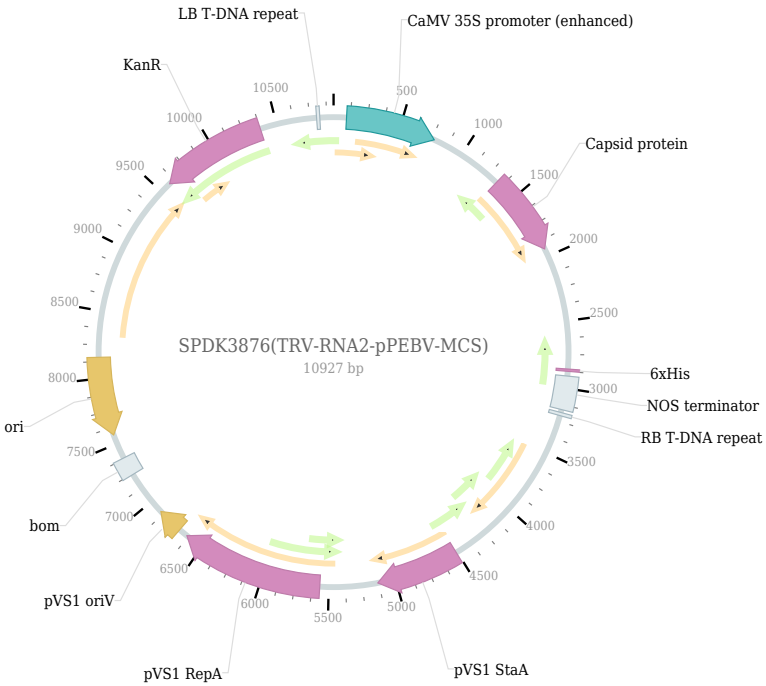
SPDK3876(TRV-RNA2-pPEBV-MCS)

Vector ID	V017312
Antibiotic Resistance	Kanamycin
Length	10927 bp
Vector Type	Protein expression
Host	Plants

Product Information

Replication Origin	ori
Copy Number	Low
Promoter	CaMV35S(enhanced)
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	SPDK3876(TRV-RNA2-pPEBV-MCS) (10.9 kb) is a T-DNA vector for plant virology and gene expression studies. It contains a modified Tobacco rattle virus (TRV) RNA2 genome driven by the PEBV promoter, allowing expression of proteins or RNAs in plants. The vector includes an enhanced CaMV 35S promoter for expression of the viral capsid protein, a 6xHis tag, a NOS terminator, RB/LB T-DNA repeats for Agrobacterium-mediated transformation, pVS1 replicon (oriV/RepA/StaA) for replication in Agrobacterium, a pUC ori (high copy) for E. coli, and KanR for kanamycin selection.

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 ℃.