**Supplemental Table T2. Reagent sources.** The source, reference number and RRID (if available) are listed for each of the biochemical and genetic reagents used in this study.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Reagent** | **Expt.** | **Conc** | **Source** | **Ref#**  | **RRID** |
| Mouse-anti-V5 (monoclonal) | MCFO | 1/500 |  ThermoFisher | MA5-15253 | AB\_10977225 |
| Rabbit-anti-ΗA (monoclonal) | MCFO | 1/300 | Cell Signaling Technology, Danvers, MA | 3724 | AB\_1549585 |
| Rat-anti-FLAG (monoclonal) | MCFO | 1/200 | Novus Biologicals | NBP1-06712 | AB\_1625981 |
| Goat anti-Mouse-Alexa Fluor488 | MCFOIHC | 1/500 | ThermoFisher | A-32723 | AB\_2633275 |
| Goat anti-Rabbit-Alexa Fluor 555 | MCFOIHC | 1/500 | ThermoFisher | A-21428 | AB\_2535849 |
| Goat anti-Rat-AlexaFluro633 | MCFO | 1/500 | ThermoFisher | **A-21094** | AB\_2535749 |
| Mouse anti-GFP (monoclonal) | IHC | 1/500 | Sigma-Aldrich | G6539 | AB\_259941 |
| Rabbit anti-dsRED | IHC | 1/500 | Takara  | 632496 | AB\_10013483 |
| Streptavidin-AlexaFluor555 | ephys |  | ThermoFisher | S-21381 |  |
| Biocytin | ephys |  | Sigma-Aldrich | B1758 |  |
| Picrotoxin  | ephys |  | Sigma-Aldrich  | P8390 |  |
| Ivermectin | ephys |  | Sigma-Aldrich  | I8898 |  |
| Fluoromount-G  | MCFOIHC |  | SouthernBiotech  | 0100-01 |  |
| DAPI | IHC |  | Sigma-Aldrich  | D9542 |  |
| AF555-conjugated Phalloidin  | IHC | 1/500 | Invitrogen | A34055 |  |
| *UAS-MCFO-7* | MCFO |  | Bloomington *Drosophila* stock center | 64091 |  |
| *Tdc2-Gal4* | Optogenet |  | Bloomington *Drosophila* stock center | 9313 |  |
| *UAS-ChR2XXM-TdTomato* | Optogenet |  | Dr. Robert Kittel(University ofWürzberg) | --- |  |
| *LexAop::CD2-RFP, UAS::mCD8-GFP* | IHC |  | Bloomington *Drosophila* stock center | 67093 |  |
| *J399342-Gal4* | IHCOptogenet |  | Bloomington *Drosophila* stock center | 39942 |  |
| *Tdc2-LexA* | IHC |  | Bloomington *Drosophila* stock center | 52242 |  |
| *GluCl-MiMIC-T2A-Gal4* | IHC |  | Bloomington *Drosophila* stock center | 77841 |  |