FOREGENE

RT Easy™ II

Master Premix for first-strand cDNA synthesis for Real Time PCR

Cat.No.RT-01021/01022/01023

Fast and highly sensitive reverse transcription system for generating first-strand cDNA for use in Real Time PCR

Product Description

The company's 2× RT OR-Easy™ Mix can synthesize the first-strand cDNA at a temperature as high as 50°C, which is conducive to the reverse transcription reaction of complex secondary structure RNA templates.

The RNA purified in the laboratory often contains alcohol and guanidine salt residues, which have strong inhibitory properties on most reverse transcriptases, resulting in unsatisfactory reverse transcription effects or low reverse transcription efficiency. Foregene 2× RT Mix shows extremely high tolerance to alcohol and guanidine salt. The highest tolerance to alcohol in RNA samples is 60%, and the highest tolerance to guanidine salt is 750mM. Even impure RNA can be used for reverse transcription reaction with Foregene 2× RT OR-Easy™ Mix.

2× RT OR-Easy™ Mix is a rapid reverse transcription reagent specially developed for Real Time PCR. This system has high reverse transcription efficiency and does not need to add any primers, and can perform good reverse transcription reactions on a small amount of RNA templates. The unique reaction system makes the RT reaction easier, faster and more efficient. The first strand cDNA synthesis can be completed in 20 minutes. This product can be used in conjunction with Foregene's fluorescent quantitative product Real Time PCR Easy™ to obtain high-quality experimental results.

Features

- Efficient reverse transcription system, it only takes 20 minutes to complete the synthesis of the first strand cDNA.
- High-sensitivity reverse transcription system, pg-level templates can also get high-quality cDNA.
- The reverse transcription system has high thermal stability, the reaction temperature of the system can be as high as 50 ℃, and it has good reverse transcription performance.
- Even impure RNA samples (alcohol up to 60%, guanidine salt up to 750mM) can be subjected to reverse transcription reaction.
- 2× RT OR-Easy™ Mix has added optimized reverse transcription primers (Random Primer, Oligo(dT)$_{18}$ Primer).

Kit application

- Used directly in Real Time PCR to quantitatively analyze gene expression
- It can quickly and accurately analyze small amounts of RNA such as RNA viruses
- Reverse transcription of RNA templates with high GC content or complex secondary structure

Product quality control

In accordance with FOREGENE's Total Quality Management System (FOREGENE's Total Quality Management System), each batch of RT Easy™ II kits is strictly tested multiple times to ensure the reliability and stability of the quality of each batch of kits.

Kit Contents

RT Easy™ II Master Premix for first-strand cDNA synthesis for Real Time PCR			
Kit components	RT-01021	RT-01022	RT-01023
	50 T (10μl system)	200 T(10μl system)	800 T (10μl system)
2× RT OR-Easy™ Mix	0.25ml	1ml	1ml × 4
RNase-Free ddH_2O	1.7ml	1.7ml	1.7ml × 3
Instruction Manual	1 piece	1 piece	1 piece

Transport and storage conditions

1. Transportation conditions

The whole process of low-temperature ice box transportation, to ensure that the kit is in a state of <4°C.

2. Storage conditions

RT Easy™ II is stored at -20°C. Store the product in a constant temperature refrigerator at -20°C immediately after receipt. If the storage conditions are appropriate, the product will not degrade any performance during the 1-year validity period.

