

## Description of Additional Supplementary Material

### Supplementary movie 1

Lack of UbiGFP expression in the disc proper confirms that the largest extend of clonal tissue is derived from the hh allele bearing twin spots, while the Minute twin spot has been eliminated. GFP signals in the eye disc flooring stem from CNS-derived GFP-positive heterozygous glia that have undergone migration to get in contact with the nascent photoreceptor cells. Shown in red is the retinal determination gene eyes absent (*eya*) and in white elevated levels of Cubitus interruptus (*Ci155*).