

Strain ID	T024456	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JG
Designer	Ya'nan Xu	Gene Name		Zkscan17	°C
trategy of G	Genotyping	- A	m.	C ALMAR	
	F1 → ①5'arm	R1 ← Flox		'arm <del>≪</del>	

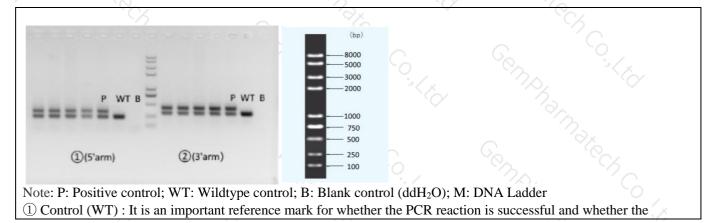
Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band. Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.

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)	T024456-F1	CCACTCTACCCTACTGCCCTCCTT	WT: 231bp	
	T024456-R1	GAACAATCCCTCTTGTGACTAGAAACC	Targeted:336bp	
(2)(3'arm)	T024456-F2	ACACATTTAGTCCCAGTACTGGGGAG	WT: 274bp	
	T024456-R2	TGCAGGGAATCAAATCCAGGTC	Targeted:380bp	

## 3. Gel Image & Conclusion





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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		M. M		
Seg.	reaction co	reaction component			
$1^{\gamma}$	2 × Rapid Taq Master Mix (Vazym	2 × Rapid Taq Master Mix (Vazyme P222)			
2 73	ddH2O	ddH2O			
3	Primer A(10pmol/µl)	. 3/x	1		
1	Primer B(10pmol/μl)		1		
5	Template(≈100ng/µl)	Template(≈100ng/µl)			
PCR program	① priority selection	í Constantino de Cons			
Seg.	Temp.	Time	Cycle		
1	95℃	5min	CULE .		
2 6	98°C	30s	20×		
3 <sup>N</sup> S,	65℃*(-0.5℃/cycle)	30s			
4 7	72°C	45s*			
5	98°C	30s	20×		
5 6	55℃*	30s			
	72°C	45s*			
3	72°C	5min	Dr. Slx		
Ð	<b>10</b> ℃	hold	( ) <sub>2</sub> , (9		
PCR program	② the second choice	Tax Con	2 <sup>2</sup> C/		
Seg.	Temp.	Time	Cycle		
1 97	95℃	5min	AND - CA		
2	98°C	30s	35×		
3	58℃*	58°C* 30s			
4	72°C	45s*			
5 7/	<b>72℃</b>	5min			
6	10°C	hold	ngr.		

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