

Resource Summary Report

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

pHSE401

RRID:Addgene_62201

Type: Plasmid

Proper Citation

RRID:Addgene_62201

Plasmid Information

URL: <http://www.addgene.org/62201>

Proper Citation: RRID:Addgene_62201

Insert Name: gRNA scaffold

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:25432517](#)

Vector Backbone Description: Backbone Size:6500; Vector Backbone:pCambia; Vector Types:Plant Expression, plant binary vector; Bacterial Resistance:Kanamycin

Plasmid Name: pHSE401

Record Creation Time: 20220422T222356+0000

Record Last Update: 20260815T081750+0000

Ratings and Alerts

No rating or validation information has been found for pHSE401.

No alerts have been found for pHSE401.

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](#) .

Lin M, et al. (2026) Unlocking translational control of specialized metabolism in plants through 5'UTR structure. *Science advances*, 12(21), eaeb6806.

Saleem MS, et al. (2026) CRISPR/Cas9-mediated editing of the GhJAZ2 gene improves fiber length and lint percentage in *Gossypium hirsutum* L. *GM crops & food*, 17(1), 2660546.

Purayil FT, et al. (2025) Genetic modification of Water spinach (*Ipomoea aquatica*), a genoprotective perennial leafy green. *Physiologia plantarum*, 177(3), e70257.

Sustek-Sánchez F, et al. (2025) Isolation and transformation of perennial ryegrass (*Lolium perenne* L.) protoplasts for the in vivo assessment of guide RNAs editing efficiency. *Frontiers in plant science*, 16, 1744085.

Rafi M, et al. (2025) Application of a multiplex CRISPR/Cas9 strategy for elimination of selection markers from transgenic plants. *Frontiers in genome editing*, 7, 1633104.

Aydin A, et al. (2025) CRISPR-mediated mutation of cytokinin signaling genes (SIHP2 and SIHP3) in tomato: Morphological, physiological, and molecular characterization. *The plant genome*, 18(1), e20542.

Shin D, et al. (2025) Tomato pollen tube growth requires flavonol glycosylation. *Plant physiology*, 199(3).

Potsenkovskaia EA, et al. (2024) CRISPR-Based Editing of the *Medicago truncatula* LEC1 Gene. *Plants (Basel, Switzerland)*, 13(22).

Jogam P, et al. (2023) Editing of TOM1 gene in tobacco using CRISPR/Cas9 confers resistance to Tobacco mosaic virus. *Molecular biology reports*, 50(6), 5165.

Zhao Z, et al. (2022) Exploring the *Agrobacterium*-mediated transformation with CRISPR/Cas9 in cucumber (*Cucumis sativus* L.). *Molecular biology reports*, 49(12), 11481.

Singh M, et al. (2022) Recent biotechnological developments in reshaping the microalgal genome: A signal for green recovery in biorefinery practices. *Chemosphere*, 293, 133513.

Wang X, et al. (2022) Development of a set of novel binary expression vectors for plant gene function analysis and genetic transformation. *Frontiers in plant science*, 13, 1104905.

Sánchez FJ, et al. (2022) Metabolic engineering of cassava to improve carotenoids. *Methods in enzymology*, 671, 31.

Liu S, et al. (2022) AtGCS promoter-driven clustered regularly interspaced short palindromic repeats/Cas9 highly efficiently generates homozygous/biallelic mutations in the transformed roots by *Agrobacterium rhizogenes*-mediated transformation. *Frontiers in plant science*, 13, 952428.

Olivares F, et al. (2021) CRISPR/Cas9 Targeted Editing of Genes Associated With Fungal Susceptibility in *Vitis vinifera* L. cv. Thompson Seedless Using Geminivirus-Derived Replicons. *Frontiers in plant science*, 12, 791030.

Lin WR, et al. (2020) Development of CRISPR/Cas9 system in *Chlorella vulgaris* FSP-E to enhance lipid accumulation. *Enzyme and microbial technology*, 133, 109458.

Hooghvorst I, et al. (2019) Efficient knockout of phytoene desaturase gene using CRISPR/Cas9 in melon. *Scientific reports*, 9(1), 17077.

Nakajima O, et al. (2016) Cas9 in Genetically Modified Food Is Unlikely to Cause Food Allergy. *Biological & pharmaceutical bulletin*, 39(11), 1876.