

Gently mix all solutions after thawing. Spin down briefly and keep on ice. Add the following components in a 0.2ml thin walled PCR tube on ice.

# For 20ul reaction volume:

			-
Reagent:	Volume	Final Concentration	
Primers (Fwd / Rev)	Variable	0.1 - 1µM each	
RNA template	Variable	0.02 - 50.0	$\gamma$
Water, nuclease free	Adjust fir	al volume to 10μl	
2X ViRed OneStep Taq ReverseTrans PCR Master Mix	10µI	XL*	,

011 M.M.H.V. Dawara Transprintees DNass Indiktions 1 511 Tas DNA Dolumenes 14 DCD Buffer 0.3mM dNTDs Mix inset and due and enhances

\*Higher reaction volume may be achieved provided that the 40U M-MuLV Reverse Transcriptase, RNase Inhibitors, 1.5U Taq I DNA Polymerase, final concentratio concentration 1X PCR Buffer, 0.2mM dNTPs of each reaction component 's Mix, inert red nt is maintained. . The dye and enhancers. number of tests thar 20µ

	Annealing 5	Denaturation 9	Initial Denaturation 9	cDNA Synthesis 4	Cycling Conditions (100b		
000 for 5 minutos	0 -68°C for 1 minute	4°C for 15 seconds	4°C for 2 minutes	2°C for 10 - 30 minutes	p - 500bp)		
		γ	)				
25 -40 cycle:							

Final Extension 72°C for 5 minutes	Extension 72°C for 30 seconds to 2 minutes	Annealing 50 -68°C for 30 seconds to 1 minute 25	Denaturation 94°C for 30 seconds	Initial Denaturation 94°C for 2 - 5 minutes	cDNA Synthesis 42°C for 10 - 30 minutes	Cycling Conditions (300bp - 5kb)	
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\*This protocol may change depending on the template RNA and primers used

**Product Datasheet** 

Product No: RTMM02

**ReverseTrans PCR Master Mix \*** 2ml of Nuclease-free Water

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Supplied with : 1ml 2X ViRed OneStep Taq

Quantity : 100 reactions

## Description :

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DNA AMPLIFICATION PRODUCT

ViRed OneStep Taq

ReverseTrans PCR Master Mix

> Lot Expiry Date

Store at -20°C

2X ViRed OneStep Tag ReverseTrans PCR Master Mix offers rapid and sensitive end-point detection of RNA templates in a single step. 2X ViRed OneStep Tag ReverseTrans PCR Master Mix is an optimized ready-to-use 2X concentrated RNA amplification mixture containing M-MuLV Reverse Transcriptase, RNase Inhibitors, Tag DNA Polymerase, reaction buffer and dNTPs. It contains all the components required for routine RNA amplification except template and primers. Moloney Murine Leukemia Virus (M-MuLV) Reverse Transcriptase has the absence of RNase H activities that enhance the synthesis of long cDNAs and amplification of long transcripts. 2X ViRed OneStep Tag ReverseTrans PCR Master Mix allows one-step RT-PCR using only gene-specific primers. 2X ViRed OneStep Taq ReverseTrans PCR Master Mix contains the inert red dye and stabilizers that allow the direct loading of final PCR products onto gels for electrophoresis. The red color dye migrates at approximately 400bp on 1% agarose gel in 1X TBE Buffer.

#### Features :

- Suitable for all routine RNA amplification applications.
- Reduces set-up time and buffer-dye mixing
- Minimizes potential contamination due to reduced number of tests and pipetting steps.
- Easy confirmation of complete mixing
- No additional loading dye needed
- direct loading of final products onto gels.

#### Storage and Stability :

- 2X ViRed OneStep *Taq* ReverseTrans PCR Master Mix is stable at -20°C for one year or 4°C for 6 months if properly stored.
- 2X ViRed OneStep *Taq* ReverseTrans PCR Master Mix is stable for 20 freeze-thaw cycles. To avoid frequent freeze-thaw, keeping small aliquot at -20°C is recommended.
- For daily use, keeping an aliquot at 4°C is recommended.

#### Quality Control :

All preparations are assayed for contaminating endonuclease, exonuclease, and non-specific RNase activities. Functionally tested in DNA amplification.

Product Use Limitation This product is for research purpose and *in vitro* use only

2X ViRed OneStep Taq ReverseTrans PCR Master Mix

before adding

Incubate primer-RNA template mix

at

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°C for 5

min

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