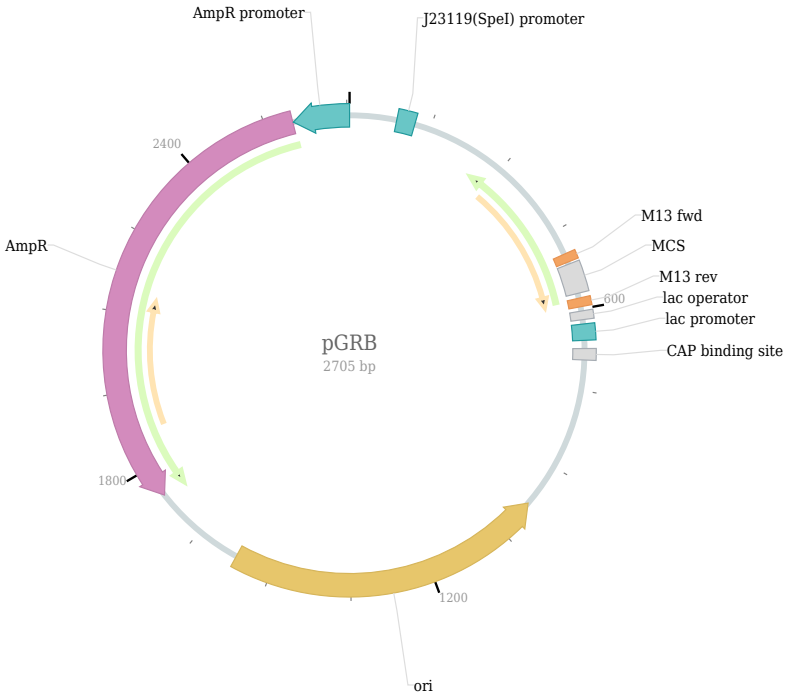
pGRB

载体编号 Vector ID	V017236
抗性 Antibiotic Resistance	Ampicillin
长度 Length	2705 bp
载体类型 Vector Type	Gene knockout
宿主 Host	E. coli

产品信息

复制子 Replication Origin	ori
启动子 Promoter	J23119(SpeI)
培养菌株 Growth Strain(s)	DH10B
培养温度 Growth Temperature	37℃
备注 Comment	pGRB is a high-copy gRNA expression backbone for E. coli CRISPR-Cas9 editing created in Tao Chen's lab. It uses constitutive promoter J23100 to drive gRNA transcription and carries ampicillin resistance marker bla for selection. Multiple targeting gRNAs can be assembled into pGRB in one Golden Gate reaction for multiplex genome modification. After editing, arabinose induction triggers Cas9 to cleave bla on pGRB, enabling simple plasmid curing for iterative editing cycles.

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 ℃.