

## Product datasheet for **AR09638PU-L**

### Luciferase (1-550, His-tag) Photinus Pyr. Protein

#### Product data:

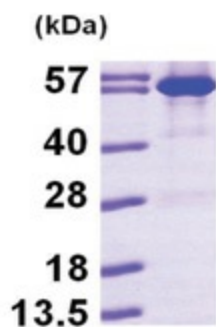
Product Type:	Recombinant Proteins
Description:	Luciferase (1-550, His-tag) photinus pyr. recombinant protein, 0.5 mg
Species:	Photinus Pyr.
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>M</u> MEDAKNIKK GPAPFYLED GTAGEQLHKA MKRYALVPGT IAFTDAHIEV NITYAEYFEM SVRLAEAMKR YGLNTNHRIV VCSENSLQFF MPVLGALFIG VAVAPANDIY NERELLSMN ISQPTVVFVS KKGLQKILNV QKKLPPIQKI IIMDSKTDYQ GFQSMYTFVT SHLPPGFNEY DFVPESFDRD KTIALIMNSS GSTGLPKGVA LPHRTACVRF SHARDPIFGN QIIPDTAILS VVPFHGFGM FTLGYLICG FRVLMYRFE EELFLRSLQD YKIQSALLVP TLFSSFAKST LIDKYDLSNL HEIASGGAPL SKEVGEAVAK RFHLPGIRQG YGLTETTSAI LITPEGDDKP GAVGKVVFF EAKVVDLDTG KTLGVNQRGE LCVRGPMIMS GYVNNPEATN ALIDKDGWLH SGDLAYWDED EHHFIVDRLK SLIKYKGYQV APAELESILL QHPNIFDAGV AGLPDDDDAGE LPAAVVLEH GKTMTEKEIV DYVASQVTTA KKLRRGGVWFV DEVPKGLTGK LDARKIREIL IKAKKGGKSK L
Tag:	His-tag
Predicted MW:	63 kDa
Concentration:	lot specific
Purity:	>90% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant firefly Luciferase, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**Summary:**

Luciferase is a generic term for the class of oxidative enzymes used in bioluminescence and is distinct from a photoprotein. Luciferase catalyzes a bioluminescent reaction which requires the substrate luciferin as well as  $Mg^{2+}$  and ATP, produces green light with a wavelength of 562 nm. Luciferase from firefly is widely used as a reporter for studying gene regulation and function, and for pharmaceutical screening.

**Product images:**

15% SDS-PAGE (3ug)