

Universal Primer Mix

Catalog No.
634922

Amount
100 rxns

Lot Number
Specified on product label.

Description

The Universal Primer Mix (UPM) adds suppression PCR elements to the ends of cDNA generated by our SMARTer® RACE 5'/3' Kit (Cat. Nos. 634858 & 634859). The UPM consists of two primers: a long, 45-base primer and a short, 22-base primer. The Long Universal Primer (Long UP) is composed of two parts: the 23 bases at the 3' end of the primer are identical to those at the 5' end of the SMARTer IIA Oligo; the 22 bases at the 5' end of the primer provide the suppression sequence for suppression PCR. The Short Universal Primer (Short UP) sequence is identical to that of the 22 bases at the 5' end of the Long UP. The Short UP, for which the binding site is introduced by the Long UP during the first round of PCR, is present in the UPM at 5 times the concentration of the Long UP.

Primer Sequences

- Long Universal Primer (0.4 µM):
5'-CTAATACGACTCACTATAGGGCAAGCAGTGGTATCAACGCAGAGT-3'
- Short Universal Primer (2 µM):
5'-CTAATACGACTCACTATAGGGC-3'

Package Contents

- 500 µl Universal Primer Mix, 10X

Storage Conditions

- Store at -20°C.

Shelf Life

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

Shipping Conditions

- Dry ice (-70 C)

Quality Control Data

To ensure the quality of this lot of Universal Primer Mix, a sample was tested with the SMARTer RACE 5'/3' Kit. The Control Mouse Heart Total RNA was used as a template for first-strand cDNA synthesis. The resulting first-strand cDNA was then used—along with the Universal Primer Mix, the positive control TFR Primers, and Advantage® 2 PCR Kit (Cat. No. 639207)—in separate 5'- and 3'-RACE reactions that produced the expected 2.1 kb 5' RACE product and 3.1 kb 3' RACE product, respectively.

Clontech Laboratories, Inc.

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NOTICE TO PURCHASER:

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