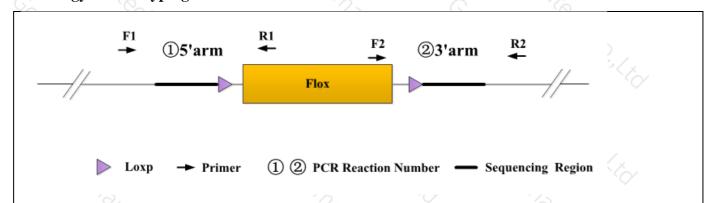
# **Genotyping Report**

Strain ID	T008178	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	3/2	prdx3	0)

## 1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.

Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.

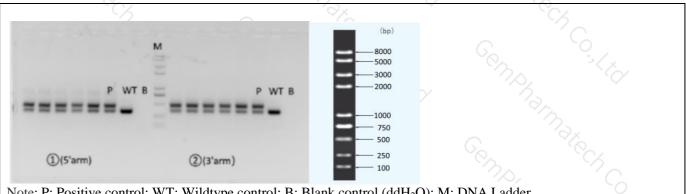
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

Note: The sizes of WT and Targeted band are shown below.

#### 2. Primer Information

PCR No.	Primer No.	Sequence	Band Size	
①(5'arm)	T008178-F1	GCTGTGGGCTCATACTTAAGTCTGAGT	WT: 297bp Targeted: 402bp	
	T008178-R1	78-R1 GCTCTCAGTCAAGGAATAGGGTGAA		
②(3'arm)	T008178-F2	008178-F2 AGACAAGGTTTCTCTGTCTAGCCCTG		
	T008178-R2	AGACTGGCTTAGGGAACCATTTATC	Targeted: 410bp	

## 3. Gel Image & Conclusion



Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH<sub>2</sub>O); 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.	rea	reaction component		
170,	2 × Rapid Taq Master Mix	2 × Rapid Taq Master Mix (Vazyme P222)		
2 %	ddH2O	۶, 7 <sub>C</sub>	9.5	
3	Primer A(10pmol/μl)	3/2 3/x	12	
1	Primer B(10pmol/μl)	J <sup>3×</sup> A	1 0	
5	Template(≈100ng/μl)	, CX	1 7	
PCR program	① priority selection	) <sub>2</sub> (G	G. 3/x	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	(an)	
	98℃	30s	20×	
	65°C* (-0.5°C/cycle)	30s	3	
1 ?	<b>72℃</b>	45s*		
5	98°C	30s	20×	
5 6	55℃*	30s	Co. Yeu	
1 70/	<b>72℃</b>	45s*	7/20) 1/2 C	
3	<b>72℃</b>	5min	3/x 3/x	
)	10°C	hold	- 173× (C	
PCR program	② the second choice	79×	C4 C4	
Seg.	Temp.	Time	Cycle	
ı (9/7)	95℃	5min		
<u>)</u>	98℃	30s	35×	
3	58℃*	30s	7	
	<b>72℃</b>	45s*	G. 9./.	
7	<b>72℃</b>	5min	70 <sub>2</sub>	
	10°C	hold	3.	

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