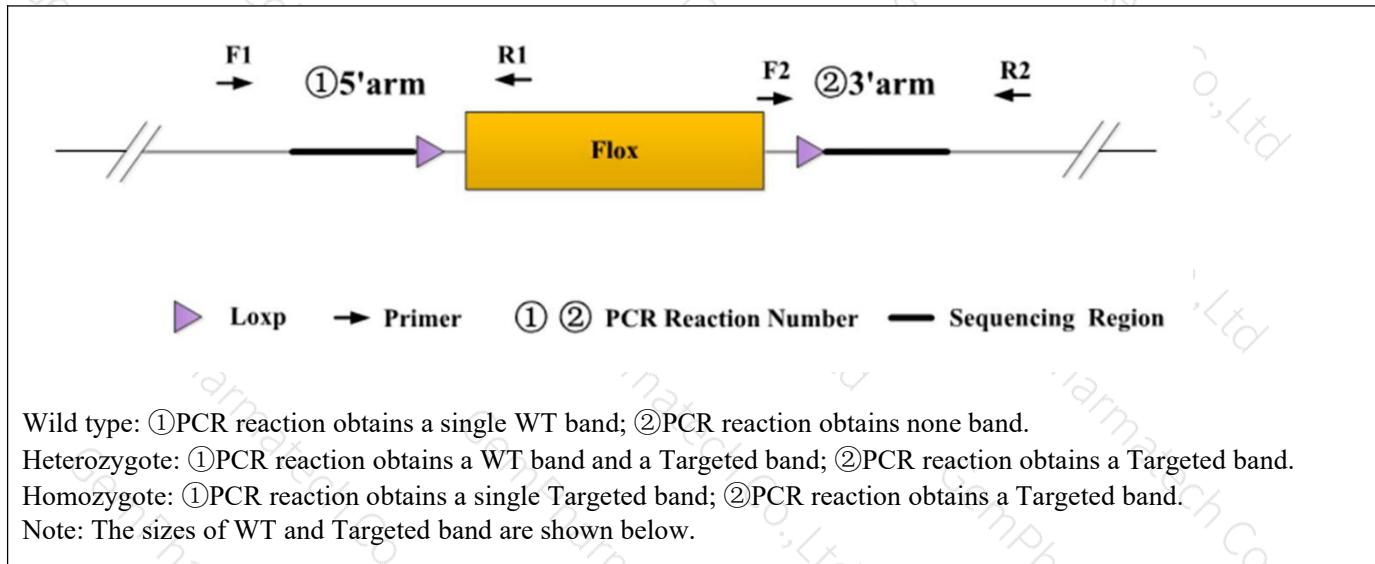




Genotyping Report

Strain ID	T019286	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Yin Chen	Gene Name			<i>Mcam</i>

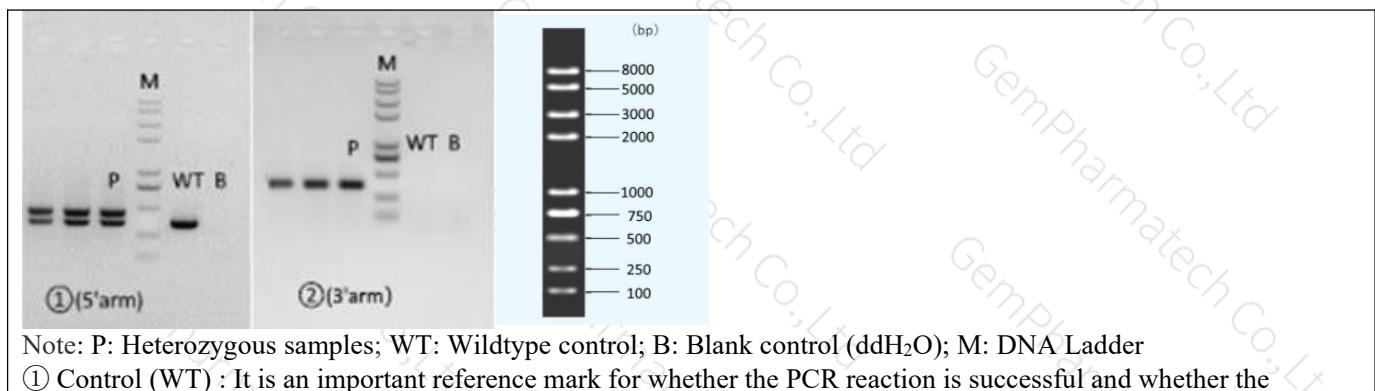
1. Strategy of Genotyping



2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	JS09580-Mcam-5wt-tF1	TGTAAAGAGAGCACAGCTCCTTCTG	WT:296bp Targeted:398bp
	R1	JS09580-Mcam-5wt-tR1	CTAGTGTAGGGGGTTGAAAGTGTG	
②(3'arm)	F2	ZMK2F4	CATCGCATTGTCTGAGTAGGTG	WT:0bp Targeted:336bp
	R2	JS09580-Mcam-3wt-tR1	GCTTGGTATTACCTAGAAAGCACT	

3. Gel Image & Conclusion





product band position and size meet the theoretical requirements.

4. PCR Condition

(Generally recommend to use Vazyme P222; If the sequences contain special structures such as GC% $\geq 60\%$ or GC% $\leq 40\%$, recommend to use Vazyme P515.)

PCR Reaction Component			
Seg.	reaction component	Volume (μ l)	
1	2 × Rapid Taq Master Mix(Vazyme P222) or 2 × Phanta Max Master Mix (Vazyme P515)	12.5	
2	ddH ₂ O	9.5	
3	Primer A(10pmol/ μ l)	1	
4	Primer B(10pmol/ μ l)	1	
5	Template(20~80ng/ μ l)	1	

PCR program I priority selection

Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98°C	30s	20×
3	65°C * (-0.5°C/cycle)	30s	
4	72°C	45s*	
5	98°C	30s	15×
6	55°C *	30s	
7	72°C	45s*	
8	72°C	5min	
9	10°C	hold	

PCR program II the second choice

Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98°C	30s	35×
3	58°C *	30s	
4	72°C	45s*	
5	72°C	5min	
6	10°C	hold	

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