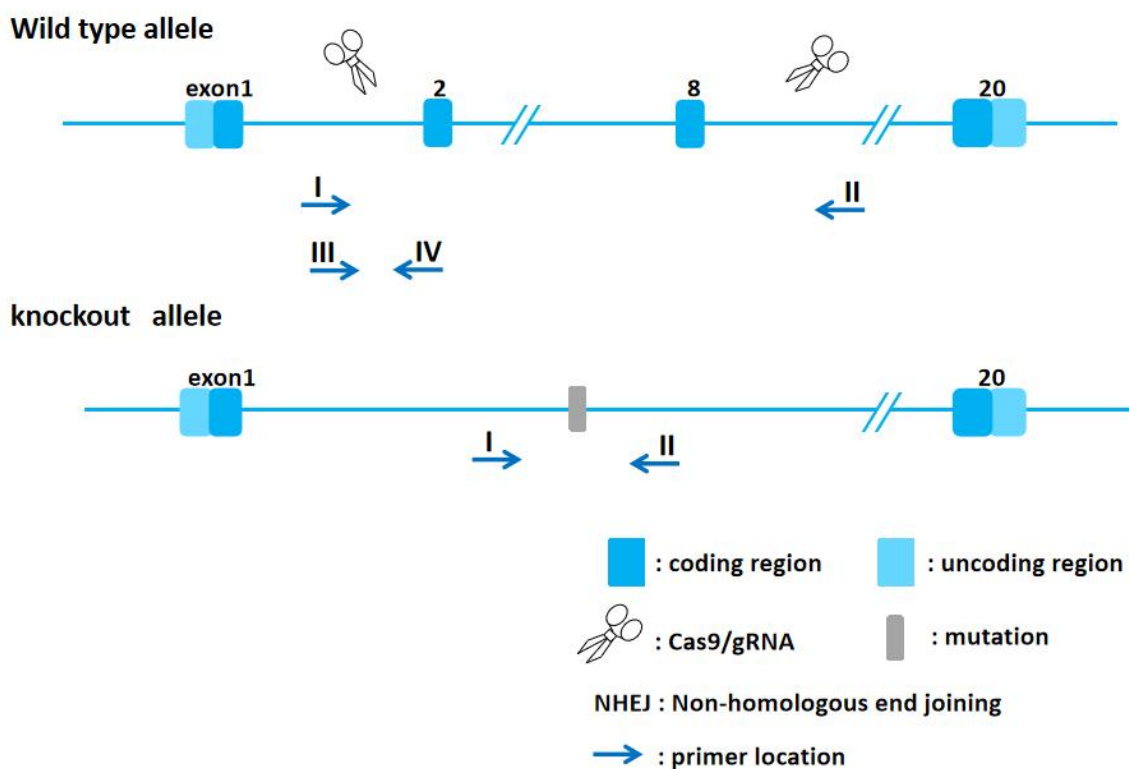


Agps-KO Genotyping Protocol



Common Name	Agps-KO	Cat. NO.	NM-KO-2105835
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy



Primers

Primer	Sequence (5'→3')	Primer type
P1	GCTGAAGTTTGAGGTTGGCA	Forward
P2	TGAAAGCTCCTGCACACTCC	Reverse
P3	GTATGGATTTGATGATAGTTGCTGA	Forward
P4	GCTCAACCTGGCCCTTCTTA	Reverse

Expected results

Results	GeneRuler™ 1 kb DNA Ladder DL2000 641bp 426bp 0.5 µg/lane, 8 cm length gel, 1X TAE, 7 V/cm, 45 min
Genotype	Knockout type: -10810bp Wild type: P1P2 =11451 bp; P3P4 =426 bp Heterozygote: P1P2 =11451 bp and 641 bp; P3P4 =426 bp Homozygote: P1P2 =641 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 Component	Volume (µl)
Reaction	ddH ₂ O	8.0
System	2×Rapid Taq Master Mix	10.0

	P1(10 pmol/μl) or P3(10 pmol/μl)			0.5
	P2(10 pmol/μl) or P4(10 pmol/μl)			0.5
	Genomic DNA			1.0
	Total			20
	2xRapid 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	