

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on Apr 24, 2025

B6;129S7-Twist1^{tm2Bhr}/Mmnc

RRID:MMRRC_016842-UNC

Type: Organism

Proper Citation

RRID:MMRRC_016842-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=16842

Proper Citation: RRID:MMRRC_016842-UNC

Description: Mus musculus with name B6;129S7-Twist1^{tm2Bhr}/Mmnc from MMRRC.

Species: Mus musculus

Notes: Research areas: Cancer, Developmental Biology, Models for Human Disease;
Mutation Type: Targeted Mutation ; Collection:

Phenotype: polydactyly [MP:0000562] short temporal bone squamous part [MP:0008430]

Affected Gene: Twist1

Catalog Number: 016842-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:17868088](#), [PMID:17050674](#)

Alternate IDs: MMRRC_16842-UNC, MMRRC_016842, MMRRC_16842

Organism Name: B6;129S7-Twist1^{tm2Bhr}/Mmnc

Record Creation Time: 20230308T054944+0000

Record Last Update: 20250419T223243+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S7-*Twist1*^{tm2Bhr}/Mmnc.

No alerts have been found for B6;129S7-*Twist1*^{tm2Bhr}/Mmnc.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 12 mentions in open access literature.

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

Yang F, et al. (2024) An immunosuppressive vascular niche drives macrophage polarization and immunotherapy resistance in glioblastoma. *Science advances*, 10(9), eadj4678.

Bok S, et al. (2023) A multi-stem cell basis for craniosynostosis and calvarial mineralization. *Nature*, 621(7980), 804.

Matrongo MJ, et al. (2023) Piezo1 agonist restores meningeal lymphatic vessels, drainage, and brain-CSF perfusion in craniosynostosis and aged mice. *The Journal of clinical investigation*, 134(4).

Matrongo MJ, et al. (2023) Piezo1 agonist restores meningeal lymphatic vessels, drainage, and brain-CSF perfusion in craniosynostosis and aged mice. *bioRxiv : the preprint server for biology*.

Matrongo MJ, et al. (2023) Loss of *Twist1* and balanced retinoic acid signaling from the meninges causes cortical folding in mice. *Development (Cambridge, England)*, 150(18).

Liu L, et al. (2022) *Twist1* downregulation of PGC-1 β decreases fatty acid oxidation in tubular epithelial cells, leading to kidney fibrosis. *Theranostics*, 12(8), 3758.

Whitman MC, et al. (2022) *Twist1*, a gene associated with Saethre-Chotzen syndrome, regulates extraocular muscle organization in mouse. *Developmental biology*, 490, 126.

Han X, et al. (2021) *Runx2-Twist1* interaction coordinates cranial neural crest guidance of soft palate myogenesis. *eLife*, 10.

Teng CS, et al. (2018) Altered bone growth dynamics prefigure craniosynostosis in a zebrafish model of Saethre-Chotzen syndrome. *eLife*, 7.

Yeo SY, et al. (2018) A positive feedback loop bi-stably activates fibroblasts. *Nature communications*, 9(1), 3016.

Tischfield MA, et al. (2017) Cerebral Vein Malformations Result from Loss of Twist1 Expression and BMP Signaling from Skull Progenitor Cells and Dura. *Developmental cell*, 42(5), 445.

Zheng X, et al. (2015) Epithelial-to-mesenchymal transition is dispensable for metastasis but induces chemoresistance in pancreatic cancer. *Nature*, 527(7579), 525.