

Resource Summary Report

Generated by [kravitz2](#) on Aug 1, 2026

B6.Cg-Tg(Hlxb9-GFP)1Tmj/J

RRID:IMSR_JAX:005029

Type: Organism

Proper Citation

RRID:IMSR_JAX:005029

Organism Information

URL: <https://www.jax.org/strain/005029>

Proper Citation: RRID:IMSR_JAX:005029

Description: Mus musculus with name B6.Cg-Tg(Hlxb9-GFP)1Tmj/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: [transgene insertion 1; Thomas M Jessell|motor neuron and pancreas homeobox 1; mutant strain|congenic strain: [Tg(Hlxb9-GFP)1Tmj|Mnx1

Affected Gene: [transgene insertion 1; Thomas M Jessell|motor neuron and pancreas homeobox 1

Genomic Alteration: transgene insertion 1; Thomas M Jessell

Catalog Number: JAX:005029

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: B6.Cg-Tg(Hlxb9-GFP)1Tmj/J

Record Creation Time: 20250513T053647+0000

Record Last Update: 20260725T044357+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Hlxb9-GFP)1Tmj/J.

No alerts have been found for B6.Cg-Tg(Hlxb9-GFP)1Tmj/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 39 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Wang NB, et al. (2025) Compact transcription factor cassettes generate functional, engraftable motor neurons by direct conversion. *Cell systems*, 16(4), 101206.

Wang NB, et al. (2025) Proliferation history and transcription factor levels drive direct conversion to motor neurons. *Cell systems*, 16(4), 101205.

Lende-Dorn BA, et al. (2025) Chemogenetic tuning reveals optimal MAPK signaling for cell-fate programming. *Cell reports*, 44(9), 116226.

Olguin AGR, et al. (2025) Cadherin 4 assembles a family of color-preferring retinal circuits that respond to light offset. *Current biology : CB*, 35(6), 1298.

Bistrong K, et al. (2025) Activity-dependent development of synaptic circuits mediates direction selectivity in an axis-specific manner. *Cell reports*, 44(7), 115897.

Zhang H, et al. (2025) Widespread innervation of motoneurons by spinal V3 neurons globally amplifies locomotor output in mice. *Cell reports*, 44(1), 115212.

Nimkar K, et al. (2025) Molecular and spatial analysis of ganglion cells on retinal flatmounts identifies perivascular neurons resilient to glaucoma. *Neuron*.

Smith CC, et al. (2024) Kv2 channels do not function as canonical delayed rectifiers in spinal motoneurons. *iScience*, 27(8), 110444.

Toma K, et al. (2024) Perivascular neurons instruct 3D vascular lattice formation via neurovascular contact. *Cell*, 187(11), 2767.

Zhang H, et al. (2024) Widespread innervation of motoneurons by spinal V3 neurons globally amplifies locomotor output in mice. *bioRxiv : the preprint server for biology*.

Gauberg J, et al. (2024) Spinal motor neuron development and metabolism are transcriptionally regulated by Nuclear Factor IA. *bioRxiv : the preprint server for biology*.

Lindblad C, et al. (2023) Stem cell-derived brainstem mouse astrocytes obtain a neurotoxic phenotype in vitro upon neuroinflammation. *Journal of inflammation (London, England)*, 20(1), 22.

Thomassen PB, et al. (2023) SorCS2 binds progranulin to regulate motor neuron development. *Cell reports*, 42(11), 113333.

Zanganeh PF, et al. (2022) γ -Amino-3-hydroxyl-5-methyl-4-isoxazole-propionate receptor and RNA processing gene dysregulation are early determinants of selective motor neuron vulnerability in a mouse model of amyotrophic lateral sclerosis. *Brain communications*, 4(2), fcac081.

LaForce GR, et al. (2022) Suppression of premature transcription termination leads to reduced mRNA isoform diversity and neurodegeneration. *Neuron*, 110(8), 1340.

Tiriac A, et al. (2022) The influence of spontaneous and visual activity on the development of direction selectivity maps in mouse retina. *Cell reports*, 38(2), 110225.

Monaghan CE, et al. (2021) The Clp1 R140H mutation alters tRNA metabolism and mRNA 3' processing in mouse models of pontocerebellar hypoplasia. *Proceedings of the National Academy of Sciences of the United States of America*, 118(39).

Birsa N, et al. (2021) FUS-ALS mutants alter FMRP phase separation equilibrium and impair protein translation. *Science advances*, 7(30).

Jeffet J, et al. (2021) Multimodal single-molecule microscopy with continuously controlled spectral resolution. *Biophysical reports*, 1(1), 100013.

Chang SH, et al. (2021) MicroRNAs mediate precise control of spinal interneuron populations to exert delicate sensory-to-motor outputs. *eLife*, 10.