

Npr3-2A-CreERT2 Genotyping Protocol



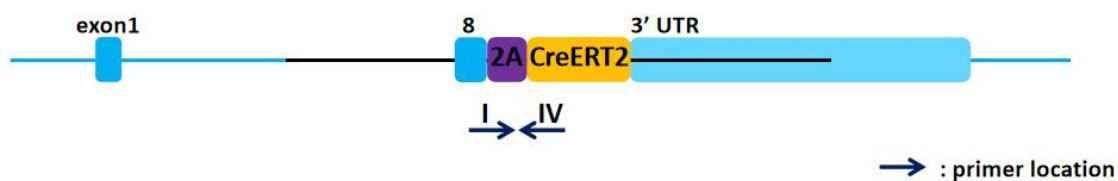
Common Name	Npr3-2A-CreERT2	Cat. NO.	NM-KI-240098
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



Targeted allele



Primers

Primer	Sequence (5' → 3')	Primer type
P1	CATCGAGAGCTGCGAGAAGA	Forward
P2	GAGATGAGAGGCCAGAAGGC	Reverse
P4	ACATCTTCAGGTTCTGCGGG	Reverse

Expected results

Results	P1+P2+P4 329bp 241bp DL2000 bp 2000 1000 750 500 250 100 1.7% agarose
Genotype	Wild type: P1P2 =241 bp Heterozygote: P1P2 =241 bp; P1P4 =329 bp Homozygote: P1P4 =329 bp

Reaction &Cycling

PCR Reaction System	Reaction Component	Volume (μl)
	ddH2O	8.0
	2×Rapid Taq 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×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	