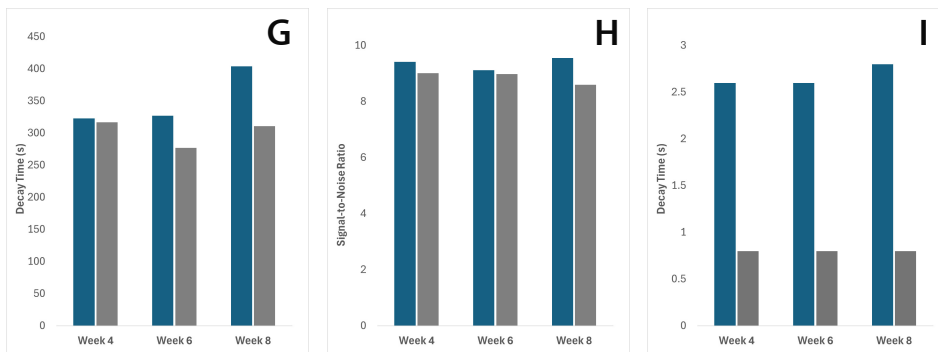
The **nVue™** (dual color) and **nVista™** (single color) systems capture changes in brain cell fluorescence and the **nVoke™** system simultaneously integrates opto-genetic modulation while capturing changes in brain cell fluorescence. Imaging, optogenetic, and behavioral data acquisition is instantly synchronized with the **nVision™** system, transmitted to the DAQ box and remotely viewed live on a computer. After acquisition, data can be rapidly analyzed using our cloud-based IDEAS platform, enabling fast and efficient insights.

# Ca<sup>2+</sup> imaging using ProView Express Kit

The ProView Express Kit enables the preparation of virus-coated lenses with GCaMP8m and GCaMP6m for targeted expression in the mouse prefrontal cortex (PFC). GCaMP-expressing neurons were imaged in freely behaving mice with Inscopix nVista miniscopes. Example data at 4, 6, and 8 weeks post-implantation demonstrate consistent signal quality and probe stability across different viral constructs.



Maximum intensity projections of 20-minute GCaMP recordings in mouse PFC using 1x4 mm ProView Integrated Lenses. Sample images show **A-C** GCaMP6m at **A.** week 4, **B.** week 6, and **C.** week 8 **D-E** GCaMP8m at **D.** week 4, **E.** week 6, and **F.** week 8 post surgery. Data processed with the Inscopix Data Exploration, Analysis, and Sharing (IDEAS) Platform.



Cell quality metrics were observed to be stable across recording sessions (weeks 4 to 8 post surgery). The data were derived from the QC report of a dataset processed with End-to-End CNMF-E using IDEAS. Cells with a minimum signal-to-noise ratio (SNR) greater than or equal to 5 and a skewness greater than 1 were included for further analysis. **G.** Cell yields **H.** SNR **I.** Decay Time (s) across week 4, 6, 8 expressing GCaMP6m (**Blue**) GCaMP8m (**Grey**).

Data Source: GCaMP6m data from Shaorong Ma, PhD (Dr. Yi Zuo's lab, UC Santa Cruz) and GCaMP8m data from Sierra Miller, PhD (Dr. Sofia Beas' lab, University of Alabama Birmingham).

## ProView Express Kit



## Validated Applications

Brain Region	Mouse dorsal striatum Prefrontal cortex
Virus Constructs	AAV1-CamKII-GCaMP6m AAV1-CamKII-jGCaMP6f AAV9-CamKII-jGCaMP8m
Lens	ProView Integrated Lens 1 x 4 mm

## Testimonials

*I like the ProView Express Kit, it improves virus injection efficiency and success rates, ensuring precise neuron targeting. It also makes surgeries easier and faster, and reduces neuron variation - Shaorong Ma, PhD | University of Santa Cruz*

## World-class Scientific Support

- Access iQ (iq.inscopix.com) anytime for online resources.
- Engage with a Field Scientific Consultant (FSC) for personalized online or onsite lab visits