

2×AMPQX® AdvanceFast PCR Master Mix-With Dye

Cat. no. LM201001-2

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Product Information

Product	2× AMPQX® AdvanceFast PCR Master Mix (With Dye)
Catalog No.	LM201001-2
Storage conditions	This product should be stored at -25~-15°C for 1 years.

2. Product description

2× AMPQX® AdvanceFast PCR Master Mix (With Dye) is a ready-to-use 2× pre-mixed solution containing AMPQX® AdvanceFast High-Fidelity DNA Polymerase, dNTPs, and an optimized buffer system, which contains preadded electrophoresis indicators. The pre-mix contains pre-added electrophoresis indicator, PCR products can be directly electrophoresed, the amplification products are flat ends. 2× AMPQX® AdvanceFast PCR Master Mix (With Dye) has the advantages of quick and easy, high sensitivity, high specificity, good stability, etc., the reaction system can be added with only the primers and templates. In addition, the product also contains a specific protective agent, so that the premix can still maintain stable activity after repeated freezing and thawing.

3. Components

Cat.No.	LM201001-2ES01/ LM201001-2ES03/ LM201001-2ES08
Size	250 µL/1 mL/5×1 mL

4. Instructions

4.1. Recommended PCR reaction systems.

Components	Volume (µL)	Final concentration
2× AMPQX® AdvanceFast PCR Master Mix (With Dye)	25	1×

Template	x	-
Forward Primer 10 µmol/L	2	0.4 µmol/L
Reverse Primer 10 µmol/L	2	0.4 µmol/L
ddH ₂ O	Up to 50	-

[Note]:

- In 1× premixes containing 2 mM Mg²⁺ and 200 µM dNTPs.
- Recommended range 10-200 ng, cDNA sample upload volume range not more than 1/10 of the reaction system, recommended 1-2.5 µL.
- The final primer concentration in the PCR reaction system ranges from 0.2-1 µM, and 0.4 µM is recommended.

4.2. Reaction program

Cycle step	Temp.	Time	Cycles
Initial denaturation	98°C	30 sec	1
Denaturation	98°C	10 sec	30-35
Annealing	60°C	5 sec	
Extension	72°C	5-10 sec/kb	
Final extension	72°C	2 min	1

[Note]:

- Recommended temperature: 60°C, a temperature gradient can be set up to find the optimal temperature for primer annealing. The recommended annealing time is set to 5 sec and can be adjusted from 5-30 sec. Too long annealing time may result in diffuse amplification products on the gel.
- Extension time: Recommended 5 sec/kb, can also be extended to 10 sec/kb as needed.

5. Notes

- For your safety and health, please wear a lab coat and disposable gloves during operation.
- This product is for research use only!