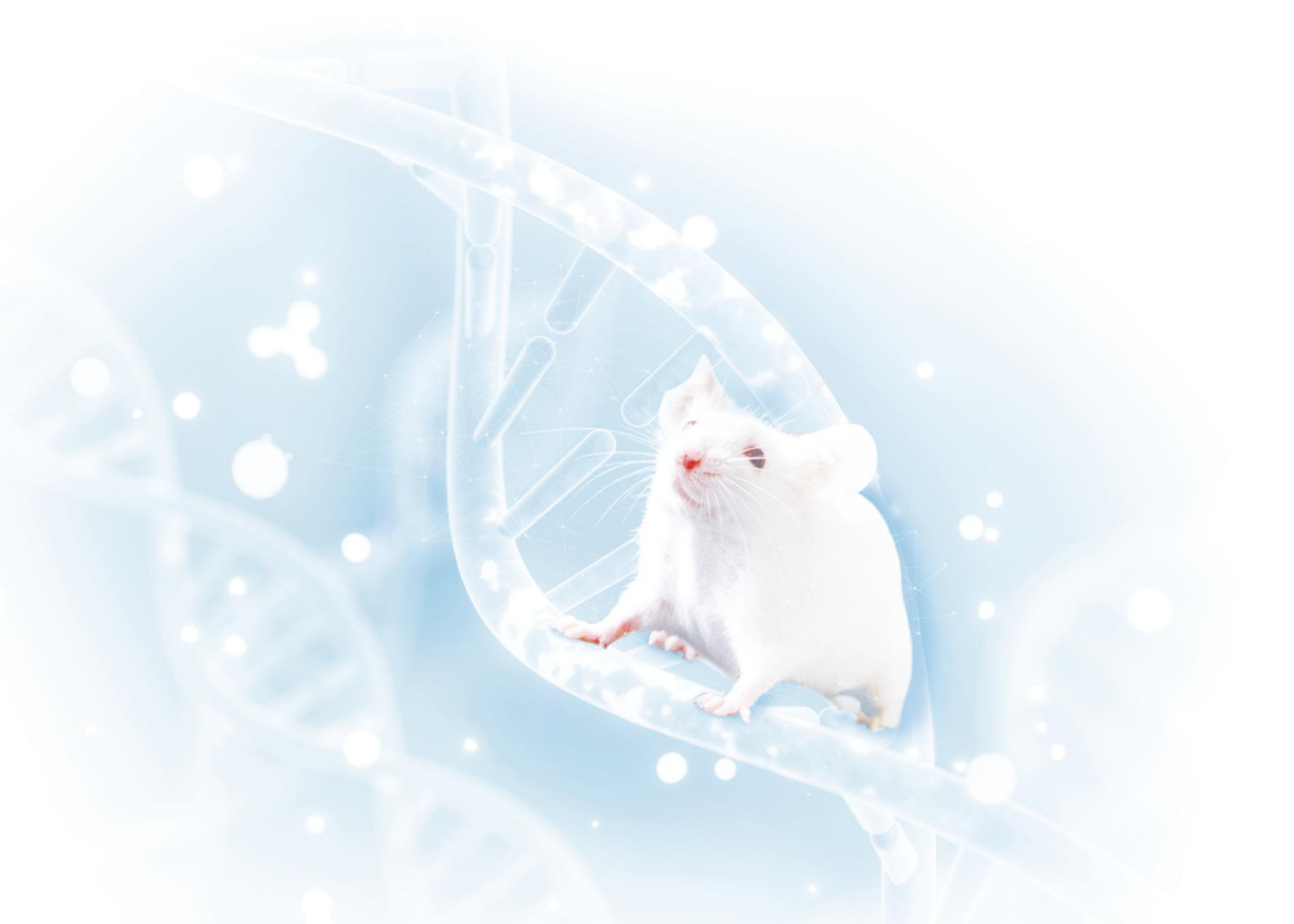
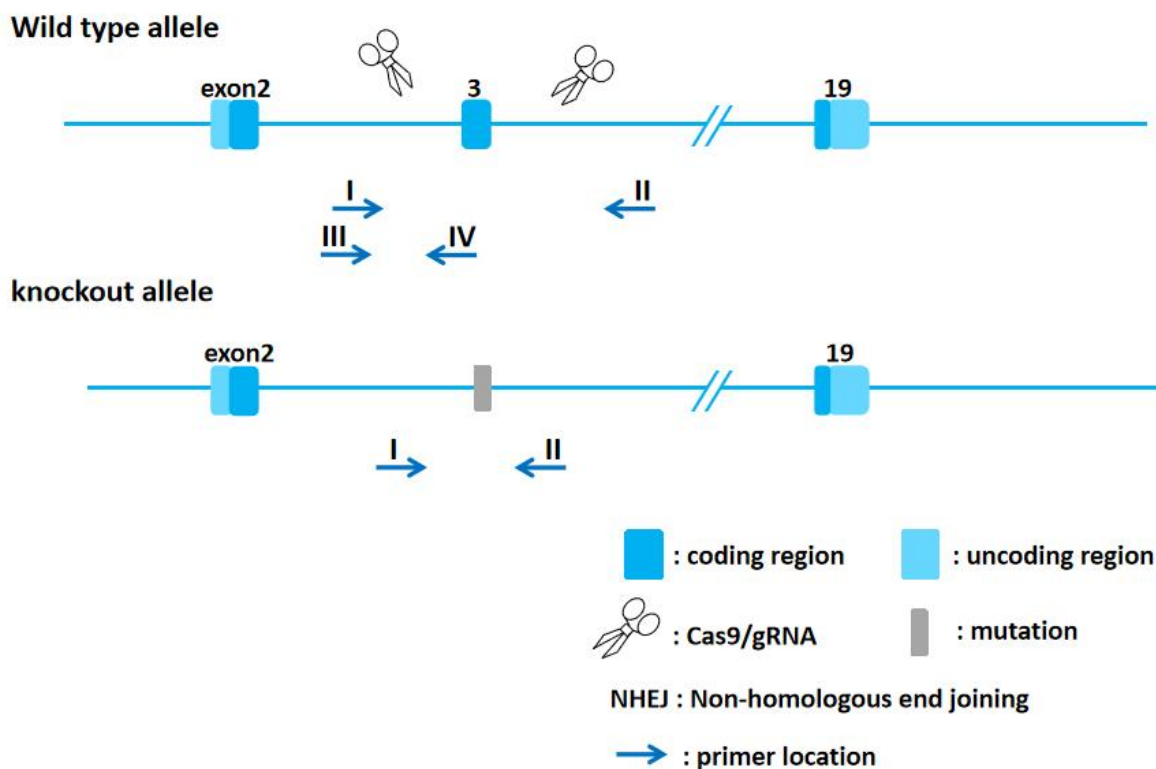


Cpt1c-KO Genotyping Protocol



Common Name	Cpt1c-KO	Cat. NO.	NM-KO-241713
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy



Primers

Primer	Sequence (5'→3')	Primer type
P1	GTTCCCTACCACCAAGCCAT	Forward
P2	GCTCCTCTTTTGGCTGTACC	Reverse
P3	GAGGGTTCCTACCACCAAG	Forward
P4	ACTGAAGAGGAAGAGCCAGC	Reverse

Expected results

Results	
Genotype	Knockout type: -221 bp Wild type: P1P2 =622 bp; P3P4 =279 bp Heterozygote: P1P2 =622 bp and 401 bp; P3P4 =279 bp Homozygote: P1P2 =401 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	