

## SMARTer® Pico PCR cDNA Synthesis Kit Components

Catalog No.	Amount	Lot Number
634927 (Not sold separately) Sold as a part of Cat. No. 634928	10 rxns	Specified on product label.

### Description

The SMARTer Pico kit utilizes our unique SMART® technology coupled with PCR amplification, to generate high yields of full-length double-stranded cDNA suitable for various applications, including cDNA subtraction, nondirectional cloning and preparation of complex cDNA probes. The SMARTer Pico PCR cDNA Synthesis Kit includes the same components as the original Super SMART PCR cDNA Synthesis Kit plus an improved SMARTer II A oligo and SMARTScribe™ Reverse Transcriptase, which provide higher specificity and increased yield. The components of the SMARTer Pico PCR cDNA Synthesis Kit are sufficient for 10 cDNA synthesis reactions.

### Package Contents

#### Box 1:

- 2x35 µl SMARTer II A Oligonucleotide (12 µM)
- 5 µl Control Mouse Liver Total RNA (1 µg/µl)

#### Box 2:

- 70 µl 3' SMART CDS Primer II A (12 µM)
- 250 µl 5X First-Strand Buffer (RNase-Free)
- 200 µl 5' PCR Primer II A (12 µM)
- 250 µl dNTP Mix (10 mM of each dNTP)
- 50 µl DTT (100 mM)
- 2x1 ml Deionized H<sub>2</sub>O
- 55 µl SMARTScribe Reverse Transcriptase (100 U/µl)
- 55 µl RNase Inhibitor (40 U/µl)

### Storage Conditions

- Store SMARTer II A Oligonucleotide and Control RNA at -70°C.
- Store all other components at -20°C.

### Shelf Life

- 1 year from date of receipt under proper storage conditions.

### Shipping Conditions

- Dry ice (-70°C)

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#### Clontech Laboratories, Inc.

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# Certificate of Analysis

Cat. No. 634927

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## Product Documents

Documents for Clontech® products are available for download at [www.clontech.com/manuals](http://www.clontech.com/manuals).

The following documents apply to this product:

- SMARTer Pico PCR cDNA Synthesis Kit User Manual (PT4098-1)

## Quality Control Data

A sample kit from each lot was tested as follows: 1 ng of Control Mouse Liver Total RNA was subjected to first-strand cDNA synthesis as described in the SMARTer Pico PCR cDNA Synthesis Kit User Manual (PT4098-1). The reaction was purified using a NucleoSpin® Gel and PCR Clean-Up kit, and 80 µl of the purified first-strand reaction product was used for PCR. A range of PCR cycles (18, 21, 24, and 27) was performed and 5 µl of the PCR reaction was electrophoresed on a 1.2% agarose/EtBr gel. A moderately strong smear from 0.5–3.0 kb was observed.

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