

mRNA-Gaussia Luciferase

mRNA-Gaussia Luciferase (mRNA-GLuc) is a ready-to-use mRNA product encoding Gaussia luciferase (GLuc). It is suitable for in vitro transcription (IVT) assays, mRNA delivery studies, reporter gene detection, in vivo monitoring of secreted luciferase, and high-throughput screening experiments. GLuc is a highly sensitive secreted luciferase that enables real-time, non-lytic bioluminescence analysis by measuring luciferase activity in culture media or biological fluids, making it ideal for both in vitro and in vivo applications.

Name	Cat.No	Scale	State
mRNA-Gaussia Luciferase	HX-mRNA021	1mg	Lyophilized/Liquid

Concentration: 1mg/mL

Storage Buffer: ddH₂O pH=7.0

mRNA length: 855 nt

Amino acid sequence size: 185 kDa

Handling and Storage: store at – 80°C for long term

Cell Expression result:

Cell Line: 293T

Culture Plate: 96-well plate

Cell Conluency: 80%

Transfection Dose: 200 ng per well

Result (The assayed sample is cell culture supernatant) :

Name	Lysis Bufer (µL)	Dilution Factor	Volume Tested (µL)	Lucifera se Assay Substra te (µL)	Result
mRNA-Gaussia Luciferase	100	10	1	100	109,100
Negative	N/A	N/A	1	100	173

Amino acid sequence:

MGVKVLFALICIAVAEAKPTENNEDFNIVAVASNFATTDLDADRGKLPGKKLPLEVLKE
 LEANARKAGCTRGCLICLSHIKCTPKMKKFIPGRCHTYEGDKESAQGGIGEIVDIPEI
 PGFKDLEPLEQFIAQVDLCVDCTTGCLKGLANVQCSDLLKKWLPQRCATFASKIQGQ
 VDKIKGAGGD