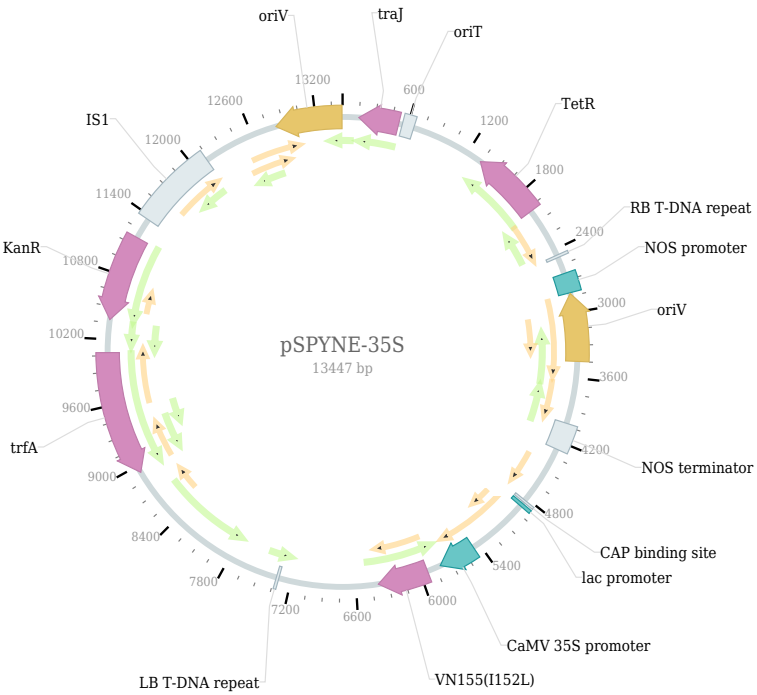
pSPYNE-35S

Vector ID	V015150
Antibiotic Resistance	Kanamycin
Length	13447 bp
Vector Type	Bioluminescence resonance energy transfer (BRET)
Host	Plants

Product Information

Replication Origin	oriV
Selection Marker	Neo/G418
Promoter	CaMV35S(long)
Growth Strain(s)	DH5a
Growth Temperature	37℃
Comment	pSPYNE-35S is a binary plant vector for bimolecular fluorescence complementation (BiFC). The CaMV 35S promoter drives constitutive expression of targets fused to VN155(I152L), a Venus N-terminal fragment whose I152L mutation reduces fragment self-assembly and raises the signal-to-noise ratio ~4-fold (Kodama and Hu, 2010). Flanked by T-DNA borders, it enables Agrobacterium-mediated transformation with kanamycin/neomycin selection. Co-expression with pSPYCE-35S restores fluorescence upon interaction.

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 ℃.