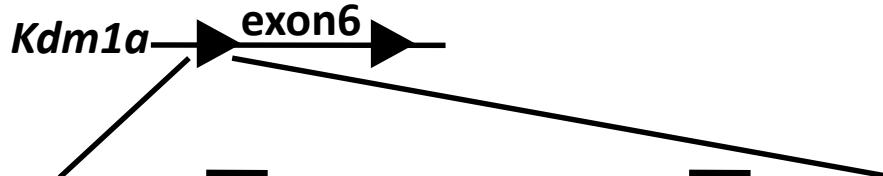


## A. F0 floxed



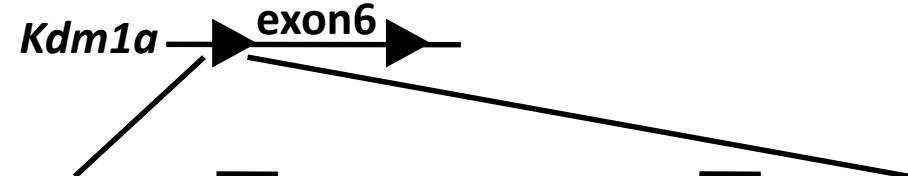
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAACCTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT

## B. F1 deleted



ATAACCTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAACCTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT  
ATAACCTTCGTATAGTATATATTATACGAAGTTAT  
ATAACCTTCGTATAGTATATATTATACGAAGTTAT  
ATAAATTTCGTATAGTATATATTATACGAAGTTAT

## C. F2 floxed



ATAA**C**TTCGTATAGTATATATTACGAAGTTAT  
ATAA**C**TTCGTATAGTATATATTACGAAGTTAT  
ATAATTTCGTATAGTATATATTACGAAGTTAT  
ATAA**C**TTCGTATAGTATATATTACGAAGTTAT  
ATAATTTCGTATAGTATATATTACGAAGTTAT  
ATAATTTCGTATAGTATATATTACGAAGTTAT  
ATAATTTCGTATAGTATATATTACGAAGTTAT  
ATAA**C**TTCGTATAGTATATATTACGAAGTTAT  
ATAA**C**TTCGTATAGTATATATTACGAAGTTAT  
ATAA**C**TTCGTATAGTATATATTACGAAGTTAT  
ATAATTTCGTATAGTATATATTACGAAGTTAT  
ATAATTTCGTATAGTATATATTACGAAGTTAT  
ATAATTTCGTATAGTATATATTACGAAGTTAT

**Supplemental Figure 4.** Non-CpG methylation of the *LoxP* recognition site. Bisulfite converted sequence from **(A)** the F0 *Kdm1a* floxed allele prior to recombination, **(B)** the F1 *Kdm1a* deleted allele after recombination, and **(C)** the F2 *Kdm1a* floxed allele that does not recombine. The methylated non-CpG cytosine just 5' of the CpG (denoted by the line above) in the *LoxP* site is shown in red. The sequences are depicted in the same order as the lollipop representations in Figure 5.