

OneStep RT-PCR Smart Mix (2X)

Cat.No. ODR31-M01

Description: OneStep RT-PCR Smart Mix is a product for easy reverse transcription and PCR at “One Step” with optimal recombinant of Reverse Transcriptase and HotStart h-*Taq* DNA polymerase mixture. This mix has dual advantages of high efficiency for cDNA synthesis and high specificity of HotStart polymerase to set up of optimal PCR condition easily and conveniently.

Storage

- Store at -20°C for 12 months
- Prepare aliquots to avoid multiple freeze-thaw cycles.

Features

RTase	M-MLV RTase (RNase H)
Temperature of cDNA synthesis	42-55 $^{\circ}\text{C}$
Synthesis length	< 1kb
Synthesis primer	Gene specific primer

Recommended PCR mixture and cycling

PCR mixture (Reaction vol. 30 μL)		Cycle		
OneStep RT-PCR Smart Mix (2X)	15 μL	50 $^{\circ}\text{C}$	30 min	$\times 1$
Forward primer (10 $\mu\text{mol}/\mu\text{L}$)	1 μL	95 $^{\circ}\text{C}$	15 min	$\times 1$
Reverse primer (10 $\mu\text{mol}/\mu\text{L}$)	1 μL	95 $^{\circ}\text{C}$	20 sec	} $\times 35-40$
Template RNA (20ng - 1 μg)	- μL	AT	40 sec	
Add D.W to	30 μL	72 $^{\circ}\text{C}$	1 min/kb	
		72 $^{\circ}\text{C}$	5 min	$\times 1$

You may modify the amount of template, extension time, annealing temperature, and the number of PCR cycle according to the target size, primers T_m and the type of templates for amplification.