Isl1-CreERT2

Nomenclature	C57BL/6Smoc-Isl1 ^{em1(CreERT2) Smoc}
Cat. NO.	NM-KI-00013
Strain State	Embryo cryopreservation

Gene Summary

Gene Symbol Isl1	Synonyms	-
	NCBI ID	<u>16392</u>
	MGI ID	<u>101791</u>
	Ensembl ID	ENSMUSG0000042258
	Human Ortholog	ISL1

Model Description

CreERT2 was inserted at the start codon (ATG site). The KI mice have a tamoxifen-inducible cremediated recombination system.

Research Application: Cre recombinase tool

*Literature published using this strain should indicate: Isl1-CreERT2 mice (Cat. NO. NM-KI-00013) were purchased from Shanghai Model Organisms Center, Inc..

Validation Data



IsI1-CreER;R26-tdTomato



tdTomato

Fig. 1 CreERT2-mediated recombination in the heart of Isl1^{CreERT2/+}; R26^{tdtomato/+} mouse embryo at E13.5. The Isl1⁺ cell lineage (tdTomato) mainly contributes to the right ventricle at E13.5 of Isl1^{CreERT2/+}; R26^{tdtomato/+}. Tamoxifen was induced at E8.0. (Documented in the following reference.)

Publications

<u>Genetic Lineage Tracing of Nonmyocyte Population by Dual Recombinases</u> References: Circulation