|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **DAPI** | **GFP** | **RFP** | **Overlay** |
| **1**  *da-Gal4*  *(BL55850)*  larval salivary glands | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:HR_FF_da larvae 6 dapi.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:HR_FF_da larvae 6 gfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:HR_FF_da larvae 6 rfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:Overlay_HR_FF_da larvae 6.jpg |
| **2**  *tub-Gal4*  *(BL5138)*  larval salivary glands/fat body | Macintosh HD:Users:Julia:Pictures:overlays new:selected:tub:Overlay_HR_FF_tub larvae 1 dapi.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:selected:tub:Overlay_HR_FF_tub larvae 1 gfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:selected:tub:Overlay_HR_FF_tub larvae 1 rfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:selected:tub:Overlay_HR_FF_tub larvae 1 overlay.jpg |
| **3**  *act5C-Gal4*  *(BL4414)*  larval fat body | Macintosh HD:Users:Julia:Pictures:overlays new:selected:act5c 20 10:Overlay_HR_FF_act larvae G 1 dapi.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:selected:act5c 20 10:Overlay_HR_FF_act larvae G 1 gfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:selected:act5c 20 10:Overlay_HR_FF_act larvae G 1 rfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:Overlay_HR_FF_act larvae G 1.jpg |
| **4**  *act5C-Gal4*  *(BL4414)*  larval foregut | Macintosh HD:Users:Julia:Pictures:overlays new:selected:act5c 200 50:HR_FF_act larvae G 2 dapi.tif | Macintosh HD:Users:Julia:Pictures:overlays new:selected:act5c 200 50:HR_FF_act larvae G 2 gfp.tif | Macintosh HD:Users:Julia:Pictures:overlays new:selected:act5c 200 50:HR_FF_act larvae G 2 rfp.tif | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:Overlay_HR_FF_act larvae G 2.jpg |
| **5**  *da-Gal4*  *(BL55850)*  larval hindgut | Macintosh HD:Users:Julia:Pictures:overlays new:selected:da 100 25:Overlay_HR_FF_da larvae 5 dapi.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:selected:da 100 25:Overlay_HR_FF_da larvae 5 gfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:selected:da 100 25:Overlay_HR_FF_da larvae 5 RFP.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:selected:da 100 25:Overlay_HR_FF_da larvae 5overlay.jpg |
| **6**  *act5C-Gal4*  *(BL4414)*  larval wing disc | C:\Users\Li\Desktop\Dynamic Reporter processed\wing controls.tif (blue).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\wing controls.tif (green).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\wing controls.tif (red).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\wing controls.tif |
| **7**  *tub-Gal4*  *(BL5138)*  larval wing disc | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:HR_FF_tub larvae 7 dapi.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:HR_FF_tub larvae 7 gfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:HR_FF_tub larvae 7 rfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:Overlay_HR_FF_tub larvae 7-2.jpg |
| **8**  *ubi-Gal4*  *(BL32551)*  larval brain | C:\Users\Li\Desktop\Dynamic Reporter processed\MAX_Ubi2.tif (blue).tif |  |  | C:\Users\Li\Desktop\Dynamic Reporter processed\ubi disc.tif |
| **9**  *tub-Gal4*  *(BL5138)*  larval brain | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:Overlay_HR_FF_tub larvae 6 dapi.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:Overlay_HR_FF_tub larvae 6 gfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:Overlay_HR_FF_tub larvae 6 rfp.jpg | Macintosh HD:Users:Julia:Pictures:overlays new:modificados:Overlay_HR_FF_tub larvae 6 overlay.jpg |
| **10**  *tub-Gal4*  *(BL5138)*  larval eye disc | C:\Users\Li\Desktop\Dynamic Reporter processed\eyedisc.tif (blue).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\eyedisc.tif (green).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\eyedisc.tif (red).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\eyedisc.tif |
| **11**  *act5C-Gal4*  *(BL4414)*  larval brain | C:\Users\Li\Desktop\Dynamic Reporter processed\brain1.tif (blue).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\brain1.tif (green).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\brain1.tif (red).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\brain1.tif |
| **12**  *dMef-Gal4*  *(BL27390)*  larval muscle |  | C:\Users\Li\Desktop\Dynamic Reporter processed\muscle2.tif (green)1.tif | C:\Users\Li\Desktop\Dynamic Reporter processed\muscle2.tif (red)2.tif | C:\Users\Li\Desktop\Dynamic Reporter processed\muscle212.tif |
| **13**  *Dorothy-Gal4*  *(BL6903)*  adult midgut | C:\Users\Li\Desktop\Dynamic Reporter processed\Picture4.jpg (blue).tif | D:\program data\Dropbox\Li&joe\N8\N8_c2.jpg | D:\program data\Dropbox\Li&joe\N8\N8_c3.jpg | D:\program data\Dropbox\Li&joe\N8\N8_c1+2+3.jpg |
| **14**  *dMyc-Gal4*  *(BL47844)*  egg chamber | C:\Users\Li\Desktop\Dynamic Reporter processed\egg1.tif (blue).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\egg1.tif (green).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\egg1.tif (red).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\egg1.tif |
| **15**  *esg-Gal4*  adult midgut | C:\Users\Li\Desktop\Dynamic Reporter processed\gut esg.tif (blue).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\gut esg.tif (green).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\gut esg.tif (red).tif | C:\Users\Li\Desktop\Dynamic Reporter processed\gut esg.tif |

**Fig.3** GFP and RFP present different cellular localization. Examples in which is clearer the nuclear localization of RFP and both cytoplasmic and nuclear of GFP. Numbers indicate exposure times (in fractions of second).