

# Singleron Matrix NEO™

## In control of your single cell sequencing experiments



**Singleron Matrix NEO**



**NEO-chip**

With the **Singleron Matrix NEO**, you stay in control of your single cell experiments. Just load your cells and reagents onto the **NEO-chip**, insert the chip into the **Singleron Matrix NEO** and go!

The **Singleron Matrix NEO** can be used as an integrated part for the preparation of single cell sequencing libraries. It allows automation of chip priming, cell separation, cell lysis and mRNA capture, all by pushing one single button. The **Singleron Matrix NEO** greatly simplifies the operation process for single cell sequencing library construction and reduces manual steps to improve the stability and reproducibility of results. This fully automated process is suitable for multi-omics research, including whole transcriptome profiling, immune repertoire profiling, generation of targeted libraries and time-resolved transcriptomics.

### Singleron Matrix NEO™ complements our existing streamlined single cell workflow



Tissue Preservation  
Tissue Dissociation  
Single Cell Suspension



Chip Priming  
Single Cell Partitioning  
Cell Lysis  
Cell Barcoding  
mRNA capture



RT  
cDNA Amplification  
Library Construction



Sequencing



Data Analysis  
CeleScope®  
SynEcoSys®

#### Advantages

- **High Flexibility:** 1-4 chips in one run - mix & match different applications and chip configurations
- **High Throughput:** Up to half million cells processed in one run (500-500,000 cells)
- **Robustness:** Integrated self-check function to ensure success

#### Key specifications

<b>Instrument Size</b>	360 mm x 260 mm x 230 mm
<b>Weight</b>	10 kg
<b>Throughput</b>	1-4 samples / run
<b>Run Time</b>	38 mins incl. chip priming

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