

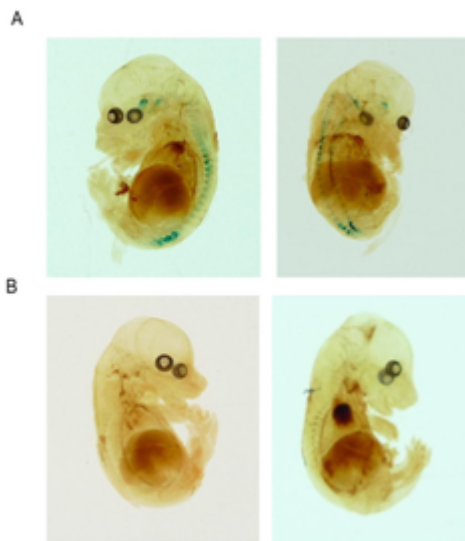
Advillin-Cre-ER(T2)

An inducible Cre transgenic mouse useful for analysing gene function in sensory neurons

Category

Biological Materials/Genetically Modified Organisms

Advillin-Cre-ER(T2) mice



Left panel; Tamoxifen induces recombination in the DRG of adult *AvCreERT2* mouse.

Animals were injected (ip) for 5 consecutive days (2 mg per day). **A** - X-gal staining of adult DRG neurons from induced and un-induced mice. Neutral red was used for counterstaining. **B** - Quantification of recombination events in DRG of untreated and tamoxifen-treated animals. Data are presented as mean \pm SEM. Statistical analysis - unpaired T-test, $p \leq 0.01$. Scale bars = 40 μ m.

Right panel tamoxifen induces Cre-expression during embryonic development. **A** - E18.5 *AvCreERT2*-positive embryos from tamoxifen treated pregnant females (2 mg per day, 5 days). **B** - E18.5 *AvCreERT2*-positive embryos from vehicle treated pregnant females.

Treatment of Advillin Cre-erT2 deleter mice with tamoxifen results in gene deletion in 90% of sensory neurons found in dorsal root ganglia. This activity is specific and does not occur in other tissues. For full technical details see Lau et al. [Mol Pain](#). 2011 Dec 21;7:100. (open access Journal)

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References

1. Lau(2011) , <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3260248/>,
<http://www.molecularpain.com/>, 7, 100