

Resource Summary Report

Generated by [NIF](#) on Aug 15, 2026

B6.129S6-Eif2ak4^{tm1.2Dron}/J

RRID:IMSR_JAX:008240

Type: Organism

Proper Citation

RRID:IMSR_JAX:008240

Organism Information

URL: <https://www.jax.org/strain/008240>

Proper Citation: RRID:IMSR_JAX:008240

Description: Mus musculus with name B6.129S6-Eif2ak4^{tm1.2Dron}/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S6-Eif2ak4/J

Notes: gene symbol note: eukaryotic translation initiation factor 2 alpha kinase 4;
congenic strain: Eif2ak4

Affected Gene: eukaryotic translation initiation factor 2 alpha kinase 4

Genomic Alteration: targeted mutation 1.2; David Ron

Catalog Number: JAX:008240

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129S6-Eif2ak4^{tm1.2Dron}/J

Record Creation Time: 20250513T053707+0000

Record Last Update: 20260815T050616+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6-Eif2ak4^{tm1.2Dron}/J.

No alerts have been found for B6.129S6-Eif2ak4^{tm1.2Dron/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Mao Y, et al. (2026) AMPK γ 2 signals amino acid insufficiency to inhibit protein synthesis. Cell metabolism, 38(1), 192.

Li C, et al. (2022) Amino acid catabolism regulates hematopoietic stem cell proteostasis via a GCN2-eIF2 γ axis. Cell stem cell, 29(7), 1119.

Brunner JS, et al. (2020) Environmental arginine controls multinuclear giant cell metabolism and formation. Nature communications, 11(1), 431.

Alvarez-Castelao B, et al. (2020) The switch-like expression of heme-regulated kinase 1 mediates neuronal proteostasis following proteasome inhibition. eLife, 9.

Terrey M, et al. (2020) GTPBP1 resolves paused ribosomes to maintain neuronal homeostasis. eLife, 9.

Kapur M, et al. (2020) Expression of the Neuronal tRNA n-Tr20 Regulates Synaptic Transmission and Seizure Susceptibility. Neuron, 108(1), 193.

Sonner JK, et al. (2019) Dietary tryptophan links encephalogenicity of autoreactive T cells with gut microbial ecology. Nature communications, 10(1), 4877.

Adam I, et al. (2018) Upregulation of tryptophanyl-tRNA synthetase adapts human cancer cells to nutritional stress caused by tryptophan degradation. Oncoimmunology, 7(12), e1486353.