

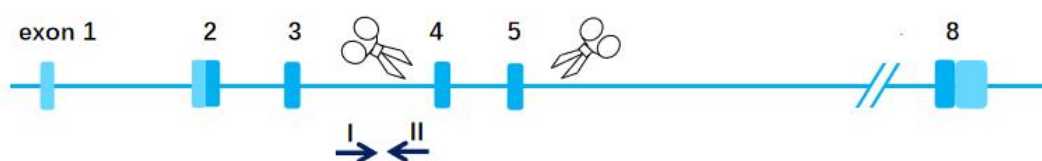
Lox-Flox Genotyping Protocol



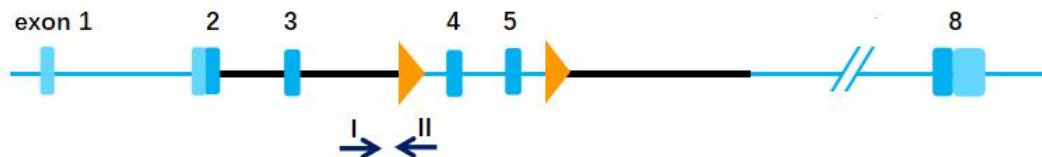
Common Name	Lox-Flox	Cat. NO.	NM-CK0-240058
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



Targeted allele



→ : primer location

Primers

Primer	Sequence (5' → 3')	Primer type
P1	GCGCCCTCAGTTTGGTAGAT	Forward
P2	TGCAACTCTCTGGCGAATGA	Reverse

Expected results

Results	328bp 269bp DL2000 bp 2000 1000 750 500 250 100 1.7% agarose
Genotype	Wild type: P1P2 =269 bp Heterozygote: P1P2 =269 bp and 328 bp Homozygote: P1P2 =328 bp

Reaction &Cycling

	Reaction Component	Volume (μl)
PCR Reaction System	ddH ₂ O	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	