

			Genotypi	ing Report		Co. K. K.
Strain ID		Г036694	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Y	'a'nan Xu	Gene Name	34	Isl2	6
. Strategy of	Genot	yping		3	C ALLA	3 ( <sub>X</sub> (
	F1 →	①5'arm	R1 <del>←</del>	F2 ➡ ②3	'arm 🐥	) 3/x

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.

(1) (2) PCR Reaction Number -

- Sequencing Region

Flox

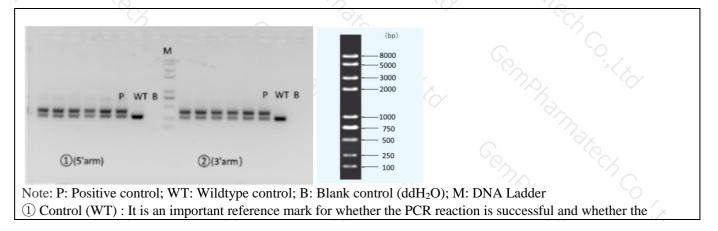
Primer

## 2. Primer Information

Loxp

PCR No.	Primer No.	Sequence	Band Size	
(1)(5'arm)	T036694-F1	TAAGAGGACATCCAAGCTGGGTC	WT: 287bp	
	T036694-R1	CTGCTAGATTCTGGGAAAGGAGC	Targeted:392bp	
2)(3'arm)	T036694-F2	ACCATGTAGGATCGGGAGAGTGGA	WT: 261bp	
	T036694-R2	ATTTCCCAGTCTGAGCAACTCCTG	Targeted:367bp	

## 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				
175,	2 × Rapid Taq Master Mix (Vazym	2 × Rapid Taq Master Mix (Vazyme P222)				
2 3	ddH2O		9.5			
3	Primer A(10pmol/µl)	. ··· / x	1			
4	Primer B(10pmol/μl)		1			
5	Template(≈100ng/µl)	4/2				
PCR program	① priority selection	C C	· · · · · · · · · · · · · · · · · · ·			
Seg.	Temp.	Time	Cycle			
1	95°C	5min	ann-			
2 6	98°C	30s	20×			
3 <sup>7</sup> /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.