



RG miRNA cDNA Synthesis Kit

Components of the kit:

- RG Poly(A) Polymerase Enzyme (CN: RG-Poly AE), 25 μ L
- RG Poly(A) Polymerase Reaction Buffer 10X (CN: RG-Poly A Buffer), 25 μ L
- RG ATP 10mM (CN:RG-ATP), 25 μ L
- RG RT Enzyme (CN:RG-RT), 25 μ L
- RG RT Buffer (CN:RG-RTB), 100 μ L
- RG dNTP(CN:RG-DNTP), 50 μ L

*Keep at -20 °C

**Work on ice

1.Poly Adenylation:

Poly(A) Polymerase Enzyme	0.5-1 μ L
Reaction Buffer 10X	1 μ L
ATP(10mM)	1 μ L
RNA Template	0.5-2 μ g
(RNase free Water)	variable
Total valume	10μL

- Incubate reaction at 37°C for 30 minutes.
- Stop the reaction by adding EDTA to a final concentration of 10 mM or directly proceeding to the cleanup step (for thermal inactivation, incubate 5mins at 80°C).

2.cDNA Synthesis:

Poly(A) Adenylation Product	The whole reaction(10 μ L)
RT Enzyme	1 μ L
RT Buffer	4 μ L
dNTP	2 μ L
Specific Primer	variable
(RNase/DNase free Water)	variable
Total valume	20μL

1. Incubate reaction at 25°C for 3 mins
2. Incubate at 48°C for 30 mins
3. Incubate at 80°C for 5 mins.



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