Resource Summary Report

Generated by RRID on Jul 30, 2026

B6.Cg-Pax7$^{tm1(cre/ERT2)Gaka}$/J

RRID:IMSR_JAX:017763
Type: Organism

Proper Citation

RRID:IMSR_JAX:017763

Organism Information

URL: https://www.jax.org/strain/017763

Proper Citation: RRID:IMSR_JAX:017763

Description: Mus musculus with name B6.Cg-Pax7$^{tm1(cre/ERT2)Gaka}$/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S-Pax7/J

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

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

Genomic Alteration: targeted mutation 1; Gabrielle Kardon

Catalog Number: JAX:017763

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Pax7$^{tm1(cre/ERT2)Gaka}$/J

Record Creation Time: 20250513T053734+0000

Record Last Update: 20260725T044443+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Pax7$^{tm1(cre/ERT2)Gaka}$/J.

No alerts have been found for B6.Cg-Pax7$^{tm1(cre/ERT2)Gaka}$/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 37 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

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.

Wang YX, et al. (2025) Multiomic profiling reveals that prostaglandin E2 reverses aged muscle stem cell dysfunction, leading to increased regeneration and strength. Cell stem cell, 32(7), 1154.

Gadek KE, et al. (2025) Transdifferentiation of endothelial progenitor cells into rhabdomyosarcoma defined by hedgehog signaling competence. Cell reports, 44(10), 116339.

Soro-Arnáiz I, et al. (2024) GLUD1 determines murine muscle stem cell fate by controlling mitochondrial glutamate levels. Developmental cell, 59(21), 2850.

Garcia P, et al. (2024) Setdb1 protects genome integrity in murine muscle stem cells to allow for regenerative myogenesis and inflammation. Developmental cell, 59(17), 2375.

Collins BC, et al. (2024) Three-dimensional imaging studies in mice identify cellular dynamics of skeletal muscle regeneration. Developmental cell, 59(11), 1457.

Liang J, et al. (2024) A brainstem circuit amplifies aversion. Neuron, 112(21), 3634.

Fang Y, et al. (2024) The Mediator Med23 controls a transcriptional switch for muscle stem cell proliferation and differentiation in muscle regeneration. Cell reports, 43(5), 114177.

Verma M, et al. (2024) Endothelial cell signature in muscle stem cells validated by VEGFA-FLT1-AKT1 axis promoting survival of muscle stem cell. eLife, 13.

Abbas H, et al. (2023) Muscle progenitor cells are required for skeletal muscle regeneration and prevention of adipogenesis after limb ischemia. Frontiers in cardiovascular medicine, 10, 1118738.

Zengel J, et al. (2023) Hardwiring tissue-specific AAV transduction in mice through engineered receptor expression. Nature methods, 20(7), 1070.

Feng X, et al. (2023) Polycomb Ezh1 maintains murine muscle stem cell quiescence through non-canonical regulation of Notch signaling. Developmental cell, 58(12), 1052.

Domenig SA, et al. (2022) CRISPR/Cas9 editing of directly reprogrammed myogenic progenitors restores dystrophin expression in a mouse model of muscular dystrophy. Stem cell reports, 17(2), 321.

Tseng HW, et al. (2022) Spinal cord injury reprograms muscle fibroadipogenic progenitors to form heterotopic bones within muscles. Bone research, 10(1), 22.

Chen WJ, et al. (2022) Ribonucleotide reductase M2B in the myofibers modulates stem cell fate in skeletal muscle. NPJ Regenerative medicine, 7(1), 37.

Sefton EM, et al. (2022) Fibroblast-derived Hgf controls recruitment and expansion of muscle during morphogenesis of the mammalian diaphragm. eLife, 11.

Sénéchal C, et al. (2022) The adhesion G-protein-coupled receptor Gpr116 is essential to maintain the skeletal muscle stem cell pool. Cell reports, 41(7), 111645.

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

Chen J, et al. (2022) Labeling and analyzing lipid droplets in mouse muscle stem cells. STAR protocols, 3(4), 101849.

Baker N, et al. (2022) The mitochondrial protein OPA1 regulates the quiescent state of adult muscle stem cells. Cell stem cell, 29(9), 1315.