

## In-Fusion® HD EcoDry™ Cloning Kit

Catalog No(s).	Amount	Lot Number
639689	8 rxns	Specified on product label.
639690	24 rxns	Specified on product label.
639691	96 rxns	Specified on product label.

### Description

In-Fusion HD EcoDry Cloning Kits are designed for fast, directional cloning of one or more fragments of DNA into any vector. The cornerstone of In-Fusion Cloning technology is Takara Bio's proprietary In-Fusion Enzyme, which 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 by designing primers for amplification of the desired sequences. EcoDry Kits provide the In-Fusion HD enzyme in a convenient, lyophilized format that is stable at room temperature. The EcoDry format simplifies reaction set-up, and reduces variability between reactions. In-Fusion HD Kits offer high cloning efficiency, especially for longer fragments, short oligonucleotides, and multiple fragments.

### Package Contents

#### Cat. No. 639689 (8 rxns):

##### Box 1:

- 5 µl pUC19 Control Vector, linearized (50 ng/µl)
- 10 µl 2 kb Control Insert (40 ng/µl)

##### Box 2:

- 1 In-Fusion HD EcoDry Mix (8-well strip)

#### Cat. No. 639690 (24 rxns):

##### Box 1:

- 5 µl pUC19 Control Vector, linearized (50 ng/µl)
- 10 µl 2 kb Control Insert (40 ng/µl)

##### Box 2:

- 3 In-Fusion HD EcoDry Mix (8-well strip)

#### Cat. No. 639691 (96 rxns):

##### Box 1:

- 5 µl pUC19 Control Vector, linearized (50 ng/µl)
- 10 µl 2 kb Control Insert (40 ng/µl)

##### Box 2:

- 1 In-Fusion HD EcoDry Mix (96-well plate)

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#### Takara Bio USA, Inc.

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# Certificate of Analysis

Cat. No(s). 639689, 639690 & 639691

In-Fusion® HD EcoDry™ Cloning Kit

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## Storage Conditions

- Box 1: -20°C
- Box 2: Store In-Fusion HD EcoDry Mix in a desiccator at room temperature.

## Shelf Life

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

## Shipping Conditions

- Box 1: Dry ice (-70°C)
- Box 2: Room temperature

## Product Documents

Documents for our products are available for download at [takarabio.com/manuals](http://takarabio.com/manuals)

The following documents apply to this product:

- In-Fusion HD EcoDry Cloning Kit User Manual (PT5165-1)
- pUC19 Linearized Vector Information (PT4065-5)

## Quality Control Data

A sample kit from this lot of In-Fusion HD EcoDry Cloning Kits 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 37°C, followed by 15 min at 50°C. A 2.5 µl aliquot of the cloning reaction was used to transform 50 µl of Stellar™ Competent Cells (transformation efficiency >5 x 10<sup>8</sup> cfu/µg). After 1 hr of growth in 450 µl of SOC medium, 50 µl of the transformation culture was plated onto an LB Amp 100/X-gal/IPTG plate. At least 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.

## In-Fusion® HD EcoDry™ Cloning Kit

### CATALOG NOS.

639689, 639690, 639691

### NOTICE TO PURCHASER:

Our products are to be used for research purposes only. They may not be used for any other purpose, including, but not limited to, use in drugs, in vitro diagnostic purposes, therapeutics, or in humans. 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 prior written approval of Takara Bio USA, Inc.

Your use of this product is also subject to compliance with the licensing requirements listed below and described on the product's web page at <http://www.takarabio.com>. It is your responsibility to review, understand and adhere to any restrictions imposed by these statements.

### STATEMENT 28

This product is covered by the claims of U.S. Patent No. 7,575,860 and its foreign counterpart patent claims.

### TRADEMARKS:

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