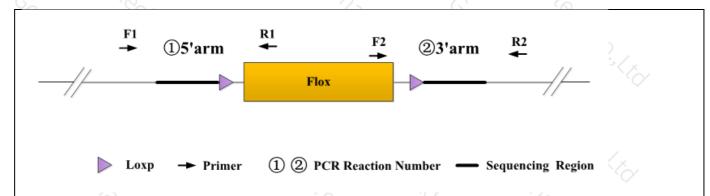
# **Genotyping Report**

Strain ID	T041617	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	);<	Adam29	6

### 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.

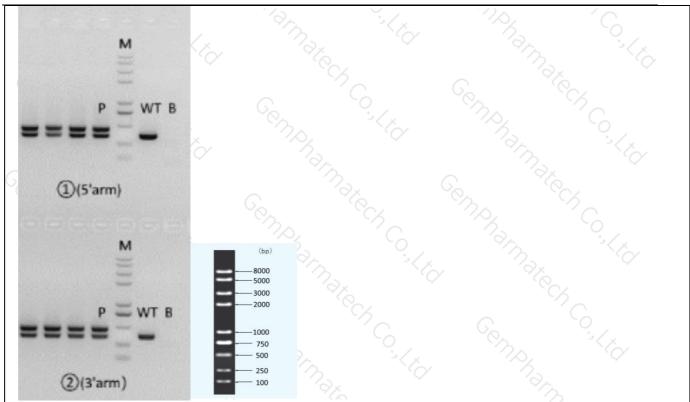
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

Note: The sizes of WT and Targeted band are shown below.

#### 2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
3(5)	T041617-F1	GGAGAACTGGCTTCTGATGTTGTC	WT: 349bp
(1)(5'arm)	T041617-R1 TGCCACAATACCTAGTAGAACCGG		Targeted: 454bp
②(3'arm)	T041617-F2	GCCTTTGGAGAAAGCATTGTCAG	WT: 368bp
	T041617-R2 CTACCTCAAGATCCGTCTACACCAC		Targeted: 474bp

## 3. Gel Image & Conclusion



Note: P: Positive control; WT: Wildype 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	Component	>	3/2 3/2/	
Seg.	reaction c	reaction component		
1	2 × Rapid Taq Master Mix(Vazyn	2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O	3	9.5	
3	Primer A(10pmol/µl)		12	
4	Primer B(10pmol/μl)	35.	1	
5	Template(≈100ng/μl)	Template(≈100ng/μl)		
PCR program	① priority selection	70	6	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	23/2	
2	98℃	30s	20×	
3	65℃* (-0.5℃/cycle)	30s	(2) (2)	
4	72°C	45s*		



5	98℃	30s	20×
6	55℃*	30s	3/2 3/4
7	72℃	45s*	() 3× ()
8	<b>72</b> ℃	5min	C/2 (C/2)
9	10℃	hold	72/ S
PCR program ②	the second choice	~%.	9/2 3/2
Seg.	Temp.	Time	Cycle
1 7	95℃	5min	m. "M.
2	98℃	30s	35×
3	58℃*	30s	73. Y
4	<b>72</b> ℃	45s*	1600
5	<b>72</b> ℃	5min	<u> </u>
6	10℃	hold	82 34x

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