



## RScript Hot 5X RT MasterMix

**Cat. No. G590EU**

Store at -20°C.

### Product Description

**RScript Hot 5X RT MasterMix** is a convenient, ready-to-use formulation designed for efficient first-strand cDNA synthesis. This product simplifies the cDNA synthesis process, ensuring reliability and reproducibility. The optimized 5X RT MasterMix contains **abm**'s proprietary RScript Hot Reverse Transcriptase, RNaseOFF Ribonuclease Inhibitor, dNTPs, and a carefully balanced ratio of Oligo(dT)s and Random Primers. The resulting high-quality cDNA is suitable for a wide range of downstream applications.

Product Component	Quantity	Part No.
RScript Hot 5X RT MasterMix	100 rxn (400 µl)	P590-1EU
Nuclease-Free H <sub>2</sub> O	1.0 ml	P100

### Protocol

1. Thoroughly thaw and mix individual components before use, and assemble reaction on ice.

Component	Volume
RScript Hot 5X RT MasterMix	4 µl
Total RNA or poly(A) + mRNA	Variable (1 ng - 2 µg/rxn)
Nuclease-free H <sub>2</sub> O	up to 20 µl

2. Gently mix the reaction and briefly centrifuge.
3. Incubate the mixture at 60°C for 10 minutes.
4. Optional: Stop the reaction by heating at 95°C for 3 minutes. Chill on ice. The newly synthesized first-strand cDNA is ready for immediate downstream applications, or for long-term storage at -20°C.

### General Notes

- Both poly(A) + mRNA and total RNA can be used for first-strand cDNA synthesis, but poly(A) + mRNA may give higher yields and improved purity of final products.
- For longer transcripts, incubate the mixture at 60°C for up to 30 minutes.
- If input RNA samples are expected to have high levels of genomic DNA contamination, we recommend using **abm**'s All-In-One 5X RT MasterMix with gDNA Removal (Cat. No. **G592**).