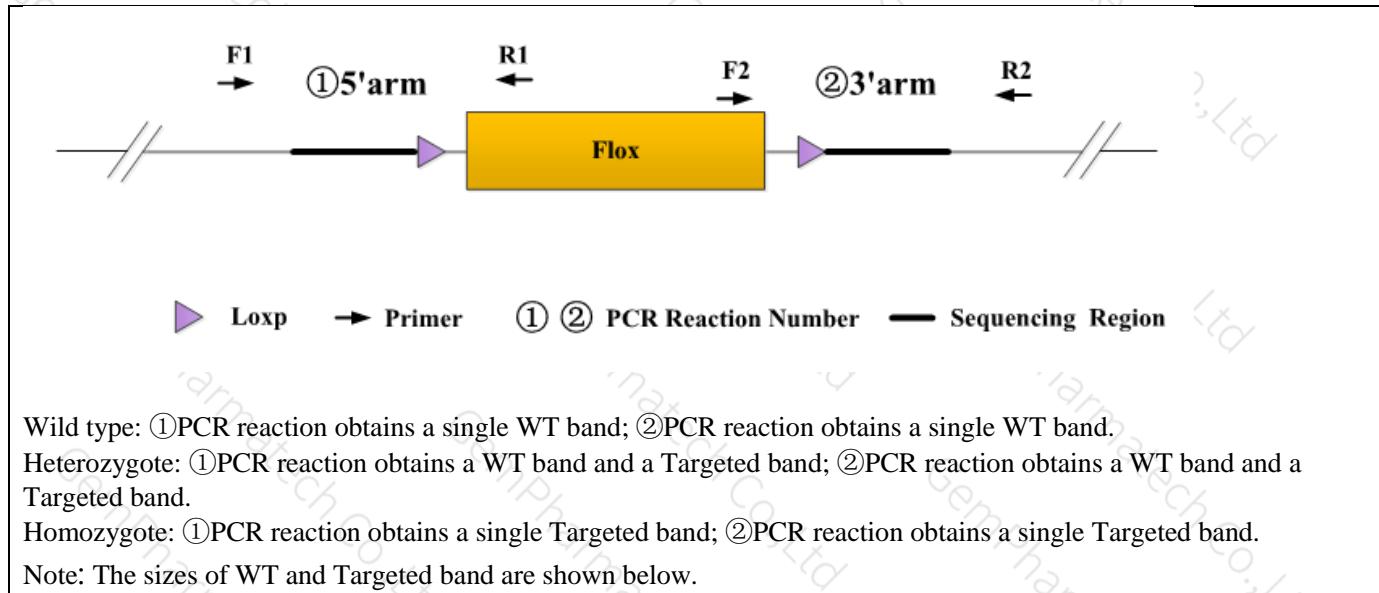




Genotyping Report

Strain ID	T039309	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name			<i>Kcnk16</i>

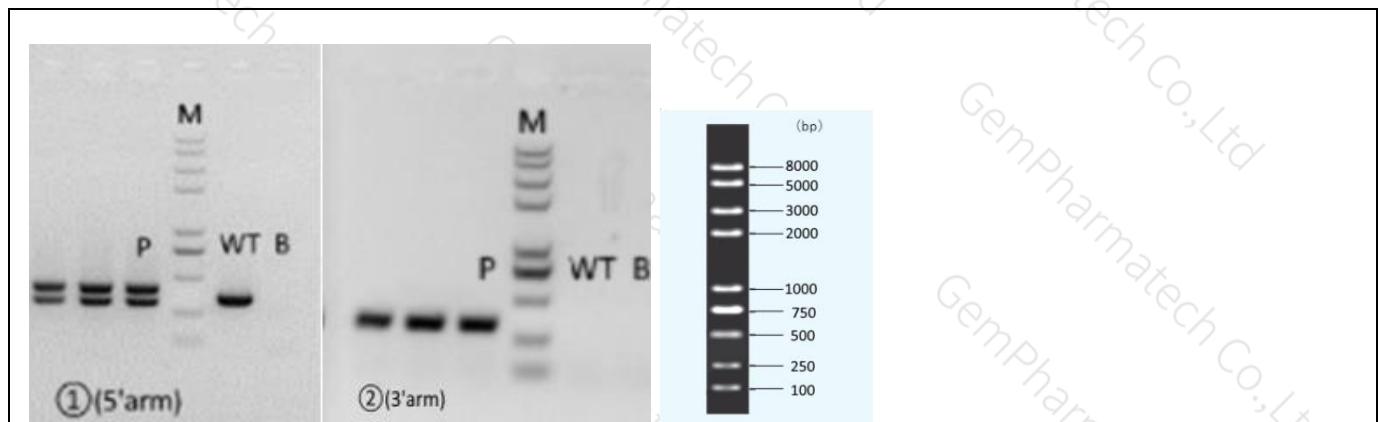
1. Strategy of Genotyping



2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T039309-F1	AGCCTGGTTTACACTGTGAGTCCAG	WT: 284bp Targeted:389bp
	T039309-R1	TGTCTTGAGCAGAACACAGGCTG	
②(3'arm)	T039309-F2	CATCGCATTGTCTGAGTAGGTG	WT: 0bp Targeted:332bp
	T039309-R2	TGTATGTGCCAAGTTCCCTGGAC	

3. Gel Image & Conclusion





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

① Control (WT) : It is an important reference mark for whether the PCR reaction is successful and whether the product band position and size meet the theoretical requirements.

② Control (B) : PCR amplification was performed without template in the PCR reagent to monitor whether the reagent was contaminated.

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(≈100ng/μl)	1

PCR program ① priority selection

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

PCR program ② the second choice

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



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