

## 2 Hieff Canace AdvanceFast PCR Master Mix2

### high-fidelity enzyme premix solution

#### Product profile

2 Hieff Canace AdvanceFast PCR Master Mix is a ready-to-use type 2 premixed solution containing the Hieff Canace AdvanceFastHigh-

Fidelity DNAPolymerase, dNTPs as well as the optimized buffer system, and the amplified products were flat ends. 2× Hieff Canace AdvanceFast PCR Master

Mix has the advantages of fast and simple, high sensitivity, strong specificity and good stability, and the reaction system only needs adding primers and templates. In addition, the product also contains specific protective agent, which makes that the premixed liquid can maintain stable activity after repeated freezing and thawing.

#### on-product information

Art.No	10163ES01/10163ES03/10163ES08
specifications	250 μ L/1 mL/5×1mL

#### condition of storage

-25~ -15°C preservation, valid for 1 year.

#### direction for use

##### 1. Recommend the PCR reaction system

component	volume (μ L)	final concentration
2×Hieff Canace AdvanceFast PCR Master Mix*	25	1×
templet **	X	
Forward primer F (10 μ M)***	2	0.4 μ M
Reverse primer R (10 μ M)	2	0.4 μ M
ddH <sub>2</sub> O	Up to50	

Table 1: The PCR reaction system

\* In 1 premix containing 2mM Mg<sup>2+</sup> and 200 μ M dNTPs.

\*\* Recommended range 10–200 ng; the loading range of cDNA sample does not exceed 1 / 10 of the reaction system, recommended 1–2.5 μ L. The range of the primer final concentrations in the \*\*\* PCR reaction system is 0.2 - 1 μ M, as recommended as 0.4 μ M.

##### 2. Reaction program

Cycle steps	temperature	time	recurring number
Pre denaturation	98°C	30 sec	1
denaturation	98°C	10 sec	30–35
anneal *	60°C	5 sec	
extend **	72°C	5–10sec/kb	
End extension	72°C	2 min	1

Table 2. The PCR reaction procedures

\* Recommended temperature: 60°C, or a temperature gradient can be set up to explore the optimal temperature for primer annealing as required. The recommended annealing time is set to 5 sec, which can be adjusted within 5-30 sec. Too long an annealing time may cause the dispersion of the amplification product on the glue.

\* \* Extension time: 5 sec / kb is recommended, or appropriately extended to 10 sec / kb as needed.

**matters need attention**

1. For your safety and health, please wear laboratory clothes and disposable gloves. 2. This product is only used for scientific research purposes!