

Resource Summary Report

Generated by [RRID](#) on Aug 27, 2026

pSLIK CA MLCK

RRID:Addgene_84647

Type: Plasmid

Proper Citation

RRID:Addgene_84647

Plasmid Information

URL: <http://www.addgene.org/84647>

Proper Citation: RRID:Addgene_84647

Insert Name: MLCK

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25634210](#)

Vector Backbone Description: Backbone Marker:Iain Fraser (Addgene plasmid # 25734); Vector Backbone:pSLIK; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: The MLCK insert starts at amino acid 885 and contains D899E, D914A, N1782T, K1785R, and S1788T amino acid mutations compared to best match reference sequence (NP_444253.3).

Plasmid Name: pSLIK CA MLCK

Relevant Mutation: Constitutive Active

Record Creation Time: 20220422T222546+0000

Record Last Update: 20260815T082117+0000

Ratings and Alerts

No rating or validation information has been found for pSLIK CA MLCK.

No alerts have been found for pSLIK CA MLCK.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Fort L, et al. (2026) Actomyosin contractility is a potent suppressor of mesoderm induction by human pluripotent stem cells. The Journal of cell biology, 225(5).

Courte J, et al. (2024) Programming the elongation of mammalian cell aggregates with synthetic gene circuits. bioRxiv : the preprint server for biology.

Wang Y, et al. (2023) Atypical peripheral actin band formation via overactivation of RhoA and nonmuscle myosin II in mitofusin 2-deficient cells. eLife, 12.

Chen X, et al. (2023) The Mechanics of Tumor Cells Dictate Malignancy via Cytoskeleton-Mediated APC/Wnt/??-Catenin Signaling. Research (Washington, D.C.), 6, 0224.

Fuertes-Alvarez S, et al. (2018) p73 regulates ependymal planar cell polarity by modulating actin and microtubule cytoskeleton. Cell death & disease, 9(12), 1183.

Kassianidou E, et al. (2017) Activation of ROCK and MLCK tunes regional stress fiber formation and mechanics via preferential myosin light chain phosphorylation. Molecular biology of the cell, 28(26), 3832.