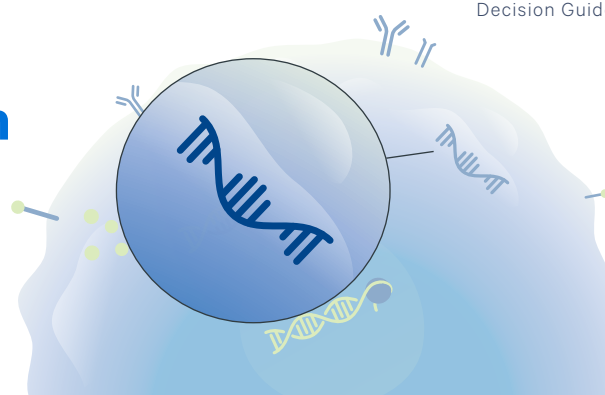


Single Cell Gene Expression

Characterize cellular heterogeneity, explore mechanisms driving development and disease, and trace cell lineages with comprehensive 3', 5', or probe-based transcriptomic sequencing at single cell resolution for hundreds to a million cells.



Assay comparison

	Single Cell Gene Expression	Single Cell Immune Profiling	Single Cell Fixed RNA Profiling
Description	A flexible solution providing 3' gene expression with options for multiomic analysis	Comprehensive analysis of immune diversity, combining 5' gene expression with multiomic profiling	A probe-based solution for whole transcriptome gene expression on fixed cells without time constraints
Additional multiomic capabilities	Cell Surface Protein CRISPR Screening	Cell Surface Protein Antigen Specificity BCR/TCR Sequencing CRISPR Screening	Cell Surface Protein
Extensions	Sample multiplexing with 3' CellPlex Automated workflow on Chromium Connect	Automated workflow on Chromium Connect	Built-in sample multiplexing
Targeted gene expression panels	Human (pre-designed and custom) Mouse (custom)	Human (pre-designed and custom) Mouse (custom)	N/A
Cell throughput	Low: 1,000 cells per channel; up to 8,000 cells per chip Standard: 10,000 cells per channel; up to 80,000 cells per chip; 140,000 cells per chip with 3' CellPlex High: 20,000 cells per channel; up to 320,000 cells per chip; up to 730,000 cells per chip with 3' Cellplex	Standard: 10,000 cells per channel; up to 80,000 cells per chip High: 20,000 cells per channel; up to 320,000 cells per chip	Singleplex: 10,000 cells per channel; up to 80,000 cells per chip Multiplex: 128,000 cells per channel; up to 1,024,000 cells per chip
Sample compatibility	Cells or nuclei Tested on diverse sample types, including cell lines, primary cells, and dissociated fresh tissue	Cells Tested on diverse sample types, including cell lines, primary cells, and dissociated fresh tissue	Fixed cells or nuclei Tested on diverse sample types, including cell lines, primary cells, and dissociated fresh tissue
Species compatibility	Demonstrated on multiple species, including human, mouse, and rat	Demonstrated on multiple species, including human and mouse Amplification of human or mouse TCR/BCR sequences	Human probe set available Mouse probe set coming soon
Instrument compatibility	Low: Chromium Controller, X/iX Standard: Chromium Controller, X/iX, Connect High: Chromium X	Standard: Chromium Controller, X/iX, Connect High: Chromium X	Chromium X/iX
Analysis software	Cell Ranger Cloud Analysis	Cell Ranger Cloud Analysis	Cell Ranger Cloud Analysis (Coming soon)
Visualization software	Loupe Browser	Loupe Browser Loupe V(D)J Browser	Loupe Browser (Coming soon)
Resources	Product sheet Kits and part numbers	Product sheet Kits and part numbers	Product sheet Kits and part numbers

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