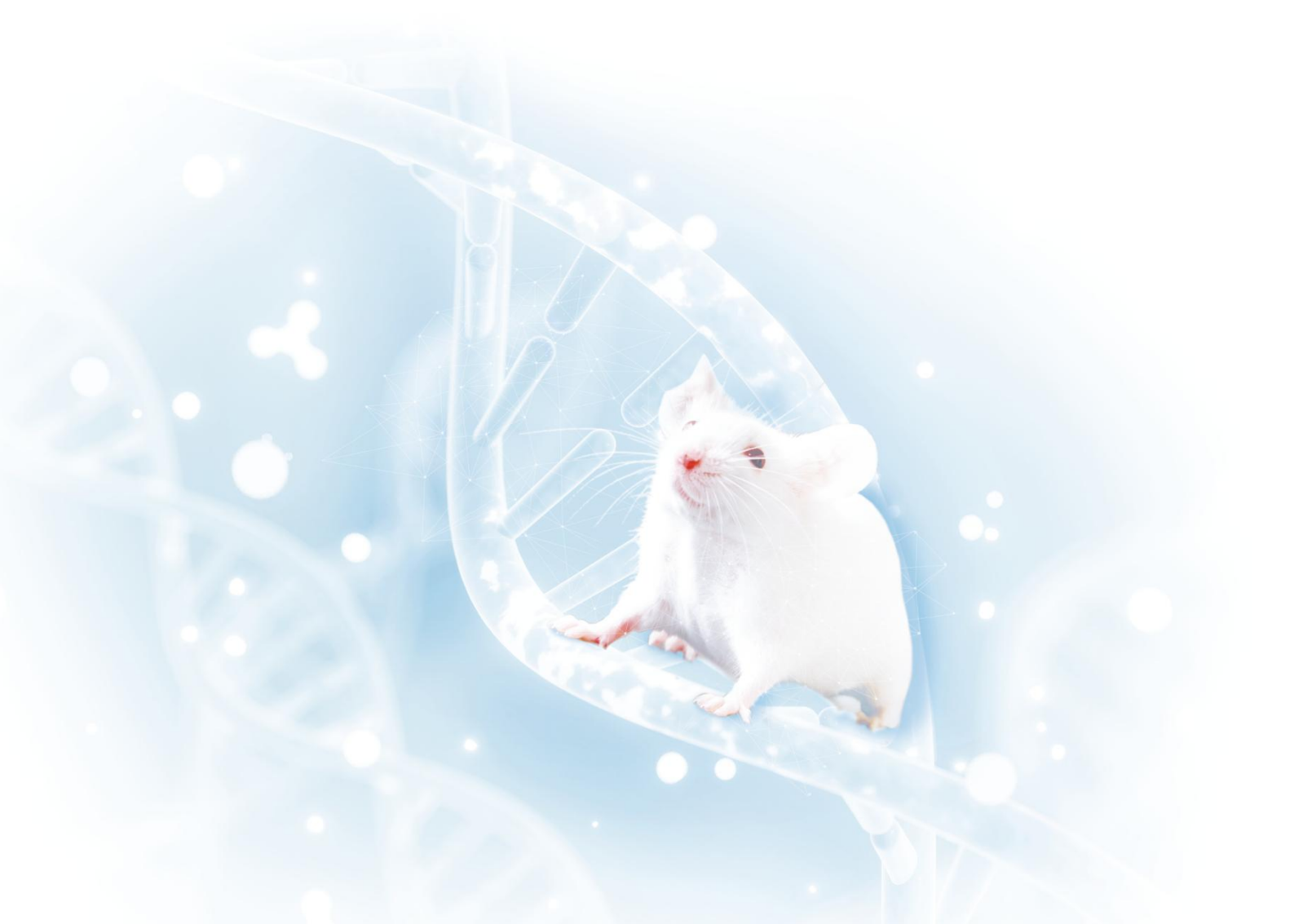


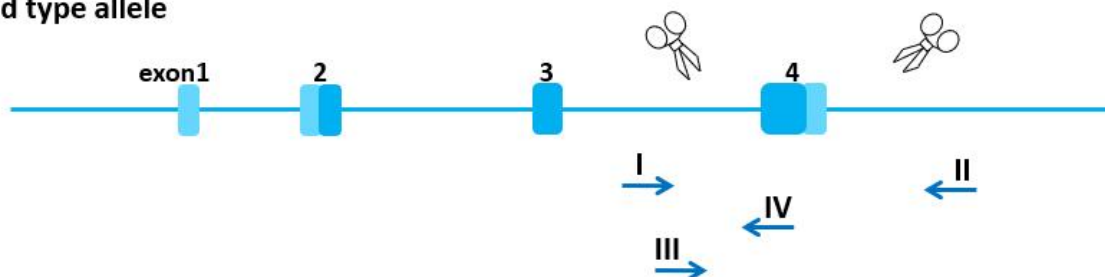
Tsacc-KO Genotyping Protocol



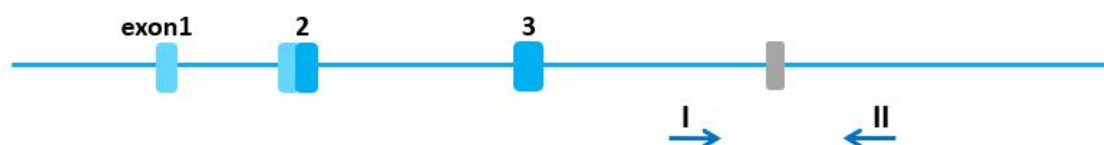
Common Name	Tsacc-KO	Cat. NO.	NM-KO-241477
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



knockout allele



: coding region : uncoding region

: Cas9/gRNA : mutation

NHEJ : Non-homologous end joining

: primer location

Primers

Primer	Sequence (5'→3')	Primer type
P1	ACACAGACATGAGCTGTACCTG	Forward
P2	CAGCTAAGGCACCTAGCCTC	Reverse
P3	GCTGAGTTGCAGTGA CTGGTT	Forward
P4	AGGGATGCCTGCAAGTTTTTC	Reverse

Expected results

Results	
Genotype	Knockout type: -345bp Wild type: P1P2 =958 bp; P3P4 =317 bp Heterozygote: P1P2 =958 bp and 613 bp; P3P4 =317 bp Homozygote: P1P2 =613 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)
	ddH2O			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	