

## Tribo™ Reverse Transcription Reaction Kit (Catalog# TBS4006)

### All-in-One

#### DESCRIPTION

Tribo™ Reverse Transcription Kit is optimized to synthesize first strand cDNA for PCR or 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 pre-mixed 5X concentrated solution includes all necessary components for first-strand synthesis. With the mixture of 5X RT buffer, dNTPs, MgCl<sub>2</sub>, DTT, primers (optimized mixture oligo (dT) and random primers), RNase inhibitors, and Reverse Transcriptase, the first strand cDNA synthesis process is greatly simplified.

#### APPLICATIONS

This kit can be used for first-strand 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
- Work with difficult sequences

#### KIT CONTENTS

5x RT reagent: 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. All components should be stored at -20°C in a frost-free freezer. Shelf life is 12 months after receiving.

#### PROTOCOL

To prepare the reaction in 20 µL:

1. Add the following to a 0.2 mL PCR tube (or 96 well plate) on ice.
 

5x RT Reagent Mix	4 µL
RNA	0.5-16 µL
RNase-Free H <sub>2</sub> O	to 20 µL final volume for each reaction.
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 QPCR SYB Green master kit (catalog# TBS4001)
- 2x Taqman PCR Super Mix (catalog# TBS4002)
- Mouse Tail DNA Extraction kit (catalog# TBS6005)
- Blood DNA Extraction kit (catalog# TBS6004)