

Resource Summary Report

Generated by [dkNET](#) on Aug 5, 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: 20260801T080955+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.

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

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

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.

Yamamoto M, et al. (2017) Oncogenic Determination of a Broad Spectrum of Phenotypes of Hepatocyte-Derived Mouse Liver Tumors. *The American journal of pathology*, 187(12), 2711.