

Resource Summary Report

Generated by [dkNET](#) on Sep 1, 2026

pcDNA3-FLAG-MTOR-S2215Y

RRID:Addgene_69013

Type: Plasmid

Proper Citation

RRID:Addgene_69013

Plasmid Information

URL: <http://www.addgene.org/69013>

Proper Citation: RRID:Addgene_69013

Insert Name: MTOR

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24631838](#)

Vector Backbone Description: Backbone Size:5400; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Activating mutations in MTOR were generated using site-directed mutagenesis on AddGene plasmid 26603 pcDNA3-Flag mTOR wt deposited by Jie Chen lab Vilella-Bach et al J Biol Chem. 1999 Feb 12. 274(7):4266-72.

Plasmid Name: pcDNA3-FLAG-MTOR-S2215Y

Relevant Mutation: S2215Y

Record Creation Time: 20220422T222429+0000

Record Last Update: 20260829T080921+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-FLAG-MTOR-S2215Y.

No alerts have been found for pcDNA3-FLAG-MTOR-S2215Y.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Nguyen LH, et al. (2024) The mTOR pathway genes mTOR, Rheb, Depdc5, Pten, and Tsc1 have convergent and divergent impacts on cortical neuron development and function. bioRxiv : the preprint server for biology.

Nguyen LH, et al. (2024) The mTOR pathway genes MTOR, Rheb, Depdc5, Pten, and Tsc1 have convergent and divergent impacts on cortical neuron development and function. eLife, 12.

Liu HJ, et al. (2023) mTORC1 upregulates B7-H3/CD276 to inhibit antitumor T cells and drive tumor immune evasion. Nature communications, 14(1), 1214.

Chen X, et al. (2023) The transglutaminase 2 cancer cell survival factor maintains mTOR activity to drive an aggressive cancer phenotype. Molecular carcinogenesis, 62(1), 90.

Park HR, et al. (2021) Acquired Resistance to Third-Generation EGFR Tyrosine Kinase Inhibitors in Patients With De Novo EGFR T790M-Mutant NSCLC. Journal of thoracic oncology : official publication of the International Association for the Study of Lung Cancer, 16(11), 1859.

Gremke N, et al. (2020) mTOR-mediated cancer drug resistance suppresses autophagy and generates a druggable metabolic vulnerability. Nature communications, 11(1), 4684.

Kadoya M, et al. (2019) Negative Regulation of mTOR Signaling Restricts Cell Proliferation in the Floor Plate. Frontiers in neuroscience, 13, 1022.