

Resource Summary Report

Generated by [kravitz2](#) on Aug 23, 2026

pEX-CMV-SP-YFP-STM2(15-746)

RRID:Addgene_18862

Type: Plasmid

Proper Citation

RRID:Addgene_18862

Plasmid Information

URL: <http://www.addgene.org/18862>

Proper Citation: RRID:Addgene_18862

Insert Name: Stromal interaction molecule 2

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:18160041](#)

Vector Backbone Description: Backbone Size:0; Vector Backbone:Gateway destination vector; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: STIM2 also has P38L, V222I, and E575V, as described in the paper's supplemental material. These mutations do not affect function.

Plasmid Name: pEX-CMV-SP-YFP-STM2(15-746)

Relevant Mutation: YFP inserted between signal peptide(SP) of STIM1 and residues 15-746 of STIM2 (Lab plasmid WS5169)

Record Creation Time: 20220422T222043+0000

Record Last Update: 20260815T081140+0000

Ratings and Alerts

No rating or validation information has been found for pEX-CMV-SP-YFP-STM2(15-746).

No alerts have been found for pEX-CMV-SP-YFP-STM2(15-746).

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Benedetti L, et al. (2024) Periodic ER-plasma membrane junctions support long-range Ca²⁺ signal integration in dendrites. *Cell*.

Cohen HA, et al. (2023) The SOAR of STIM1 interacts with plasma membrane lipids to form ER-PM contact sites. *Cell reports*, 42(3), 112238.

Song S, et al. (2020) Notch enhances Ca²⁺ entry by activating calcium-sensing receptors and inhibiting voltage-gated K⁺ channels. *American journal of physiology. Cell physiology*, 318(5), C954.

Gibhardt CS, et al. (2020) Oxidative Stress-Induced STIM2 Cysteine Modifications Suppress Store-Operated Calcium Entry. *Cell reports*, 33(3), 108292.

Chen YF, et al. (2019) The distinct role of STIM1 and STIM2 in the regulation of store-operated Ca²⁺ entry and cellular function. *Journal of cellular physiology*, 234(6), 8727.

Emrich SM, et al. (2019) Cross-talk between N-terminal and C-terminal domains in stromal interaction molecule 2 (STIM2) determines enhanced STIM2 sensitivity. *The Journal of biological chemistry*, 294(16), 6318.

Oh MR, et al. (2017) STIM2 regulates both intracellular Ca²⁺ distribution and Ca²⁺ movement in skeletal myotubes. *Scientific reports*, 7(1), 17936.

Aeberhard L, et al. (2015) The Proteome of the Isolated Chlamydia trachomatis Containing Vacuole Reveals a Complex Trafficking Platform Enriched for Retromer Components. *PLoS pathogens*, 11(6), e1004883.

Lalonde J, et al. (2014) Store-operated calcium entry promotes the degradation of the transcription factor Sp4 in resting neurons. *Science signaling*, 7(328), ra51.

Darbellay B, et al. (2010) Human muscle economy myoblast differentiation and excitation-contraction coupling use the same molecular partners, STIM1 and STIM2. *The Journal of biological chemistry*, 285(29), 22437.