

Resource Summary Report

Generated by [NIF](#) on Sep 7, 2026

B6.Cg-Tg(Myh11-cre.-EGFP)2Mik/J

RRID:IMSR_JAX:007742

Type: Organism

Proper Citation

RRID:IMSR_JAX:007742

Organism Information

URL: <https://www.jax.org/strain/007742>

Proper Citation: RRID:IMSR_JAX:007742

Description: Mus musculus with name B6.Cg-Tg(Myh11-cre.-EGFP)2Mik/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |transgene insertion 2; Michael I Kotlikoff|myosin; heavy polypeptide 11; smooth muscle; mutant strain: |Tg(Myh11-cre;-EGFP)2Mik|Myh11

Affected Gene: |transgene insertion 2; Michael I Kotlikoff|myosin; heavy polypeptide 11; smooth muscle

Genomic Alteration: transgene insertion 2; Michael I Kotlikoff

Catalog Number: JAX:007742

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(Myh11-cre.-EGFP)2Mik/J

Record Creation Time: 20250513T053703+0000

Record Last Update: 20260905T044447+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(Myh11-cre.-EGFP)2Mik/J.

No alerts have been found for B6.Cg-Tg(Myh11-cre.-EGFP)2Mik/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Rahman AA, et al. (2026) Structural and functional gastrointestinal abnormalities in ACTA2 R179H mice modeling multisystemic smooth muscle dysfunction syndrome. JCI insight, 11(4).

Scharpf BR, et al. (2025) Prostatic Escherichia coli infection drives CCR2-dependent recruitment of fibrocytes and collagen production. Disease models & mechanisms, 18(1).

Ni Bhraonain EP, et al. (2024) Immunohistochemical characterization of interstitial cells and their spatial relationship to motor neurons within the mouse esophagus. Cell and tissue research.

Ni Bhraonain E, et al. (2024) Immunohistochemical characterization of interstitial cells and their relationship to motor neurons within the mouse esophagus. Research square.

Goodwin K, et al. (2023) Analysis of Cre lines for targeting embryonic airway smooth muscle. Developmental biology, 496, 63.

Kurahashi M, et al. (2022) PDGFR α ⁺ Interstitial Cells are Effector Cells of PACAP Signaling in Mouse and Human Colon. Cellular and molecular gastroenterology and hepatology, 14(2), 357.

Wang R, et al. (2022) Abi1 mediates airway smooth muscle cell proliferation and airway remodeling via Jak2/STAT3 signaling. iScience, 25(2), 103833.

Angueira AR, et al. (2021) Defining the lineage of thermogenic perivascular adipose tissue. Nature metabolism, 3(4), 469.

Turco AE, et al. (2021) A mechanism linking perinatal 2,3,7,8 tetrachlorodibenzo-p-dioxin exposure to lower urinary tract dysfunction in adulthood. Disease models & mechanisms, 14(7).

van Veluw SJ, et al. (2020) Vasomotion as a Driving Force for Paravascular Clearance in the Awake Mouse Brain. Neuron, 105(3), 549.

Cleary CM, et al. (2020) Vascular control of the CO₂/H⁺-dependent drive to breathe. eLife, 9.

Rezay AC, et al. (2019) Plk1 Mediates Paxillin Phosphorylation (Ser-272), Centrosome Maturation, and Airway Smooth Muscle Layer Thickening in Allergic Asthma. *Scientific reports*, 9(1), 7555.

Wang Q, et al. (2017) Synergistic Signaling by Light and Acetylcholine in Mouse Iris Sphincter Muscle. *Current biology : CB*, 27(12), 1791.

Malhotra D, et al. (2016) Tolerance is established in polyclonal CD4(+) T cells by distinct mechanisms, according to self-peptide expression patterns. *Nature immunology*, 17(2), 187.