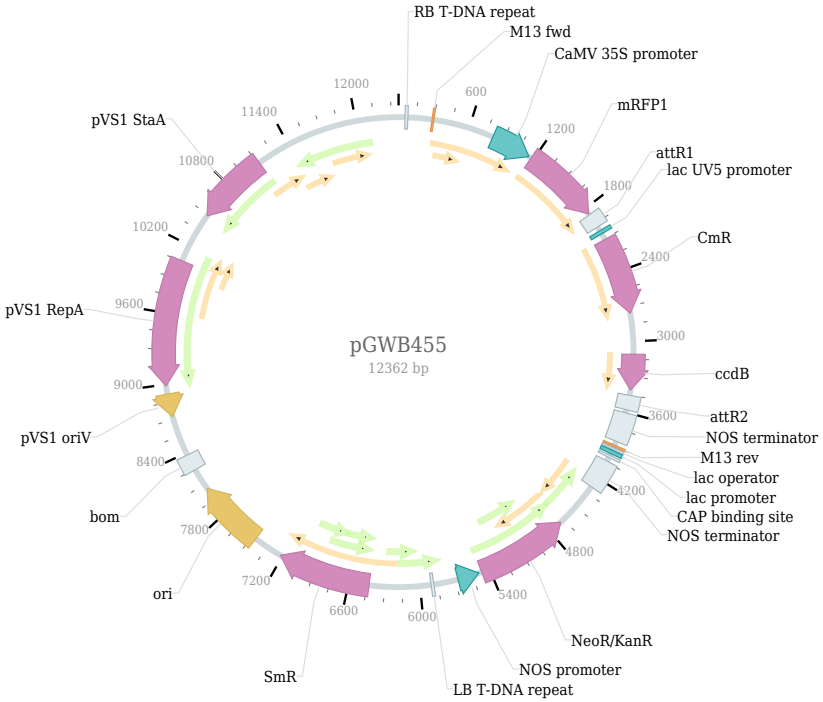
pGWB455

Vector ID	V005816
Antibiotic Resistance	Streptomycin
Length	12362 bp
Vector Type	Gateway binary vector
Host	Plants

Product Information

Replication Origin	ori
Source/Author	Nakagawa T, Suzuki T, Murata S, Nakamura S, Hino T, Maeo K, Tabata R, Kawai T, Tanaka K, Niwa Y, Watanabe Y, Nakamura K, Kimura T, Ishiguro S.
Promoter	CaMV35S(long)
Growth Strain(s)	stbl3
Growth Temperature	37℃
Comment	pGWB455 belongs to the pGWB400 Gateway binary vector series carrying kanamycin plant resistance marker. It contains CaMV 35S promoter and mediates constitutive N-terminal fusion of target proteins with monomeric mRFP fluorescent tag in plants. Built on small pPZP221 backbone, this high-copy plasmid enables efficient Gateway LR recombination without linearization. It is widely applied for plant protein subcellular localization and co-localization fluorescence imaging assays.

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 ℃.