

Resource Summary Report

Generated by [PRECISE-TBI](#) on Jul 29, 2026

F344-Txn1^{m1Kyo}

RRID:RGD_288084580

Type: Organism

Proper Citation

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Organism Information

URL: <https://rgd.mcw.edu/rgdweb/report/strain/main.html?id=288084580>

Proper Citation: RRID:RGD_288084580

Description: Rattus norvegicus with name F344-Txn1^{m1Kyo} from RGD.

Species: Rattus norvegicus

Notes: This mutation Phe54Leu is an autosomal dominant mutation that appeared in a stock of F344/NSlc rats that had been mutagenized with N-ethyl-N-nitrosourea (ENU). Rats heterozygous for Txn1 (Txn1 /+) exhibited running seizures only in its juvenile stage. The rat called Adem rat, exhibited age dependent mitochondrial cytopathy (Adem). The rats were backcrossed for more than ten generations on the F344/NSlc inbred background to ensure other mutations induced by ENU was reduced. The causative gene was identified as a missense substitution (c. 160 T > C, p. Phe54Leu) in exon 3 of Txn1.

Catalog Number: 288084580

Background: mutant

Database: Rat Genome Database (RGD)

Database Abbreviation: RGD

Availability: Unknown

Alternate IDs: 288084580

Organism Name: F344-Txn1^{m1Kyo}

Record Creation Time: 20230509T191952+0000

Record Last Update: 20260725T194311+0000

Ratings and Alerts

No rating or validation information has been found for F344-*Txn1^{m1Kyo}* .

No alerts have been found for F344-*Txn1^{m1Kyo}* .

Data and Source Information

Source: [Integrated Animals](#)

Source Database: Rat Genome Database (RGD)

Usage and Citation Metrics

We have not found any literature mentions for this resource.