

Trim21-Flox Genotyping Protocol



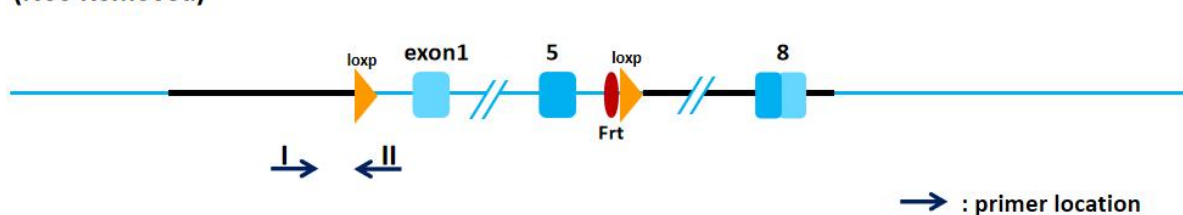
Common Name	Trim21-Flox	Cat. NO.	NM-CK0-234039
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



Targeted allele (Neo Removed)



Primers

Primer	Sequence (5' → 3')	Primer type
P1	ACACAACAGAGTGGTGGGAAA	Forward
P2	GCCCCCTTGTCCTTTAAC	Reverse

Expected results

Results	Agarose gel electrophoresis image. Lanes are labeled HE, HE, WT, M, and H. A DL2000 marker is on the right with sizes 2000, 1000, 750, 500, 250, and 100 bp. Bands are labeled at 306bp and 247bp. The gel is 1.7% agarose.
Genotype	Wild type: P1P2 =247 bp Heterozygote: P1P2 =247 bp and 306 bp Homozygote: P1P2 =306 bp

Reaction &Cycling

PCR Reaction System	Reaction Component			Volume (μl)
	ddH ₂ O			8.0
	2×Taq Plus Master Mix			10.0
	P1 (10 pmol/μl)			0.5
	P2 (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	