# Tribo™ 2x Taqman PCR Super Mix (Catalog# TBS4002)

## DESCRIPTION

Tribo™ 2x Taqman PCR Super Mix provides a PCR mix that can be used with any appropriately designed primer and probe to detect any DNA target (including cDNA, genomic, or plasmid DNA). The mix is optimized for TaqMan based PCR in ABI 7000, 7300, 7700 and 7900 machines

## APPLICATIONS

This kit can be used in Taqman based real-time PCR for detecting gene expression, gene knockdown verification, array validation, copy number determination, ChIPs-PCR, and genotyping analysis.

## KEY FEATURES

**High Specificity:** the specific components in this kit have potentials to increase the specific amplification of your target genes.

**High Efficiency:** the optimal buffer condition and specific engineered hot start Taq DNA polymerase have increased the efficiency of PCR amplifications.

**Simple:** the TriboTM 2x Taqman PCP Super Mix includes most of the components for the quantitative PCR. You only need to add your primers, probe and template for your quantitative PCR.

## KIT CONTENTS

2x 1.0 mL 2x qPCR Super Mix.

## 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.

## Primer and Probe Design

To achieve the best performance, appropriate software, such as ABI's Primer ExpressTM, should be used.

1. Tm: 60˚C for primers and 68~70˚C for probes
2. Amplicon size should be small, <150bp
3. To avoid secondary structures and avoid more than 3 consecutive Gs in primers and probes
4. Primers should be 17 ~ 30 nucleotides in length and should not have complementary 3' ends

## Suggested PCR Conditions

95˚C, 10 min => (95˚C, 5 sec. => 60 ˚C, 30 sec.) for 40cyecles.

## RELATED PRODUCTS:

2x QPCR SYB Green master kit (catalog# TBS4002)

Mouse Tail DNA Extraction kit (catalog# TBS6005)

Blood DNA Extraction kit (catalog# TBS6004)

## REFERENCES:

Higuchi R. et al, (1992): Simultaneous amplification and detection of specific DNA sequences. Bio Technology 10:413-417.

Higuchi R. et al, (1993): Kinetic PCR analysis: real-time monitoring of DNA amplification reactions. Bio Technology 11: 1026-1030.

Birch DE. (1996): Simplified hot start PCR. Nature, 381(6581): 445-446