Tribioscience

One-Step Taqman Probe qRT-PCR Kit (Catalog# TBS4008, Store at -20℃)

Catalog Number	Kit Size
TBS4008R	100 RXN
TBS4008NR	100 RXN

DESCRIPTION

Tribo™ One-Step Taqman Probe qRT-PCR Kit is a complete qRT-PCR system, containing all reagents necessary for both reverse transcription (RT) and Taqman probe-based PCR amplification to occur in a single qPCR reaction tube. The One-Step qRT-PCR kit is an amalgamation of two key formulations of a qRT-PCR Enzyme Mix and a Taqman Probe qPCR Master Mix. The kit contains stabilizers and enhancers to optimize the two reactions in a real-time "single step". This One-Step qRT-PCR kit offers the end-users an efficient, easy to use and reliable alternative to conventional "two-step" sequential qRT-PCR.

APPLICATIONS

This kit is used for real-time PCR amplification.

KEY FEATURES

- One-step complete qRT-PCR in a single tube.
- Reduce contamination in the operating process.
- Accurate detection and quantification of a target gene through real-time PCR.

KIT CONTENTS

Part Number	Kit Size
2x Taqman Probe qRT-PCR with ROX (TBS4008R) or without ROX (TBS4008NR)	1mL
Nuclease-free H2O	1mL

STORAGE CONDITIONS

Store all components at -20°C in a non-frost-free freezer.
Shelf life is 12 months after recipient.
The kit is shipped on blue ice.

PROTOCOL

RT-PCR should be assembled in a nuclease-free environment. The RAN preparation is recommended for 305-101 RNA purification kit.

1. Prepare the following reaction mixture in PCR tube on ice.

Components	Reaction Volume:20 µl	Concentration
Total RNA	Variable	5 pg - 1 µg/rxn
qRT-PCR Mix	10 µl	1X
Forward Primer (10 µM)	0.6 µl	300 nM
Reverse Primer (10 µM)	0.6 µl	300 nM
Taqman probe	Variable	Variable
Nuclease-free H O	Up to 20 µl	

Note:

A. Gene specific primers and probe must be used.
B. Amplicon should be <150 bp in size.
C. Please ensure no salt crystals are present in the qPCR Mix before use. If salt crystals are observed, mix until crystals are completely dissolved and absent.

2. Gently mix and ensure all the components are at the bottom of the amplification tube. Centrifuge briefly if needed.
3. Program the thermal cycler so that cDNA synthesis is followed immediately by qPCR amplification.

Step	Temperature	Duration	Cycle(s)
cDNA Synthesis	42°C	15 mins	1
Pre-Denaturation	95°C	10 mins	1
Denaturation	95°C	15 secs	40
Annealing	60°C	60 secs	

Recommendations for Optimal Results

- Aliquot reagents to avoid contamination and repeated freeze-thaw cycles.
- TaqProbe qPCR MasterMix components are light sensitive; avoid prolonged exposure to intense light.
- Start reaction as soon as the reaction mixture is prepared and always keep the reaction mixture chilled in an ice box prior to qRT-PCR reaction.

RELATED PRODUCTS

One-step Sybr qRT-PCR (TBS4007)
2xSybr Green qPCR Mix (TBS4001)
2xTaqman Probe qPCR Mix (TBS4002)
RNA isolation Kit (TBS6001)
Ribospine vRD II Kit (Viral RNA isolation from cell-free fluid, plasma, Serum,Urine) (322-150)
Exgene Viral DNA/RNA Isolation Kit (128-150)

For Research Use Only

365 San Aleso Ave, Sunnyvale, CA 94085, USA Website: www.tribioscience.com
Tel: 408-498-0197, Fax: 650-618-5498 Email: order@tribioscience.com