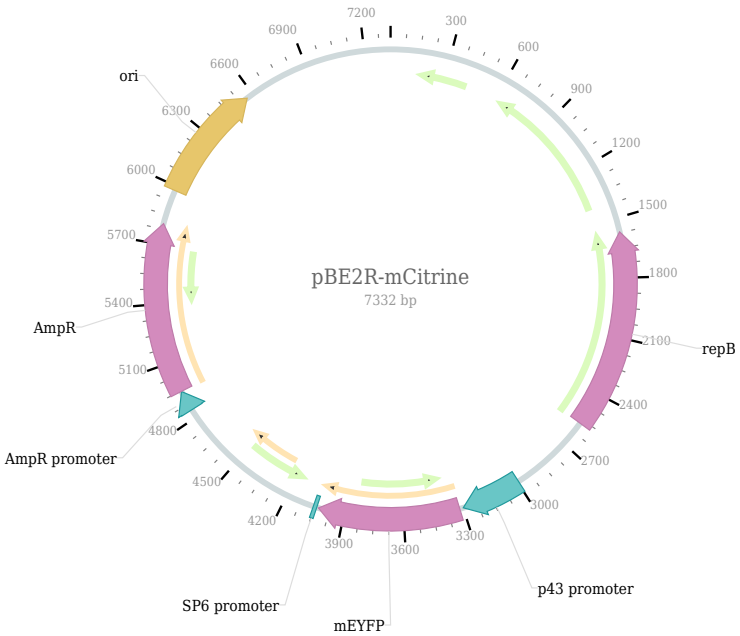
pBE2R-mCitrine

载体编号 Vector ID	V015253
抗性 Antibiotic Resistance	Ampicillin
长度 Length	7332 bp
载体类型 Vector Type	Protein expression, Secretory expression
宿主 Host	Bacillus subtilis

产品信息

复制子 Replication Origin	ori
筛选标记 Selection Marker	Kan
启动子 Promoter	p43
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	30℃
备注 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.

质粒图谱



复溶方法

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 ℃.