

Resource Summary Report

Generated by T1D on Sep 19, 2026

B6.Cg-Rptor^{tm1.1Dmsa}/J

RRID:IMSR_JAX:013188

Type: Organism

Proper Citation

RRID:IMSR_JAX:013188

Organism Information

URL: <https://www.jax.org/strain/013188>

Proper Citation: RRID:IMSR_JAX:013188

Description: Mus musculus with name B6.Cg-Rptor^{tm1.1Dmsa}/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Rptor/J

Notes: gene symbol note: regulatory associated protein of MTOR; complex 1; mutant strain|congenic strain: Rptor

Affected Gene: regulatory associated protein of MTOR; complex 1

Genomic Alteration: targeted mutation 1.1; David M Sabatini

Catalog Number: JAX:013188

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Rptor^{tm1.1Dmsa}/J

Record Creation Time: 20250513T053724+0000

Record Last Update: 20260919T054912+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Rptor^{tm1.1Dmsa}/J.

No alerts have been found for B6.Cg-Rptor^{tm1.1Dmsa/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 29 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Godale CM, et al. (2026) Cell-Intrinsic Regulation of Epilepsy-Associated Pathology by mTORC1 and mTORC2. The Journal of neuroscience : the official journal of the Society for Neuroscience, 46(17).

Eslamizade MJ, et al. (2026) Early postsynaptic potentiation in hippocampal somatostatin interneurons is mTORC1-dependent and disrupted in Fmr1-/- mice. Neuroscience, 593, 184.

Han F, et al. (2025) Lymphatic endothelial mTORC1 instructs metabolic and developmental signaling during lymphangiogenesis. Developmental cell, 60(17), 2331.

Zhang Y, et al. (2023) Dietary fructose-mediated adipocyte metabolism drives antitumor CD8+ T cell responses. Cell metabolism, 35(12), 2107.

Liu Q, et al. (2022) IL-1 β -activated mTORC2 promotes accumulation of IFN- γ + T cells by upregulating CXCR3 to restrict hepatic fibrosis. Cell death & disease, 13(4), 289.

Zhang K, et al. (2022) mTORC1 signaling facilitates differential stem cell differentiation to shape the developing murine lung and is associated with mitochondrial capacity. Nature communications, 13(1), 7252.

Luis LB, et al. (2022) Salmonella Promotes Its Own Survival in B Cells by Inhibiting Autophagy. Cells, 11(13).

Asgarihafshejani A, et al. (2022) Long-term potentiation at pyramidal cell to somatostatin interneuron synapses controls hippocampal network plasticity and memory. iScience, 25(5), 104259.

Zhang K, et al. (2022) Acquisition of cellular properties during alveolar formation requires differential activity and distribution of mitochondria. eLife, 11.

Pelgrom LR, et al. (2022) mTORC1 signaling in antigen-presenting cells of the skin restrains CD8+ T cell priming. Cell reports, 40(1), 111032.

Godale CM, et al. (2022) Impact of Raptor and Rictor Deletion on Hippocampal Pathology Following Status Epilepticus. Journal of molecular neuroscience : MN, 72(6), 1243.

Tariq K, et al. (2022) Disruption of mTORC1 rescues neuronal overgrowth and synapse function dysregulated by Pten loss. *Cell reports*, 41(5), 111574.

Feng P, et al. (2021) The kinase PDK1 regulates regulatory T cell survival via controlling redox homeostasis. *Theranostics*, 11(19), 9503.

Araujo A, et al. (2021) IFN- γ mediates Paneth cell death via suppression of mTOR. *eLife*, 10.

Andrade ML, et al. (2021) PPAR γ -induced upregulation of subcutaneous fat adiponectin secretion, glyceroneogenesis and BCAA oxidation requires mTORC1 activity. *Biochimica et biophysica acta. Molecular and cell biology of lipids*, 1866(8), 158967.

Bai X, et al. (2021) Diurnal regulation of oxidative phosphorylation restricts hepatocyte proliferation and inflammation. *Cell reports*, 36(10), 109659.

Saucisse N, et al. (2021) Functional heterogeneity of POMC neurons relies on mTORC1 signaling. *Cell reports*, 37(2), 109800.

Sun F, et al. (2020) Hepatic DNAJB9 Drives Anabolic Biasing to Reduce Steatosis and Obesity. *Cell reports*, 30(6), 1835.

McCabe MP, et al. (2020) Genetic inactivation of mTORC1 or mTORC2 in neurons reveals distinct functions in glutamatergic synaptic transmission. *eLife*, 9.

Paoletta LM, et al. (2020) mTORC1 restrains adipocyte lipolysis to prevent systemic hyperlipidemia. *Molecular metabolism*, 32, 136.