

Marathon® cDNA Amplification Kit Components

Catalog No(s).	Amount	Lot Number
634952 (Not sold separately) Sold as a part of 634913	100 rxns	Specified on product label.

Description

This kit contains reagents for (1) making adaptor-ligated ds cDNA from poly A⁺ RNA and (2) performing 5' and 3' Marathon RACE PCR using gene-specific primers and a mixture of thermostable DNA polymerases supplied by the user. This kit contains sufficient reagents for 5 cDNA synthesis reactions and 100 PCR reactions.

Package Contents

Box 1 of 2

5 µl Control Human Placental Poly A⁺ RNA (1 mg/ml)

Box 2 of 2

5 µl AMV Reverse Transcriptase (20 U/µl)
 10 µl cDNA Synthesis Primer (10 µM)
 500 µl 5X First-Strand Buffer
 25 µl 20X Second-Strand Enzyme Cocktail [*E. coli* DNA polymerase I (6 U/µl), *E. coli* DNA ligase (1.2 U/µl), *E. coli* RNase H (0.25 U/µl)]
 500 µl 5X Second-Strand Buffer
 10 µl T4 DNA Polymerase (3 U/µl)
 10 µl T4 DNA Ligase (400 U/µl)
 20 µl Marathon cDNA Adaptor (10 µM)
 500 µl 5X DNA Ligation Buffer
 100 µl Adaptor Primer 1 (AP1; 10 µM)
 50 µl Nested Adaptor Primer 2 (AP2; 10 µM)
 25 µl Control 5'-RACE TFR Primer (10 µM)
 25 µl Control 3'-RACE TFR Primer (10 µM)
 75 µl PCR Control cDNA (0.1 µg/ml)
 120 µl dNTP Mix (10 mM each dNTP)
 5 ml Tricine-EDTA Buffer
 100 µl 20X EDTA/Glycogen Mix [EDTA (0.2 M), Glycogen (2 mg/ml)]
 500 µl Ammonium Acetate (4 M)
 5 ml Sterile Deionized H₂O

Storage Conditions

- Store Box 1 at -70°C
- Store Box 2 at -20°C

Clontech Laboratories, Inc.

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Certificate of Analysis

Cat. No. 634952

Marathon® cDNA Amplification Kit Components (Not sold separately)

Sold as a part of 634913

Shelf Life

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

Shipping Conditions

- Dry ice (-70°C)

Product Documents

Documents for Clontech® products are available for download at www.clontech.com/manuals

The following documents apply to this product:

- Marathon cDNA Amplification Kit User Manual (PT1115-1)
- Marathon cDNA Amplification Kit Protocol-at-a-Glance (PT1115-2)

Quality Control Data

A sample kit was tested to ensure the quality and performance of this lot of Marathon cDNA Amplification Kits. The Control Human Placental Poly A⁺ RNA was used as the template for first- and second-strand cDNA syntheses. The ds cDNA was then ligated to the Marathon Adaptor. Separate 5' and 3' Marathon RACE reactions produced the expected 2.6 kb 5' fragment and the 2.9 kb 3' fragment from the adaptor-ligated ds cDNA using the AP1 Primer, the positive control TFR Primers, and Advantage® 2 PCR Kit (Cat. No. 639206).

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CATALOG NO.

634952

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