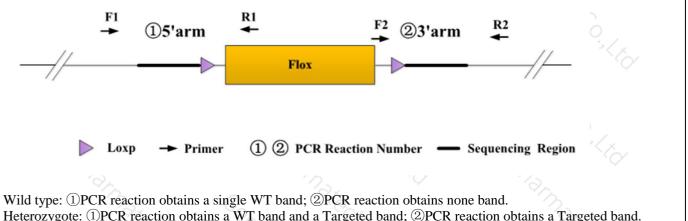


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nar.		Genotyp	oing Report	Charns-	~~< ×
Strain ID	T019007	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Klrk1	6
9 M		, ^^	\u00e9	200	

## 1. Strategy of Genotyping

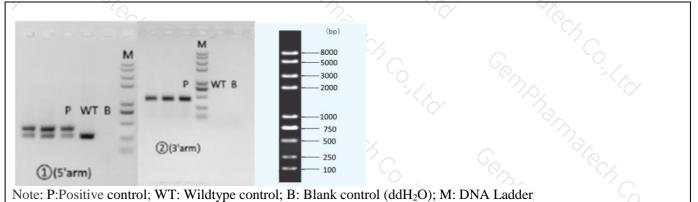


Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a Targeted band. Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a Targeted band. Note: The sizes of WT and Targeted band are shown below.

## 2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
(1)(5'arm)	T019007-F1 CCCATTCCTAACTGATGAGGCA		WT:272 bp Targeted:376 bp
	T019007-R1 CCCATTCCTAACTGATGAGGCA		
@(3'arm)	T019007-F2	CCCATTCCTAACTGATGAGGCA	WT:0 bp Targeted:421 bp
	T019007-R2	CCCATTCCTAACTGATGAGGCA	

## 3. Gel Image & Conclusion



① Control (WT) : It is an important reference mark for whether the PCR reaction is successful and whether the



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product band position and size meet the theoretical requirements.

<sup>(2)</sup> 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	) )	AN CA		
Seg.	reaction	reaction component			
1 75,	2 × Rapid Taq Master Mix (Vazyr	2 × Rapid Taq Master Mix (Vazyme P222)			
2	ddH2O	$\sim \sim \sim$	9.5		
3	Primer A(10pmol/µl)		1 A		
4	Primer B(10pmol/μl)	Primer B(10pmol/µl)			
5	Template(≈100ng/µl)	Template(≈100ng/μl)			
PCR program	① priority selection				
Seg.	Temp.	Time	Cycle		
1	95°C	5min	CIAFIN -		
2 6	98°C	30s	20×		
3	65℃*(-0.5℃/cycle)	30s	$\overline{\mathcal{D}}_{\mathcal{A}}$		
4	72℃	45s*			
5	98°C	30s	20×		
6	55℃*	30s			
7 2	72°C	45s*			
8	72°C	5min	Par ila		
9	<b>10</b> °C	hold	173× 19		
PCR program	② the second choice	- 73× 60	202 202		
Seg.	Temp.	Time	Cycle		
1	95°C	5min			
2	98°C	30s	35×		
3	58°C*	58°C* 30s			
4	72°C	45s*			
5	<b>72℃</b>	5min			
6	10°C	hold	ng p		

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