



Gene to Protein Pvt. Ltd.

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800 GENOME, 800 GENETIC



pBluescript Plasmid DNA

Cat # P09

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	pBluescript	5µg (50µL-100ng/µl)

Introduction

pBluescript Plasmid DNA is a versatile and widely used cloning vector in molecular biology research. It is a high copy number plasmid that contains several useful features for molecular cloning, including a multiple cloning site (MCS), a lacZ alpha peptide for blue/white screening, and the T7 and T3 RNA polymerase promoters for in vitro transcription.

Features

- High copy number plasmid for efficient amplification of target DNA
- Multiple cloning site (MCS) for easy cloning of target genes
- lacZ alpha peptide for blue/white screening of positive clones
- T7 and T3 RNA polymerase promoters for in vitro transcription
- Ampicillin resistance gene for selection in *E. coli*

Applications

- Cloning and expression of target genes in *E. coli*
- Construction of recombinant DNA libraries
- Subcloning of DNA fragments
- Site-directed mutagenesis
- In vitro transcription of target genes

Quality Control

The quality of the pBluescript 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 pBluescript Plasmid DNA upon Arrival

1. Upon receipt of the pBluescript 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 pBluescript 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.

