

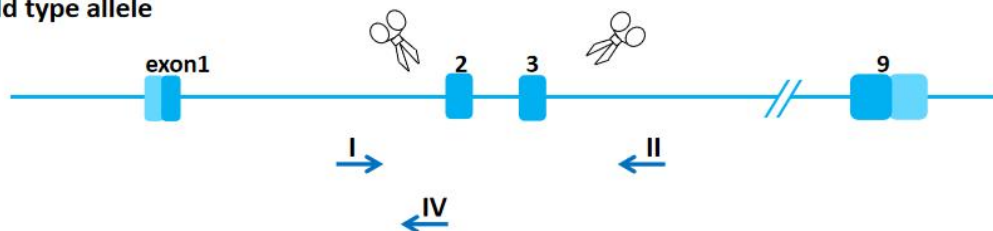
Adamts4-K0 Genotyping Protocol



Common Name	Adams4-KO	Cat. NO.	NM-KO-200013
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



knockout allele



: coding region : uncoding region
 : Cas9/gRNA : mutation
 NHEJ : Non-homologous end joining
→ : primer location

Primers

Primer	Sequence (5' → 3')	Primer type
P1	TAATCCAGACCAGACACTCCTTCCACA	Forward
P2	ACCAGGGCTCTTCAGGGTCCACAT	Reverse
P4	CCACCAGTGTCTCCACGAATCTAC	Reverse

Expected results

Results	
Genotype	Knockout type: -1329bp Wild type: P1P4=494 bp Heterozygote: P1P2 =604 bp; P1P4=494 bp Homozygote: P1P2 =604 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)
	ddH2O			7.5
	2×Taq Plus Master Mix			10.0
	P1 (10 pmol/μl)			0.5
	P2 (10 pmol/μl)			0.5
	P4 (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	