

2×AMPQX® PCR Master Mix (With Dye)

Cat. no. LM201003-2

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Product Information

Product	2 × AMPQX® PCR Master Mix (With Dye)
Catalog No.	LM201003-2
Size	1 mL/5 × 1 mL/50 × 1 mL/100 × 1 mL
Storage conditions	This product should be stored at -25 ~ -15 °C for 2 years.

2.Product description

2 × AMPQX® PCR Master Mix is a ready-to-use conventional PCR pre-mixed solution containing AMPQX® Taq DNA Polymerase and dNTP mix Compound, MgCl₂, and the optimized buffer system. In the reaction, only primers and templates can be added, greatly simplifying the operation steps of the experiment. The product contains the bromophenol blue dye, and the PCR products can be directly subjected to electrophoresis. This product contains excellent stabilizer and can be placed for 3 months at 4°C. PCR The product has a 3'-dA protruding end and can be easily cloned into the T vector.

3.Instructions

3.1. Recommended PCR reaction systems.

Components	Volume (μL)	Final concentration
2 × AMPQX® PCR Master Mix(With Dye)	25	-
Template	x	-
Forward Primer 10 μmol/L	2	-
Reverse Primer 10 μmol/L	2	-
ddH ₂ O	Up to 50	-

[Note]:

- a) Template usage: genomic DNA: 50 - 200 ng; plasmid DNA: 0.1 - 10 ng.
- b) Mg²⁺ concentration: This product contains 3 mM of MgCl₂, which is suitable for most PCR reactions.

3.2. Reaction program

Cycle step	Temp.	Time	Cycles
Initial denaturation	94°C	5min	1
Denaturation	94°C	30 sec	35
Annealing	50 - 60°C	30sec	
Extension	72°C	30 - 60 sec/kb	
Final extension	72°C	10 min	1

[Note]:

- Annealing temperature: please refer to the theoretical T_m value of primer, the annealing temperature can be set 2 - 5°C lower than the theoretical value of primer.
- Extension time: Recommended 30 sec/kb for molecular identification. Gene cloning suggested 60 sec/kb to ensure the highest amount of product.

4. Notes

- For your safety and health, please wear a lab coat and disposable gloves during operation.
- This product is for research use only!
- The PCR product of this product is not suitable for polyacrylamide gel electrophoresis.