

Resource Summary Report

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pcDNA 3.1(-) mouse C/EBP beta (LAP)

RRID:Addgene_12557

Type: Plasmid

Proper Citation

RRID:Addgene_12557

Plasmid Information

URL: <http://www.addgene.org/12557>

Proper Citation: RRID:Addgene_12557

Insert Name: CCAAT/Enhancer-binding Protein beta

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5428; Vector Backbone:pcDNA3.1(-); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: The C/EBPbeta gene encodes 3 in-frame translational isoforms (LAP*, LAP, and LIP). LAP is the predominant activating isoform expressed in most cells, and this plasmid is designed to express the LAP isoform of the protein. The construct does not include the extra 21 codons at the N terminus that are present in LAP*. The complete insert (not just the ORF) includes a Kozak box sequence at the N terminus. For more information on the C/EBPbeta isoforms, please see the original reference: Descombes, P., and Schibler, U. A liver-enriched transcriptional activator protein, LAP, and a transcriptional inhibitory protein, LIP, are translated from the same mRNA. Cell 67:569-579 (1991).

Plasmid Name: pcDNA 3.1(-) mouse C/EBP beta (LAP)

Record Creation Time: 20220422T221658+0000

Record Last Update: 20260808T080655+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA 3.1(-) mouse C/EBP beta (LAP).

No alerts have been found for pcDNA 3.1(-) mouse C/EBP beta (LAP).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Kim S, et al. (2023) IL-6 selectively suppresses cDC1 specification via C/EBP?. The Journal of experimental medicine, 220(10).

Aghanoori MR, et al. (2022) CEBP? regulation of endogenous IGF-1 in adult sensory neurons can be mobilized to overcome diabetes-induced deficits in bioenergetics and axonal outgrowth. Cellular and molecular life sciences : CMLS, 79(4), 193.

Fernandez Garcia M, et al. (2019) Structural Features of Transcription Factors Associating with Nucleosome Binding. Molecular cell, 75(5), 921.

Jensen IS, et al. (2019) The FlpTRAP system for purification of specific, endogenous chromatin regions. Analytical biochemistry, 587, 113418.

Wang W, et al. (2018) C/EBP? LIP and c-Jun synergize to regulate expression of the murine progesterone receptor. Molecular and cellular endocrinology, 477, 57.

Li W, et al. (2018) Aerobic Glycolysis Controls Myeloid-Derived Suppressor Cells and Tumor Immunity via a Specific CEBPB Isoform in Triple-Negative Breast Cancer. Cell metabolism, 28(1), 87.

Onodera Y, et al. (2017) miR-155 induces ROS generation through downregulation of antioxidation-related genes in mesenchymal stem cells. Aging cell, 16(6), 1369.

Luo X, et al. (2017) PARP-1 Controls the Adipogenic Transcriptional Program by PARylating C/EBP? and Modulating Its Transcriptional Activity. Molecular cell, 65(2), 260.

Ahluwalia TS, et al. (2017) Carriers of a VEGFA enhancer polymorphism selectively binding CHOP/DDIT3 are predisposed to increased circulating levels of thyroid-stimulating hormone. Journal of medical genetics, 54(3), 166.

Brunmeir R, et al. (2016) Comparative Transcriptomic and Epigenomic Analyses Reveal New Regulators of Murine Brown Adipogenesis. PLoS genetics, 12(12), e1006474.

Hu YJ, et al. (2015) Transcriptional and post-transcriptional control of adipocyte differentiation by Jumonji domain-containing protein 6. Nucleic acids research, 43(16),

7790.

Stürner KH, et al. (2014) A multiple sclerosis-associated variant of CBLB links genetic risk with type I IFN function. *Journal of immunology* (Baltimore, Md. : 1950), 193(9), 4439.

Liu Q, et al. (2013) Construction of a doxycycline inducible adipogenic lentiviral expression system. *Plasmid*, 69(1), 96.

Hyvönen MT, et al. (2013) Spermidine promotes adipogenesis of 3T3-L1 cells by preventing interaction of ANP32 with HuR and PP2A. *The Biochemical journal*, 453(3), 467.

Styner M, et al. (2012) Mechanical strain downregulates C/EBP β in MSC and decreases endoplasmic reticulum stress. *PloS one*, 7(12), e51613.

Wang W, et al. (2012) Cidea is an essential transcriptional coactivator regulating mammary gland secretion of milk lipids. *Nature medicine*, 18(2), 235.

Bein K, et al. (2011) JUN-CCAAT/enhancer-binding protein complexes inhibit surfactant-associated protein B promoter activity. *American journal of respiratory cell and molecular biology*, 45(2), 436.

Tsuchimochi K, et al. (2010) GADD45 β enhances Col10a1 transcription via the MTK1/MKK3/6/p38 axis and activation of C/EBP β -TAD4 in terminally differentiating chondrocytes. *The Journal of biological chemistry*, 285(11), 8395.