

AMPQX® Taq DNA Polymerase (100 U/μL)

Cat. no. LM203025

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Product Information

Product name	AMPQX® Taq DNA Polymerase (100 U/μL)
Cat.No.	LM203025
Size	100 kU/1,000 kU/10,000 kU
Storage and shipping	The product is shipped with ice pack and can be stored at -25 °C ~ -15 °C for 2 year.

2.Product description

AMPQX® Taq DNA Polymerase is a thermostable recombinant DNA polymerase expressed from the thermophilic bacterium *Thermus aquaticus*, with a molecular weight of 94 kDa. It possesses 5' → 3' polymerase activity and 5' → 3' exonuclease activity but lacks 3' → 5' exonuclease activity. The amplification products have a 3'-dA overhang, making them suitable for direct use in TA cloning.

3.Product Components

Components No.	Components
LM203025-A	AMPQX® Taq DNA Polymerase (5 U/μL)

4.Instructions

4.1.Recommended PCR Reaction System (Preparation on ice)

Components	Volume μL	Final concentration
10 × AMPQX® PCR Buffer (Mg2+ Free)	5	1×
25 mM MgCl ₂	3	1.5 mM
dNTP Mix (10 mM each)	1	0.2 mM
Primer 1 (10 μM)	2	0.4 μM
Primer 2 (10 μM)	2	0.4 μM
AMPQX® Taq DNA Polymerase (100 U/μL)	0.02	0.04 U/μL
DNA Template	100 pg-100 ng	-
ddH ₂ O	To 50	-

[Note]:

The amounts of DNA, primers, and probe concentrations provided are recommended starting points. These can be adjusted according to the specific requirements of your experiment to achieve optimal results.

4.2.Reaction program

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

[Note]:

The annealing and extension conditions can be adjusted based on the specific requirements of your experiment to achieve optimal results.

5. Notes

1. This product is for research use only.
2. Please operate with lab coats and disposable gloves for your safety.