

TRM: ISL-1 Cre Mice

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BACKGROUND

Insulin gene enhancer protein ISL-1 or ISL1 transcription factor, LIM/homeodomain is a highly conserved gene. It binds to insulin gene enhancer sequences and is necessary for heart development

TECHNOLOGY DESCRIPTION

Isl1Cre mice express Cre recombinase under the control of the endogenous ISL1 transcription factor, LIM/homeodomain (Isl1) promoter. ISL1 is expressed in undifferentiated cardiac progenitors and hindlimb progenitors. Expression in both locations is downregulated as these cells migrate into the heart or limb, respectively. Isl1 expression is abolished in this strain.

APPLICATIONS

Isl1Cre mice express Cre recombinase under the control of the ISL1 transcription factor, LIM/homeodomain promoter and are an effective tool for studying heart and limb abnormalities.

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.024242 ; <https://www.jax.org/strain/024242>

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

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OTHER INFORMATION

KEYWORDS

Insulin gene enhancer protein ISL-1,

cardiac progenitors, heart

development

CATEGORIZED AS

- ▶ Medical
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