

Resource Summary Report

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

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](https://pubmed.ncbi.nlm.nih.gov/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: 20260919T132930+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 7 mentions in open access literature.

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

Ma ZZ, et al. (2025) PRDM13 is required for specification of PAX2 lineage inhibitory neurons in the developing cerebellum. *Developmental biology*, 527, 17.

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 β 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.