

Fig. S1. Molecular analysis of the Utx^{Δ} allele generated by homologous recombination. (A) The genomic region containing the Utx gene in wild-type animals (Utx^+ allele); the targeting construct containing the indicated genomic region in which part of the Utx coding region was replaced by the white (w^+) marker gene (donor fragment); and the deletion allele in which part of the Utx coding region is replaced by w^+ (Utx^{Δ} allele). In Utx^{Δ} , the AGC codon for Ser503 was converted to a TAA termination codon. The positions of primers F1 (5'-CCAAGCCCAGCAACCGATTC-3'), R1 (5'-TCGCTGCATGAATTAGCTTGG-3'), F2 (5'-TGCCGTTTACTGTGCGAC-3') and R2 (5'-TATCGTTTCGCTCGGAAAGC-3') used for diagnostic PCR are shown. (B) PCR reactions were performed with the indicated primer pairs on genomic DNA isolated from Utx^{Δ} + heterozygotes or from transgenic animals carrying the donor construct (donor) and analysed by electrophoresis on agarose gels. The 5 kb F1-R1 and F2-R2 fragments are diagnostic for the Utx^{Δ} allele.