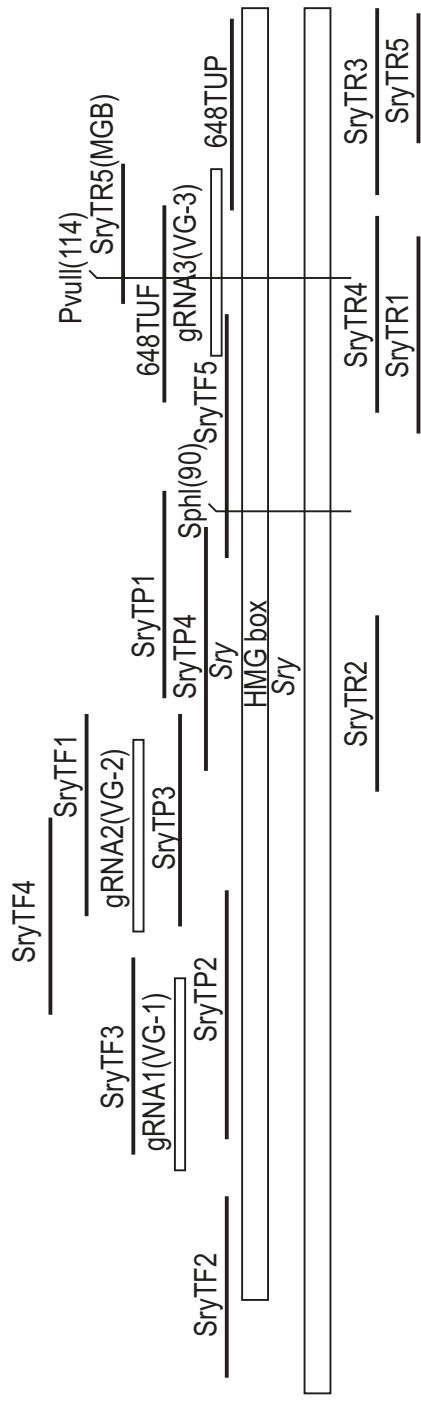




gRNA	Target Sequence (PAM)	Distance from A of ATG (bp)	LTVEC targeted clones	Cas9 cleaved clones	Size of NHEJ-induced deletion (bp)
VG-1	5'-CCATGAATGCATTTATGGTGG(TGG)-3'	23	0	0	n.a.
VG-2	5'-CCGTGGTGAGAGGCACAAGT(TGG)-3'	48	0	1	9
VG-3	5'-GCAAGCAGCTGGGATGCAGG(TGG)-3'	107	0	1	5

