

		Genotypi	ing Report		
Strain ID	T018028	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Tnnc1	°C
Strategy of (Genotyping → ①5'arm	R1 ←	F2 @3	'arm R2))
_//			→ ⊌;	//	
	Loxp 🔶 Prim	er (1) (2) PCI	R Reaction Number	- Sequencing Region	

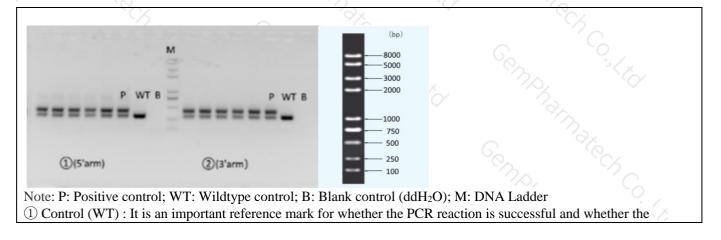
Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band. Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band. Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted 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)	T018028-F1	TCTCAGGAAATTCTCTCCCAACCC	WT: 323bp	
	T018028-R1	ACCCACTGTAACCTGACCAGGGT	Targeted:425bp	
@(3'arm)	T018028-F2	T018028-F2 TACCTTGCAGCCAACCAAGGAC		
	T018028-R2 ATTCTGGCTGGAGCCTGGTTGT		Targeted:414bp	

3. Gel Image & Conclusion





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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		M. M		
Seg.	reaction co	reaction component			
175,	2 × Rapid Taq Master Mix (Vazym	2 × Rapid Taq Master Mix (Vazyme P222)			
2 3	ddH2O	ddH2O			
3	Primer A(10pmol/µl)	. ··· / x	1		
4	Primer B(10pmol/μl)		1		
5	Template(≈100ng/µl)	Template(≈100ng/μl)			
PCR program	① priority selection	C C	· · · · · · · · · · · · · · · · · · ·		
Seg.	Temp.	Time	Cycle		
1	95°C	5min	ann-		
2 6	98°C	30s	20×		
3 ⁷ /2,	65°C*(-0.5°C/cycle)	30s	24. 3		
4	72℃	45s*			
5	98°C	30s	20×		
6	55°C*	30s			
7 2	72°C	45s*			
8	72°C	5min	Dr. Sh		
9	10°C	hold	1 Max 1 4		
PCR program	② the second choice	Tak Con			
Seg.	Temp.	Time	Cycle		
1	95°C	5min			
2	98°C	30s	35×		
3	58℃*	30s	3		
4	72°C	45s*			
5	72℃	5min	$\gamma_{\mathcal{A}_{\mathcal{L}}}$		
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.