Resource Summary Report

Generated by NIF on Aug 1, 2026

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

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

Genomic Alteration: transgene insertion 2182; Michael D Schneider

Catalog Number: JAX:011038

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

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

Record Creation Time: 20250513T053719+0000

Record Last Update: 20260801T050423+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: JAX Mice and Services

Usage and Citation Metrics

We found 90 mentions in open access literature.

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

Han J, et al. (2025) Cardiomyocyte-derived USP13 protects hearts from hypertrophy via deubiquitinating and stabilizing STAT1 in male mice. Nature communications, 16(1), 5927.

Jia Y, et al. (2025) Succinate-GPR91 signaling promotes cardiomyocyte metabolic reprogramming and NAD+ production to alleviate HFpEF. Research square.

Niu W, et al. (2025) Piezo1 deletion mitigates diabetic cardiomyopathy by maintaining mitochondrial dynamics via ERK/Drp1 pathway. Cardiovascular diabetology, 24(1), 127.

Wei Y, et al. (2025) Acid sphingomyelinase promotes diabetic cardiomyopathy via disruption of mitochondrial calcium homeostasis. Cardiovascular diabetology, 24(1), 272.

Gural B, et al. (2025) Novel insights into post-myocardial infarction cardiac remodeling through algorithmic detection of cell-type composition shifts. PLoS genetics, 21(7), e1011807.

Yu F, et al. (2025) Cardiomyocyte lncRNA Cpat maintains cardiac homeostasis and mitochondria function by targeting citrate synthase acetylation. Nature communications, 16(1), 9022.

Han X, et al. (2025) Cardiomyocyte OTUD1 drives diabetic cardiomyopathy via directly deubiquitinating AMPK??2 and inducing mitochondrial dysfunction. Nature communications, 16(1), 6668.

Xia JB, et al. (2025) FoxO3 controls cardiomyocyte proliferation and heart regeneration by regulating Sfrp2 expression in postnatal mice. Nature communications, 16(1), 2532.

Paulhus K, et al. (2025) Cardiac-specific Kv1.1 deficiency alters cardiomyocyte electrophysiology without modifying overall cardiac function or arrhythmia susceptibility. bioRxiv : the preprint server for biology.

Yang C, et al. (2025) IGFBP2 plays a key role in aerobic exercise-mediated inhibition of ferroptosis in cardiac ischemia/reperfusion (I/R) injury. Journal of translational medicine,

23(1), 1080.

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.

Lin L, et al. (2025) Deubiquitinase USP13 alleviates doxorubicin-induced cardiotoxicity through promoting the autophagy-mediated degradation of STING. Acta pharmaceutica Sinica. B, 15(5), 2545.

Liu N, et al. (2025) PTMA controls cardiomyocyte proliferation and cardiac repair by enhancing STAT3 acetylation. Science advances, 11(21), eadt9446.

Liu J, et al. (2025) sRAGE inhibits myocardial ischemia/reperfusion injuries via regulating Treg cells. Cell & bioscience, 15(1), 144.

Lin S, et al. (2025) Rbpms2 prevents major cardiac defects in cardiomyocyte-specific Rbpms-deficient mice. Developmental cell.

Amirrad F, et al. (2025) PGRMC2 is a pressure-volume regulator critical for myocardial responses to stress in mice. Nature communications, 16(1), 2422.

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.

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.