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[Transcription and Translation Reagents](#) ▶ MEGAscript™ T7 Transcription Kit

Invitrogen™

MEGAscript™ T7 Transcription Kit

Catalog number: AM1333**Related applications:** [In Vitro Transcription](#)[Technical Support](#) | [Customer Service](#)

Catalog Number	AM1333
Unit Size	25 reactions
Price (USD)	Price: 291.00 Your Price: Sign In ⓘ
Availability ⓘ	In stock



Quantity

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Unit Size	200 reactions
Price (USD)	Price: 1,492.00 Your Price: Sign In ⓘ
Availability ⓘ	In stock



Quantity

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Catalog Number	AM1334
Unit Size	40 reactions
Price (USD)	Price: 440.00 Your Price: Sign In ⓘ
Availability ⓘ	In stock



Quantity

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Product Overview[Figures](#)[Recommendations](#)[Documents](#)[FAQ](#)

The MEGAscript™ T7 Kit is an ultra-high yield *in vitro* transcription kit. The high yields are achieved by modifying typical transcription reaction conditions so that very high nucleotide concentrations can be effectively used. The T7 Enzyme Mix and the 10X Reaction Buffer are specifically calibrated for each lot and RNA polymerase.

Using the MEGAscript™ T7 Kit

The MEGAscript™ T7 Kit contains *in vitro* transcription reaction components and a control template. The kit will yield a total of 3–5 mg of RNA (approximately 100 µg of RNA or more per reaction) from the control template supplied with the kit. This



Applications

The MEGAscript™ T7 Kit is intended for the synthesis of large amounts of unlabeled or low specific activity RNA for a variety of uses, including *in vitro* translation, antisense/microinjection studies, and isolation of RNA binding proteins. In large-scale transcription reactions, the concentration of all 4 nucleotides is high, well above the K_m for the enzyme. The MEGAscript™ T7 Kit typically yields over 10 times more RNA than conventional *in vitro* transcription reactions. The kit is not recommended for synthesis of high specific activity probes.

Accessory products

MessageAmp™ aRNA amplification kits are powered by MEGAscript™ technology and have been developed especially for the amplification of cRNA prior to array analysis. To purify *in vitro* transcription products from free nucleotides, buffer components, and enzymes, we recommend using the MEGAclean™ Kit (Cat. No. AM1908) and the MEGAclean™-96 Kit (Cat. No. AM1909).

For Research Use Only. Not for use in diagnostic procedures.

Specifications

Final Product Type	Synthetic mRNA, mRNA
Format	Kit
Sample Type	mRNA, Synthetic mRNA
For Use With (Application)	In Vitro Transcription, synthetic mRNA, mRNA, transfection, LNPs, GENEart, linearized DNA plasmid, delivery, PCR products
No. of Reactions	25 Reactions
Product Line	Ambion™, MEGAscript™
Product Type	T7 In Vitro Transcription kit
Quantity	25 Reactions
Promoter	T7



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Material**

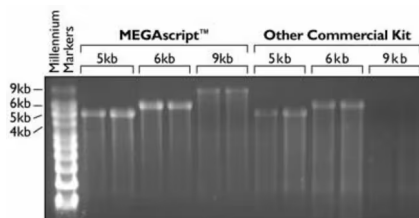
PCR Products, Linearized DNA plasmid

Contents & Storage

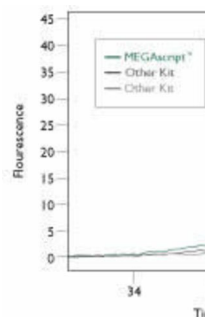
T7 Enzyme Mix, 10X Reaction Buffer, ATP Solution, CTP Solution, GTP Solution, UTP Solution, pTRI-Xef, TURBO DNase, Ammonium Acetate Stop Solution, Lithium Chloride Precipitation Solution, and Gel Loading Buffer II are all stored at -20°C . Nuclease-free Water may be stored at any temperature.

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Figures

Transcription of long
templates with the
MEGAscript™ Kit and a



MEGAscript™ y
comparison.

**Customers who viewed this item also viewed**



Documents & Downloads

Certificates

Lot #	Certificate Type	Date	Catalog Number(s)
 2880406	Certificate of Analysis	Jan 02, 2024	AM1334
 2880856	Certificate of Analysis	Jan 02, 2024	AM1333
 2880829	Certificate of Analysis	Jan 02, 2024	AM1333
 2877399	Certificate of Analysis	Dec 20, 2023	AM1334
 2877379	Certificate of Analysis	Dec 20, 2023	AM1334

5 results displayed, search above for a specific certificate





Product Information

Manuals

[MEGAscript™ Kit Instruction Manual](#)

Protocols

[Protocol for Synthesizing Biotinylated aRNA](#)

Frequently asked questions (FAQs)

Is there a minimum length of template that can be used with the MEGAscript kit?

[Answer](#) +

Can I substitute the enzyme mix in the MEGAscript T7 Transcription Kit (Cat. No. AM1333) with T7 RNA Polymerase-Plus Enzyme Mix (Cat. No. AM2718)?

[Answer](#) +

With the MEGAscript T7 Transcription Kit, can the T7 polymerase synthesize RNA from a single-stranded DNA template, containing the T7 promoter sequence, or does it require a double-stranded DNA promoter sequence to work?

[Answer](#) +