

Resource Summary Report

Generated by [dkNET](#) on Sep 4, 2026

STOCK *Grm7^{Tg(SMN2)89Ahmb} Smn1^{tm1Msd}*
Tg(Rnu7-SMN2*,PGK1-EGFP)4Dasch/Mmjax

RRID:MMRRC_041843-JAX

Type: Organism

Proper Citation

RRID:MMRRC_041843-JAX

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=41843

Proper Citation: RRID:MMRRC_041843-JAX

Description: Mus musculus with name STOCK *Grm7^{Tg(SMN2)89Ahmb} Smn1^{tm1Msd}*
Tg(Rnu7-SMN2,PGK1-EGFP)4Dasch/Mmjax* from MMRRC.

Species: Mus musculus

Notes: Research areas: Developmental Biology, Models for Human Disease,
Neurobiology; Mutation Type: Transgenic ; Collection:

Phenotype: kyphosis [MP:0000160] abnormal blood flow velocity [MP:0000233] abnormal heart morphology [MP:0000266] thin ventricular wall [MP:0000280] abnormal interventricular septum morphology [MP:0000281] abnormal intestine morphology [MP:0000477] abnormal autopod morphology [MP:0000572] thick tail [MP:0000588] short tail [MP:0000592] tremors [MP:0000745] muscle weakness [MP:0000747] progressive muscle weakness [MP:0000748] abnormal skeletal muscle morphology [MP:0000759] abnormal motor neuron morphology [MP:0000937] motor neuron degeneration [MP:0000938] decreased motor neuron number [MP:0000939] abnormal sensory neuron innervation pattern [MP:0000968] abnormal sympathetic system morphology [MP:0001007] abnormal innervation pattern to muscle [MP:0001052] abnormal neuromuscular synapse morphology [MP:0001053] abnormal phrenic nerve morphology [MP:0001078] skin lesions [MP:0001212] epidermal necrosis [MP:0001220] decreased body weight [MP:0001262] weight loss [MP:0001263] decreased body size [MP:0001265] hypoactivity [MP:0001402] impaired coordination [MP:0001405] abnormal gait [MP:0001406] abnormal suckling behavior [MP:0001436] poor grooming [MP:0001443] limb grasping [MP:0001513] impaired righting response [MP:0001523] impaired limb coordination [MP:0001524] impaired balance [MP:0001525] abnormal apoptosis [MP:0001648] reduced fertility [MP:0001921] abnormal respiration [MP:0001943] respiratory distress [MP:0001954] hypopnea [MP:0001956] apnea

[MP:0001957] increased thermal nociceptive threshold [MP:0001973] postnatal lethality [MP:0002082] premature death [MP:0002083] abnormal embryonic tissue morphology [MP:0002085] abnormal embryonic growth/weight/body size [MP:0002088] abnormal tooth morphology [MP:0002100] abnormal ear morphology [MP:0002102] abnormal muscle morphology [MP:0002108] abnormal tail morphology [MP:0002111] abnormal outer ear morphology [MP:0002177] abnormal artery morphology [MP:0002191] abnormal CNS synaptic transmission [MP:0002206] muscular atrophy [MP:0002269] abnormal respiratory mechanics [MP:0002314] abnormal sciatic nerve morphology [MP:0002651] absent blastocoele [MP:0002663] decreased vertical activity [MP:0002757] dilated cardiomyopathy [MP:0002795] abnormal PNS synaptic transmission [MP:0002913] abnormal gastrocnemius morphology [MP:0003082] abnormal skeletal muscle fiber morphology [MP:0003084] abnormal synaptic transmission [MP:0003635] oxidative stress [MP:0003674] prolonged PR interval [MP:0003896] increased heart rate variability [MP:0003928] embryonic growth retardation [MP:0003984] abnormal muscle electrophysiology [MP:0004145] abnormal spine curvature [MP:0004174] neuronal intranuclear inclusions [MP:0004191] abnormal motor nerve collateral sprouting [MP:0004243] abnormal miniature endplate potential [MP:0004835] bradykinesia [MP:0005156] decreased heart rate [MP:0005333] positive geotaxis [MP:0005356] abnormal action potential [MP:0005402] abnormal axon morphology [MP:0005404] axon degeneration [MP:0005405] decreased pulmonary ventilation [MP:0005576] cardiac interstitial fibrosis [MP:0005608] abnormal lumbar dorsal root ganglion morphology [MP:0006404] slow postnatal weight gain [MP:0008489] abnormal synaptic bouton morphology [MP:0008571] embryonic lethality [MP:0008762] decreased survivor rate [MP:0008770] increased skeletal muscle fiber size [MP:0009399] decreased skeletal muscle fiber size [MP:0009400] decreased skeletal muscle fiber diameter [MP:0009402] decreased skeletal muscle fiber number [MP:0009406] skeletal muscle fiber degeneration [MP:0009412] skeletal muscle fiber atrophy [MP:0009413] paraparesis [MP:0009434] decreased birth body size [MP:0009703] decreased grip strength [MP:0010053] prolonged QRS complex duration [MP:0010392] prolonged RR interval [MP:0010506] increased heart left ventricle size [MP:0010579] thin interventricular septum [MP:0010725] postnatal lethality [MP:0011085] complete penetrance [MP:0011086] postnatal lethality [MP:0011088] incomplete penetrance [MP:0011090] neonatal lethality [MP:0011091] incomplete penetrance [MP:0011092] perinatal lethality [MP:0011094] incomplete penetrance [MP:0011101] prenatal lethality [MP:0011400] complete penetrance [MP:0013178] kyphosis [MP:0000160] abnormal blood flow velocity [MP:0000233] abnormal heart morphology [MP:0000266] thin ventricular wall [MP:0000280] abnormal interventricular septum morphology [MP:0000281] tremors [MP:0000745] muscle weakness [MP:0000747] paralysis [MP:0000753] abnormal skeletal muscle morphology [MP:0000759] abnormal motor neuron morphology [MP:0000937] motor neuron degeneration [MP:0000938] decreased motor neuron number [MP:0000939] abnormal spinal cord morphology [MP:0000955] abnormal sensory neuron innervation pattern [MP:0000968] abnormal sympathetic system morphology [MP:0001007] abnormal innervation pattern to muscle [MP:0001052] abnormal neuromuscular synapse morphology [MP:0001053] epidermal necrosis [MP:0001220] decreased body weight [MP:0001262] weight loss [MP:0001263] decreased body size [MP:0001265] hypoactivity [MP:0001402] impaired coordination [MP:0001405] abnormal gait [MP:0001406] abnormal suckling behavior [MP:0001436] poor grooming [MP:0001443] limb grasping [MP:0001513] abnormal motor coordination/balance [MP:0001516] impaired righting response [MP:0001523] impaired limb coordination [MP:0001524] impaired balance [MP:0001525] irregular heartbeat

