

Resource Summary Report

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STOCK Tg(Pomc1-cre)16Lowl/J

RRID:IMSR_JAX:005965

Type: Organism

Proper Citation

RRID:IMSR_JAX:005965

Organism Information

URL: <https://www.jax.org/strain/005965>

Proper Citation: RRID:IMSR_JAX:005965

Description: Mus musculus with name STOCK Tg(Pomc1-cre)16Lowl/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 16; Bradford B Lowell||pro-opiomelanocortin-alpha; mutant stock: Tg(Pomc1-cre)16Lowl||Pomc

Affected Gene: transgene insertion 16; Bradford B Lowell||pro-opiomelanocortin-alpha

Genomic Alteration: transgene insertion 16; Bradford B Lowell

Catalog Number: JAX:005965

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Organism Name: STOCK Tg(Pomc1-cre)16Lowl/J

Ratings and Alerts

No rating or validation information has been found for STOCK Tg(Pomc1-cre)16Lowl/J.

No alerts have been found for STOCK Tg(Pomc1-cre)16Lowl/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 28 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Liu MY, et al. (2023) Prenatal stress modulates HPA axis homeostasis of offspring through dentate TERT independently of glucocorticoids receptor. *Molecular psychiatry*, 28(3), 1383.

Wang Q, et al. (2023) Regional and cell-type-specific afferent and efferent projections of the mouse claustrum. *Cell reports*, 42(2), 112118.

Li L, et al. (2023) Sample enrichment for single-nucleus sequencing using concanavalin A-conjugated magnetic beads. *STAR protocols*, 4(4), 102595.

Qi Y, et al. (2023) Agrp-negative arcuate NPY neurons drive feeding under positive energy balance via altering leptin responsiveness in POMC neurons. *Cell metabolism*, 35(6), 979.

Zanesco AM, et al. (2022) Hypothalamic CREB Regulates the Expression of Pomc-Processing Enzyme Pcsk2. *Cells*, 11(13).

Ju SH, et al. (2022) Melanocortin-4 receptors activate sympathetic preganglionic neurons and elevate blood pressure via TRPV1. *Cell reports*, 41(5), 111579.

Qiu J, et al. (2022) CRISPR/SaCas9 mutagenesis of stromal interaction molecule 1 in proopiomelanocortin neurons increases glutamatergic excitability and protects against diet-induced obesity. *Molecular metabolism*, 66, 101645.

Ma Y, et al. (2022) Neuronal miR-29a protects from obesity in adult mice. *Molecular metabolism*, 61, 101507.

Fricker LD, et al. (2021) Neuropeptidomic Analysis of a Genetically Defined Cell Type in Mouse Brain and Pituitary. *Cell chemical biology*, 28(1), 105.

Perino A, et al. (2021) Central anorexigenic actions of bile acids are mediated by TGR5. *Nature metabolism*, 3(5), 595.

Chang CC, et al. (2021) Laser Capture Microdissection of Single Neurons with Morphological Visualization Using Fluorescent Proteins Fused to Transmembrane Proteins. *eNeuro*, 8(5).

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

Lhomme T, et al. (2021) Tanycytic networks mediate energy balance by feeding lactate to glucose-insensitive POMC neurons. *The Journal of clinical investigation*, 131(18).

Barbier M, et al. (2021) Projections from the dorsomedial division of the bed nucleus of the stria terminalis to hypothalamic nuclei in the mouse. *The Journal of comparative neurology*, 529(5), 929.

Wu Z, et al. (2020) Deletion of liver kinase B1 in POMC neurons predisposes to diet-induced obesity. *Life sciences*, 258, 118204.

Reinoß P, et al. (2020) Hypothalamic Pomc Neurons Innervate the Spinal Cord and Modulate the Excitability of Premotor Circuits. *Current biology : CB*, 30(23), 4579.

Nuzzaci D, et al. (2020) Postprandial Hyperglycemia Stimulates Neuroglial Plasticity in Hypothalamic POMC Neurons after a Balanced Meal. *Cell reports*, 30(9), 3067.

Jais A, et al. (2020) PNOCARC Neurons Promote Hyperphagia and Obesity upon High-Fat-Diet Feeding. *Neuron*, 106(6), 1009.

de Araujo TM, et al. (2019) The partial inhibition of hypothalamic IRX3 exacerbates obesity. *EBioMedicine*, 39, 448.

Mazier W, et al. (2019) mTORC1 and CB1 receptor signaling regulate excitatory glutamatergic inputs onto the hypothalamic paraventricular nucleus in response to energy availability. *Molecular metabolism*, 28, 151.