

Sox10-GFP/tdTom

This is a dual-reporter mouse line Sox10-lox-eGFP-STOP-lox-tdTomato (referred to as Sox10-GFP/td-Tom), designed for studies of oligodendrocyte (OL) lineage cells and generated by PAC transgenesis. Recombination under the influence of Cre leads to the expression of tdTomato instead of GFP. A majority of OL lineage cells (95%) in the corpus callosum expresses the transgene.

Sox10 dual reporter (green fluorescent protein/ tandem-duplicated Tomato).Sox10-lox-GFP-STOP-lox-tdTomato mice.

We used a 120 kb Notl fragment of the *Sox10* genomic PAC (RP21-427-F18), which includes 60 kb upstream and 50 kb downstream of *Sox10*. The genomic region spanning exons 3–5 was replaced by *loxP-eGFP-polyAx4-loxP-tdTomato-frt-Cm^R-frt* by homologous recombination in *E. coli*. The *Cm^R* cassette was removed by transient activation of Flp recombinase with arabinose. Founders were generated by pronuclear injection. Several founders transmitted the transgene in roughly Mendelian ratios and expressed GFP strongly in the expected pattern. One male founder was used to establish a line for further study. For further details of the line and its use see Tripathi et al. (2011). Dorsally- and ventrally-derived oligodendrocytes have similar electrical properties but myelinate preferred tracts. *J. Neurosci.* 31, 6809-6819. http://www.ncbi.nlm.nih.gov/pubmed/21543611.

Placing an order on XIP

To license this product, please select the **appropriate licence option** on the right-hand side of this page. Terms can be previewed from the "Preview terms" link.

MTAs require agreement between all the parties involved in supplying and receiving a product. This cannot happen instantaneously but is a controlled process, managed through XIP and should not take longer no than 10 business days in ordinary circumstances.

To place an order, please locate the <u>Sign-in</u> or <u>Registe</u>r options on the top right side of this page. You can either sign in to your existing account or register for a new now. **Please note that your account should be created using your academic/ institutional e-mail address.**

For additional guidance on how to create an account and place an order, refer to the FAQs.

References

 Richardson, Attwell, Anderson, Kessaris, Burzomato, Clarke, Tripathi(2011), http://www.ncbi.nlm.nih.gov/pubmed/21543611, http://www.jneurosci.org, 31(18), 6809-19

Category

Biological Materials/Genetically Modified Organisms