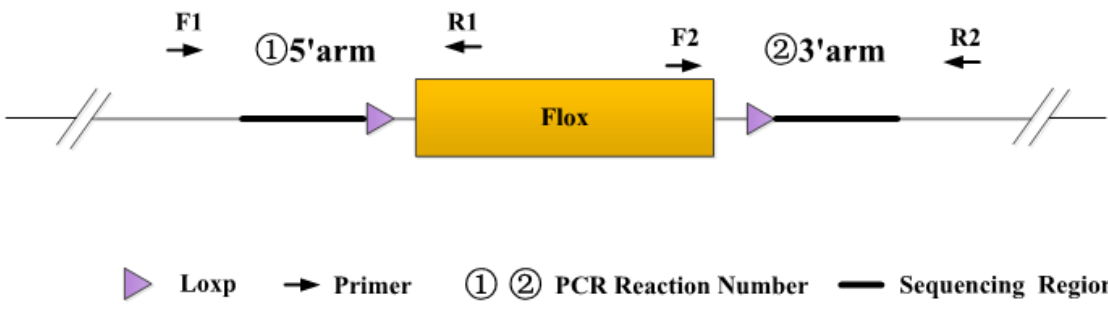


Genotyping Report

Strain ID	T016179	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Xiaomin Shi	Gene Name	<i>Cacna1a</i>		

1. Strategy of Genotyping



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)	T016179-F1	GCACAAGTACCACCAAATCCTCAG	WT: 357bp Targeted: 462bp
	T016179-R1	ATGTGGCTGTTGCCTTGGTGA	
② (3'arm)	T016179-F2	ACAGCCTAGAGCCCTCTCTGTATTG	WT: 319bp Targeted: 425bp
	T016179-R2	GCCCATCTCCACTTGTTCCTAAGC	

3. Gel Image & Conclusion

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4. PCR Condition

PCR Reaction Component			
Seg.	reaction component		Volume (μl)
1	2 × Taq Master Mix , Dye Plus, (Vazyme P112-03)		12.5
2	ddH2O		9.5
3	Primer A(10pmol/μl)		1
4	Primer B(10pmol/μl)		1
5	Template(≈100ng/μl)		1
PCR program			
Seg.	Temp.	Time	Cycle
1	95℃	5min	20×
2	98℃	30s	
3	65℃ (-0.5℃/cycle)	30s	
4	72℃	45s	
5	98℃	30s	20×
6	55℃	30s	
7	72℃	45s	
8	72℃	5min	
9	10℃	hold	