

# Targeted Panels for Single Cell RNA-seq

Unlock greater scale by sequencing less

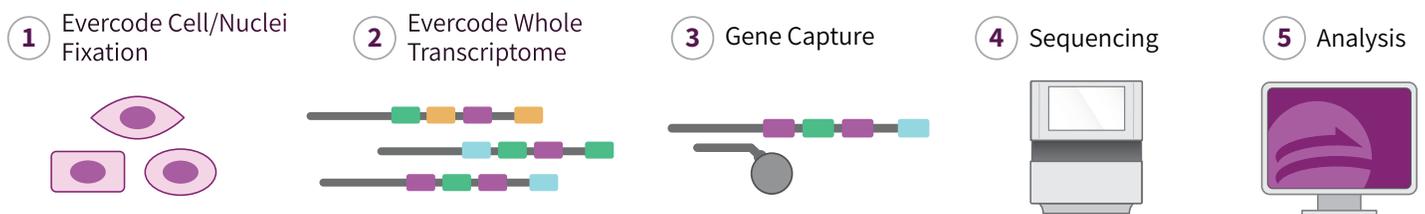
Single cell RNA-seq studies increasingly require larger sample and cell numbers, but projects are often limited by the throughput of existing technology. Evercode split-pool combinatorial barcoding broke through those limitations, enabling experiments up to a million cells at a time. Gene Capture expands that throughput by focusing sequencing on only genes of interest.

Custom Gene Capture allows researchers to design a panel to fit their research goals. Alternatively, Immune1000 Gene Capture includes a panel targeting 998 human immune cell type markers and pathways.

- **Maximize scalability**  
Analyze more cells and samples with 10 times less sequencing
- **Focus on genes that matter**  
Design a custom panel with 100s or 1000s of genes, or choose the fixed Immune1000 Panel
- **Retain High Resolution Data**  
Capture the diversity of cell types in complex samples

## Compatible with Evercode Workflows

By adding hybridization capture with gene-specific panels after Evercode Whole Transcriptome or Evercode TCR, Gene Capture enables shallower sequencing of targeted genes.

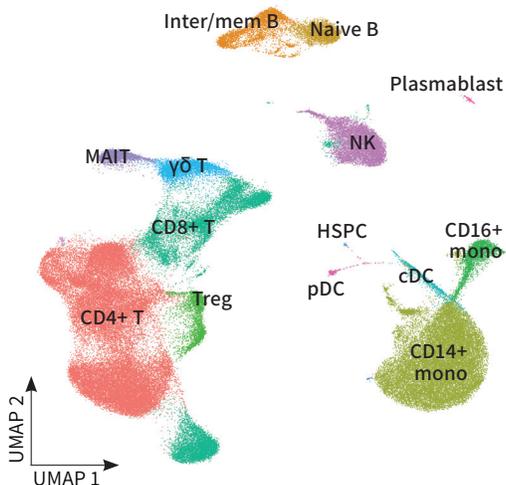


**Figure 1. Complete Workflow for Targeted Single Cell RNA-seq.** Lock in gene expression immediately after sample collection with a rapid fixation. Up to 96 samples can then be processed together with an Evercode WT Mega to create whole transcriptome libraries for up to 1 million cells. Gene Capture can enrich for 100s to 1000s of genes depending on panel design. Following sequencing, analysis software helps convert data into single cell insights.

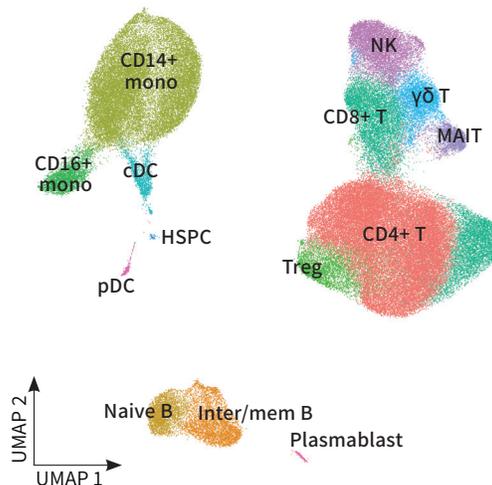
# Same Resolution with 10 Times Less Sequencing

With a high on-target rate and well designed panel, shallow sequencing yields the same clustering and cell type proportions.

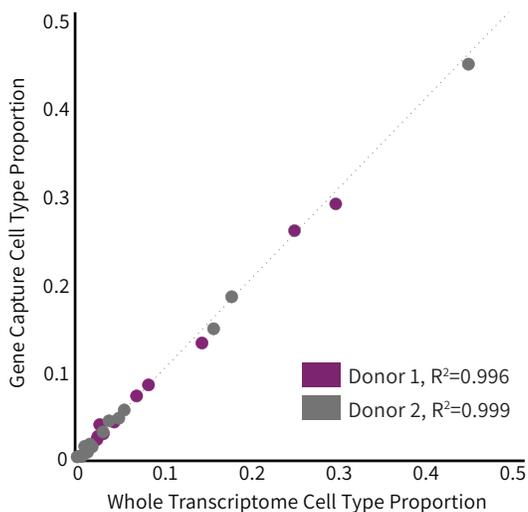
A. Whole Transcriptome - 28,000 reads/cell



B. Immune1000 Panel - 2,000 reads/cell



**Figure 2. Gene Capture Preserves Cell Type Clustering.** Human peripheral blood mononuclear cells (PBMCs) were isolated from 2 donors. Samples were fixed and processed with Evercode Cell Fixation WT v2 kits. Immune1000 Gene Capture was used to enrich immune specific genes from 104,000 cells and 8 sublibraries, yielding an on-target rate >80%.



**Figure 3. Cell Type Proportions Are Retained After Gene Capture.** Quantification of cell type abundances visualized in Figure 1.

## PRODUCT ORDERING INFORMATION

| PRODUCT   | PART NUMBER |
|---|-------------|
| <b>Custom Gene Capture</b><br>Two 8 sublibrary hybrid capture reactions.<br>Custom panel is not included.   | GCE1001     |
| <b>Immune1000 Gene Capture</b><br>Two 8 sublibrary hybrid capture reactions,<br>including Immune1000 Panel. | GCE1002     |
| <b>Evercode WT Mega v2</b><br>Up to 1,000,000 cells or nuclei and 96 samples                                | ECW02050    |
| <b>Evercode Cell Fixation v2</b><br>Up to 4 samples   | ECF2001     |
| <b>Evercode Nuclei Fixation v2</b><br>Up to 4 samples   | ECF2003     |

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