

# Resource Summary Report

Generated by [NIF](#) on Aug 9, 2026

## CMV-GFP-NMHC II-A

RRID:Addgene\_11347

Type: Plasmid

### Proper Citation

RRID:Addgene\_11347

### Plasmid Information

**URL:** <http://www.addgene.org/11347>

**Proper Citation:** RRID:Addgene\_11347

**Insert Name:** NMHC II-A

**Organism:** Homo sapiens

**Bacterial Resistance:** Kanamycin

**Defining Citation:** [PMID:11029059](#)

**Vector Backbone Description:** Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pEGFP-C3; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

**Comments:** NMHC II-A can be released by HindIII/SpeI digestion. Please note that the original pEGFP-C3 vector was modified so that the tetracyclin regulated promoter was replaced by a CMV promoter.

**Plasmid Name:** CMV-GFP-NMHC II-A

**Record Creation Time:** 20220422T221554+0000

**Record Last Update:** 20260808T080458+0000

### Ratings and Alerts

No rating or validation information has been found for CMV-GFP-NMHC II-A.

No alerts have been found for CMV-GFP-NMHC II-A.

### Data and Source Information

## Usage and Citation Metrics

We found 52 mentions in open access literature.

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

Utgaard ME, et al. (2026) Mechanically-induced Septin Networks Protect Nuclear Integrity. bioRxiv : the preprint server for biology.

Hoffman HK, et al. (2024) HOPS-dependent lysosomal fusion controls Rab19 availability for ciliogenesis in polarized epithelial cells. Journal of cell science, 137(5).

Keys J, et al. (2024) Rear cortex contraction aids in nuclear transit during confined migration by increasing pressure in the cell posterior. Journal of cell science, 137(12).

Wang X, et al. (2024) Talin2 binds to non-muscle myosin IIa and regulates cell attachment and fibronectin secretion. Scientific reports, 14(1), 20175.

Hoffman HK, et al. (2023) HOPS-dependent lysosomal fusion controls Rab19 availability for ciliogenesis in polarized epithelial cells. bioRxiv : the preprint server for biology.

Vitriol EA, et al. (2023) Non-muscle myosin 2 filaments are processive in cells. bioRxiv : the preprint server for biology.

Law RA, et al. (2023) Cytokinesis machinery promotes cell dissociation from collectively migrating strands in confinement. Science advances, 9(2), eabq6480.

Brito C, et al. (2023) Src-Dependent NM2A Tyrosine Phosphorylation Regulates Actomyosin Remodeling. Cells, 12(14).

Katsuta H, et al. (2023) Actin crosslinking by  $\gamma$ -actinin averts viscous dissipation of myosin force transmission in stress fibers. iScience, 26(3), 106090.

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.

Weißenbruch K, et al. (2021) Distinct roles of nonmuscle myosin II isoforms for establishing tension and elasticity during cell morphodynamics. eLife, 10.

Duan X, et al. (2021) Essential role of the endocytic site-associated protein Ecm25 in stress-induced cell elongation. Cell reports, 35(7), 109122.

Vorselen D, et al. (2021) Phagocytic 'teeth' and myosin-II 'jaw' power target constriction during phagocytosis. eLife, 10.

Tochimoto M, et al. (2020) S100A4/non-muscle myosin II signaling regulates epithelial-mesenchymal transition and stemness in uterine carcinosarcoma. Laboratory investigation; a journal of technical methods and pathology, 100(5), 682.

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

Wisniewski EO, et al. (2020) Dorsoventral polarity directs cell responses to migration track geometries. *Science advances*, 6(31), eaba6505.

Kamps D, et al. (2020) Optogenetic Tuning Reveals Rho Amplification-Dependent Dynamics of a Cell Contraction Signal Network. *Cell reports*, 33(9), 108467.

Brito C, et al. (2019) Perfringolysin O-Induced Plasma Membrane Pores Trigger Actomyosin Remodeling and Endoplasmic Reticulum Redistribution. *Toxins*, 11(7).

Zhao R, et al. (2019) Cell sensing and decision-making in confinement: The role of TRPM7 in a tug of war between hydraulic pressure and cross-sectional area. *Science advances*, 5(7), eaaw7243.

Heuzé ML, et al. (2019) Myosin II isoforms play distinct roles in adherens junction biogenesis. *eLife*, 8.