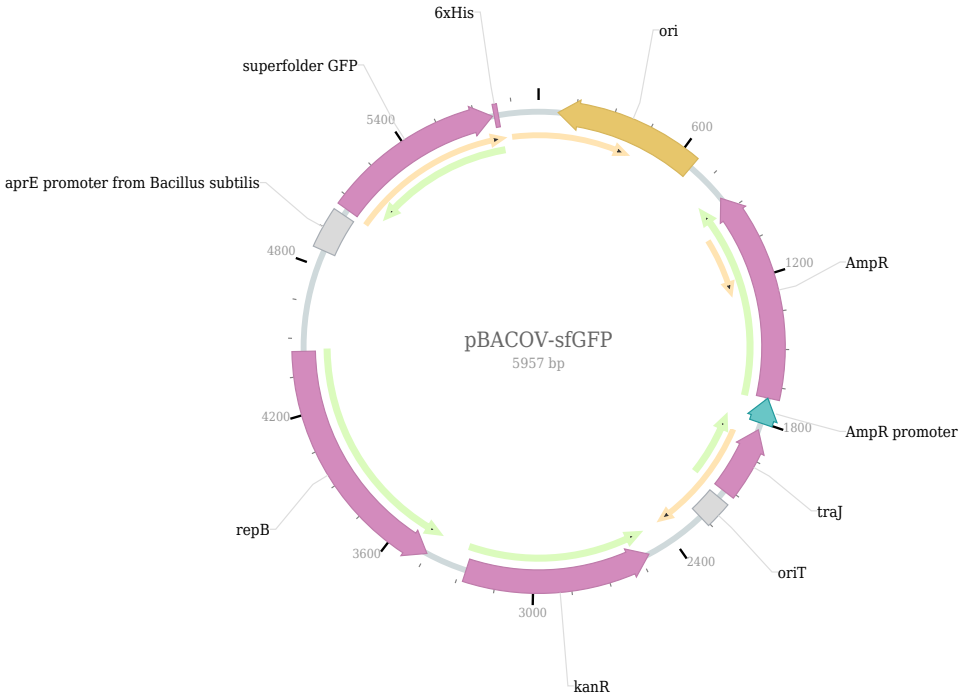
pBACOV-sfGFP

Vector ID	V009318
Antibiotic Resistance	Ampicillin, Kanamycin
Length	5957 bp
Vector Type	Shuttle vector

Product Information

Replication Origin	ori
Source/Author	Heinze S, Kornberger P, Graetz C, Schwarz WH, Zverlov VV, Liebl W.
Copy Number	High copy number
Growth Strain(s)	DH10B
Growth Temperature	37℃
Comment	pBACOV-sfGFP is a reporter derivative of the broad-host-range E. coli–Bacillus shuttle vector pBACOV (GenBank MG599121.1). The sfGFP gene was Gibson-assembled between MluI and XbaI, replacing the aprE signal peptide, so sfGFP-His6 is expressed intracellularly under the B. subtilis PaprE promoter. It retains the ColE1 and pUB origins, AmpR/KanR markers and RK2 oriT/traJ for conjugative "transmating". Fluorescent in 8 of 9 host species tested, strongest in B. mojavensis.

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 ℃.