

Resource Summary Report

Generated by [NIF](#) on Aug 25, 2026

STOCK Agrp^{tm1(cre)}Lowl/J

RRID:IMSR_JAX:012899

Type: Organism

Proper Citation

RRID:IMSR_JAX:012899

Organism Information

URL: <https://www.jax.org/strain/012899>

Proper Citation: RRID:IMSR_JAX:012899

Description: Mus musculus with name STOCK Agrp^{tm1(cre)}Lowl/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |agouti related neuropeptide; mutant stock: |Agrp

Affected Gene: |agouti related neuropeptide

Genomic Alteration: targeted mutation 1; Bradford B Lowell

Catalog Number: JAX:012899

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: STOCK Agrp^{tm1(cre)}Lowl/J

Record Creation Time: 20250513T053723+0000

Record Last Update: 20260815T050640+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Agrp^{tm1(cre)}Lowl/J.

No alerts have been found for STOCK Agrp^{tm1(cre)}Lowl/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 118 mentions in open access literature.

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

Manceau R, et al. (2026) Neuronal lipid droplets play a conserved and sex-biased role in maintaining whole-body energy homeostasis. *Nature metabolism*, 8(5), 1034.

Brandon AE, et al. (2026) Protein kinase C epsilon deletion in AgRP neurons modulates hypothalamic glucose sensing and improves glucose tolerance in mice. *Molecular metabolism*, 104, 102320.

Glat M, et al. (2026) AgRP neuron activity predicts and tracks the glycemic response to oral glucose. *Molecular metabolism*, 108, 102372.

Kuang D, et al. (2026) Olfactory inputs to appetite neurons in the hypothalamus. *Proceedings of the National Academy of Sciences of the United States of America*, 123(5), e2524926123.

Glat M, et al. (2026) AgRP Neuron Activity Predicts and Tracks the Glycemic Response to Oral Glucose. *bioRxiv : the preprint server for biology*.

Kim CY, et al. (2026) Protocol to design and implement scalable wireless network system for high-throughput, automated behavioral and circuit neuroscience in mice. *STAR protocols*, 7(2), 104453.

Del Río-Martín A, et al. (2026) Mitochondrial fission factor regulates mitochondrial Ca²⁺ homeostasis and neuronal activity in AgRP neurons. *Neuron*.

McKnight AD, et al. (2026) Attenuated hypothalamic response to fructose via a dedicated gut-brain pathway. *Neuron*.

Wang J, et al. (2026) Adipocyte-derived extracellular vesicles are key regulators of central leptin sensitivity and energy homeostasis. *Cell metabolism*, 38(1), 82.

Hayes NW, et al. (2026) IL-1 β engages distinct peripheral sensory circuits to suppress feeding across time. *bioRxiv : the preprint server for biology*.

Barrile F, et al. (2026) Ghrelin-induced food intake in male mice requires peripheral extrahepatic GHR signaling. *Endocrinology*, 167(2).

Tahor M, et al. (2026) Disruption of the developmental factor Otp in the adult male forebrain reveals its diverse physiological functions. *Endocrinology*, 167(4).

Walker SJ, et al. (2026) A hypothalamic circuit for anticipating future changes in energy balance. *Neuron*.

de Sousa LMM, et al. (2026) Loss of GABAergic transmission from somatostatin neurons leads to starvation, which is attenuated by a palatable diet. *Life sciences*, 398, 124455.

Casanueva Reimon L, et al. (2025) Fat sensory cues in early life program central response to food and obesity. *Nature metabolism*, 7(12), 2451.

Wang DC, et al. (2025) Distinct neural representations of hunger and thirst in neonatal mice before the emergence of food- and water-seeking behaviors. *Current biology : CB*, 35(13), 3106.

Wang T, et al. (2025) Identification of a neural basis for energy expenditure in the mouse arcuate hypothalamus. *Neuron*.

Pan L, et al. (2025) The gut-brain axis mechanism of normal appetite induced by kynurenic acid. *Cell reports*, 44(5), 115659.

Kohno D, et al. (2025) FTO promotes weight gain via altering Kif1a splicing and axonal vesicle trafficking in AgRP neurons. *The EMBO journal*, 44(18), 4919.

Mendoza-Romero HN, et al. (2025) Microglia are required for developmental specification of AgRP innervation in the hypothalamus of offspring exposed to maternal high-fat diet during lactation. *eLife*, 13.