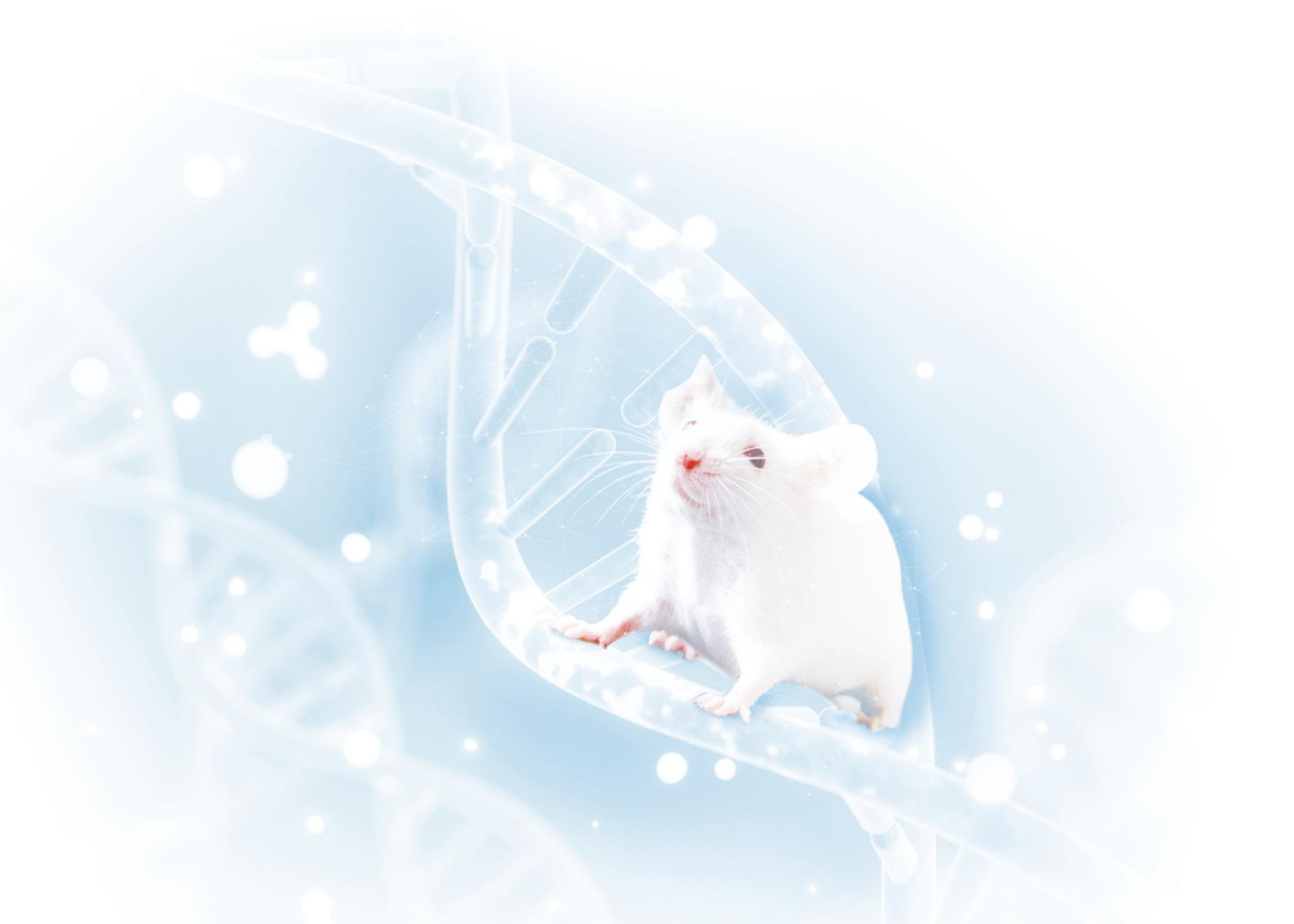
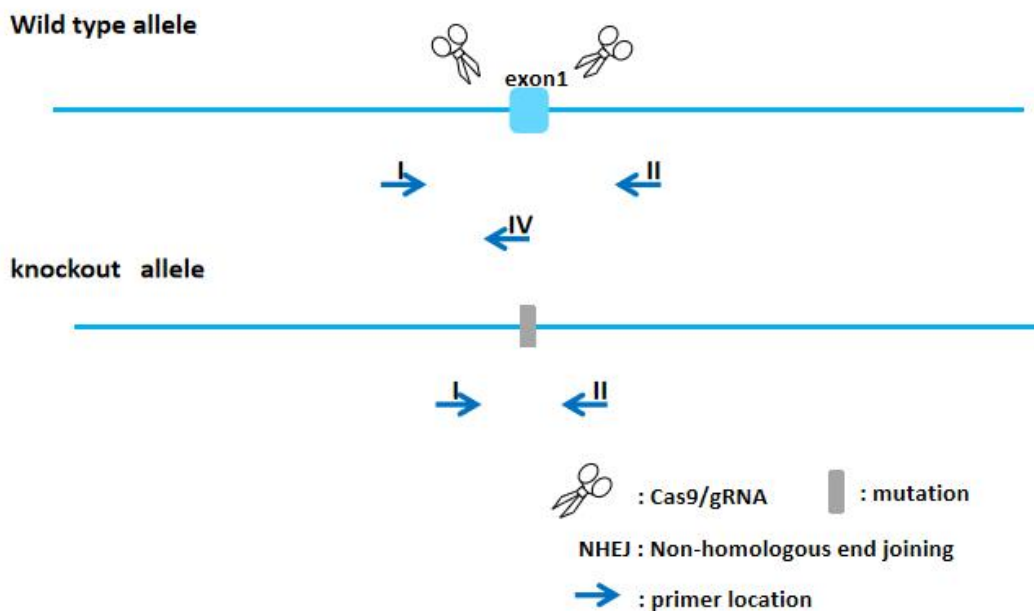


Terc-KO Genotyping Protocol



Common Name	Terc-K0	Cat. NO.	NM-K0-200717
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy



Primers

Primer	Sequence (5' → 3')	Primer type
P1	GGAGTGGACTGGGTGAAGG	Forward
P2	TACCAGGTTCTGTGTGACGC	Reverse
P4	GTCAGCGAGAAAAACAGCGG	Reverse

Expected results

Results	P1P2P4 He WT M GeneRuler™ 1 kb DNA Ladder 666 bp 409 bp 1% TopView™ LE G0 Agarose (#R0491) 0.5 µg/lane, 8 cm length gel, 1X TAE, 7 V/cm, 45 min
Genotype	Knockout type: -599+2bp Wild type: P1P4=409 bp Heterozygote: P1P2 =666 bp; P1P4=409 bp Homozygote: P1P2 =666 bp

Note: In both wild-type and heterozygous mice, whether the P1 and P2 primers can amplify larger bands does not affect the interpretation of the results, because the purpose of designing this pair of primers is to amplify K0 band

Reaction &Cycling

PCR Reaction System	Reaction Component			Volume (µl)
	ddH2O			7.5
	2×Taq Plus Master Mix			10.0
	P1 (10 pmol/µl)			0.5
	P2 (10 pmol/µl)			0.5
	P4 (10 pmol/µl)			0.5
	Genomic DNA			1.0
	Total			20
Cycling Reaction	2×Taq Plus Master Mix from Vazyme (Code Number: P222-1)			
	Step	Temp	Time	Note
	1	95° C	5 min	
	2	95° C	20 sec	
	3	60° C	20 sec	
	4	72° C	20 sec	35 repeats to 2
	5	72° C	5 min	
	6	12° C	Hold	

