

Resource Summary Report

Generated by [NIF](#) on Jul 30, 2026

HA-NFAT1(4-460)-GFP

RRID:Addgene_11107

Type: Plasmid

Proper Citation

RRID:Addgene_11107

Plasmid Information

URL: <http://www.addgene.org/11107>

Proper Citation: RRID:Addgene_11107

Insert Name: NFAT1

Organism: Mus musculus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:10497131](#)

Vector Backbone Description: Backbone Size:4700; Vector Backbone:pEGFP; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: HA-NFAT1(4-460)-GFP

Relevant Mutation: Contains amino acids 4-460 of NFAT1; L78P compared to WT NFAT1 (Plasmid #11100)

Record Creation Time: 20220422T221540+0000

Record Last Update: 20260725T073505+0000

Ratings and Alerts

No rating or validation information has been found for HA-NFAT1(4-460)-GFP.

No alerts have been found for HA-NFAT1(4-460)-GFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Ahmad S, et al. (2024) Specific Inhibition of Orai1-mediated Calcium Signalling Resolves Inflammation and Clears Bacteria in an Acute Respiratory Distress Syndrome Model. *American journal of respiratory and critical care medicine*, 209(6), 703.

Hammad AS, et al. (2023) STIM1 signals through NFAT1 independently of Orai1 and SOCE to regulate breast cancer cell migration. *Cell calcium*, 114, 102779.

Jiang BC, et al. (2022) NFAT1 Orchestrates Spinal Microglial Transcription and Promotes Microglial Proliferation via c-MYC Contributing to Nerve Injury-Induced Neuropathic Pain. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 9(27), e2201300.

Robitaille M, et al. (2022) ORAI1-Regulated Gene Expression in Breast Cancer Cells: Roles for STIM1 Binding, Calcium Influx and Transcription Factor Translocation. *International journal of molecular sciences*, 23(11).

Khalil C, et al. (2022) Signaling Cascade Mediating the Effect of FTY720P on the Na⁺/K⁺ ATPase in LLC-PK1. *Cellular physiology and biochemistry : international journal of experimental cellular physiology, biochemistry, and pharmacology*, 56(4), 418.

Chamberlain NB, et al. (2022) Chlamydia trachomatis suppresses host cell store-operated Ca²⁺ entry and inhibits NFAT/calcineurin signaling. *Scientific reports*, 12(1), 21406.

Emrich SM, et al. (2021) Omnitemporal choreographies of all five STIM/Orai and IP3Rs underlie the complexity of mammalian Ca²⁺ signaling. *Cell reports*, 34(9), 108760.

Liu ZZ, et al. (2021) Identification of pimavanserin tartrate as a potent Ca²⁺-calcineurin-NFAT pathway inhibitor for glioblastoma therapy. *Acta pharmacologica Sinica*, 42(11), 1860.

Marangoni F, et al. (2021) Expansion of tumor-associated Treg cells upon disruption of a CTLA-4-dependent feedback loop. *Cell*, 184(15), 3998.

Calizo RC, et al. (2020) Cell shape regulates subcellular organelle location to control early Ca²⁺ signal dynamics in vascular smooth muscle cells. *Scientific reports*, 10(1), 17866.

Courjaret R, et al. (2018) Spatially restricted subcellular Ca²⁺ signaling downstream of store-operated calcium entry encoded by a cortical tunneling mechanism. *Scientific reports*, 8(1), 11214.

Zhu ZD, et al. (2018) SOCE induced calcium overload regulates autophagy in acute pancreatitis via calcineurin activation. *Cell death & disease*, 9(2), 50.

Hodeify R, et al. (2018) The CCT chaperonin is a novel regulator of Ca²⁺ signaling through modulation of Orai1 trafficking. *Science advances*, 4(9), eaau1935.

Leoni C, et al. (2017) Dnmt3a restrains mast cell inflammatory responses. *Proceedings of the National Academy of Sciences of the United States of America*, 114(8), E1490.

Delos Santos RC, et al. (2017) Selective regulation of clathrin-mediated epidermal growth factor receptor signaling and endocytosis by phospholipase C and calcium. *Molecular biology of the cell*, 28(21), 2802.

Whiten DR, et al. (2016) Rapid flow cytometric measurement of protein inclusions and nuclear trafficking. *Scientific reports*, 6, 31138.

Cerveira J, et al. (2015) An imaging flow cytometry-based approach to measuring the spatiotemporal calcium mobilisation in activated T cells. *Journal of immunological methods*, 423, 120.

Ishii T, et al. (2015) Light generation of intracellular Ca^{2+} signals by a genetically encoded protein BACCS. *Nature communications*, 6, 8021.

Yost EA, et al. (2015) Inhibition of G-protein $\beta\gamma$ signaling enhances T cell receptor-stimulated interleukin 2 transcription in CD4^+ T helper cells. *PloS one*, 10(1), e0116575.

Tomas-Martin P, et al. (2015) Phospho-STIM1 is a downstream effector that mediates the signaling triggered by IGF-1 in HEK293 cells. *Cellular signalling*, 27(3), 545.