

GLuc mRNA (N1-Me-Pseudo UTP)

Catalog No. CT084

Overview

GLuc mRNA (N1-Me-Pseudo UTP) encodes Gaussia luciferase (GLuc), a bioluminescent enzyme. After transfection, it is expressed in cells to produce Gaussia luciferase protein. This enzyme was originally isolated from the marine copepod *Gaussia princeps*. Gaussia luciferase catalyzes the oxidation of its substrate coelenterazine, resulting in light emission with a wavelength of approximately 480 nm. The luminescence intensity directly reflects the expression level of the luciferase. This product can serve as a positive control for mRNA transfection, or be used for screening and validation of delivery vectors, as well as for verification of expression systems and manufacturing processes.

Composition

Specification	CT084-01	CT084-10	CT084-100
GLuc mRNA (N1-Me-Pseudo UTP)	100 µg	500 µg	1 mg

Information

Product Name	GLuc mRNA (N1-Me-Pseudo UTP)
mRNA Length	818 nt
Concentration	1 mg/mL
Storage buffer	MilliQ water
Storage Temperature	-80°C to -65°C
Shipping Conditions	Shipped on dry ice

Applications

1. Optimization of formulation or manufacturing process
2. Screening and validation of delivery vectors
3. Positive control
4. Verification of expression systems

Notes

This product is for research use only. It is not intended for use in human or veterinary diagnosis or therapy.



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