

# Kia RT-PCR SuperMix (100 Reactions)

## One Step, Ready to use

**Cat. No** RT7-100

**Storage:** at -20°C for one year

### Description

One-Step RT-PCR combines the first-strand cDNA synthesis with PCR in the same tube to simplify reaction set up and reduce the possibility of contamination. Only gene-specific primers can be used for One-Step RT-PCR. Reverse Transcriptase and *Taq* DNA polymerase are used in the kit.

### Advantages

- High efficiency cDNA synthesis with One-Step Enzyme Mix and 2X One-Step Reaction Mix, followed by PCR amplification with resulting cDNA. Simple procedure helps to minimize contamination.
- Amplification product contains base "A" at 3' end. Purified product is well suitable for cloning into T vectors.
- Amplified fragment up to 4 kb.

### Applications

Multiple copy gene detection

### Kit Contents

Component	
One-Step Enzyme Mix	40 µl
2X One-Step Reaction Mix	1 ml
RNase-free Water	1 ml

### Reaction Components

Component	Volume	Final Concentration
RNA Template	1 pg - 1 µg	as required
Forward GSP (10 µM)	0.4 µl	0.2 µM
Reverse GSP (10 µM)	0.4 µl	0.2 µM
2X One-Step Reaction Mix	10 µl	1X
One Step Enzyme mix	0.4 µl	-
RNase-free Water	to 20 µl	-

### Thermal cycling conditions

Temperature (°C)	Time	Repeats
45°C	15-30 min	1 cycle
94°C	2-5 min	1 cycle
94°C	30 sec	35-45 cycles
50-60°C	30-60 sec	
72°C	30-60 sec	
72°C	5-10 min	

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