

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.