

# Prima RNApols™ ExTend Cap AU Kit



## NEXT-GEN POLYMERASE FOR SELF-AMPLIFYING mRNA

Expanding on our innovative RNA polymerases, the Prima RNApols™ ExTend Cap AU kit is designed to maximize yield and capping efficiency during *in vitro* transcription (IVT) of self-amplifying mRNA. Achieve higher-quality mRNA with less dsRNA than T7. The efficient use of IVT reagents enables reductions in mRNA manufacturing costs.

## KEY FEATURES & BENEFITS



**High AU capping efficiency** – Achieve >95% capping efficiency with less cap, lowering reagent requirements.



**Ultra-low dsRNA** – All Prima RNApols minimize unwanted IVT byproducts, reducing downstream purification needs and improving the safety and performance of mRNA therapeutics.



**High yield of self-amplifying RNA** – Delivers consistently higher yield while maintaining integrity and fidelity compared to T7 polymerases.



**Cost-efficient manufacturing** – Use less template, enzyme, and cap analog for significant cost savings.

### KIT CONTAINS:

**20,000 U RNA  
Polymerase (100 µL)**

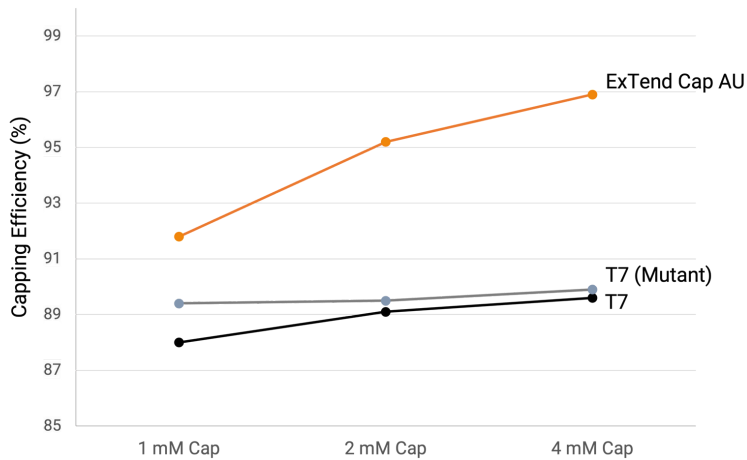
**9.5 kb Linearized saRNA  
Template (25 µL)**

**5x Reaction Buffer (100 µL),  
4 vials**

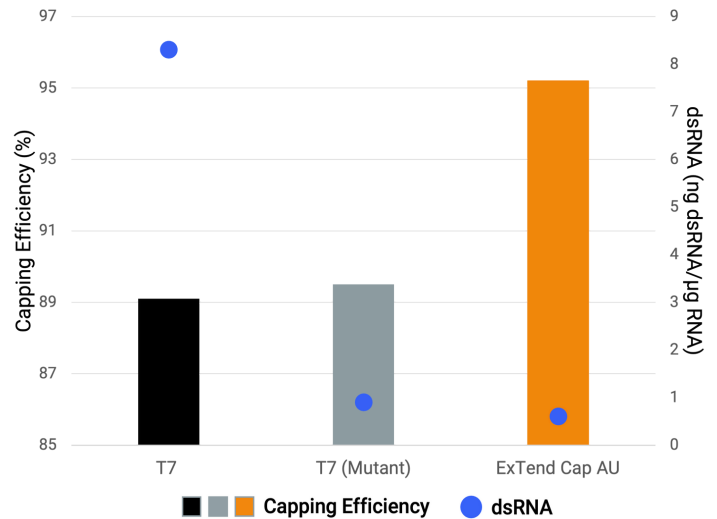
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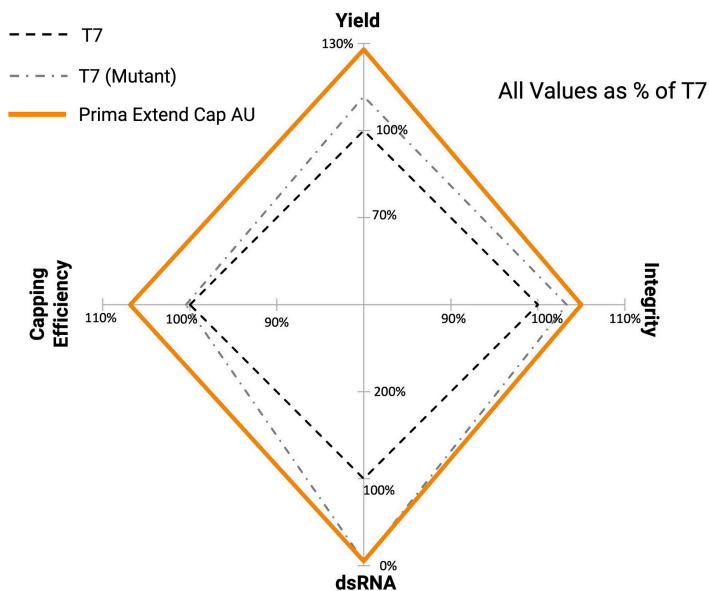
# HIGHER EFFICIENCY. LOWER INPUTS. SAME TOP PERFORMANCE.



Capping efficiency on 9.5 kb saRNA determined by LC-MS; 4nM DNA template, 9 mM NTPs, 5 U polymerase/ $\mu$ L IVT



Capping efficiency on 9.5 kb saRNA determined by LC-MS; dsRNA determined by J2 ELISA; 4nM DNA template, 9 mM NTPs, 5 U polymerase/ $\mu$ L IVT, 2 mM cap analog



Yield was determined using A260 on 9.5 kb saRNA; Integrity was determined using Agilent Fragment Analyzer; Capping efficiency determined by LC-MS; dsRNA determined by J2 ELISA; 4nM DNA template, 9 mM NTPs, 5 U polymerase/ $\mu$ L IVT, 2 mM cap analog

## Transform your mRNA pipeline today

Do more with less.  
Unmatched capping efficiency.  
No trade-offs.



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