FIG. 1

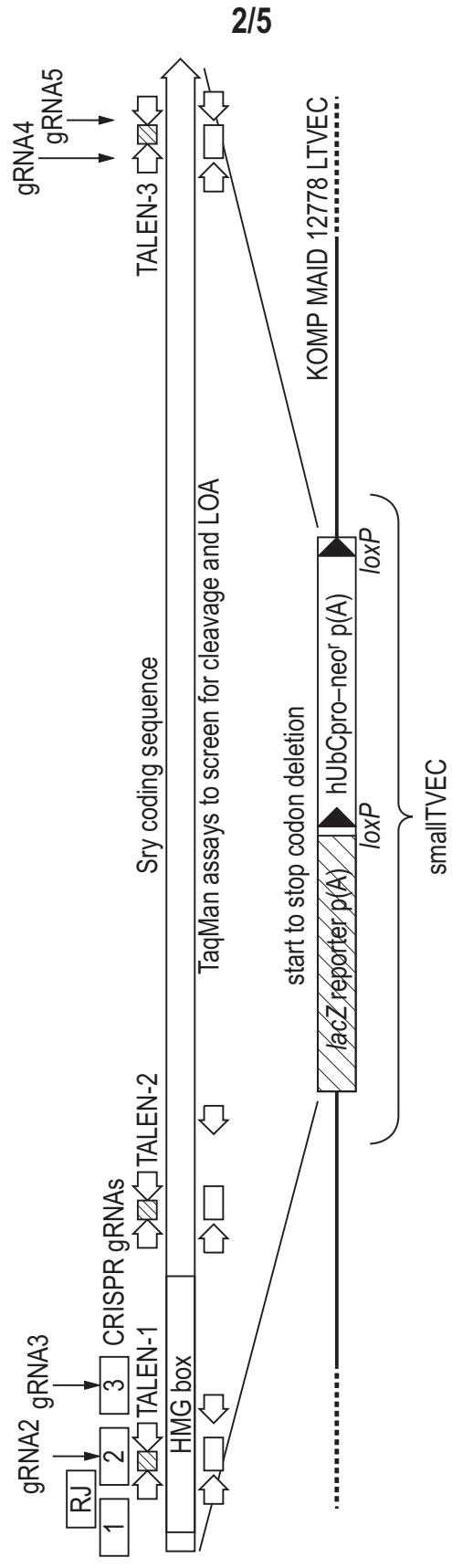
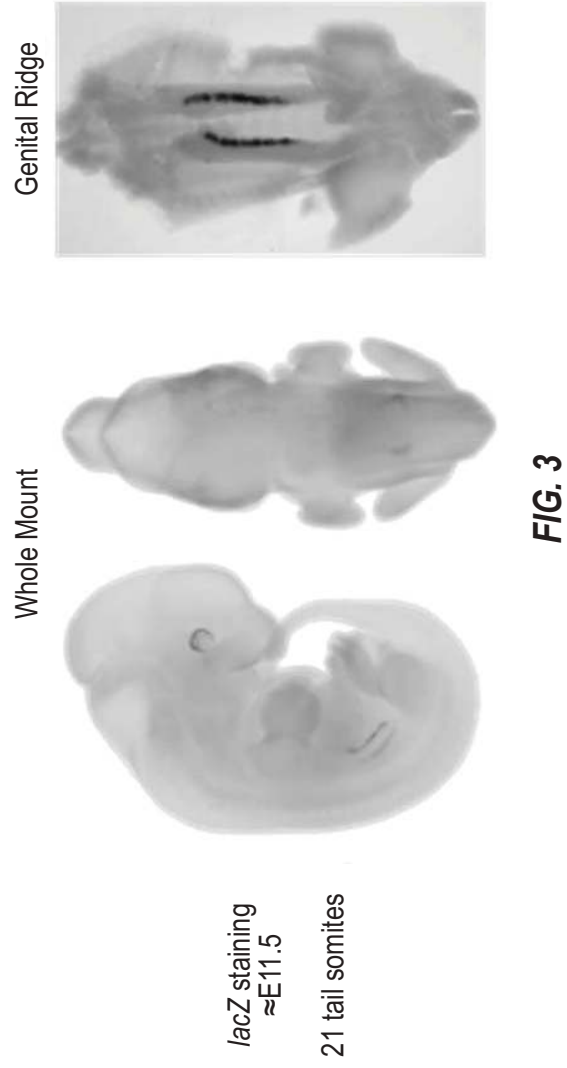


