

# Super 1 RT-PCR Mix

Cat # : PT-RP100      Size : 48 Reactions

SA-RP100      Size : 5 Reactions

## Product Description:

The Super 1 RT-PCR Mix is a ready to use RT-PCR mixture of specific target gene from either total RNA or mRNA. The mix simplifies the procedure and reduces the potential for sample contamination. Therefore, this mix offers a convenient and reproducible analysis of RNAs in one tube. It is supplied as single PCR tube -20°C stored package containing lyophilized mixture of MMLV reverse transcriptase and HotStart *Taq* DNA polymerase, tracking dyes and all the other components needed for RT-PCR reaction. MMLV reverse transcriptase has weak RNase H activity compared to AMV reverse transcriptase and made it a better RT enzyme for full-length cDNA synthesis. Users only have to add primers, template, and water to a final volume of 20 µL to have a complete RT-PCR reaction mix. The amplified DNA fragments will generate a 3' A-overhang that can be cloned by TA or GC cloning. After RT-PCR program finished, the presence of premixed dyes, red (~600 bp on 2% agarose gel) and yellow (~50 bp on 2% agarose gel), allows users to directly load the reaction mix onto the agarose gel for DNA electrophoresis.

## Components: Store at -20 °C

PT-RP100: 48 PCR tubes (contains lyophilized Super 1 RT-PCR Mix)

SA-RP100: 5 tubes (contains lyophilized Super 1 RT-PCR Mix)

## General Protocol:

Set up as follows:

Reaction Mix Preparation Table

Component	Volume
RNA template (100pg-1ug)	x µL
Upstream primer (10 µM)	0.5 µL
Downstream primer (10 µM)	0.5 µL
Lyophilized RT-PCR mix	-
Sterile H <sub>2</sub> O	Up to 20 µL

\* X is variable depend on user's condition.

Suggested RT-PCR Program

Stage	Temperature	Time	
Reverse transcription	45°C	30 min	
MMLV inactivation and RNA/ cDNA/primer denaturation	95°C	5 min	
Denature	35 cycles	95°C	30-60 sec
Annealing		55-65°C	30-60 sec
Extension		72°C	1 min/kb
Final extension	72 °C	5 min	
Preservation	4-10 °C		

- For experimental sample, please test for your own cycle conditions.
- The RT-PCR mix is stored at -20°C for at least 1 year.

\*\*\*Research Use Only\*\*\*

Please do not hesitate to contact us while you have any questions.

Manufactured for and distributed by Protech Technology Enterprise Co., Ltd.

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