

Resource Summary Report

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

STOCK *Gt(ROSA)26Sor^{tm4}(ACTB-tdTomato,-EGFP)Luo*
Rb1^{tm3Tyj} Rbl2^{tm2Tyj} Trp53^{tm1Brn}/Mmucd

RRID:MMRRC_043692-UCD

Type: Organism

Proper Citation

RRID:MMRRC_043692-UCD

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=43692

Proper Citation: RRID:MMRRC_043692-UCD

Description: Mus musculus with name STOCK *Gt(ROSA)26Sor^{tm4}(ACTB-tdTomato,-EGFP)Luo Rb1^{tm3Tyj} Rbl2^{tm2Tyj} Trp53^{tm1Brn}/Mmucd* from MMRRC.

Species: Mus musculus

Notes: Research areas: Apoptosis, Cancer, Cell Biology, Immunology and Inflammation, Models for Human Disease, Research Tools; Mutation Type: other ; Collection:

Phenotype: abnormal myogenesis [MP:0000729]| small testis [MP:0001147]| abnormal spermatogenesis [MP:0001156]| epidermal hyperplasia [MP:0001222]| abnormal epidermis suprabasal layer morphology [MP:0001233]| abnormal epidermis stratum granulosum morphology [MP:0001239]| increased metastatic potential [MP:0001272]| abnormal retina morphology [MP:0001325]| decreased retinal photoreceptor cell number [MP:0001327]| hunched posture [MP:0001505]| postnatal growth retardation [MP:0001732]| male infertility [MP:0001925]| increased tumor incidence [MP:0002020]| increased lung adenocarcinoma incidence [MP:0002027]| postnatal lethality [MP:0002082]| premature death [MP:0002083]| abnormal eye morphology [MP:0002092]| abnormal fertility/fecundity [MP:0002161]| increased brain weight [MP:0002176]| gliosis [MP:0002183]| abnormal bronchiole morphology [MP:0002267]| increased circulating alkaline phosphatase level [MP:0002968]| retina hypoplasia [MP:0002984]| increased neuron apoptosis [MP:0003203]| increased hepatocellular carcinoma incidence [MP:0003331]| abnormal tumor morphology [MP:0003448]| abnormal retinal inner nuclear layer morphology [MP:0003733]| abnormal retinal inner plexiform layer morphology [MP:0003734]| increased osteosarcoma incidence [MP:0003789]| polyploidy [MP:0004025]| transmission ratio distortion [MP:0004179]| decreased testis weight [MP:0004852]| increased brain size [MP:0005238]| abnormal amacrine cell morphology [MP:0005240]| abnormal retinal ganglion layer morphology [MP:0005241]| abnormal lens

