

2X OneStep RT-PCR Smart Mix (with dye)

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. The inert tracer dye enables the PCR product to be loaded directly on to an agarose gel. The inert tracer dye migrates approximately at 125 base pairs in a 1% agarose gel run in 1X TBE buffer.

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°C
Synthesis length	< 1kb
Synthesis primer	Gene specific primer

Recommended PCR mixture and cycling

PCR mixture (Reaction vol. 30μL)		Cycle		
2X OneStep RT-PCR Smart Mix	15μL	50°C	30 min	×1
Forward primer (10pmol/μL)	1μL	95°C	15 min	×1
Reverse primer (10pmol/μL)	1μL	95°C	20 sec	} ×35-40
Template RNA (20ng - 1μg)	-μL	AT	40 sec	
Add D.W to	30μL	72°C	1 min/kb	
		72°C	5 min	×1

Note: 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.