

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

EGFPC1-hMyoX

RRID:Addgene_47608

Type: Plasmid

Proper Citation

RRID:Addgene_47608

Plasmid Information

URL: <http://www.addgene.org/47608>

Proper Citation: RRID:Addgene_47608

Insert Name: MyoX

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:17130134](#)

Vector Backbone Description: Backbone Marker:Clontech; modified as described in Rogers et al JBC 2001; Backbone Size:4700; Vector Backbone:EGFPC1; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Comments: hMyoX contains a Q680R variant compared to the NCBI reference [AAF37875.1]. The plasmid should function as described in the associated publication.

Plasmid Name: EGFPC1-hMyoX

Relevant Mutation: See depositor comments below.

Record Creation Time: 20220422T222245+0000

Record Last Update: 20260815T081542+0000

Ratings and Alerts

No rating or validation information has been found for EGFPC1-hMyoX.

No alerts have been found for EGFPC1-hMyoX.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Popovi?? A, et al. (2023) Myosin-X recruits lamellipodin to filopodia tips. Journal of cell science, 136(5).

Li LY, et al. (2023) Brain blood vessel autoantibodies in patients with NMDA and GABAA receptor encephalitis: identification of unconventional Myosin-X as target antigen. Frontiers in cellular neuroscience, 17, 1077204.

Tu Y, et al. (2022) Filopodial adhesive force in discrete nodes revealed by integrin molecular tension imaging. Current biology : CB, 32(20), 4386.

Hall ET, et al. (2021) Cytoneme delivery of Sonic Hedgehog from ligand-producing cells requires Myosin 10 and a Dispatched-BOC/CDON co-receptor complex. eLife, 10.

Leyden F, et al. (2021) Rac1 activation can generate untemplated, lamellar membrane ruffles. BMC biology, 19(1), 72.

Miihkinen M, et al. (2021) Myosin-X and talin modulate integrin activity at filopodia tips. Cell reports, 36(11), 109716.

Yoshihara M, et al. (2020) Filopodia play an important role in the trans-mesothelial migration of ovarian cancer cells. Experimental cell research, 392(2), 112011.

Masters TA, et al. (2017) Filopodia formation and endosome clustering induced by mutant plus-end-directed myosin VI. Proceedings of the National Academy of Sciences of the United States of America, 114(7), 1595.

Stanganello E, et al. (2015) Filopodia-based Wnt transport during vertebrate tissue patterning. Nature communications, 6, 5846.