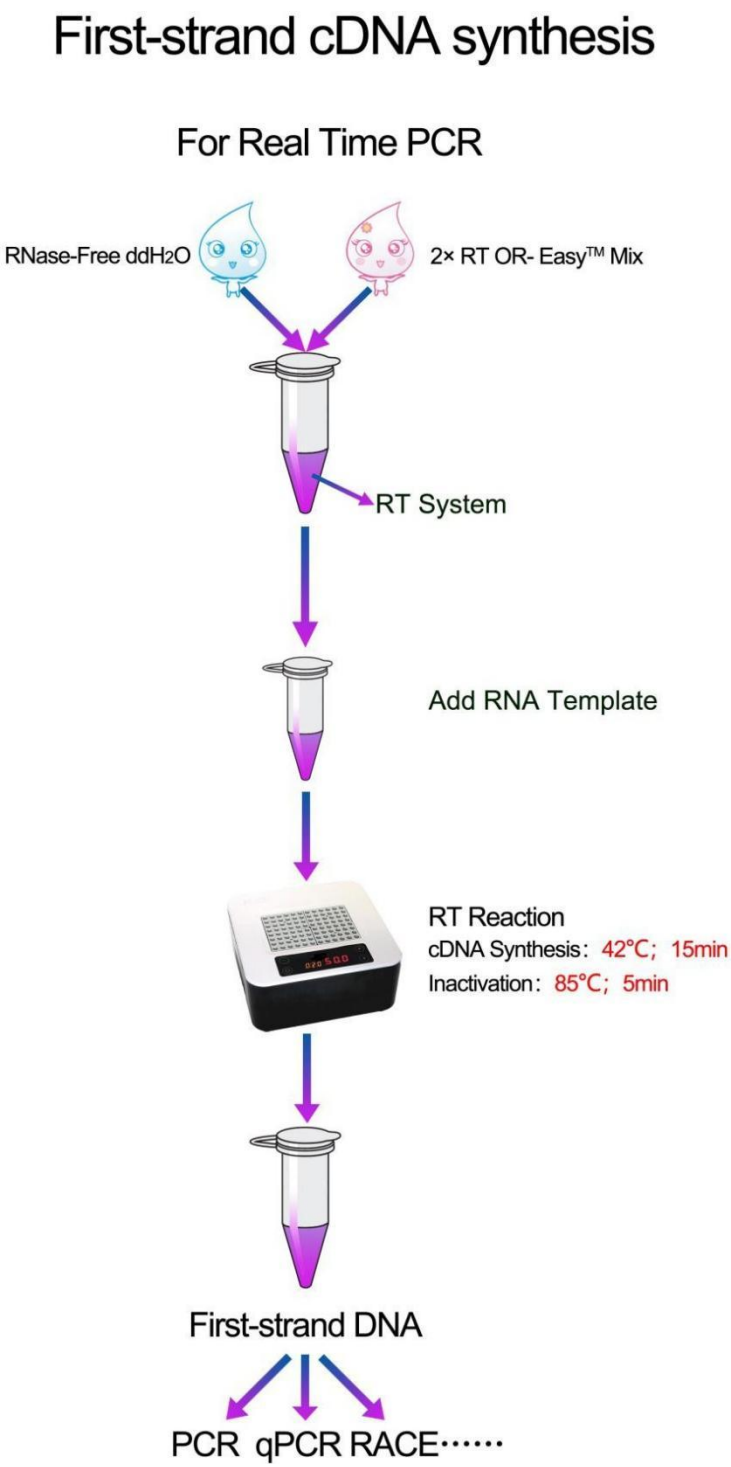
Kit component information

2× RT OR-Easy™ Mix: Foregene Reverse Transcriptase, RNase Inhibitor, dNTPs, stabilizers, enhancers, optimizers, and optimized reverse transcription primers (Random Primer, Oligo(dT)$_{18}$ Primer).

Precautions: (Please read the precautions carefully before using the kit)

- For templates, it is recommended to use RNA extracted from fresh samples or stored at -80℃ (RNA should avoid repeated freezing and thawing).
- In order to avoid RNase contamination, the experiment operation should be carried out in the RNase-Free space; the pipette tips and PCR centrifuge tubes used must be RNase-Free; and disposable gloves and masks should be worn.
- Before use, put 2× RT OR-Easy™ Mix on ice to completely melt, flick and mix well before use; the preparation of the system should be operated on an ice bath to improve the performance of the kit and the specificity of PCR amplification performance.
- RT Easy™ II has already added reverse transcription primers with optimized ratios, so there is no need to add any additional primers.

Quick operation diagram



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