

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 21, 2026

pSelAct-KO

RRID:Addgene_174374

Type: Plasmid

Proper Citation

RRID:Addgene_174374

Plasmid Information

URL: <http://www.addgene.org/174374>

Proper Citation: RRID:Addgene_174374

Bacterial Resistance: Apramycin

Defining Citation: [PMID:34890250](#)

Vector Backbone Description: Backbone Size:7373; Vector Backbone:pUC19; Vector Types:Vector for 2-step knockout by homologous recombination; Bacterial Resistance:Apramycin

Comments: Also known as pSelAct. For cloning in homology arms, can use Gateway, restriction-ligation, or homology-based cloning such as Gibson/Infusion cloning. Please cite at minimum paper 1) and a secondary paper that is most appropriate to your system of interest (2 or 3). 1. First development of pSelAct for knockouts in *Rhodococcus equi*: Geize, R. van der, Jong, W. de, Hessels, G. I., Grommen, A. W. F., Jacobs, A. A. C., and Dijkhuizen, L. 2008. A novel method to generate unmarked gene deletions in the intracellular pathogen *Rhodococcus equi* using 5-fluorocytosine conditional lethality. *Nucleic Acids Res.* 36:e151 2. First development of pSelAct with Gateway cassette for knockouts in *Rhodococcus fascians*: Savory, E. A., Weisberg, A. J., Stevens, D. M., Creason, A. L., Fuller, S. L., Pearce, E. M., and Chang, J. H. 2020. Phytopathogenic *Rhodococcus* Have Diverse Plasmids With Few Conserved Virulence Functions. *Front Microbiol.* 11:1022 3. Later referred to as pSelAct-KO after optimization for knockouts in *Clavibacter*: Stevens, D. M., Tang, A., and Coaker, G. 2021. A Genetic Toolkit for Investigating *Clavibacter* Species: Markerless Deletion, Permissive Site Identification, and an Integrative Plasmid. *Mol Plant-microbe Interactions.* 34:1336–1345

Plasmid Name: pSelAct-KO

Record Creation Time: 20220422T222008+0000

Record Last Update: 20260815T081039+0000

Ratings and Alerts

No rating or validation information has been found for pSelAct-KO.

No alerts have been found for pSelAct-KO.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.