Resource Summary Report

Generated by RRID on Aug 19, 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 RRID .

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.

Pfotenhauer 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.