

SMARTer® Stranded Total RNA Sample Prep Kit - HI Mammalian Components

Catalog Nos.	Amount	Lot Number
634879 (Not sold separately; Sold as a part of 634873)	12 rxns	Specified on product label.
634880 (Not sold separately; Sold as a part of 634874)	24 rxns	Specified on product label.
634881 (Not sold separately; Sold as a part of 634875)	48 rxns	Specified on product label.
634882 (Not sold separately; Sold as a part of 634876, 634877, & 634878)	96 rxns	Specified on product label.

Description

The SMARTer Stranded Total RNA Sample Prep Kit - HI Mammalian Components only contains the components for rRNA removal and cDNA synthesis; reagents necessary for library amplification and addition of Illumina® indexes are included with the complete SMARTer Stranded Total RNA Sample Prep Kit - HI Mammalian. The SMARTer Stranded Total RNA Sample Prep Kit - HI Mammalian generates libraries for RNA sequencing (RNA-seq), compatible with Illumina platforms for mammalian samples. The kit is designed to work with input ranges from 100 ng–1 µg of total RNA. This kit incorporates both RiboGone™ and SMART® (Switching Mechanism at 5' end of RNA Template) technology, and processes ribosomal RNA (rRNA) removal (5S, 5.8S, 18S, and 28S nuclear rRNA sequences), as well as some mitochondrial rRNA sequences (12S), from human, mouse, or rat full-length or sheared total RNA, followed by cDNA synthesis and Illumina library preparation. RNA-seq libraries prepared with this kit are indexed.

Package Contents

Package 1:

<u>634879</u> (12 rxns)	<u>634880</u> (24 rxns)	<u>634881</u> (48 rxns)	<u>634882</u> (96 rxns)	
5 µl	5 µl	5 µl	5 µl	Control Mouse Liver Total RNA (1 µg/µl)
24 µl	48 µl	96 µl	192 µl	SMARTer Stranded Oligonucleotide (12 µM)*

Package 2:

<u>634879</u> (12 rxns)	<u>634880</u> (24 rxns)	<u>634881</u> (48 rxns)	<u>634882</u> (96 rxns)	
24 µl	48 µl	96 µl	192 µl	10X Total RNA First-Strand Buffer
12 µl	24 µl	48 µl	96 µl	10X Total RNA Hyb Buffer
24 µl	48 µl	96 µl	192 µl	RNase H
17 µl	34 µl	68 µl	136 µl	10X RNase H Buffer
55 µl	110 µl	220 µl	440 µl	RNase Inhibitor (40 U/µl)
48 µl	96 µl	192 µl	384 µl	DNase I (5 U/µl)
240 µl	480 µl	960 µl	1,920 µl	Stranded Elution Buffer
24 µl	48 µl	96 µl	192 µl	PrimeScript™ Reverse Transcriptase (200 U/µl)
1 ml	1 ml	2 ml	3 ml	Nuclease-Free Water

*Takara Bio proprietary sequences

Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: technical_support@takarabio.com

United States/Canada 800.662.2566 (062123)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
--	---------------------------------	------------------------------	-----------------------------

Certificate of Analysis

Cat. Nos. 634879, 634880, 634881 & 634882

SMARTer Stranded Total RNA Sample Prep Kit - HI Mammalian Components

(Not sold separately)

Sold as a part of 634873, 634874, 634875, 634876, 634877 & 634878

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 components at -20°C .

Expiration Date

- Specified on product label.

Shipping Conditions

- Dry ice

Product Documents

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

The following documents apply to this product:

- SMARTer Stranded Total RNA Sample Prep Kit - HI Mammalian User Manual

Quality Control Data

A sample kit from each lot was tested as follows: 1 μg of Mouse Liver RNA was converted to an Illumina-ready cDNA sequencing library with the SMARTer Stranded Total RNA Sample Prep Kit - HI Mammalian as described by the user manual. The resulting library was run on an Agilent Bioanalyzer using a High Sensitivity DNA Kit (Agilent Biotechnologies, Cat. No. 5067-4626) and confirmed to be between 200–1,000 bp in length and have a concentration between 2–10 $\text{ng}/\mu\text{l}$. The libraries were then normalized to 500 $\text{pg}/\mu\text{l}$, and qPCR was performed for actin and 28S loci. Delta Ct measurement confirmed that the 28S locus were sufficiently decreased relative to actin.

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

SMARTer® Stranded Total RNA Sample Prep Kit - HI Mammalian Components

CATALOG NOS.

634879, 634880, 634881 & 634882

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.

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

United States/Canada

800.662.2566

Asia Pacific

+1.650.919.7300

Europe

+33.(0)1.3904.6880

Japan

+81.(0)77.565.6999

6/21/2023