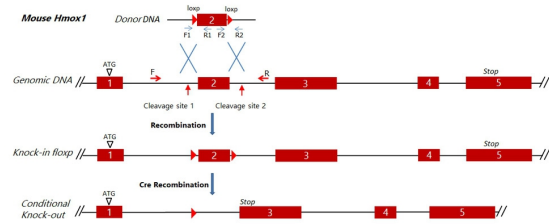
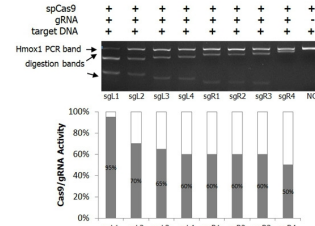


a

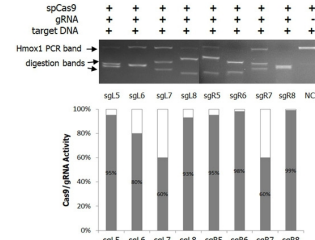
**b**

sgRNA	sites	Target sequences(5'-3')
sgL1	5'	CTGTTCGATGTTTAAGCAGG
sgL2	5'	GACTGCATCTGTTTCATGG
sgL3	5'	GATTTCGCTGTGGTGGG
sgL4	5'	GAATAGGAGTTCTGCCTGTTG
sgR1	3'	AAGTGACCTTCCTGGACAGG
sgR2	3'	GTAATAGAGGTCGTAATGG
sgR3	3'	CACAGTAAATGATCTTAACTG
sgR4	3'	TTAACCATCTGCTGCATCTGG

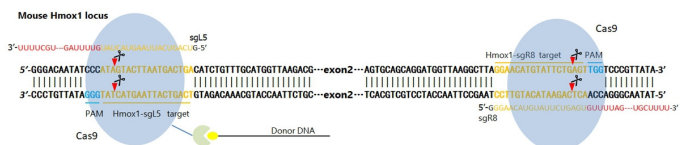


C

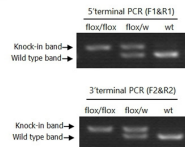
sgRNA	sites	Target sequences(5'-3')
sgL5	5'	TCAGTCATTAAAGTACTATGGG
sgL6	5'	TATTTGCCCCAAAACCAAGG
sgL7	5'	TAAAGGGGGAGGCAACCATGG
sgL8	5'	CCAACCACTATGCTCAAAAGG
sgR5	3'	CTTATTACATTGATACTGTGG
sgR6	3'	GAGAAGATGTGATGGCGGTGG
sgR7	3'	AGTGCACCGAGGTATGGTAAAG
sgR8	3'	GGAACATGATTCTCGAATGG



d



e

**f**

Mice	genotypic sequence(5'-3')	genotype
Wild type	GAGTCTAACTGCGATAG...CTCCCTCAGGGGGTCTCTACTGACGAGGCCAGGCTCTCAACTGTGCTCAGCTCAGTACAGGATGCTGCTAGGGGAGCAGCGGGAACAGGCACGACGACGACGCTCTCTCCGACATCAGAC...TATCTCAGCACTGGGACAAAT	
KO	GAGTCTAACTGCGATAG...CTCCCTCAGGGGGTCTCTACTGACGAGGCCAGGCTCTCAACTGTGCTCAGCTCAGTACAGGATGCTGCTAGGGGAGCAGCGGGAACAGGCACGACGACGACGCTCTCTCCGACATCAGAC...TATCTCAGCACTGGGACAAAT	homotype

Sequencing results using primer F & R

