

# Resource Summary Report

Generated by T1D on Sep 20, 2026

## B6;129-Pax7<sup>tm2.1</sup>(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<sup>tm2.1</sup>(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<sup>tm2.1</sup>(cre/ERT2)Fan/J

**Record Creation Time:** 20250513T053721+0000

**Record Last Update:** 20260919T054908+0000

### Ratings and Alerts

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

No alerts have been found for B6;129-Pax7<sup>tm2.1</sup>(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 [T1D](#).

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 $\beta$ 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.

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

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

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  $\beta$ -catenin activity. *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.

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

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

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.