

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 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: 20260808T080435+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 [SPARC SAWG](#) .

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.