

SMART-Seq® mRNA Single Cell

Catalog Nos.	Amount	Lot Number
634789	24 rxns	Specified on product label.
634790	96 rxns	Specified on product label.

Description

SMART-Seq mRNA Single Cell is powered by robust chemistry that provides the highest sensitivity for single-cell applications. It has been validated for performing high-quality cDNA synthesis with 2 pg of total RNA input and with single cells known to have low RNA content (e.g., peripheral blood mononuclear cells).

Package Contents

Package 1:

<u>634789</u> (24 rxns)	<u>634790</u> (96 rxns)	
5 µl	5 µl	Control Total RNA (1 µg/µl)

Package 2:

<u>634789</u> (24 rxns)	<u>634790</u> (96 rxns)	
500 µl	1.85 ml	10X Lysis Buffer
60 µl	240 µl	RNase Inhibitor (40 U/µl)
1.7 ml	6.8 ml	Nuclease-Free Water
25 µl	100 µl	SMART-Seq sc TSO
50 µl	200 µl	3' SMART-Seq CDS Primer II A
50 µl	200 µl	SMARTScribe™ II Reverse Transcriptase
100 µl	400 µl	SMART-Seq sc First Strand Buffer (5X)
75 µl	250 µl	SeqAmp™ DNA Polymerase
1.25 ml	5 ml	SeqAmp CB PCR Buffer (2X)
25 µl	100 µl	PCR Primer
1.7 ml	2 x 1.7 ml	Elution Buffer (10 mM Tris-Cl, pH 8.5)

Storage Conditions

- Store Control Total RNA at -70°C .
- Store all other reagents at -20°C .

Expiration Date

- Specified on product label.

Shipping Conditions

- Dry ice

Takara Bio USA, Inc.

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Product Documents

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

The following documents apply to this product:

- SMART-Seq mRNA Single Cell User Manual

Quality Control Data

A sample kit from each lot was tested as follows: 2 pg of Control Total RNA was subjected to first-strand cDNA synthesis as described in the SMART-Seq mRNA Single Cell User Manual. The first-strand cDNA was then used as a template for PCR using 19 cycles. PCR products were purified with NucleoMag NGS Clean-up and Size Select (Takara Bio USA, Catalog 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, Cat. No. 5067-4626). The resultant analysis indicated the cDNA size range was approximately 200 bp–10,000 bp. A peak was manually integrated from 200 bp–9,000 bp and indicated a yield of at least 500 pg/ μ l.

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

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CATALOG NOS.

634789 & 634790

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 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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