

# Amamus M-MLV Reverse Transcriptase

Cat. No.	Size
PBIMV0030	10,000 units



## Applications

- 01 Synthesis of first-strand cDNA for cloning
- 02 RT-PCR applications for amplification from RNA targets (e.g., RNA virus)
- 03 cDNA library construction for RNA-Seq transcriptome studies

Storage buffer

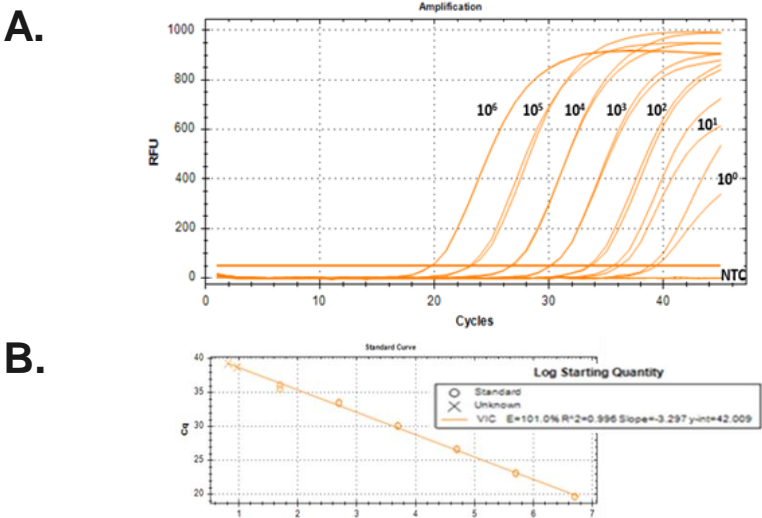
## Description

Amamus M-MLV (Moloney Murine Leukemia Virus) Reverse Transcriptase is a recombinant RNA-directed DNA polymerase that is capable for preparation of first-strand cDNA using an RNA template. The enzyme is modified to reduce RNase H activity and increase thermal stability enabling improved synthesis of full-length cDNA even for long mRNA.

## Features

- Purity  $\geq 90\%$  , no nuclease residues, low bacterial gDNA contamination ( 10 units  $\leq$  1 copies level ).
- Supports reverse transcription in a wide temperature range (37-50°C).

## Validation Data



**Figure. High sensitivity detection of low copy number RNA target.** Amamus M-MLV was used in One-Step RT-PCR Reaction to amplify the portion of nucleoprotein gene (N gene of coronavirus). Quantified N gene RNA transcript was used as template and serial diluted to the following gradients: 5 copies to  $5 \times 10^6$  copies (over 5 orders of magnitude). The amplification profiles illustrate (A) a very good linearity, down to 5 copies , (B) very good correlation coefficient ( $R^2 = 0.996$ ), and qPCR reaction efficiency (101%).