

The FLuc mRNA will express a luciferase protein, originally isolated from the firefly, *Photinus pyralis*. FLuc is commonly used in mammalian cell culture to measure both gene expression and cell viability. It emits bioluminescence in the presence of the substrate, luciferin. This mRNA is capped using CleanCap™, TriLink's proprietary co-transcriptional capping method, which results in the naturally occurring Cap 1 structure with high capping efficiency. It is polyadenylated, modified with 5-methoxyuridine and optimized for mammalian systems. It mimics a fully processed mature mRNA.

L-7202-100 (100 µgrams)
L-7202-1000 (1 mg)
L-7202-BK (Bulk amount)

1.0 mg/mL in 1mM Sodium Citrate (pH 6.4)
mRNA Length: 1921 nucleotides

Store at or below -40°C

QC Analysis

Identity and Purity
Agarose Gel Mobility; Pass
Concentration: ± 6%; Pass

Product released by Quality Assurance

¹A standard conversion factor of 40 µg/OD₂₆₀ was used to calculate quantity.

Handling

Store at or below -40°C. Thaw and work with FLuc mRNA on ice. Upon first use, pulse spin before opening and aliquot into single use portions. Do not vortex. Use only certified RNase-free reagents and consumables with proper RNase-free technique. Use of barrier tips is recommended. Avoid freeze/thaw cycles. Do not mix with media containing serum unless first complexed with a stabilizing transfection reagent.

Products containing the CleanCap technology are for research use only. Not for use in diagnostic or therapeutic procedures. Use of CleanCap technology may be covered by one or more patents or pending Patent Applications. www.trilinkbiotech.com/cleancap/license.asp.

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The Modified Nucleic Acid **Experts™**