Resource Summary Report

Generated by FDI Lab - SciCrunch.org on Apr 25, 2025

STOCK *Ptf1a*$^{tm1.1(cre)Cvw}$/Mmnc

RRID:MMRRC_000435-UNC
Type: Organism

Proper Citation

RRID:MMRRC_000435-UNC

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=435

Proper Citation: RRID:MMRRC_000435-UNC

Description: Mus musculus with name STOCK *Ptf1a*$^{tm1.1(cre)Cvw}$/Mmnc from MMRRC.

Species: Mus musculus

Notes: Research areas: Diabetes, Endocrine Deficiency; Mutation Type: Targeted Mutation ; Collection: BCBC-Beta Cell Biology Consortium

Phenotype: jaundice [MP:0000611]| enlarged spleen [MP:0000691]| paralysis [MP:0000753]| abnormal cerebellar molecular layer [MP:0000889]| weight loss [MP:0001263]| distended abdomen [MP:0001270]| increased metastatic potential [MP:0001272]| decreased metastatic potential [MP:0001273]| abnormal eye development [MP:0001286]| abnormal retina morphology [MP:0001325]| ataxia [MP:0001393]| impaired coordination [MP:0001405]| abnormal gait [MP:0001406]| abnormal motor coordination/balance [MP:0001516]| hepatic necrosis [MP:0001654]| abnormal pancreas morphology [MP:0001944]| increased tumor incidence [MP:0002020]| premature death [MP:0002083]| abnormal innervation [MP:0002184]| abnormal brain commissure morphology [MP:0002199]| abnormal inhibitory postsynaptic currents [MP:0002945]| increased retinal ganglion cell number [MP:0002983]| abnormal digestive system development [MP:0003119]| abnormal GABAergic neuron morphology [MP:0003245]| abnormal duodenum morphology [MP:0003271]| pancreas fibrosis [MP:0003334]| pancreas cysts [MP:0003336]| chronic pancreas inflammation [MP:0003341]| enlarged pancreas [MP:0003450]| abnormal nervous system morphology [MP:0003632]| absent pancreas [MP:0003655]| abnormal pancreas development [MP:0003934]| small pancreas [MP:0004247]| abnormal synaptic vesicle number [MP:0004792]| abnormal paired-pulse inhibition [MP:0004807]| abnormal thrombosis [MP:0005048]| increased susceptibility to injury [MP:0005165]| abnormal pancreatic islet

morphology [MP:0005215]| abnormal amacrine cell morphology [MP:0005240]| abnormal retinal neuronal layer morphology [MP:0006069]| absent amacrine cells [MP:0006095]| absent horizontal cells [MP:0008107]| thick retinal ganglion layer [MP:0008508]| absent retinal inner plexiform layer [MP:0008514]| abnormal synaptic bouton morphology [MP:0008571]| abnormal Purkinje cell differentiation [MP:0008579]| increased pancreas weight [MP:0009108]| abnormal pancreatic duct morphology [MP:0009143]| dilated pancreatic duct [MP:0009144]| abnormal pancreatic acinar cell morphology [MP:0009146]| increased pancreatic ductal adenocarcinoma incidence [MP:0009151]| increased pancreatic intraepithelial neoplasia incidence [MP:0009152]| increased pancreas tumor incidence [MP:0009153]| absent pancreatic acini [MP:0009156]| dilated gallbladder [MP:0009343]| abnormal hepatic portal vein morphology [MP:0010668]| neonatal lethality [MP:0011087]| complete penetrance [MP:0011270]| decreased excitatory postsynaptic current amplitude [MP:0013184]| hemorrhagic ascites [MP:0013221]

Affected Gene: crePtf1a

Catalog Number: 000435-UNC

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: PMID:12185368

Alternate IDs: MMRRC_435-UNC, MMRRC_000435, MMRRC_435

Organism Name: STOCK *Ptf1a*$^{tm1.1(cre)Cvw}$/Mmnc

Record Creation Time: 20230308T054752+0000

Record Last Update: 20250419T222400+0000

Ratings and Alerts

No rating or validation information has been found for STOCK *Ptf1a*$^{tm1.1(cre)Cvw}$/Mmnc.

No alerts have been found for STOCK *Ptf1a*$^{tm1.1(cre)Cvw}$/Mmnc.

Data and Source Information

Source: Integrated Animals

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

Usage and Citation Metrics

We found 6 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Zierke L, et al. (2024) Initiation of acute pancreatitis in mice is independent of fusion between lysosomes and zymogen granules. Cellular and molecular life sciences : CMLS, 81(1), 207.

Mahadevan KK, et al. (2023) Elimination of oncogenic KRAS in genetic mouse models eradicates pancreatic cancer by inducing FAS-dependent apoptosis by CD8+ T cells. Developmental cell, 58(17), 1562.

Seymour PA, et al. (2020) Jag1 Modulates an Oscillatory Dll1-Notch-Hes1 Signaling Module to Coordinate Growth and Fate of Pancreatic Progenitors. Developmental cell, 52(6), 731.

Zhong Y, et al. (2017) Mutant p53 Together with TGF? Signaling Influence Organ-Specific Hematogenous Colonization Patterns of Pancreatic Cancer. Clinical cancer research : an official journal of the American Association for Cancer Research, 23(6), 1607.

Wu F, et al. (2013) Onecut1 is essential for horizontal cell genesis and retinal integrity. The Journal of neuroscience : the official journal of the Society for Neuroscience, 33(32), 13053.

Fuerst PG, et al. (2012) Cell autonomy of DSCAM function in retinal development. Developmental biology, 361(2), 326.