

Resource Summary Report

Generated by [dkNET](#) on Aug 17, 2026

pAG423GAL-ccdB

RRID:Addgene_14149

Type: Plasmid

Proper Citation

RRID:Addgene_14149

Plasmid Information

URL: <http://www.addgene.org/14149>

Proper Citation: RRID:Addgene_14149

Bacterial Resistance: Chloramphenicol and Ampicillin

Defining Citation: [PMID:17583893](#)

Vector Backbone Description: Backbone Size:0; Vector Backbone:pRS423; Vector Types:Yeast Expression, Gateway Cloning; Bacterial Resistance:Chloramphenicol and Ampicillin

Comments: Type of plasmid: 2-micron. This plasmid contains the Gateway technology from Invitrogen; Invitrogen requires purchasing of Gateway Clonase for carrying out the Gateway recombinational cloning reaction <http://www.invitrogen.com> Please note that the full plasmid sequence is provided as a reference only, and may not match the exact sequence of the plasmid.

Plasmid Name: pAG423GAL-ccdB

Record Creation Time: 20220422T221815+0000

Record Last Update: 20260815T080649+0000

Ratings and Alerts

No rating or validation information has been found for pAG423GAL-ccdB.

No alerts have been found for pAG423GAL-ccdB.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Clayton EJ, et al. (2026) Investigating substrate specificity in arogonate versus prephenate dehydratases. *BMC biology*, 24(1).

Wolters SM, et al. (2024) The interaction networks of small rubber particle proteins in the latex of *Taraxacum koksaghyz* reveal diverse functions in stress responses and secondary metabolism. *Frontiers in plant science*, 15, 1498737.

Liu P, et al. (2024) Transposase-assisted target-site integration for efficient plant genome engineering. *Nature*, 631(8021), 593.

Redd PS, et al. (2023) Transposase expression, element abundance, element size, and DNA repair determine the mobility and heritability of PIF/Pong/Harbinger transposable elements. *Frontiers in cell and developmental biology*, 11, 1184046.

Lin LT, et al. (2021) Hsp90 and its co-chaperone Sti1 control TDP-43 misfolding and toxicity. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 35(5), e21594.

Bicalho KU, et al. (2019) CYP712K4 Catalyzes the C-29 Oxidation of Friedelin in the *Maytenus ilicifolia* Quinone Methide Triterpenoid Biosynthesis Pathway. *Plant & cell physiology*, 60(11), 2510.

Ivanova A, et al. (2019) A Mitochondrial LYR Protein Is Required for Complex I Assembly. *Plant physiology*, 181(4), 1632.

Tzin V, et al. (2019) Integrated metabolomics identifies CYP72A67 and CYP72A68 oxidases in the biosynthesis of *Medicago truncatula* oleanate sapogenins. *Metabolomics : Official journal of the Metabolomic Society*, 15(6), 85.

Buzon B, et al. (2018) Structure-specific endonuclease activity of SNM1A enables processing of a DNA interstrand crosslink. *Nucleic acids research*, 46(17), 9057.

Lau YH, et al. (2018) Prokaryotic nanocompartments form synthetic organelles in a eukaryote. *Nature communications*, 9(1), 1311.

Miettinen K, et al. (2017) The ancient CYP716 family is a major contributor to the diversification of eudicot triterpenoid biosynthesis. *Nature communications*, 8, 14153.

Reed J, et al. (2017) A translational synthetic biology platform for rapid access to gram-scale quantities of novel drug-like molecules. *Metabolic engineering*, 42, 185.

Lawry SM, et al. (2017) Fludioxonil Induces Drk1, a Fungal Group III Hybrid Histidine Kinase, To Dephosphorylate Its Downstream Target, Ypd1. *Antimicrobial agents and chemotherapy*, 61(2).

Rajagopalan N, et al. (2016) Probing allocrite preferences of 2 naturally occurring variants of the wheat LR34 ABC transporter. *Biochemistry and cell biology = Biochimie et biologie cellulaire*, 94(5), 459.

Moses T, et al. (2015) Unraveling the triterpenoid saponin biosynthesis of the African shrub *Maesa lanceolata*. *Molecular plant*, 8(1), 122.

Moses T, et al. (2015) OSC2 and CYP716A14v2 catalyze the biosynthesis of triterpenoids for the cuticle of aerial organs of *Artemisia annua*. *The Plant cell*, 27(1), 286.

Vanholme B, et al. (2013) Breeding with rare defective alleles (BRDA): a natural *Populus nigra* HCT mutant with modified lignin as a case study. *The New phytologist*, 198(3), 765.

Karas BJ, et al. (2012) Cloning the *Acholeplasma laidlawii* PG-8A genome in *Saccharomyces cerevisiae* as a yeast centromeric plasmid. *ACS synthetic biology*, 1(1), 22.