

0-2 h Embryo 2-4 h Embryo 4-8 h Embryo 8-12 h Embryo Mixed Larva 1-2 d Pupa 1 d Whole Female 1 d Whole Male 4 d Male Head 4 d Male Thorax 4 d Male Abdomen 4 d Testes

SYG1

SYG2

SYG3

RPS4

Figure 1 displays RT-PCR analysis of *gYG* gene expression across various developmental stages and tissues of *Drosophila melanogaster*. The figure consists of four gel electrophoresis images, each representing a different gene: *gYG1*, *gYG2*, *gYG3*, and *RPS4* (loading control). The lanes are labeled with developmental stages and tissues: 0-2 h Embryo, 2-4 h Embryo, 6-8 h Embryo, 8-12 h Embryo, Mixed Larva, 1-2 d Pupa, 1 d Whole Female, 1 d Whole Male, 4 d Male Head, 4 d Male Thorax, 4 d Male Abdomen, and 4 d Testes. The *gYG1* and *gYG2* bands are present in most lanes, indicating widespread expression. The *gYG3* bands are only visible in the embryonic and pupal stages. The *RPS4* bands are present in all lanes, confirming equal loading.