

Resource Summary Report

Generated by [PRECISE-TBI](#) on Aug 14, 2026

Cav1-mRFP

RRID:Addgene_14434

Type: Plasmid

Proper Citation

RRID:Addgene_14434

Plasmid Information

URL: <http://www.addgene.org/14434>

Proper Citation: RRID:Addgene_14434

Insert Name: Caveolin-1

Organism: Canis familiaris

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:16129785](#)

Vector Backbone Description: Backbone Size:4687; Vector Backbone:pmRFP-N1;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: Please note that the depositing laboratory recommends using CAV1-mCherry (Addgene Plasmid #27705) instead of CAV1-mRFP due to improved properties of the mCherry fluorophore.

Plasmid Name: Cav1-mRFP

Record Creation Time: 20220422T221817+0000

Record Last Update: 20260808T080920+0000

Ratings and Alerts

No rating or validation information has been found for Cav1-mRFP.

No alerts have been found for Cav1-mRFP.

Data and Source Information

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Bittel DC, et al. (2023) Early Endosomes Undergo Calcium-Trigged Exocytosis and Enable Repair of Diffuse and Focal Plasma Membrane Injury. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 10(33), e2300245.

Rangel L, et al. (2019) Caveolin-1? regulates primary cilium length by controlling RhoA GTPase activity. *Scientific reports*, 9(1), 1116.

Spencer A, et al. (2017) Nerve Growth Factor Signaling from Membrane Microdomains to the Nucleus: Differential Regulation by Caveolins. *International journal of molecular sciences*, 18(4).

He K, et al. (2015) Internalization of the TGF-? type I receptor into caveolin-1 and EEA1 double-positive early endosomes. *Cell research*, 25(6), 738.

Pulli I, et al. (2015) A novel chimeric aequorin fused with caveolin-1 reveals a sphingosine kinase 1-regulated Ca²⁺ microdomain in the caveolar compartment. *Biochimica et biophysica acta*, 1853(9), 2173.

Yu L, et al. (2015) Highly efficient method for gene delivery into mouse dorsal root ganglia neurons. *Frontiers in molecular neuroscience*, 8, 2.

Shah C, et al. (2014) Structural insights into membrane interaction and caveolar targeting of dynamin-like EHD2. *Structure (London, England : 1993)*, 22(3), 409.

Li W, et al. (2012) Caveolin-1 inhibits expression of antioxidant enzymes through direct interaction with nuclear erythroid 2 p45-related factor-2 (Nrf2). *The Journal of biological chemistry*, 287(25), 20922.

Milev MP, et al. (2010) Live cell visualization of the interactions between HIV-1 Gag and the cellular RNA-binding protein Staufen1. *Retrovirology*, 7, 41.