

## SMART-Seq® Total RNA High Input (RiboGone™ Mammalian)

Catalog Nos.	Amount	Lot Number
635046	24 rxns	Specified on product label.
635047 (Also sold as part of 635045)	96 rxns	Specified on product label.

### Description

SMART-Seq Total RNA High Input (RiboGone Mammalian) can be used to prepare total RNA-sequencing (RNA-seq) libraries compatible with Illumina® platforms from mammalian samples. Up to 384 indexed libraries can be prepared using Unique Dual Index Kits (634752–634756, sold separately). The kit is designed to work with input ranges from 100 ng–1 µg of total RNA and enables the analysis of both coding and non-coding RNA species with strand orientation information and contains components for both ribosomal RNA (rRNA) removal and cDNA synthesis. The kit incorporates RiboGone Mammalian for the removal of rRNA (5S, 5.8S, 18S, and 28S nuclear rRNA) and some mitochondrial rRNA (12S) sequences from human, mouse, or rat full-length or sheared total RNA, followed by cDNA synthesis using SMART® (Switching Mechanism at 5' end of RNA Template) technology.

### Package Contents

#### Package 1:

<u>635046</u> (24 rxns)	<u>635047</u> (96 rxns)	
5 µl	5 µl	Control Mouse Liver Total RNA (1 µg/µl)
48 µl	192 µl	SMARTer® Stranded Oligonucleotide (12 µM)*

#### Package 2:

<u>635046</u> (24 rxns)	<u>635047</u> (96 rxns)	
48 µl	192 µl	Total RNA First-Strand Buffer (10X)
24 µl	96 µl	Total RNA Hyb Buffer (10X)
48 µl	192 µl	RNase H
34 µl	136 µl	RNase H Buffer (10X)
110 µl	440 µl	RNase Inhibitor (40 U/µl)
96 µl	384 µl	DNase I (5 U/µl)
1 ml	4 ml	Stranded Elution Buffer
48 µl	192 µl	PrimeScript™ Reverse Transcriptase (200 U/µl)
1 ml	3 ml	Nuclease-Free Water
50 µl	200 µl	SeqAmp™ DNA Polymerase
1.25 ml	5 ml	SeqAmp PCR Buffer (2X)

\*Takara Bio proprietary sequences

### Storage Conditions

- Store Package 1 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.

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# Certificate of Analysis

SMART-Seq Total RNA High Input (RiboGone Mammalian)

Cat. Nos. 635046 & 635047

Also sold as part of 635045

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## 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:

- SMART-Seq Total RNA High Input (RiboGone Mammalian) User Manual
- Unique Dual Index Kits Protocol-At-A-Glance

## Quality Control Data

A sample kit from each lot was tested as follows: 1 µg of Control Mouse Liver Total RNA was converted to an Illumina-ready cDNA sequencing library with SMART-Seq Total RNA High Input (RiboGone Mammalian) as described in the user manual. The resulting library was run on an Agilent Bioanalyzer using a High Sensitivity DNA Kit (Agilent Technologies, Cat. No. 5067-4626), confirmed to be between 200–1,000 bp in length, and have a concentration between 2–10 ng/µl. The libraries were then normalized to 500 pg/µl, 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.

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### CATALOG NOS.

635046 & 635047

### 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 392

This product is protected by U.S. Patent Nos. 10,941,397 and 10,954,510 and European Patent No. 1485394804 and Japanese Patent No. 2016-524004 and corresponding U.S. pending patents and other foreign patents pending. For further license information, please contact a Takara Bio USA licensing representative by email at [licensing@takarabio.com](mailto:licensing@takarabio.com).

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