

		Genotyp	ing Report		Contraction of the second s
Strain ID	T018484	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	34 x	Prkacb	°C
Strategy of	Genotyping		ng.	C ALWARD	
	^{F1} → ①5'arn	R1	F2 @2	'arm R2	

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.

Primer

1 2 PCR Reaction Number - Sequencing Region

2. Primer Information

Loxp

PCR No.	Primer No.	Sequence	Band Size
(1)(5'arm)	T018484-F1	GCTATTTCCAGAAATGCATAAGCG	WT: 228bp
	T018484-R1	AATCCCCAAATAGGGCAAAGCA	Targeted: 333bp
@(3'arm)	T018484-F2	GAAAGAAGGCCATGTAATTAACTTCTGG	WT: 254bp
	T018484-R2	GAGTGTGGATCCGGTTGGTTAGA	- Targeted: 355bp

3. Gel Image & Conclusion





Note: P: Positive control; WT: Wildype control; B: Blank control (ddH_2O); 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 C	Component	~ C	Contraction of the contraction o	
Seg.	reac	tion component	Volume (μl)	
1 6	2 × Rapid Taq Master Mix (2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O	ddH2O		
3	Primer A(10pmol/µl)	í C		
4	Primer B(10pmol/µl)	s · </td <td></td>		
5	Template(≈100ng/µl)	Template(≈100ng/μl)		
PCR program	D priority selection	and a	A AN	
Seg.	Temp.	Time	Cycle	
1	95°C	5min	non Co	
2	98°C	30s	20×	
3	65℃* (-0.5℃/cycle)	30s	4×	
4	72°C	45s*	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
5	98°C	30s	20×	
6	55℃*	30s		
7	72℃	45s*	1212	
8	72°C	5min	0 26	
9	10°C	hold	No.	

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Seg.	Temp.	Time	Cycle
1 30	95°C	5min 🔗	and it
2	98°C	30s	35×
3	58°C*	30s	
4	72°C	45s*	
5	72°C	5min	m d
6	10°C	hold	

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