



Figure S1 Structures of transgenic constructs containing fluorescent markers. (A) Construct 1. This construct includes *Gsd^{fY}*, *PG3* and *PG4*. Numbers above the thick bar indicate the length of the upstream, gene coding and downstream regions of the *Gsd^{fY}* gene in the fosmid construct. A fragment encoding crystallin-RFP and an ampicillin resistance gene was integrated into the ORF of the chloramphenicol resistance gene. (B) Construct 2. This construct includes only *Gsd^{fY}*. Numbers above the thick bar indicate the length of the upstream, gene coding and downstream regions of the *Gsd^{fY}* gene. A fragment encoding crystallin-GFP and an ampicillin resistance gene was integrated into the ORF of the chloramphenicol resistance gene.