

Resource Summary Report

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

pAG425GAL-ccdB

RRID:Addgene_14153

Type: Plasmid

Proper Citation

RRID:Addgene_14153

Plasmid Information

URL: <http://www.addgene.org/14153>

Proper Citation: RRID:Addgene_14153

Bacterial Resistance: Chloramphenicol and Ampicillin

Defining Citation: [PMID:17583893](#)

Vector Backbone Description: Backbone Size:0; Vector Backbone:pRS425; 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: pAG425GAL-ccdB

Record Creation Time: 20220422T221815+0000

Record Last Update: 20260815T080649+0000

Ratings and Alerts

No rating or validation information has been found for pAG425GAL-ccdB.

No alerts have been found for pAG425GAL-ccdB.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 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).

Peebles SM, et al. (2026) Asparaginyl-tRNA synthetase (NARS1) variants implicated in dominant neurological phenotypes display dominant-negative properties. *HGG advances*, 7(1), 100519.

Tarnopol RL, et al. (2025) Experimental horizontal transfer of phage-derived genes to *Drosophila* confers innate immunity to parasitoids. *Current biology : CB*, 35(3), 514.

Kuo ME, et al. (2025) Recessive, pathogenic AARS1 variants display variable loss-of-function and dominant-negative effects. *Disease models & mechanisms*, 18(6).

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

Lin JD, et al. (2023) Functional diversification despite structural congruence in the HipBST toxin-antitoxin system of *Legionella pneumophila*. *mBio*, 14(5), e0151023.

Meyer-Schuman R, et al. (2023) A humanized yeast model reveals dominant-negative properties of neuropathy-associated alanyl-tRNA synthetase mutations. *Human molecular genetics*, 32(13), 2177.

Israel D, et al. (2021) The contribution of PIP2-type aquaporins to photosynthetic response to increased vapour pressure deficit. *Journal of experimental botany*, 72(13), 5066.

Park S, et al. (2019) Calcium-responsive transactivator (CREST) toxicity is rescued by loss of PBP1/ATXN2 function in a novel yeast proteinopathy model and in transgenic flies. *PLoS genetics*, 15(8), e1008308.

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.

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.

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

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.