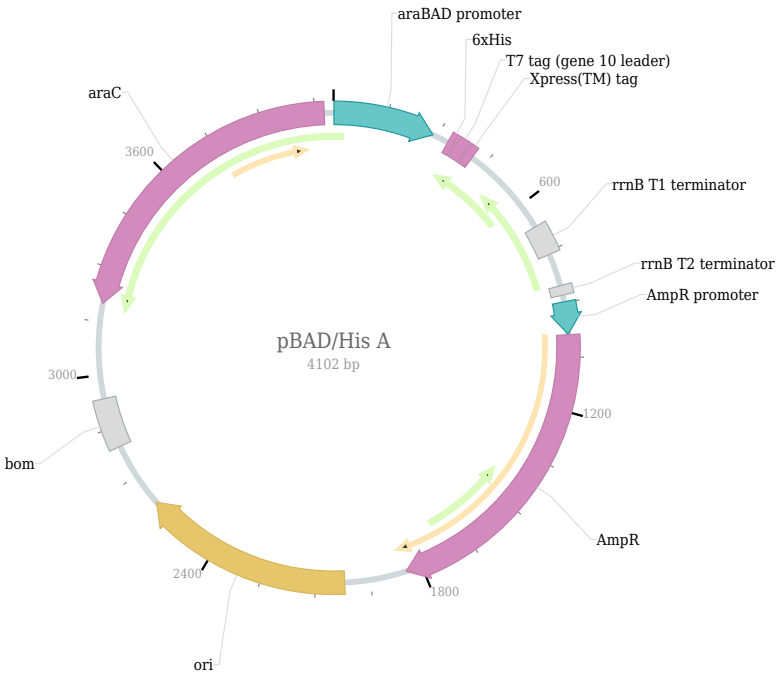
pBAD/His A

Vector ID	V011896
Antibiotic Resistance	Ampicillin
Length	4102 bp
Vector Type	E. coli Expression Vectors

Product Information

Replication Origin	ori
Copy Number	High copy number
Promoter	araBAD
Cloning Method	Enzyme digestion and ligation
5' Primer	pBAD-F: ATGCCATAGCATTTTTATCC
3' Primer	pBAD-R: gatttaatctgtatcagg
Fusion Tag	N-His, N-EK
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The pBAD/His A plasmid vector is an E. coli expression vector designed for the tightly regulated, dose-dependent expression of recombinant proteins. It utilizes the arabinose-inducible araBAD promoter (pBAD), which allows precise control of gene expression by varying the concentration of L-arabinose. The vector adds an N-terminal polyhistidine (6xHis) tag and an Xpress epitope to the expressed protein, facilitating purification and detection. It carries an ampicillin resistance gene for selection and is supplied in different versions (A, B, C) to accommodate cloning of genes in various reading frames.

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 ℃.