

## NanoLuc (Nluc) luciferase In Vitro Transcribed mRNA-LNP

Catalog Number:MRNA-TG-010

DESCRIPTION	
Product Name	NanoLuc (Nluc) luciferase In Vitro Transcribed mRNA-LNP
Gene Name	NanoLuc (Nluc) luciferase
Source	In vitro transcribed mRNA encapsulated with LNP
Alternative names	
SPECIFICATIONS	
Cap	Cap 1
5'-UTR	5' -untranslated region derived from human alpha-globin RNA with an optimized Kozak sequence
ORF	NanoLuc (Nluc) luciferase
3'-UTR	3' UTR comprising two sequence elements derived from the aminoterminal enhancer of split (AES) mRNA and the mitochondrial encoded 12S ribosomal RNA
Poly(A) Tail	A 110-nucleotide poly(A)-tail consisting of a stretch of 30 adenosine residues, followed by a 10-nucleotide linker sequence and another 70 adenosine residues.
Modifications	N1-methyl-pseudouridine
Neutral Lipid	1,2-distearoyl-sn-glycero-3-phosphocholine (DSPC)
Cholesterol	Cholesterol
Lonizable Lipid	1,2-dimyristoyl-rac-glycero-3-methoxypolyethylene glycol-2000 (PEG2000-DMG)
PEG-lipid	Heptadecan-9-yl 8-((2-hydroxyethyl)(8-(nonyloxy)-8-oxooctyl)amino)octanoate)(SM-102)
Storage	-20 °C
Buffer	PBS, pH7.4
Cryoprotectant	Trehalose
BACKGROUND	
Gene Accession	
Gene Alias	
Background	NanoLuc luciferase (NLuc) is the newest commercially available luciferase enzyme. NLuc is a 19.1 kDa luciferase enzyme that relies on the substrate furimazine to produce high intensity, glow-type luminescence.



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