

Resource Summary Report

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STOCK *Myh10^{tm7Rsad}/Mmnc*

RRID:MMRRC_016981-UNC

Type: Organism

Proper Citation

RRID:MMRRC_016981-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=16981

Proper Citation: RRID:MMRRC_016981-UNC

Description: Mus musculus with name STOCK *Myh10^{tm7Rsad}/Mmnc* from MMRRC.

Species: Mus musculus

Notes: Research areas: Cardiovascular, Cell Biology, Developmental Biology, Models for Human Disease, Neurobiology, Research Tools; Mutation Type: Targeted Mutation ; Collection:

Phenotype: abnormal cerebellum development [MP:0000854]| abnormal locomotor behavior [MP:0001392]| heart inflammation [MP:0001853]| abnormal atrial thrombosis [MP:0001855]| hydroencephaly [MP:0001891]| abnormal impulse conducting system conduction [MP:0003137]| increased cardiomyocyte apoptosis [MP:0003222]| enlarged myocardial fiber [MP:0004564]| decreased cardiac muscle contractility [MP:0005140]| cardiomyopathy [MP:0005330]| cardiac interstitial fibrosis [MP:0005608]| thin cerebral cortex [MP:0006254]| abnormal intercalated disk morphology [MP:0006267]| enlarged lateral ventricles [MP:0008535]| abnormal spinal cord central canal morphology [MP:0009688]| ventricular septal defect [MP:0010402]| postnatal lethality [MP:0011085]

Affected Gene: Myh10

Catalog Number: 016981-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:19815823](#)

Alternate IDs: MMRRC_16981-UNC, MMRRC_016981, MMRRC_16981

Organism Name: STOCK *Myh10^{tm7Rsad}/Mmnc*

Record Creation Time: 20230308T054945+0000

Record Last Update: 20250419T223245+0000

Ratings and Alerts

No rating or validation information has been found for STOCK *Myh10^{tm7Rsad}/Mmnc*.

No alerts have been found for STOCK *Myh10^{tm7Rsad}/Mmnc*.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Mutant Mouse Resource and Research Center (MMRRC)

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Sung DC, et al. (2021) Mutations in non-muscle myosin 2A disrupt the actomyosin cytoskeleton in Sertoli cells and cause male infertility. *Developmental biology*, 470, 49.

Wang XW, et al. (2020) Knocking Out Non-muscle Myosin II in Retinal Ganglion Cells Promotes Long-Distance Optic Nerve Regeneration. *Cell reports*, 31(3), 107537.

Ma X, et al. (2020) Nonmuscle myosin 2 regulates cortical stability during sprouting angiogenesis. *Molecular biology of the cell*, 31(18), 1974.

Haque F, et al. (2017) Non-muscle myosin II deletion in the developing kidney causes ureter-bladder misconnection and apical extrusion of the nephric duct lineage epithelia. *Developmental biology*, 427(1), 121.

Ridge LA, et al. (2017) Non-muscle myosin IIB (Myh10) is required for epicardial function and coronary vessel formation during mammalian development. PLoS genetics, 13(10), e1007068.

Recuenco MC, et al. (2015) Nonmuscle Myosin II Regulates the Morphogenesis of Metanephric Mesenchyme-Derived Immature Nephrons. Journal of the American Society of Nephrology : JASN, 26(5), 1081.

Rusielewicz T, et al. (2014) Accelerated repair of demyelinated CNS lesions in the absence of non-muscle myosin IIB. Glia, 62(4), 580.