

## High Fidelity PCR EcoDry™ Premix (Sample-Not for Sale)

**Catalog No.**  
639283

**Amount**  
8 rxns

**Lot Number**  
Specified on product label.

### Description

High Fidelity PCR EcoDry Premix is a convenient dry master mix that allows efficient and accurate amplification of DNA. When reconstituted, each tube of High Fidelity PCR EcoDry Premix contains all of the necessary reagents for high fidelity PCR, including Advantage® 2 Polymerase Mix, dNTPs, and optimized buffer. Advantage 2 combines a 5'-exonuclease-deficient *Taq* DNA Polymerase, a hot-start antibody, and a small amount of a proofreading polymerase for improved fidelity. Simply reconstitute the mix by adding PCR-grade water along with your primers and template. EcoDry Premixes are packaged as individual 8-well tube strips with optically clear sealing caps.

### Package Contents

- 1 x 8-tube strip High Fidelity PCR EcoDry Premix
- 1 Optically Clear PCR Cap Strips (8 caps/strip)

### Storage Conditions

- Always store any unused product at 20–22°C, either (1) back in the original foil pouch, re-sealed with desiccant; or (2) in a desiccator.

### Shelf Life

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

### Shipping Conditions

- 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:

- High Fidelity PCR EcoDry Premix Protocol-at-a-Glance

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#### Takara Bio USA, Inc.

1290 Terra Bella Avenue, Mountain View, CA 94043, USA  
U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

United States/Canada 800.662.2566 (103017)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
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## Quality Control Data

### Raw Material Quality Control

Purified N-terminal deletion mutant of *Taq* DNA Polymerase was tested for enzymatic activity and PCR performance. Assays were performed to detect endonuclease, exonuclease, and DNA contamination.

### Functional Quality Control

#### Amplification from a genomic DNA template:

7 tubes in a sample strip from this lot of High Fidelity PCR EcoDry Premix were tested using 50 ng calf thymus genomic DNA per tube as template, and primers specific for the BPTI gene (400 nM). The 8th tube served as a no-template control. Cycling conditions were as follows:

1 cycle	95°C, 1 min
30 cycles	95°C, 30 sec
	68°C, 3 min
1 cycle	68°C, 3 min

5 µl of the PCR product from each tube was electrophoresed on a 0.8% TAE/agarose gel to confirm the presence of a 2.5-kb band with minimal background. Results of the no-template control showed no visible bands.

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 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.

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U.S. Technical Support: [techUS@takarabio.com](mailto:techUS@takarabio.com)

**United States/Canada**

800.662.2566

**Asia Pacific**

+1.650.919.7300

**Europe**

+33.(0)1.3904.6880

**Japan**

+81.(0)77.565.6999

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