Resource Summary Report

Generated by RRID on Aug 27, 2026

pRK5-HA GST RagC 75L

RRID:Addgene_19305
Type: Plasmid

Proper Citation

RRID:Addgene_19305

Plasmid Information

URL: http://www.addgene.org/19305

Proper Citation: RRID:Addgene_19305

Insert Name: Ras-related GTP binding C

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: PMID:18497260

Vector Backbone Description: Backbone Marker:BD PharMingen; Backbone Size:4754; Vector Backbone:pRK5; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pRK5-HA GST RagC 75L

Relevant Mutation: S75L

Record Creation Time: 20220422T222045+0000

Record Last Update: 20260815T081143+0000

Ratings and Alerts

No rating or validation information has been found for pRK5-HA GST RagC 75L.

No alerts have been found for pRK5-HA GST RagC 75L.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 22 mentions in open access literature.

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

Soleimani M, et al. (2025) Transcription factor EB (TFEB) activity increases resistance of TNBC stem cells to metabolic stress. Life science alliance, 8(3).

Curnock R, et al. (2023) TFEB-dependent lysosome biogenesis is required for senescence. The EMBO journal, 42(9), e111241.

Akwa Y, et al. (2023) Stimulation of synaptic activity promotes TFEB-mediated clearance of pathological MAPT/Tau in cellular and mouse models of tauopathies. Autophagy, 19(2), 660.

Malik N, et al. (2023) Induction of lysosomal and mitochondrial biogenesis by AMPK phosphorylation of FNIP1. Science (New York, N.Y.), 380(6642), eabj5559.

Nakamura J, et al. (2023) TFEB-mediated lysosomal exocytosis alleviates high-fat diet-induced lipotoxicity in the kidney. JCI insight, 8(4).

Wróbel M, et al. (2022) ESCRT-I fuels lysosomal degradation to restrict TFEB/TFE3 signaling via the Rag-mTORC1 pathway. Life science alliance, 5(7).

Du X, et al. (2022) Nuciferine protects against high-fat diet-induced hepatic steatosis and insulin resistance via activating TFEB-mediated autophagy-lysosomal pathway. Acta pharmaceutica Sinica. B, 12(6), 2869.

Mohanasundaram P, et al. (2022) Cytoskeletal vimentin regulates cell size and autophagy through mTORC1 signaling. PLoS biology, 20(9), e3001737.

Hirst J, et al. (2021) Rag GTPases and phosphatidylinositol 3-phosphate mediate recruitment of the AP-5/SPG11/SPG15 complex. The Journal of cell biology, 220(2).

Alesi N, et al. (2021) TSC2 regulates lysosome biogenesis via a non-canonical RAGC and TFEB-dependent mechanism. Nature communications, 12(1), 4245.

Kim SH, et al. (2021) Mitochondrial Threonyl-tRNA Synthetase TARS2 Is Required for Threonine-Sensitive mTORC1 Activation. Molecular cell, 81(2), 398.

Demian WL, et al. (2019) The Ion Transporter NKCC1 Links Cell Volume to Cell Mass Regulation by Suppressing mTORC1. Cell reports, 27(6), 1886.

Ericksen RE, et al. (2019) Loss of BCAA Catabolism during Carcinogenesis Enhances mTORC1 Activity and Promotes Tumor Development and Progression. Cell metabolism, 29(5), 1151.

Jia J, et al. (2018) Galectins Control mTOR in Response to Endomembrane Damage. Molecular cell, 70(1), 120.

Pal R, et al. (2018) Src regulates amino acid-mediated mTORC1 activation by disrupting GATOR1-Rag GTPase interaction. Nature communications, 9(1), 4351.

Khayati K, et al. (2017) The amino acid metabolite homocysteine activates mTORC1 to inhibit autophagy and form abnormal proteins in human neurons and mice. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 31(2), 598.

Li RJ, et al. (2016) Regulation of mTORC1 by lysosomal calcium and calmodulin. eLife, 5.

Carroll B, et al. (2016) Control of TSC2-Rheb signaling axis by arginine regulates mTORC1 activity. eLife, 5.

van Kranenburg M, et al. (2015) Preliminary functional assessment and classification of DEPDC5 variants associated with focal epilepsy. Human mutation, 36(2), 200.

Durán RV, et al. (2013) HIF-independent role of prolyl hydroxylases in the cellular response to amino acids. Oncogene, 32(38), 4549.