

Resource Summary Report

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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: 20260815T050629+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 [NIF](#) .

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 AHS1-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 H₂S promotes HSPA8 sulfhydration to downregulate HIF1 α 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).

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

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.

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

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.

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.

Han X, et al. (2025) Cardiomyocyte OTUD1 drives diabetic cardiomyopathy via directly deubiquitinating AMPK α 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.