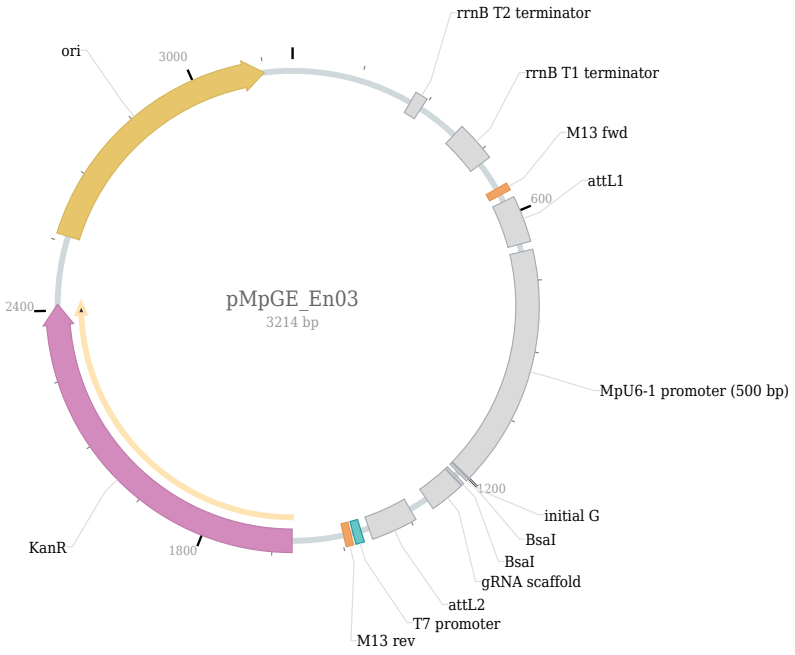
pMpGE_En03

Vector ID	V004674
Antibiotic Resistance	Kanamycin
Length	3214 bp
Vector Type	Gateway entry vector

Product Information

Replication Origin	ori
Source/Author	Sugano SS, Nishihama R, Shirakawa M, Matsuda Y, Takagi T, Hara-Nishimura I, Osakabe K, Kohchi T.
Growth Strain(s)	Top10
Comment	pMpGE_En03 is a Gateway entry vector for constructing gRNA expression cassettes for CRISPR/Cas9 genome editing in Marchantia polymorpha. It carries a 500 bp MpU6-1 promoter, two BsaI sites, a gRNA backbone, and flanking attL1/attL2 for Gateway transfer, with an "extra initial G" pre-built into the vector.

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 ℃.