

## In-Fusion® SMARTer® PCR cDNA Synthesis Kit

Catalog No.	Amount	Lot Number
634934 (Not sold separately)	10 rxns	Specified on product label.

### Description

The In-Fusion SMARTer PCR cDNA Synthesis Kit includes all the components needed to perform ten cDNA syntheses from nanogram amounts of total or poly A<sup>+</sup> RNA. The kit utilizes our unique SMART® (Switching Mechanism At 5' end of RNA Template) technology coupled with PCR amplification to generate high yields of full-length double-stranded cDNA. The amplified cDNA is ready for directional cloning into the pSMART2IFD Linearized Vector included in the In-Fusion SMARTer Directional cDNA Library Construction Kit, or into any vector of your choice.

### Package Contents

#### Box 1:

- 10 µl SMARTer V Oligonucleotide (12 µM)
- 5 µl Control Mouse Liver Total RNA (1 µg/µl)

#### Box 2:

- 10 µl 3' In-Fusion SMARTer CDS Primer (12 µM)
- 40 µl 5X First-Strand Buffer (RNase-Free)
- 100 µl dNTP mix (10 mM each)
- 50 µl Dithiothreitol (100 mM)
- 12 µl SMARTScribe™ Reverse Transcriptase (100 U/µl)
- 10 µl RNase Inhibitor (40 U/µl)
- 200 µl 3' In-Fusion SMARTer PCR Primer (12 µM)
- 200 µl 5' PCR Primer II A (12 µM)
- 100 µl Glycogen (20 µg/µl)
- 1 ml Deionized Water
- 200 µl Sodium Acetate (3M; pH 4.8 )

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#### Clontech Laboratories, Inc.

A Takara Bio Company  
1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [tech@clontech.com](mailto:tech@clontech.com)

United States/Canada	Asia Pacific	Europe	Japan
800.662.2566	+1.650.919.7300	+33.(0)1.3904.6880	+81.(0)77.543.6116
(032816)			

**Box 3:**

- 30 ml 1X Fractionation Column Buffer
- 20 columns CHROMA SPIN™ + TE-1000

**Storage Conditions**

- Store Box 1 at  $-70^{\circ}\text{C}$ .
- Store Box 2 at  $-20^{\circ}\text{C}$ .
- Store Box 3 at room temperature.

**Shelf Life**

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

**Shipping Conditions**

- Box 1 & Box 2: Dry ice ( $-70^{\circ}\text{C}$ )
- Box 3: Room temperature

**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:

- In-Fusion SMARTer Directional cDNA Library Construction Kit User Manual (PT5147-1)

**Quality Control Data**

A sample kit from each lot was tested as follows: 10 ng of the Control Mouse Liver Total RNA was subjected to first-strand cDNA synthesis using 18, 21 and 24 PCR cycles. 5  $\mu\text{l}$  of PCR product was electrophoresed on a 1.2% agarose gel. A moderately strong smear from 0.5–5 kb was observed. cDNA synthesis was followed by LD-PCR and CHROMA SPIN purification according to the User Manual (PT5147-1). From a 100  $\mu\text{l}$  PCR reaction, the typical yield of ethanol-precipitated cDNA after CHROMA SPIN 1000 column fractionation was  $> 1.25 \mu\text{g}$ .

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U.S. Technical Support: [tech@clontech.com](mailto:tech@clontech.com)

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**United States/Canada**

**Asia Pacific**

**Europe**

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