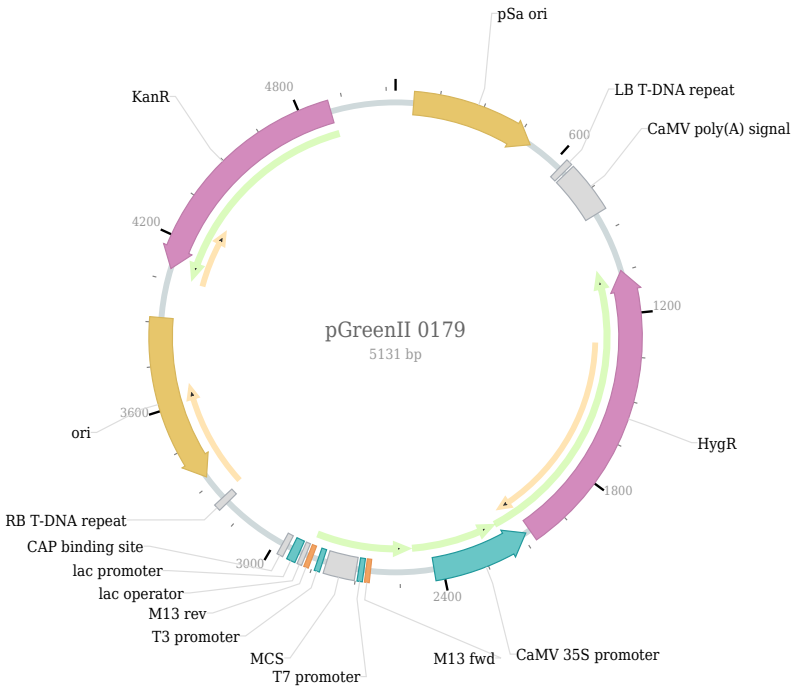
pGreenII 0179

Vector ID	V010847
Antibiotic Resistance	Kanamycin
Length	5131 bp
Vector Type	Plant Vectors
Host	Plants

Product Information

Replication Origin	pSa ori
Source/Author	Hellens RP, Edwards EA, Leyland NR, Bean S, Mullineaux PM.
Copy Number	High copy number
Promoter	CaMV 35S
5' Primer	M13 fwd
3' Primer	M13 rev
Growth Strain(s)	Top10
Growth Temperature	37℃
Comment	pGreenII 0179 is a compact Agrobacterium-mediated binary Ti vector from the pGreen system (Hellens et al., 2000). Its ColE1-derived origin supports replication in E. coli, and it requires the helper plasmid pSOUP for replication in A. tumefaciens. It carries an npt1 gene conferring kanamycin resistance for bacterial selection, plus a hygromycin resistance marker for in planta selection (Zhong et al., 2008).

Vector Map



Plasmid Resuspension Protocol

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 ℃.