

Super 2 RT-PCR Mix

Cat # : PT-RP200 Size : 50 Reactions

SA-RP200 Size : 10 Reactions

Product Description:

The Super 2 RT-PCR Mix is designed for reverse transcription and PCR amplification of specific target gene from either total RNA or mRNA. Two-enzyme system provides sensitive, fast, reproducible and convenient analysis of RNAs in one tube. This simplifies the procedure and reduces the potential for contaminating the samples. The system uses MMLV reverse transcriptase and HotStart Taq for first strand cDNA synthesis and PCR amplifications. MMLV reverse transcriptase has weak RNase H activity compared to AMV reverse transcriptase. It is useful for full-length cDNA synthesis. The amplified DNA fragments will generate a 3' A-overhang that can be cloned into T-Vectors.

Components: Store at -20 °C

Component Name		Volumn		Cap Color
		PT-RP200	SA-RP200	
1	RT-PCR Enzyme Mix	50 µL	10 µL	Orange Cap
2	RT-PCR 2X Reaction Mix (contains dNTP, MgCl ₂ , Buffer Mix)	500 µL	100 µL	Yellow Cap
3	Nuclease free H ₂ O	1 ML	200 µL	Clear Cap

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
2x reaction mix	10 µL
RT-PCR enzyme mix	1 µL
Sterile H ₂ 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 per 1.5 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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