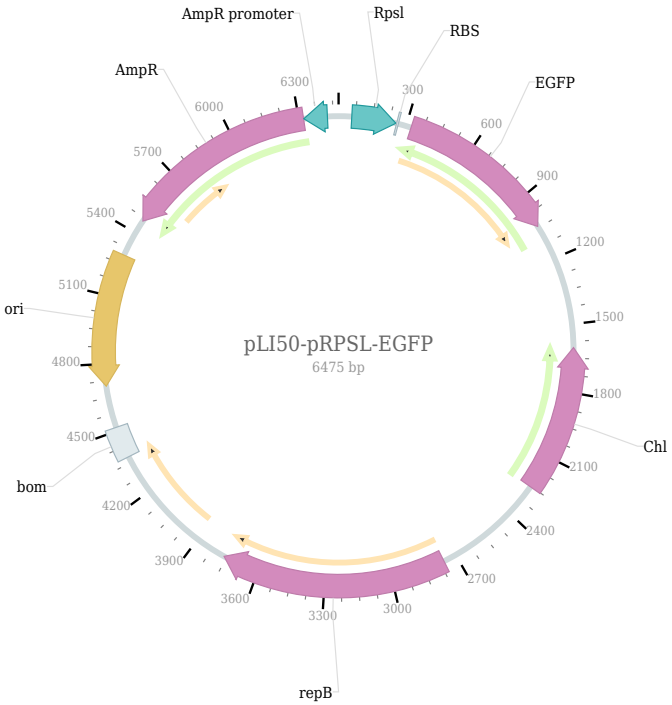
pLI50-pRPSL-EGFP

Vector ID	V047707
Antibiotic Resistance	Ampicillin
Length	6475 bp
Vector Type	Protein expression
Host	Staphylococcus aureus

Product Information

Replication Origin	ori
Selection Marker	Chl
Copy Number	Low copy number
Promoter	Rpsl
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pLI50-pRPSL-EGFP is an E. coli–Staphylococcus aureus shuttle vector derived from pLI50. The constitutive RpsL promoter (ribosomal protein S12 gene promoter) drives EGFP, enabling fluorescence-based monitoring of gene expression in staphylococci. It carries AmpR (bla) with a ColE1/pUC ori for E. coli, chloramphenicol resistance (cat) for S. aureus selection, a repB replicon, and bom for mobilization. The low-copy vector is used for protein localization and gain-of-function studies in Gram-positive cocci.

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 ℃.