Resource Summary Report

Generated by NIF on Aug 1, 2026

FVB.129-*Cdkn2a*^{tm1Rdp} *Pten*^{tm1Ffur}/Mmucd

RRID:MMRRC_043553-UCD
Type: Organism

Proper Citation

RRID:MMRRC_043553-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=43553

Proper Citation: RRID:MMRRC_043553-UCD

Description: Mus musculus with name FVB.129-*Cdkn2a*^{tm1Rdp} *Pten*^{tm1Ffur}/Mmucd from MMRRC.

Species: Mus musculus

Notes: Research areas: Cancer, Developmental Biology, Neurobiology; Mutation Type: Targeted Mutation ; Collection:

Phenotype: kyphosis [MP:0000160]| extramedullary hematopoiesis [MP:0000240]| increased cell proliferation [MP:0000351]| decreased cell proliferation [MP:0000352]| abnormal intestine morphology [MP:0000477]| enlarged liver [MP:0000599]| abnormal branching of the mammary ductal tree [MP:0000662]| abnormal spleen morphology [MP:0000689]| enlarged spleen [MP:0000691]| enlarged lymph nodes [MP:0000702]| abnormal myogenesis [MP:0000729]| increased satellite cell number [MP:0000730]| paralysis [MP:0000753]| abnormal retinal photoreceptor morphology [MP:0001004]| abnormal prostate gland morphology [MP:0001158]| hyperpigmentation [MP:0001188]| skin lesions [MP:0001212]| epidermal hyperplasia [MP:0001222]| hyperkeratosis [MP:0001242]| decreased body weight [MP:0001262]| decreased body size [MP:0001265]| increased metastatic potential [MP:0001272]| microphthalmia [MP:0001297]| cataract [MP:0001304]| abnormal somite development [MP:0001688]| embryonic growth arrest [MP:0001730]| mammary gland duct hyperplasia [MP:0001885]| hydroencephaly [MP:0001891]| increased tumor incidence [MP:0002020]| increased B cell derived lymphoma incidence [MP:0002023]| increased leukemia incidence [MP:0002026]| increased lung adenocarcinoma incidence [MP:0002027]| increased neurofibrosarcoma incidence [MP:0002030]| increased sarcoma incidence [MP:0002032]| increased rhabdomyosarcoma incidence [MP:0002036]| premature death [MP:0002083]| abnormal spleen red pulp morphology [MP:0002356]| abnormal cell cycle [MP:0003077]| abnormal telomere length [MP:0003155]| increased neuron apoptosis [MP:0003203]| testicular

atrophy [MP:0003205]| abnormal forebrain development [MP:0003232]| decreased tumor growth/size [MP:0003447]| abnormal keratinocyte physiology [MP:0003453]| increased hemangiosarcoma incidence [MP:0003667]| premature aging [MP:0003786]| skeletal muscle interstitial fibrosis [MP:0003851]| abnormal skin development [MP:0003941]| increased squamous cell carcinoma incidence [MP:0004207]| increased cellular sensitivity to ionizing radiation [MP:0004227]| increased incidence of tumors by chemical induction [MP:0004499]| increased incidence of tumors by UV-induction [MP:0004501]| abnormal posterior eye segment morphology [MP:0005195]| abnormal skin physiology [MP:0005501]| abnormal lens development [MP:0005545]| abnormal cell physiology [MP:0005621]| abnormal retinal neuronal layer morphology [MP:0006069]| abnormal common myeloid progenitor cell morphology [MP:0006410]| delayed cellular replicative senescence [MP:0008009]| increased lung tumor incidence [MP:0008014]| abnormal male germ cell apoptosis [MP:0008280]| increased spleen white pulp amount [MP:0008478]| increased pancreatic ductal adenocarcinoma incidence [MP:0009151]| increased pancreas tumor incidence [MP:0009153]| increased prostate gland adenocarcinoma incidence [MP:0009220]| increased brain tumor incidence [MP:0009277]| abnormal mammary gland duct morphology [MP:0009503]| increased keratinocyte proliferation [MP:0009583]| skin fibrosis [MP:0009932]| increased melanoma incidence [MP:0010275]| increased intraocular melanoma incidence [MP:0010276]| increased glioma incidence [MP:0010278]| increased skin tumor incidence [MP:0010300]| decreased tumor latency [MP:0010308]| increased oligodendroglioma incidence [MP:0010312]| increased cutaneous melanoma incidence [MP:0010322]| increased fibrosarcoma incidence [MP:0010363]| persistent hyperplastic primary vitreous [MP:0010711]| increased glioblastoma incidence [MP:0010727]| prenatal lethality [MP:0011091]| complete penetrance [MP:0011703]| increased fibroblast proliferation [MP:0011748]| intestinal fibrosis [MP:0012431]

Affected Gene: PtenCdkn2a

Catalog Number: 043553-UCD

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Alternate IDs: MMRRC_43553-UCD, MMRRC_043553, MMRRC_43553

Organism Name: FVB.129-*Cdkn2a*^{tm1Rdp} *Pten*^{tm1Ffur}/Mmucd

Record Creation Time: 20230308T055233+0000

Record Last Update: 20260725T164333+0000

Ratings and Alerts

No rating or validation information has been found for FVB.129-*Cdkn2a*^{tm1Rdp} *Pten*^{tm1Ffur} /Mmucd.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human dysplastic nevus syndrome.

Data and Source Information

Source: Integrated Animals

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

Usage and Citation Metrics

We have not found any literature mentions for this resource.