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Recombinant Green Fluorescent Protein

CLPRO687
CLPRO687-2
CLPRO687-3

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.

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.

Synonyms: Green fluorescent protein, GFP.

Source: *Escherichia coli*.

Presentation: 10 µg (**CLPRO687**), 50 µg (**CLPRO687-2**), or 1 mg (**CLPRO687-3**), sterile filtered yellowish solution. The Green Fluorescent Protein solution (1mg/ml) 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.

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

Amino Acid Sequence: MSKGEELFTG VVPILVELDG DVNGHKFSVS GEGEGDATYG KLTLKFICTT
GKLPVPWPTL VTTFSGYGVQC FSRYPDHMKQ HDFSAMPEGYVQERTIFF KDDGNYKTRA
EVKFEGDTLV NRIELKGIDF KEDGNILGHK LEYNYNSHNV YIMADKQKNG IKVNFKIRHN
IEDGSVQLAD HYQNTPIGD GPVLLPDNHY LSTQSALSKD PNEKRDHMLV LEFVTAAGIT HGMDELYK.

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MW 07/30/19

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