

		Genotyp	ing Report		Co.
Strain ID	T015301	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	34×	Lmx1b	°C
. Strategy of (Genotyping	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3	armare.	3 < x
	F1 → ①5'arm	R1 ◀	F2 ②3	'arm ≰)
_//	>		->-	//	

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

1 2 PCR Reaction Number - Sequencing Region

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.

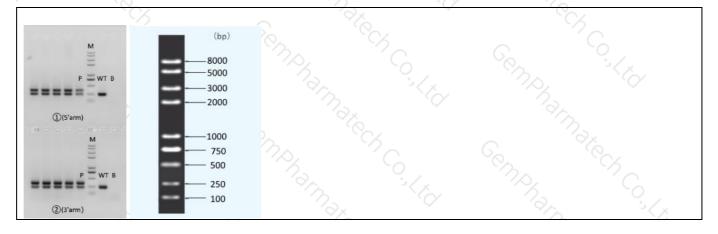
Loxp

Primer

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size	
(1)(5'arm)	T015301-F1	TGGTTGTCCCTTACCCATTCTGC	WT: 247bp Targeted: 353bp	
	T015301-R1	TTCCTGGAGGAGAAGCCCCTTAT		
(2)(3'arm)	T015301-F2	TGGCCAGTGCCCATCAGTTTAG	WT: 240bp	
	T015301-R2	TAGGCCCACACCAGCTTATAGCTT	– Targeted: 345bp	

3. Gel Image & Conclusion





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Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH₂O); 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 Com	ponent	AL COL	20°	
Seg.	reaction co	reaction component		
1 20	2 × Rapid Taq Master Mix (Vazyme	2 × Rapid Taq Master Mix (Vazyme P222)		
2 2	ddH2O	· · · · · · · · · · · · · · · · · · ·	9.5	
3	Primer A(10pmol/µl)	Primer A(10pmol/μl)		
4	Primer B(10pmol/µl)	Primer B(10pmol/µl)		
5	Template(≈100ng/µl)	Template(≈100ng/µl)		
PCR program $\textcircled{1}$ p	priority selection			
Seg.	Temp.	Time	Cycle	
1 6	95°C	5min	× 500	
2	98°C	30s	20×	
3	65°C* (-0.5°C/cycle)	30s		
4	72℃	45s*	A A A	
5	98°C	30s	20×	
6	55℃*	30s	$\overline{\mathcal{A}}$	
7 75	72°C	45s*	on str	
8	72℃	5min	192	
9	10°C	hold		
PCR program ②	the second choice		×. 6.	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	197 ₈ 04	
2	98°C	30s	35×	
3	58°C*	30s 🕤		
4 7	72°C	45s*		
5	72°C	5min	and a	
6	10℃	hold	AX.	

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



