

Product Components List

ICELL8® Chip and Reagent 3' DE Kit

| Catalog Nos. | Amount |
|--------------|--------|
| 640164 | 1 rxn |
| 640165 | 3 rxn |
| 640166 | 5 rxn |

Description

The ICELL8 Chip and Reagent 3' DE Kit enables Illumina® sequencing and differential gene expression analysis—via transcript 3' end counting—of single cells isolated on the ICELL8 Single-Cell System. Following staining, dilution, and dispensation of cells into the 5,184-nanowell ICELL8 3' DE Chip, CellSelect® Software is used to automatically identify wells containing single, viable cells, and to direct nanowell-specific delivery of coupled RT-PCR reagents provided in the kit—including a 5' SMART® primer. cDNA synthesis is oligo(dT)-primed using uniquely barcoded primers that have been preprinted into each nanowell of the ICELL8 3' DE Chip, and PCR amplification of the barcoded cDNA is then performed in-chip. Full-length amplicons are pooled and purified off-chip, and sequencing libraries are prepared using a transposase-based method that enriches for cDNA derived from mRNA 3' ends followed by a limited-cycle PCR amplification step that results in incorporation of Illumina index sequences. Most importantly, the kit allows for efficient, cost-effective, and high-throughput single-cell gene expression analysis.

Package Contents:

640164 (1 rxn):

- ICELL8 3' DE Reagent Kit (Cat. No. 640167) [>>View Components](#)
- ICELL8 3' DE Chip (Cat. No. 640143) [>>View Components](#)
- ICELL8 Collection Kit (Cat. No. 640048) [>>View Components](#)
- ICELL8 Loading Kit (Cat. No. 640109) [>>View Components](#)

640165 (3 rxn):

- 3 x ICELL8 3' DE Reagent Kit (Cat. No. 640167) [>>View Components](#)
- 3 x ICELL8 3' DE Chip (Cat. No. 640143) [>>View Components](#)
- 3 x ICELL8 Collection Kit (Cat. No. 640048) [>>View Components](#)
- 3 x ICELL8 Loading Kit (Cat. No. 640109) [>>View Components](#)

640166 (5 rxn):

- 5 x ICELL8 3' DE Reagent Kit (Cat. No. 640167) [>>View Components](#)
- 5 x ICELL8 3' DE Chip (Cat. No. 640143) [>>View Components](#)
- 5 x ICELL8 Collection Kit (Cat. No. 640048) [>>View Components](#)
- 5 x ICELL8 Loading Kit (Cat. No. 640109) [>>View Components](#)

For storage conditions, please see the Certificate of Analysis supplied with each component.

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Product Components List

Cat. Nos. 640164, 640165, 640166

ICELL8 Chip and Reagent 3' DE Kit

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- ICELL8 Chip and Reagent 3' DE Kit User Manual
 - ICELL8 Imaging System User Manual
 - CellSelect Software User Manual
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This document has been reviewed and approved by the Quality Department.