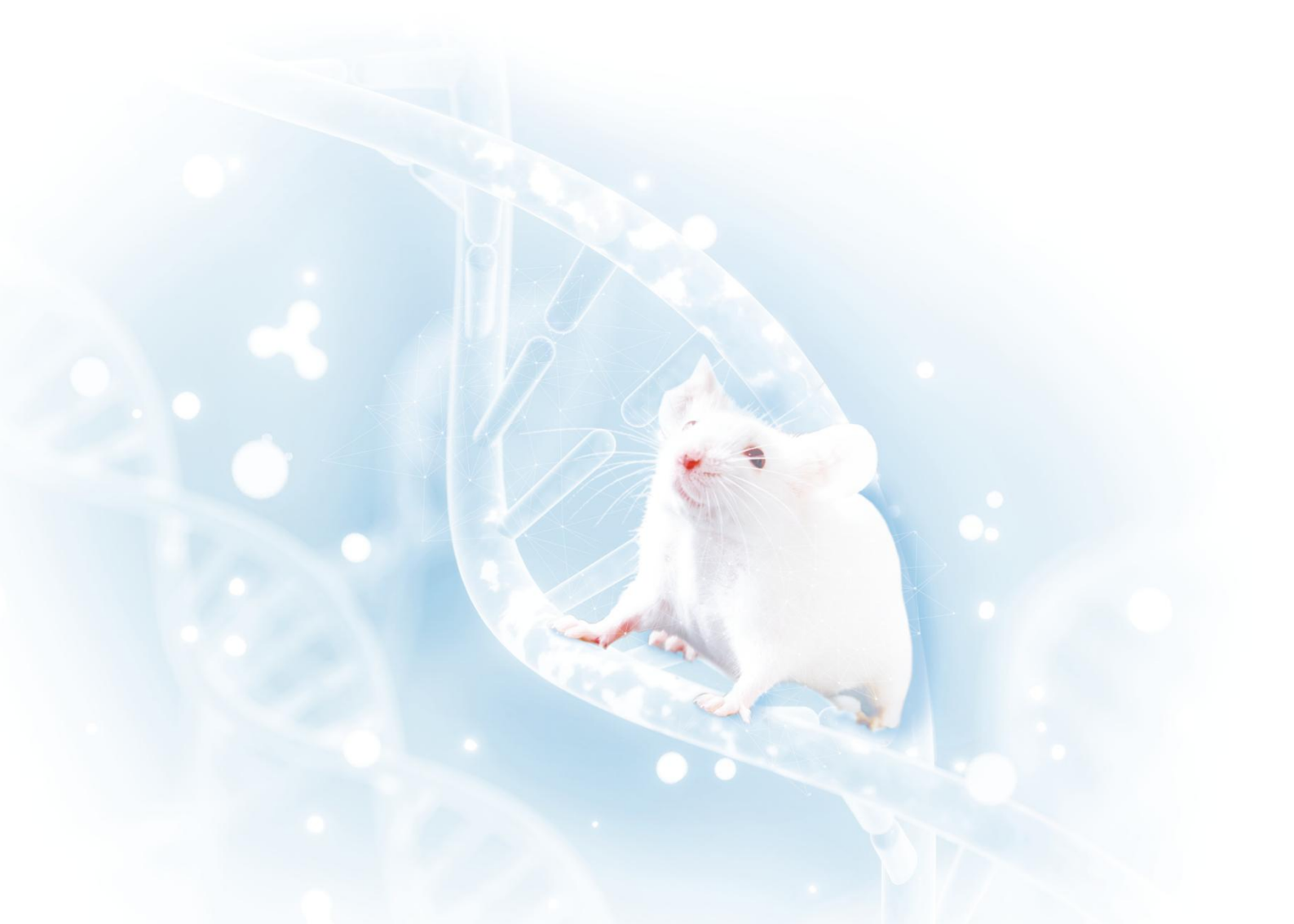


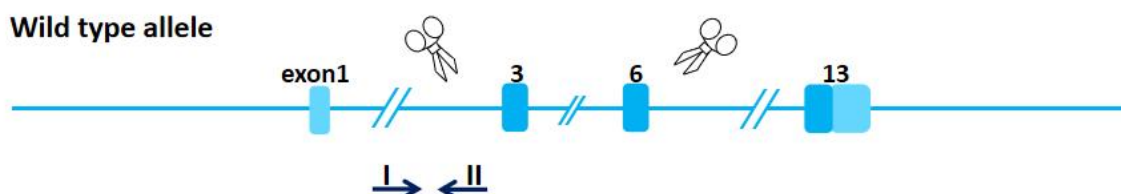
Usp21-Flox Genotyping Protocol



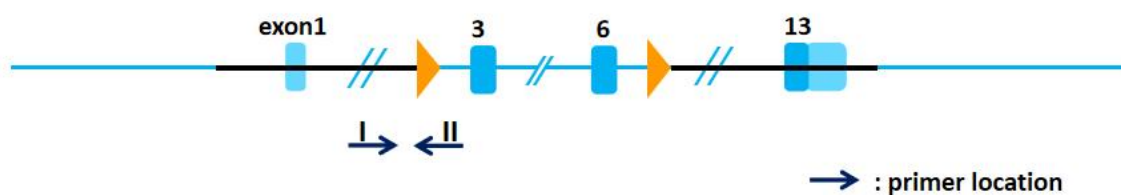
Common Name	Usp21-Flox	Cat. NO.	NM-CK0-240087
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



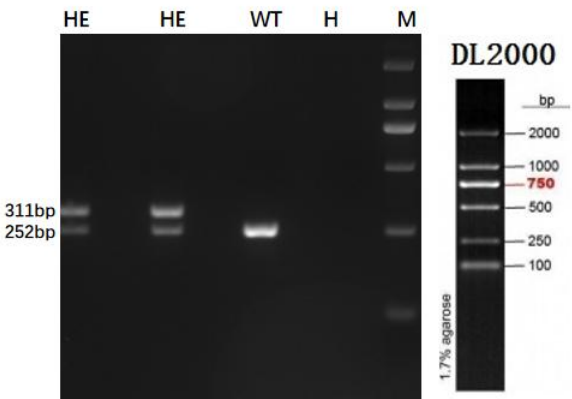
Targeted allele



Primers

Primer	Sequence (5' → 3')	Primer type
P1	TTCCCCATTTCCCGAGCTAAC	Forward
P2	CCATCACAGCTGAGTGTACCA	Reverse

Expected results

Results	
Genotype	Wild type: P1P2 =252 bp; Heterozygote: P1P2 =252 bp and 311 bp; Homozygote: P1P2 =311 bp

Reaction &Cycling

PCR Reaction System	Reaction Component			Volume (μl)
	ddH2O			8.0
	2×Rapid Taq Master Mix			10.0
	P1 (10 pmol/μl)			0.5
	P2 (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	