

## 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  $-70^{\circ}\text{C}$ .
- Store all other reagents at  $-20^{\circ}\text{C}$ .

### Expiration Date

- Specified on product label.

### Shipping Conditions

- Dry ice

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#### Takara Bio USA, Inc.

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## Product Documents

Documents for our products are available for download at [takarabio.com/manuals](https://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  $\mu$ l of Elution Buffer. 1  $\mu$ 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/ $\mu$ l.

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

## SMART-Seq® mRNA Single Cell

### CATALOG NO.

634789 & 634790

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### STATEMENT 275

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### STATEMENT 385

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