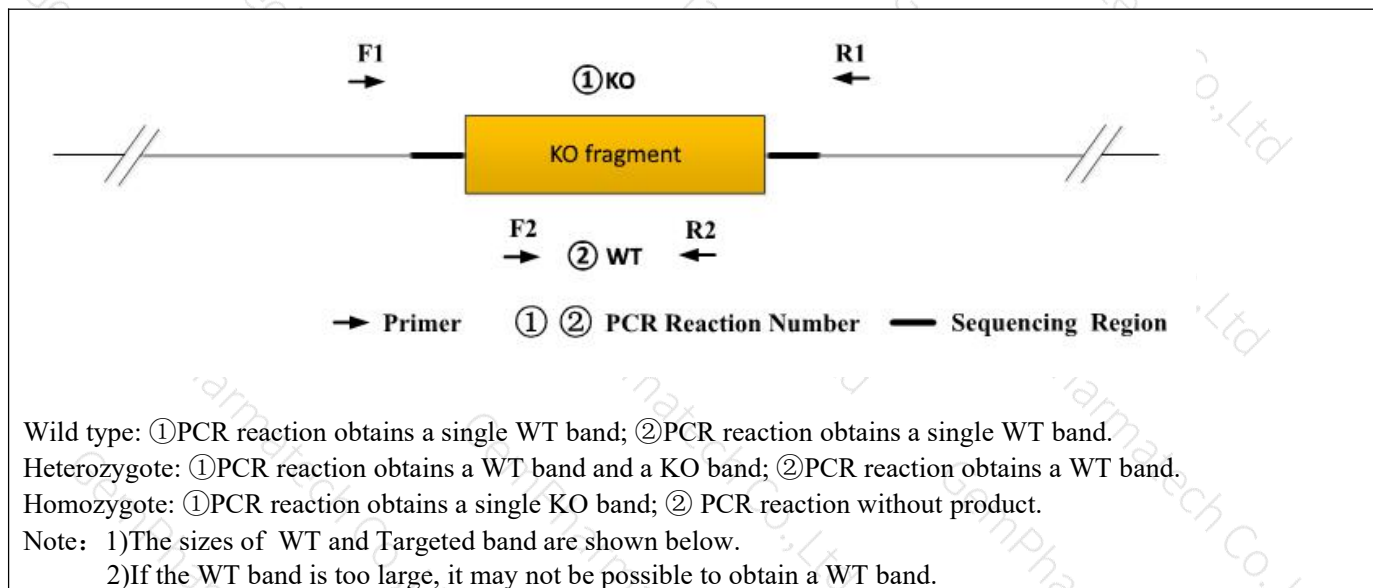


Genotyping Report

Strain ID	T035059	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	<i>Epha10</i>		

1. Strategy of Genotyping

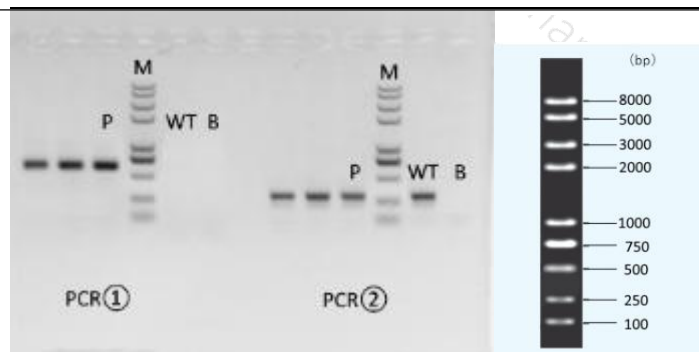


2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
PCR①	T035059-F1	TTTGGGTCTGTCGGCGACATTAG	WT: 5900bp KO: 675bp
	T035059-R1	GGATGGAACCTTTCCTGAACAG	
PCR②	T035059-F2	G TTCAGTTGAATCCAGACGCG	WT: 298bp KO:0bp
	T035059-R2	GCTTTCAGCTTAGAGACAGGAAGC	

3. Gel Image

agcacactgtcagctgcctgccca---5394bp+169bp---
TCTATGCCTGTACTACAGTGGTCTTACAGTGTCTGTGCTCAGGCATTGATCTCGGCAGCCCATCGCATT
GTCTGAGTACGTGATAACTTCGTATAGCATACATTATACGAAGTTATGGGCCAACAGAATTCGATATCCT
GCAGGGACTAACAGAAGAACGCGTTGTGtggggtccatggcagaccgtggaaa



Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH₂O); M: DNA Ladder

4. PCR Condition

PCR Reaction Component			
Seg.	reaction component		Volume (μl)
1	2 × Taq Master Mix , Dye Plus, (Vazyme P112-03)		12.5
2	ddH2O		9.5
3	Primer A(10pmol/μl)		1
4	Primer B(10pmol/μl)		1
5	Template(≈100ng/μl)		1
PCR program			
Seg.	Temp.	Time	Cycle
1	95℃	5min	20×
2	98℃	30s	
3	65℃ （-0.5℃/cycle）	30s	
4	72℃	45s	
5	98℃	30s	20×
6	55℃	30s	
7	72℃	45s	
8	72℃	5min	
9	10℃	hold	