

## Beta-Gal mRNA (N1-Me-Pseudo UTP)

Catalog No. CT110

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### Overview

After transfection, Beta-Gal mRNA (N1-Me-Pseudo UTP) is expressed in cells to produce  $\beta$ -galactosidase ( $\beta$ -gal).  $\beta$ -Galactosidase is the protein product of the LacZ gene from *Lactobacillus*, and it catalyzes the hydrolysis of  $\beta$ -galactosides into monosaccharides. In molecular biology,  $\beta$ -gal is commonly used as a reporter gene for assessing transfection efficiency. This product can serve as a positive control for mRNA transfection and is suitable for formulation screening and validation of delivery systems, as well as for verification of expression systems and manufacturing processes.

### Composition

Specification	CT110-01	CT110-10	CT110-100
Beta-Gal mRNA (N1-Me-Pseudo UTP)	100 $\mu$ g	500 $\mu$ g	1 mg

### Information

Product Name	Beta-Gal mRNA (N1-Me-Pseudo UTP)
mRNA Length	3406 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.

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