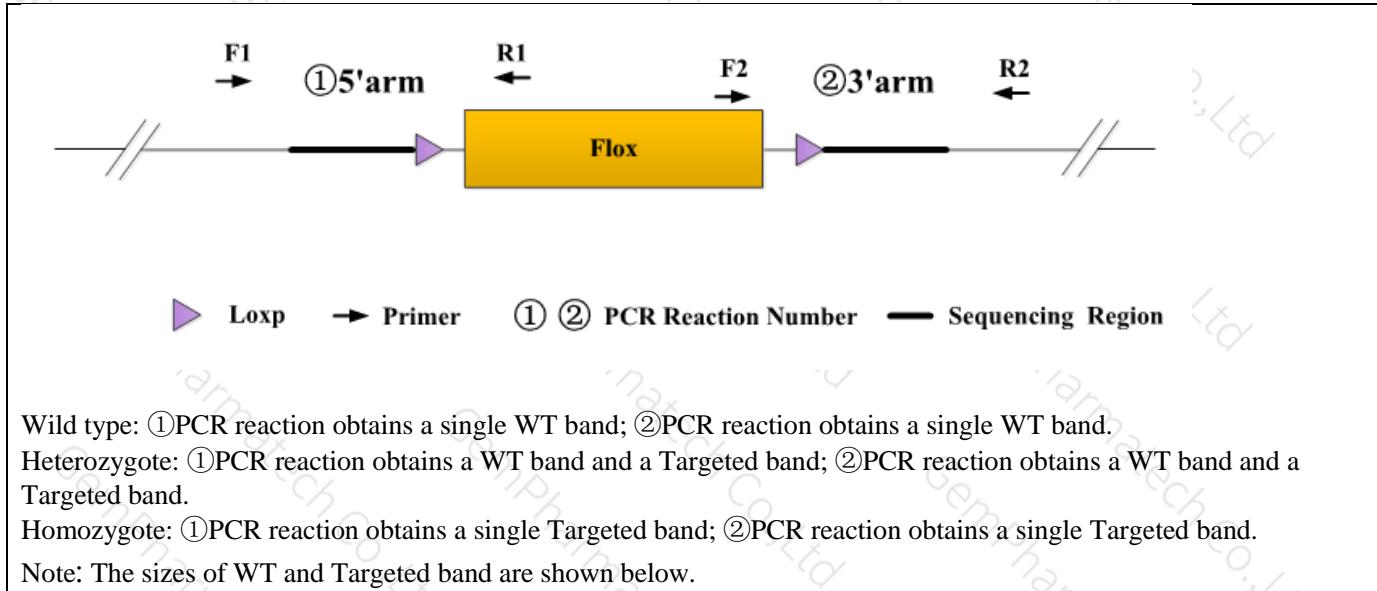




Genotyping Report

Strain ID	T052160	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name			<i>Ctsd</i>

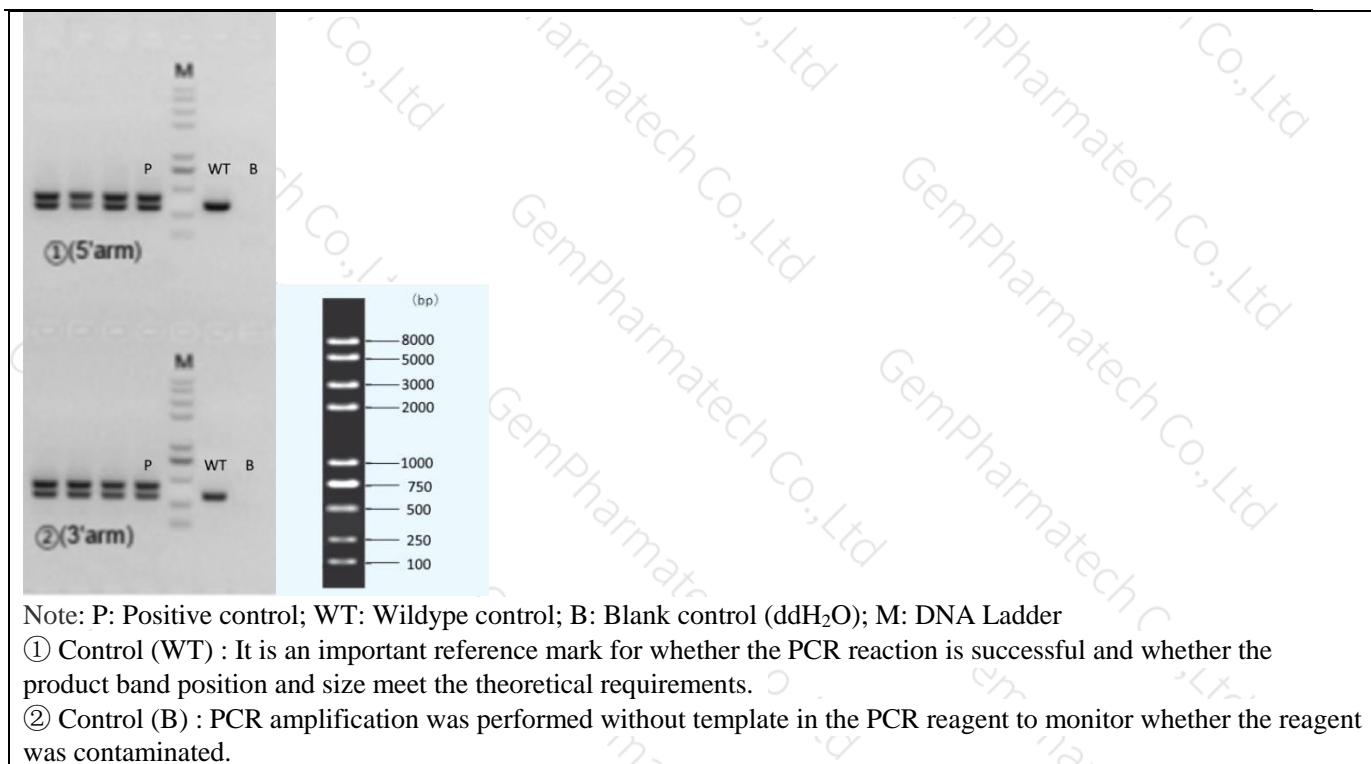
1. Strategy of Genotyping



2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T052160-F1	TGAAGCCTCTGGATGGTTAG	WT:315bp Targeted:396bp
	T052160-R1	TCTTGCTCTGTCTGCCTACC	
②(3'arm)	T052160-F2	TGGGTTAGGGTGGCATTG	WT:333bp Targeted:411bp
	T052160-R2	AGAGGGAGGCACCAAGCAA	

3. Gel Image & Conclusion



4. PCR Condition

PCR Reaction Component			
Seg.	reaction component	Volume (μl)	
1	2 × Rapid Taq Master Mix (Vazyme P222)	12.5	
2	ddH ₂ O	9.5	
3	Primer A(10pmol/μl)	1	
4	Primer B(10pmol/μl)	1	
5	Template(≈100ng/μl)	1	

PCR program ① 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	20×
6	55°C*	30s	
7	72°C	45s*	
8	72°C	5min	
9	10°C	hold	



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PCR program ② the second choice

Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98°C	30s	35x
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.