

Resource Summary Report

Generated by [NIF](#) on Aug 13, 2026

B6;129-Pax7^{tm2.1}(cre/ERT2)Fan/J

RRID:IMSR_JAX:012476

Type: Organism

Proper Citation

RRID:IMSR_JAX:012476

Organism Information

URL: <https://www.jax.org/strain/012476>

Proper Citation: RRID:IMSR_JAX:012476

Description: Mus musculus with name B6;129-Pax7^{tm2.1}(cre/ERT2)Fan/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: |paired box 7|Cre recombinase and estrogen receptor 1 (human) fusion gene; mutant stock: |Pax7|cre/ERT2

Affected Gene: |paired box 7|Cre recombinase and estrogen receptor 1 (human) fusion gene

Genomic Alteration: targeted mutation 2.1; Chen-Ming Fan

Catalog Number: JAX:012476

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129-Pax7^{tm2.1}(cre/ERT2)Fan/J

Record Creation Time: 20250513T053721+0000

Record Last Update: 20260808T050926+0000

Ratings and Alerts

No rating or validation information has been found for B6;129-Pax7^{tm2.1}(cre/ERT2)Fan/J.

No alerts have been found for B6;129-Pax7^{tm2.1}(cre/ERT2)Fan/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Gu L, et al. (2026) Chondrolectin regulates the sublamina localization and regenerative function of muscle satellite cells in mice. *iScience*, 29(5), 115703.

Yue F, et al. (2025) Mitochondrial fatty acid oxidation regulates adult muscle stem cell function through modulating metabolic flux and protein acetylation. *The EMBO journal*, 44(9), 2566.

Kneppers A, et al. (2023) AMPK β 2 is a skeletal muscle stem cell intrinsic regulator of myonuclear accretion. *iScience*, 26(12), 108343.

Sakai H, et al. (2022) Uhrf1 governs the proliferation and differentiation of muscle satellite cells. *iScience*, 25(3), 103928.

Yue F, et al. (2022) Lipid droplet dynamics regulate adult muscle stem cell fate. *Cell reports*, 38(3), 110267.

Kaneshige A, et al. (2022) Detection of muscle stem cell-derived myonuclei in murine overloaded muscles. *STAR protocols*, 3(2), 101307.

Kaneshige A, et al. (2022) Relayed signaling between mesenchymal progenitors and muscle stem cells ensures adaptive stem cell response to increased mechanical load. *Cell stem cell*, 29(2), 265.

Jia Z, et al. (2019) A requirement of Polo-like kinase 1 in murine embryonic myogenesis and adult muscle regeneration. *eLife*, 8.

Zhang L, et al. (2019) The CalcR-PKA-Yap1 Axis Is Critical for Maintaining Quiescence in Muscle Stem Cells. *Cell reports*, 29(8), 2154.

Fukuda S, et al. (2019) Sustained expression of HeyL is critical for the proliferation of muscle stem cells in overloaded muscle. *eLife*, 8.

Alonso-Martin S, et al. (2018) SOXF factors regulate murine satellite cell self-renewal and function through inhibition of β -catenin activity. *eLife*, 7.

Parajuli P, et al. (2018) Twist1 Activation in Muscle Progenitor Cells Causes Muscle Loss Akin to Cancer Cachexia. *Developmental cell*, 45(6), 712.

Mademtzoglou D, et al. (2018) Cellular localization of the cell cycle inhibitor Cdkn1c controls growth arrest of adult skeletal muscle stem cells. *eLife*, 7.

Judson RN, et al. (2018) Inhibition of Methyltransferase Setd7 Allows the In Vitro Expansion of Myogenic Stem Cells with Improved Therapeutic Potential. *Cell stem cell*, 22(2), 177.

An Y, et al. (2017) A Molecular Switch Regulating Cell Fate Choice between Muscle Progenitor Cells and Brown Adipocytes. *Developmental cell*, 41(4), 382.

Xiong G, et al. (2017) The PERK arm of the unfolded protein response regulates satellite cell-mediated skeletal muscle regeneration. *eLife*, 6.

Ogura Y, et al. (2015) TAK1 modulates satellite stem cell homeostasis and skeletal muscle repair. *Nature communications*, 6, 10123.