# Resource Summary Report

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## 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

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**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:** 20260725T044408+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 61 mentions in open access literature.

**Listed below are recent publications.** The full list is available at nidm-terms .


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.

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.

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.

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.

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

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

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.

Reichenbach A, et al. (2022) Metabolic sensing in AgRP neurons integrates homeostatic state with dopamine signalling in the striatum. eLife, 11.

Gaziano I, et al. (2022) Dopamine-inhibited POMCDrd2+ neurons in the ARC acutely regulate feeding and body temperature. JCI insight, 7(21).