

SMARTer® Ultra® Low RNA Kit for the Fluidigm® C1™ System, IFC Components

Catalog No(s).	Amount	Lot Number
634834 (Not sold separately; sold as a part of 634832)	2 IFCs	Specified on product label.
634835 (Not sold separately; sold as a part of 634833)	10 IFCs	Specified on product label.

Description

The SMARTer Ultra Low RNA Kit for the Fluidigm C₁ System, IFC Components utilizes SMART® technology and reagents to achieve extremely sensitive, unbiased amplification of cDNA transcripts—enabling a direct start from each of 96 single cells that have been isolated and processed with the Fluidigm C₁ Single-Cell Auto Prep System. The kit has been designed to prepare cDNA samples for transcriptome analysis on any Illumina® Genome Analyzer™, HiSeq®, or MiSeq® sequencing instrument.

Package Contents

Box 1:

<u>634834</u>	<u>634835</u>	
• 14 µl	70 µl	SMARTer IIA Oligonucleotide (12 µM)

Box 2:

<u>634834</u>	<u>634835</u>	
• 18 µl	90 µl	3' SMART CDS Primer IIA (12 µM)
• 28 µl	140 µl	5X First-Strand Buffer (RNase-Free)
• 14 µl	70 µl	dNTP Mix (10 mM)
• 10 µl	20 µl	Dithiothreitol (DTT) (100 mM)
• 10 µl	50 µl	IS PCR Primer (12 µM)
• 14 µl	70 µl	RNase Inhibitor (40 U/µl)
• 240 µl	1.2 ml	Dilution Buffer
• 14 µl	70 µl	SMARTScribe™ Reverse Transcriptase (100 U/µl)

Storage Conditions

- Store SMARTer IIA Oligonucleotide at –70°C.
- Store Dilution 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)

Takara Bio USA, Inc.

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Certificate of Analysis

SMARTer® Ultra® Low RNA Kit for the Fluidigm® C1™ System, IFC Components
(Not sold separately)

Cat. Nos. 634834 & 634835

Sold as a part of Cat. Nos.
634832 & 634833

Quality Control Data

A sample kit from each lot was tested as follows: 100 pg of Control Total RNA were subjected to first-strand cDNA synthesis as described in the SMARTer Ultra Low RNA Kit for Illumina Sequencing User Manual (PT5163-1). The cDNA was purified using an Agencourt AMPure XP Kit. The purified first-strand cDNA was then used as template in PCR for 15 cycles. PCR products were purified with AMPure XP beads, and re-suspended in 12 µl of Purification Buffer. 1 µl of the PCR reaction was analyzed with an Agilent BioAnalyzer and a High Sensitivity DNA Kit (Agilent Cat No. 5067-4626). A peak was manually integrated from 400 to 9,000 bp. The resultant analysis indicated an approximate cDNA size range from 400 to 10,000 bp. To obtain the total cDNA output, the concentration defined by BioAnalyzer software was multiplied by 12 µl; outputs ranged from 2–7 ng.

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

SMARTer® Ultra® Low RNA Kit for the Fluidigm® C1™ System, 2 IFCs Components

CATALOG NOS.

634834, 634835

NOTICE TO PURCHASER:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. 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 prior written approval of Takara Bio USA, Inc.

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