

Figure S1. Targeted mutagenesis induced by microinjection of TALEN mRNAs into monarch butterfly embryos. (A) Targeting mutagenesis at the cry2 locus for all alive founders validated by PCR and EagI digestion. For each founder, the PCR product was either not subjected (-) or subjected to EagI (+). The blue arrow represents genomic amplicons carrying targeted mutations that are resistant to EagI digestion and the black arrows represent cleaved wild-type fragments. (B) Targeting mutagenesis at the clock locus for all alive founders validated by PCR and NgoMIV digestion. For each founder, the PCR product was either not subjected (-) or subjected to NgoMIV (+). The red arrow represents genomic amplicons carrying targeted mutations that are resistant to NgoMIV digestion and the black arrows represent cleaved wild-type fragments. Estimation of the frequency of NHEJ-mediated indels is provided under each founder.