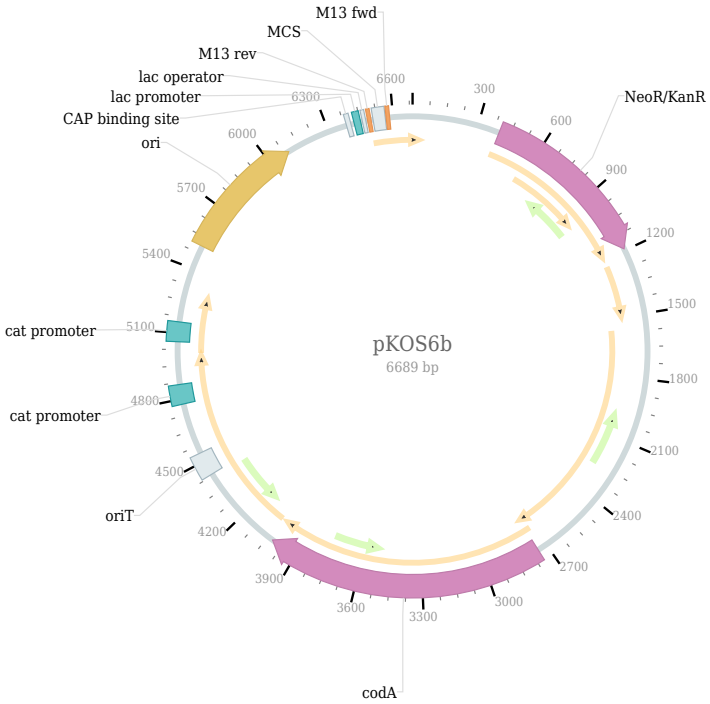
pKOS6b

Vector ID	V005198
Antibiotic Resistance	Kanamycin
Length	6689 bp
Vector Type	Cloning vector

Product Information

Replication Origin	ori
Source/Author	Kostner D, Peters B, Mientus M, Liebl W, Ehrenreich A.
Growth Strain(s)	DH10b
Growth Temperature	37℃
Comment	pKOS6b is a plasmid for markerless gene deletion (via codBA counter-selection with 5-FC) and chromosomal gene insertion (e.g., fluorescent reporters). It enables seamless genetic manipulation of cellulose synthase genes (bcsAB1/2/3) in K. hansenii, with kanamycin resistance and temperature-sensitive replication for plasmid curing.

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 ℃.