

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

pMH-Cas9-gate

RRID:Addgene_113742

Type: Plasmid

Proper Citation

RRID:Addgene_113742

Plasmid Information

URL: <http://www.addgene.org/113742>

Proper Citation: RRID:Addgene_113742

Insert Name: Cas9

Organism: S. pyogenes, Z. mays

Bacterial Resistance: Chloramphenicol and Ampicillin

Defining Citation: [PMID:31523744](#)

Vector Backbone Description: Backbone Marker:Promega; Vector Backbone:pGEM-T easy; Vector Types:CRISPR, Gateway Cloning; Bacterial Resistance:Chloramphenicol and Ampicillin

Comments: Also has hygromycinR driven by 35S promoter. We are not sure of the backbone -- it came from a plasmid that was made many many years ago. It aligns well with pGEM-T Easy (which a lot of our plasmids are based on) so if we had to guess, we would say the backbone is pGEM-T Easy.

Plasmid Name: pMH-Cas9-gate

Record Creation Time: 20220422T221555+0000

Record Last Update: 20260725T073531+0000

Ratings and Alerts

No rating or validation information has been found for pMH-Cas9-gate.

No alerts have been found for pMH-Cas9-gate.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Yanez-Dominguez C, et al. (2025) The chloroplast-located HKT transporter plays an important role in fertilization and development in *Physcomitrium patens*. *The Plant journal : for cell and molecular biology*, 121(3), e17253.

Steinberger AR, et al. (2021) Disruption of long-chain base hydroxylation alters growth and impacts sphingolipid synthesis in *Physcomitrella patens*. *Plant direct*, 5(7), e336.

Coudert Y, et al. (2019) A KNOX-Cytokinin Regulatory Module Predates the Origin of Indeterminate Vascular Plants. *Current biology : CB*, 29(16), 2743.