

MaestroScript II Two Step Reverse Transcription Kit

Catalog# GF1062-25 25 Rxn
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Kit Content:

Component	GF1062-25	GF1062-50
2× MaestroScript II RT Super Mix	50 µl x 5	100 µl x 5
Random hexamers (0.1 µg/µl)	25 µl	50 µl
RNase free H ₂ O	0.5 ml	1 ml

Description: Gene-Foci MaestroScript II Two-Step RT-PCR Kit is a second generation First-Strand cDNA Synthesis Kit. The super mix contains the superb MaestroScript II reverse transcriptase developed by Gene-Foci. This enzyme has enhanced RNA-directed DNA polymerase activity and reduced RNase H activity, and tolerates higher temperature, which reduces secondary structures of RNA template, facilitates RT processivity. All reagents except RNA template required for RT reaction are included, makes it very easy to set up first-strand cDNA synthesis reaction. The super mix has been optimized for easy, convenient and high efficiency synthesis of full-length first strand cDNA.

Features: Efficient synthesis of full-length first strand cDNA up to 12 kb.

RTase, RNase Inhibitors and reaction buffer in a master mix, simplifies reaction setup steps.

High yields of full length cDNA.

Tolerates higher reaction temperature

Incorporates modified nucleotides.

Storage : Store at -80°C or -20°C. Avoid repeated freeze and thaw.

Protocol

1. To setup a 20µl PCR reaction, add the following components into a nuclease-free PCR tube:

Components	Volume
Total RNA/mRNA	50 ng-5 µg/5-500 ng
Random Primer(0.1 µg/µl)	1 µl
2× MaestroScript II RT SuperMix	10 µl
RNase free H ₂ O to final volume	To 20 µl

2. Mix contents of the tube gently.

3. Incubate at 25°C for 5 min, then 42°C -50°C for 50 min.

4. Inactivate the reaction by heating at 65°C for 5 min.

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