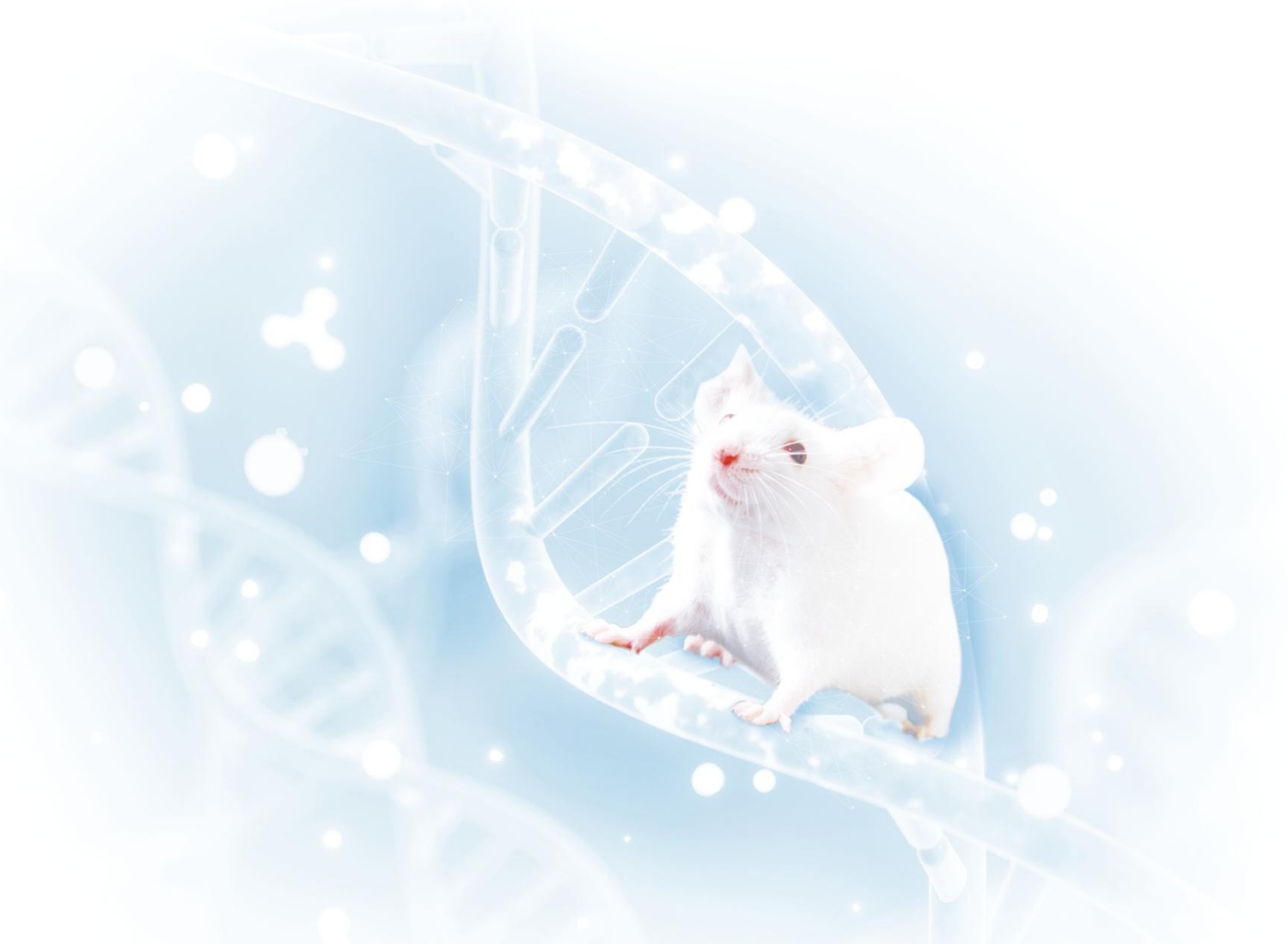
SHANGHAI MODEL ORGANISMS

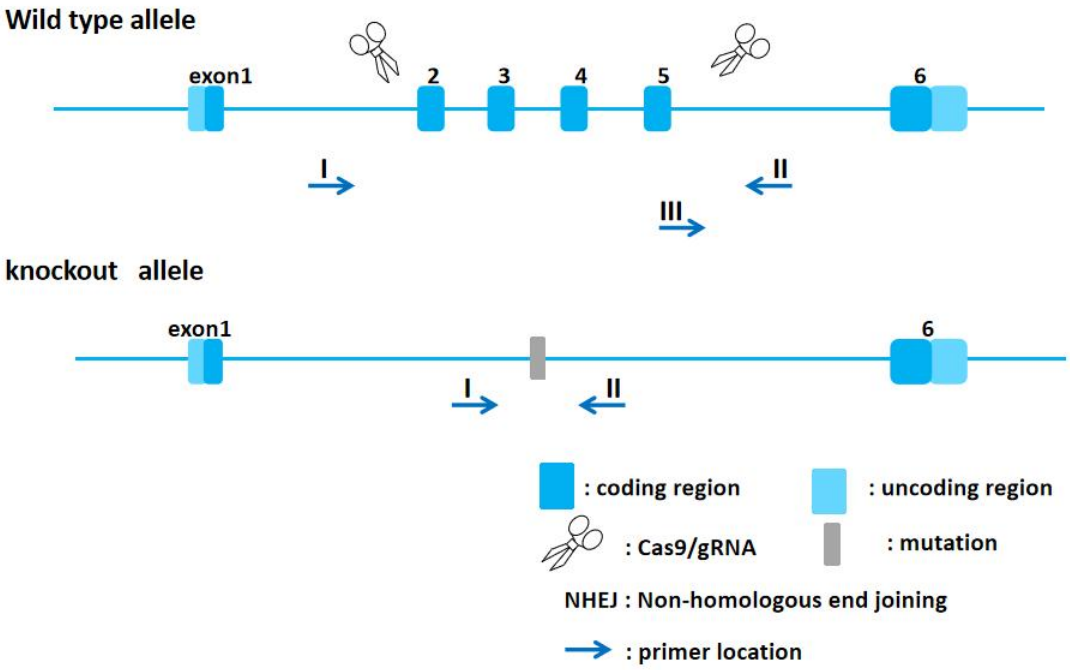
Editing Genes, Decoding the Mystery of Life

Tas1r3-KO(2) Genotyping Protocol



Common Name	Tas1r3-KO(2)	Cat. NO.	NM-KO-233158
Strain of Origin	C57BL/6J	Version	V1

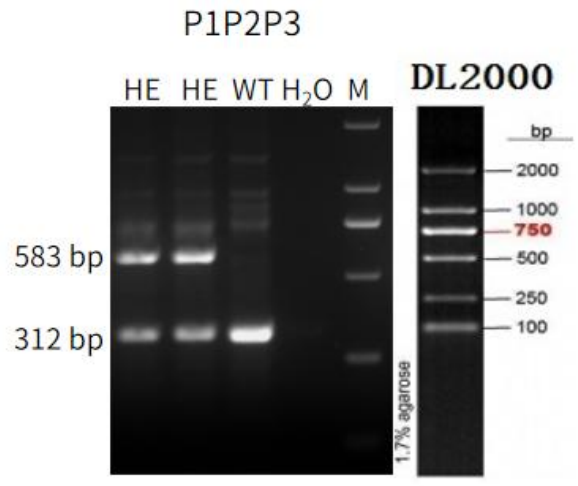
Genotyping strategy



Primers

Primer	Sequence (5' →3')	Primer type
P1	AAGCACAGCAGTGGTTTTGC	Forward
P2	TGCTTTTCTCTGGGGACCAC	Reverse
P3	CCAGGTTCGCCGAGTAAAGG	Forward

Expected results

Results	

Genotype	Knockout type: -1774bp Wild type: P3P2=312 bp Heterozygote: P1P2 =583 bp; P3P2=312 bp Homozygote: P1P2 =583 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)
	ddH20			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	