

Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

pYLCRISPR/Cas9Pubi-H

RRID:Addgene_66187

Type: Plasmid

Proper Citation

RRID:Addgene_66187

Plasmid Information

URL: <http://www.addgene.org/66187>

Proper Citation: RRID:Addgene_66187

Insert Name: Cas9

Organism: Other

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:25917172](#)

Vector Backbone Description: Backbone Marker:CAMBIA ; Vector Backbone:pCAMBIA1300 ; Vector Types:Plant Expression; Bacterial Resistance:Kanamycin

Comments: Accession # KR029109. A fragment containing a modified ccdB flanked by two BsaI sites was cloned into the vector to produce the CRISPR/Cas9 binary vector. This can be used for inserting sgRNA cassette. Please note that an IS5 transposase insertion sequence was found during Addgene's quality control process. The depositing lab noted that the presence of IS5 should not affect plasmid function. Please see our published protocol for using these plasmids. Ma, X. and Liu, Y.-G. 2016. CRISPR/Cas9-based multiplex genome editing in monocot and dicot plants. Curr. Protoc. Mol. Biol. 115:31.6.1-31.6.21. <http://onlinelibrary.wiley.com/doi/10.1002/cpmb.10/abstract> doi: 10.1002/cpmb.10

Plasmid Name: pYLCRISPR/Cas9Pubi-H

Relevant Mutation: plant-codon optimized with higher GC contents (62.5%) in the 5' region (400 bp) and 54.2% overall GC content

Record Creation Time: 20220422T222416+0000

Record Last Update: 20260815T081824+0000

Ratings and Alerts

No rating or validation information has been found for pYLCRISPR/Cas9Pubi-H.

No alerts have been found for pYLCRISPR/Cas9Pubi-H.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Nomura C, et al. (2026) Fine-tuning quantitative agronomic traits by manipulating gene copy number in rice. *The New phytologist*, 251(4), 1609.

Hu Q, et al. (2024) Regulatory mechanisms of strigolactone perception in rice. *Cell*, 187(26), 7551.

Liu JL, et al. (2022) A CASE toolkit for easy and efficient multiplex transgene-free gene editing. *Plant physiology*, 188(4), 1843.

Li J, et al. (2021) Fatty Acid Desaturases in the Chloroplast and Endoplasmic Reticulum Promote Susceptibility to the Green Peach Aphid *Myzus persicae* in *Arabidopsis thaliana*. *Molecular plant-microbe interactions : MPMI*, 34(6), 691.

Yu H, et al. (2021) A route to de novo domestication of wild allotetraploid rice. *Cell*, 184(5), 1156.

Usman B, et al. (2020) Generation of High Yielding and Fragrant Rice (*Oryza sativa* L.) Lines by CRISPR/Cas9 Targeted Mutagenesis of Three Homoeologs of Cytochrome P450 Gene Family and OsBADH2 and Transcriptome and Proteome Profiling of Revealed Changes Triggered by Mutations. *Plants (Basel, Switzerland)*, 9(6).

Ma X, et al. (2016) CRISPR/Cas9-Based Multiplex Genome Editing in Monocot and Dicot Plants. *Current protocols in molecular biology*, 115, 31.6.1.