

Resource Summary Report

Generated by [RRID](#) on Aug 31, 2026

pCMV6M-Pak1 L107F

RRID:Addgene_12212

Type: Plasmid

Proper Citation

RRID:Addgene_12212

Plasmid Information

URL: <http://www.addgene.org/12212>

Proper Citation: RRID:Addgene_12212

Insert Name: Pak1

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:11719502](#)

Vector Backbone Description: Backbone Size:4900; Vector Backbone:pCMV6; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Addgene has found that this plasmid is extremely slow growing. We recommend keeping plates and liquid cultures growing for at least 20 hours. Overnight will not be sufficient. There is also an additional mutation in this plasmid - L516I. The L516I mutation, or SNP, has been present from the very beginning (~1995). The crystal structure of Pak1 uses this clone, so it is present there too. The depositor does not think it affects function in any way. Pak1 may contain a G401S mutation. Depositor states that this mutation should not affect plasmid function.

Plasmid Name: pCMV6M-Pak1 L107F

Relevant Mutation: Constitutively active Pak1: L107F

Record Creation Time: 20220422T221639+0000

Record Last Update: 20260829T075329+0000

Ratings and Alerts

No rating or validation information has been found for pCMV6M-Pak1 L107F.

No alerts have been found for pCMV6M-Pak1 L107F.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Soares AC, et al. (2021) PIKfyve activity is required for lysosomal trafficking of tau aggregates and tau seeding. The Journal of biological chemistry, 296, 100636.

Singh V, et al. (2019) Pathogenic Escherichia coli Hijacks GTPase-Activated p21-Activated Kinase for Actin Pedestal Formation. mBio, 10(4).

Roy DS, et al. (2017) Silent memory engrams as the basis for retrograde amnesia. Proceedings of the National Academy of Sciences of the United States of America, 114(46), E9972.

Kumar R, et al. (2016) A new role for cofilin in retinal neovascularization. Journal of cell science, 129(6), 1234.