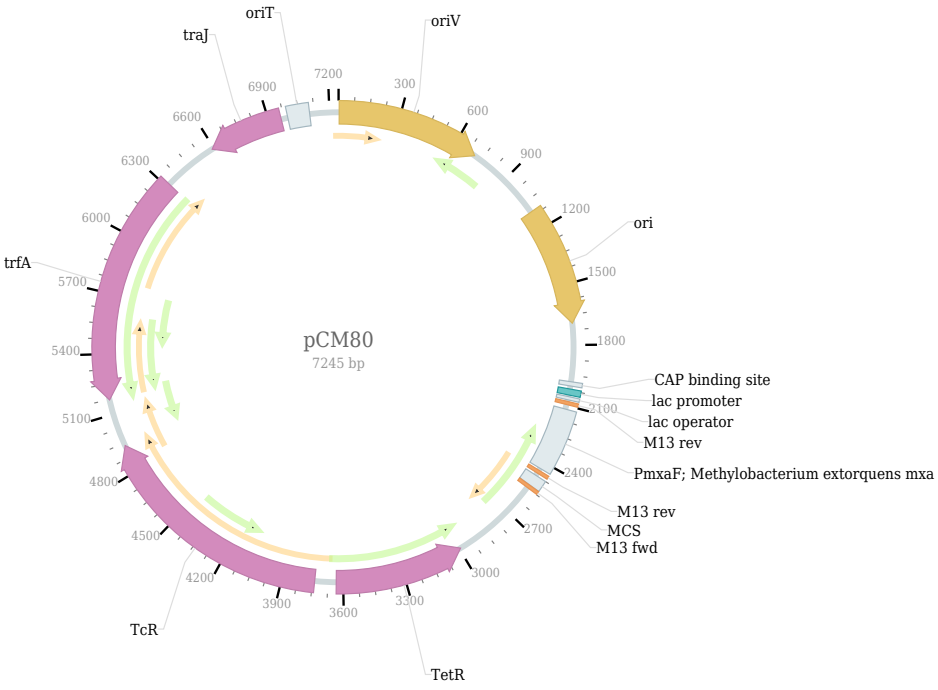
pCM80

Vector ID	V008430
Antibiotic Resistance	Tetracycline
Length	7245 bp
Vector Type	Cloning vector

Product Information

Replication Origin	oriV
Source/Author	Marx CJ, Lidstrom ME.
Growth Strain(s)	DH10B
Comment	This is a 7245 bp conjugative plasmid, pCM80, derived from Methylibacterium extorquens. It features the bacterial conjugation machinery, including traJ, oriTfor transfer, and the broad-host-range trfAgene for replication. The vector carries dual antibiotic resistance genes: kanamycin (TcR) and tetracycline (TetR). For cloning purposes, it includes a multiple cloning site (MCS) under the control of the lacpromoter, along with standard bacterial elements such as ori, lacoperator, and M13 priming sites.

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 ℃.