

pPIC9K Plasmid DNA

Cat # P08

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	pPIC9K	5µg (50µL-100ng/µl)

Introduction

pPIC9K Plasmid DNA, a powerful tool for molecular biology research. pPIC9K Plasmid DNA is a versatile vector that allows for the efficient expression of recombinant proteins in a variety of host cells, including yeast and mammalian cells. It is used for methanol-inducible expression of secreted proteins in *Pichia pastoris*. This versatile vector allows for both stable and transient expression studies in yeast cells.

Features

- Contains the AOX1 promoter for high-level expression of target genes
- Includes a variety of selectable markers for easy screening and selection of positive clones
- Compact size for efficient transformation into host cells and easy handling in the lab
- Contains the Ampicillin and Kanamycin resistance gene for selection.
- Compatible with a wide range of host cells, including yeast and mammalian cells

Applications

- Gene cloning and expression of recombinant proteins in a variety of host cells
- This vector allows for both stable and transient expression studies in yeast cells.
- Drug discovery and development, including high-throughput screening and functional genomics
- Biotechnology applications, such as the production of enzymes, vaccines, and antibodies
- Basic research in molecular biology and genetics

Quality Control

The quality of the pPIC9K 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 pPIC9K Plasmid DNA upon Arrival

1. Upon receipt of the pPIC9K 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 pPIC9K 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.

