

Resource Summary Report

Generated by SPARC SAWG on Sep 5, 2026

B6.FVB-Tg(Npy-hrGFP)1Lowl/J

RRID:IMSR_JAX:006417

Type: Organism

Proper Citation

RRID:IMSR_JAX:006417

Organism Information

URL: <https://www.jax.org/strain/006417>

Proper Citation: RRID:IMSR_JAX:006417

Description: Mus musculus with name B6.FVB-Tg(Npy-hrGFP)1Lowl/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: neuropeptide Y|transgene insertion 1; Bradford B Lowell|; mutant strain|congenic strain: Npy|Tg(Npy-hrGFP)1Lowl|

Affected Gene: neuropeptide Y|transgene insertion 1; Bradford B Lowell|

Genomic Alteration: transgene insertion 1; Bradford B Lowell

Catalog Number: JAX:006417

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.FVB-Tg(Npy-hrGFP)1Lowl/J

Record Creation Time: 20250513T053656+0000

Record Last Update: 20260905T044440+0000

Ratings and Alerts

No rating or validation information has been found for B6.FVB-Tg(Npy-hrGFP)1Lowl/J.

No alerts have been found for B6.FVB-Tg(Npy-hrGFP)1Lowl/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 63 mentions in open access literature.

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

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

Neri D, et al. (2026) Distinct sympathetic projections to brown fat regulate thermogenesis and glucose tolerance. *Nature metabolism*, 8(2), 313.

D'Alessio A, et al. (2026) Neurometabolic adaptations to intestinal inflammation in a mouse model of colitis. *American journal of physiology. Gastrointestinal and liver physiology*, 330(2), G98.

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.

Li H, et al. (2025) An alternative neural basis underlying leptin resistance. *Cell reports*, 44(7), 115863.

Payant MA, et al. (2025) Fructose-induced synaptic and neuronal adaptations at neuropeptide Y/agouti-related peptide neurons. *Molecular metabolism*, 99, 102209.

Douglass AM, et al. (2025) Acute and circadian feedforward regulation of agouti-related peptide hunger neurons. *Cell metabolism*, 37(3), 708.

Martinez de Morentin PB, et al. (2024) A brainstem to hypothalamic arcuate nucleus GABAergic circuit drives feeding. *Current biology : CB*.

Zhai S, et al. (2024) Ca²⁺-dependent phosphodiesterase 1 regulates the plasticity of striatal spiny projection neuron glutamatergic synapses. *Cell reports*, 43(8), 114540.

Leeson-Payne A, et al. (2024) Loss of GPR75 protects against non-alcoholic fatty liver disease and body fat accumulation. *Cell metabolism*, 36(5), 1076.

Manceau R, et al. (2024) Neuronal lipid droplets play a conserved and sex-biased role in maintaining whole-body energy homeostasis. *bioRxiv : the preprint server for biology*.

Sayar-Atasoy N, et al. (2024) Opioidergic signaling contributes to food-mediated suppression of AgRP neurons. *Cell reports*, 43(1), 113630.

Guan D, et al. (2024) Central inhibition of HDAC6 re-sensitizes leptin signaling during obesity to induce profound weight loss. *Cell metabolism*, 36(4), 857.

Hanscom M, et al. (2024) Innervation of adipocytes is limited in mouse perivascular adipose tissue. *American journal of physiology. Heart and circulatory physiology*, 327(1), H155.

Nong Y, et al. (2023) UBE3A and transsynaptic complex NRXN1-CBLN1-GluD1 in a hypothalamic VMHvl-arcuate feedback circuit regulates aggression. *bioRxiv : the preprint server for biology*.

Ousey J, et al. (2023) Gut microbiota suppress feeding induced by palatable foods. *Current biology : CB*, 33(1), 147.

Grzelka K, et al. (2023) A synaptic amplifier of hunger for regaining body weight in the hypothalamus. *Cell metabolism*, 35(5), 770.

Cai J, et al. (2023) AgRP neurons are not indispensable for body weight maintenance in adult mice. *Cell reports*, 42(7), 112789.

Kondabolu K, et al. (2023) A Selective Projection from the Subthalamic Nucleus to Parvalbumin-Expressing Interneurons of the Striatum. *eNeuro*, 10(7).

Frank MM, et al. (2023) Experience-dependent flexibility in a molecularly diverse central-to-peripheral auditory feedback system. *eLife*, 12.