



Gene to Protein Pvt. Ltd.

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800 GENOME, 800 GENETIC



pcDNA3.1 Plasmid DNA

Cat # P07

Pack Size: 5 µg

Storage: -20°C.

It is stable for at least 6 months under these storage conditions. Avoid repeated freeze-thaw cycles.

Kit content:

| S.No | Plasmid | Concentration |
|------|----------|---------------------|
| 1 | pcDNA3.1 | 5µg (50µL-100ng/µl) |

Introduction

The pcDNA3.1 Plasmid DNA is a high-quality preparation of the pcDNA3.1 expression vector. This vector is designed for high-level expression of cloned genes in mammalian cells. It contains the CMV promoter for constitutive expression, the neomycin resistance gene for selection in mammalian cells, and the SV40 polyadenylation signal for mRNA stability. The plasmid DNA is provided in a sterile, Tris-EDTA (TE) buffer and is ready for immediate use in transfection experiments.

Features

- High-quality preparation of the pcDNA3.1 expression vector
- Designed for high-level expression of cloned genes in mammalian cells
- Contains the CMV promoter for constitutive expression
- Contains the neomycin resistance gene for selection in mammalian cells. Additionally it has Ampicillin resistant gene.
- Contains the SV40 polyadenylation signal for mRNA stability
- Provided in a sterile, endotoxin-free Tris-EDTA (TE) buffer
- Ready for immediate use in transfection experiments

Applications

- High-level expression of cloned genes in mammalian cells
- Transient and stable transfection experiments

Quality Control

The quality of the pcDNA3.1 plasmid DNA is tested on a lot-to-lot basis to ensure consistent product quality. The plasmid DNA is analyzed by agarose gel electrophoresis and quantified by Nanodrop.

Protocol for pcDNA3.1 Plasmid DNA upon Arrival

1. Upon receipt of the pcDNA3.1 Plasmid DNA, immediately store it at -20°C to -80°C to maintain its stability.
2. Thaw the DNA on ice or at room temperature, but avoid repeated freeze-thaw cycles to prevent damage to the DNA.
3. Before use, gently vortex the DNA to ensure it is fully resuspended.
4. Verify the concentration and purity of the DNA by spectrophotometry and/or gel electrophoresis before use.
5. Use sterile techniques and proper biosafety precautions when handling the DNA to avoid contamination or exposure to hazardous materials.
6. Store any unused DNA at -20°C to -80°C for future use.

Note

- This product is for research use only and is not intended for human or animal diagnostic or therapeutic uses.
- Handling of plasmid DNA should be performed in a manner consistent with biosafety level 1 or 2 guidelines, as appropriate.
- The price of pcDNA3.1 Plasmid DNA is solely for the maintenance and distribution of the plasmid for research purposes only. Gene to protein Pvt. Ltd does not sell or make any profit from the use of this product.

