



# Mice Deficient in Phosphorylation of Eukaryotic Translation Initiation Factor 2 Alpha (eIF2 $\alpha$ )

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## Category

Research Tools and Reagents

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## INNOVATION

The Eif2a<sup>S51A</sup> mutation in these mice prevents phosphorylation of the  $\alpha$  subunit of eIF2. Phosphorylation of eIF2 $\alpha$  in the endoplasmic reticulum (ER) is required for translational regulation, transcriptional induction, and survival in response to ER stress. These Eif2s1 knock-out mice lack translational and transcriptional regulation in the endoplasmic reticulum. These mice may be useful in diabetes research.

## ADDITIONAL DETAILS

Jackson <https://www.jax.org/strain/017601>