**Supplementary File 4. Primers**

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| Primers for genotyping |
| Reagent or resource | Source | Identifier | Additional information |
| Hipp11 WT-Fw: TGGAGGAGGACAAACTGGTCA | Li et al., 2021 | YJ12520 | 323bp (*Dlk* Wild-type)~500bp (*DlkOE* mutant) |
| Hipp11 WT-Re: TTCCCTTTCTGCTTCATCTTGC | Li et al., 2021 | YJ12521 |
| CAG-Re: CATATATGGGCTATGAACTAATGACCCCGT | Li et al., 2021 | YJ12522 |
| Map3k12fl/fl-Fw: GATGATTGCTAGTCATGGAGTAGTAGG | Li et al., 2021 | YJ12523 | 350bp (*Dlk* Wild-type)500bp (*Dlkfl/fl* mutant) |
| Map3k12fl/fl-Re: GGTGGTGTTATCATAGTTCCATCATG | Li et al., 2021 | YJ12524 |
| RiboTag Fw: GGGAGGCTTGCTGGATATG | Sanz et al., 2009 |  | 260bp (WT)290bp (floxed allele) |
| RiboTag Re: TTTCCAGACACAGGCTAAGTA | Sanz et al., 2009 |  |
| Slc17a7-cre Re: CCCTAGGAATGCTCGTCA AG | The Jackson Laboratory | 12231 | 218bp (WT)344bp (mutant) |
| Slc17a7-cre Fw: ATGAGCGAGGAGAAGTGTGG | The Jackson Laboratory | 17904 |
| Slc17a7-cre Re: GTGGAAGTCCTGGAAACTGC | The Jackson Laboratory | 17905 |
| Cre Fw: AGAACCTGAAGATGTTCGCG |  |  | ~330bp (mutant)No band WT |
| Cre Re: GGCTATACGTAACAGGGTGT |  |  |
| Rosa tdTomato Re: GGCATTAAAGCAGCGTATCC | The Jackson Laboratory | oIMR9103 | 196bp (mutant)297bp (WT) |
| Rosa tdTomato Fw: CTGTTCCTGTACGGCATGG | The Jackson Laboratory | oIMR9105 |
| WT tdTomato Fw: AAGGGAGCTGCAGRGGAGTA | The Jackson Laboratory | oIMR9020 |
| WT tdTomato Re: CCGAAAATGTGTGGGAAGTC | The Jackson Laboratory | oIMR9021 |
| Primers for qRT-PCR |
| Reagent or resource | Source |
| Gapdh-Fw: GCTTGTCATCAACGGGAAG | Furlanis et al., 2019 |
| Gapdh-Re: TTGTCATATTTCTCGTGGTTCA | Furlanis et al., 2019 |
| Vgat-Fw: CGTGACAAATGCCATTCAG | Furlanis et al., 2019 |
| Vgat-Re: AAGATGATGAGGAACAACCC | Furlanis et al., 2019 |
| Slc17a7-Fw: ACCCTGTTACGAAGTTTAACAC | Furlanis et al., 2019 |
| Slc17a7-Re: CAGGTAGAAGGTCCAGCTG | Furlanis et al., 2019 |
| Wsf1-Fw: CATCATTCCCACCAACCTG | Furlanis et al., 2019 |
| Wsf1-Re: TACTTCACCACCTTCTGGC | Furlanis et al., 2019 |
| Gfap-Fw: CTCGTGTGGATTTGGAGAG | Furlanis et al., 2019 |
| Gfap-Re: AGTTCTCGAACTTCCTCCT | Furlanis et al., 2019 |