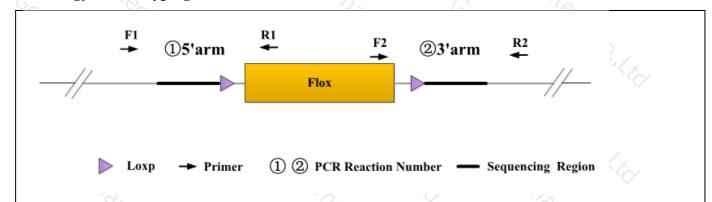


# **Genotyping Report**

Strain ID	T051787	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/2	Fbxo38	C

### 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.

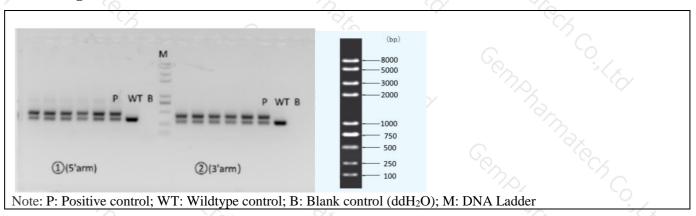
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

### 2. Primer Information

PCR No.	Primer No.	Sequence	Band Size	
①(5'arm)	T051787-F1	1787-F1 CAGCAGAAAGATAGTGAGCATGCAC		
	T051787-R1	AGCTACTTCCTGCTGCCATTCTT	Targeted:408bp	
②(3'arm)	T051787-F2	CTCCTCTTCTCAAGGTAACCATCATC	WT: 276bp Targeted:382bp	
	T051787-R2	AGGACACTGGGTAAAGCAAGCAT		

## 3. Gel Image & Conclusion





- 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 Compo	onent	. 0	7/2×
Seg.	reaction component		Volume (μl)
1	2 × Rapid Taq Master Mix (Vazyme P222)		12.5
2	ddH2O	0./	9.5
3	Primer A(10pmol/μl)		19%
1	Primer B(10pmol/μl)	S	1 %
5	Template(≈100ng/μl)	7°C 6°C	1
PCR program ① pri	ority selection	3/,	20.
Seg.	Temp.	Time	Cycle
1 G	95℃	5min	170 AX
2	98°C	30s	20×
3	65°C* (-0.5°C/cycle)	30s	3. 6.
1 2	72°C	45s*	3/2
5 (2)	98°C	30s	20×
5	55℃*	30s	10%
7	<b>72℃</b>	45s*	
3 %.	72°C	5min	72
	10℃	hold	7
PCR program ② the	e second choice	100 M	. 7
Seg.	Temp.	Time	Cycle
1 72%	95℃	5min	(1) Jak
2	98℃	30s	35×
3 6	58°C*	30s	
1 7/2/	72°C	45s*	3/2
5	<b>72℃</b>	5min	Ž,
6	<b>10</b> ℃	hold	70

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

