

## **Product Information:**

One step RT-PCR Master Mix (2x) (Cat.: R2120)

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Storage: -20°C

Size: 1.25 mL (100 Reactions)

**Description:** 

The ready-to-use one step RT-PCR Master Mix contains 2x M-MLV Reverse Transcriptase, Taq DNA Polymerase, recombinant RNase Inhibitor, Ultrapure nucleotides, magnesium and PCR reaction buffers, designed for the reverse transcription (RT) and polymerase chain reaction (PCR) amplification of a specific target RNA from either total RNA or mRNA. Simply mix the RNA template, primers, and RNase-free water with the RT-PCR master mix and the reactions are ready to cycles.

## **Procedure:**

Prepare a single reaction (total volume: 25uL) in a 0.2 or 0.5 mL microtube.

Component	Volume (µL)	Final Concentration
One step RT-PCR Master Mix (2x)	12.5	1x
RNA Template	0.1-1	determined by user
Forward primer (5µM)	1	200nM
Reverse primer (5µM)	1	200nM
PCR grade/RNaes-free water	up to 25 μL	

## Setup typical thermal cycling parameters

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1. Reverse Transcription (RT) step:	45°C	15 minutes	
2. Enzyme activation step:	95°C	2 minutes	
3. 25-40 cycles:			
Denature	95°C	30 seconds	
Annealing	X°C	30 seconds dependent on Tm of primers	
Extension	68°C	1 minute (1min per kb amplicon)	
4. Final extension	68°C	1 minute (1min per kb amplicon)	
5. Hold 4°C			

## **Precautions and Disclaimer:**

This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.

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