pGAPZα A

Vector ID	V010273
Antibiotic Resistance	Zeocin
Length	3149 bp
Vector Type	Yeast Plasmids
Host	Yeast

Product Information

Replication Origin	ori
Source/Author	Invitrogen (Life Technologies)
Copy Number	High copy number
Promoter	GAP
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The pGAPZα A vector is designed for expression in Pichia pastoris under the control of the constitutive GAP promoter. This vector features a Zeocin resistance marker for easy selection of transformed cells. One of its key characteristics is the ability to produce high levels of recombinant proteins without the need for induction. pGAPZα A offers several advantages, such as consistent expression, reduced production costs due to the lack of inducer requirements, and suitability for large-scale production. It is ideal for expressing proteins that need continuous production or when rapid expression is desired without the complexity of induction. Additionally, it can be easily manipulated for cloning and downstream processing.

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 ℃.