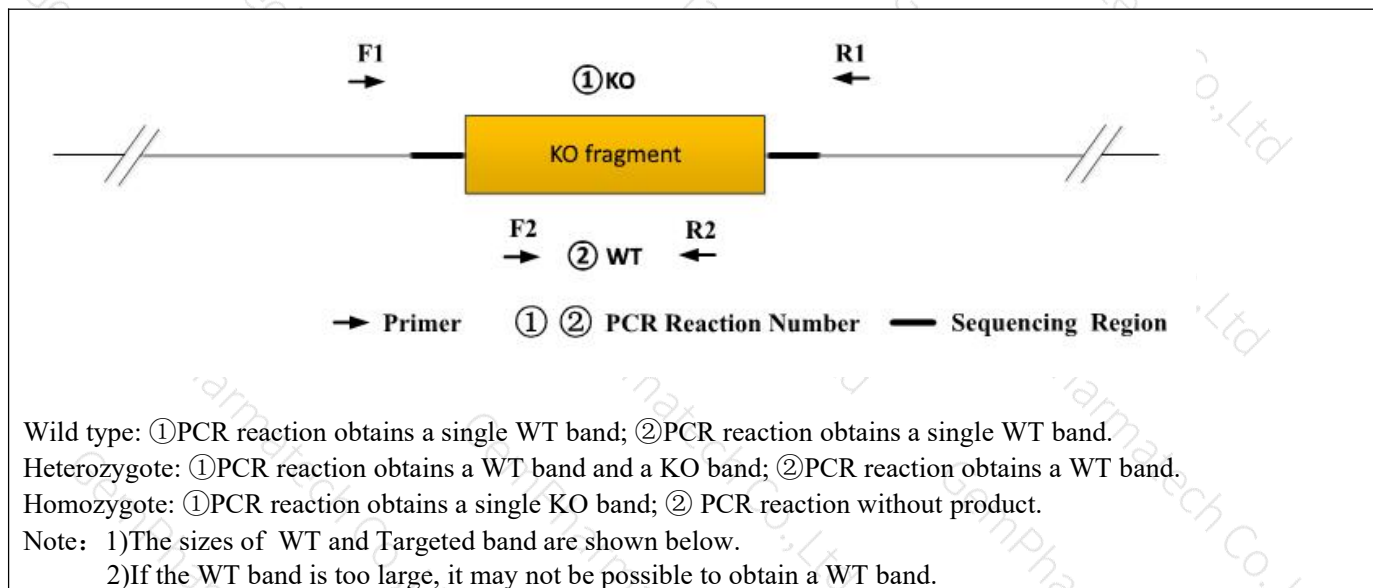


Genotyping Report

Strain ID	T029385	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	<i>Akr1a1</i>		

1. Strategy of Genotyping

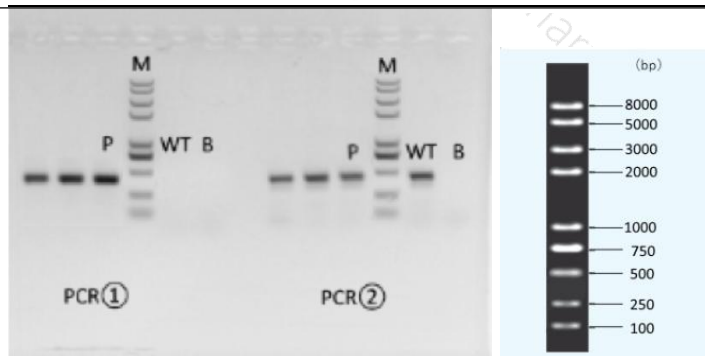


2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
PCR①	F1	JS20318-Akr1a1-5wt-tF1	GTTCTAGGCAGGCACTCTACACAGC	WT:5404bp Target: 404bp
	R1	JS20318-Akr1a1-3wt-tR1	GGTGTTAGGATTGAGAAACAGCATC	
PCR②	F2	JS30318-Akr1a1-wt-F1	GTGGTTGCTGGGATTTGAACTCAG	WT:452bp
	R2	JS30318-Akr1a1-wt-R1	CTGTTTGTAGTGCTCACCTGCAAG	

3. Gel Image

ttggttgagaaaaggtctcacatcaccag-----5000bp-----gctggccaggaactcacagatccactgcc
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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	

Reviewer:Ting Sun

Date:2020-7-1