

SMART-Seq® mRNA HT

Catalog Nos.	Amount	Lot Number
634795 (Also sold as part of 634792)	24 rxns	Specified on product label.
634796 (Also sold as part of 634791, 634793 & 634794)	96 rxns	Specified on product label.

Description

SMART-Seq mRNA HT is designed for the synthesis of high-quality cDNA directly from 1–100 intact cells or ultra-low amounts of total RNA (10–1,000 pg). By integrating locked nucleic acid (LNA) and SMART® technologies, this kit offers remarkable sensitivity, enriches for full-length transcripts, and maintains a true representation of the original mRNA pool, which are critical factors for transcriptome analysis. The simplified workflow of this kit makes processing samples easy. cDNA generated with this kit can be used to produce Illumina®-ready sequencing libraries.

Package Contents

Package 1:

<u>634795</u>	<u>634796</u>	
(24 rxns)	(96 rxns)	
5 µl	5 µl	Control Total RNA (1 µg/µl)

Package 2:

<u>634795</u>	<u>634796</u>	
(24 rxns)	(96 rxns)	
24 µl	96 µl	SMART-Seq HT Oligonucleotide
48 µl	192 µl	3' SMART-Seq CDS Primer II A
60 µl	150 µl	RNase Inhibitor (40 U/µl)
48 µl	192 µl	SMARTScribe™ Reverse Transcriptase (100 U/µl)
250 µl	1 ml	One-Step Buffer
20 µl	50 µl	SeqAmp™ DNA Polymerase
500 µl	1.85 ml	10X Lysis Buffer
1.7 ml	6.8 ml	Elution Buffer (10 mM Tris-Cl, pH 8.5)
1 ml	4 ml	Nuclease-Free Water

Storage Conditions

- Store Control Total RNA at –70°C.
- Store 10X Lysis Buffer at –20°C. Once thawed, the buffer can be stored at 4°C.
- Store Elution Buffer at –20°C. Once thawed, the buffer can be stored at Room Temperature.
- Store all other reagents at –20°C.

Expiration Date

- Specified on product label.

Takara Bio USA, Inc.

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Certificate of Analysis

SMART-Seq mRNA HT

Cat. Nos. 634795 & 634796

(Also sold as part of 634791, 634792, 634793 & 634794)

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:

- SMART-Seq mRNA HT User Manual
- SMART-Seq mRNA HT LP User Manual

Quality Control Data

A sample kit from each lot of SMART-Seq mRNA HT was functionally tested as follows: 10 pg of Control Total RNA was subjected to one-step cDNA synthesis and amplification as described in the SMART-Seq mRNA HT User Manual. The first-strand cDNA was amplified using 17 cycles during the one-step RT-PCR reaction. PCR products were purified with a NucleoMag NGS Clean-up and Size Select kit (Takara Bio USA, Cat. No. 744970) and resuspended in 17 μ l of Elution Buffer. 1 μ l of the PCR reaction was analyzed with an Agilent 2100 Bioanalyzer and a High Sensitivity DNA Kit (Agilent Technologies, Cat. No. 5067-4626). The resulting analysis indicated a cDNA size range of approximately 400–10,000 bp. A peak was manually integrated from 300–9,000 bp, revealing a concentration of at least 200 pg/ μ l.

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

SMART-Seq® mRNA HT

CATALOG NOS.

634795 & 634796

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 e-mail at licensing@takarabio.com.

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7/24/2023