

SMARTer® Stranded RNA-Seq Components

Catalog No(s).	Amount	Lot Number
634840 (Not sold separately; sold as a part of 634836)	12 rxns	Specified on product label.
634841 (Not sold separately; sold as a part of 634837)	24 rxns	Specified on product label.
634842 (Not sold separately; sold as a part of 634838)	48 rxns	Specified on product label.
634843 (Not sold separately; sold as a part of 634839)	96 rxns	Specified on product label.

Description

The SMARTer Stranded RNA-Seq Kit includes the components needed to generate indexed cDNA libraries suitable for next-generation sequencing (NGS) on any Illumina® platform, starting from as little as 100 pg of polyA-purified or ribosomal RNA-depleted RNA. The kit utilizes our patented SMART® (Switching Mechanism At 5' end of RNA Template) technology, coupled with PCR amplification, to generate Illumina-compatible libraries without the need for enzymatic clean-up or adapter ligations. The directionality of the template-switching reaction preserves the strand orientation of the RNA, making it possible to obtain strand-specific sequencing data from the synthesized cDNA.

Package Contents

Box 1:

<u>634840</u> (12 rxns)	<u>634841</u> (24 rxns)	<u>634842</u> (48 rxns)	<u>634843</u> (96 rxns)	
24 µl	48 µl	96 µl	192 µl	SMARTer Stranded Oligonucleotide (12 µM)*
5 µl	5 µl	5 µl	5 µl	Control Mouse Liver Total RNA (1 µg/µl)

Box 2:

<u>634840</u> (12 rxns)	<u>634841</u> (24 rxns)	<u>634842</u> (48 rxns)	<u>634843</u> (96 rxns)	
12 µl	24 µl	48 µl	96 µl	SMART Stranded N6 Primer (12 µM)*
48 µl	96 µl	192 µl	384 µl	5X First-Strand Buffer (RNase-Free)
24 µl	48 µl	96 µl	192 µl	dNTP Mix (dATP, dCTP, dGTP, and dTTP, each at 10 mM)
12 µl	24 µl	48 µl	96 µl	Dithiothreitol (DTT; 100 mM)
24 µl	48 µl	96 µl	192 µl	SMARTScribe™ Reverse Transcriptase (100 U/µl)
1 ml	1 ml	2 x 1 ml	3 x 1 ml	Nuclease-Free Water
55 µl	55 µl	55 µl	55 µl	RNase Inhibitor (40 U/µl)
240 µl	480 µl	960 µl	2 ml	Stranded Elution Buffer

* Takara Bio USA, Inc. proprietary sequences.

Storage Conditions

- Store Control Mouse Liver Total RNA and SMARTer Stranded Oligonucleotide at -70°C .
- Store Stranded Elution Buffer at -20°C . Once thawed, the buffer can be stored at Room Temperature.
- Store all other reagents at -20°C .

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. Nos. 634840, 634841, 634842, 634843

SMARTer® Stranded RNA-Seq Components

Shelf Life

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

Shipping Conditions

- Box 1 & Box 2: Dry ice (-70°C)

Product Documents

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

The following documents apply to this product:

- SMARTer Stranded RNA-Seq Kit User Manual

Quality Control Data

A sample kit from each lot was tested as follows: 1 ng of Control Mouse Liver Total RNA was subjected to first-strand cDNA synthesis as described in the SMARTer Stranded RNA-Seq Kit User Manual. The cDNA was purified using an Agencourt AMPure XP Kit. The purified first-strand cDNA was then used as template in PCR for 16 cycles. PCR products were purified with AMPure XP beads, and resuspended in 20 µl of Stranded Elution Buffer. The PCR product was diluted 1:4, and 1 µl of the diluted 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 150 bp to 1,000 bp. To obtain the total library output, the concentration defined by BioAnalyzer software was multiplied by 4, yielding an output concentration of at least 7.5 nM.

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

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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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