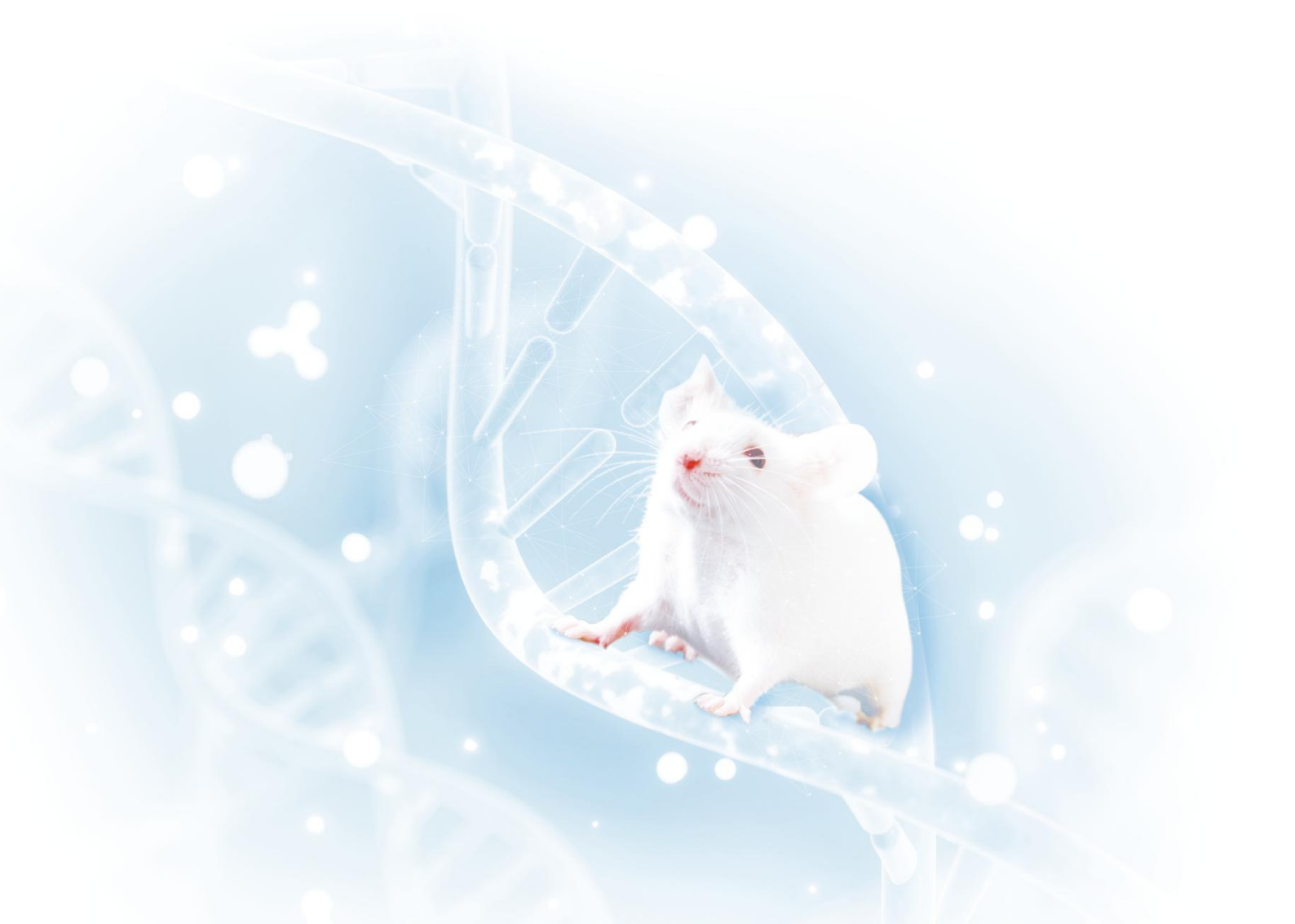
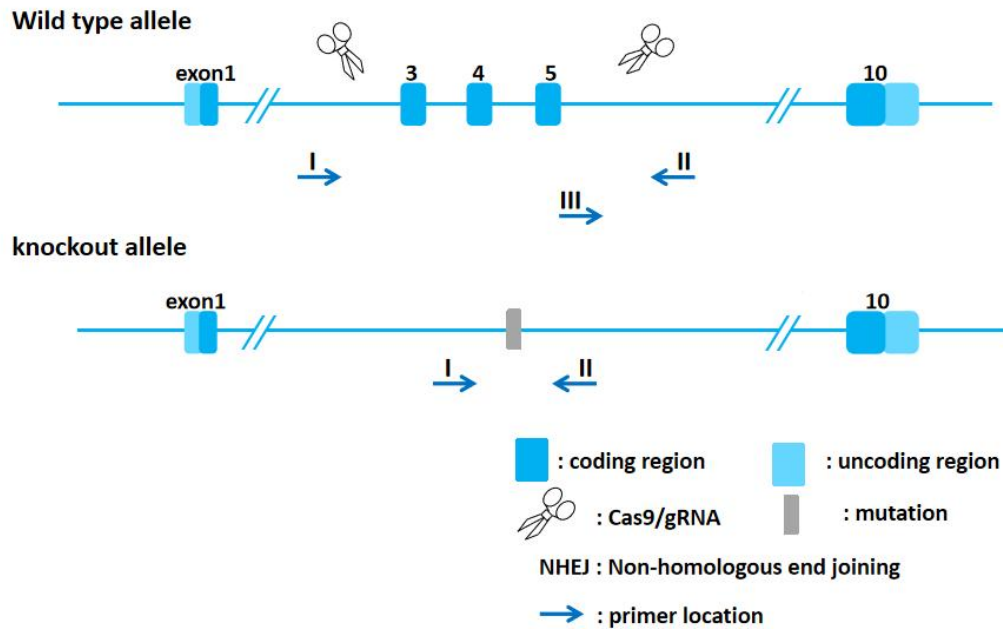


# Usp38-K0 Genotyping Protocol



<b>Common Name</b>	Usp38-K0	<b>Cat. NO.</b>	NM-K0-232240
<b>Strain of Origin</b>	C57BL/6J	<b>Version</b>	V1

### Genotyping strategy



### Primers

Primer	Sequence (5' → 3' )	Primer type
P1	GTTATGATCGGAGGTTTCCTTGTG	Forward
P2	TCTTGCTAGGCTCTGAATTTGC	Reverse
P3	GGAGGCAGTAAAGGTATGATGGC	Forward

### Expected results

Results	
Genotype	Knockout type: -10080 bp Wild type: P2P3 =524 bp Heterozygote: P1P2 =698 bp; P2P3=524 bp Homozygote: P1P2 =698 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 ( $\mu$ l)		
	ddH2O		7.5		
	2 $\times$ Taq Plus Master Mix		10.0		
	P1 (10 pmol/ $\mu$ l)		0.5		
	P2 (10 pmol/ $\mu$ l)		0.5		
	P3 (10 pmol/ $\mu$ l)		0.5		
	Genomic DNA		1.0		
	Total		20		
2 $\times$ 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			