

## SMART-Seq® HT Kit

Catalog Nos.	Amount	Lot Number
634455	12 rxns	Specified on product label.
634456	48 rxns	Specified on product label.
634437	96 rxns	Specified on product label.
634438	192 rxns	Specified on product label.

### Description

The SMART-Seq HT Kit is designed for the synthesis of high-quality cDNA directly from 1–100 intact cells or ultra-low amounts of total RNA (10–1000 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 libraries generated with this kit have been tested for compatibility with Illumina® sequencing platforms.

### Package Contents

#### Box 1:

<u>634455</u> (12 rxns)	<u>634456</u> (48 rxns)	<u>634437</u> (96 rxns)	<u>634438</u> (192 rxns)	
5 µl	5 µl	5 µl	2 x 5 µl	Control Total RNA (1 µg/µl)

#### Box 2:

<u>634455</u> (12 rxns)	<u>634456</u> (48 rxns)	<u>634437</u> (96 rxns)	<u>634438</u> (192 rxns)	
12 µl	48 µl	96 µl	2 x 96 µl	SMART-Seq HT Oligonucleotide
24 µl	96 µl	192 µl	2 x 192 µl	3' SMART-Seq CDS Primer II A
30 µl	75 µl	150 µl	300 µl	RNase Inhibitor (40 U/µl)
125 µl	500 µl	1 ml	2 x 1 ml	One-Step Buffer
24 µl	96 µl	192 µl	2 x 192 µl	SMARTScribe™ Reverse Transcriptase (100 U/µl)
20 µl	20 µl	50 µl	2 x 50 µl	SeqAmp™ DNA Polymerase
230 µl	920 µl	1.85 ml	2 x 1.85 ml	10X Lysis Buffer
1.7 ml	2 x 1.7 ml	6.8 ml	2 x 6.8 ml	Elution Buffer (10 mM Tris-Cl, pH 8.5)
1 ml	2 x 1 ml	4 ml	2 x 4 ml	Nuclease-Free Water

### 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](http://takarabio.com/manuals)

The following documents apply to this product:

- SMART-Seq HT Kit User Manual

## Quality Control Data

A sample kit from each lot of the SMART-Seq HT Kit 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 HT Kit 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, Catalog No. 744970) and resuspended in 17 µl of Elution Buffer. 1 µl of the PCR reaction was analyzed with an Agilent 2100 Bioanalyzer and a High Sensitivity DNA Kit (Agilent, 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/µl.

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

## SMART-Seq® HT Kit

### CATALOG NOS.

634437, 634438, 634455 & 634456

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### STATEMENT 275

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### STATEMENT 388

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