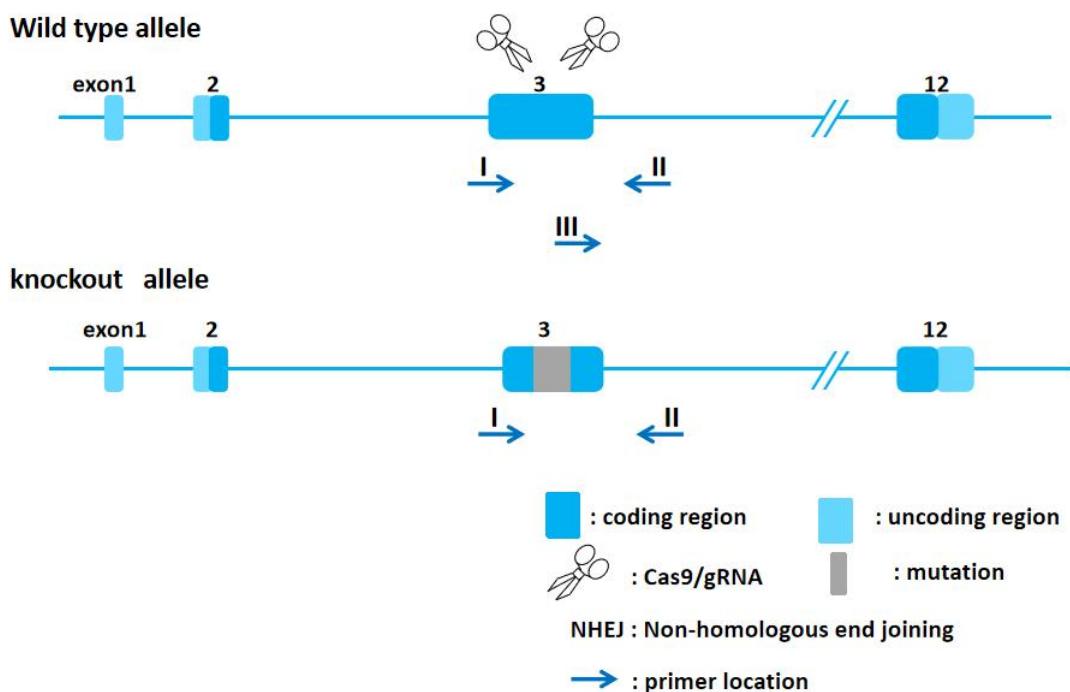


Capn15-KO Genotyping Protocol



Common Name	Capn15-KO	Cat. NO.	NM-KO-233293
Strain of Origin	C57BL/6J	Version	V1

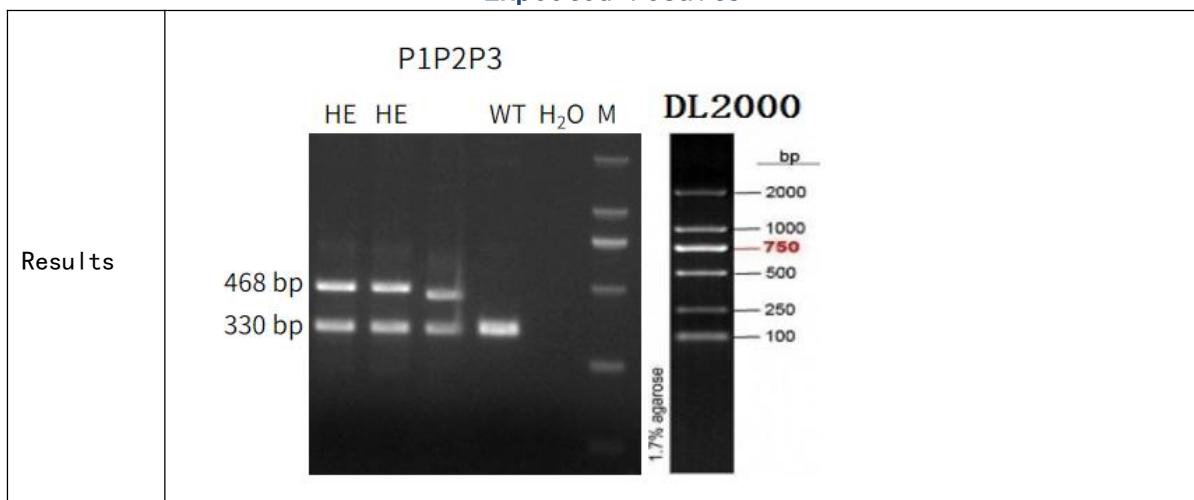
Genotyping strategy



Primers

Primer	Sequence (5' → 3')	Primer type
P1	GCAGGCCACACTCATTCTCCT	Forward
P2	CCATGCTGCCCTGTGTAGAA	Reverse
P3	TGCAGCCTGCCATACACCA	Forward

Expected results



	Knockout type: -1213bp
Genotype	Wild type: P3P2=330 bp Heterozygote: P1P2 =468 bp; P3P2=330 bp Homozygote: P1P2 =468 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 K0 band

Reaction &Cycling

PCR Reaction System	Reaction Component		Volume (μ l)
	ddH2O		7.5
	2×Taq Plus Master Mix		10.0
	P1(10 pmol/ μ l)		0.5
	P2(10 pmol/ μ l)		0.5
	P3(10 pmol/ μ l)		0.5
	Genomic DNA		1.0
	Total		20
2×Taq Plus Master Mix from Vazyme (Code Number: P222-1)			
Cycling Reaction	Step	Temp	Time
	1	95° C	5 min
	2	95° C	20 sec
	3	60° C	20 sec
	4	72° C	20 sec
	5	72° C	5 min
	6	12° C	Hold