

# Luciferase

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## Fire Fly, Recombinant, His-tagged

Expressed in *E. coli*

Cat. No. CRP0850

Lot. No. (See product label)

### PRODUCT INFORMATION

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**Description:** Luciferases are enzymes that emit light. A diverse group of organisms use luciferase-mediated bioluminescence to startle predators or to attract prey or mates. The luciferase from the North American fire fly releases green light during the oxidation of its chemical substrate, luciferin. Recombinant luciferase is expressed in *E. coli*.

**M. W. :** 64,000 Da

**Recombinant:** Expressed in *E. coli*

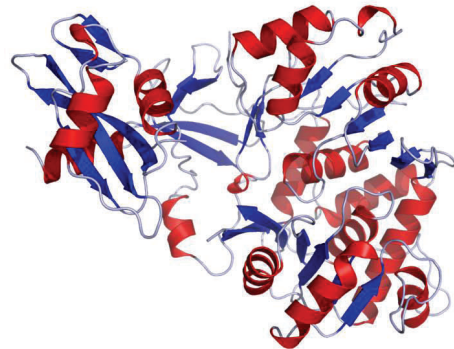
**Purity:** >95% as determined by SDS-PAGE.

### REFERENCES

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1. Wood K.V, Deluca M, et al. Firefly luciferase gene: structure and expression in mammalian cells. *Mol. Cell. Biol.* 1987; 7:725-737.
2. Conti E, Franks N.P, et al. Crystal structure of firefly luciferase throws light on a superfamily of adenylate-forming enzymes. *Structure*, 1996; 4: 287– 298.
3. Keller G.A, Gould S, et al. Firefly luciferase is targeted to peroxisomes in mammalian cells. *Proc. Natl. Acad. Sci.* 1987; 84: 3264-3268.

**FOR RESEARCH USE ONLY**



Crystal structure of *Photinus pyralis* firefly luciferase.

### GENE INFORMATION

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**Gene Name:** [luciferase](#)

**Synonyms:** C25G6.3; EC [1.13.12.7](#)

**Gene Type:** protein coding

**mRNA Refseq:** [NM\\_075830.2](#)

**Protein Refseq:** [NP\\_508231.2](#)

**GenID:** [182919](#)

**Uniprot ID:** [P08659](#)

**Chromosome Location:** X (elegans)