

Resource Summary Report

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B6.FVB(129S4)-Tg(Ckmm-cre)5Khn/J

RRID:IMSR_JAX:006475

Type: Organism

Proper Citation

RRID:IMSR_JAX:006475

Organism Information

URL: <https://www.jax.org/strain/006475>

Proper Citation: RRID:IMSR_JAX:006475

Description: Mus musculus with name B6.FVB(129S4)-Tg(Ckmm-cre)5Khn/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: transgene insertion 5; C Ronald Kahn|creatine kinase; muscle|; mutant strain|congenic strain: Tg(Ckmm-cre)5Khn|Ckm|

Affected Gene: transgene insertion 5; C Ronald Kahn|creatine kinase; muscle|

Genomic Alteration: transgene insertion 5; C Ronald Kahn

Catalog Number: JAX:006475

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.FVB(129S4)-Tg(Ckmm-cre)5Khn/J

Record Creation Time: 20250513T053657+0000

Record Last Update: 20260815T050606+0000

Ratings and Alerts

No rating or validation information has been found for B6.FVB(129S4)-Tg(Ckmm-cre)5Khn/J.

No alerts have been found for B6.FVB(129S4)-Tg(Ckmm-cre)5Khn/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 58 mentions in open access literature.

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

Lan H, et al. (2026) Regenerating myofiber with activating of TGF- β signaling contributes to macrophage efferocytosis through enhancing Tregs response in inflamed muscle. *Frontiers in immunology*, 17, 1810106.

de Souza Leite F, et al. (2025) Muscle-specific increased expression of JAG1 improves the skeletal muscle phenotype in dystrophin-deficient mice. *Proceedings of the National Academy of Sciences of the United States of America*, 122(39), e2506437122.

Li AH, et al. (2025) Systemic Glucose Homeostasis Requires Pancreatic but Not Neuronal ATP-sensitive Potassium Channels. *Function (Oxford, England)*, 6(1).

Su Y, et al. (2025) CD47-blocking antibody confers metabolic benefits against obesity. *Cell reports. Medicine*, 6(5), 102089.

de Souza Leite F, et al. (2025) Muscle-specific increased expression of JAG1 improves skeletal muscle phenotype in dystrophin-deficient mice. *bioRxiv : the preprint server for biology*.

Yee RSZ, et al. (2025) Phosphorylation of RYR1 at Ser2902 decreases Ca²⁺ leak in skeletal muscle and susceptibility to malignant hyperthermia and heat stroke. *Science signaling*, 18(907), eadx3087.

Feng F, et al. (2024) Aerobic Exercise Protects against Cardiotoxin-Induced Skeletal Muscle Injury in a DDAH1-Dependent Manner. *Antioxidants (Basel, Switzerland)*, 13(9).

Joshi AS, et al. (2024) Single-nucleus transcriptomic analysis reveals the regulatory circuitry of myofiber XBP1 during regenerative myogenesis. *iScience*, 27(12), 111372.

Xiao J, et al. (2023) IRE1 β arm of unfolded protein response in muscle-specific TGF- β signaling-mediated regulation of muscle cell immunological properties. *Cellular & molecular biology letters*, 28(1), 15.

Xu H, et al. (2023) 20(S)-ginsenoside Rg3 exerts anti-fibrotic effect after myocardial infarction by alleviation of fibroblasts proliferation and collagen deposition through TGFBR1 signaling pathways. *Journal of ginseng research*, 47(6), 743.

Feng F, et al. (2023) DDAH1 Protects against Cardiotoxin-Induced Muscle Injury and Regeneration. *Antioxidants* (Basel, Switzerland), 12(9).

He X, et al. (2022) Cardiac CIP protein regulates dystrophic cardiomyopathy. *Molecular therapy : the journal of the American Society of Gene Therapy*, 30(2), 898.

Li Q, et al. (2022) Dynamin-2 reduction rescues the skeletal myopathy of a SPEG-deficient mouse model. *JCI insight*, 7(15).

Orengo JP, et al. (2022) Reduction of mutant ATXN1 rescues premature death in a conditional SCA1 mouse model. *JCI insight*, 7(8).

McMillin SL, et al. (2022) Muscle-Specific Ablation of Glucose Transporter 1 (GLUT1) Does Not Impair Basal or Overload-Stimulated Skeletal Muscle Glucose Uptake. *Biomolecules*, 12(12).

Ranu N, et al. (2022) NEB mutations disrupt the super-relaxed state of myosin and remodel the muscle metabolic proteome in nemaline myopathy. *Acta neuropathologica communications*, 10(1), 185.

Gao S, et al. (2022) UBR2 targets myosin heavy chain IIb and IIx for degradation: Molecular mechanism essential for cancer-induced muscle wasting. *Proceedings of the National Academy of Sciences of the United States of America*, 119(43), e2200215119.

Valussi M, et al. (2021) Repression of Osmr and Fgfr1 by miR-1/133a prevents cardiomyocyte dedifferentiation and cell cycle entry in the adult heart. *Science advances*, 7(42), eabi6648.

Iwabu M, et al. (2021) AdipoR agonist increases insulin sensitivity and exercise endurance in AdipoR-humanized mice. *Communications biology*, 4(1), 45.

Xirouchaki CE, et al. (2021) Skeletal muscle NOX4 is required for adaptive responses that prevent insulin resistance. *Science advances*, 7(51), eabl4988.