



Applied Biological Materials Inc.

Tel: 1-866-757-2414
Email: info@abmGood.com
Website: www.abmGood.com

OneScribe T7 Transcription Kit

Store at -20°C

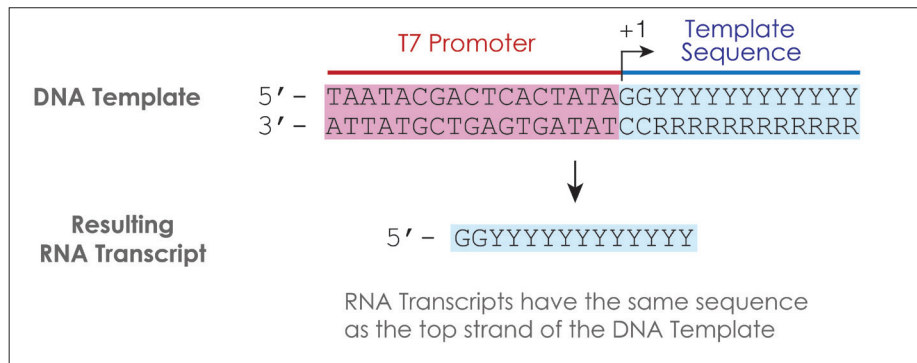
Table with 3 columns: Cat. No., Kit Component, Quantity. Lists components like OneScribe Enzyme Mix, 10X Transcription Buffer, ATP Solution, etc.

Description

The OneScribe T7 Transcription kit is a complete reagent kit designed for high yield in vitro transcription of RNA utilizing T7 RNA Polymerase.

Template Considerations

Synthetic DNA oligonucleotides, PCR products, or linearized plasmid DNA that contain a double-stranded T7 promoter region upstream of the template sequence can serve as a template for in vitro transcription.



Basic Protocol

In vitro transcription reactions should be assembled in an RNase-free environment. The use of clean, automatic pipettes and aerosol-resistant barrier tips is recommended.

- 1. Thaw DNA templates and all reagents on ice. Mix each solution by vortexing gently.
2. Prepare the following 20 µl reaction at room temperature in this order:

Table with 2 columns: Component, Volume. Lists components like Nuclease-Free H2O, 10X Transcription Buffer, ATP solution, etc.

- 4. Mix gently and incubate the reaction at 37 °C for 60 to 120 minutes (up to 240 min for templates under 500 bp).
5. After incubation, products can be used directly in downstream applications, or stored.

Note 1: When preparing many reactions at once a master mix may be prepared by mixing water, 10X Transcription Buffer and NTPs to reduce pipetting steps.

Note 2: Shorter transcripts typically yield a lower mass but a higher mole number of RNA. The resulting transcript from the OneScribe Control template is 1.8 kb in length.

DNase I Treatment (optional)

- 1. To remove template DNA, the transcription reaction from step 5 (above) may be treated with DNase I by preparing the following reaction:

Table with 2 columns: Component, Volume. Lists components like OneScribe Transcription reaction, Nuclease-Free H2O, 10X DNase I Reaction Buffer, etc.

- 2. Incubate the reaction at 37 °C for 15 minutes.
3. After incubation, the products can be used directly in downstream applications, stored at -20 °C for up to six months, and stored at -80 °C long-term.

For laboratory research only. Not for clinical applications.
For technical questions, please email us at technical@abmgood.com
Or visit our website at www.abmGood.com