

Resource Summary Report

Generated by [T1D](#) on Sep 20, 2026

[Eif2ak3^{tm1Drc}/Eif2ak3^{tm1Drc}](#)

RRID:MGI:3618624

Type: Organism

Proper Citation

RRID:MGI:3618624

Organism Information

URL:

Proper Citation: RRID:MGI:3618624

Description: Allele Detail: Targeted This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Targeted This is a legacy resource.

Phenotype: small pancreatic islets, abnormal insulin secretion, increased liver glycogen level, impaired glucose tolerance, decreased body size, decreased bone mineralization, increased osteoblast apoptosis, postnatal growth retardation, osteoporosis, abnormal compact bone morphology, hyperglycemia, exocrine pancreatic insufficiency, prenatal lethality, incomplete penetrance, abnormal pancreatic alpha cell morphology, abnormal skeleton morphology, decreased pancreatic beta cell number, abnormal pancreatic acinar cell morphology, absent pancreatic alpha cells, postnatal lethality, incomplete penetrance, absent pancreatic beta cells, decreased compact bone thickness, abnormal osteoblast physiology, abnormal osteoblast morphology, abnormal vertebral body morphology, abnormal vertebrae development, decreased circulating insulin level, abnormal hindlimb morphology, hunched posture, hypoactivity, abnormal axial skeleton morphology, decreased pancreatic beta cell number, abnormal exocrine pancreas morphology

Affected Gene: Eif2ak3

Genomic Alteration: tm1Drc

Catalog Number: 3618624

Background: involves: 129S6/SvEvTac

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:11997520](#), [PMID:17727724](#)

Organism Name: Eif2ak3^{tm1Drc}/Eif2ak3^{tm1Drc}

Record Creation Time: 20240120T190605+0000

Record Last Update: 20240130T202008+0000

Ratings and Alerts

No rating or validation information has been found for Eif2ak3^{tm1Drc}/Eif2ak3^{tm1Drc}.

No alerts have been found for Eif2ak3^{tm1Drc}/Eif2ak3^{tm1Drc}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 1 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Larhammar M, et al. (2017) Dual leucine zipper kinase-dependent PERK activation contributes to neuronal degeneration following insult. eLife, 6.