PRODUCT INFORMATION

Firefly Luc mRNA

v. 260201

Catalog number	CR00006-100UG / CR00006-1MG
Package	100 µg / 1 mg
Description	Croyez Firefly Luciferase mRNA expresses luciferase protein derived from the firefly Photinus pyralis. This enzyme facilitates ATP-dependent D-luciferin oxidation, resulting in the production of oxyluciferin—a light-emitting compound upon returning to its ground state. Widely used as a bioluminescent reporter, our mRNA, supplied at 1 mg/ ml, features a Cap 1 structure, and poly A tail. The Cap 1 structure ensures efficient translation, while poly A tail minimize host cell immune response and enhance mRNA stability. Ideal for gene expression assays, cell viability studies, and in vivo imaging, Croyez Firefly Luciferase mRNA is designed for effective and versatile applications in gene regulation research.
mRNA length	2257 nt
Base composition	Unmodified bases
Concentration	1.0 mg/ mL
Cap modification	Cap 1 structure
Poly A tail	Yes
Form	Liquid
Buffer	1 mM sodium citrate buffer, pH 6.4.
Storage	Products can be stored at -80°C or below. We recommend to aliquot the mRNA solution for better storage. Avoid repeated freeze/thaw cycles.
Shipping	The products are shipped on dry ice and should be avoided for freeze-thaw cycles.
Application	Reporter Genes

For Research Use Only. Not for use in diagnostic or therapeutic procedures.