

Guide to source data for: G3 article DOI: 10.1534/g3.118.200809

Title: *GAL4* drivers specific for Type Ib and Type Is motor neurons in *Drosophila*

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Article Description:

The *Drosophila melanogaster* larval neuromuscular system is extensively used by researchers to study neuronal cell biology, and *Drosophila* glutamatergic motor neurons have become a major model system. There are two main Types of glutamatergic motor neurons, Ib and Is, with different structural and physiological properties at synaptic level at the neuromuscular junction. To generate genetic tools to identify and manipulate motor neurons of each Type, we screened for *GAL4* driver lines for this purpose. Here we describe *GAL4* drivers specific for examples of neurons within each Type, Ib or Is. These drivers showed high expression levels and were expressed in only few motor neurons, making them amenable tools for specific studies of both axonal and synapse biology in identified Type I motor neurons.

Dataset Description:

The supporting data includes microscopy images for each figure presented in the paper:

- Original Figures shown in the article, in both **.ai** and **.pdf** formats, which were made using Adobe Illustrator.
- Microscopy images for each figure: **.nd2** files are the raw data collected with Nikon EZ-C1 acquisition software; **.tif** files, generated with Fiji from **.nd2** files, are progressive steps in data processing.

Files are organized within folders and subfolders, ordered by Figure and Figure Panel. Within panels, subfolders contain progressive steps in data processing, from raw data to final figure panels. The data processing performed is described in the corresponding file name. For some Figures, we provide microscopy images from additional examples to those shown in the article.

All the information about each Figure can be found in the article “DOI: 10.1534/g3.118.200809” (open access).

Software

Windows OS Software: Nikon EZ-C1 acquisition software.

MAC OSX Software: Adobe Illustrator CC 2017; Fiji (ImageJ 2.0.0-rc-68/1.52i) “<https://downloads.imagej.net/fiji/latest/fiji-macosx.zip>”

File Formats:

.ai – Adobe Illustrator (PDF-compatible)

.pdf – Layered Adobe PDF format. Keep edition capabilities from Adobe Illustrator.

.nd2 – Nikon confocal files, open with Fiji or with LOCI BioFormats.

.tif – tif image file. Note that some tif files are multilayered.

.zip – Files are zipped because their filenames contain characters disallowed on some file systems. You will need to decompress before accessing them.

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