

Resource Summary Report

Generated by [NIF](#) on Aug 13, 2026

pMCB320

RRID:Addgene_89359

Type: Plasmid

Proper Citation

RRID:Addgene_89359

Plasmid Information

URL: <http://www.addgene.org/89359>

Proper Citation: RRID:Addgene_89359

Insert Name: puromycin resistance, mCherry

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:28319085](#)

Vector Backbone Description: Vector Backbone:pMCB306; mCherry is in place of GFP;
Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: pMCB320 is modified from pMCB306, which was originally derived from pU6-sgGFP-NT1 (addgene #46914) from the Weissman and Qi labs

Plasmid Name: pMCB320

Record Creation Time: 20220422T222608+0000

Record Last Update: 20260808T082334+0000

Ratings and Alerts

No rating or validation information has been found for pMCB320.

No alerts have been found for pMCB320.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Lee S, et al. (2026) Functional characterization of SDHB variants clarifies hereditary pheochromocytoma and paraganglioma risk and genotype-phenotype relationships. *The Journal of clinical investigation*, 136(4).

Heider M, et al. (2026) Localized heme sensing through a ternary molecular glue. *bioRxiv : the preprint server for biology*.

Wang M, et al. (2026) p53 Drives Lung Cancer Regression through a TSC2/TFEB-dependent Senescence Program. *Cancer discovery*, 16(2), 391.

Deol KK, et al. (2026) Vitamin B2 metabolism promotes FSP1 stability to prevent ferroptosis. *Nature structural & molecular biology*, 33(3), 525.

Sudaryo V, et al. (2026) Activation-induced SLC7A1 expression enhances T cell sensitivity to cGAMP-mediated STING signaling. *Cell reports*, 45(7), 117580.

Lee MD, et al. (2025) Prostaglandin E2 inhibits adipogenesis through the cilia-dependent activation of ROCK2. *Journal of cell science*, 138(20).

Sun J, et al. (2025) A microscopy-based CRISPR screening platform enables organellar functional genomics and illuminates ciliary biology. *Developmental cell*.

Elliott SD, et al. (2025) A CRISPR activation screen reveals a cilia disassembly pathway mutated in focal cortical dysplasia. *Science advances*, 11(44), eaeb7238.

Zhao C, et al. (2024) Alpha-defensin binding expands human adenovirus tropism. *PLoS pathogens*, 20(6), e1012317.

Drainas AP, et al. (2024) GCN2 is a determinant of the response to WEE1 kinase inhibition in small-cell lung cancer. *Cell reports*, 43(8), 114606.

Zhang H, et al. (2024) The extracellular matrix integrates mitochondrial homeostasis. *Cell*, 187(16), 4289.

Ganga AK, et al. (2024) A disease-associated PPP2R3C-MAP3K1 phospho-regulatory module controls centrosome function. *bioRxiv : the preprint server for biology*.

Jena KK, et al. (2024) Type III interferons induce pyroptosis in gut epithelial cells and impair mucosal repair. *Cell*, 187(26), 7533.

Ganga AK, et al. (2024) A disease-associated PPP2R3C-MAP3K1 phospho-regulatory module controls centrosome function. *Current biology : CB*, 34(20), 4824.

Zhao C, et al. (2024) Alpha-defensin binding expands human adenovirus tropism. *bioRxiv : the preprint server for biology*.

Riepe C, et al. (2024) Small-molecule correctors divert CFTR-F508del from ERAD by stabilizing sequential folding states. *Molecular biology of the cell*, 35(2), ar15.

Wang J, et al. (2024) DNA-PKcs suppresses illegitimate chromosome rearrangements. *Nucleic acids research*, 52(9), 5048.

Yeo RW, et al. (2023) Chromatin accessibility dynamics of neurogenic niche cells reveal defects in neural stem cell adhesion and migration during aging. *Nature aging*, 3(7), 866.

Morgens DW, et al. (2023) Coding and non-coding elements comprise a regulatory network controlling transcription in Kaposi's sarcoma-associated herpesvirus. *bioRxiv : the preprint server for biology*.

McCollum CO, et al. (2023) The viral packaging motor potentiates Kaposi's sarcoma-associated herpesvirus gene expression late in infection. *PLoS pathogens*, 19(4), e1011163.