FIG. 2



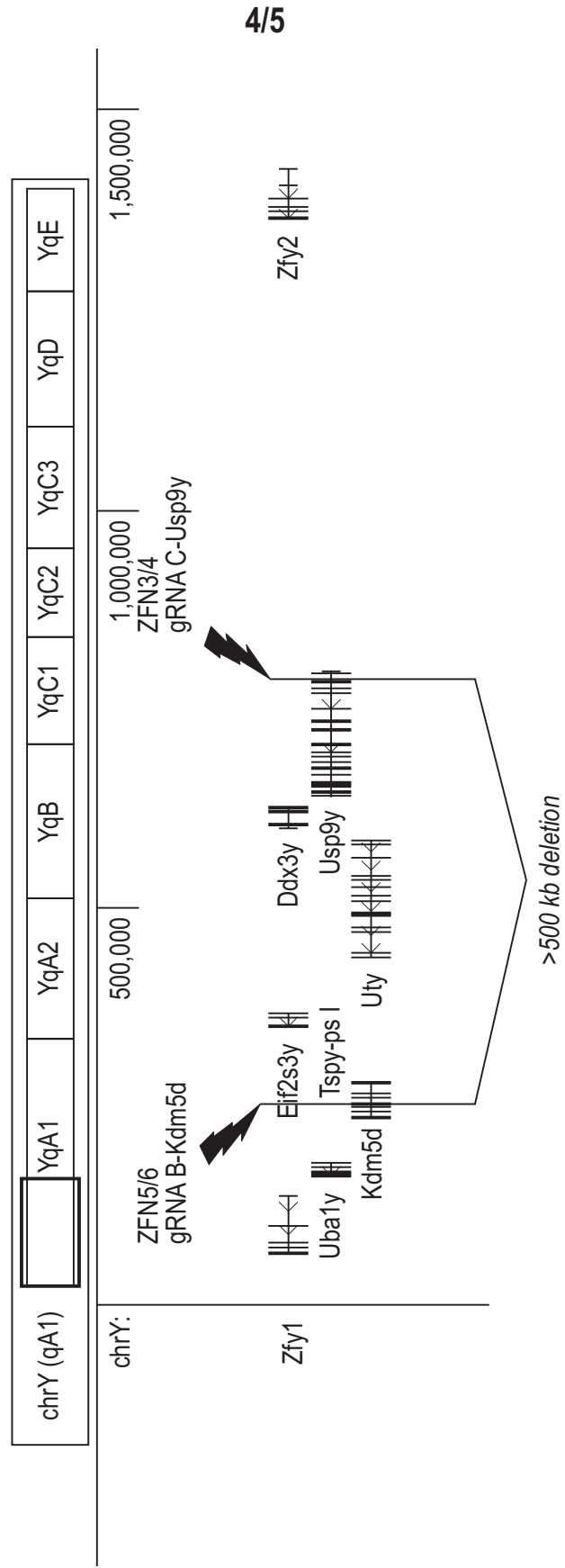


FIG. 4

□Kdm5 UP and Uspy9 DOWN	AAATTACCAATC:TTTTCCTATTG:CCA:CCGCTTGAGGAGT:TGTTGGAGAAGTCTCATTTGAA:GAATCAGATGA
□1-D5 1500F	AAATTACCAATC:TTTTCCTATTGTCCTCAA:.....:ATACTGGAGAAGTCTCATTTGCAACGAATCAGATGA
□1-D5 1000R	AAATTACCAATC:TTTTCCTATTGCACAA:.....:ATGTTGGAGAAGTCTCATGCGAA:GAATCAAAATTG

FIG. 5A

□Kdm5 UP and Uspy DOWN		5/5
□1500F	CTATCAGATAGGATATTTTACAGTT:TTTCATATTGTATGGAGAGATTGTTGGAGAAGTCTCATTTGGAAGAATCAGATGATGAGATCTTAAAT	CTATCAGATAGGATATTTTACAGTTGTT:::GGAGAAGTCTCATTTGGAAGAATCAGATGATGAGATCTTAAAT
□1000R	CTATCAGATAGGATATTTTACAGTTGTT:::GGAGAAGTCTCATTTGGAAGAATCAGATGATGAGATCTTAAAT	CTATCAGATAGGATATTTTACAGTTGTT:::GGAGAAGTCTCATTTGGAAGAATCAGATGATGAGATCTTAAAT
□1000F	CTATCAGATAGGATATTTTACAGTTGTT:::GGAGAAGTCTCATTTGGAAGAATCAGATGATGAGATCTTAAAT	CTATCAGATAGGATATTTTACAGTTGTT:::GGAGAAGTCTCATTTGGAAGAATCAGATGATGAGATCTTAAAT

FIG. 5B

[illegible]

FIG. 5C