

# Recombinant Firefly Luciferase Protein

**Cat. No.** Luciferase-168F    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Firefly Luciferase Protein.
<b>Species</b>	Firefly
<b>Description</b>	Luciferase from the firefly has become one of the more widely used reporter proteins for the study of gene expression. Luciferase catalyzes a bioluminescent reaction which requires the substrate luciferin as well as Mg <sup>2+</sup> and ATP. Mixing these reagents with the cell extract containing luciferase, results in a flash of light that decays rapidly. This light can be detected by a luminometer. The total light emission is proportional to the luciferase activity of the sample.
<b>Purity</b>	≥95% estimated by SDS-PAGE
<b>Stability</b>	≥ 9 months
<b>Storage</b>	At -80 centigrade.
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	50 mM Tris buffer with 30% glycerol, pH 7.5

## GENE INFORMATION

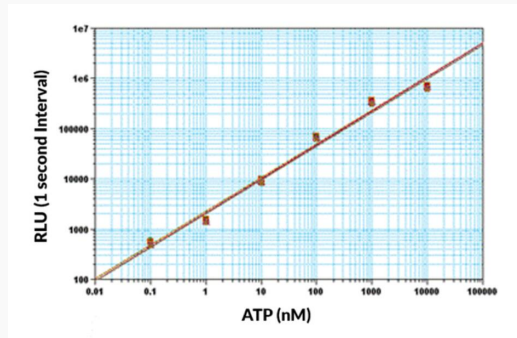
<b>Synonyms</b>	Luciferase
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 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ATP dose response on 96-well was measured using luciferase. The linear luminescence signal for ATP concentration from 10  $\mu$ M to 0.1 nM was detected up to 5 hr ( $Z'$  factor=0.7).



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