

## SMART-Seq® v4 Ultra® Low Input RNA Kit for the Fluidigm® C1™ System, IFCs Components

Catalog Nos.	Amount	Lot Number
635027 (Not sold separately; sold as a part of 635025)	Each	Specified on product label.
635028 (Not sold separately; sold as a part of 635026)	Each	Specified on product label.

### Description

The SMART-Seq v4 Ultra Low Input RNA Kit for the Fluidigm C1 System, IFCs Components is sold as a part of the SMART-Seq v4 Ultra Low Input RNA Kit for the Fluidigm C1 System, IFCs. This kit allows high-quality cDNA synthesis starting from 96 single cells that have been isolated and processed with the Fluidigm C1 Single-Cell Auto Prep System. Employing locked nucleic acid (LNA) technology integrated with SMART® technology, this kit offers remarkable sensitivity, enriches for full-length transcripts, and maintains true representation of the original mRNA—critical factors for transcriptome analysis. This kit has higher sensitivity than the previous generation (the SMARTer® Ultra Low Input RNA Kit for the Fluidigm C1 System, IFC), detecting more genes. Genes with high GC content show higher expression with this kit as compared to the previous generation. cDNA libraries generated by this kit have been tested for compatibility with Illumina® sequencing platforms.

### Package Contents

<u>635027</u> (4 IFCs)	<u>635028</u> (10 IFCs)	
12 µl	28 µl	SMART-Seq v4 Oligonucleotide (48 µM)
12 µl	30 µl	PCR Primer II A (12 µM)
45 µl	120 µl	5X Ultra Low First-Strand Buffer
25 µl	60 µl	SMARTScribe™ Reverse Transcriptase (100 U/µl)
10 µl	24 µl	3' SMART-Seq CDS Primer II A (12 µM)
10 µl	24 µl	RNase Inhibitor (40 U/µl)
100 µl	200 µl	10X Lysis Buffer
120 µl	300 µl	Nuclease-Free Water

### Storage Conditions

- Store 10X Lysis Buffer at –20°C. Once thawed, the buffer can be stored at 4°C.
- Store all other reagents at –20°C.

### Shelf Life

- 1 year from date of receipt under proper storage conditions.

### Shipping Conditions

- Dry ice (–70°C)

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#### Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
 U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

United States/Canada 800.662.2566 (051719)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
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# Certificate of Analysis

Cat. Nos. 635027 & 635028

SMART-Seq v4 Ultra Low Input RNA Kit for the Fluidigm C1 System, IFCs (Not sold separately; sold as a part of 635025 & 635026)

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## Product Documents

Documents for our products are available for download at [takarabio.com/manuals](https://www.takarabio.com/manuals)

The following documents apply to this product:

- SMART-Seq v4 Ultra Low Input RNA Kit for the Fluidigm C1 System, IFCs User Manual

## Quality Control Data

A sample kit from each lot was tested as follows: 10 pg of Control Total RNA was subjected to first-strand cDNA synthesis as described in the SMART-Seq v4 Ultra Low Input RNA Kit for Sequencing User Manual. The first-strand cDNA was then used as template for PCR using 17 cycles. PCR products were purified with an Agencourt AMPure XP Kit (Beckman Coulter, Part No. A63880 or A63881), and resuspended in 17  $\mu$ l of Elution Buffer. 1  $\mu$ l of the PCR reaction was analyzed with an Agilent 2100 Bioanalyzer and a High Sensitivity DNA Kit (Agilent, Cat. No. 5067-4626). The resulting analysis indicated a cDNA size range of approximately 300 bp to 10,000 bp. A peak was manually integrated from 300 bp to 9,000 bp. To calculate the total cDNA output, the concentration (defined by the Bioanalyzer software) was multiplied by 17  $\mu$ l. Outputs ranged from 3.4–17 ng.

It is certified that this product meets the above specifications, as reviewed and approved by the Quality Department.

## SMART-Seq® v4 Ultra® Low Input RNA Kit for the Fluidigm® C1™ System, 4 IFCs Components

### CATALOG NO.

635027, 635028

### NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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### STATEMENT 275

SMART-Seq2 Technology. This product is sold under exclusive license from Ludwig Institute of Cancer Research, Ltd. and is covered by US Patent No. 10266894, Japanese Patent No. 6336080, and European Patent No. 3036336, and pending U.S. patent application and/or pending claims of foreign counterparts. For license information, please contact a Takara Bio USA, Inc. licensing representative by phone at 650.919.7320 or by e-mail at [licensing@takarabio.com](mailto:licensing@takarabio.com).

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1290 Terra Bella Avenue, Mountain View, CA 94043, USA

U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

**United States/Canada**

**Asia Pacific**

**Europe**

**Japan**

800.662.2566

+1.650.919.7300

+33.(0)1.3904.6880

+81.(0)77.565.6999

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