

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

Myosin-IIA-GFP

RRID:Addgene_38297

Type: Plasmid

Proper Citation

RRID:Addgene_38297

Plasmid Information

URL: <http://www.addgene.org/38297>

Proper Citation: RRID:Addgene_38297

Insert Name: Myosin II A

Organism: Mus musculus

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:19201857](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pEGFP-C1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: Myosin-IIA-GFP

Record Creation Time: 20220422T222202+0000

Record Last Update: 20260815T081421+0000

Ratings and Alerts

No rating or validation information has been found for Myosin-IIA-GFP.

No alerts have been found for Myosin-IIA-GFP.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Chen X, et al. (2024) Styxl2 regulates de novo sarcomere assembly by binding to non-muscle myosin IIs and promoting their degradation. *eLife*, 12.

Falahati H, et al. (2024) Ectopic Reconstitution of a Spine-Apparatus Like Structure Provides Insight into Mechanisms Underlying Its Formation. *bioRxiv : the preprint server for biology*.

Falahati H, et al. (2024) Ectopic reconstitution of a spine-apparatus-like structure provides insight into mechanisms underlying its formation. *Current biology : CB*.

Randriamanantsoa SJ, et al. (2024) Coexisting mechanisms of luminogenesis in pancreatic cancer-derived organoids. *iScience*, 27(7), 110299.

Amiri F, et al. (2024) Confinement controls the directional cell responses to fluid forces. *Cell reports*, 43(9), 114692.

Bedi A, et al. (2023) WAVE2 Regulates Actin-Dependent Processes Induced by the B Cell Antigen Receptor and Integrins. *Cells*, 12(23).

Falahati H, et al. (2022) Proximity proteomics of synaptopodin provides insight into the molecular composition of the spine apparatus of dendritic spines. *Proceedings of the National Academy of Sciences of the United States of America*, 119(42), e2203750119.

Peng Y, et al. (2022) Non-muscle myosin II isoforms orchestrate substrate stiffness sensing to promote cancer cell contractility and migration. *Cancer letters*, 524, 245.

Kokate SB, et al. (2022) Caldesmon controls stress fiber force-balance through dynamic cross-linking of myosin II and actin-tropomyosin filaments. *Nature communications*, 13(1), 6032.

Govendir MA, et al. (2022) T cell cytoskeletal forces shape synapse topography for targeted lysis via membrane curvature bias of perforin. *Developmental cell*, 57(18), 2237.

Tan X, et al. (2021) A protumorigenic secretory pathway activated by p53 deficiency in lung adenocarcinoma. *The Journal of clinical investigation*, 131(1).

Lehtimäki JI, et al. (2021) Generation of stress fibers through myosin-driven reorganization of the actin cortex. *eLife*, 10.

Di Cio S, et al. (2020) Contractile myosin rings and cofilin-mediated actin disassembly orchestrate ECM nanotopography sensing. *Biomaterials*, 232, 119683.

Valencia-Herrera I, et al. (2019) Molecular Properties and Evolutionary Origins of a Parvovirus-Derived Myosin Fusion Gene in Guinea Pigs. *Journal of virology*, 93(17).

Du J, et al. (2019) Compression Generated by a 3D Supracellular Actomyosin Cortex Promotes Embryonic Stem Cell Colony Growth and Expression of Nanog and Oct4. *Cell systems*, 9(2), 214.

Bolger-Munro M, et al. (2019) Arp2/3 complex-driven spatial patterning of the BCR enhances immune synapse formation, BCR signaling and B cell activation. *eLife*, 8.

Zehrer A, et al. (2018) A Fundamental Role of Myh9 for Neutrophil Migration in Innate Immunity. *Journal of immunology (Baltimore, Md. : 1950)*, 201(6), 1748.

Gavara N, et al. (2016) Relationship between cell stiffness and stress fiber amount, assessed by simultaneous atomic force microscopy and live-cell fluorescence imaging. *Biomechanics and modeling in mechanobiology*, 15(3), 511.

Osswald M, et al. (2015) Brain tumour cells interconnect to a functional and resistant network. *Nature*, 528(7580), 93.