

Resource Summary Report

Generated by [dkNET](#) on Aug 16, 2026

C57BL/6JMcrlcr-Apc^{Min}/Mmmh (GM4)

RRID:MMRRC_050543-MU

Type: Organism

Proper Citation

RRID:MMRRC_050543-MU

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=50543

Proper Citation: RRID:MMRRC_050543-MU

Description: Mus musculus with name C57BL/6JMcrlcr-Apc^{Min}/Mmmh (GM4) from MMRRC.

Species: Mus musculus

Notes: Research areas: ; Mutation Type: chemically induced mutation ; Collection:

Phenotype: absent mandible [MP:0000087]| lordosis [MP:0000162]| decreased hematocrit [MP:0000208]| increased cell proliferation [MP:0000351]| abnormal intestine morphology [MP:0000477]| abnormal intestinal epithelium morphology [MP:0000488]| abnormal crypts of Lieberkuhn morphology [MP:0000490]| rectal prolapse [MP:0000493]| abnormal intestinal mucosa morphology [MP:0000511]| abnormal mammary gland development [MP:0000628]| mammary gland hyperplasia [MP:0000630]| abnormal adrenal gland morphology [MP:0000639]| abnormal brain development [MP:0000913]| abnormal ovarian folliculogenesis [MP:0001130]| abnormal ovarian follicle morphology [MP:0001131]| absent mature ovarian follicles [MP:0001132]| absent corpus luteum [MP:0001134]| abnormal vagina epithelium morphology [MP:0001140]| decreased body weight [MP:0001262]| weight loss [MP:0001263]| increased metastatic potential [MP:0001272]| hyperlipidemia [MP:0001548]| increased circulating triglyceride level [MP:0001552]| increased circulating free fatty acid level [MP:0001554]| anemia [MP:0001577]| extended life span [MP:0001661]| abnormal digestive system physiology [MP:0001663]| abnormal embryo development [MP:0001672]| abnormal embryo size [MP:0001697]| decreased embryo size [MP:0001698]| postnatal growth retardation [MP:0001732]| increased mammary adenocarcinoma incidence [MP:0001883]| abnormal tumor incidence [MP:0002019]| increased tumor incidence [MP:0002020]| increased incidence of induced tumors [MP:0002021]| increased carcinoma incidence [MP:0002038]| increased colon adenoma incidence [MP:0002044]| decreased tumor incidence [MP:0002052]| decreased incidence of induced tumors [MP:0002053]| premature death

[MP:0002083] altered tumor susceptibility [MP:0002166] abnormal hematopoietic system morphology/development [MP:0002396] increased intestinal adenoma incidence [MP:0002404] abnormal effector T cell morphology [MP:0002435] hepatic steatosis [MP:0002628] colitis [MP:0002816] increased intestinal adenocarcinoma incidence [MP:0002957] abnormal egg cylinder morphology [MP:0003085] acrania [MP:0003104] colon polyps [MP:0003269] intestinal obstruction [MP:0003270] melena [MP:0003292] gastric polyps [MP:0003299] increased hepatocellular carcinoma incidence [MP:0003331] decreased tumor growth/size [MP:0003447] abnormal tumor morphology [MP:0003448] abnormal intestinal goblet cell morphology [MP:0003449] increased tumor growth/size [MP:0003721] decreased macrophage cell number [MP:0003884] abnormal corticosterone level [MP:0003963] aneuploidy [MP:0004024] increased incidence of tumors by chemical induction [MP:0004499] increased incidence of tumors by ionizing radiation induction [MP:0004500] decreased incidence of tumors by chemical induction [MP:0004502] ovary atrophy [MP:0004833] abnormal large intestine crypts of Lieberkuhn morphology [MP:0004842] uterus atrophy [MP:0004894] decreased T cell number [MP:0005018] cachexia [MP:0005150] abnormal exocrine pancreas morphology [MP:0005220] abnormal cell physiology [MP:0005621] increased mammary adenocarcinoma incidence [MP:0006422] intestine polyps [MP:0008011] duodenum polyps [MP:0008012] decreased NK cell number [MP:0008045] abnormal DNA repair [MP:0008058] enlarged mesenteric lymph nodes [MP:0008466] increased pancreatic acinar cell carcinoma incidence [MP:0008780] increased small intestinal crypt cell apoptosis [MP:0008800] chromosomal instability [MP:0008866] decreased physiological sensitivity to xenobiotic [MP:0008874] abnormal DNA methylation [MP:0008877] abnormal enterocyte proliferation [MP:0008883] increased enterocyte apoptosis [MP:0008885] adrenal gland hyperplasia [MP:0009078] increased small intestine adenocarcinoma incidence [MP:0009309] increased colon adenocarcinoma incidence [MP:0009314] decreased splenocyte number [MP:0009339] abnormal pregnancy [MP:0009661] absent nipple [MP:0009733] increased prostaglandin level [MP:0009814] decreased prostaglandin level [MP:0009815] increased tumor latency [MP:0009828] embryonic lethality between implantation and placentation [MP:0009850] abnormal tumor vascularization [MP:0010144] decreased mammary gland tumor incidence [MP:0010269] increased classified tumor incidence [MP:0010273] increased gastrointestinal tumor incidence [MP:0010279] increased mammary gland tumor incidence [MP:0010299] increased salivary gland tumor incidence [MP:0010318] increased adenoma incidence [MP:0010383] altered tumor pathology [MP:0010639] abnormal survival [MP:0010769] perinatal lethality [MP:0011089] complete penetrance [MP:0011092] embryonic lethality [MP:0011096] complete penetrance [MP:0011100] embryonic lethality between implantation and somite formation [MP:0011109] complete penetrance [MP:0011635] preweaning lethality [MP:0012087] complete penetrance [MP:0012136] lethality throughout fetal growth and development [MP:0012424] incomplete penetrance [MP:0012434] abnormal mitochondrial crista morphology [MP:0012436] absent midbrain [MP:0013795] absent forebrain [MP:0020324]

Affected Gene: Apc

Catalog Number: 050543-MU

Background: chemically induced mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:1350108](#), [PMID:29973630](#)

Alternate IDs: MMRRC_50543-MU, MMRRC_050543, MMRRC_5543

Organism Name: C57BL/6JMcrlcr-Apc^{Min}/Mmmh (GM4)

Record Creation Time: 20230308T055313+0000

Record Last Update: 20260815T125625+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6JMcrlcr-Apc^{Min}/Mmmh (GM4).

No alerts have been found for C57BL/6JMcrlcr-Apc^{Min}/Mmmh (GM4).

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 [dkNET](#) .

Moskowitz JE, et al. (2020) Integration of genomics, metagenomics, and metabolomics to identify interplay between susceptibility alleles and microbiota in adenoma initiation. BMC cancer, 20(1), 600.