pPIC9K

Vector ID	V010245
Antibiotic Resistance	Ampicillin
Length	9268 bp
Vector Type	Yeast Plasmids

Product Information

Replication Origin	ori
Source/Author	Invitrogen (Life Technologies)
Copy Number	High copy number
Promoter	AOX1
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The pPIC9K vector is designed for expression in Pichia pastoris. It features a strong AOX1 promoter for high-level expression. This vector also has an alpha-factor secretion signal, which can direct the secretion of target proteins. pPIC9K offers several advantages, such as efficient protein production, post-translational modifications similar to mammalian cells, and the ability to scale up production. It is ideal for expressing large amounts of recombinant proteins, especially those that require proper folding and modifications.

Vector Map



Plasmid Resuspension Protocol

1. Centrifuge at 5,000×g for 5 min.
2. Carefully open the tube and add sterile water to dissolve the DNA: add 20 µl for 5 µg plasmid, and 100 µl for 100 µg plasmid.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin to concentrate the liquid at the bottom. Speed is less than 5000×g.
5. Store the plasmid at -20 ℃.