Simplicity meets superior mRNA with CleanCap® IVT kits

Synthesize capped mRNAs at high yield and low dsRNA—all in one step

TriLink's CleanCap® AG (3' OMe) CleanScript™ IVT Kit includes all necessary components to produce mRNAs by *in vitro* transcription (IVT) with CleanCap® co-transcriptional capping, incorporating our innovative mRNA technologies to enhance your results significantly.

- **Over 95% capping efficiency**
  Co-transcriptional capping with CleanCap® AG (3' OMe)—a modified version of CleanCap® AG to improve protein expression—produces constructs with a cap 1 in one step with high efficiency.
- **Up to 2x mRNA yield**
  Synthesis of mRNA following TriLink's CleanScript® IVT protocol—optimized for high yield and low double-stranded RNA (dsRNA)—increases yields by up to twice that of the standard IVT protocol to 10 mg/mL.
- **Up to 85% dsRNA reduction**
  The enzyme mix containing our novel CleanScribe™ RNA Polymerase instead of wild-type T7 RNA polymerase in the CleanScript IVT further reduces dsRNA formation.

CleanCap mRNA synthesis and capping kit
Simplifying IVT, elevating results

TriLink BIOTECHNOLOGIES
part of Maravai LifeSciences

Maximize mRNA yield while minimizing dsRNA formation

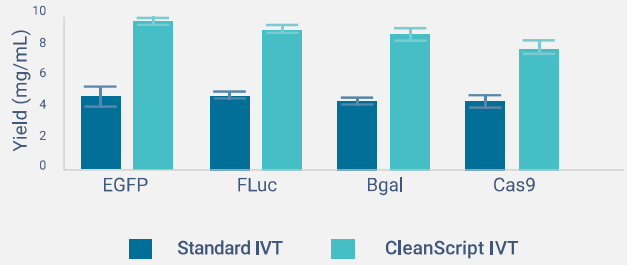

Figure 1. Up to two-fold increase to 10 mg/mL of mRNA yield across four constructs following TriLink's CleanScript IVT protocol than the standard protocol.

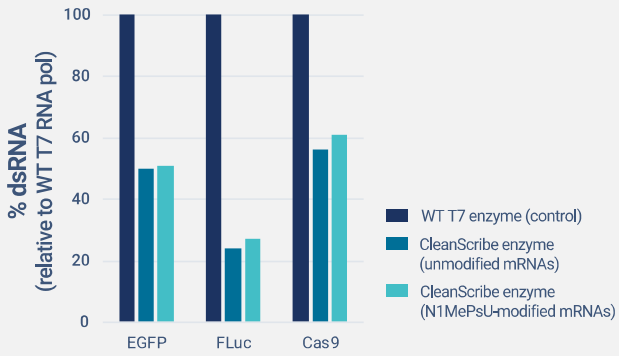

Figure 2. Up to 85% reduction of dsRNA formation measured by ELISA in three mRNA constructs —with or without N1-methylpseudorudine (N1MePsU) modification— by using CleanScribe RNA Polymerase in place of wild-type (WT) T7 RNA polymerase in IVT.

Obtain more robust mRNAs using our IVT kit

Our CleanCap AG (3' OMe) CleanScript IVT Kit provides mRNAs with low dsRNA to help you minimize unwanted inflammatory responses by preventing the activation of the innate immune system and enhance protein expression.

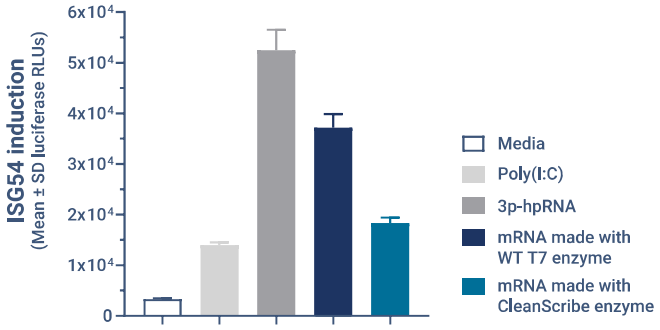

Figure 3. Lower immune response in A549-Dual® cells from using mRNAs made with CleanScribe RNA Polymerase than with WT T7 RNA polymerase. Poly(I:C) and 3p-hpRNA are positive controls.

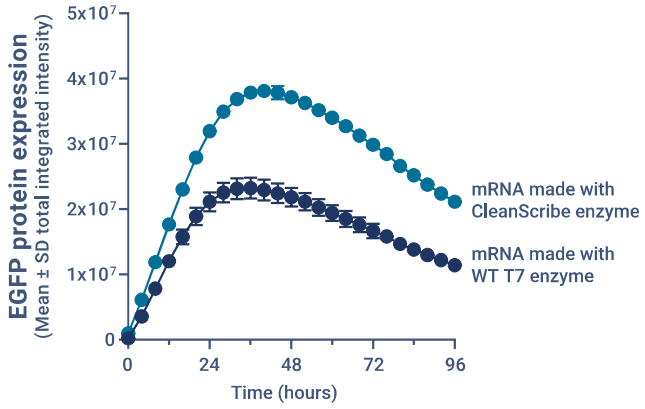

Figure 4. Higher protein expression in A549 cells from using mRNAs made with CleanScribe RNA Polymerase than with WT T7 RNA polymerase.

Ordering information

Description	Catalog number	Reaction size
CleanCap® AG (3' OMe) CleanScript™ IVT Kit	K-7413-25	25 x 100 µL or 125 x 20 µL

Contact us today:

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Syntezza