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## Renilla luciferase(Rluc)/Puromycin resistance (Puro) In Vitro Transcribed mRNA-LNP

Catalog Number: MRNA-TG-011

DESCRIPTION	
Product Name	Renilla luciferase(Rluc)/Puromycin resistance (Puro) In Vitro Transcribed mRNA-LNP
Gene Name	Renilla luciferase(Rluc)/Puromycin resistance (Pur
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	Renilla luciferase(Rluc)/Puromycin resistance (Puro)
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	



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encoded by the S. Resistance to puromycin is conferred by the Pac gene encoding a puromycin N-acetyl-transferase.

## Background

Renilla luciferase (RLuc) is commonly used as a reporter gene either on its own, or in conjunction with firefly and other beetle luciferases. Puromycin is an antibiotic derived from Streptomyces alboniger that induces chain termination during protein translation by releasing the ribosome. Puromycin is inactivated by puromycin N-Acetyltransferase