

Ver.25011

Real-Time PCR Kit

(with SYBR Green)

Cat.No. ODQ193

Description: Real-Time PCR kit provides separate components required to run a real-time PCR reaction. h-*Taq* DNA polymerase enables high specific DNA amplification due to its capability of HotStart.

Product contents

Components	Volume
h- <i>Taq</i> DNA Polymerase (5U/ μ L)	250U
10X h- <i>Taq</i> Reaction Buffer (with 25mM MgCl ₂)	1mL
10mM dNTP	200 μ L
50X SYBR Green	50 μ L

Storage

- Store at -20°C
- Stable for 1 year

Features

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Application	<ul style="list-style-type: none"> • Quantification of target DNA using Real-Time PCR. • Quantification of target RNA using RT-PCR. • High Resolution Melting (HRM) analysis. • Amplification size is < 1 kb PCR. • HotStart activity (Chemically-modified HotStart)

Recommended PCR mixture and cycling condition

PCR mixture (Reaction vol. 20 μ L)		Cycle		
10X h- <i>Taq</i> Reaction Buffer (with 25mM MgCl ₂)	2 μ L	95 $^{\circ}\text{C}$	15min	$\times 1$
10mM dNTP	0.5 μ L	95 $^{\circ}\text{C}$	20sec	} $\times 40-50$
h- <i>Taq</i> DNA Polymerase (5U/ μ L)	0.2 μ L	AT	1min	
Forward primer (10pmol/ μ L)	1 μ L	72 $^{\circ}\text{C}$	1min/kb	
Reverse primer (10pmol/ μ L)	1 μ L	72 $^{\circ}\text{C}$	5 min	$\times 1$
50X SYBR Green	0.2 μ L			
Template DNA (< 300ng)	- μ L			
Add D.W to	20 μ L			

- Amount of template, extension time, annealing temperature, and the number of PCR cycles according to the target size, primer's T_m, and the type of templates for amplification may be modified as per requirement.