

## Diversify® PCR Random Mutagenesis Kit

<b>Catalog No.</b>	<b>Amount</b>	<b>Lot Number</b>
630703 (Not sold separately)	30 PCR rxns	Specified on product label.

### Description

Complete kit for performing random PCR-based mutagenesis on a DNA sequence of interest. By choosing from a set of predefined experimental conditions, the user can select the desired rate of mutation. The Diversify procedure is optimized for use with Titanium® *Taq* DNA Polymerase (included). This kit is ideal for studying, altering, or improving wild-type protein function.

### Package Contents

- 30 µl 50X Titanium *Taq* DNA Polymerase
- 200 µl 10X Titanium *Taq* PCR Buffer
- 30 µl 50X Diversify dNTP Mix
- 40 µl 50X dNTP Mix (10 mM each)
- 150 µl dGTP (2 mM)
- 120 µl Manganese Sulfate (MnSO<sub>4</sub>; 8 mM)
- 10 µl Control PCR Template (~1ng/µl)
- 10 µl Control Primer Mix (10 µM each)
- 10 µl *Taq* I Restriction Enzyme (20 units/µl)
- 1.25 ml PCR Grade Water

### Storage Conditions

- Store at -20°C

### Shelf Life

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

### Shipping Conditions

- Dry ice (-70°C)

### 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:

- Diversify PCR Random Mutagenesis Kit User Manual (PT3393-1)
- Diversify PCR Random Mutagenesis Kit Protocol-At-A-Glance (PT3393-2)

---

#### 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 (101817)	Asia Pacific +1.650.919.7300	Europe +33.(0)1.3904.6880	Japan +81.(0)77.565.6999
--	---------------------------------	------------------------------	-----------------------------

# Certificate of Analysis

Cat. No. 630703

Diversify® PCR Random Mutagenesis Kit (Not sold separately)

---

## Quality Control Data

A sample kit was tested to ensure the quality and performance of this lot of Diversify PCR Random Mutagenesis Kits. The *Taq* I PCR Fidelity Assay was performed according to the User Manual, and two broad bands were observed on the agarose/EtBr gel from 250–450 bp and from 550–750 bp for buffer condition 9. Both samples produced bright bands at 1 kb. The broad bands observed for buffer condition 1 were less intense than buffer condition 9.

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

## Diversify™ PCR Random Mutagenesis Kit

### CATALOG NO.

630703

### 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.

### TRADEMARKS:

©2017 Takara Bio Inc. All Rights Reserved.

All trademarks are the property of Takara Bio Inc. or its affiliate(s) in the U.S. and/or other countries or their respective owners. Certain trademarks may not be registered in all jurisdictions.

---

#### 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

**Asia Pacific**

+1.650.919.7300

**Europe**

+33.(0)1.3904.6880

**Japan**

+81.(0)77.565.6999

10/18/2017