

Resource Summary Report

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

Flag pLJM1 RagB 54L

RRID:Addgene_19314

Type: Plasmid

Proper Citation

RRID:Addgene_19314

Plasmid Information

URL: <http://www.addgene.org/19314>

Proper Citation: RRID:Addgene_19314

Insert Name: Ras-related GTP binding B

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:18497260](#)

Vector Backbone Description: Backbone Size:7400; Vector Backbone:pLJM1; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: pLJM1 is based on pLKO.1. pLJM1 was cut with AgeI and EcoRI and a Flag tag was cloned in. The cDNA was cloned into Flag-pLJM1 with SalI and EcoRV. The sequence across the MCS includes AgeI-Flag-SalI-gene-EcoRV-EcoRI Note from the depositor: This plasmid does not express well. This is because it is a dominant negative and therefore inhibits the mTORC1 pathway and thus cells.

Plasmid Name: Flag pLJM1 RagB 54L

Relevant Mutation: T54L

Record Creation Time: 20220422T222045+0000

Record Last Update: 20260815T081143+0000

Ratings and Alerts

No rating or validation information has been found for Flag pLJM1 RagB 54L.

No alerts have been found for Flag pLJM1 RagB 54L.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Larson CL, et al. (2019) Noncanonical Inhibition of mTORC1 by Coxiella burnetii Promotes Replication within a Phagolysosome-Like Vacuole. mBio, 10(1).

Sun X, et al. (2018) A negative feedback regulation of MTORC1 activity by the lysosomal Ca²⁺ channel MCOLN1 (mucolipin 1) using a CALM (calmodulin)-dependent mechanism. Autophagy, 14(1), 38.