QKGEN® 2× PCR Master Mix(No Dye)

Product description

QKGEN® 2× PCR Master Mix(No Dye) is a kind of conventional PCR premixed solution which is ready to use,including Taq DNA Polymerase, dNTP mix, MgCl and optimized buffer. During the reaction,only the primer and template can be added for amplification, which greatly simplifies the operation steps of experiment. This product contains excellent stabilizers and can be stored for 3 months at 4℃. The PCR product have 3'-dA protrusion and can be easily cloned into T vector.

Components

Components No.	Name	Q10103-1	Q10103-2	Q10103-3	Q10103-4
Q10103	QKGEN® 2× PCR Master Mix (No Dye)	1mL	5×1mL	50×1mL	100×1mL

Specifications

Fidelity (vs. Taq)	1×
Hot Start	No
Overhang	3'-A
Polymerase	Taq DNA polymerase
Reaction Format	SuperMix or Master Mix
Reaction Speed	Standard
Product type	PCR Master Mix(2×)

Storage

The product should be stored at -25℃ ~ -15℃ for 2 years.

Instructions

1.Reaction System

Components	Volume(μL)	Final concentration
QKGEN® 2× PCR Master Mix	25	1×
Forward Primer(10 μmol/L)	1	0.2 μmol/L
Reverse Primer(10 μmol/L)	1	0.2 μmol/L
DNA	X	
ddH_2O	up to 50	

2.Amplification Protocol

Cycle step	Temp.	Time	Cycles
Predenaturation	94℃	5 min	1
Denaturation	94℃	30 sec	35
Annealing	50℃ - 60℃★	30 sec	
Extension	72℃	30-60 sec/kb	
Final extension	72℃	10 min	1

[Note]:

a)Template usage:50-200 ng genomic DNA; 0.1-10 ng plasmid DNA.

b)Annealing temperature(★):Please refer to the theoretical Tm value of primers.The annealing temperature can be set to 2-5℃ lower than the theoretical value of the primer.

c)Extention time:For molecular identification, 30 sec/kb is recommended. For gene cloning, 60 sec/kb is recommended.

Notes

1. PCR products with 2× PCR Master Mix are not suitable for polyacrylamide gel electrophoresis.
2. For your safety and health,please wear lab coats and disposable gloves for operation!
3. This product is for research use ONLY!