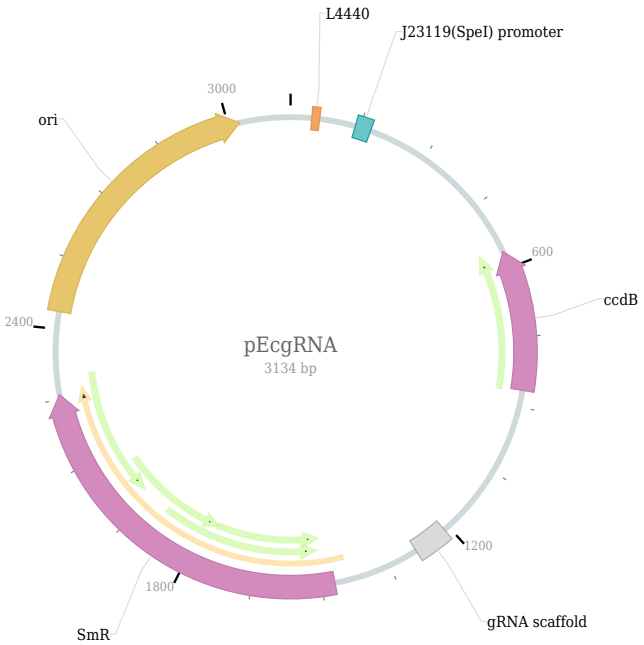
pEcgRNA

载体编号 Vector ID	V000012
抗性 Antibiotic Resistance	Spectinomycin
长度 Length	3134 bp
载体类型 Vector Type	Bacterial Expression

产品信息

复制子 Replication Origin	ori
来源 Source/Author	Sheng Yang
拷贝数 Copy Number	High Copy
启动子 Promoter	J23119(SpeI)
克隆方法 Cloning Method	Ligation Independent Cloning
培养菌株 Growth Strain(s)	DB3.1
培养温度 Growth Temperature	37℃
备注 Comment	pEcgRNA is a component of the pEcCas/pEcgRNA CRISPR-Cas9 system, a plasmid vector designed for genome editing in Escherichia coli. It serves as the sgRNA expression vector, containing a site for inserting a target-specific guide RNA (gRNA) sequence. The plasmid has a high-copy-number backbone derived from pTargetF, is approximately 3.1 kb in size, and carries a spectinomycin resistance gene (Spect+) for selection in bacteria. It is used in conjunction with the pEcCas plasmid to enable precise gene knock-out or knock-in editing in E. coliand other microorganisms.

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 ℃.