

## Firefly Luciferase mRNA 产品说明书

### 01 产品描述:

Firefly Luciferase mRNA 进入细胞后会表达萤火虫荧光素酶蛋白, 在 ATP,  $Mg^{2+}$ , 氧气等存在下, 可将荧光素氧化成 D-荧光素, 并在 560nm 波长处产生荧光。通常用作基因调控和功能研究的生物发光报告基因, 适用于 mRNA 递送、细胞活力和体内成像等实验。

### 02 产品详情:

产品外观: 无色透明液体

缓冲液: DEPC 水

储存条件:  $-20^{\circ}C$  或以下保存

保质期: 1 年

RNA 长度: 2084

帽子结构: Cap1

修饰碱基:  $N^1$ -Me-Pseudo UTP

Poly(A)长度: 120 nt

浓度: 1000ng/ul

A260/280: 2.023

转染测试: 如图

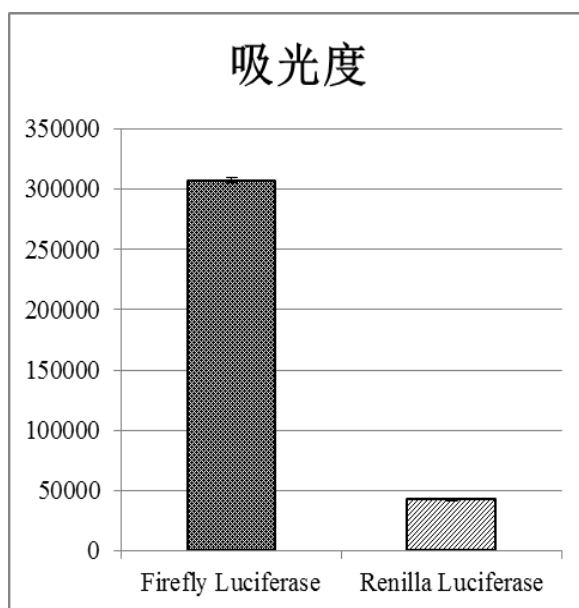
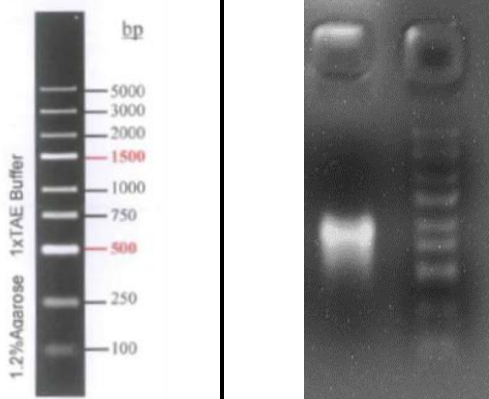


图: Firefly Luciferase 在 293T 细胞中的检测  
(内参: Renilla Luciferase)

## CoA of Firefly Luciferase mRNA

Construct Information			
RNA Name	Firefly Luciferase mRNA	Sequence length	2084nt
QC Items			
QC Items	Method	Specifications	Results
Endotoxin Control	Tachypleus Amebocyte Lysate	TAL Endotoxin Detection	Pass
Fragment Size	Agarose Gel Electrophoresis	The size of inserted fragment is right.	Pass
Quality/Quantity	UV spectrophotometry	RNA Mini Preparation: OD260/280=2.023, 1000ng/ul, in RNA-Free water.	Pass
Appearance	Visual inspection	Clear and free of foreign particles.	Pass
Customized Test	NA	NA	NA
Restriction Digestion Map			
	M	1	
			Lane M: DL5000 DNA Marker  Lane 1: Firefly Luciferase
			Certified by: <u>Hui Li</u> Date: <u>03/08/2022</u>
			Checked by: <u>Weiqiang Liu</u> Date: <u>03/08/2022</u>

Note:

1. Store at -20°C or below;
2. Avoid repeated freezing and thawing;

注：本产品仅供科学研究使用。