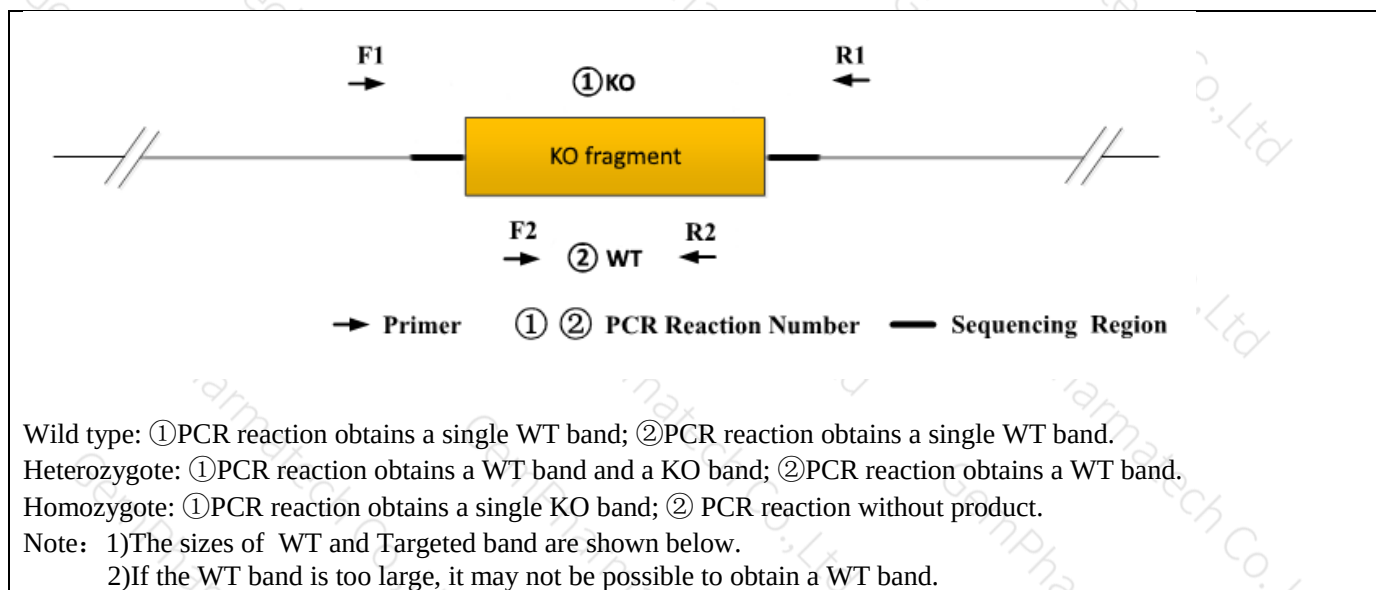


Genotyping Report

Strain ID	T028427	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	<i>Lmx1a</i>		

1. Strategy of Genotyping

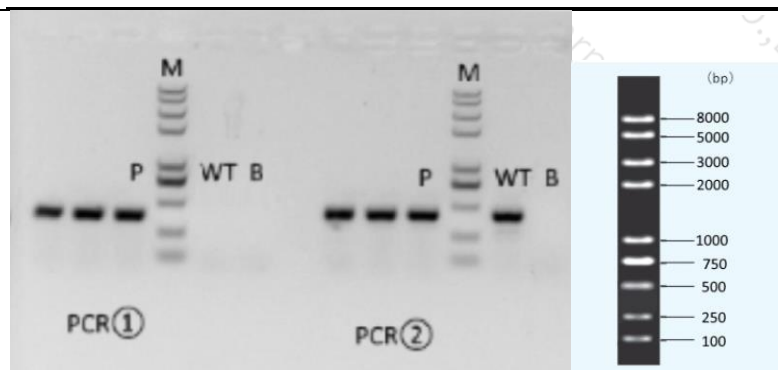


2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
PCR①	T028427-F1	CACTCCACCCCAACAGTTCAGAG	WT:4337bp KO:378bp
	T028427-R1	CAAGTGCCTATAATGAACCACCATG	
PCR②	T028427-F2	GGCTAGAGGGAAACTGTTCTGCA	WT:391bp KO:0bp
	T028427-R2	GCATGCATGCACACACAATCAAC	

3. Gel Image

tctctgcaccatgagaccgcgacccatc---3959bp---atcctggagggtacagctcaacttgggg
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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:2021-7-21