

Resource Summary Report

Generated by [NIF](#) on Aug 25, 2026

mCherry-Actin-C-18

RRID:Addgene_54967

Type: Plasmid

Proper Citation

RRID:Addgene_54967

Plasmid Information

URL: <http://www.addgene.org/54967>

Proper Citation: RRID:Addgene_54967

Insert Name: Actin

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:20150100](#)

Vector Backbone Description: Backbone Size:4750; Vector Backbone:mCherry-C1;
Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: . Excitation = 587; Emission = 610

Plasmid Name: mCherry-Actin-C-18

Record Creation Time: 20220422T222321+0000

Record Last Update: 20260815T081645+0000

Ratings and Alerts

No rating or validation information has been found for mCherry-Actin-C-18.

No alerts have been found for mCherry-Actin-C-18.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Pizani BF, et al. (2026) Characterization of a cofilin mutant with high actin bundling activity in living cells. bioRxiv : the preprint server for biology.

Runyan LA, et al. (2025) Human plastins are novel cytoskeletal pH sensors with a reduced F-actin bundling capacity at basic pH. bioRxiv : the preprint server for biology.

Mann N, et al. (2025) Identification of actin mutants with neurodegenerative disease-like phenotypes via mutagenesis of the actin-ATP interface. Frontiers in cellular neuroscience, 19, 1543199.

Runyan LA, et al. (2025) Human Plastins are Novel Cytoskeletal pH Sensors with a Reduced F-actin Bundling Capacity at Basic pH. Journal of molecular biology, 437(19), 169306.

Chang CY, et al. (2024) The F-actin bundler SWAP-70 promotes tumor metastasis. Life science alliance, 7(8).

Gómez-Morón Á, et al. (2024) Human T-cell receptor triggering requires inactivation of Lim kinase-1 by Slingshot-1 phosphatase. Communications biology, 7(1), 918.

Xu Y, et al. (2024) Chemical Proteomics Reveals N^ε-Fatty-Acylation of Septins by Rho Inactivation Domain (RID) of the Vibrio MARTX Toxin to Alter Septin Localization and Organization. Molecular & cellular proteomics : MCP, 23(3), 100730.

Schwebach CL, et al. (2022) Allosteric regulation controls actin-bundling properties of human plastins. Nature structural & molecular biology, 29(6), 519.

Hosseini K, et al. (2022) Skin epithelial cells change their mechanics and proliferation upon snail-mediated EMT signalling. Soft matter, 18(13), 2585.

Pearce KM, et al. (2020) G_q-mediated calcium dynamics and membrane tension modulate neurite plasticity. Molecular biology of the cell, 31(7), 683.

Hosseini K, et al. (2020) EMT-Induced Cell-Mechanical Changes Enhance Mitotic Rounding Strength. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 7(19), 2001276.

Yi T, et al. (2018) Cytocapsular tubes conduct cell translocation. Proceedings of the National Academy of Sciences of the United States of America, 115(6), E1137.