

Resource Summary Report

Generated by [NIF](#) on Aug 20, 2026

B6N.129P2-*Pde4d*^{tm1Mct}/Mmucd

RRID:MMRRC_034588-UCD

Type: Organism

Proper Citation

RRID:MMRRC_034588-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=34588

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Description: Mus musculus with name B6N.129P2-*Pde4d*^{tm1Mct}/Mmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: ; Mutation Type: Targeted Mutation ; Collection:

Phenotype: decreased body weight [MP:0001262]| postnatal growth retardation [MP:0001732]| reduced female fertility [MP:0001923]| abnormal ovulation [MP:0001928]| decreased litter size [MP:0001935]| increased cardiac muscle contractility [MP:0005599]| impaired neutrophil recruitment [MP:0008719]| impaired neutrophil chemotaxis [MP:0008720]| abnormal tumor necrosis factor level [MP:0008752]| postnatal lethality [MP:0011086]| incomplete penetrance [MP:0011087]

Affected Gene: *Pde4d*

Catalog Number: 034588-UCD

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:18508768](#), [PMID:21288894](#)

Alternate IDs: MMRRC_34588-UCD, MMRRC_034588, MMRRC_34588

Organism Name: B6N.129P2-*Pde4d*^{tm1Mct}/Mmucd

Record Creation Time: 20230308T055133+0000

Ratings and Alerts

No rating or validation information has been found for B6N.129P2-*Pde4d^{tm1Mct}*/Mmucd.

No alerts have been found for B6N.129P2-*Pde4d^{tm1Mct}*/Mmucd.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 3 mentions in open access literature.

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

Sancar G, et al. (2022) FGF1 and insulin control lipolysis by convergent pathways. Cell metabolism, 34(1), 171.

Boyd A, et al. (2021) The cAMP-phosphodiesterase 4 (PDE4) controls ??-adrenoceptor- and CFTR-dependent saliva secretion in mice. The Biochemical journal, 478(10), 1891.

McDonough W, et al. (2020) PAN-selective inhibition of cAMP-phosphodiesterase 4 (PDE4) induces gastroparesis in mice. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 34(9), 12533.