

Resource Summary Report

Generated by [NIF](#) on Aug 14, 2026

B6;129S2-E2f1^{tm1Njd}/Mmjax

RRID:MMRRC_034309-JAX

Type: Organism

Proper Citation

RRID:MMRRC_034309-JAX

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=34309

Proper Citation: RRID:MMRRC_034309-JAX

Description: Mus musculus with name B6;129S2-E2f1^{tm1Njd}/Mmjax from MMRRC.

Species: Mus musculus

Notes: Research areas: Apoptosis, Cancer, Cell Biology, Diabetes, Endocrine Deficiency; Mutation Type: Targeted Mutation ; Collection:

Phenotype: abnormal cartilage morphology [MP:0000163] abnormal chondrocyte morphology [MP:0000166] decreased cell proliferation [MP:0000352] abnormal salivary gland morphology [MP:0000613] abnormal thyroid gland morphology [MP:0000681] Leydig cell hyperplasia [MP:0001152] seminiferous tubule degeneration [MP:0001154] increased sensitivity to skin irradiation [MP:0001203] decreased body weight [MP:0001262] decreased body size [MP:0001265] increased metastatic potential [MP:0001272] abnormal circulating insulin level [MP:0001560] abnormal pancreas morphology [MP:0001944] increased tumor incidence [MP:0002020] increased lung adenocarcinoma incidence [MP:0002027] premature death [MP:0002083] abnormal gland morphology [MP:0002163] no abnormal phenotype detected [MP:0002169] decreased circulating insulin level [MP:0002727] increased insulin sensitivity [MP:0002891] increased hemangioma incidence [MP:0002947] abnormal long bone epiphyseal plate morphology [MP:0003055] decreased insulin secretion [MP:0003059] abnormal cell cycle [MP:0003077] testicular atrophy [MP:0003205] abnormal parotid gland morphology [MP:0003452] increased thyroid adenoma incidence [MP:0003496] abnormal submandibular gland morphology [MP:0003793] decreased testis weight [MP:0004852] uterine hemorrhage [MP:0004898] abnormal pancreatic islet morphology [MP:0005215] abnormal pancreatic beta cell morphology [MP:0005217] abnormal exocrine pancreas morphology [MP:0005220] impaired glucose tolerance [MP:0005293] decreased circulating glucose level [MP:0005560] adrenal medulla hyperplasia [MP:0008301] slow postnatal weight gain [MP:0008489] increased lung non-small cell

carcinoma incidence [MP:0008716]| decreased pancreas weight [MP:0009109]| decreased pancreatic islet number [MP:0009168]| small pancreatic islets [MP:0009172]| increased histiocytic sarcoma incidence [MP:0009321]| decreased total body fat amount [MP:0010025]| increased reproductive system tumor incidence [MP:0010287]| increased pituitary gland tumor incidence [MP:0010320]| neonatal lethality [MP:0011088]| incomplete penetrance [MP:0011091]| prenatal lethality [MP:0011098]| complete penetrance [MP:0011099]| embryonic lethality during organogenesis [MP:0011168]| complete penetrance [MP:0012431]| lethality throughout fetal growth and development [MP:0013440]| complete penetrance [MP:0030016]

Affected Gene: E2f1

Catalog Number: 034309-JAX

Background: Targeted Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:8653789](#), [PMID:9537419](#), [PMID:15232580](#)

Alternate IDs: MMRRC_34309-JAX, MMRRC_034309, MMRRC_3439

Organism Name: B6;129S2-E2f1^{tm1Njd}/Mmjax

Record Creation Time: 20230308T055132+0000

Record Last Update: 20260808T124033+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S2-E2f1^{tm1Njd}/Mmjax.

No alerts have been found for B6;129S2-E2f1^{tm1Njd}/Mmjax.

Data and Source Information

Source: [Integrated Animals](#)

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

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Xue G, et al. (2024) Clinical drug screening reveals clofazimine potentiates the efficacy while reducing the toxicity of anti-PD-1 and CTLA-4 immunotherapy. Cancer cell.