

RESEARCH AFFAIRSOffice of Innovation and Commercialization

Request Information Permalink

TRM: Islet-mER-Cre-mER Mice

Tech ID: 31634 / UC Case 2014-077-0

BACKGROUND

Insulin gene enhancer protein ISL-1 or ISL1 transcription factor, LIM/homeodomain is a highly conserved gene (UniProtKB-P61371). It binds to insulin gene enhancer sequences and is necessary for heart development. In addition, it plays an essential role in the gene regulatory network crucial for retinal ganglion cell (RGC) differentiation.

TECHNOLOGY DESCRIPTION

These targeted mutation knock-in mice have a tamoxifen inducible Cre-mediated recombination system ("MerCreMer") driven by the endogenous IsI1 (ISL1 transcription factor, LIM/homeodomain) promoter.

APPLICATIONS

These mice may be useful for generating conditional mutations for studying cell lineages during development of the nervous system, heart, pituitary gland, pancreas and stomach.

STATE OF DEVELOPMENT

The mice are designated Tangible Research Material (TRM). A complete description, including genotyping, phenotyping, etc is found at The Jackson Lab cat. No. 029566; https://www.jax.org/strain/029566

INTELLECTUAL PROPERTY INFO

Academic and non-profit institutions please order directly from The Jackson Laboratory. Commercial entities require a license from UC San Diego contact (https://innovation.ucsd.edu/contact/).

CONTACT

University of California, San Diego Office of Innovation and Commercialization innovation@ucsd.edu tel: 858.534.5815.



OTHER INFORMATION

KEYWORDS

DNA-binding, Activator,

Developmental protein, transcription

regulation

CATEGORIZED AS

- ▶ Medical
 - ▶ Research Tools
- ► Research Tools
 - Animal Models

RELATED CASES

2014-077-0

University of California, San Diego
Office of Innovation and Commercialization
9500 Gilman Drive, MC 0910, ,
La Jolla, CA 92093-0910

Tel: 858.534.5815
innovation@ucsd.edu
https://innovation.ucsd.edu
Fax: 858.534.7345

© 2019, The Regents of the University of California Terms of use Privacy Notice