

Resource Summary Report

Generated by [RRID](#) on Aug 3, 2026

B6;129-ErbB4^{tm1Fej}/Mmucd

RRID:MMRRC_010439-UCD

Type: Organism

Proper Citation

RRID:MMRRC_010439-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=10439

Proper Citation: RRID:MMRRC_010439-UCD

Description: Mus musculus with name B6;129-ErbB4^{tm1Fej}/Mmucd from MMRRC.

Species: Mus musculus

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

Phenotype: abnormal mammary gland development [MP:0000628]| abnormal myelination [MP:0000920]| hyperactivity [MP:0001399]| abnormal lactation [MP:0001882]| enhanced long term potentiation [MP:0003008]| abnormal mammary gland growth during lactation [MP:0006270]| decreased prepulse inhibition [MP:0009142]| postnatal lethality [MP:0011085]

Affected Gene: ErbB4

Catalog Number: 010439-UCD

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:12954715](#), [PMID:15219717](#)

Alternate IDs: MMRRC_10439-UCD, MMRRC_010439, MMRRC_1439

Organism Name: B6;129-ErbB4^{tm1Fej}/Mmucd

Record Creation Time: 20230308T054905+0000

Ratings and Alerts

No rating or validation information has been found for B6;129-*ErbB4*^{tm1Fej}/Mmucd.

No alerts have been found for B6;129-*ErbB4*^{tm1Fej}/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Cools JMT, et al. (2025) Small-molecule-induced ERBB4 activation to treat heart failure. Nature communications, 16(1), 576.

Fisher ML, et al. (2024) Dynamic effects of ventral hippocampal NRG3/ERBB4 signaling on nicotine withdrawal-induced responses. Neuropharmacology, 247, 109846.

Sung K, et al. (2024) ErbB4 precludes the occurrence of PTSD-like fear responses by supporting the bimodal activity of the central amygdala. Experimental & molecular medicine, 56(12), 2703.

Fisher ML, et al. (2023) Dynamic Effects of Ventral Hippocampal NRG3/ERBB4 Signaling on Nicotine Withdrawal-Induced Responses. bioRxiv : the preprint server for biology.

Feyen E, et al. (2021) ERBB4 and Multiple MicroRNAs That Target ERBB4 Participate in Pregnancy-Related Cardiomyopathy. Circulation. Heart failure, 14(7), e006898.

Asede D, et al. (2021) Deletion of ErbB4 Disrupts Synaptic Transmission and Long-Term Potentiation of Thalamic Input to Amygdalar Medial Paracapsular Intercalated Cells. Frontiers in synaptic neuroscience, 13, 697110.

Vermeulen Z, et al. (2017) Inhibitory actions of the NRG-1/ErbB4 pathway in macrophages during tissue fibrosis in the heart, skin, and lung. American journal of physiology. Heart and circulatory physiology, 313(5), H934.

Cooper MA, et al. (2014) Ablation of ErbB4 from excitatory neurons leads to reduced dendritic spine density in mouse prefrontal cortex. The Journal of comparative neurology, 522(14), 3351.