

# Green fluorescent protein (GFP) In Vitro Transcribed mRNA-LNP

Catalog Number:MRNA-TG-004

| DESCRIPTION       |  |
|-------------------|--|
| Product Name      | Green fluorescent protein (GFP) In Vitro Transcribed mRNA-LNP  |
| Gene Name         | Green fluorescent protein (GFP)  |
| 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               | Green fluorescent protein (GFP)  |
| 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  |
| Ionizable 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        | The green fluorescent protein is a protein that exhibits bright green fluorescence when exposed to light in the blue to ultraviolet range. The label GFP traditionally refers to the protein first isolated from the jellyfish <i>Aequorea victoria</i> and is sometimes called avGFP. Tagging a protein of interest with a fluorescent protein to study its function is one of the most popular applications of fluorescent proteins. |



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