Resource Summary Report

Generated by dkNET on Sep 3, 2026

pART27::PtGFP

RRID:Addgene_258579
Type: Plasmid

Proper Citation

RRID:Addgene_258579

Plasmid Information

URL: http://www.addgene.org/258579

Proper Citation: RRID:Addgene_258579

Insert Name: PtGFP

Organism: Ptilosarcus sp. CSG-2001

Bacterial Resistance: Spectinomycin

Defining Citation: PMID:16600023

Vector Backbone Description: Backbone Marker:Andrew Gleave (Addgene #247986); Backbone Size:11612; Vector Backbone:pART27; Vector Types:Bacterial Expression, Plant Expression; Bacterial Resistance:Spectinomycin

Comments: pART27::PtGFP is the binary vector harbouring the NotI-fragment subcloned from pART7::PtGFP. It is for stable expression of PtGFP in the cytoplasm of higher plants via agrobacterium mediated transfer of the tDNA into the plant genome (Clough and Bent 1998 PubMed: 10069079; DOI: 10.1007/BF00028910). Note: The vector confers Spectinomycin resistance to bacteria (E. coli and Agrobacterium tumefaciens), but confers Kanamycin resistance to plants. PtGFP (GenBank AY015995) is a green fluorescent protein from the sea pen Ptilosarcus gurneyi which has been expressed in plants and used as a ratiometric pH indicator (Schulte et al. 2006 doi.org/10.1186/1746-4811-2-7, PubMed ID: 16600023). PtGFP is more photostable and less sensitive to acidic environments when compared with pHluorins (GenBank AF058694; GenBank AF058695).

Plasmid Name: pART27::PtGFP

Record Creation Time: 20260826T042048+0000

Record Last Update: 20260902T045121+0000

Ratings and Alerts

No rating or validation information has been found for pART27::PtGFP.

No alerts have been found for pART27::PtGFP.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We have not found any literature mentions for this resource.