development [MP:0005545] abnormal horizontal cell morphology [MP:0006068] abnormal retinal neuronal layer morphology [MP:0006069] abnormal retinal apoptosis [MP:0006072] absent retinal bipolar cells [MP:0006096] decreased retinal ganglion cell number [MP:0006309] increased retinoblastoma incidence [MP:0006310] increased lung tumor incidence [MP:0008014] increased liver tumor incidence [MP:0008019] absent retinal ganglion cell [MP:0008068] decreased retinal cone cell number [MP:0008446] thin retinal inner nuclear layer [MP:0008511] disorganized retinal inner nuclear layer [MP:0008512] thin retinal inner plexiform layer [MP:0008513] thin retinal outer nuclear layer [MP:0008515] increased lung small cell carcinoma incidence [MP:0008715] abnormal neuron differentiation [MP:0009937] increased pituitary gland tumor incidence [MP:0010320] increased hibernoma incidence [MP:0010344] neonatal lethality [MP:0011087] complete penetrance [MP:0030005] thick pulmonary interalveolar septum [MP:0001179] increased lung adenocarcinoma incidence [MP:0002027] premature death [MP:0002083] abnormal bronchiole morphology [MP:0002267] abnormal tumor morphology [MP:0003448] increased tumor growth/size [MP:0003721] hematuria [MP:0005161] increased lung tumor incidence [MP:0008014] increased lung small cell carcinoma incidence [MP:0008715] increased urinary bladder carcinoma incidence [MP:0009550] abnormal cell death [MP:0000313] abnormal cell proliferation [MP:0000350] increased cell proliferation [MP:0000351] abnormal hair follicle morphology [MP:0000377] abnormal hair cycle [MP:0000427] enlarged liver [MP:0000599] mammary gland hyperplasia [MP:0000630] abnormal branching of the mammary ductal tree [MP:0000662] tremors [MP:0000745] weakness [MP:0000746] paralysis [MP:0000753] hindlimb paralysis [MP:0000755] abnormal corpus callosum morphology [MP:0000780] abnormal cerebral cortex morphology [MP:0000788] abnormal hippocampus morphology [MP:0000807] abnormal cerebellum morphology [MP:0000849] abnormal cerebellum external granule cell layer morphology [MP:0000872] abnormal prostate gland morphology [MP:0001158] abnormal lung morphology [MP:0001175] lung hemorrhage [MP:0001182] hyperpigmentation [MP:0001188] skin lesions [MP:0001212] thick epidermis [MP:0001219] abnormal epidermis stratum basale morphology [MP:0001231] decreased body weight [MP:0001262] weight loss [MP:0001263] decreased body size [MP:0001265] increased metastatic potential [MP:0001272] decreased metastatic potential [MP:0001273] abnormal retina morphology [MP:0001325] abnormal locomotor behavior [MP:0001392] ataxia [MP:0001393] circling [MP:0001394] impaired coordination [MP:0001405] abnormal gait [MP:0001406] excessive scratching [MP:0001412] increased circulating triglyceride level [MP:0001552] hyperglycemia [MP:0001559] extended life span [MP:0001661] postnatal growth retardation [MP:0001732] decreased IgM level [MP:0001806] increased mammary adenocarcinoma incidence [MP:0001883] respiratory failure [MP:0001953] respiratory distress [MP:0001954] increased pilomatricoma incidence [MP:0002013] increased papilloma incidence [MP:0002014] ovary cysts [MP:0002016] increased tumor incidence [MP:0002020] increased T cell derived lymphoma incidence [MP:0002024] increased leukemia incidence [MP:0002026] increased lung adenocarcinoma incidence [MP:0002027] increased sarcoma incidence [MP:0002032] increased rhabdomyosarcoma incidence [MP:0002036] increased carcinoma incidence [MP:0002038] increased lung adenoma incidence [MP:0002048] decreased tumor incidence [MP:0002052] decreased incidence of induced tumors [MP:0002053] seizures [MP:0002064] postnatal lethality [MP:0002082] premature death [MP:0002083] no abnormal phenotype detected [MP:0002169] gliosis [MP:0002183] abnormal corpus epididymis morphology [MP:0002661] increased circulating glucagon level [MP:0002712] enhanced wound healing [MP:0002724] abnormal melanocyte morphology [MP:0002877]

increased intestinal adenocarcinoma incidence [MP:0002957] abnormal cell migration [MP:0003091] abnormal telomere length [MP:0003155] increased glucagonoma incidence [MP:0003365] decreased tumor growth/size [MP:0003447] abnormal tumor morphology [MP:0003448] abnormal ovary physiology [MP:0003507] increased uterus leiomyoma incidence [MP:0003570] abnormal oviduct morphology [MP:0003574] increased ovarian carcinoma incidence [MP:0003579] abnormal prostate gland physiology [MP:0003607] abnormal chromosome morphology [MP:0003702] increased tumor growth/size [MP:0003721] increased mouth tumor incidence [MP:0003750] increased osteosarcoma incidence [MP:0003789] abnormal hair shaft morphology [MP:0003809] aneuploidy [MP:0004024] increased squamous cell carcinoma incidence [MP:0004207] increased basal cell carcinoma incidence [MP:0004208] abnormal limb posture [MP:0004263] increased incidence of tumors by chemical induction [MP:0004499] increased incidence of tumors by UV-induction [MP:0004501] decreased incidence of tumors by chemical induction [MP:0004502] decreased hematopoietic stem cell number [MP:0004810] abnormal class switch recombination [MP:0004816] increased endometrial carcinoma incidence [MP:0004868] abnormal endometrium morphology [MP:0004896] enlarged uterus [MP:0004906] decreased B cell number [MP:0005017] decreased thyroid-stimulating hormone level [MP:0005134] increased thyroid-stimulating hormone level [MP:0005135] increased circulating cholesterol level [MP:0005178] lethargy [MP:0005202] abnormal eye anterior chamber morphology [MP:0005205] abnormal eye posterior chamber morphology [MP:0005299] dystonia [MP:0005323] enlarged thyroid gland [MP:0005355] hemoperitoneum [MP:0005435] abnormal skin physiology [MP:0005501] abnormal cell physiology [MP:0005621] increased apoptosis [MP:0006042] decreased apoptosis [MP:0006043] increased medulloblastoma incidence [MP:0006283] increased retinoblastoma incidence [MP:0006310] increased ovary tumor incidence [MP:0008000] increased gastric adenocarcinoma incidence [MP:0008010] increased lung tumor incidence [MP:0008014] abnormal brain white matter morphology [MP:0008026] absent B-1a cells [MP:0008203] decreased pre-B cell number [MP:0008209] decreased immature B cell number [MP:0008215] decreased IgG1 level [MP:0008495] abnormal cytokine level [MP:0008713] increased lung carcinoma incidence [MP:0008714] increased lung small cell carcinoma incidence [MP:0008715] decreased survivor rate [MP:0008770] chromosomal instability [MP:0008866] abnormal enterocyte proliferation [MP:0008883] progressive hair loss [MP:0009004] endometrium hyperplasia [MP:0009092] increased pancreatic ductal adenocarcinoma incidence [MP:0009151] increased pancreas tumor incidence [MP:0009153] increased prostate intraepithelial neoplasia incidence [MP:0009219] increased prostate gland adenocarcinoma incidence [MP:0009220] increased brain tumor incidence [MP:0009277] increased adenocarcinoma incidence [MP:0009308] increased duodenum adenocarcinoma incidence [MP:0009311] increased ovarian teratoma incidence [MP:0009442] abnormal mammary gland alveolus morphology [MP:0009506] increased urinary bladder carcinoma incidence [MP:0009550] increased keratinocyte proliferation [MP:0009583] hypergranulosis [MP:0009600] increased skin squamous cell carcinoma incidence [MP:0009704] decreased oligodendrocyte number [MP:0009808] increased tumor latency [MP:0009828] abnormal cerebellar layer morphology [MP:0009956] abnormal cerebellar granule cell migration [MP:0009977] abnormal tumor vascularization [MP:0010144] decreased mammary gland tumor incidence [MP:0010269] increased classified tumor incidence [MP:0010273] increased melanoma incidence [MP:0010275] increased astrocytoma incidence [MP:0010277] increased glioma incidence [MP:0010278] increased gastrointestinal tumor incidence [MP:0010279] increased nervous system tumor incidence [MP:0010281] decreased skin tumor incidence

