

Resource Summary Report

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

pEGFP-MRLC1

RRID:Addgene_35680

Type: Plasmid

Proper Citation

RRID:Addgene_35680

Plasmid Information

URL: <http://www.addgene.org/35680>

Proper Citation: RRID:Addgene_35680

Insert Name: MRLC1

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:22136066](#)

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

Comments: This plasmid is identical to the one published in Beach et al., 2011, except the tet-inducible promoter has been replaced with a constitutive CMV promoter.

Plasmid Name: pEGFP-MRLC1

Record Creation Time: 20220422T222152+0000

Record Last Update: 20260815T081403+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-MRLC1.

No alerts have been found for pEGFP-MRLC1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 21 mentions in open access literature.

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

Ullo MF, et al. (2024) The amoeboid migration of monocytes in confining channels requires the local remodeling of the cortical actin cytoskeleton by cofilin-1. *Scientific reports*, 14(1), 10241.

Parker SS, et al. (2023) EVL and MIM/MTSS1 regulate actin cytoskeletal remodeling to promote dendritic filopodia in neurons. *The Journal of cell biology*, 222(5).

Taneja N, et al. (2021) Myosin light chain kinase-driven myosin II turnover regulates actin cortex contractility during mitosis. *Molecular biology of the cell*, 32(20), br3.

Gabbireddy SR, et al. (2021) Melanoma cells adopt features of both mesenchymal and amoeboid migration within confining channels. *Scientific reports*, 11(1), 17804.

Teo JL, et al. (2020) Src kinases relax adherens junctions between the neighbors of apoptotic cells to permit apical extrusion. *Molecular biology of the cell*, 31(23), 2557.

Priya R, et al. (2020) Tension heterogeneity directs form and fate to pattern the myocardial wall. *Nature*, 588(7836), 130.

Costa AR, et al. (2020) The membrane periodic skeleton is an actomyosin network that regulates axonal diameter and conduction. *eLife*, 9.

Budnar S, et al. (2019) Anillin Promotes Cell Contractility by Cyclic Resetting of RhoA Residence Kinetics. *Developmental cell*, 49(6), 894.

Srinivasan S, et al. (2019) Blockade of ROCK inhibits migration of human primary keratinocytes and malignant epithelial skin cells by regulating actomyosin contractility. *Scientific reports*, 9(1), 19930.

Cortes E, et al. (2019) Tamoxifen mechanically deactivates hepatic stellate cells via the G protein-coupled estrogen receptor. *Oncogene*, 38(16), 2910.

Padilla-Rodriguez M, et al. (2018) The actin cytoskeletal architecture of estrogen receptor positive breast cancer cells suppresses invasion. *Nature communications*, 9(1), 2980.

Chang F, et al. (2018) MTA promotes chemotaxis and chemokinesis of immune cells through distinct calcium-sensing receptor signaling pathways. *Biomaterials*, 150, 14.

Pavel M, et al. (2018) Contact inhibition controls cell survival and proliferation via YAP/TAZ-autophagy axis. *Nature communications*, 9(1), 2961.

Biswas A, et al. (2017) Mapping Cell Membrane Fluctuations Reveals Their Active Regulation and Transient Heterogeneities. *Biophysical journal*, 113(8), 1768.

Shirai YM, et al. (2017) Cortical actin nodes: Their dynamics and recruitment of podosomal proteins as revealed by super-resolution and single-molecule microscopy.

PloS one, 12(11), e0188778.

Chronopoulos A, et al. (2016) ATRA mechanically reprograms pancreatic stellate cells to suppress matrix remodelling and inhibit cancer cell invasion. *Nature communications*, 7, 12630.

Sundvold H, et al. (2016) Arv1 promotes cell division by recruiting IQGAP1 and myosin to the cleavage furrow. *Cell cycle (Georgetown, Tex.)*, 15(5), 628.

Lomakin AJ, et al. (2015) Competition for actin between two distinct F-actin networks defines a bistable switch for cell polarization. *Nature cell biology*, 17(11), 1435.

Wu SK, et al. (2014) Pulsatile contractility of actomyosin networks organizes the cellular cortex at lateral cadherin junctions. *European journal of cell biology*, 93(10-12), 396.

Gault WJ, et al. (2014) Osmotic surveillance mediates rapid wound closure through nucleotide release. *The Journal of cell biology*, 207(6), 767.