

Resource Summary Report

Generated by [NIF](#) on Aug 6, 2026

B6;129S-Myh9^{tm5Rsad}/Mmnc

RRID:MMRRC_032096-UNC

Type: Organism

Proper Citation

RRID:MMRRC_032096-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=32096

Proper Citation: RRID:MMRRC_032096-UNC

Description: Mus musculus with name B6;129S-Myh9^{tm5Rsad}/Mmnc from MMRRC.

Species: Mus musculus

Notes: Research areas: Cancer, Cell Biology, Dermatology, Developmental Biology, Hematology, Immunology and Inflammation, Internal/Organ, Models for Human Disease, Research Tools, Sensorineural; Mutation Type: Targeted Mutation ; Collection:

Phenotype: abnormal T cell physiology [MP:0002444]| albuminuria [MP:0002871]| abnormal leukocyte migration [MP:0003156]| abnormal leukocyte adhesion [MP:0003628]| abnormal CD8-positive [MP:0004392]| alpha-beta T cell physiology [MP:0005264]| glomerulosclerosis [MP:0005326]| abnormal podocyte morphology [MP:0008079]| decreased CD8-positive [MP:0008140]| alpha-beta T cell number [MP:0008828]

Affected Gene: Myh9

Catalog Number: 032096-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:20835229](#)

Alternate IDs: MMRRC_32096-UNC, MMRRC_032096, MMRRC_3296

Organism Name: B6;129S-Myh9^{tm5Rsad}/Mmnc

Record Creation Time: 20230308T055126+0000

Record Last Update: 20260801T124236+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Myh9^{tm5Rsad}/Mmnc.

No alerts have been found for B6;129S-Myh9^{tm5Rsad}/Mmnc.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 9 mentions in open access literature.

Listed below are recent publications. The full list is available at [NIF](#).

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.

Sumigray KD, et al. (2018) Morphogenesis and Compartmentalization of the Intestinal Crypt. *Developmental cell*, 45(2), 183.

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.

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.

Conti MA, et al. (2015) Conditional deletion of nonmuscle myosin II-A in mouse tongue epithelium results in squamous cell carcinoma. *Scientific reports*, 5, 14068.

Crish J, et al. (2013) Keratin 5-Cre-driven excision of nonmuscle myosin IIA in early embryo trophectoderm leads to placenta defects and embryonic lethality. *Developmental biology*, 382(1), 136.

Zhang Y, et al. (2012) Mouse models of MYH9-related disease: mutations in nonmuscle myosin II-A. *Blood*, 119(1), 238.