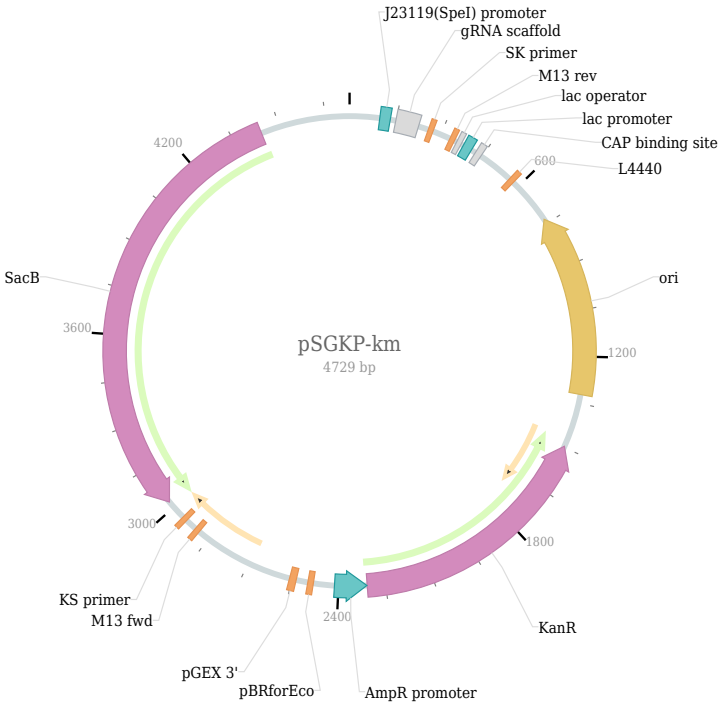
pSGKP-km

载体编号 Vector ID	V006674
抗性 Antibiotic Resistance	Kanamycin
长度 Length	4729 bp
载体类型 Vector Type	Bacterial Expression, CRISPR, Synthetic Biology

产品信息

复制子 Replication Origin	ori
拷贝数 Copy Number	High Copy
启动子 Promoter	J23119(SpeI)
克隆方法 Cloning Method	Gibson Cloning
培养菌株 Growth Strain(s)	Top10
培养温度 Growth Temperature	37℃
备注 Comment	The pSGKP-km is a 4,729 bp plasmid vector designed for CRISPR-Cas9-mediated genome editing in Klebsiella pneumoniae. It functions as an sgRNA expression plasmid within a two-plasmid system and features a high copy number origin of replication. Selection is achieved via a kanamycin resistance gene (50 μg/mL). The vector utilizes Gibson Assembly cloning and is specifically optimized for use in bacterial hosts like strain Top10 or DH5alpha at 37°C, enabling precise genetic manipulations.

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 ℃.