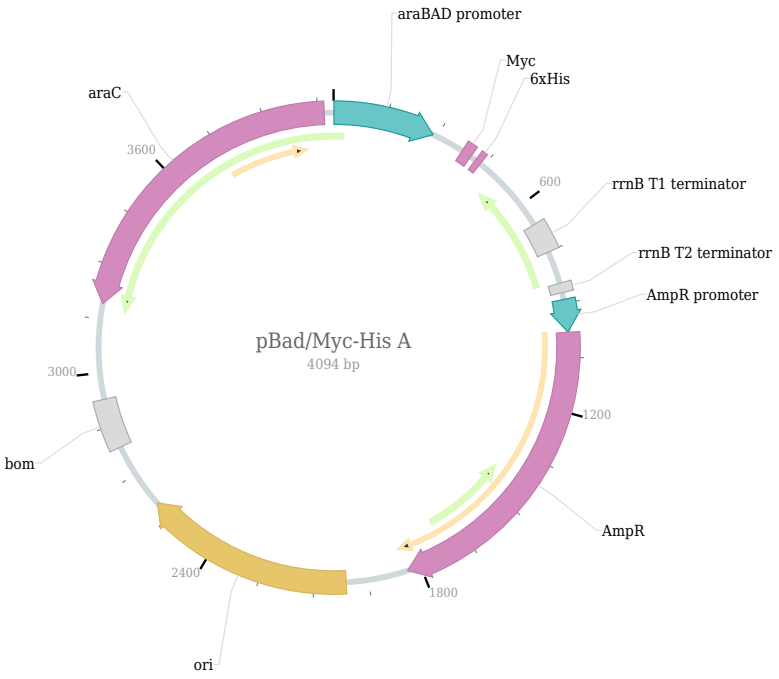
pBad/Myc-His A

Vector ID	V012544
Antibiotic Resistance	Ampicillin
Length	4094 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	C-His, C-Myc
Growth Strain(s)	TOP10
Comment	The pBAD/His A vector is an arabinose-regulated expression system designed for controlled gene expression in E. coli. In the absence of glucose, arabinose acts as an inducer, activating the araBAD promoter and driving transcription of the target gene. By titrating arabinose concentrations, users can optimize the soluble expression of recombinant proteins. Vectors pBAD/His A, B, and C are identical except for their reading frames, allowing seamless cloning of genes in the correct translational frame for fusion with an N-terminal His-tag.

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 ℃.