

Resource Summary Report

Generated by [kravitz2](#) on Aug 10, 2026

human STIM1 YFP

RRID:Addgene_19754

Type: Plasmid

Proper Citation

RRID:Addgene_19754

Plasmid Information

URL: <http://www.addgene.org/19754>

Proper Citation: RRID:Addgene_19754

Insert Name: STIM1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:16921383](#)

Vector Backbone Description: Backbone Marker:See author's map; Backbone Size:6000; Vector Backbone:MO91; Vector Types:Mammalian Expression, Retroviral; Bacterial Resistance:Ampicillin

Comments: See Author's Map for empty backbone (MO91) information.

Plasmid Name: human STIM1 YFP

Record Creation Time: 20220422T222047+0000

Record Last Update: 20260808T081355+0000

Ratings and Alerts

No rating or validation information has been found for human STIM1 YFP.

No alerts have been found for human STIM1 YFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Chhikara A, et al. (2025) Activity-dependent localization and dynamics of STIM1 and STIM2 at ER-PM contacts in hippocampal neurons. *Cell reports*, 44(10), 116290.

Zhao G, et al. (2023) A tubule-sheet continuum model for the mechanism of nuclear envelope assembly. *Developmental cell*, 58(10), 847.

Wang YS, et al. (2022) Aspirin and Sulindac act via different mechanisms to inhibit store-operated calcium channel: Implications for colorectal cancer metastasis. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 145, 112476.

Nourbakhsh K, et al. (2021) TAOK2 is an ER-localized kinase that catalyzes the dynamic tethering of ER to microtubules. *Developmental cell*, 56(24), 3321.

Muhammad Irham L, et al. (2020) Evaluation for the Genetic Association between Store-Operated Calcium Influx Pathway (STIM1 and ORAI1) and Human Hepatocellular Carcinoma in Patients with Chronic Hepatitis B Infection. *Biology*, 9(11).

Nelson ME, et al. (2019) Phosphoproteomics reveals conserved exercise-stimulated signaling and AMPK regulation of store-operated calcium entry. *The EMBO journal*, 38(24), e102578.

Yu F, et al. (2019) Remodeling of ER-plasma membrane contact sites but not STIM1 phosphorylation inhibits Ca²⁺ influx in mitosis. *Proceedings of the National Academy of Sciences of the United States of America*, 116(21), 10392.

Sabourin J, et al. (2016) Transient Receptor Potential Canonical (TRPC)/Orai1-dependent Store-operated Ca²⁺ Channels: NEW TARGETS OF ALDOSTERONE IN CARDIOMYOCYTES. *The Journal of biological chemistry*, 291(25), 13394.

Wong AY, et al. (2016) Aberrant Subcellular Dynamics of Sigma-1 Receptor Mutants Underlying Neuromuscular Diseases. *Molecular pharmacology*, 90(3), 238.

Tong BC, et al. (2016) Familial Alzheimer's disease-associated presenilin 1 mutants promote γ -secretase cleavage of STIM1 to impair store-operated Ca²⁺ entry. *Science signaling*, 9(444), ra89.

Grandclément C, et al. (2016) NK Cells Respond to Haptens by the Activation of Calcium Permeable Plasma Membrane Channels. *PloS one*, 11(3), e0151031.

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

Tsujikawa H, et al. (2015) Identification of key amino acid residues responsible for internal and external pH sensitivity of Orai1/STIM1 channels. *Scientific reports*, 5, 16747.

Jozsef L, et al. (2014) Reticulon 4 is necessary for endoplasmic reticulum tubulation, STIM1-Orai1 coupling, and store-operated calcium entry. *The Journal of biological chemistry*, 289(13), 9380.

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.

Varadarajan S, et al. (2013) Endoplasmic reticulum membrane reorganization is regulated by ionic homeostasis. *PloS one*, 8(2), e56603.

Antigny F, et al. (2013) During post-natal human myogenesis, normal myotube size requires TRPC1- and TRPC4-mediated Ca^{2+} entry. *Journal of cell science*, 126(Pt 11), 2525.

Fedida-Metula S, et al. (2012) Lipid rafts couple store-operated Ca^{2+} entry to constitutive activation of PKB/Akt in a Ca^{2+} /calmodulin-, Src- and PP2A-mediated pathway and promote melanoma tumor growth. *Carcinogenesis*, 33(4), 740.

Nagaraj S, et al. (2012) Parts-based assembly of synthetic transmembrane proteins in mammalian cells. *ACS synthetic biology*, 1(4), 111.

Darbellay B, et al. (2011) STIM1L is a new actin-binding splice variant involved in fast repetitive Ca^{2+} release. *The Journal of cell biology*, 194(2), 335.