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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION

EZ Cap™ EGFP mRNA (mo^{5}U)

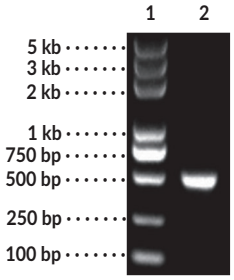
Item No. 39800

Overview and Properties

Synonym:	EZ Cap™ EGFP mRNA (5-moUTP)
Storage:	-80°C (as supplied)
Stability:	≥6 months
Supplied in:	1 mM Sodium citrate, pH 6.4
Concentration:	1 mg/ml
Ex./Em. Max:	489/511 nm

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Image



Lane 1: Markers
Lane 2: R1016 mRNA

EZ Cap™ EGFP mRNA (mo^{5}U) was analyzed by 1.5% native TAE agarose gel.

Description

EZ Cap™ EGFP mRNA encodes for enhanced GFP (EGFP), a variant of *A. victoria* GFP that contains chromophore mutations that increase the sensitivity of the protein and displays excitation and emission maxima of 489 and 511 nm, respectively.[1] It is capped using a co-transcriptional capping method, resulting in the naturally occurring Cap 1 structure with high capping efficiency. EZ Cap™ EGFP mRNA is also polyadenylated and modified with 5-methoxy-UTP (mo^{5}U) to inhibit RNA-mediated innate immune activation. Encapsulation of EZ Cap™ EGFP mRNA (mo^{5}U) in lipid nanoparticles (LNPs) can be used for mRNA delivery and expression of EGFP *in vitro* or *in vivo*.[2,3]

References

1. Zhang, G., Gurtu, V., and Kain, S.R. An enhanced green fluorescent protein allows sensitive detection of gene transfer in mammalian cells. *Biochem. Biophys. Res. Commun.* **227(3)**, 707-711 (1996).
2. Huang, Y., Yang, M., Wang, N., *et al.* Intracellular delivery of messenger RNA to macrophages with surfactant-derived lipid nanoparticles. *Materials Today Advances* **16**, 100295 (2022).
3. Li, M., Huang, Y., Wu, J., *et al.* A PEG-lipid-free COVID-19 mRNA vaccine triggers robust immune responses in mice. *Mater. Horiz.* **10(2)**, 466-472 (2023).

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