About cellenCHIP 384

The cellenCHIP 384 is an innovative platform enabling miniaturized sample preparation of individual cells for single cell omics applications.

Over the last decade, the development of single cell omics analyses has revolutionized Biology and Medicine by deciphering a number of mechanisms that would not have been accessed by traditional bulk cell analyses.

With its optimal design and associated accessories, the cellenCHIP 384 further extends the capabilities of the cellenONE® technology by facilitating miniaturization of single cell workflows.

Product Specifications

With its microscope slide footprint, the cellenCHIP 384 allows novel miniaturized single cell omics applications in nanoliter-scale volumes.

Each cellenCHIP 384 contains the equivalent of 4 x 96 MTPs, arranged in an 8 x 12 geometry, resulting in a total of 384 wells.

Optimal material and design:

- Preventing well-to-well contamination or splashing
- Enabling highly efficient DNA recovery: >95%
- Low autofluorescence

V-shaped well structure with flat bottom and proprietary drop-shape spout design, which guides fluid out of the wells and maximizes liquid recovery.

Transparent material for high-resolution imaging.
The cellenCHIP 384 enables multiple isothermal single cell omics applications as well as miniaturized nanovolume reactions.

**Benefits**

- **Flexible:** compatible with most isothermal sample preparations
- **Gentle:** preservation of cell integrity in the chip enables single cell analysis in the cell's natural state
- **Cost-saving:** over 95% volume reduction compared to standard 384-well microplate with no loss of sensitivity
- **Unique:** Low autofluorescence and transparency allows high-resolution imaging for the visualization of cells
- **Universal:** a wide range of cell and particle sizes can be used for a variety of applications

**Applications**

The cellenCHIP 384 enables multiple isothermal single cell omics applications as well as miniaturized nanovolume reactions.

### Single cell omics

- **scRNA-Seq**
- **scWGS**
- **scATAC-Seq**

### Nanovolume reactions

- **Microscopy Applications**
- **Sample Preparation**

**Example of workflows & isothermal reactions**
- 3'scRNA-Seq
- CITE-Seq or TOTAL-Seq for surface protein profiling
- Bacterial and mammalian cell analysis
- Reverse transcription
- Multiple displacement amplification (MDA)
- Loop mediated isothermal amplification (LAMP)
- Tagmentation/fragmentation
About cellenCHIP 384 Accessory Kit

The cellenCHIP 384 Accessory Kit contains all necessary hardware parts for dispensing of cells and reagents into the cellenCHIP 384 using the cellenONE® platform as well as adaptor for recovery and pooling of reagents using centrifugation.

Set parts for use on cellenONE®
- cellenCHIP 384 Holder Top
- cellenCHIP 384
- cellenCHIP 384 Holder Base
- cellenCHIP 384 Print Platform
- cellenCHIP 384 Seal

Set parts for use on centrifuges
- cellenCHIP 384 Centrifuge Adapter
- cellenCHIP 384 Funnel

cellenONE®

The cellenONE® is a unique platform combining high accuracy single cell isolation and nanoliter reagent dispensing. Image-based cell isolation ensures only single cells of interest are isolated while gentle piezoelectric droplet generation preserves cell viability and gene expression. The same instrument also performs precision nanoliter dispensing of reagents (both aqueous and organic) allowing miniaturisation of a range of single cell omics workflows.

For more information, visit: https://www.cellenion.com/products/cellenone/

Related Products

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<td>cellenCHIP Accessory Kit</td>
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