

Resource Summary Report

Generated by [NIF](#) on Sep 15, 2026

FVB-Tg(Pomc1-hrGFP)1Lowl/J

RRID:IMSR_JAX:006421

Type: Organism

Proper Citation

RRID:IMSR_JAX:006421

Organism Information

URL: <https://www.jax.org/strain/006421>

Proper Citation: RRID:IMSR_JAX:006421

Description: Mus musculus with name FVB-Tg(Pomc1-hrGFP)1Lowl/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |pro-opiomelanocortin-alpha|transgene insertion 1; Bradford B Lowell; coisogenic strain|mutant strain: |Pomc|Tg(Pomc1-hrGFP)1Lowl

Affected Gene: |pro-opiomelanocortin-alpha|transgene insertion 1; Bradford B Lowell

Genomic Alteration: transgene insertion 1; Bradford B Lowell

Catalog Number: JAX:006421

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: FVB-Tg(Pomc1-hrGFP)1Lowl/J

Record Creation Time: 20250513T053656+0000

Record Last Update: 20260912T060442+0000

Ratings and Alerts

No rating or validation information has been found for FVB-Tg(Pomc1-hrGFP)1Lowl/J.

No alerts have been found for FVB-Tg(Pomc1-hrGFP)1Lowl/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Tsang AH, et al. (2026) Cav3.1 is a neuronal leucine sensor that mediates satiety and weight loss in response to dietary protein. Cell metabolism, 38(5), 876.

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

He Z, et al. (2019) Acute effects of zinc and insulin on arcuate anorexigenic proopiomelanocortin neurons. British journal of pharmacology, 176(5), 725.

Vinnikov IA, et al. (2014) Hypothalamic miR-103 protects from hyperphagic obesity in mice. The Journal of neuroscience : the official journal of the Society for Neuroscience, 34(32), 10659.