

Resource Summary Report

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NFR.B-Vps54^{Wr}/Mmmh

RRID:MMRRC_030340-MU

Type: Organism

Proper Citation

RRID:MMRRC_030340-MU

Organism Information

URL: https://www.mmrrc.org/catalog/sds.php?mmrrc_id=30340

Proper Citation: RRID:MMRRC_030340-MU

Description: Mus musculus with name NFR.B-Vps54^{Wr}/Mmmh from MMRRC.

Species: Mus musculus

Notes: Research areas: Neurobiology; Mutation Type: Spontaneous Mutation ; Collection:

Phenotype: abnormal cell morphology [MP:0000358]| abnormal hepatocyte morphology [MP:0000607]| tremors [MP:0000745]| muscle weakness [MP:0000747]| progressive muscle weakness [MP:0000748]| forelimb paralysis [MP:0000756]| abnormal myelination [MP:0000920]| demyelination [MP:0000921]| abnormal motor neuron morphology [MP:0000937]| motor neuron degeneration [MP:0000938]| abnormal spinal nerve morphology [MP:0001077]| decreased body weight [MP:0001262]| abnormal gait [MP:0001406]| abnormal posture [MP:0001504]| limb grasping [MP:0001513]| abnormal grip strength [MP:0001515]| infertility [MP:0001924]| abnormal gametogenesis [MP:0001929]| premature death [MP:0002083]| abnormal muscle physiology [MP:0002106]| abnormal astrocyte morphology [MP:0002182]| gliosis [MP:0002183]| abnormal CNS synaptic transmission [MP:0002206]| muscular atrophy [MP:0002269]| abnormal sciatic nerve morphology [MP:0002651]| asthenozoospermia [MP:0002675]| globozoospermia [MP:0002686]| oligozoospermia [MP:0002687]| abnormal inhibitory postsynaptic currents [MP:0002945]| abnormal skeletal muscle fiber morphology [MP:0003084]| abnormal GABAergic neuron morphology [MP:0003245]| decreased circulating estrogen level [MP:0003371]| abnormal nervous system morphology [MP:0003632]| abnormal nervous system physiology [MP:0003633]| abnormal nucleotide metabolism [MP:0003806]| abnormal GABA-mediated receptor currents [MP:0004008]| abnormal axonal transport [MP:0004768]| decreased testis weight [MP:0004852]| abnormal lysosome morphology [MP:0005058]| upturned snout [MP:0006411]| abnormal synaptic bouton morphology [MP:0008571]| abnormal miniature inhibitory postsynaptic currents [MP:0009435]| decreased grip strength [MP:0010053]| abnormal GABAergic

neuron physiology [MP:0011987]| increased microglial cell activation [MP:0020448]| facial muscle atrophy [MP:0030140]

Affected Gene: Vps54

Catalog Number: 030340-MU

Background: Spontaneous Mutation

Database: Mutant Mouse Resource and Research Center (MMRRC)

Database Abbreviation: MMRRC

Source References: [PMID:5709840](#), [PMID:16244655](#), [PMID:19013502](#)

Alternate IDs: MMRRC_30340-MU, MMRRC_030340, MMRRC_334

Organism Name: NFR.B-*Vps54*^{Wf}/Mmmh

Record Creation Time: 20230308T055119+0000

Record Last Update: 20260829T123319+0000

Ratings and Alerts

No rating or validation information has been found for NFR.B-*Vps54*^{Wf}/Mmmh.

No alerts have been found for NFR.B-*Vps54*^{Wf}/Mmmh.

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](#) .

Petit CS, et al. (2020) Inhibition of sphingolipid synthesis improves outcomes and survival in GARP mutant wobbler mice, a model of motor neuron degeneration. Proceedings of the National Academy of Sciences of the United States of America, 117(19), 10565.