

Resource Summary Report

Generated by [kravitz2](#) on Aug 5, 2026

pcDNA3-Egr1

RRID:Addgene_11729

Type: Plasmid

Proper Citation

RRID:Addgene_11729

Plasmid Information

URL: <http://www.addgene.org/11729>

Proper Citation: RRID:Addgene_11729

Insert Name: Egr-1

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:15225550](#)

Vector Backbone Description: Backbone Size:5400; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3-Egr1

Record Creation Time: 20220422T221614+0000

Record Last Update: 20260801T080047+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-Egr1.

No alerts have been found for pcDNA3-Egr1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 16 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Zerad L, et al. (2024) Overexpression of Egr1 Transcription Regulator Contributes to Schwann Cell Differentiation Defects in Neural Crest-Specific Adar1 Knockout Mice. *Cells*, 13(23).

ak M, et al. (2023) Regulation of otic neurosensory specification by Notch and Wnt signalling: insights from RNA-seq screenings in the embryonic chicken inner ear. *Frontiers in cell and developmental biology*, 11, 1245330.

Huzard D, et al. (2022) The impact of C-tactile low-threshold mechanoreceptors on affective touch and social interactions in mice. *Science advances*, 8(26), eabo7566.

Guida N, et al. (2021) GATA3 (GATA-Binding Protein 3)/KMT2A (Lysine-Methyltransferase-2A) Complex by Increasing H3K4-3me (Trimethylated Lysine-4 of Histone-3) Upregulates NCX3 (Na⁺-Ca²⁺ Exchanger 3) Transcription and Contributes to Ischemic Preconditioning Neuroprotection. *Stroke*, 52(11), 3680.

Kumar M, et al. (2020) Activating transcription factor 3 modulates the macrophage immune response to *Mycobacterium tuberculosis* infection via reciprocal regulation of inflammatory genes and lipid body formation. *Cellular microbiology*, 22(3), e13142.

Polak R, et al. (2019) Autophagy inhibition as a potential future targeted therapy for ETV6-RUNX1-driven B-cell precursor acute lymphoblastic leukemia. *Haematologica*, 104(4), 738.

Sun Z, et al. (2019) EGR1 recruits TET1 to shape the brain methylome during development and upon neuronal activity. *Nature communications*, 10(1), 3892.

Kdzioka B, et al. (2018) Transcriptional regulation of CacyBP/SIP gene and the influence of increased CacyBP/SIP level on gene expression pattern in colorectal cancer HCT116 cells. *IUBMB life*, 70(1), 50.

Minich RR, et al. (2017) Early growth response protein 1 regulates promoter activity of Ca^{2+} -plasma membrane calcium ATPase 2, a major calcium pump in the brain and auditory system. *BMC molecular biology*, 18(1), 14.

Nelo-Bazán MA, et al. (2016) Early growth response 1 (EGR-1) is a transcriptional regulator of mitochondrial carrier homolog 1 (MTCH 1)/presenilin 1-associated protein (PSAP). *Gene*, 578(1), 52.

Salotti J, et al. (2015) An Arf-Egr-C/EBP β pathway linked to ras-induced senescence and cancer. *Molecular and cellular biology*, 35(5), 866.

Wirth M, et al. (2014) MYC and EGR1 synergize to trigger tumor cell death by controlling NOXA and BIM transcription upon treatment with the proteasome inhibitor bortezomib. *Nucleic acids research*, 42(16), 10433.

Crist SA, et al. (2013) Early growth response-1 (EGR-1) and nuclear factor of activated T cells (NFAT) cooperate to mediate CD40L expression in megakaryocytes and platelets.

The Journal of biological chemistry, 288(47), 33985.

Banning A, et al. (2012) Transcriptional regulation of flotillins by the extracellularly regulated kinases and retinoid X receptor complexes. PloS one, 7(9), e45514.

Dmitriev P, et al. (2011) The Krüppel-like factor 15 as a molecular link between myogenic factors and a chromosome 4q transcriptional enhancer implicated in facioscapulohumeral dystrophy. The Journal of biological chemistry, 286(52), 44620.

Fernández-Alvarez A, et al. (2008) Reciprocal regulation of the human sterol regulatory element binding protein (SREBP)-1a promoter by Sp1 and EGR-1 transcription factors. FEBS letters, 582(2), 177.