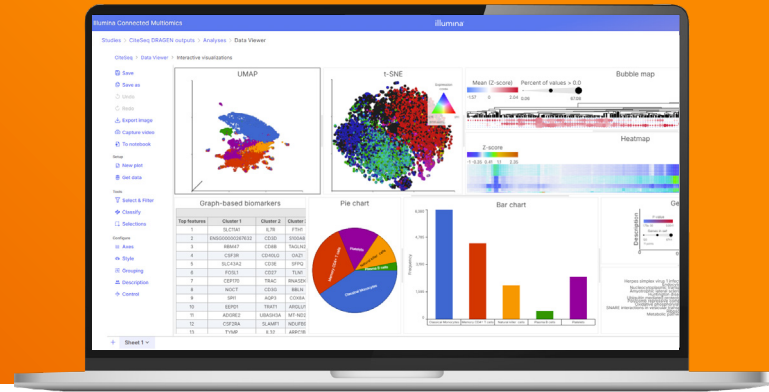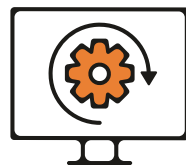# illumina®

# Accelerate your single cell studies

## with Illumina Connected Multiomics



Illumina Connected Multiomics enables researchers of all skill levels to intuitively analyze large and complex single-cell data at scale and combine with other omic data and modalities for new discoveries. Optimized for the Illumina Single Cell 3' RNA Prep kit and integrated with a custom DRAGEN Single Cell pipeline, the streamlined analyses workflow allows you to accurately map and align up to one million samples, perform cell classification, build data visualizations, and interpret biological findings.
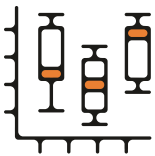


**Unlock deeper biological insights**



**Streamline analysis with intuitive software**



**Scale your studies with ease**
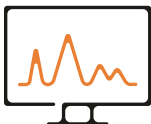
## Confidently analyze multiomic data



**Interactive visualizations**
Illustrate cell clusters and classification, differential expression, cell trajectory, cell-to-cell communication, and pathways with information rich and publication ready visualizations



**Data Integration**
Curate comprehensive studies by aggregating and annotating sample data with phenotypic metadata
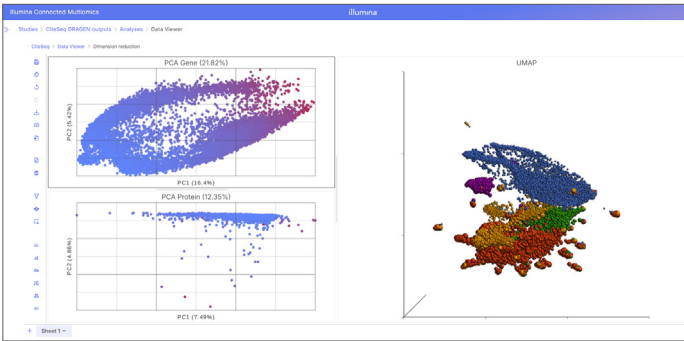


**Multiomic and multimodal analysis**
Analyze data from multiple single-cell RNA prep kits simultaneously with state-of-the-art methods and visualizations



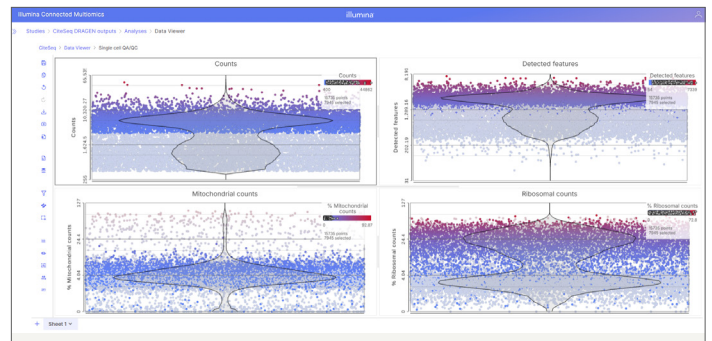**Security-first infrastructure**
Protect the privacy of your multiomic data with industry-leading global and local security standards

For Research Use Only. Not for use in diagnostic procedures.

# Bring your single-cell studies to life in beautiful, interactive visualizations
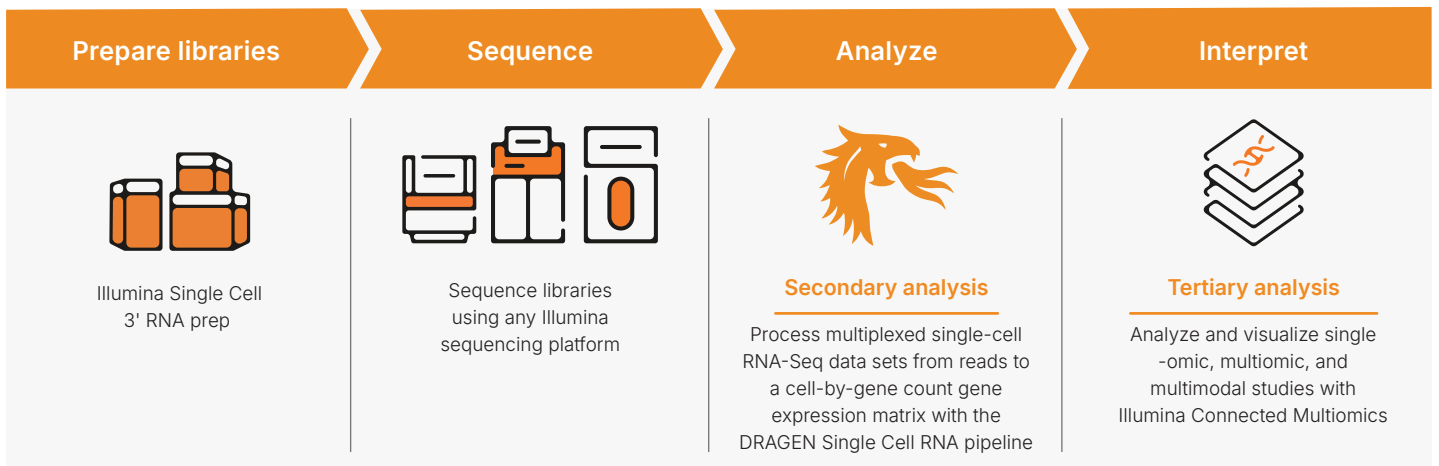


Simultaneously explore multiple modalities within single cell datasets through 2D and 3D PCA plots, with options to isolate or integrate cells for a more comprehensive analysis.



Perform cell-level QC interactively and filter cells based on UMI count, detected genes, mitochondrial and ribosomal counts.

An easy-to-use workflow that integrates Illumina Single Cell 3′ RNA Prep, sequencer, and data analysis, taking your single cell studies from sample preparation to insights.

| Prepare libraries | Sequence | Analyze | Interpret |
|---|---|---|---|
| Illumina Single Cell 3' RNA prep | Sequence libraries using any Illumina sequencing platform | **Secondary analysis** Process multiplexed single-cell RNA-Seq data sets from reads to a cell-by-gene count gene expression matrix with the DRAGEN Single Cell RNA pipeline | **Tertiary analysis** Analyze and visualize single-omic, multiomic, and multimodal studies with Illumina Connected Multiomics |

## What you can do:

- ✓ Dimensionality
- ✓ Clustering & classification
- ✓ Differential analysis
- ✓ Biological interpretation

**Learn more**

**Request demo**

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