

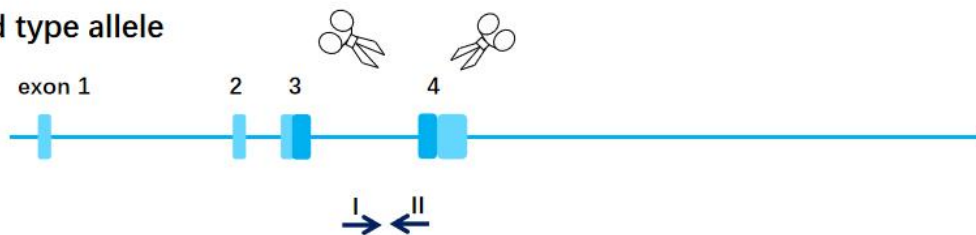
Bmp4-Flox Genotyping Protocol



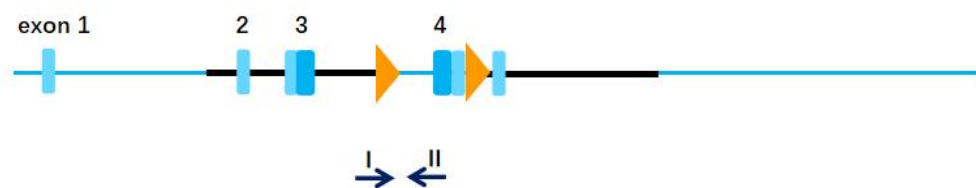
Common Name	Bmp4-Flox	Cat. NO.	NM-CK0-240127
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



Targeted allele

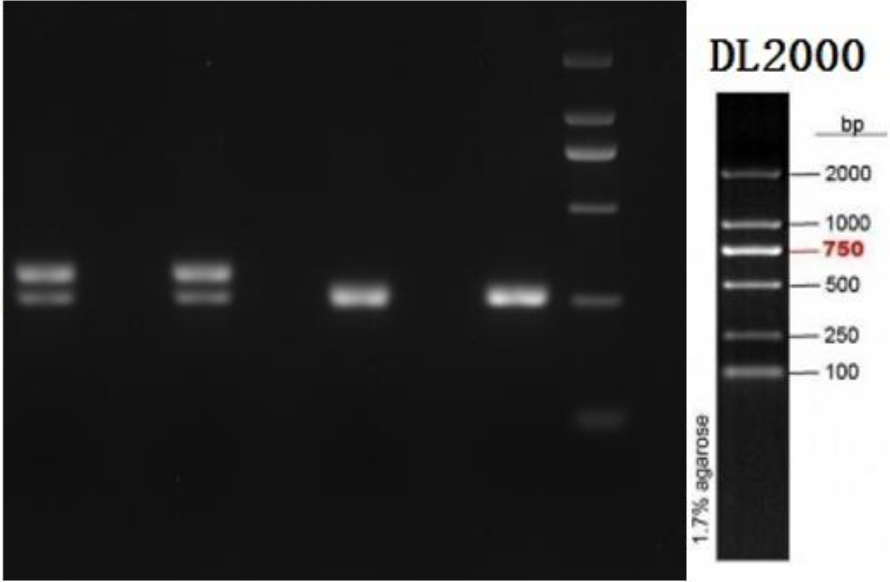


→ : primer location

Primers

Primer	Sequence (5' → 3')	Primer type
P1	TTGCTAGCTGCTCCACAACCTC	Forward
P2	AAAGCAGAGCTCTCACTGGTC	Reverse

Expected results

Results	 <p>DL2000</p> <p>bp</p> <p>2000</p> <p>1000</p> <p>750</p> <p>500</p> <p>250</p> <p>100</p> <p>1.7% agarose</p> <p>HE HE WT WT M H</p> <p>309bp 255bp</p>
Genotype	<p>Wild type: P1P2 =255 bp</p> <p>Heterozygote: P1P2 =255 bp and 309 bp</p> <p>Homozygote: P1P2 =309 bp</p>

Reaction & Cycling

	Reaction Component	Volume (μ l)
PCR	ddH ₂ O	8.0
	2 \times Rapid Taq Master Mix	10.0
Reaction	P1 (10 pmol/ μ l)	0.5
System	P2 (10 pmol/ μ l)	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	