

Resource Summary Report

Generated by [RRID](#) on Jul 30, 2026

B6;129S-Sox2^{tm1}(cre/ERT2)Hoch/J

RRID:IMSR_JAX:017593

Type: Organism

Proper Citation

RRID:IMSR_JAX:017593

Organism Information

URL: <https://www.jax.org/strain/017593>

Proper Citation: RRID:IMSR_JAX:017593

Description: Mus musculus with name B6;129S-Sox2^{tm1}(cre/ERT2)Hoch/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 (human) fusion gene|SRY (sex determining region Y)-box 2; mutant stock: cre/ERT2|Sox2

Affected Gene: Cre recombinase and estrogen receptor 1 (human) fusion gene|SRY (sex determining region Y)-box 2

Genomic Alteration: targeted mutation 1; Konrad Hochedlinger

Catalog Number: JAX:017593

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;129S-Sox2^{tm1}(cre/ERT2)Hoch/J

Record Creation Time: 20250513T053733+0000

Record Last Update: 20260725T044441+0000

Ratings and Alerts

No rating or validation information has been found for B6;129S-Sox2^{tm1}(cre/ERT2)Hoch/J.

No alerts have been found for B6;129S-Sox2^{tm1(cre/ERT2)}Hoch/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 36 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#).

Yang X, et al. (2025) Protocol for the in vivo tracing of alveolar type I cells from mice using two distinct dual recombinase-mediated genetic approaches. STAR protocols, 6(1), 103648.

Liu K, et al. (2024) Tracing the origin of alveolar stem cells in lung repair and regeneration. Cell, 187(10), 2428.

Cheung G, et al. (2024) Multipotent progenitors instruct ontogeny of the superior colliculus. Neuron, 112(2), 230.

Lehr S, et al. (2024) Self-organized pattern formation in the developing mouse neural tube by a temporal relay of BMP signaling. Developmental cell.

Warren R, et al. (2024) Cell competition drives bronchiolization and pulmonary fibrosis. Nature communications, 15(1), 10624.

Krammer T, et al. (2024) Mouse neural tube organoids self-organize floorplate through BMP-mediated cluster competition. Developmental cell, 59(15), 1940.

Lv Z, et al. (2024) Alveolar regeneration by airway secretory-cell-derived p63+ progenitors. Cell stem cell, 31(11), 1685.

Grommisch D, et al. (2024) Protocol to establish mouse esophageal epithelial whole mounts for lineage tracing or immunofluorescent analysis. STAR protocols, 5(4), 103340.

Guo T, et al. (2024) Vascular architecture regulates mesenchymal stromal cell heterogeneity via P53-PDGF signaling in the mouse incisor. Cell stem cell, 31(6), 904.

Warren R, et al. (2024) Cell competition drives bronchiolization and pulmonary fibrosis. Research square.

Grommisch D, et al. (2024) Defining the contribution of Troy-positive progenitor cells to the mouse esophageal epithelium. Developmental cell, 59(10), 1269.

Yang JL, et al. (2023) Transient neurogenesis in ischemic cortex from Sox2+ astrocytes. Neural regeneration research, 18(7), 1521.

Ohmoto M, et al. (2022) Maintenance and turnover of Sox2+ adult stem cells in the gustatory epithelium. PloS one, 17(9), e0267683.

Ji YR, et al. (2022) Function of bidirectional sensitivity in the otolith organs established by transcription factor Emx2. Nature communications, 13(1), 6330.

Lyu H, et al. (2022) Niche-mediated repair of airways is directed in an occupant-dependent manner. Cell reports, 41(12), 111863.

Weiner AI, et al. (2022) ?Np63 drives dysplastic alveolar remodeling and restricts epithelial plasticity upon severe lung injury. Cell reports, 41(11), 111805.

Liberti DC, et al. (2022) Klf5 defines alveolar epithelial type 1 cell lineage commitment during lung development and regeneration. Developmental cell, 57(14), 1742.

Zhang T, et al. (2021) Generation of excitatory and inhibitory neurons from common progenitors via Notch signaling in the cerebellum. Cell reports, 35(10), 109208.

Hertzano R, et al. (2021) Cell Type-Specific Expression Analysis of the Inner Ear: A Technical Report. The Laryngoscope, 131 Suppl 5(Suppl 5), S1.

Milon B, et al. (2021) A cell-type-specific atlas of the inner ear transcriptional response to acoustic trauma. Cell reports, 36(13), 109758.