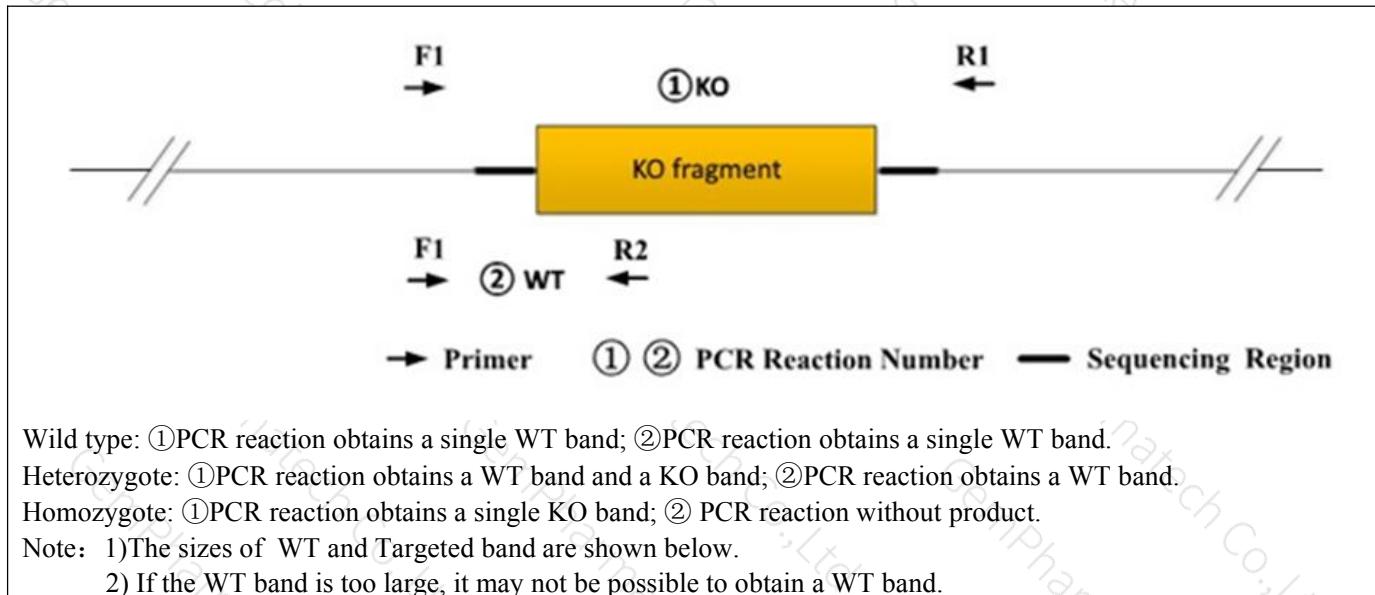




Genotyping Report

Strain ID	T005564	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name			<i>Ilr2</i>

1. Strategy of Genotyping

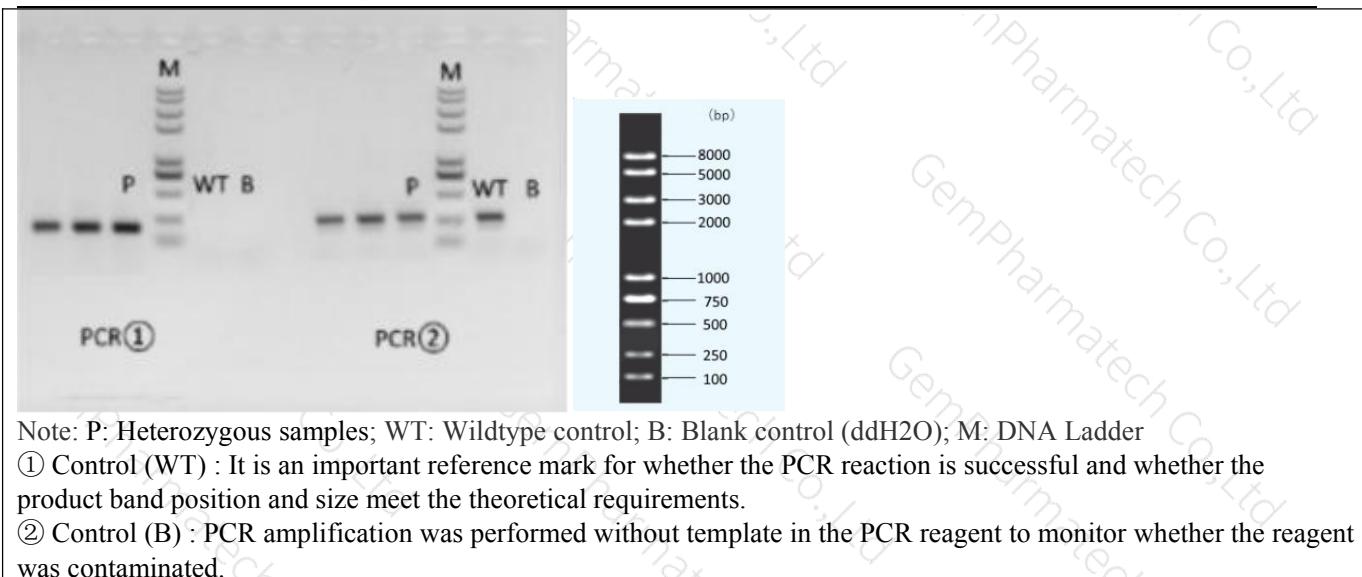


2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
PCR①	T005564-F1	TTATCTTCTAGCGACTGGAGTCAG	WT:8283bp KO:176bp
	T005564-R1	AGTCCTTACAGATAAGAGGCCAGATG	
PCR②	T005564-F1	TTATCTTCTAGCGACTGGAGTCAG	WT:297bp KO:0bp
	T005564-R2	TCTAGCTTCCAAGACACCTGC	

3. Gel Image

tagtggcaatcagatggacgttaacata----**8107bp**---- gggttccgttacgtatttcttgctg



4. PCR Condition

PCR Reaction Component			
Seg.	reaction component	Volume (μl)	
1	2 × Rapid Taq Master Mix (Vazyme P222)	12.5	
2	ddH ₂ O	9.5	
3	Primer A(10pmol/μl)	1	
4	Primer B(10pmol/μl)	1	
5	Template(20~80ng/μl)	1	

PCR program I (priority selection)

Seg.	Temp.	Time	Cycle
1	95 °C	5min	20×
2	98 °C	30s	
3	65 °C * (-0.5 °C /cycle)	30s	
4	72 °C	45s*	
5	98 °C	30s	15×
6	55 °C *	30s	
7	72 °C	45s*	
8	72 °C	5min	
9	10 °C	hold	

PCR program II (the second choice)

Seg.	Temp.	Time	Cycle
1	95 °C	5min	
2	98 °C	30s	35×



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3	58°C*	30s	
4	72°C	45s*	
5	72°C	5min	
6	10°C	hold	

Note*: Annealing temperature and extension time can be determined according to the actual amplification situation and amplification enzyme efficiency.