

FS-RT-1022 cDNA Synthesis Kit (plus gDNA Eraser)

Introduction

The **cDNA Synthesis Kit** is optimized for the synthesis of the First Strand cDNA, from different types of RNA.

The kit contains a mixture with both oligo(dT)₁₈ and pd(N)₉ random hexamer primers.

It is suitable for the synthesis of cDNA up to 13 kb.

The gDNA Eraser included in the kit, can quickly and completely remove genomic DNA.

Suitable for reverse transcription of various RNAs such as mRNA, lncRNA and circRNA.

The kit can also be used for gene-specific reverse transcription, such as miRNA reverse transcription.

Kit Components

Components	FS-RT-1022 50 RXNS	FS-RT-1023 200 RXNS
Reverse Transcription Primer Mix*	100 µL	400 µL
RNase Inhibitor (40U/µL)	2 x 1,000 units	8 x 1,000 units
gDNA Eraser	50 µL	200 µL
5 X gDNA Eraser Buffer	100 µL	400 µL
Reverse Transcriptase (200 U/ul)	10,000U/ 50ul	40,000U/ 200ul
5 X Reverse Transcriptase Buffer	0.5 mL	1.0 mL
RNase-Free ddH ₂ O	1.5 mL	1.5 mL
dNTPs (10mM each)	50 µL	200 µL

*(it includes Oligo dT and Random Primer)

Highlights

- Full-length first strand cDNA up to 13 kb
- Optimum reaction temperature 42°C
- Complete kit—all the components for the RT reaction are included

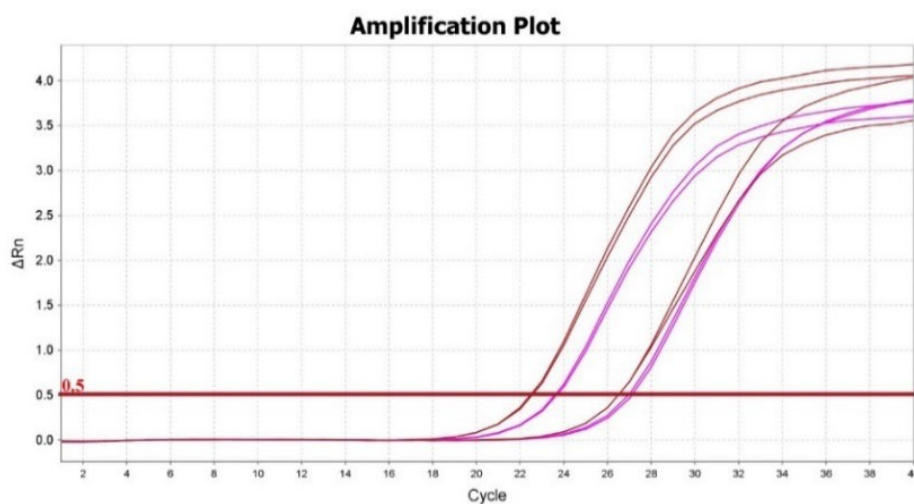
Applications

- First strand cDNA synthesis for RT-PCR and RT-qPCR
- Construction of full length cDNA libraries
- Primer extension.
- RNA sequencing

CAT.n°	Description	Size
FS-RT-1022	cDNA Synthesis Kit (with gDNA Eraser)	50 RX
FS-RT-1023	cDNA Synthesis Kit (with gDNA Eraser)	200 RX

Related Products

CAT.n°	Description	Size
FS-RT-1033A	M-MLV Reverse Transcriptase 40,000 U with RT Buffer	200 µl
FS-ODT-50 FS-ODT-200	Oligo dT (15 primer)	50 µl 200 µl
FS-RH-50 FS-RH-200	Random Hexamer Primer	50 µl 200 µL
FS-RT-1152	RNase Inhibitor (40U/uL)	1,000units



This test is mainly aimed at the reverse transcription efficiency of the reverse transcription kit. Fluorescence quantification after reverse transcription of 1ng/10ng total RNA is used to compare the difference of CT. At the same time, it is confirmed that the RNA content of NG level can also be detected after reverse transcription, reflecting the high sensitivity of the kit. The sample is rat muscle tissue

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