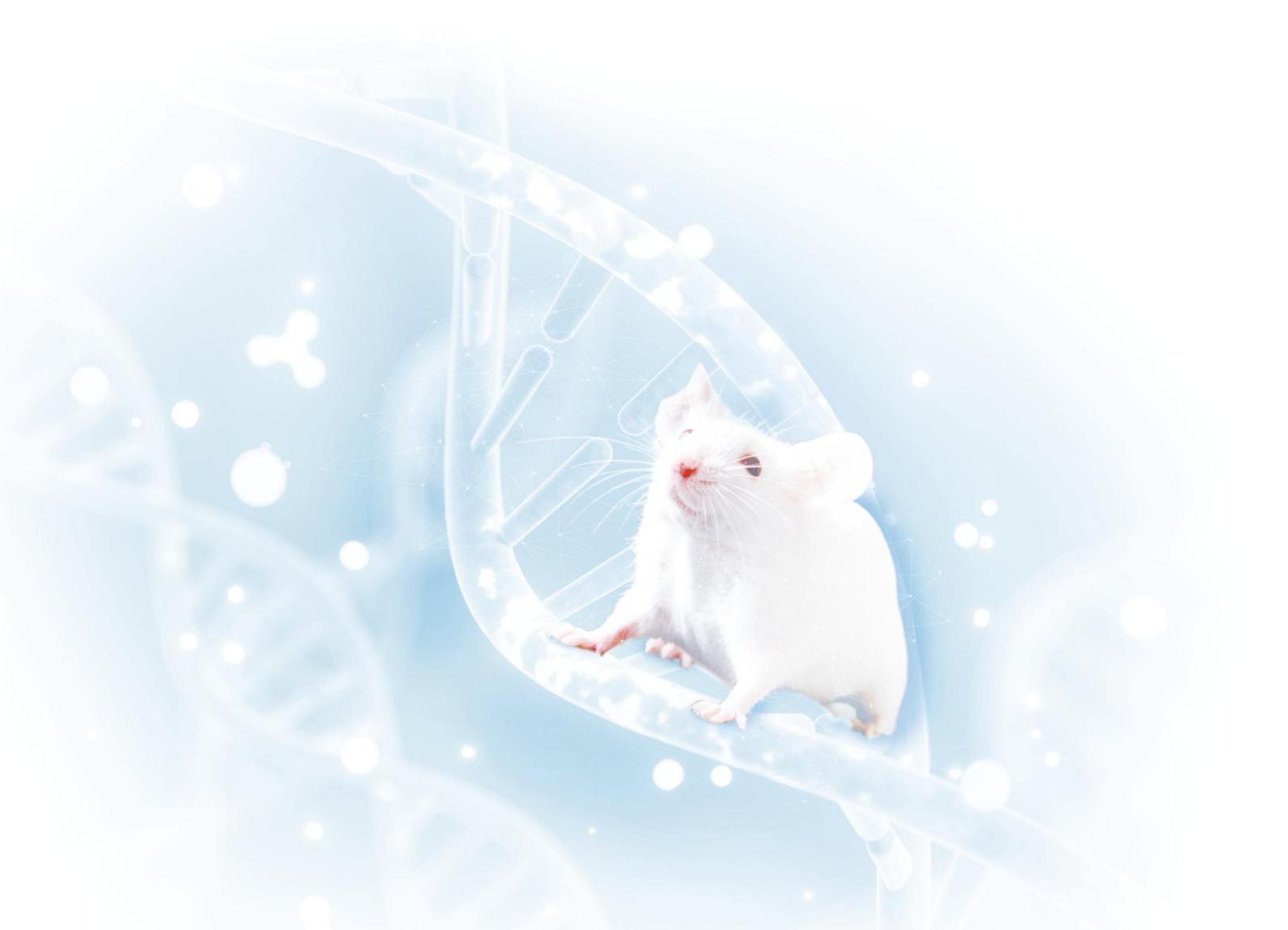
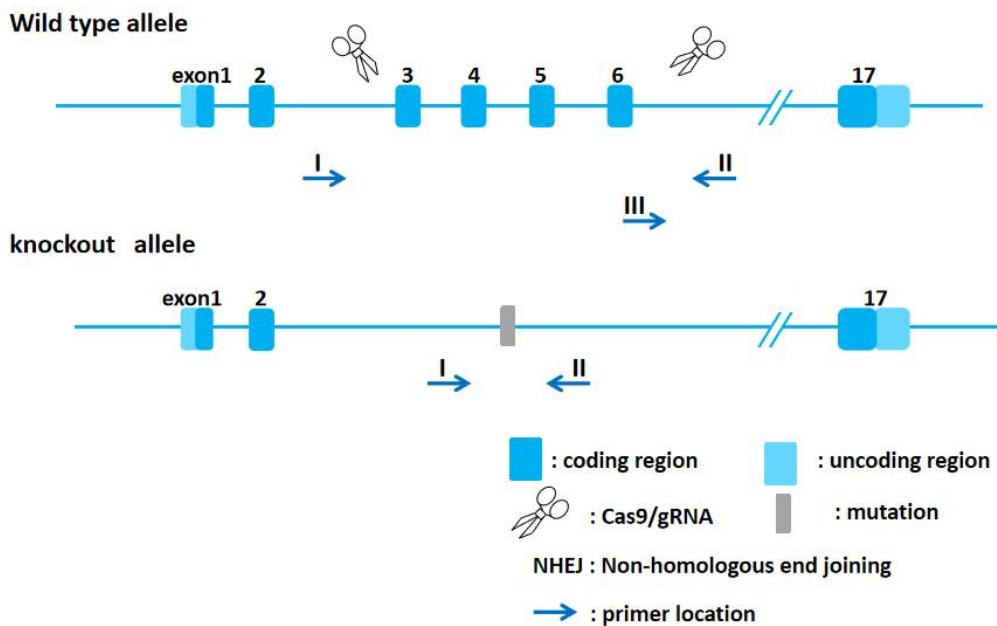


