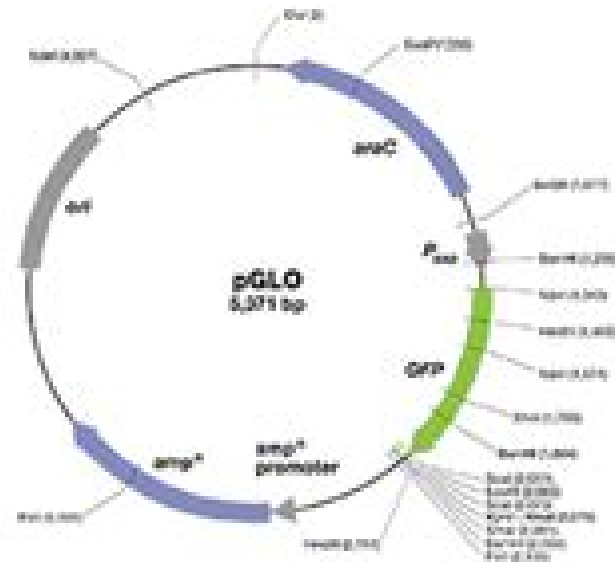


# pGLO Plasmid

[Download pGLO Map and Sequence \(PDF\)](#)

[Download pGLO Sequence \(.txt\)](#)



Bio-Rad's pGLO plasmid contains DNA sequences that enable its replication and expression of the fluorescent trait (phenotype) in bacteria following transformation. The essential sequences include the following:

- **GFP** – jellyfish gene that encodes green fluorescent protein (GFP)
- **ori** – origin of pGLO plasmid DNA replication (essential for making more copies of the plasmid)
- **bla** – gene that encodes  $\beta$ -lactamase, an enzyme that breaks down the antibiotic ampicillin; transformants expressing the **bla** gene can be selected by placing ampicillin in the growth medium
- **pBAD promoter** – binds AraC-arabinose and promotes RNA polymerase binding and transcription of the **GFP** gene
- **araC** – gene that encodes the regulatory protein that binds to the pBAD promoter; only when arabinose binds to the AraC protein is the production of GFP switched on
- **Multiple cloning site** – a region containing restriction sites (NotI, HindIII, EcoRI, etc.), sequences that permit the insertion or deletion of a gene of interest

Bacteria transformed with the pGLO plasmid are selected by ampicillin resistance and when induced to express GFP, they glow fluorescent green under UV light!

# Plasmid P Ceneo Manual

**Jiyuan Zhang**



## **Plasmid P Ceneo Manual:**

## **Plasmid P Ceneo Manual** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Plasmid P Ceneo Manual**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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