

Terra™ Direct PCR Genotyping Kit

Catalog No.

639285

Amount

200 rxns

Lot Number

Specified on product label.

Description

The Terra Direct PCR Genotyping Kit contains everything you need to genotype directly from animal tissue such as mouse tails. The kit includes: Terra Direct PCR DNA Polymerase Mix; a reagent designed to extract DNA efficiently from tissue samples; and an optimized buffer. The polymerase included in the mix 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 Direct PCR Polymerase Mix (1.25 U/µl)
- 4 tubes 2X Terra Direct PCR Buffer (with Mg²⁺, dNTPs)—For Genotyping (1.25 ml/tube)
- 5 ml Terra Direct PCR—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 Direct PCR—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 Direct PCR 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 Direct PCR for 1 hr at 74°C; no nicking, endonuclease, or exonuclease activity was detected.

Takara Bio USA, Inc.

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Certificate of Analysis

Cat. No. 639285

Terra Direct PCR Genotyping Kit

Functional Quality Control

Direct amplification from mouse tail:

The Terra Direct PCR 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 Direct PCR 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.

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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.

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