

## Rluc mRNA(N1-Me-Pseudo UTP)

Catalog No. CT097

### Overview

Rluc mRNA (N1-Me-Pseudo UTP) encodes Renilla luciferase (Rluc), a bioluminescent enzyme. After transfection, it is expressed in cells to produce the Renilla luciferase protein, which was originally isolated from the sea pansy *Renilla reniformis*. Renilla luciferase catalyzes the oxidation of coelenterazine to produce blue bioluminescence with an emission 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	CT097-01	CT097-10	CT097-100
Rluc mRNA (N1-Me-Pseudo UTP)	100 µg	500 µg	1 mg

### Information

Product Name	Rluc mRNA(N1-Me-Pseudo UTP)
mRNA Length	1198 nt
Concentration	2 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.

