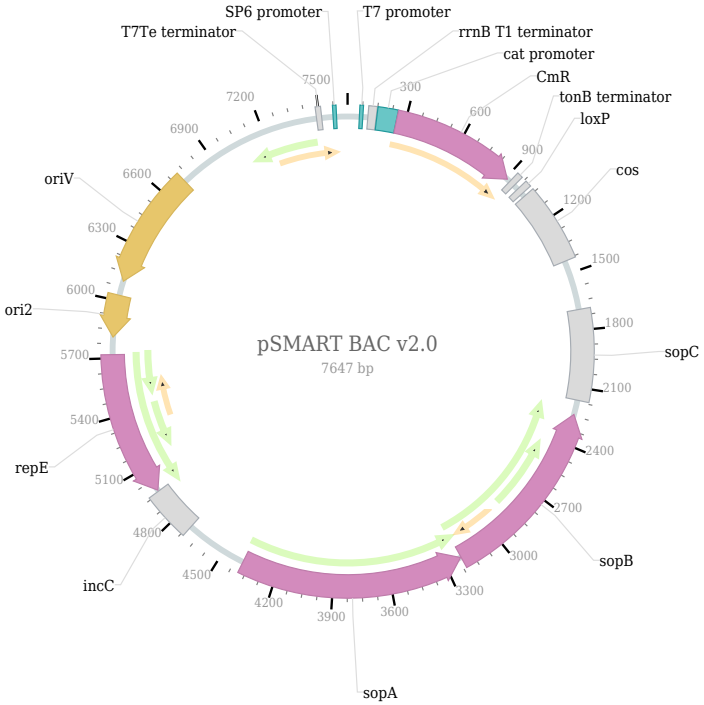
pSMART BAC v2.0

Vector ID	V012408
Antibiotic Resistance	Chloramphenicol
Length	7647 bp
Vector Type	Cloning Vectors

Product Information

Replication Origin	ori2
Source/Author	Lucigen
Copy Number	Low copy number
Growth Temperature	37℃
Comment	pSMART BAC v2.0 is a bacterial artificial chromosome (BAC) vector with an inducible copy number. It utilizes the single-copy origin of replication derived from the E. coli F plasmid (ori2, repE, incC) together with the F-plasmid partitioning system (sopA, sopB, sopC) to ensure stable maintenance of large or toxic inserts. The vector also carries an inducible origin of replication (oriV) that allows "on-command" copy number amplification, increasing DNA yields 20- to 50-fold.

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 ℃.