



PRIMA 7 PRO



FOR T7-PROMOTER WORKFLOWS

Prima RNAPols® 7 Pro is a T7-promoter compatible RNA polymerase designed to improve RNA synthesis while preserving existing T7-promoter DNA templates. It supports improved yield and capping efficiency, >100x dsRNA reduction, AG and AU capping, and strong translatability without promoter redesign.

KEY BENEFITS

T7

T7 Promoter Compatibility

Use existing T7-promoter DNA templates to capture Prima RNAPols® performance benefits without promoter redesign.

UP TO

31%

Higher Capping Efficiency & Yield

Up to 31% higher capping efficiency than T7, with improved yield on AG or AU transcription start sites.

>100x

Ultra-Low dsRNA & Improved Translatability

Reduce dsRNA by >100x and help minimize unwanted byproducts to support cleaner RNA with higher translatability.

KIT CONTAINS

20,000 U
RNA Polymerase
(100 µL)

2 kb Linearized
DNA Template
(25 µL)

5x Reaction Buffer
(100 µL)
4 vials



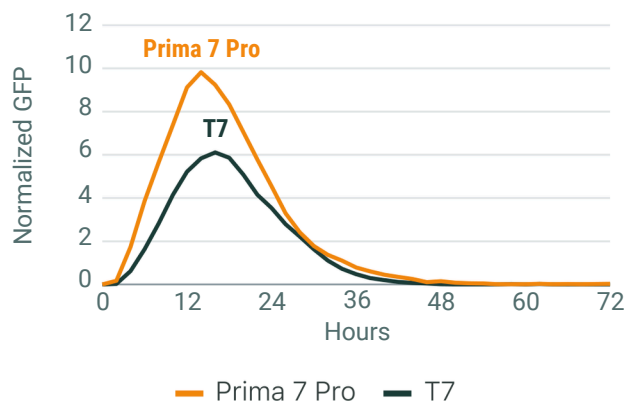
\$329

IMPROVE RNA SYNTHESIS WITHOUT PROMOTER REDESIGN.

Robust enzymes optimized for consistent, scalable RNA manufacturing.

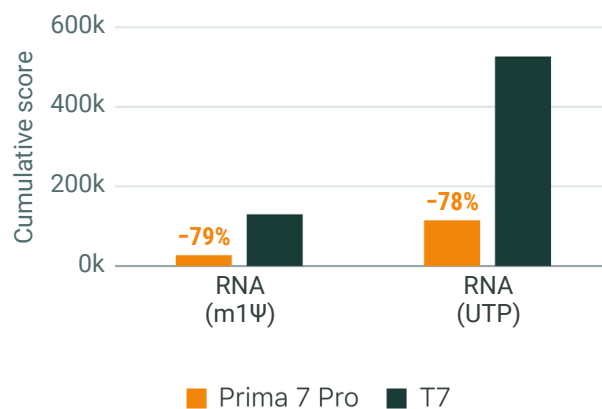
TRANSLATION EFFICIENCY

1.6X HIGHER PROTEIN EXPRESSION

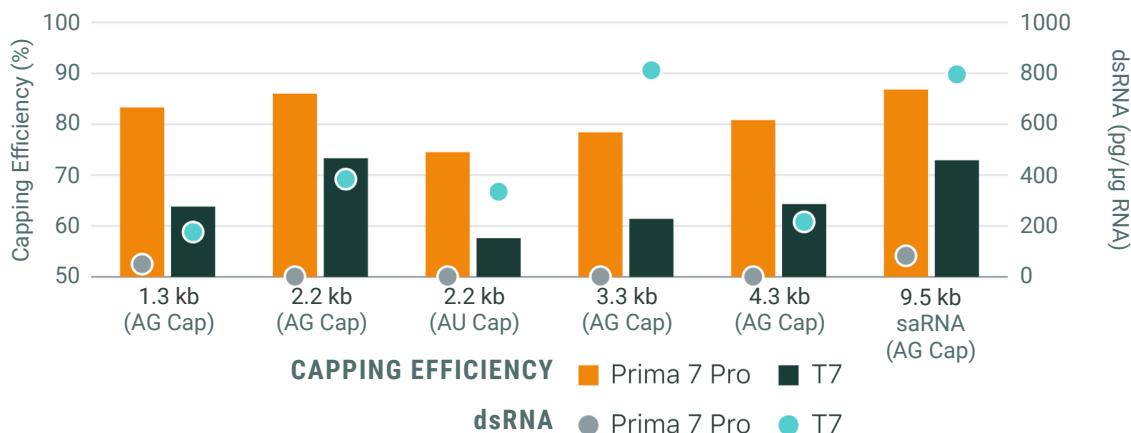


IMMUNOGENICITY

CUMULATIVE SCORING



CAPPING EFFICIENCY & dsRNA



Translatability of 1.3 kb GFP template measured by fluorescence. The same amount of RNA generated by either polymerase was transfected.

Cumulative immunogenicity score: sum of HEK-Lucia RIG-I and THP1-Dual reporter responses. % decrease vs. T7 shown above each bar. Lower dsRNA levels reduce activation of innate immune sensors, consistent with the lower immunogenicity observed.

Capping efficiency determined by LC-MS; dsRNA determined by dot-blot; similar IVT conditions used for each IVT including 4.5 mM AU cap or 2 mM AG cap, and 9 mM NTPs.

TRANSFORM YOUR RNA PIPELINE TODAY

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[primrosebio.com](https://www.primrosebio.com)