

Resource Summary Report

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

pMJ841

RRID:Addgene_39318

Type: Plasmid

Proper Citation

RRID:Addgene_39318

Plasmid Information

URL: <http://www.addgene.org/39318>

Proper Citation: RRID:Addgene_39318

Insert Name: Cas9

Organism: Streptococcus pyogenes

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:22745249](#)

Vector Backbone Description: Backbone Marker:pET-based custom vector; Backbone Size:6400; Vector Backbone:pEC-K-MBP; Vector Types:Bacterial Expression, CRISPR; Bacterial Resistance:Kanamycin

Plasmid Name: pMJ841

Relevant Mutation: Aspartate 10 to Alanine (D10A) and Histidine 840 to Alanine (H840A); catalytically inactive

Record Creation Time: 20220422T222205+0000

Record Last Update: 20260829T080456+0000

Ratings and Alerts

No rating or validation information has been found for pMJ841.

No alerts have been found for pMJ841.

Data and Source Information

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Zhang M, et al. (2026) Apical Localization of RNA Polymerases Modulate Transcription Dynamics and Supercoiling Domains Revealed by Cryo-ET. bioRxiv : the preprint server for biology.

Maltseva EA, et al. (2023) Cas9 is mostly orthogonal to human systems of DNA break sensing and repair. PloS one, 18(11), e0294683.

Krysler AR, et al. (2022) Guide RNAs containing universal bases enable Cas9/Cas12a recognition of polymorphic sequences. Nature communications, 13(1), 1617.

Tatekawa S, et al. (2022) N(6)-methyladenosine methylation-regulated polo-like kinase 1 cell cycle homeostasis as a potential target of radiotherapy in pancreatic adenocarcinoma. Scientific reports, 12(1), 11074.

Aldag P, et al. (2021) Probing the stability of the SpCas9-DNA complex after cleavage. Nucleic acids research, 49(21), 12411.

Mardenborough YSN, et al. (2019) The unstructured linker arms of MutL enable GATC site incision beyond roadblocks during initiation of DNA mismatch repair. Nucleic acids research, 47(22), 11667.

Rau K, et al. (2019) Sequence-specific m6A demethylation in RNA by FTO fused to RCas9. RNA (New York, N.Y.), 25(10), 1311.

Anders C, et al. (2016) Structural Plasticity of PAM Recognition by Engineered Variants of the RNA-Guided Endonuclease Cas9. Molecular cell, 61(6), 895.

Maeder ML, et al. (2013) CRISPR RNA-guided activation of endogenous human genes. Nature methods, 10(10), 977.