Supplementary Table 1

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| **Figure** | **Genotype** |
| Figure 1A-C | *npf-Gal4*/+ |
| Figure 1A-C | *UAS-Shibirets*/+ |
| Figure 1A-C | *npf-Gal4*/+;*UAS-Shibirets*/+ |
| Figure 1F-K | *w1118-CS* |
| Figure 1F-K | *npfLexA*/*npf1* |
| Figure 1F-K | P[*g*-*npf+*]/P[*g*-*npf+*];*npfLexA*/*npfLexA* |
| Figure 2A-D | *npfLexA*/*LexAop-IVS-CsChrimson.mVenus* |
| Figure 2E | *fruFLP*/+ |
| Figure 2E | *fruFLP*/*fruFLP* |
| Figure 3E-J | *LexAop*(*FRT.mCherry*)*ReaChR.mCitrine*/+;*npfLexA*/*fruFLP* |
| Figure 4A | *npf-Gal4/+*;*fruFLP*/*+* |
| Figure 4A | *UAS>stop>Shibirets*/+ |
| Figure 4A | *UAS>Shibirets>stop*/+ |
| Figure 4A | *npf-Gal4*/*UAS>stop>Shibirets;fruFLP*/*+* |
| Figure 4A | *npf-Gal4*/*UAS>Shibirets>stop* |
| Figure 4A | *npf-Gal4*/*UAS>Shibirets>stop;fruFLP*/*+* |
| Figure 4B | *npf-Gal4*/*+*;*fruFLP*/*+* |
| Figure 4B | *UAS>stop>dTrpA1*/+ |
| Figure 4B | *npf-Gal4*/*UAS>stop>dTrpA1* |
| Figure 4B | *npf-Gal4*/*UAS>stop>dTrpA1;fruFLP*/*+* |
| Figure 4C-E | *npf-Gal4*/+ |
| Figure 4C-E | *UAS-npf-RNAi*/+ |
| Figure 4C-E | *npf-Gal4*/+;*UAS-npf-RNAi*/+ |
| Figure 4F | *UAS-npf-RNAi*/+ |
| Figure 4F | *elav-Gal4*/+ |
| Figure 4F | *npf-Gal4*/+ |
| Figure 4F | *NP21-Gal4*/+ |
| Figure 4F | *elav-Gal4*/+;*UAS-npf-RNAi*/+ |
| Figure 4F | *npf-Gal4*/+;*UAS-npf-RNAi*/+ |
| Figure 4F | *NP21-Gal4*/*UAS-npf-RNAi* |
| Figure 4F | *tub>stop>Gal80*/+;*fruFLP*/+ |
| Figure 4F | *tub>Gal80>stop*/+;*fruFLP*/+ |
| Figure 4F | *npf-Gal4/tub>stop>Gal80*;*fruFLP*/*UAS-npf-RNAi* |
| Figure 4F | *npf-Gal4/tub>Gal80>stop*;*fruFLP*/*UAS-npf-RNAi* |
| Figure 5A-B | *UAS-CD4-spGFP1-10*,*lexAop-CD4-spGFP11*/*NP21-Gal4*,*npfLexA* |
| Figure 5C | *UAS-CD4-spGFP1-10*,*lexAop-CD4-spGFP11*/*NP21-Gal4* |
| Figure 5D-F | *UAS*(*FRT.STOP*)*mCD8::GFP*/*LexAop2*(*FRT.STOP*)*myr::smGdP-V5*;*R71G01-Gal4*,*npfLexA*/*fruFLP* |
| Figure 5G-H | *UAS-CD4-spGFP1-10*,*lexAop-CD4-spGFP11*/*R71G01-Gal4*,*npfLexA* |
| Figure 5I | *UAS-CD4-spGFP1-10*,*lexAop-CD4-spGFP11*/*R71G01-Gal4* |
| Figure 6A-C | *UAS-GCaMP3*,*LexAopP2X2*/*R71G01-LexA*;*npf-Gal4*/*+* |
| Figure 6A-C | *npf-Gal4*/+;*UAS-GCaMP3*,*LexAopP2X2*/+ |
| Figure 6D-F | *UAS-P2X2*,*LexAop-GCaMP3*/*R15A01-AD*;*npfLexA*/*R71G01-DBD* |
| Figure 6D-F | *UAS-P2X2,LexAop-GCaMP3*/+;*npfLexA*/+ |
| Figure 7A-C | *npf-Gal4*/+;*UAS-Shibirets*/+ |
| Figure 7A-C | *R71G01-Gal4*/*UAS-Shibirets* |
| Figure 7A-C | *npf-Gal4*/+;*R71G01-Gal4*/*UAS-Shibirets* |
