

Diversify® PCR Random Mutagenesis Kit

Catalog No.

630703

Amount

30 rxns

Lot Number

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 (MnSO₄; 8 mM)
- 10 µl Control PCR Template (~1 ng/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.

Expiration Date

- Specified on product label.

Shipping Conditions

- Dry ice

Product Documents

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

The following documents apply to this product:

- Diversify PCR Random Mutagenesis Kit User Manual
- Diversify PCR Random Mutagenesis Kit Protocol-At-A-Glance

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.

Takara Bio USA, Inc.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: technical_support@takarabio.comUnited States/Canada
800.662.2566
(050323)Asia Pacific
+1.650.919.7300Europe
+33.(0)1.3904.6880Japan
+81.(0)77.565.6999

Diversify™ PCR Random Mutagenesis Kit

CATALOG NO.

630703

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.

Your use of this product is also subject to compliance with the licensing requirements, listed below if applicable, 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:

©2023 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.

2560 Orchard Parkway, San Jose, CA 95131, USA

U.S. Technical Support: technical_support@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

5/3/2023