

Resource Summary Report

Generated by SPARC SAWG on Sep 5, 2026

ISL1-Cre

RRID:NSRRC_0040

Type: Organism

Proper Citation

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Organism Information

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

Proper Citation: RRID:NSRRC_0040

Description: Application: Cardiovascular

Species: Sus scrofa

Notes: Application: Cardiovascular

Phenotype: congenital 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 [SPARC SAWG](#) .

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.