

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pSB90 - pAGM4723_VirGN54D

RRID:Addgene_123187

Type: Plasmid

Proper Citation

RRID:Addgene_123187

Plasmid Information

URL: <http://www.addgene.org/123187>

Proper Citation: RRID:Addgene_123187

Insert Name: VirGN54D from pAD1289 (a gift from A. Das)

Organism: Agrobacterium tumefaciens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:31263474](#)

Vector Backbone Description: Backbone Marker:Weber et al., 2011 (DOI:10.1371/journal.pone.0016765); Backbone Size:12773; Vector Backbone:pAGM4723; Vector Types:Plant Expression, Level 2 acceptor vector for expression in plants ; Bacterial Resistance:Kanamycin

Comments: Golden Gate (MoClo; Weber et al., 2011) level 2 acceptor vector with Mutation VirGN54D for increased virulence. Increased virulence in Agrobacteria for a high-efficiency gene transfer (increased with and without acetosyringone, compared to original vector control).

Plasmid Name: pSB90 - pAGM4723_VirGN54D

Relevant Mutation: VirGN54D for increase virulence

Record Creation Time: 20220422T221644+0000

Record Last Update: 20260725T073700+0000

Ratings and Alerts

No rating or validation information has been found for pSB90 - pAGM4723_VirGN54D.

No alerts have been found for pSB90 - pAGM4723_VirGN54D.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#) .

Cole-Osborn LF, et al. (2025) Identification of DELLA and GID1 genes in Catharanthus roseus and their potential role in regulating vindoline biosynthesis. Plant molecular biology, 115(3), 72.

Jeong JH, et al. (2024) Development of super-infective ternary vector systems for enhancing the Agrobacterium-mediated plant transformation and genome editing efficiency. Horticulture research, 11(9), uhae187.