[MP:0010285]| increased mammary gland tumor incidence [MP:0010299]| increased skin tumor incidence [MP:0010300]| increased hamartoma incidence [MP:0010306]| abnormal tumor latency [MP:0010307]| decreased tumor latency [MP:0010308]| increased mesothelioma incidence [MP:0010309]| increased Schwannoma incidence [MP:0010310]| increased oligodendroglioma incidence [MP:0010312]| increased cholangiocarcinoma incidence [MP:0010315]| increased thyroid tumor incidence [MP:0010316]| increased pituitary gland tumor incidence [MP:0010320]| increased cutaneous melanoma incidence [MP:0010322]| pleural effusion [MP:0010334]| increased hibernoma incidence [MP:0010344]| increased thyroid carcinoma incidence [MP:0010346]| increased pancreatic islet cell carcinoma incidence [MP:0010348]| increased spindle cell carcinoma incidence [MP:0010367]| altered tumor pathology [MP:0010639]| increased glioblastoma incidence [MP:0010727]| abnormal hematopoietic stem cell physiology [MP:0010763]| increased type II pneumocyte number [MP:0010810]| abnormal pulmonary neuroendocrine body morphology [MP:0010918]| postnatal lethality [MP:0011086]| incomplete penetrance [MP:0011400]| lethality [MP:0011804]| complete penetrance [MP:0012043]| increased cell migration [MP:0012411]| increased myoepithelioma incidence [MP:0012431]| increased granulosa cell tumor incidence [MP:0012690]| increased lymphoma incidence [MP:0013184]| abnormal stride length [MP:0013236]| hemorrhagic ascites [MP:0013539]| ovary degeneration [MP:0013751]

Affected Gene: ACTB|tdTomato||EGFP||Rb1|Rbl2||Trp53|

Catalog Number: 043692-UCD

Background: other

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:27374332](#), [PMID:10783170](#), [PMID:9671308](#), [PMID:14522252](#), [PMID:20406986](#)

Alternate IDs: MMRRC_43692-UCD, MMRRC_043692, MMRRC_43692

Organism Name: STOCK *Gt(ROSA)26Sor^{tm4}(ACTB-tdTomato,-EGFP)Luo Rb1^{tm3Tyj} Rbl2^{tm2Tyj} Trp53^{tm1Brn}/Mmucd*

Record Creation Time: 20230308T055234+0000

Record Last Update: 20260912T135034+0000

Ratings and Alerts

No rating or validation information has been found for STOCK *Gt(ROSA)26Sor^{tm4}(ACTB-tdTomato,-EGFP)Luo Rb1^{tm3Tyj} Rbl2^{tm2Tyj} Trp53^{tm1Brn}/Mmucd*.

No alerts have been found for STOCK *Gt(ROSA)26Sor^{tm4}(ACTB-tdTomato,-EGFP)Luo Rb1^{tm3Tyj} Rbl2^{tm2Tyj} Trp53^{tm1Brn}/Mmucd*.

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](#) .

Finlay JB, et al. (2024) Olfactory neuroblastoma mimics molecular heterogeneity and lineage trajectories of small-cell lung cancer. Cancer cell, 42(6), 1086.