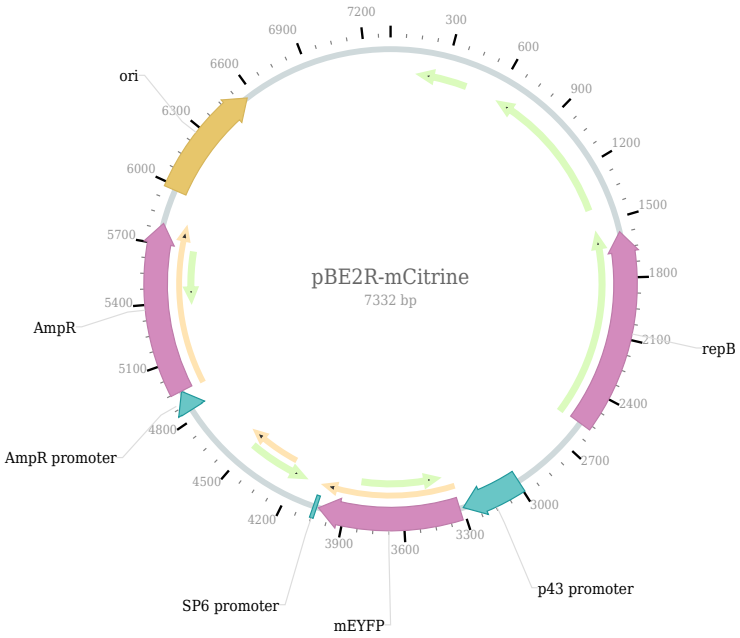
pBE2R-mCitrine

Vector ID	V015253
Antibiotic Resistance	Ampicillin
Length	7332 bp
Vector Type	Protein expression, Secretory expression
Host	Bacillus subtilis

Product Information

Replication Origin	ori
Selection Marker	Kan
Promoter	p43
Growth Strain(s)	DH10B
Growth Temperature	30℃
Comment	pBE2R-mCitrine is a shuttle vector based on the pBE2R backbone, which functions in both E. coli and Bacillus subtilis. It encodes the mCitrine yellow fluorescent protein under the control of the strong constitutive P43 promoter, with signal peptides for alkaline albumin enzyme to facilitate protein secretion in B. subtilis. The vector carries an ampicillin resistance gene for selection in E. coli, making it a useful tool for studying protein expression, secretion, and localization in Bacillus subtilis using fluorescence-based detection.

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 ℃.