

RNA-Seq (Single Cell):

10X Genomics Chromium Controller System: Cells or nuclei are prepared in a single-cell/nuclei suspension and counted. For scRNA-seq, 10x Input is a single cell suspension at 700 cells/ μl - 1200 cells/ μl (min 50 μl). Cell viability of >90% is recommended. The number of cells to be barcoded is used to determine how many cells need to be loaded into the 10X Controller chip using the Chromium Next GEM Single Cell 3' kit (10X, PN-1000121) [workflow](#), the Chromium Single Cell V(D)J Enrichment Kit (for Human or Mouse T or B Cell) with the Chromium Next GEM Single Cell 5' Library Kit (10X, PN-1000165) [workflow](#), or the Chromium Next GEM Single Cell Multiome ATAC + Gene Expression kit (10X, PN-1000283) [workflow](#). The resulting 10X libraries are sequenced using Illumina chemistry. Recommended sequencing depth for 3' and 5' Gene Expression libraries is >50,000 reads pairs per cell. Recommended sequencing depth for V(D)J Enriched libraries is 5,000 read pairs per cell. Recommended sequencing depth for ATACseq libraries is >25,000 read pairs per cell.