

Resource Summary Report

Generated by [dkNET](#) on Aug 16, 2026

3XFlagNICD1

RRID:Addgene_20183

Type: Plasmid

Proper Citation

RRID:Addgene_20183

Plasmid Information

URL: <http://www.addgene.org/20183>

Proper Citation: RRID:Addgene_20183

Insert Name: Notch 1 Intracellular Domain

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16365048](#)

Vector Backbone Description: Backbone Marker:Sigma; Backbone Size:4700; Vector Backbone:p3XFLAG-CMV-7; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: All NICD plasmids were cloned into the p3XFLAG-CMV-7(TM) expression vector (Sigma). NICD1 was cloned into XbaI/BamHI sites. NICD1 (Val-1744 to Lys-2531 of full-length mouse N1) was amplified using primers 5XbaN1 (5'-GCCTCTAGAGTGCTGCTGTCCCGCAAGCGC-3') and 3BamN1 (5'-CGGGATCCTTATTTAAATGCCTCTGGAATGTGGG-3').

Plasmid Name: 3XFlagNICD1

Relevant Mutation: Contains murine Notch 1 Intracellular Domain (Val-1744 to Lys-2531)

Record Creation Time: 20220422T222050+0000

Record Last Update: 20260815T081152+0000

Ratings and Alerts

No rating or validation information has been found for 3XFlagNICD1.

No alerts have been found for 3XFlagNICD1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 30 mentions in open access literature.

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

Gazdik TR, et al. (2024) Notch intracellular domains form transcriptionally active heterodimeric complexes on sequence-paired sites. Scientific reports, 14(1), 218.

Hounjet J, et al. (2023) Iron-responsive element of Divalent metal transporter 1 (Dmt1) controls Notch-mediated cell fates. The FEBS journal, 290(24), 5811.

Greenough MA, et al. (2022) Selective ferroptosis vulnerability due to familial Alzheimer's disease presenilin mutations. Cell death and differentiation, 29(11), 2123.

Bi-Lin KW, et al. (2021) Critical role of the BAF chromatin remodeling complex during murine neural crest development. PLoS genetics, 17(3), e1009446.

Shimizu S, et al. (2021) Class II phosphatidylinositol 3-kinase-C2? is essential for Notch signaling by regulating the endocytosis of ?-secretase in endothelial cells. Scientific reports, 11(1), 5199.

Liu X, et al. (2021) Notch-induced endoplasmic reticulum-associated degradation governs mouse thymocyte ?-selection. eLife, 10.

Traversi F, et al. (2021) BRAFV600E Overrides NOTCH Signaling in Thyroid Cancer. Thyroid : official journal of the American Thyroid Association, 31(5), 787.

Shi M, et al. (2021) Alcohol drinking inhibits NOTCH-PAX9 signaling in esophageal squamous epithelial cells. The Journal of pathology, 253(4), 384.

Huang H, et al. (2021) In vivo CRISPR screening reveals nutrient signaling processes underpinning CD8+ T cell fate decisions. Cell, 184(5), 1245.

Rodrigues DC, et al. (2020) Methylglyoxal couples metabolic and translational control of Notch signalling in mammalian neural stem cells. Nature communications, 11(1), 2018.

Crow JJ, et al. (2020) Notch family members follow stringent requirements for intracellular domain dimerization at sequence-paired sites. PloS one, 15(11), e0234101.

LaFoya B, et al. (2019) A comparison of resveratrol and other polyphenolic compounds on Notch activation and endothelial cell activity. PloS one, 14(1), e0210607.

Salameti V, et al. (2019) NOTCH1 signaling in oral squamous cell carcinoma via a TEL2/SERPINE1 axis. Oncotarget, 10(63), 6791.

Xu Y, et al. (2019) Icariin promotes osteogenic differentiation by suppressing Notch signaling. *European journal of pharmacology*, 865, 172794.

Wason MS, et al. (2018) Cerium Oxide Nanoparticles Sensitize Pancreatic Cancer to Radiation Therapy through Oxidative Activation of the JNK Apoptotic Pathway. *Cancers*, 10(9).

Li B, et al. (2018) The retromer complex safeguards against neural progenitor-derived tumorigenesis by regulating Notch receptor trafficking. *eLife*, 7.

Suzuki IK, et al. (2018) Human-Specific NOTCH2NL Genes Expand Cortical Neurogenesis through Delta/Notch Regulation. *Cell*, 173(6), 1370.

LaFoya B, et al. (2018) Src kinase phosphorylates Notch1 to inhibit MAML binding. *Scientific reports*, 8(1), 15515.

Kawai H, et al. (2017) Area-Specific Regulation of Quiescent Neural Stem Cells by Notch3 in the Adult Mouse Subependymal Zone. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 37(49), 11867.

Kim W, et al. (2017) Hippo signaling interactions with Wnt/ β -catenin and Notch signaling repress liver tumorigenesis. *The Journal of clinical investigation*, 127(1), 137.