

DNA sequence components for construct pTF101.1gw

- aadA:** aminoglycoside 3'-adenylyltransferase gene of *Shigella flexneris* 2a that confers resistant to antibiotic streptomycin (Chinault et al, 1986).
- bar:** phosphinothricin acetyl transferase gene from *Streptomyces hygroscopicus* that confers resistant to herbicide phosphinothricin and its derivatives (Thompson et al, 1987; White et al, 1990; Becker et al, 1992).
- ccdB** A gene which encodes a protein that interferes with *E. coli* DNA gyrase, thereby inhibiting the growth of standard *E. coli* hosts. Cells that take up vectors carrying the ccdB gene, or by-product molecules that retain the ccdB gene, will fail to grow. This allows high-efficiency recovery of only the desired clones (Bernard and Couturier, 1992).
- CmR** Chloramphenicol resistance gene coding for a bacterial chloramphenicol efflux system. (Nilsen et al. 1996).
- P35S:** the cauliflower mosaic virus 35S promoter (Odell et al, 1985; Haq et al, 1995).
- Tnos:** 3' terminator from nopaline synthase gene of *Agrobacterium tumefaciens* (Depicker et al, 1982).
- Tvsp:** 3' terminator from soybean vegetative storage protein gene (Mason et al, 1993; Haq et al, 1995).
- TEV:** Tobacco Etch Virus translational enhancer (Gallie et al, 1995; Wilson, 1999).
- RB:** The T-DNA right border fragment from nopaline strain of *Agrobacterium tumefaciens* (Zambryski et al, 1982).
- LB:** The T-DNA left border fragment from nopaline strain of *Agrobacterium tumefaciens* (Zambryski et al, 1982).
- pVS1:** A broad host range plasmid from *Pseudomonas* (Itoh and Haas, 1985; Hajdukiewicz et al, 1994).

pTF101.1gw1 (by David Jackson, Cold Spring Harbor Laboratory, 1 Bungtown Rd., NY 11724, USA, jacksond@phage.cshl.edu)

attR1 and attR2: Short modified DNA sequences targeted by the bacteriophage Lambda recombination system to recombine precisely with their attL counter part (Landy 1989; Bushmann et al 1985)

pTF101.1gw3 (by Francois Torney, Plant Transformation Facility, Iowa State University, Ames, IA 50011-1010, USA, ftorney@iastate.edu)

attR3 and attR4: Short modified DNA sequences targeted by the bacteriophage Lambda recombination system to recombine precisely with their attL counter part (Landy 1989; Bushmann et al 1985).

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