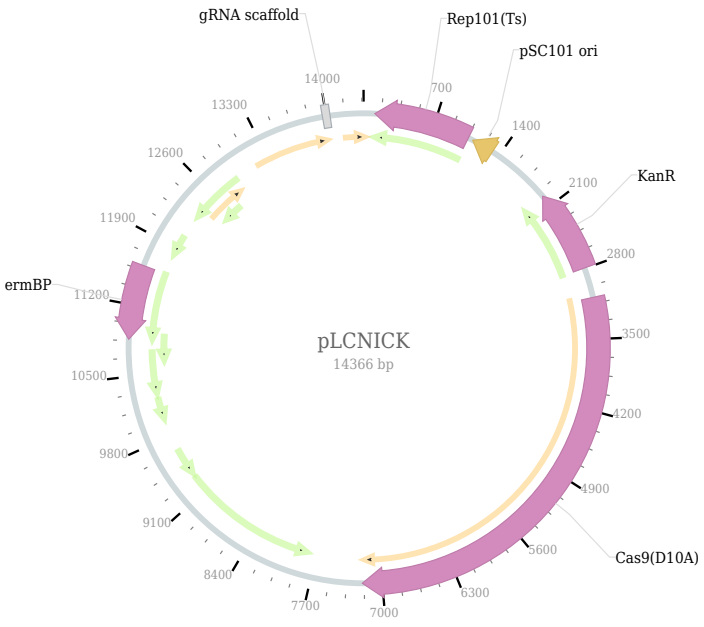
pLCNICK

载体编号 Vector ID	V014621
抗性 Antibiotic Resistance	Kanamycin
长度 Length	14366 bp
载体类型 Vector Type	Gene knockout
宿主 Host	Lactobacillus

产品信息

复制子 Replication Origin	pSC101 ori
拷贝数 Copy Number	Low Copy
培养菌株 Growth Strain(s)	Stbl3
培养温度 Growth Temperature	30℃
备注 Comment	The pLCNICK plasmid is a crucial tool for genome editing in Lactobacillus casei. Derived from the CRISPR-Cas9D10A nickase system, it enables rapid and precise genetic manipulations. Rep101(Ts) is a temperature-sensitive replication protein that functions only at low temperatures. Above 37°C, it becomes inactive, causing plasmid loss. Stable replication occurs at 30°C, >16 hours (or lower, e.g., 28–30°C). Please do not exceed 32°C.

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 ℃.