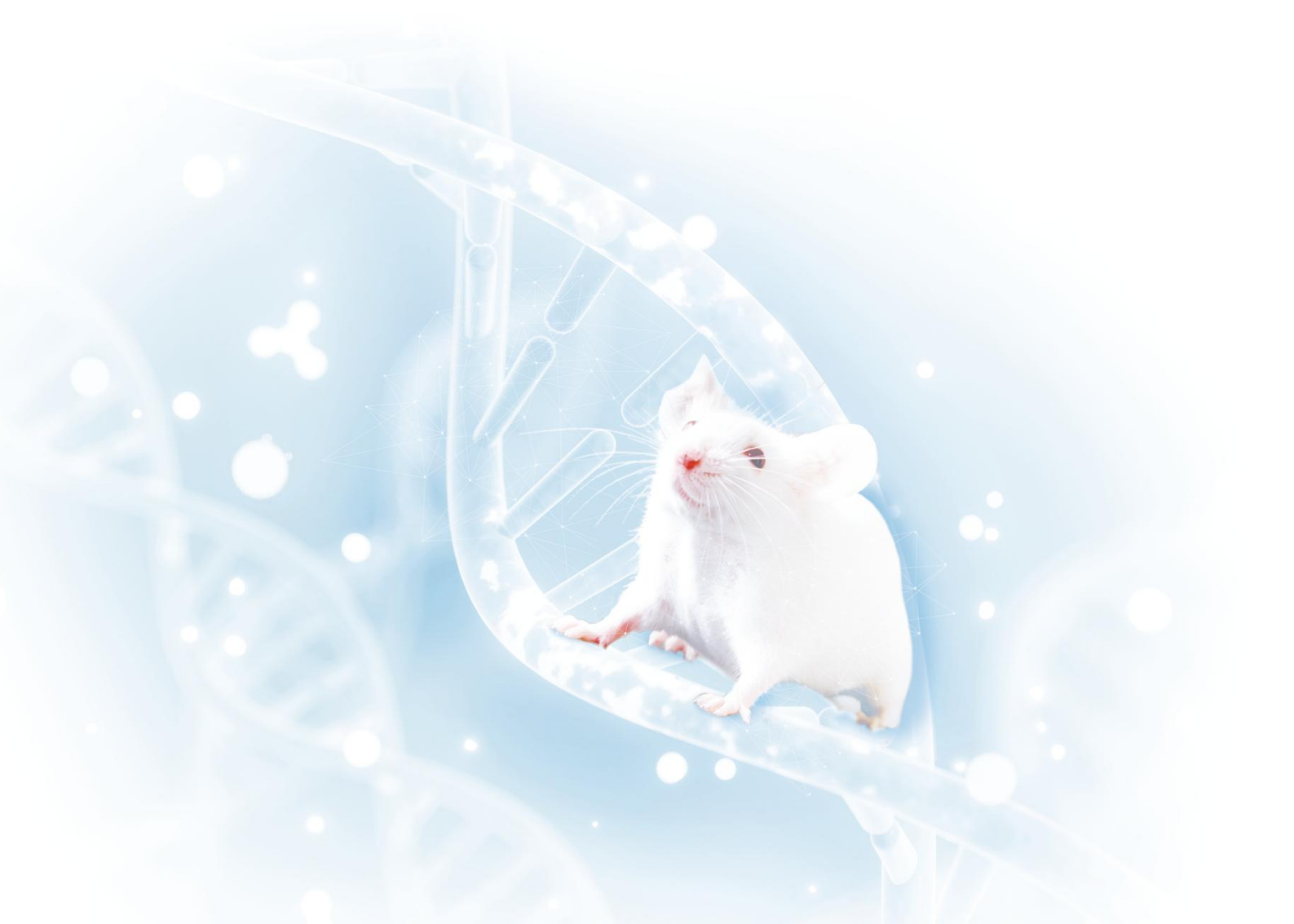
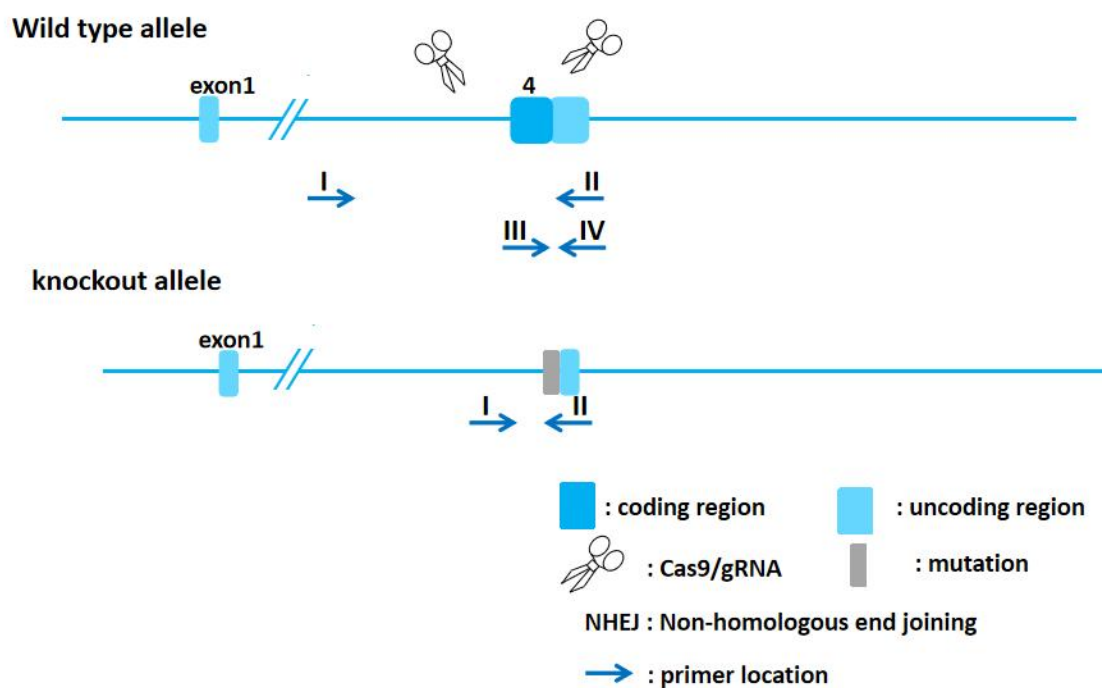


