

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

pCS2-Jmjd3-F

RRID:Addgene_17440

Type: Plasmid

Proper Citation

RRID:Addgene_17440

Plasmid Information

URL: <http://www.addgene.org/17440>

Proper Citation: RRID:Addgene_17440

Insert Name: JMJD3

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18003914](#)

Vector Backbone Description: Backbone Size:4400; Vector Backbone:pCS2+ NLSMT; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Full length mouse JMJD3 with a C-terminal FLAG was PCR-amplified from MGC clone BC075632 and cloned into the XhoI-XbaI sites downstream of the CMV promoter and in frame with the N-terminal 6myc tag in the pCS2+ NLSMT vector.

Plasmid Name: pCS2-Jmjd3-F

Record Creation Time: 20220422T222008+0000

Record Last Update: 20260815T081040+0000

Ratings and Alerts

No rating or validation information has been found for pCS2-Jmjd3-F.

No alerts have been found for pCS2-Jmjd3-F.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Lin CC, et al. (2025) Structural mechanism of H3K27 demethylation and crosstalk with heterochromatin markers. *Molecular cell*, 85(15), 2869.

Mangum KD, et al. (2025) Epigenetic alteration of smooth muscle cells regulates endothelin-dependent blood pressure and hypertensive arterial remodeling. *The Journal of clinical investigation*, 135(11).

McKee CM, et al. (2022) The anti-aging protein Klotho affects early postnatal myogenesis by downregulating Jmjd3 and the canonical Wnt pathway. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 36(3), e22192.

Rana S, et al. (2021) Activation of epigenetic regulator KDM6B by Salmonella Typhimurium enables chronic infections. *Gut microbes*, 13(1), 1986665.

Gao L, et al. (2019) Mstn knockdown decreases the trans-differentiation from myocytes to adipocytes by reducing Jmjd3 expression via the SMAD2/SMAD3 complex. *Bioscience, biotechnology, and biochemistry*, 83(11), 2090.

Song A, et al. (2017) JMJD3 Is Crucial for the Female AVPV RIP-Cre Neuron-Controlled Kisspeptin-Estrogen Feedback Loop and Reproductive Function. *Endocrinology*, 158(6), 1798.

Wang Y, et al. (2016) ISL1 and JMJD3 synergistically control cardiac differentiation of embryonic stem cells. *Nucleic acids research*, 44(14), 6741.

Kamikawa YF, et al. (2014) The localization of histone H3K27me3 demethylase Jmjd3 is dynamically regulated. *Epigenetics*, 9(6), 834.

Wang WP, et al. (2012) The EP300, KDM5A, KDM6A and KDM6B chromatin regulators cooperate with KLF4 in the transcriptional activation of POU5F1. *PLoS one*, 7(12), e52556.