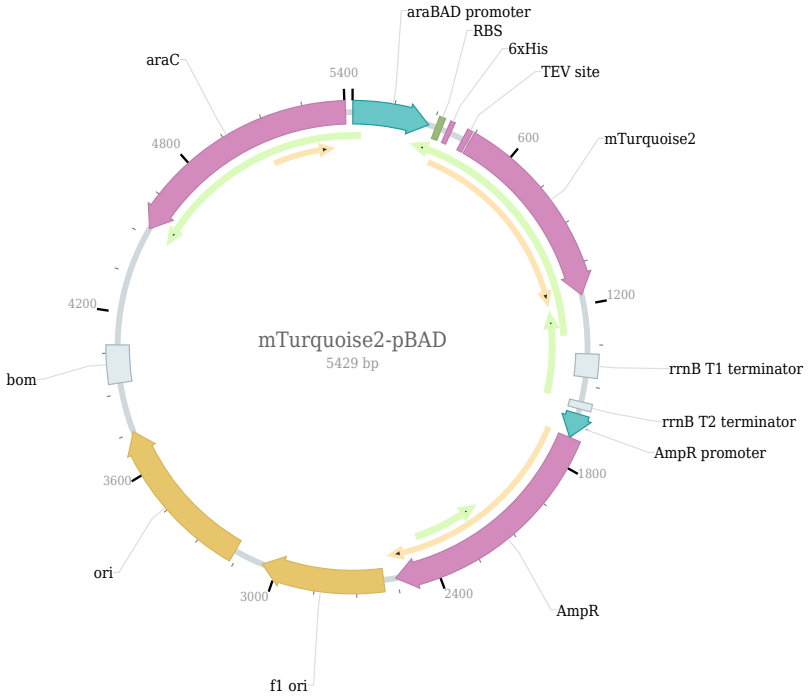
mTurquoise2-pBAD

Vector ID	V013125
Antibiotic Resistance	Ampicillin
Length	5429 bp
Vector Type	Protein expression
Host	E. coli

Product Information

Replication Origin	ori
Source/Author	Michael Davidson Lab
Copy Number	High copy number
Promoter	araBAD
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	The mTurquoise2-pBAD is a specialized plasmid vector designed for tightly regulated expression of the mTurquoise2 fluorescent protein in bacteria. It utilizes the arabinose-inducible pBAD promoter system, allowing precise control of gene expression through arabinose concentration. This vector is particularly valuable for fluorescence-based imaging and FRET studies, as mTurquoise2 is a bright, photostable cyan fluorescent protein that serves as an excellent FRET donor.

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 ℃.