TRM: Tbx18-CreERT2 Mice

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BACKGROUND

The TBX18 (T-box 18) transcription factor is a key player in the formation of the sinoatrial node (SAN) formation during embryonic development.

TECHNOLOGY DESCRIPTION

The Tbx18-CreERT2 knock-in/knock-out allele has the endogenous T-box18 promoter/enhancer sequences directing expression of tamoxifen-inducible Cre recombinase.

APPLICATIONS

These mice allow specific and inducible genetic manipulations *in vivo* for studying pericytes and vascular smooth muscle cells in multiple tissues, as well as proepicardium/epicardium cell lineages and pacemaker cells of the sino-atrial node.

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. 031520; https://www.jax.org/search?q=031520

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/).

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OTHER INFORMATION

KEYWORDS

Sinoatrial node, embryonic development, pacemaker cells

CATEGORIZED AS

- **Medical**
  - Research Tools
- **Research Tools**
  - Animal Models

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