Resource Summary Report

Generated by kravitz2 on Sep 20, 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: 20260919T054907+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 102 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Kuwabara Y, et al. (2026) Heart-Specific and Conditional Deletion of the Immt Gene Reveals Its Role in Regulating Mitochondrial Structure and Total Heart Metabolism. Cells, 15(6).

Jing P, et al. (2026) CHK1 activates mitophagy to attenuate cardiac aging via inhibiting AHSA1-ubiquitination. Redox biology, 95, 104242.

Jin SA, et al. (2026) Role of CR6-Interacting Factor 1 (Crif1) in Cardiac Mitochondrial Structure and Stress-Induced Functional Decline. Korean circulation journal, 56(4), 314.

Xuan J, et al. (2026) Cardiomyocyte-derived TGFB3 attenuates cardiac fibrosis and preserves cardiac function in heart failure. Scientific reports, 16(1).

Duan Y, et al. (2026) SIRT1 deficiency promotes age-related heart failure through enhancing ferroptosis via GATA4-HADHA-GPX4 axis. Cell death & disease, 17(1).

Jiankui D, et al. (2026) Endogenous H?S promotes HSPA8 sulfhydration to downregulate HIF1? and prevent ferroptosis in septic myocardial injury. Redox report : communications in free radical research, 31(1), 2626159.

Wang N, et al. (2026) Loss of DNA methyltransferase 3a enhances Caspase-8 transcription and promotes cardiomyocyte pyroptosis during myocardial infarction. Nature communications, 17(1).

Purdy AL, et al. (2026) Genome-wide association mapping and targeted loss of function studies identify Shroom3 as a driver of hyperpolyploidy and ventricular dilation. Proceedings of the National Academy of Sciences of the United States of America, 123(22), e2522068123.

Eliezeck M, et al. (2026) Cardiomyocyte-targeted Gi signaling promotes cardiac repair under sustained adrenergic stress in mice. Journal of molecular and cellular cardiology, 217, 122.

Liu H, et al. (2026) Sequential changes in calcium transients during M phase regulate cardiomyocyte proliferation. The Journal of cell biology, 225(8).

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

Wang S, et al. (2025) Methylmalonate accumulation contributes to myocardial vulnerability post-reperfusion: a novel therapeutic target and prognostic biomarker. BMC medicine, 24(1), 65.

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.

Jia Y, et al. (2025) Succinate-GPR91 signaling promotes cardiomyocyte metabolic reprogramming and NAD+ production to alleviate HFpEF. Cardiovascular diabetology, 25(1), 5.

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

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