

## Recombinant Renilla reniformis GFP Protein, C-Avi tagged

**Cat. No.** GFP-23RB    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Green Fluorescent Protein of Renilla reniformis was genetically engineered to be produced in E. coli and to contain the Avitag peptide sequence (GLNDIFEAQKIEWHE). The Avitag peptide has been efficiently biotinylated by the E.coli enzyme, biotin ligase. Biotin ligase covalently attaches 1 biotin molecule to the lysine within Avitag.

**Species**      Renilla reniformis

**Source**      E.coli

**Description**      The Green Fluorescent Protein of Renilla reniformis has a diverse range of uses in cell biology, drug discovery, biomedical research, high throughput screening (HTS) and fluorescence activated cell sorting (FACS). Fluorescent proteins expressed in living cells (e.g. fungi, bacteria, animals and plants) can be used to study molecular processes in real time such as dynamics of nuclear division, protein trafficking, etc. GFPs can also be used for the dynamic monitoring of protein interactions using FRET or BRET technologies.

**Conjugation/Label**      Biotin

**Bio-activity**      Ratio 495nm/280nm = 3.7. Fluorescence measurements are dependent on individual fluorometer and must be determined by the user.

**Molecular Mass**      29,525 daltons

 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

<b>Purity</b>	> 98% by Coomassie staining.
<b>Storage</b>	The enzyme arrives on dry ice (or, in some cases, ice bricks) and should be immediately stored at -80 centigrade. Protein can be quickly thawed and placed at 4 centigrade. Avoid repeated freezing and thawing of protein.
<b>Concentration</b>	2.0 mg/mL by A280.
<b>Storage Buffer</b>	10mM Na <sub>2</sub> HPO <sub>4</sub> , 140mM NaCl, 2mM KH <sub>2</sub> PO <sub>4</sub> , 3mM KCl, 20% glycerol pH 7.6.

## GENE INFORMATION

<b>Official Symbol</b>	GFP
<b>Synonyms</b>	GFP; Green Fluorescent Protein

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