pYD1

Summary

Vector backbone	pYD1
Vector type	Yeast Expression
Vector length	5009 bp
Tag	V5 tag/6xHis (C terminal on backbone)
Promoter	GAL1
Resistance	Amp+

Description

pYD1 is a fusion vector requiring that researchers can clone the gene of interest in frame with the AGA2 gene and the C-terminal V5 epitope/polyhistidine tag (optional). For proper expression, first determine if any restriction sites are appropriate to preserve the reading frame at BOTH the 5′ and the 3′ ends. It may be necessary to PCR your gene product to create a fragment with the appropriate restriction sites to clone in frame at both ends. Carefully inspect your gene and the multiple cloning site before cloning your gene of interest.

Background

Yeast display antibody library technology is one of the most prominent research advances in the field of antibody engineering in recent years. This technology mainly displays antibody molecules on the surface of yeast cells, uses target antigen molecules to screen yeast cells expressing specific antibody molecules, and uses genetic engineering methods to express and subsequently identify the functions of antibodies, thereby obtaining functional molecules.