

Hifair™ AdvanceFast One-step RT-gDNA Digestion SuperMix for qPCR

Product description

The Hifair™ AdvanceFast One-step RT-gDNA Digestion SuperMix for qPCR is an upgraded version of the Hifair™ V one-step RT-gDNA digestion SuperMix for qPCR, which meets the requirements of both reverse transcription and genomic DNA removal reactions in the same tube. The Hifair™ V one-step RT-gDNA digestion SuperMix for qPCR is an upgraded version of the Hifair™ V one-step RT-gDNA digestion SuperMix for qPCR, which allows for both reverse transcription and genomic DNA removal in the same tube, while simplifying the reaction process, dramatically shortening the reaction time, and increasing the yield of reverse transcription products. The 4×Hifair™ AdvanceFast One-Step RT SuperMix contains all the reagents required for the reverse transcription reaction, and only requires the addition of gDNA Remover Mix, template RNA, and water to efficiently synthesize the first-strand cDNA while removing the contamination of genomic DNA. It is suitable for reverse transcription of complex RNA templates as well as small amounts of template and low-copy genes.

This product is compatible with probe and dye-based qPCR. Hieff Unicon™ Universal TaqMan multiplex qPCR master mix (Cat#11211) and Hieff UNICON™ Universal Blue qPCR SYBR Green Master Mix (Cat#11184) are recommended for high-performance gene expression analysis. Hieff Unicon™ Universal TaqMan multiplex qPCR master mix (Cat#11211) and Hieff UNICON™ Universal Blue SYBR Green Master Mix (Cat#11184) for high performance gene expression analysis. The reverse transcription product is not suitable for subsequent gene cloning and other long fragment amplification, if needed, we recommend Hifair™ AdvanceFast 1st Strand cDNA Synthesis Kit (Cat#11149, Cat#11150) for high efficiency reverse transcription.

Specifications

Cat.No.	11151ES10 / 11151ES60
Size	10 T/100 T

Components

Components No.	Name	11151ES10	11151ES60
11151-A	4×Hifair™ AdvanceFast One-Step RT SuperMix	50 µL	500 µL
11151-B	gDNA Remover Mix	10 µL	100 µL
11151-C	RNase-free Water	1 mL	2×1 mL

Storage

This product should be stored at -25~-15°C for 1 year.

Instructions

1. Reaction system configuration

Components	Volume (µL)
------------	-------------

RNase-free Water	To 20 μ L
4 \times Hifair™ AdvanceFast One-Step RT SuperMix	5 μ L
gDNA Remover Mix	1 μ L
Total RNA*	10 pg-5 μ g
or mRNA*	10 pg-500 ng

* It is recommended that the input amount of Total RNA does not exceed 2 μ g. If the expression abundance of the target gene is low, the input amount can be increased to a maximum of 5 μ g Total RNA.

2) Reaction program

Temp.	Time
37°C	5 min*
85°C	30 sec

* The process involves reverse transcription and gDNA digestion.

3) The reverse transcription product can be used immediately for qPCR reaction or stored at -20°C for short-term storage, long-term storage is recommended to be stored at -80°C after dispensing to avoid repeated freezing and thawing.

Notes

1. All operations should be performed on ice and should be performed in a manner that avoids RNase contamination.
2. This product is for research use only.
3. Please operate with lab coats and disposable gloves, for your safety.