


Genotyping Report

Strain ID	T015890	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	<i>Prkcb</i>		

1. Strategy of Genotyping



▶ Loxp \rightarrow Primer ① ② PCR Reaction Number — Sequencing Region

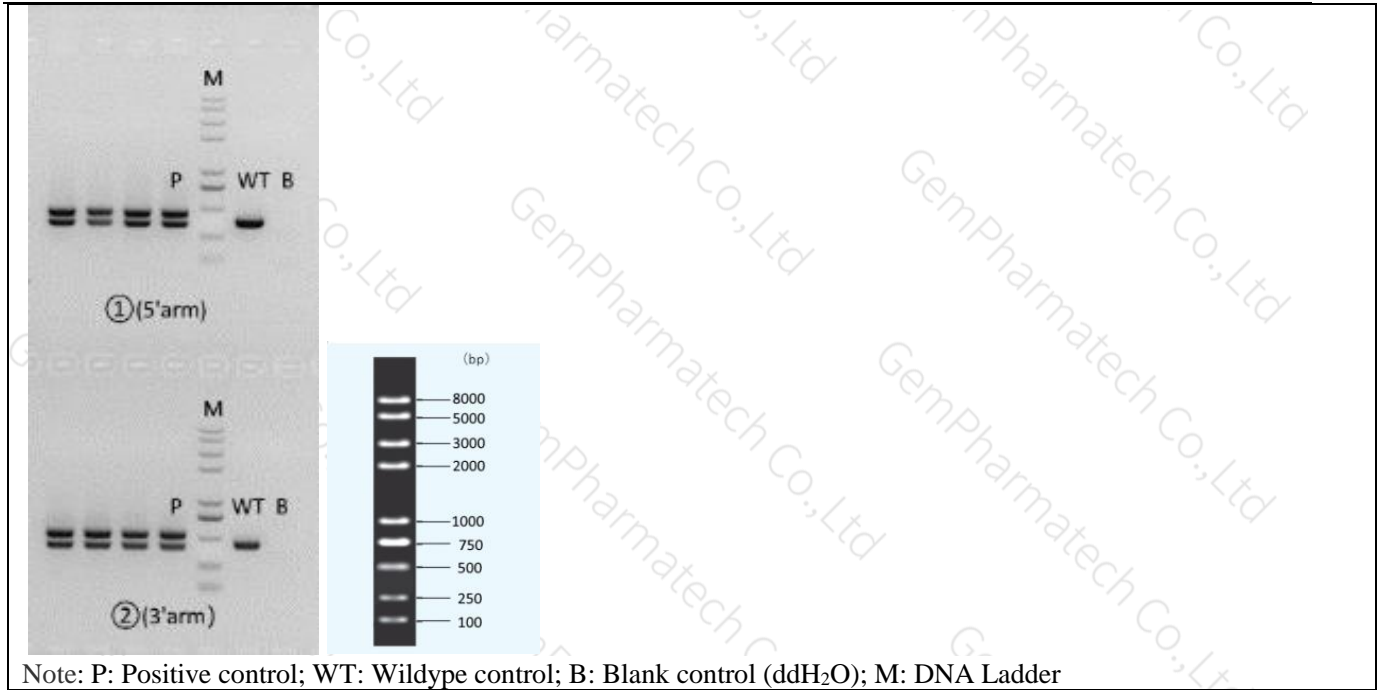
Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.
 Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.
 Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single 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)	T015890-F1	GATCCACTTTCCTGATTGTCCTGG	WT:383bp Targeted:488bp
	T015890-R1	ACTCATAGAGATGCGATTGTGTGG	
②(3'arm)	T015890-F2	CAAGAGCCTGTCATTCCTGGTG	WT:419bp Targeted:520bp
	T015890-R2	GGTGCTTCTCTGCCAGATATAGTG	

3. Gel Image & Conclusion

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4. PCR Condition

PCR Reaction Component			
Seg.	reaction component	Volume (μl)	
1	2 × Taq Master Mix , Dye Plus, (Vazyme P112-03)	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			
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	
6	55°C	30s	20×
7	72°C	45s	
8	72°C	5min	
9	10°C	hold	

