

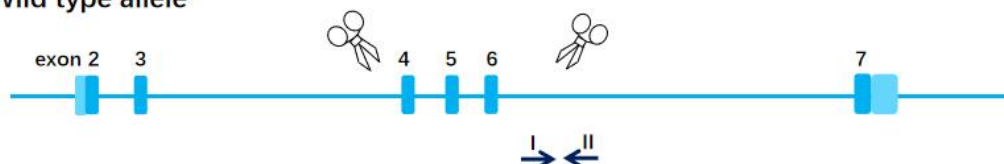
Atf1-Flox(2) Genotyping Protocol



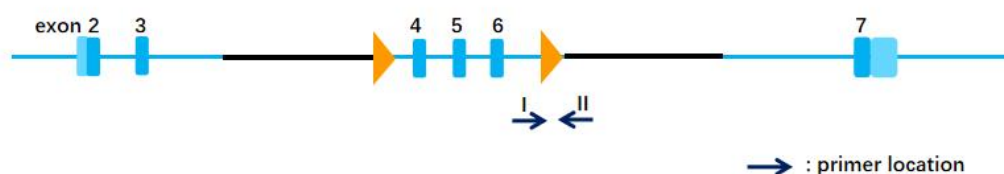
Common Name	Atf1-Flox(2)	Cat. NO.	NM-CKO-240692
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



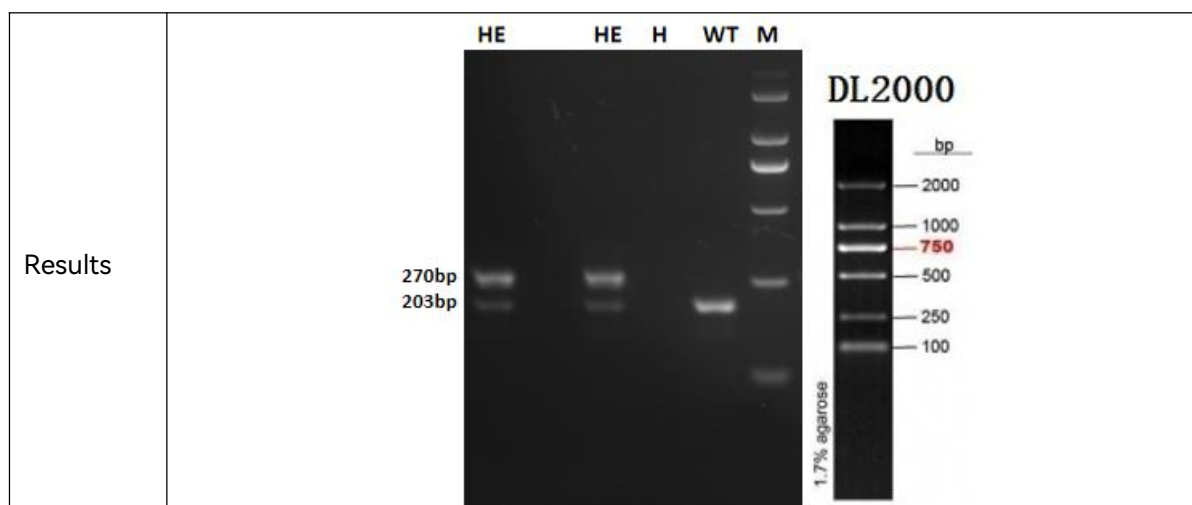
Targeted allele



Primers

Primer	Sequence (5'→3')	Primer type
P1	GTAGGTTTGCATCGGCTTTGG	Forward
P2	TCTCTCGGTCACTTGGCAAT	Reverse

Expected results



Genotype	Wild type: P1P2 =203bp; Heterozygote: P1P2 =270 bp and 203 bp; Homozygote: P1P2 =270 bp
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Reaction &Cycling

PCR Reaction System	Reaction Component			Volume (μl)
	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	