

In-Fusion® Snap Assembly Master Mix

Catalog Nos.	Amount	Lot Number
638947	10 Rxns	Specified on product label.
638948	50 Rxns	Specified on product label.
638949	250 Rxns	Specified on product label.

Description

In-Fusion Snap Assembly Master Mixes are designed for fast, directional cloning of one or more fragments of DNA into any vector. This proprietary master mix fuses DNA fragments (e.g., PCR-generated sequences and linearized vectors) efficiently and precisely by recognizing a 15-bp overlap at their ends. This 15-bp overlap can be engineered into the primers designed for PCR amplification of the desired sequences. In-Fusion Snap Assembly Master Mixes offer high efficiency, even for applications that can be challenging, including the cloning of long fragments, short oligonucleotides, and multiple fragments.

Package Contents

638947 (10 Rxns):

- 20 µl 5X In-Fusion Snap Assembly Master Mix
- 25 µl pUC19 Control Vector, linearized (50 ng/µl)
- 50 µl 2 kb Control Insert (40 ng/µl)

638948 (50 Rxns):

- 100 µl 5X In-Fusion Snap Assembly Master Mix
- 25 µl pUC19 Control Vector, linearized (50 ng/µl)
- 50 µl 2 kb Control Insert (40 ng/µl)

638949 (250 Rxns):

- 500 µl 5X In-Fusion Snap Assembly Master Mix
- 25 µl pUC19 Control Vector, linearized (50 ng/µl)
- 50 µl 2 kb Control Insert (40 ng/µl)

Storage Conditions

- Store at –20°C

Shelf Life

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

Shipping Conditions

- Dry ice (–70°C)

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. Nos. 638947, 638948, 638949

In-Fusion Snap Assembly Master Mix

Product Documents

Documents for our products are available for download at takarabio.com/manuals

The following documents apply to this product:

- In-Fusion Snap Assembly User Manual
- In-Fusion Snap Assembly Multiple-Insert Cloning Protocol-At-A-Glance
- pUC19 Linearized Vector Information

Quality Control Data

A sample kit from this lot of In-Fusion Snap Assembly Master Mix was used to clone 80 ng of 2 kb Control Insert into linearized pUC19 (50 ng) as described in the User Manual, using an incubation time of 15 min at 50°C. A 2.5- μ l aliquot of the cloning reaction was used to transform 50 μ l of Stellar™ Competent Cells (transformation efficiency $>5 \times 10^8$ cfu/ μ g). After 1 hr of growth in 450 μ l of SOC medium, 50 μ l of the transformation culture was plated onto an LB Amp 100/X-gal/IPTG plate. At least 2,500 white colonies were observed for the cloning reaction.

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

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NOTICE TO PURCHASER:

Our products are to be used for **Research Use Only**. They may not be used for any other purpose, including, but not limited to, use in humans, therapeutic or diagnostic use, or commercial use of any kind. Our products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products or to provide a service to third parties without our prior written approval.

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