

Renilla luciferase (Renilla Luc) is a bioluminescent reporter protein derived from *Renilla reniformis* (sea pansy) (Lorenz, et al). In the presence of the cofactor, coelenterazine, *Renilla luciferase* produces light. Renilla Luc mRNA can be used as an internal control in combination with FLuc mRNA to test different conditions, such as dosage or chemical modifications, and their effect on translation.

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-7204-100 (100 µgrams)
L-7204-1000 (1 mg)
L-7204-BK (Bulk amount)

1.0 mg/mL in 1mM Sodium Citrate (pH 6.4)
mRNA Length: 996 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 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.

References

Lorenz WW, McCann RO, Longiaru M, Cormier MJ. Isolation and expression of a cDNA encoding Renilla reniformis luciferase. Proc Natl Acad Sci USA. 1991 May 15;88(10):4438-42.

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