Adnp2-KO Genotyping Protocol



Common Name	Adnp2-KO	Cat. NO.	NM-KO-242101
Strain of Origin	C57BL/6J	Version	V1

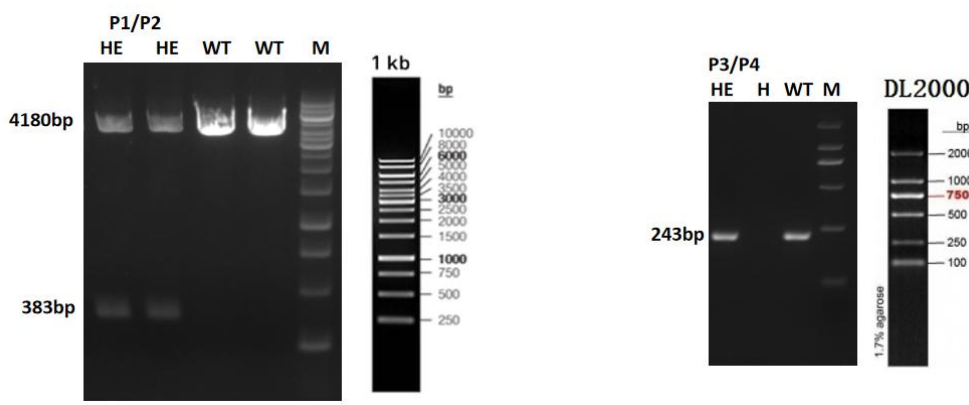
Genotyping strategy



Primers

Primer	Sequence (5'→3')	Primer type
P1	ACTTGTCTCACGGAATGGGG	Forward
P2	CATCCAGAGCACTGGCTTCT	Reverse
P3	TTCTCTGCAGTTCGCTTTGC	Forward
P4	ACACGTACTGTCACTAGCCG	Reverse

Expected results

Results	
Genotype	Knockout type: -3797 bp Wild type: P1P2 =4180 bp; P3P4 =243 bp Heterozygote: P1P2 =4180 bp and 383 bp; P3P4 =243 bp Homozygote: P1P2 =383 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 (μl)
	ddH ₂ O			8.0
	2 × Rapid Taq Master Mix			10.0
	P1(10 pmol/μl) or P3(10 pmol/μl)			0.5
	P2(10 pmol/μl) or P4(10 pmol/μl)			0.5
	Genomic DNA			1.0
	Total			20
	2 × Rapid Taq Master Mix from Vazyme(Code Number: P222-01)			
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	