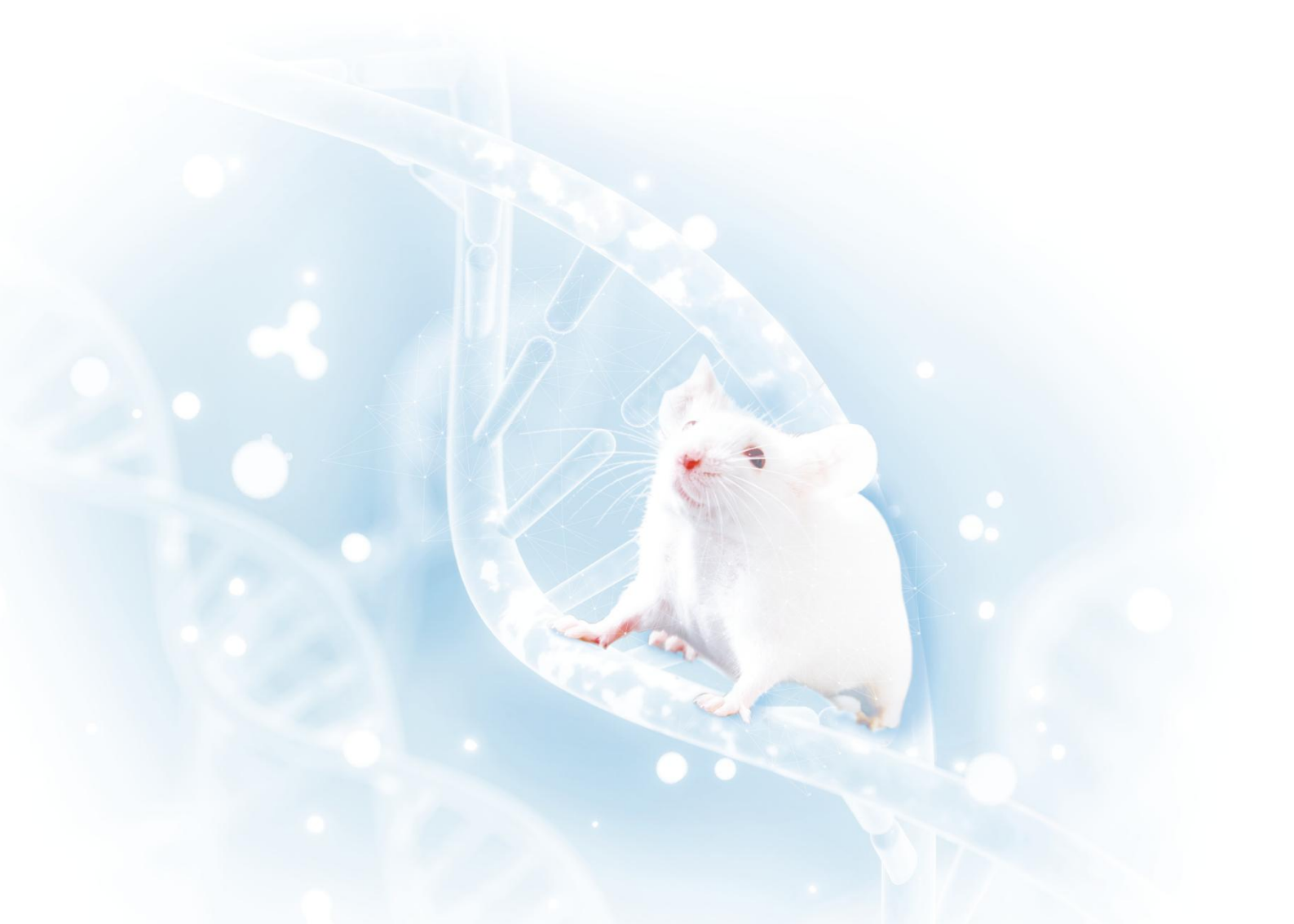


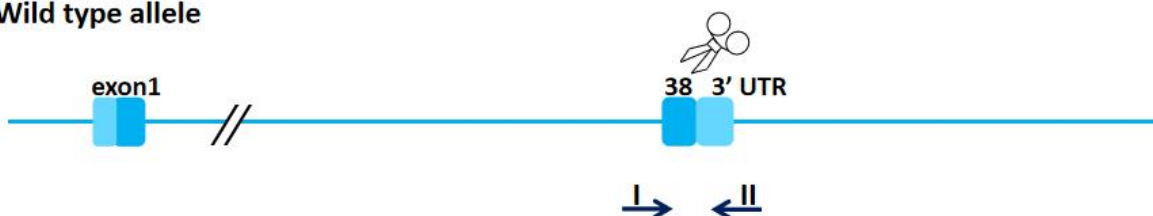
Iqgap3-2A-CreERT2 Genotyping Protocol



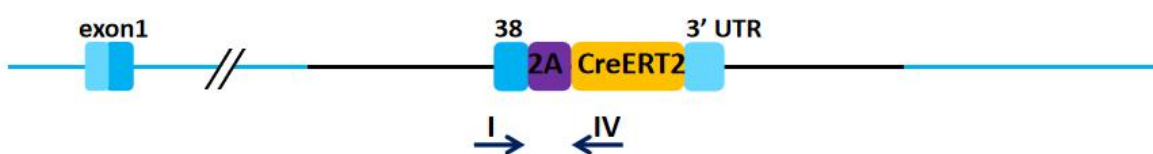
Common Name	Iqgap3-2A-CreERT2	Cat. NO.	NM-KI-231954
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



Targeted allele

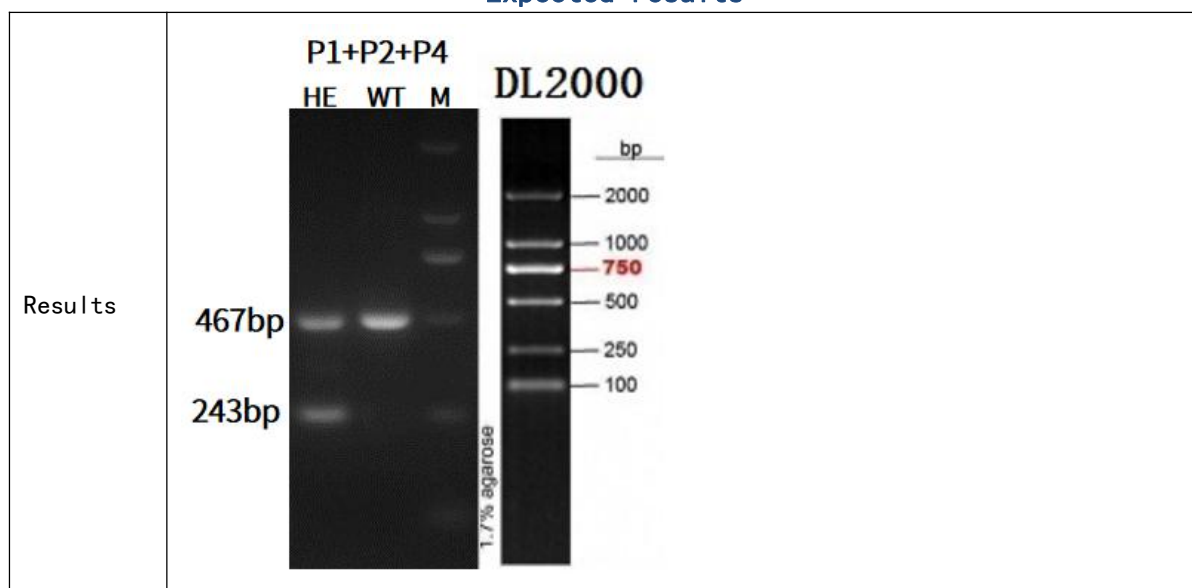


→ : primer location

Primers

Primer	Sequence (5' → 3')	Primer type
P1	AGCTGCAGTATGAGGGTGTG	Forward
P2	TATGAAGCGGAGTTGGGCAG	Reverse
P4	TGCGAACCTCATCACTCGTT	Reverse

Expected results



Genotype	Wild type: P1P2 =467 bp; Heterozygote: P1P2 =467 bp; P1P4=243 bp Homozygote: P1P4=243 bp
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Reaction &Cycling

PCR Reaction System	Reaction Component			Volume (μl)
	ddH2O			7.5
	2×Taq Plus Master Mix			10.0
	P1 (10 pmol/μl)			0.5
	P2 (10 pmol/μl)			0.5
	P4 (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	