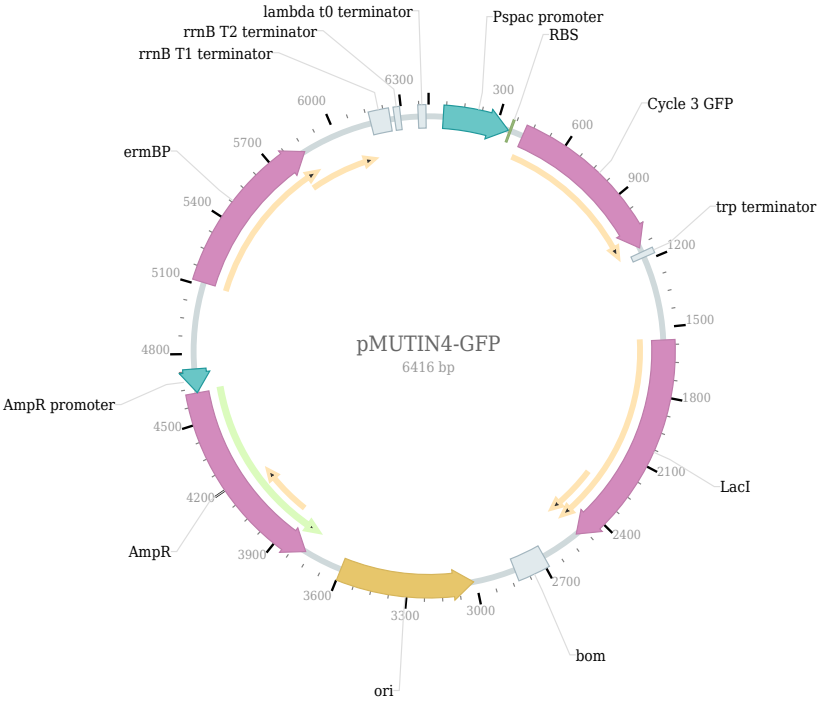
pMUTIN4-GFP

Vector ID	V013029
Antibiotic Resistance	Ampicillin
Length	6416 bp
Vector Type	Protein expression
Host	Bacillus subtilis

Product Information

Replication Origin	ori
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pMUTIN4-GFP is a Bacillus subtilis integrative vector (pMUTIN4 backbone with GFP replacing lacZ). Single-crossover integration disrupts target genes and places downstream genes under the IPTG-inducible Pspac promoter, enabling gene essentiality analysis and real-time promoter activity monitoring via GFP fluorescence (Vagner et al. 1998).

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 ℃.