CROYEZ

The highest-efficiency gene expression? Choose Croyz's GFP LNP-mRNA

Croyez's GFP LNP-mRNA is specifically optimized for high-efficiency delivery into hard-to-transfect immune cells such as Jurkat. The formulation utilizes sequence- optimized mRNA, advanced ionizable lipid chemistry, and functional validation to ensure robust expression with minimal cytotoxicity for both in vitro and in vivo applications.

HEK 293 T cells

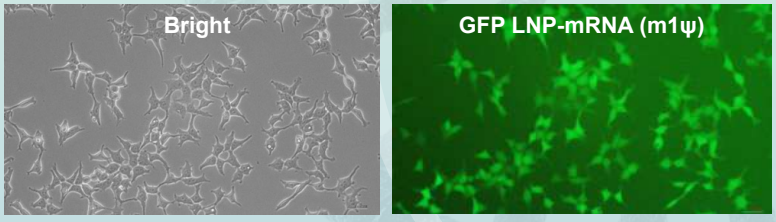
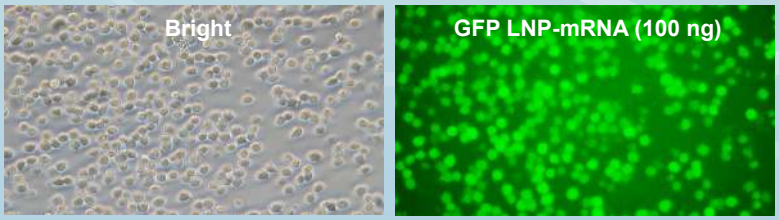


Figure 1. **HEK 293 T cells** (0.5 x 105 cells per well, 24-well plate) were transfected with 100 ng of GFP LNP-mRNA.

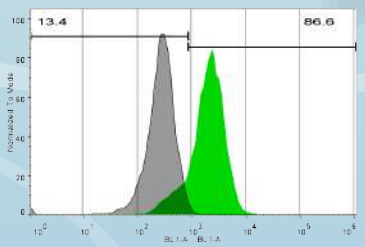
Feature

- Efficient Delivery
- Minimal Toxicity
- Superior Expression
- Broad Versatility

Jurkat cells



GFP Fluorescence intensity



	NC	GFP LNP-mRNA
GFP+	0.83%	86.6%
MFI	245	1780

Figure 2. **Jurkat cells** (2x10^5 cells per well, 24-well plate) were transfected with 100 ng of GFP LNP-mRNA.

Cell Transfection Efficiency

GFP mRNA enables quick assessment of delivery efficiency within hours, while monitoring fluorescence and cell viability..

mRNA Carrier & Delivery Validation

Evaluate LNP or lipid carriers for packaging, release, and tissue-specific uptake to confirm successful delivery.

Gene Expression Studies

Analyze how 5' Cap, 3' poly(A), or UTR designs affect mRNA stability, expression levels, and translation efficiency.

Live-Cell Imaging & Tracking

Use GFP labeling and live-cell microscopy to trace cell migration and monitor targeted populations over time.

services

Croyez provides mRNA synthesis materials and services, covering mRNA reporter genes and mRNA CRISPR-Cas9. The company is also actively developing sa-mRNA (self-amplifying mRNA) to enhance the stability and expression efficiency of vaccine development, protein replacement therapy, and gene editing.