

Post-transfection, capped and tailed mRNA has increased stability and translation efficiency in most eukaryotic cell lines. The mScript™ System improves upon existing capping methods by ensuring virtually 100% transcript capping, all caps in the proper orientation and the ability to produce large amounts of capped RNA at a reasonable cost. Additionally, the A-Plus™ Poly(A) Polymerase protocol provides a wide range of poly(A) tail lengths from 150–300+ bases. The final synthesized mRNA is suitable for use in transfection and microinjection experiments as well as with *in vitro* translation systems.

Performance Data

The T7 mScript™ Standard mRNA Production System V2 is functionally tested under standard reaction conditions using the T7 Control Template DNA and independent transcripts. The *in vitro* transcription module must produce at least 60 µg of RNA from 1 µg of the ~1.4 kb T7 Control Template DNA in 15 minutes at 37°C. A-Plus™ Poly(A) Polymerase is functionally tested in 1X A-Plus™ Poly(A) Tailing Buffer with 1 mM ATP and a 1.4 kb transcript. The capping module enzymes are tested independently using non-T7 control transcript RNA to assay for completeness of reaction.

Ordering information

Catalog Number	Description
C-MSC11610	T7 mScript™ Standard mRNA Production System V2 (10 reactions)
C-MSC100625	T7 mScript™ Standard mRNA Production System V2 (25 reactions)

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