Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 14, 2025

B6.FVB-Tg(Myh6-cre)2182Mds/J

RRID:IMSR_JAX:011038
Type: Organism

Proper Citation

RRID:IMSR_JAX:011038

Organism Information

URL: https://www.jax.org/strain/011038

Proper Citation: RRID:IMSR_JAX:011038

Description: Mus musculus with name B6.FVB-Tg(Myh6-cre)2182Mds/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: myosin; heavy polypeptide 6; cardiac muscle; alpha||transgene insertion 2182; Michael D Schneider|myosin; heavy polypeptide 6; cardiac muscle; alpha||transgene insertion 2182; Michael D Schneider; mutant strain: Myh6||Tg(Myh6-cre)2182Mds|Myh6||Tg(Myh6-cre)2182Mds

Affected Gene: myosin; heavy polypeptide 6; cardiac muscle; alpha||transgene insertion 2182; Michael D Schneider|myosin; heavy polypeptide 6; cardiac muscle; alpha||transgene insertion 2182; Michael D Schneider

Genomic Alteration: transgene insertion 2182; Michael D Schneider

Catalog Number: JAX:011038

Database: International Mouse Resource Center IMSR, JAX

Database Abbreviation: IMSR

Availability: live

Alternate IDs: IMSR_JAX:11038

Organism Name: B6.FVB-Tg(Myh6-cre)2182Mds/J

Record Creation Time: 20230509T193303+0000

Record Last Update: 20250412T090536+0000

Ratings and Alerts

No rating or validation information has been found for B6.FVB-Tg(Myh6-cre)2182Mds/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human hypoplastic left heart syndrome.

Data and Source Information

Source: Integrated Animals

Source Database: International Mouse Resource Center IMSR, JAX

Usage and Citation Metrics

We found 77 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Ge W, et al. (2025) Rnd3 protects against doxorubicin-induced cardiotoxicity through inhibition of PANoptosis in a Rock1/Drp1/mitochondrial fission-dependent manner. Cell death & disease, 16(1), 2.

Shu J, et al. (2024) PARP1 Promotes Heart Regeneration and Cardiomyocyte Proliferation. International journal of biological sciences, 20(5), 1602.

Niu X, et al. (2024) lncRNA Oip5-as1 inhibits excessive mitochondrial fission in myocardial ischemia/reperfusion injury by modulating DRP1 phosphorylation. Cellular & molecular biology letters, 29(1), 72.

Akins KA, et al. (2024) Runx1 is sufficient but not required for cardiomyocyte cell-cycle activation. American journal of physiology. Heart and circulatory physiology, 327(2), H377.

Gural B, et al. (2024) Novel Insights into Post-Myocardial Infarction Cardiac Remodeling through Algorithmic Detection of Cell-Type Composition Shifts. bioRxiv : the preprint server for biology.

Wei X, et al. (2024) Tert promotes cardiac regenerative repair after MI through alleviating ROS-induced DNA damage response in cardiomyocyte. Cell death discovery, 10(1), 381.

Qu Z, et al. (2024) The positive feedback loop of the NAT10/Mybbp1a/p53 axis promotes cardiomyocyte ferroptosis to exacerbate cardiac I/R injury. Redox biology, 72, 103145.

Tang Y, et al. (2024) Nucleolin myocardial-specific knockout exacerbates glucose metabolism disorder in endotoxemia-induced myocardial injury. PeerJ, 12, e17414.

Davenport A, et al. (2024) Comparative analysis of two independent Myh6-Cre transgenic mouse lines. Journal of molecular and cellular cardiology plus, 9.

Bi X, et al. (2024) Characterization of ferroptosis-triggered pyroptotic signaling in heart failure. Signal transduction and targeted therapy, 9(1), 257.

Sun SJ, et al. (2024) Gasdermin-E-mediated pyroptosis drives immune checkpoint inhibitor-associated myocarditis via cGAS-STING activation. Nature communications, 15(1), 6640.

Li W, et al. (2024) Cardiac corin and atrial natriuretic peptide regulate liver glycogen metabolism and glucose homeostasis. Cardiovascular diabetology, 23(1), 383.

Yang H, et al. (2024) Dysregulated RBM24 phosphorylation impairs APOE translation underlying psychological stress-induced cardiovascular disease. Nature communications, 15(1), 10181.

Duan Q, et al. (2024) Deptor protects against myocardial ischemia-reperfusion injury by regulating the mTOR signaling and autophagy. Cell death discovery, 10(1), 508.

Grimes KM, et al. (2024) MEK1-ERK1/2 signaling regulates the cardiomyocyte non-sarcomeric actin cytoskeletal network. American journal of physiology. Heart and circulatory physiology, 326(1), H180.

Sweeney M, et al. (2024) Interleukin 11 therapy causes acute left ventricular dysfunction. Cardiovascular research, 120(17), 2220.

Sun JT, et al. (2024) PEX3 promotes regenerative repair after myocardial injury in mice through facilitating plasma membrane localization of ITGB3. Communications biology, 7(1), 795.

Han J, et al. (2024) Cardiomyocyte-derived USP28 negatively regulates antioxidant response and promotes cardiac hypertrophy via deubiquitinating TRIM21. Theranostics, 14(16), 6236.

Su C, et al. (2024) Tudor-SN promotes cardiomyocyte proliferation and neonatal heart regeneration through regulating the phosphorylation of YAP. Cell communication and signaling : CCS, 22(1), 345.

Liu L, et al. (2024) 14-3-3 binding motif phosphorylation disrupts Hdac4-organized condensates to stimulate cardiac reprogramming. Cell reports, 43(4), 114054.