

## rGFP

**Description:**rGFP Aequorea victoria produced in E.Coli is a single, non-glycosylated polypeptide chain containing 238 amino acids (1-238 a.a.) and having a molecular mass of 26.8 kDa.rGFP is purified by proprietary chromatographic techniques.

**Catalog #:**PRPS-694

**Synonyms:**Green fluorescent protein, GFP.

For research use only.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered yellowish solution.

**Amino Acid Sequence:**MSKGEELFTG VVPILVELDG DVNGHKFSVS GEGEGDATYG  
KLTLKFICTT GKLPVPWPTL VTTFSYGVQC FSRYPDHMKQ HDEFFKSAMPEGYVQERTIFF  
KDDGNYKTRA EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG  
IKVNFKIRHN IEDGSVQLADHYQQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV  
LEFVTAAGIT HGMD

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The Green Fluorescent Protein solution contains 20mM Tris-HCl, pH-8 and 10% Glycerol.

### Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

rGFP, also known as Green Fluorescent Protein, is a protein produced by the jellyfish (Aequorea Victoria) that produces bioluminescence in the green zone of the noticeable spectrum. Green Fluorescent Protein is a useful and ubiquitous instrument for producing chimeric proteins, where it functions as a fluorescent protein tag. rGFP is expressed in most known cell types and is used as a noninvasive fluorescent marker in living cells and organisms. Green Fluorescent Protein permits a broad range of applications where it has functioned as a cell lineage tracer, reporter of gene expression, or as a measure of protein-protein interactions.

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