

## SMARTer® smRNA-Seq Kit for Illumina® Components

Catalog No(s).	Amount	Lot Number
635032 (Not sold separately; sold as a part of 635029)	12 rxns	Specified on product label.
635033 (Not sold separately; sold as a part of 635030)	48 rxns	Specified on product label.
635034 (Not sold separately; sold as a part of 635031)	96 rxns	Specified on product label.

### Description

The SMARTer smRNA-Seq Kit for Illumina Components are used with indexing primer sets as part of the SMARTer smRNA-Seq Kit for Illumina to generate small RNA-seq libraries for sequencing on Illumina platforms. This kit was developed to work directly with total RNA or enriched small RNA (including microRNA), for inputs ranging from 1 ng–2 µg. By incorporating features of the SMARTer Stranded RNA-Seq kits, including Takara Bio’s proprietary SMART® (Switching Mechanism at the 5’ end of RNA Template) technology, and primers that include locked nucleic acids (LNAs), this kit allows users to analyze a wide range of smRNA species and generate sequencing libraries of considerable complexity from as little as 1 ng of input material. Illumina adapter and index sequences are incorporated in a ligation-free manner during library amplification, ensuring that diverse smRNA species are represented with minimal bias.

### Package Contents

#### Package 1:

<b>635032</b> <b>(12 rxns)</b>	<b>635033</b> <b>(48 rxns)</b>	<b>635034</b> <b>(96 rxns)</b>	
5 µl	5 µl	5 µl	Control RNA - miR163s (10 ng/µl)
80 µl	320 µl	640 µl	smRNA Mix 2

#### Package 2:

<b>635032</b> <b>(12 rxns)</b>	<b>635033</b> <b>(48 rxns)</b>	<b>635034</b> <b>(96 rxns)</b>	
30 µl	120 µl	240 µl	smRNA Mix 1
12 µl	48 µl	96 µl	ATP
12 µl	48 µl	96 µl	RNase Inhibitor (40 U/µl)
10 µl	24 µl	48 µl	Poly(A) Polymerase (2 U/µl)
12 µl	48 µl	96 µl	3’ smRNA dT Primer
24 µl	96 µl	192 µl	PrimeScript™ RT (200 U/µl)
1.25 ml	2 x 1.25 ml	4 x 1.25 ml	Nuclease-Free Water
1.25 ml	3 x 1.25 ml	5 x 1.25 ml	Tris Buffer (5 mM)

### Storage Conditions

- Store Package 1 at –70°C.
- Store Package 2 at –20°C.

#### Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: [technical\\_support@takarabio.com](mailto:technical_support@takarabio.com)

United States/Canada 800.662.2566 (011823)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
--	---------------------------------	------------------------------	-----------------------------

# Certificate of Analysis

Cat. Nos. 635032, 635033 & 635034

SMARTer® smRNA-Seq Kit for Illumina® Components (Not sold separately) Sold as a part of 635029, 635030, & 635031

---

## Expiration Date

- Specified on product label.

## Shipping Conditions

- Dry ice

## Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)  
The following documents apply to this product:

- SMARTer smRNA-Seq Kit for Illumina User Manual

## Quality Control Data

A sample kit from each lot was tested as follows: Illumina-ready small RNA sequencing libraries were generated from 1 ng of Human Brain Total RNA (Thermo Fisher Scientific Cat. No. AM7962) and 1 ng of Control RNA - miR163s (22 nt synthetic miRNA) as described in the SMARTer smRNA-Seq Kit for Illumina User Manual, using 16 cycles and 12 cycles of PCR, respectively. Purified libraries were quantified using the Qubit 2.0 Fluorometer (Thermo Fisher Scientific Cat. No. Q32866) with the Qubit dsDNA HS Assay Kit (Thermo Fisher Scientific Cat. No. Q32851), resulting in an output of at least 9 ng/μl for the Human Brain Total RNA input, and 14 ng/ul for the Control RNA - miR163s input. Libraries were analyzed with an Agilent Bioanalyzer and High Sensitivity DNA Kit (Agilent, Cat. No. 5067-4626). The Bioanalyzer electropherogram showed a sharp peak of 175 bp for the Control RNA - miR163s library, with minimal extra peaks or background.

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

## SMARTer® smRNA-Seq Kit for Illumina® Components

### CATALOG NOS.

635032, 635033 & 635034

### 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.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, and described on the product's web page at <http://www.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

### 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).

### TRADEMARKS:

©2023 Takara Bio Inc. All Rights Reserved.

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.

---

#### Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: [technical\\_support@takarabio.com](mailto:technical_support@takarabio.com)

**United States/Canada**

800.662.2566

**Asia Pacific**

+1.650.919.7300

**Europe**

+33.(0)1.3904.6880

**Japan**

+81.(0)77.565.6999

1/18/2023