Resource Summary Report

Generated by NIF on Jul 29, 2026

pLKO.1-TSC2

RRID:Addgene_15478
Type: Plasmid

Proper Citation

RRID:Addgene_15478

Plasmid Information

URL: http://www.addgene.org/15478

Proper Citation: RRID:Addgene_15478

Insert Name: TSC2 shRNA

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:17277771

Vector Backbone Description: Backbone Size:7000; Vector Backbone:pLKO.1; Vector Types:Mammalian Expression, Lentiviral, RNAi; Bacterial Resistance:Ampicillin

Comments: Target sequence for human TSC2 is 5'-CACTGGCCTTGGACGGTATTG-3'.

Plasmid Name: pLKO.1-TSC2

Record Creation Time: 20220422T221848+0000

Record Last Update: 20260725T074042+0000

Ratings and Alerts

No rating or validation information has been found for pLKO.1-TSC2.

No alerts have been found for pLKO.1-TSC2.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF .

Hawsawi O, et al. (2025) Mitochondrial uncouplers inhibit oncogenic E2F1 activity and prostate cancer growth. Cell reports. Medicine, 6(1), 101890.

Fidalgo da Silva E, et al. (2023) Tuberin levels during cellular differentiation in brain development. Differentiation; research in biological diversity, 130, 43.

He B, et al. (2022) Chylomicron production is repressed by RPTOR knockdown, R-?-lipoic acid and 4-phenylbutyric acid in human enterocyte-like Caco-2 cells. The Journal of nutritional biochemistry, 108, 109087.

Kaur H, et al. (2021) Curcumin steers THP-1 cells under LPS and mTORC1 challenges toward phenotypically resting, low cytokine-producing macrophages. The Journal of nutritional biochemistry, 88, 108553.

He B, et al. (2020) R-?-Lipoic Acid and 4-Phenylbutyric Acid Have Distinct Hypolipidemic Mechanisms in Hepatic Cells. Biomedicines, 8(8).

Andrews MG, et al. (2020) mTOR signaling regulates the morphology and migration of outer radial glia in developing human cortex. eLife, 9.

Fuentes-Villalobos F, et al. (2019) DISC1 promotes translation maintenance during sodium arsenite-induced oxidative stress. Biochimica et biophysica acta. Gene regulatory mechanisms, 1862(6), 657.

Shi Q, et al. (2018) Nox4 is a Target for Tuberin Deficiency Syndrome. Scientific reports, 8(1), 3781.

Kaur H, et al. (2018) Piperine potentiates curcumin-mediated repression of mTORC1 signaling in human intestinal epithelial cells: implications for the inhibition of protein synthesis and TNF? signaling. The Journal of nutritional biochemistry, 57, 276.

Elgendy M, et al. (2017) Dual modulation of MCL-1 and mTOR determines the response to sunitinib. The Journal of clinical investigation, 127(1), 153.

Thiepold AL, et al. (2017) Mammalian target of rapamycin complex 1 activation sensitizes human glioma cells to hypoxia-induced cell death. Brain : a journal of neurology, 140(10), 2623.

Roberts JL, et al. (2016) Improvement of mTORC1-driven overproduction of apoB-containing triacylglyceride-rich lipoproteins by short-chain fatty acids, 4-phenylbutyric acid and (R)-?-lipoic acid, in human hepatocellular carcinoma cells. Biochimica et biophysica acta, 1861(3), 166.

Yang CS, et al. (2015) Fatty acid synthase inhibition engages a novel caspase-2 regulatory mechanism to induce ovarian cancer cell death. Oncogene, 34(25), 3264.

Kim EY, et al. (2014) Inhibition of mTORC1 induces loss of E-cadherin through AKT/GSK-3? signaling-mediated upregulation of E-cadherin repressor complexes in non-small cell lung cancer cells. Respiratory research, 15(1), 26.

Munkley J, et al. (2014) A novel androgen-regulated isoform of the TSC2 tumour suppressor gene increases cell proliferation. Oncotarget, 5(1), 131.