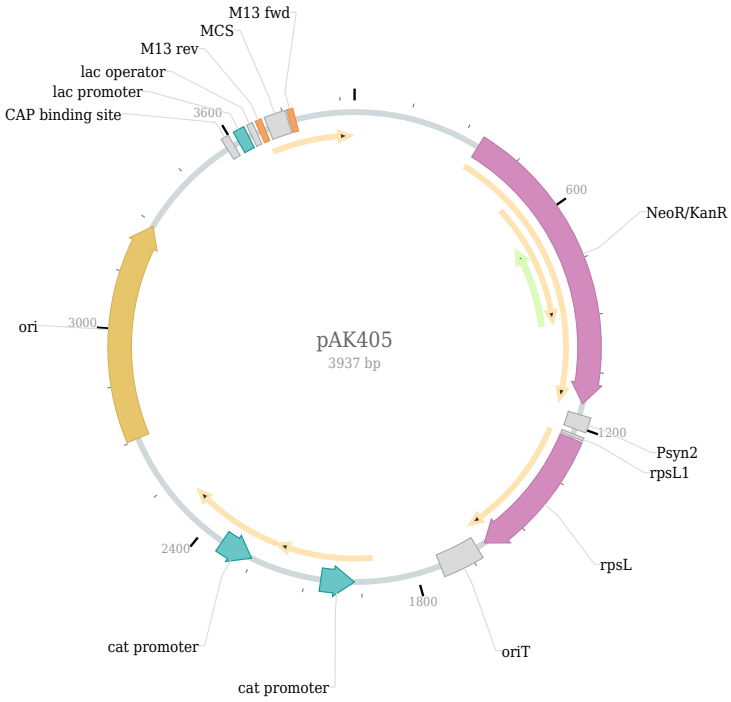
pAK405

载体编号 Vector ID	V009536
抗性 Antibiotic Resistance	Kanamycin
长度 Length	3937 bp
载体类型 Vector Type	Cloning vector

产品信息

复制子 Replication Origin	ori
来源 Source/Author	Kaczmarczyk A, Vorholt JA, Francez-Charlot A.
拷贝数 Copy Number	High copy number
培养菌株 Growth Strain(s)	DH10B
备注 Comment	pAK405, a suicide vector enabling markerless gene deletion in sphingomonads. It carries an RP4 oriT for conjugal transfer, kanamycin resistance for selection, and rpsL1 for streptomycin counterselection. Through successive allelic exchanges, target genes are cleanly deleted without leaving antibiotic markers, yielding unmarked mutants.

质粒图谱



复溶方法

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 ℃.