

Tribo™ 5x All-in-One Reverse Transcription Kit (Catalog# TBS4006, 50 RXN, Store at -20°C)

DESCRIPTION

Tribo™ 5x All-in-One Reverse Transcription Kit is optimized to synthesize first-strand cDNA for PCR and qPCR. The optimal first-strand cDNA synthesis temperature is 50°C. The reverse transcription reaction at higher temperatures improves cDNA yields for difficult RNA transcription. This 5x concentrated Premix includes all necessary components for first-strand synthesis: dNTPs, MgCl₂, DTT, oligo(dT) and random primers, RNase inhibitors, and reverse transcriptase. It greatly simplifies the cDNA synthesis process.

APPLICATIONS

This kit can be used for cDNA synthesis.

KEY FEATURES

- Easy-to-use pre-mixed package (All in One)
- High fidelity, yield, and sensitivity
- Broader linear range
- Complete cDNA synthesis guaranteed
- Robust and high throughput
- Works with difficult sequences

KIT CONTENTS

5x RT kit: 0.2 mL

The kit contains RT buffer, dNTPs, DTT, RNase inhibitor, Primer mixer, and Reverse Transcriptase. The reagent is enough for 50 RT reactions in 20 µL.

STORAGE CONDITIONS

The kit is shipped on ice and should be stored at -20°C for long-term storage. Shelf life of 12 months after receipt.

PROTOCOL

1. To prepare the reaction mixture in a PCR Tube on ice as below. The reaction volume is 20 µL/each:

5x RT Premix	4 µL
RNA	0.5-16 µL (2pg-2 ug)
RNase-Free water	to final volume of 20 µL.

2. Incubate the reaction tube at:

25 °C	5 min
50 °C	30 min
85 °C	5 min
4 °C	Hold

After reverse transcription, use 1-5 µL of cDNA for PCR amplification. The RT product can be stored at -20 °C

RELATED PRODUCTS:

2x SYBR Green qPCR Super Mix (TBS4001)
 2x Taqman Probe qPCR Super Mix (TBS4002)
 Mouse Genotyping PCR Mix (TBS4003)
 One-Step Sybr qRT-PCR (TBS4007)
 2x One-Step TaqProbe qRT-PCR (TBS4008)
 4x One-Step Probe qRT-PCR (TBS4009)
 Pfu PCR MasterMix (2x) (TBS4012)
 Kodaq 2X PCR MasterMix (TBS4057)
 Long Flash PCR Master Mix (TBS4044)
 Mouse Tail DNA Extraction kit (catalog# TBS6005)
 Blood DNA Extraction kit (catalog# TBS6004)
 Tail DNA Extraction kit (catalog# TBS6005)
 Fast DNA Extraction kit (catalog# TBS6008)
 Hybr-R RNA Purification Kit (305-101)