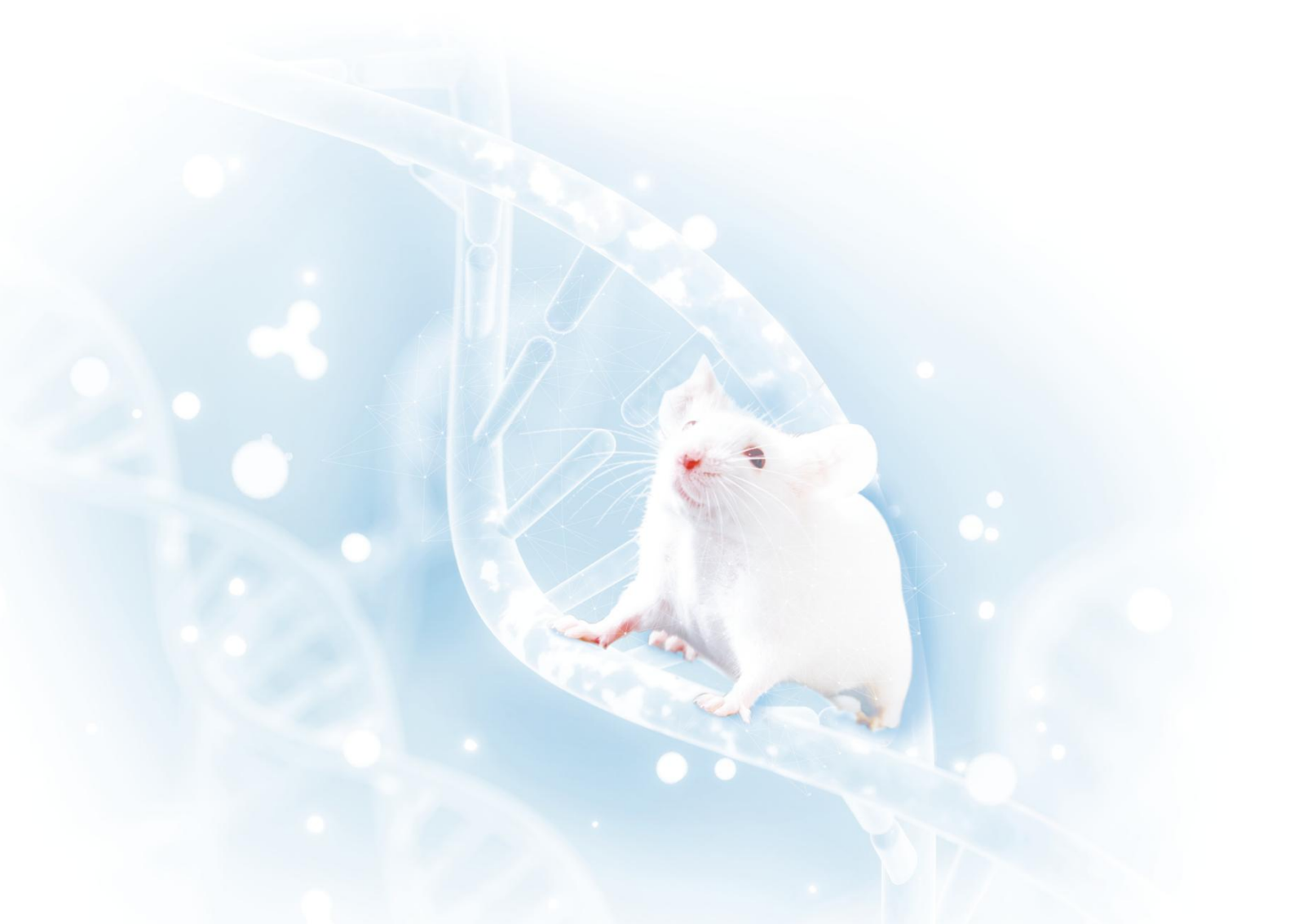


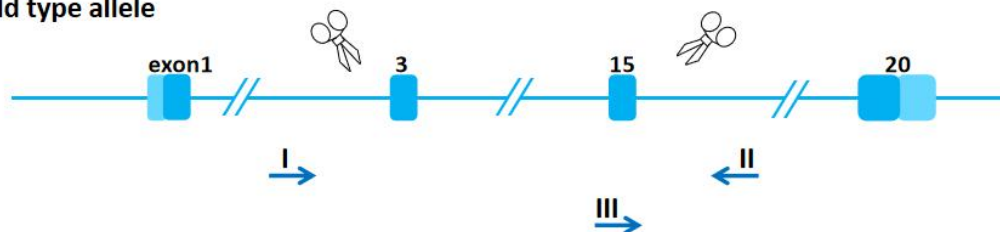
Tbc1d8-KO Genotyping Protocol



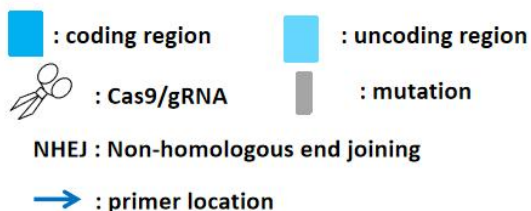
Common Name	Tbc1d8-K0	Cat. NO.	NM-K0-233299
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



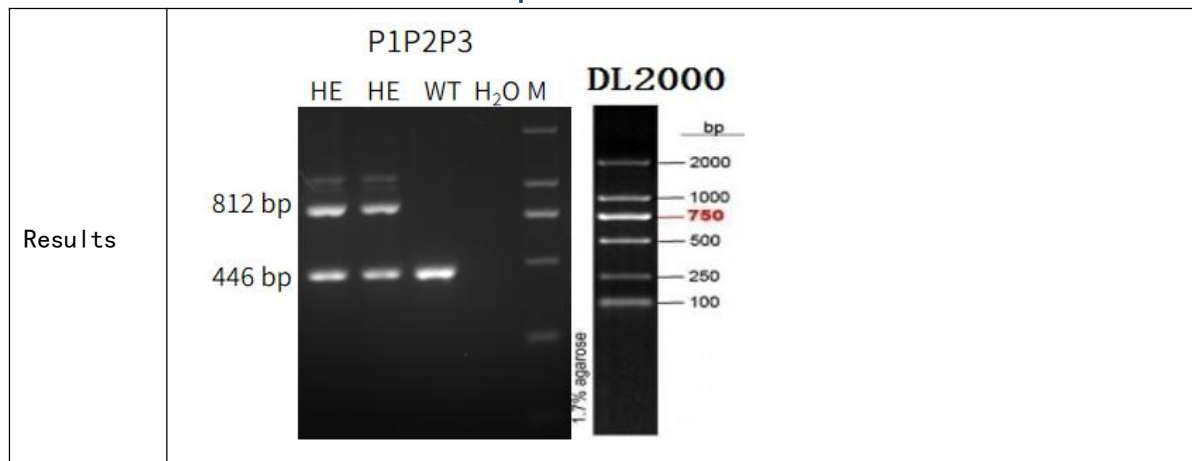
knockout allele



Primers

Primer	Sequence (5' → 3')	Primer type
P1	CTGGCACAAGAGGCTGGACA	Forward
P2	GCAGGAACAGGAATAAGCACGA	Reverse
P3	AAGCTCCGTGTCGTTATCCCA	Forward

Expected results



Genotype	Knockout type: -27781bp
	Wild type: P3P2=446 bp
	Heterozygote: P1P2 =812 bp; P3P2=446 bp
	Homozygote: P1P2 =812 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			7.5
	2×Taq Plus Master Mix			10.0
	P1 (10 pmol/μl)			0.5
	P2 (10 pmol/μl)			0.5
	P3 (10 pmol/μl)			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	