

Resource Summary Report

Generated by [RRID](#) on Aug 29, 2026

CA-NFAT2

RRID:Addgene_11102

Type: Plasmid

Proper Citation

RRID:Addgene_11102

Plasmid Information

URL: <http://www.addgene.org/11102>

Proper Citation: RRID:Addgene_11102

Insert Name: NFAT2

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:12355451](#)

Vector Backbone Description: Backbone Marker:Genetics Institute; Backbone Size:0; Vector Backbone:GFP-RV-DV; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Plasmid Name: CA-NFAT2

Relevant Mutation: Constitutively active: multiple serine to alanine mutations in the SRR and SPXX repeat motifs in the NFAT2 regulatory domain

Record Creation Time: 20220422T221540+0000

Record Last Update: 20260829T075126+0000

Ratings and Alerts

No rating or validation information has been found for CA-NFAT2.

No alerts have been found for CA-NFAT2.

Data and Source Information

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Jo HN, et al. (2025) The Calcium Pump ATP2B1/PMCA1 Regulates CNS Vascular Development by Facilitating Norrin- and WNT7A/B-induced Frizzled4 signaling. bioRxiv : the preprint server for biology.

Zhao Y, et al. (2024) Long noncoding RNA Malat1 protects against osteoporosis and bone metastasis. Nature communications, 15(1), 2384.

Bhingarkar A, et al. (2024) Duvelisib is a novel NFAT inhibitor that mitigates adalimumab-induced immunogenicity. Frontiers in pharmacology, 15, 1397995.

Zhao Y, et al. (2023) Long noncoding RNA Malat1 inhibits Tead3-Nfatc1-mediated osteoclastogenesis to suppress osteoporosis and bone metastasis. Research square.

Prasad H, et al. (2019) NHA2 promotes cyst development in an in vitro model of polycystic kidney disease. The Journal of physiology, 597(2), 499.

Hendrikx S, et al. (2019) Endothelial Calcineurin Signaling Restrains Metastatic Outgrowth by Regulating Bmp2. Cell reports, 26(5), 1227.

Khan O, et al. (2019) TOX transcriptionally and epigenetically programs CD8+ T cell exhaustion. Nature, 571(7764), 211.

Smith ER, et al. (2017) FGF23 activates injury-primed renal fibroblasts via FGFR4-dependent signalling and enhancement of TGF- β autoinduction. The international journal of biochemistry & cell biology, 92, 63.

Yuan X, et al. (2015) Regulators of G protein signaling 12 promotes osteoclastogenesis in bone remodeling and pathological bone loss. Cell death and differentiation, 22(12), 2046.

Makowski SL, et al. (2015) A protease-independent function for SPPL3 in NFAT activation. Molecular and cellular biology, 35(2), 451.

Levin-Gromiko U, et al. (2014) Amplified lipid rafts of malignant cells constitute a target for inhibition of aberrantly active NFAT and melanoma tumor growth by the aminobisphosphonate zoledronic acid. Carcinogenesis, 35(11), 2555.

Wilding BR, et al. (2014) FHL1 mutants that cause clinically distinct human myopathies form protein aggregates and impair myoblast differentiation. Journal of cell science, 127(Pt 10), 2269.

Muruganandan S, et al. (2013) Chemerin neutralization blocks hematopoietic stem cell osteoclastogenesis. Stem cells (Dayton, Ohio), 31(10), 2172.

GuezGuez A, et al. (2010) 3BP2 adapter protein is required for receptor activator of NF κ B ligand (RANKL)-induced osteoclast differentiation of RAW264.7 cells. The Journal of biological chemistry, 285(27), 20952.

Gajghate S, et al. (2009) Osmolarity and intracellular calcium regulate aquaporin2 expression through TonEBP in nucleus pulposus cells of the intervertebral disc. Journal of bone and mineral research : the official journal of the American Society for Bone and Mineral Research, 24(6), 992.

Norrmén C, et al. (2009) FOXC2 controls formation and maturation of lymphatic collecting vessels through cooperation with NFATc1. The Journal of cell biology, 185(3), 439.