

Ver.25011

2X Real-Time PCR Master Mix

(Including SYBR Green in the mix)

Cat.No. ODQ383

Description:

2X Real-Time PCR Master mix provides optimized system for accurate and easy real-time PCR using an intercalating reagent. Mixed *h-Taq* DNA polymerase enables high specific DNA amplification due to its capability of Hot Start and multiplex PCR amplification.

Storage

- Store at -20°C in dark
- Stable for 1 year

Recommendation: To maintain better stability, aliquot the thawed 2X Real-Time PCR Master Mix and store it at -20°C .

Features

Features	Real Time PCR Master Mix (2X)
Application	<ul style="list-style-type: none"> • Quantification of target DNA using Real-Time PCR • Quantification of target RNA using RT-PCR

Recommended PCR mixture and cycling condition

PCR mixture	20 μL
2X Real-Time PCR Master Mix	10 μL
Forward primer (10pmol/ μL)	1 μL
Reverse primer (10pmol/ μL)	1 μL
Template DNA (<300ng)	- μL
Add D.W to	20 μL

2-Step Cycling		
Pre-denaturation	Denaturation	Annealing/Extension
1 Cycle	35 – 45 Cycles	
95 $^{\circ}\text{C}$	95 $^{\circ}\text{C}$	60 $^{\circ}\text{C}$
10 min	10 – 20 seconds	20 – 60 seconds

3-Step Cycling			
Pre-denaturation	Denaturation	Annealing	Extension
1 Cycle	35 – 45 Cycles		
95 $^{\circ}\text{C}$	95 $^{\circ}\text{C}$	56 – 64 $^{\circ}\text{C}$	72 $^{\circ}\text{C}$
10 min	10 – 20 seconds	10 – 30 seconds	10 – 60 seconds

Note

- If the amplicon size is $\geq 200\text{bp}$, or the annealing temperature is lower, follow the 3-step cycling.
- The amount of template, extension time, annealing temperature, and the number of PCR cycles may be modified according to the target size, primer's T_m , and the type of templates for amplification.