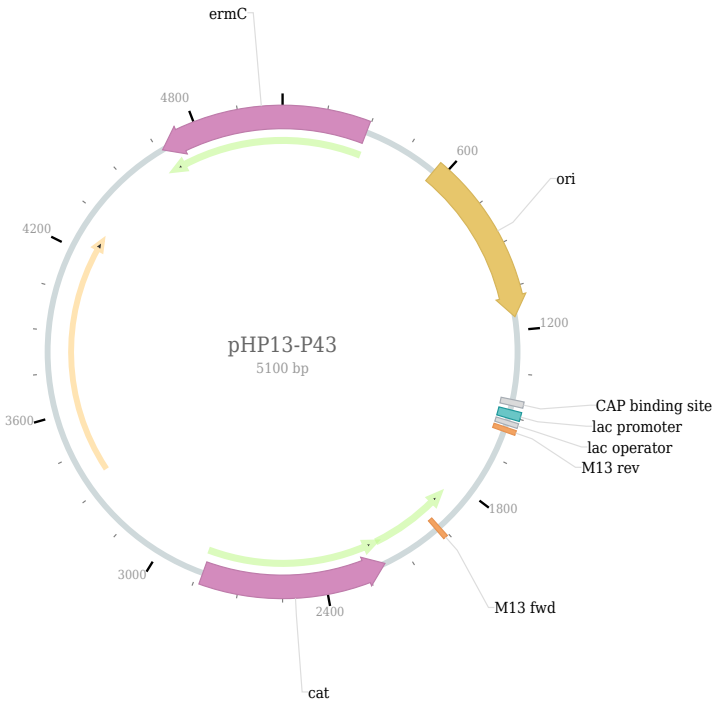
pHP13-P43

Vector ID	V012786
Antibiotic Resistance	Chloramphenicol
Length	5100 bp
Vector Type	B. subtilis Expression vector

Product Information

Replication Origin	ori
Copy Number	High copy number
Promoter	P43
Cloning Method	Enzyme Cut
Comment	Promoter 43 is a constitutive promoter that constitutively expresses the P43 protein in B.subtilis. This promoter has been shown to be recognized and active during the exponential and lag phases of growth. It has been hypothesized that the ability to recognize the promoter in exponential and lag phase of growth is due to the recognition of the promoter by both sigma factor 55 (the major sigma factor A) and sigma factor 37 (the lag phase sigma factor B) 1. The P43 promoter has been previously used for constitutive expression of exogenous genes within B.subtilis vectors 2. The context with which we used the promoter P43 is as a Polymerase Per Second (PoPS) generator.

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 ℃.