Resource Summary Report

Generated by T1D on Sep 6, 2026

ISL1-Cre

RRID:NSRRC_0040
Type: Organism

Proper Citation

RRID:NSRRC_0040

Organism Information

URL: https://nsrrc.missouri.edu/StrainAvail/

Proper Citation: RRID:NSRRC_0040

Description: Application: Cardiovascular

Species: Sus scrofa

Notes: Application: Cardiovascular

Phenotype: congential heart defects

Affected Gene: ISL1

Genomic Alteration: Transgene: ISL1 - tissue specific expression of CRE

Catalog Number: 40

Background: outbred

Database: NSRRC, National Swine Resource and Research Center (NSRRC)

Database Abbreviation: NSRRC

Organism Name: ISL1-Cre

Record Creation Time: 20230226T235432+0000

Record Last Update: 20260905T172706+0000

Ratings and Alerts

No rating or validation information has been found for ISL1-Cre.

No alerts have been found for ISL1-Cre.

Data and Source Information

Source: Integrated Animals

Source Database: NSRRC, National Swine Resource and Research Center (NSRRC)

Usage and Citation Metrics

We found 12 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Kolesova H, et al. (2024) Reprogramming of the developing heart by Hif1a-deficient sympathetic system and maternal diabetes exposure. Frontiers in endocrinology, 15, 1344074.

Chi L, et al. (2023) G9a inactivation in progenitor cells with Isl1-Cre with reduced recombinase activity models aspects of Dandy-Walker complex. Biology open, 12(8).

Abed S, et al. (2022) Adult Expression of Tbr2 Is Required for the Maintenance but Not Survival of Intrinsically Photosensitive Retinal Ganglion Cells. Frontiers in cellular neuroscience, 16, 826590.

Kastriti ME, et al. (2022) Schwann cell precursors represent a neural crest-like state with biased multipotency. The EMBO journal, 41(17), e108780.

Romanov RA, et al. (2020) Molecular design of hypothalamus development. Nature, 582(7811), 246.

Maruyama K, et al. (2019) Isl1-expressing non-venous cell lineage contributes to cardiac lymphatic vessel development. Developmental biology, 452(2), 134.

Richardson R, et al. (2018) Development and maturation of the fibrous components of the arterial roots in the mouse heart. Journal of anatomy, 232(4), 554.

Fujii M, et al. (2017) Sfrp5 identifies murine cardiac progenitors for all myocardial structures except for the right ventricle. Nature communications, 8, 14664.

Yuan X, et al. (2017) Disruption of spatiotemporal hypoxic signaling causes congenital heart disease in mice. The Journal of clinical investigation, 127(6), 2235.

Dorn T, et al. (2015) Direct nkx2-5 transcriptional repression of isl1 controls cardiomyocyte subtype identity. Stem cells (Dayton, Ohio), 33(4), 1113.

Etheridge SL, et al. (2008) Murine dishevelled 3 functions in redundant pathways with dishevelled 1 and 2 in normal cardiac outflow tract, cochlea, and neural tube development. PLoS genetics, 4(11), e1000259.

Srinivas S, et al. (2001) Cre reporter strains produced by targeted insertion of EYFP and ECFP into the ROSA26 locus. BMC developmental biology, 1, 4.