

Resource Summary Report

Generated by [RRID](#) on Aug 5, 2026

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: 20260801T123738+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 [RRID](#).

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.