Resource Summary Report

Generated by RRID on Aug 19, 2026

pAGM4723

RRID:Addgene_48015
Type: Plasmid

Proper Citation

RRID:Addgene_48015

Plasmid Information

URL: http://www.addgene.org/48015

Proper Citation: RRID:Addgene_48015

Bacterial Resistance: Kanamycin

Defining Citation: PMID:21364738

Vector Backbone Description: Backbone Marker:self-made; Backbone Size:4824; Vector Backbone:pAGM4351; Vector Types:Unspecified; Bacterial Resistance:Kanamycin

Comments: PLEASE NOTE- It has recently come to light that plasmid pAGM4723 lacks a complete overdrive sequence at the right border. This can cause incomplete TDNA insertion events and can give a higher incidence of vector backbone transfer events due to transfer initiating at the left border. Level 2 cloning vector, replicates in E.coli and Agrobacterium, binary vector for Agrobacterium T-DNA delivery to plant cells. Please note that bacterial colonies for this plasmid often appear red in color because the plasmid contains a red color selectable marker (CRed--an artificial bacterial operon responsible for canthaxanthin biosynthesis).

Plasmid Name: pAGM4723

Record Creation Time: 20220422T222247+0000

Record Last Update: 20260815T081546+0000

Ratings and Alerts

No rating or validation information has been found for pAGM4723.

No alerts have been found for pAGM4723.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 30 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Singh DK, et al. (2026) Cohesin and its regulation promote monopolar kinetochore orientation at meiosis I in Arabidopsis. Current biology : CB, 36(8), 1994.

Yoshimi Y, et al. (2025) Glucomannan engineering highlights roles of galactosyl modification in fine-tuning cellulose-glucomannan interaction in Arabidopsis cell walls. Nature communications, 16(1), 1235.

Dickinson PJ, et al. (2025) A transcription factor module mediating C2 photosynthesis in the Brassicaceae. EMBO reports, 26(12), 3024.

Miller CN, et al. (2025) A single-nuclei transcriptome census of the Arabidopsis maturing root identifies that MYB67 controls phellem cell maturation. Developmental cell, 60(9), 1377.

Kunta S, et al. (2025) Species-specific PHYTOCHROME-INTERACTING FACTOR utilization in the plant morphogenetic response to environmental stimuli. The Plant cell, 37(5).

Perk EA, et al. (2024) CRISPR-Cas9 Protocol for Efficient Gene Knockout and Transgene-free Plant Generation. Bio-protocol, 14(11), e5012.

Kerwin RE, et al. (2024) Tomato root specialized metabolites evolved through gene duplication and regulatory divergence within a biosynthetic gene cluster. Science advances, 10(17), eadn3991.

Procko C, et al. (2023) Mutational analysis of mechanosensitive ion channels in the carnivorous Venus flytrap plant. Current biology : CB, 33(15), 3257.

Nourozi M, et al. (2023) CRISPR/Cas StNRL1 gene knockout increases resistance to late blight and susceptibility to early blight in potato. Frontiers in plant science, 14, 1278127.

Holden S, et al. (2022) A lineage-specific Exo70 is required for receptor kinase-mediated immunity in barley. Science advances, 8(27), eabn7258.

Dong Y, et al. (2022) An optimized protocol to assess SUMOylation in the plant Capsella rubella using two-component DEX-inducible transformants. STAR protocols, 3(1), 101197.

Vu MH, et al. (2022) ROS-mediated plasmodesmal regulation requires a network of an Arabidopsis receptor-like kinase, calmodulin-like proteins, and callose synthases. Frontiers in plant science, 13, 1107224.

Yang C, et al. (2021) The scarecrow-like transcription factor SlSCL3 regulates volatile terpene biosynthesis and glandular trichome size in tomato (Solanum lycopersicum). The

Plant journal : for cell and molecular biology, 107(4), 1102.

Ackerman-Lavert M, et al. (2021) Auxin requirements for a meristematic state in roots depend on a dual brassinosteroid function. Current biology : CB, 31(20), 4462.

Rossmann S, et al. (2020) Mutations in the miR396 binding site of the growth-regulating factor gene VvGRF4 modulate inflorescence architecture in grapevine. The Plant journal : for cell and molecular biology, 101(5), 1234.

Kuhn A, et al. (2020) Direct ETTIN-auxin interaction controls chromatin states in gynoecium development. eLife, 9.

Alvim Kamei CL, et al. (2020) CRISPR/Cas9-Mediated Mutagenesis of RCO in Cardamine hirsuta. Plants (Basel, Switzerland), 9(2).

Kourelis J, et al. (2020) Evolution of a guarded decoy protease and its receptor in solanaceous plants. Nature communications, 11(1), 4393.

Fan P, et al. (2020) Evolution of a plant gene cluster in Solanaceae and emergence of metabolic diversity. eLife, 9.

Israeli A, et al. (2019) Multiple Auxin-Response Regulators Enable Stability and Variability in Leaf Development. Current biology : CB, 29(11), 1746.