

Resource Summary Report

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

pKSE401

RRID:Addgene_62202

Type: Plasmid

Proper Citation

RRID:Addgene_62202

Plasmid Information

URL: <http://www.addgene.org/62202>

Proper Citation: RRID:Addgene_62202

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: pKSE401

Record Creation Time: 20220422T222356+0000

Record Last Update: 20260815T081750+0000

Ratings and Alerts

No rating or validation information has been found for pKSE401.

No alerts have been found for pKSE401.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Le NT, et al. (2026) Enhancing papaya resistance to ringspot virus through CRISPR/Cas9-mediated gene editing of eIF4E. *Frontiers in plant science*, 17, 1799408.

Yang Y, et al. (2025) The long non-coding RNA MSTRG.32189-PcmiR399b-PcUBC24 module regulates phosphate accumulation and disease resistance to *Botryosphaeria dothidea* in pear. *Horticulture research*, 12(4), uhae359.

Al Nuaimi M, et al. (2025) T-DNA orientation, distance between two T-DNAs, and the transformation target cells significantly impact vector backbone integration and efficiency of generating marker-free transgenic plants in a co-transformation system. *The Plant journal : for cell and molecular biology*, 124(1), e70510.

Wang X, et al. (2024) Fine mapping and identification of two NtTOM2A homeologs responsible for tobacco mosaic virus replication in tobacco (*Nicotiana tabacum* L.). *BMC plant biology*, 24(1), 67.

Pfotenauer AC, et al. (2023) Genome-Editing of FtsZ1 for Alteration of Starch Granule Size in Potato Tubers. *Plants (Basel, Switzerland)*, 12(9).

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.

Lin Y, et al. (2022) CRISPR/Cas9-Mediated Editing of Autophagy Gene 6 in *Petunia* Decreases Flower Longevity, Seed Yield, and Phosphorus Remobilization by Accelerating Ethylene Production and Senescence-Related Gene Expression. *Frontiers in plant science*, 13, 840218.

Hyden B, et al. (2022) Protoplast-Based Transient Expression and Gene Editing in Shrub Willow (*Salix purpurea* L.). *Plants (Basel, Switzerland)*, 11(24).

Le NT, et al. (2022) Simultaneously induced mutations in eIF4E genes by CRISPR/Cas9 enhance PVY resistance in tobacco. *Scientific reports*, 12(1), 14627.

Wang Q, et al. (2022) DORN1 Is Involved in Drought Stress Tolerance through a Ca²⁺-Dependent Pathway. *International journal of molecular sciences*, 23(22).

Hasley JAR, et al. (2021) CRISPR/Cas9-mediated mutagenesis of sweet basil candidate susceptibility gene ObDMR6 enhances downy mildew resistance. *PloS one*, 16(6), e0253245.

Singer SD, et al. (2021) The CRISPR/Cas9-Mediated Modulation of SQUAMOSA PROMOTER-BINDING PROTEIN-LIKE 8 in Alfalfa Leads to Distinct Phenotypic Outcomes. *Frontiers in plant science*, 12, 774146.

Nguyen DV, et al. (2021) An Efficient Hairy Root System for Validation of Plant Transformation Vector and CRISPR/Cas Construct Activities in Cucumber (*Cucumis sativus* L.). *Frontiers in plant science*, 12, 770062.

Zhang C, et al. (2021) Genome design of hybrid potato. *Cell*, 184(15), 3873.

Tian Y, et al. (2020) Enhancement of Tobacco (*Nicotiana tabacum* L.) Seed Lipid Content for Biodiesel Production by CRISPR-Cas9-Mediated Knockout of NtAn1. *Frontiers in plant science*, 11, 599474.

Liu D, et al. (2019) CRISPR/Cas9-mediated targeted mutagenesis for functional genomics research of crassulacean acid metabolism plants. *Journal of experimental botany*, 70(22), 6621.

D'Ambrosio C, et al. (2018) CRISPR/Cas9 editing of carotenoid genes in tomato. *Transgenic research*, 27(4), 367.