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| **Gene** | **gRNA sequence (5’->3’)** |
| *Obp8a* | 1: GGTGAGGATCGCATGGGCAC2: GCTGGACAGGATGCAGTTCG3: ACATGTCCGATGTCATCAAT |
| *Obp22a* | 1: AATTGTAAGCGAGTGTGCCA2: GAACAATGTTCATAGGAAGA3: AAAGTGAGGGGGATAGATAG |
| *Obp51a* | 1: TGACAGCTAACAACAGAACC2: GAACGAATGTGCTAAAAAAC3: TAAATTCTCGTTTCAAGCAC |
| *Obp56e* | 1: TGAGGCTAAGCAGAGAGCCA2: CAAGCTATTGCCCTGCGGTC3: GCCAAGTGTGACTCGACCAA |
| *Obp56f* | 1: AGCCTGCTTGAAACGGCAGC2: CACTGCTTACTGGAAGTGAA3: ATGTTTAGAAGTCTAATGCT |
| *Obp56g* | 1: GCAAGCCAACATAGACAGTT2: CGGTGTCACTCCCCAGGATC3: CGGATCGTTAAGACCCTAAT |
| *Obp56i* | 1: GGTACAAGCAGGTCCCATTA2: CGTCATGAGACCGACGACCC3: CGAAGAACTCGAAATCACAG |
| *ebony* (gRNA sequence from Kane et al., 2017) | GCCACAATTGTCGATCGTCA |

**Table S1 (Supplementary file 1):** gRNA sequences from flyCRISPR’s Optimal Target Finder tool for each *Obp* gene.