[MP:0001636] reduced fertility [MP:0001921] respiratory distress [MP:0001954] hypopnea [MP:0001956] abnormal motor capabilities/coordination/movement [MP:0002066] postnatal lethality [MP:0002082] premature death [MP:0002083] abnormal muscle morphology [MP:0002108] no abnormal phenotype detected [MP:0002169] abnormal innervation [MP:0002184] abnormal artery morphology [MP:0002191] abnormal CNS synaptic transmission [MP:0002206] muscular atrophy [MP:0002269] dilated cardiomyopathy [MP:0002795] altered righting response [MP:0002862] abnormal PNS synaptic transmission [MP:0002913] abnormal gastrocnemius morphology [MP:0003082] prolonged QT interval [MP:0003233] decreased single cell response threshold [MP:0003466] abnormal synaptic transmission [MP:0003635] oxidative stress [MP:0003674] prolonged PR interval [MP:0003896] increased heart rate variability [MP:0003928] abnormal muscle electrophysiology [MP:0004145] neuronal intranuclear inclusions [MP:0004191] abnormal motor nerve collateral sprouting [MP:0004243] abnormal miniature endplate potential [MP:0004835] bradykinesia [MP:0005156] lethargy [MP:0005202] decreased heart rate [MP:0005333] abnormal action potential [MP:0005402] abnormal axon morphology [MP:0005404] cardiac interstitial fibrosis [MP:0005608] abnormal lumbar dorsal root ganglion morphology [MP:0006404] abnormal synaptic bouton morphology [MP:0008571] decreased survivor rate [MP:0008770] increased skeletal muscle fiber size [MP:0009399] decreased skeletal muscle fiber size [MP:0009400] decreased skeletal muscle fiber diameter [MP:0009402] decreased skeletal muscle fiber number [MP:0009406] skeletal muscle fiber degeneration [MP:0009412] skeletal muscle fiber atrophy [MP:0009413] decreased grip strength [MP:0010053] prolonged QRS complex duration [MP:0010392] prolonged RR interval [MP:0010506] increased heart left ventricle size [MP:0010579] thin interventricular septum [MP:0010725] postnatal lethality [MP:0011085] complete penetrance [MP:0011090] perinatal lethality [MP:0011101] incomplete penetrance [MP:0011400] prenatal lethality [MP:0013178]

Affected Gene: |SMN2|Grm7|PGK1|SMN2|EGFP||Rnu7|Smn1|

Catalog Number: 041843-JAX

Background: Transgenic

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:19010792](#), [PMID:9275227](#), [PMID:10655541](#), [PMID:20832308](#)

Alternate IDs: MMRRC_41843-JAX, MMRRC_041843, MMRRC_41843

Organism Name: STOCK *Grm7*^{Tg(SMN2)⁸⁹Ahmb} *Smn1*^{tm1Ms}d Tg(Rnu7-SMN2*,PGK1-EGFP)4Dasch/Mmjax

Record Creation Time: 20230308T055221+0000

Record Last Update: 20260829T123941+0000

Ratings and Alerts

No rating or validation information has been found for STOCK *Grm7^{Tg(SMN2)89Ahmb}* *Smn1^{tm1Msd}* Tg(Rnu7-SMN2*,PGK1-EGFP)4Dasch/Mmjax.

No alerts have been found for STOCK *Grm7^{Tg(SMN2)89Ahmb}* *Smn1^{tm1Msd}* Tg(Rnu7-SMN2*,PGK1-EGFP)4Dasch/Mmjax.

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.