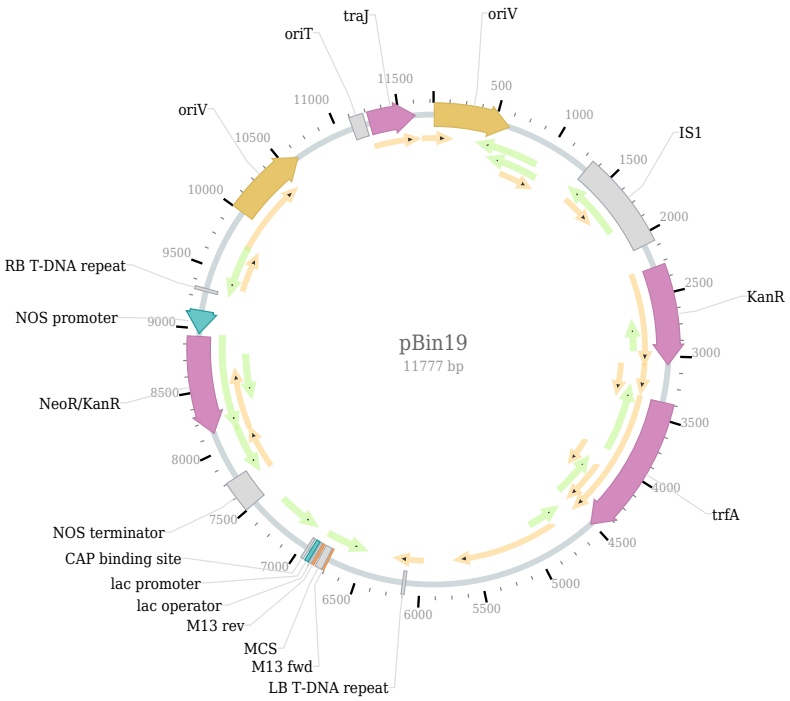
pBin19

载体编号 Vector ID	V010907
抗性 Antibiotic Resistance	Kanamycin
长度 Length	11777 bp
载体类型 Vector Type	Plant Vectors
宿主 Host	Plants

产品信息

复制子 Replication Origin	oriV
来源 Source/Author	Bevan M.
筛选标记 Selection Marker	Neomycin/G418(Geneticin)
拷贝数 Copy Number	High copy number
启动子 Promoter	NOS
5' 引物 5' Primer	M13 fwd
3' 引物 3' Primer	M13 rev
备注 Comment	pBin19 is a widely used binary vector for Agrobacterium-mediated plant transformation. It features left and right T-DNA borders flanking a cloning site and a kanamycin resistance gene (nptII) for selection in plants. The vector has an RK2 replication origin, allowing it to exist in 10-15 copies per Agrobacterium cell, which can enhance transformation efficiency. Its disarmed T-DNA region enables the insertion of foreign genes to create transgenic plants without causing crown gall disease.

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 ℃.