

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

[pMJ920](#)

RRID:Addgene_42234

Type: Plasmid

Proper Citation

RRID:Addgene_42234

Plasmid Information

URL: <http://www.addgene.org/42234>

Proper Citation: RRID:Addgene_42234

Insert Name: Cas9

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23386978](#)

Vector Backbone Description: Backbone Marker:QB3 MacroLab; Backbone Size:6145; Vector Backbone:MacroLab 6D; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Plasmid Name: pMJ920

Relevant Mutation: codon-optimized synthetic DNA sequence

Record Creation Time: 20220422T222218+0000

Record Last Update: 20260815T081451+0000

Ratings and Alerts

No rating or validation information has been found for pMJ920.

No alerts have been found for pMJ920.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 41 mentions in open access literature.

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

Zhang Z, et al. (2025) ANP32 proteins from ticks and vertebrates are key host factors for replication of Bourbon virus across species. *Journal of virology*, 99(6), e0052225.

De Pablo-Moreno JA, et al. (2025) Development of a novel and viable knock-in factor V deficiency murine model: Utility for an ultra-rare disease. *PloS one*, 20(6), e0321864.

Ahmad I, et al. (2025) Murine Leukemia Virus GlycoGag Antagonizes SERINC5 via ER-phagy Receptor RETREG1. *bioRxiv : the preprint server for biology*.

Ahmad I, et al. (2025) Murine leukemia virus glycoGag antagonizes SERINC5 via ER-phagy receptor RETREG1. *PLoS pathogens*, 21(10), e1013023.

Kerschner JL, et al. (2024) The impact of genomic distance on enhancer-promoter interactions at the CFTR locus. *Journal of cellular and molecular medicine*, 28(4), e18142.

Niu X, et al. (2024) Infectious bursal disease virus VP5 triggers host shutoff in a transcription-dependent manner. *mBio*, 15(3), e0343323.

Liu P, et al. (2024) Identification of Cables1 as a critical host factor that promotes ALV-J replication via genome-wide CRISPR/Cas9 gene knockout screening. *The Journal of biological chemistry*, 300(11), 107804.

Pérez-Gómez A, et al. (2024) PPARG is dispensable for bovine embryo development up to tubular stages†. *Biology of reproduction*, 111(3), 557.

Kerschner JL, et al. (2023) An ectopic enhancer restores CFTR expression through de novo chromatin looping. *Gene therapy*, 30(6), 478.

L GB, et al. (2022) The Sperm Olfactory Receptor OLFR601 is Dispensable for Mouse Fertilization. *Frontiers in cell and developmental biology*, 10, 854115.

Yin S, et al. (2022) Cross-talk between enhancers, structural elements and activating transcription factors maintains the 3D architecture and expression of the CFTR gene. *Genomics*, 114(3), 110350.

Chen Y, et al. (2022) Residues L55 and W69 of Tva Mediate Entry of Subgroup A Avian Leukosis Virus. *Journal of virology*, 96(18), e0067822.

Yu M, et al. (2022) KPNA6 is a Cofactor of ANP32A/B in Supporting Influenza Virus Polymerase Activity. *Microbiology spectrum*, 10(1), e0207321.

Paranjapye A, et al. (2022) Krüppel-Like Factor 5 Regulates CFTR Expression Through Repression by Maintaining Chromatin Architecture Coupled with Direct Enhancer Activation. *Journal of molecular biology*, 434(10), 167561.

Lin-Shiao E, et al. (2022) CRISPR-Cas9-mediated nuclear transport and genomic integration of nanostructured genes in human primary cells. *Nucleic acids research*, 50(3), 1256.

Hamilton JR, et al. (2021) Targeted delivery of CRISPR-Cas9 and transgenes enables complex immune cell engineering. *Cell reports*, 35(9), 109207.

Paranjapye A, et al. (2021) Krüppel-like factor 5 regulates wound repair and the innate immune response in human airway epithelial cells. *The Journal of biological chemistry*, 297(2), 100932.

Chai Q, et al. (2021) HIV-1 Nef interacts with the cyclin K/CDK13 complex to antagonize SERINC5 for optimal viral infectivity. *Cell reports*, 36(6), 109514.

Kerschner JL, et al. (2021) OTX2 regulates CFTR expression during endoderm differentiation and occupies 3' cis-regulatory elements. *Developmental dynamics : an official publication of the American Association of Anatomists*, 250(5), 684.

Zhang H, et al. (2020) A unique feature of swine ANP32A provides susceptibility to avian influenza virus infection in pigs. *PLoS pathogens*, 16(2), e1008330.