

Super 3 AMV RT-PCR Kit

Cat # : PT-RP300 Size : 50 Reactions

Date: 2022.06

SA-RP300 Size : 6 Reactions

Version: 22-01

Product Description:

The Super 3 AMV 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 AMV reverse transcriptase and HotStart Taq for first strand cDNA synthesis and PCR amplifications. Protech AMV can be activated in board range of temperature from 37 to 65°C, which is recommended for synthesis of first strand cDNA from GC-rich RNA templates with high secondary structure. The amplified DNA fragments will generate a 3' A-overhang that can be cloned into T-Vectors.

Components: Store at -20 °C

Component Name		Volume		Cap Color
		PT-RP300	SA-RP300	
1	Enzyme Mix	50 µL	6 µL	violet Cap
2	2X Reaction Mix (contains dNTP, MgCl ₂ , Buffer Mix)	500 µL	60 µL	white 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	50°C	30 min	
AMV 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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