

mRNA-Firefly Luciferase

mRNA-Firefly Luciferase is a ready-to-use mRNA product encoding firefly luciferase, which generates a bioluminescent signal (peak emission at ~560 nm) through the oxidation of the substrate D-luciferin.

Name	Cat.No	Scale	State
mRNA-Firefly Luciferase	HX-mRNA013	1mg	Lyophilized/Liquid

Concentration: 1mg/mL

Storage Buffer: ddH₂O pH=7.0

mRNA length: 1950 nt

Amino acid sequence size: 550 kDa

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

Cell Expression result:

Cell Line: 293T

Culture Plate: 96-well plate

Cell Confluency: 80%

Transfection Dose: 200 ng per well

Result:

Name	Lysis Buffer (μL)	Dilution Factor	Volume Tested (μL)	Luciferase Assay Substrate (μL)	Result
mRNA-Firefly Luciferase-PA4T	100	10	1	100	457,300
Negative	N/A	N/A	1	100	4,142

Amino acid sequence:

MEDAKNIKKGPAFPYPLEDGTAGEQLHKAMKRYALVPGTIAFTDAHIEVDITYAEYFEMSVRLAE
 AMKRYGLNTNHRIVVCSENSLQFFMPVLGALFIGVAVAPANDIYNERELNSMGISQPTVVFVSK
 KGLQKILNVQKKLPPIIQKIIIMDSKTDYQGFQSMYTFVTSHLPPGFNEYDFVPESFDRDKTIALIMN
 SSGSTGLPKGVALPHRTACVRFSHARDPIFGNQIIPDTAILSVPFHGFGMFTTLGYLICGFRVVL
 MYRFEELFLRSLQDYKIQSALLVPTLFSFFAKSTLIDKYDLSNLHEIASGGAPLSKEVGEAVAKRFH
 LPGIRQGYGLTETTSAILITPEGDDKPGAVGKVVFFFEAKVVDLDTGKTLGVNQRGELCVRGPMI
 MSGYVNNPEATNALIDKDGWLHSGDIAYWDEDEHFFIVDRLKSLIKYQYQVAPAELESILLQHP
 NIFDAGVAGLPDDDAGELPAAVVVLEHGKTMTEKEIVDYVASQVTTAKKLRGGVVFVDEVPKGL
 TGKLDARKIREILIKAKKGGKIAV

