Fox-1 Transgenic Mice

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INNOVATION

UCLA researchers have developed transgenic mice in which two exons of the *Fox-1* (Rbfox1, A2BP1) gene are flanked by *loxP* sites to permit deletion of the gene when the mice are crossed to mice expressing Cre recombinase. Fox-1 is an RNA-binding protein that regulates the alternative splicing of multiple transcripts in neurons. Human Fox-1 has been implicated in various neurodevelopmental disorders, including epilepsy, mental retardation and autism spectrum disorder. These mice are valuable neurological disease models and can be used to understand the development and mature function of the mammalian CNS.

APPLICATIONS

- This mouse strain allows researchers to delete Fox-1 in the tissue or cell type of interest.

RELATED MATERIALS

- Kuroyanagi H. Fox-1 family of RNA-binding proteins. Cell Mol Life Sci. 2009 Dec;66(24):3895-907.
- Additional Information on Mouse Strain #014089 from The Jackson Laboratory

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- Fox-2 Transgenic Mice

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OTHER INFORMATION

KEYWORDS

Research tools; mouse model

CATEGORIZED AS

- **Research Tools**
  - Animal Models

RELATED CASES

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