

Terra™ PCR Direct Genotyping Kit

Catalog No.	Amount	Lot Number
639285	200 rxns	Specified on product label.

Description

The Terra PCR Direct Genotyping Kit contains everything you need to genotype directly from animal tissue such as mouse tails. The Kit includes: Terra PCR Direct DNA Polymerase Mix; a reagent designed to extract DNA efficiently from tissue samples; and an optimized buffer. Terra PCR Direct is a highly sensitive enzyme that allows amplification of targets from small amounts of template. In addition, the enzyme readily amplifies short DNA targets (up to 2 kb), regardless of GC content or template purity.

Package Contents

- 200 µl Terra PCR Direct Polymerase Mix (1.25 U/µl)
- 4 tubes 2X Terra PCR Direct Buffer (with Mg²⁺, dNTPs)—For Genotyping (1.25 ml/tube)
- 5 ml Terra PCR Direct—Tissue Extraction Buffer
- 100 µl Proteinase K
- 3 tubes 5X Loading Dye—For Genotyping (1 ml/tube)

Storage Conditions

- Store at –20°C.
- After thawing, store the Terra PCR Direct—Tissue Extraction Buffer at room temperature.

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:

- Terra PCR Direct Genotyping Kit Protocol-At-A-Glance

Quality Control Data

Raw Material Quality Control

Supercoiled pBR322 DNA and HindIII-digested λ DNA (0.6 µg each) were incubated with 10 units of Terra PCR Direct for 1 hr at 74°C; no nicking, endonuclease, or exonuclease activity was detected.

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
(052223)

Asia Pacific
+1.650.919.7300

Europe
+33.(0)1.3904.6880

Japan
+81.(0)77.565.6999

Functional Quality Control

Direct amplification from mouse tail:

The Terra PCR Direct Genotyping Kit was used in a 50 µl PCR reaction to amplify a 0.54 kb portion of the *Hbb-b1* gene from a 1 mm mouse tail biopsy. Cycling conditions were set as follows:

98°C	2 min	
30 cycles:		
98°C	10 sec]
60°C	15 sec	
68°C	30 sec	

A 4 µl portion of the PCR product was mixed with 1 µl of 5X Loading Dye—For Genotyping and run on a 1% TAE/agarose gel to confirm the presence of 0.54 kb band with minimal background.

Amplification from a genomic DNA template:

The Terra PCR Direct Genotyping Kit was tested in a 50 µl PCR reaction using 100 ng of Mouse genomic DNA as a template and primers (0.3 µM each) specific for a 4 kb fragment of the *Ccnd2* gene. Cycling conditions were set as follows:

98°C	2 min	
30 cycles:		
98°C	10 sec]
68°C	4 min	

A 5 µl portion of the PCR product was run on a 1% TAE/agarose gel to confirm the presence of a 4 kb band with minimal background.

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

Terra™ PCR Direct Genotyping Kit

CATALOG NO.

639285

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

5/22/2023