| Figure 7D-F | *UAS-mCD8::GFP.L*,*UAS-mCD8::GFP.L*/+;*R71G01-Gal4*/*npfrLexA*,*LexAop2-6XmCherry-HA* |
| Figure 7G | *w1118-CS* |
| Figure 7G | *npfrLexA*/*npfrLexA* |
| Figure 7G | *npfrLexA*/*npfrc01896* |
| Figure 7H | *UAS-npfr-RNA-RNAi*/+ |
| Figure 7H | *elav-Gal4*/*UAS-npfr-RNA-RNAi* |
| Figure 7H | *UAS-npfr-RNA-RNAi*/+;*R71G01-Gal4*/+ |
| Figure 8A and B | *UAS-spGFP1-10*,*LexAop-spGFP11*/*R71G01-Gal4*,*npfrLexA* |
| Figure 8C-E | *UAS-GCaMP3*,*LexAopP2X2*/+;*R71G01-Gal4*/*npfrLexA* |
| Figure 8C-E | *UAS-GCaMP3*,*LexAopP2X2*/+;*R71G01-Gal4*/+ |
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| Figure 1-figure supplement 1 | *npf-Gal4*/+ |
| Figure 1-figure supplement 1 | *UAS-Kir2.1*/+ |
| Figure 1-figure supplement 1 | *UAS-DTI*/+ |
| Figure 1-figure supplement 1 | *UAS-NaChBac*/+ |
| Figure 1-figure supplement 1 | *UAS-npf-cDNA*/+ |
| Figure 1-figure supplement 1 | *npf-Gal4*/*UAS-Kir2.1* |
| Figure 1-figure supplement 1 | *npf-Gal4*/*UAS-DTI* |
| Figure 1-figure supplement 1 | *npf-Gal4*/*UAS-NaChBac* |
| Figure 1-figure supplement 1 | *npf-Gal4*/*UAS-npf-cDNA* |
| Figure 1-figure supplement 2B | *w1118* |
| Figure 1-figure supplement 2C | *npfLexA*/*npfLexA* |
| Figure 1-figure supplement 2D | P[*g*-*npf+*]/P[*g*-*npf+*];*npfLexA*/*npfLexA* |
| Figure 1-figure supplement 2E | *npf1*/*npf1* |
| Figure 1-figure supplement 2F and G | *w1118-CS* |
| Figure 1-figure supplement 2F and G | *npfLexA*/*npfLexA* |
| Figure 1-figure supplement 2F and G | *npf1*/*npf1* |
| Figure 2-figure supplement 1 | *w1118* |
| Figure 5-figure supplement 2 | *UAS-IVS-mCD8::RFP*,*LexAop2-mCD8::GFP*/+;*npfLexA*/*R71G01-Gal4* |
| Figure 5-figure supplement 3A | *UAS-DenMark*,*UAS-syt::eGFP*/+;*R71G01-Gal4*/+ |
| Figure 5-figure supplement 3B | *npf-Gal4*/*UAS-DenMark*,*UAS-syt::GFP* |
| Figure 5-figure supplement 3C | *npf-Gal4*/*UAS*(*FRT.STOP*)*mCD8::GFP*;*fruFLP*/+ |
| Figure 6-figure supplement 1 | *UAS-P2X2*,*LexAopGCaMP3*/+;*R71G01-Gal4*,*npfLexA*/+ |
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| Video 1 | *LexAop*(*FRT.mCherry*)*mCitrine*/+;*npfLexA*/*fruFLP* |
| Video 2 | *UAS*(*FRT.stop*)*mCD8::GFP*/*LexAop*(*FRT.stop*)*myr::smGdP-V5*;*R71G01-Gal4*,*npfLexA*/*fruFLP* |
| Video 3 | *UAS-GCaMP3*,*LexAopP2X2*/*R71G01-LexA*;*npf-Gal4*/+ |
| Video 4 | *UAS-P2X2*,*LexAopGCaMP3*/+;*R71G01-Gal4,npfLexA*/+ |
| Video 5 | *UAS-GCaMP3*,*LexAopP2X2*/+;*R71G01-Gal4*/*npfrLexA* |