Rasgrp1-KO Genotyping Protocol



Common Name	Rasgrp1-KO	Cat. NO.	NM-KO-232693
Strain of Origin	C57BL/6J	Version	V1

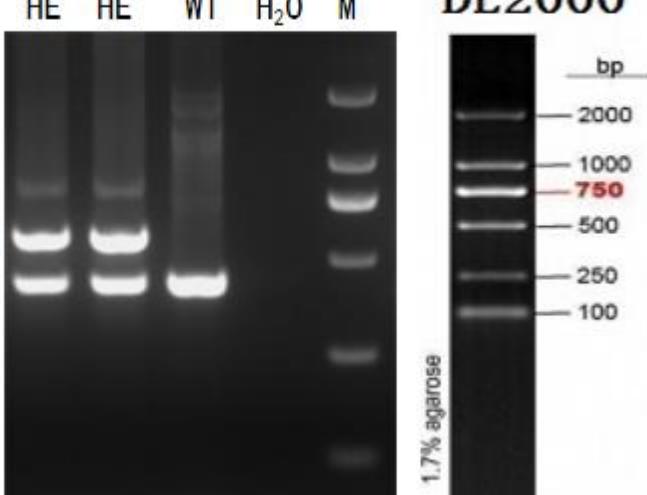
Genotyping strategy



Primers

Primer	Sequence (5' → 3')	Primer type
P1	TGCAAATCATCATGGCCCT	Forward
P2	TGAAGGGTATGTGTGCCCTC	Reverse
P3	CGCAAAGTGTCCCTGCTGTT	Forward

Expected results

		P1P2P3					
Results							
Genotype		Knockout type: -7733 bp Wild type: P2P3 = 414 bp Heterozygote: P1P2 = 580 bp; P2P3=414 bp Homozygote: P1P2 = 580 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 KO band

Reaction &Cycling

PCR Reaction System	Reaction Component		Volume (μ l)	
	ddH2O		7.5	
	2×Taq Plus Master Mix		10.0	
	P1(10 pmol/ μ l)		0.5	
	P2(10 pmol/ μ l)		0.5	
	P3(10 pmol/ μ l)		0.5	
	Genomic DNA		1.0	
	Total		20	
	2×Taq Plus Master Mix from Vazyme (Code Number: P222-1)			
Cycling Reaction	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	