

Resource Summary Report

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

pICH86966::AtU6p::sgRNA_PDS

RRID:Addgene_46966

Type: Plasmid

Proper Citation

RRID:Addgene_46966

Plasmid Information

URL: <http://www.addgene.org/46966>

Proper Citation: RRID:Addgene_46966

Insert Name: AtU6p::sgRNA_PDS

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:23929340](#)

Vector Backbone Description: Backbone Size:6340; Vector Backbone:pICH86966; Vector Types:CRISPR, Plant expression; Bacterial Resistance:Kanamycin

Comments: gRNA target sequence GCCGTTAATTTGAGAGTCCA

Plasmid Name: pICH86966::AtU6p::sgRNA_PDS

Record Creation Time: 20220422T222242+0000

Record Last Update: 20260815T081537+0000

Ratings and Alerts

No rating or validation information has been found for pICH86966::AtU6p::sgRNA_PDS.

No alerts have been found for pICH86966::AtU6p::sgRNA_PDS.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 25 mentions in open access literature.

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

Nyik?? T, et al. (2025) INCREASED DNA METHYLATION 3 forms a potential chromatin remodelling complex with HAIRPLUS to regulate DNA methylation and trichome development in tomato. The Plant journal : for cell and molecular biology, 121(6), e70085.

Almeida J, et al. (2025) The FIBRILLIN multigene family in tomato, their roles in plastoglobuli structure and metabolism. The Plant journal : for cell and molecular biology, 123(5), e70447.

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

Shelake RM, et al. (2025) Protocol for assessment of CRISPR base editors and their components in Escherichia coli. STAR protocols, 6(3), 103973.

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

Drapal M, et al. (2023) The potential of metabolomics in assessing global compositional changes resulting from the application of CRISPR/Cas9 technologies. Transgenic research, 32(4), 265.

Alhusayni S, et al. (2023) A rare non-canonical splice site in Trema orientalis SYMRK does not affect its dual symbiotic functioning in endomycorrhiza and rhizobium nodulation. BMC plant biology, 23(1), 587.

Shelake RM, et al. (2023) Improved Dual Base Editor Systems (iACBEs) for Simultaneous Conversion of Adenine and Cytosine in the Bacterium Escherichia coli. mBio, 14(1), e0229622.

Shelake RM, et al. (2022) In Vivo Rapid Investigation of CRISPR-Based Base Editing Components in Escherichia coli (IRI-CCE): A Platform for Evaluating Base Editing Tools and Their Components. International journal of molecular sciences, 23(3).

Laskowski MJ, et al. (2022) The miR156 juvenility factor and PLETHORA 2 form a regulatory network and influence timing of meristem growth and lateral root emergence. Development (Cambridge, England), 149(21).

Kerstens M, et al. (2021) Nature and Nurture: Genotype-Dependent Differential Responses of Root Architecture to Agar and Soil Environments. Genes, 12(7).

Bu F, et al. (2020) Mutant analysis in the nonlegume Parasponia andersonii identifies NIN and NF-YA1 transcription factors as a core genetic network in nitrogen-fixing nodule symbioses. The New phytologist, 226(2), 541.

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

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

Wang D, et al. (2019) Characterization of CRISPR Mutants Targeting Genes Modulating Pectin Degradation in Ripening Tomato. *Plant physiology*, 179(2), 544.

Buscaill P, et al. (2019) Glycosidase and glycan polymorphism control hydrolytic release of immunogenic flagellin peptides. *Science (New York, N.Y.)*, 364(6436).

Tomlinson L, et al. (2019) Using CRISPR/Cas9 genome editing in tomato to create a gibberellin-responsive dominant dwarf DELLA allele. *Plant biotechnology journal*, 17(1), 132.

Wardhani TAK, et al. (2019) Transforming, Genome Editing and Phenotyping the Nitrogen-fixing Tropical Cannabaceae Tree *Parasponia andersonii*. *Journal of visualized experiments : JoVE*(150).

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

Wu S, et al. (2018) A common genetic mechanism underlies morphological diversity in fruits and other plant organs. *Nature communications*, 9(1), 4734.