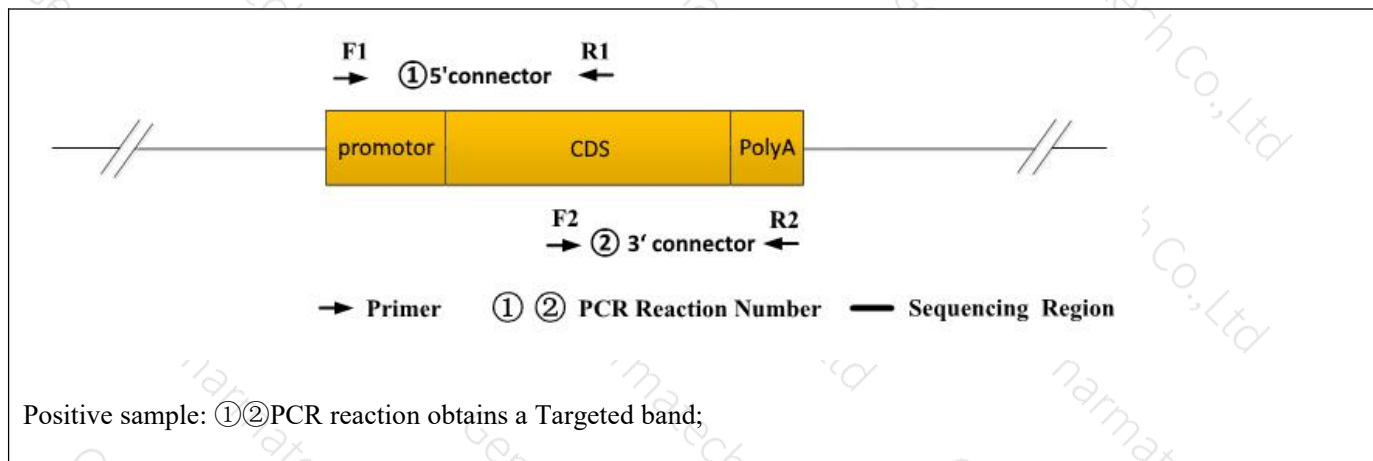


Genotyping Report

Strain ID	T057549	Strain Type	TG	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	CAG-RRVT		

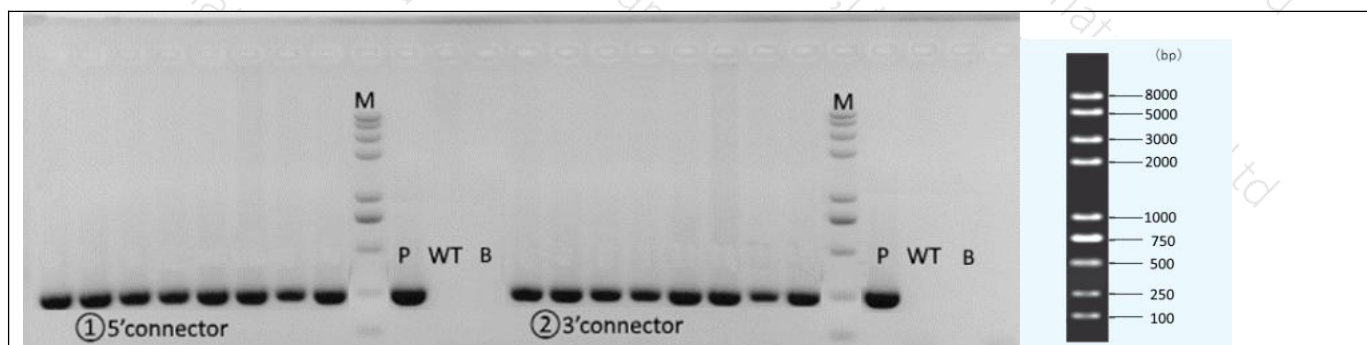
1. Strategy of Genotyping



2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①5'connector	F1	CAG-tF1A	TTCGGCTTCTGGCGTGTGA	WT:0bp Targeted:207bp
	R1	T057549-RRVT-TG-5tR1	AACTCATGTCCATTCATGGAGCC	
②3'connector	F2	T057549-RRVT-TG-3tF1	AGTCACAACGAGGACTATACGGTGG	WT:0bp Targeted:212bp
	R2	BGH-pA-tR1	TTAGGAAAGGACAGTGGGAGTGG	

3. Gel Image & Conclusion



Note: P:Positive samples; WT: Wildtype 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

(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 $\times$ Rapid Taq Master Mix(Vazyme P222) or 2 $\times$ 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 $^{\circ}$ C	5min	20 $\times$
2	98 $^{\circ}$ C	30s	
3	65 $^{\circ}$ C* (-0.5 $^{\circ}$ C/cycle)	30s	
4	72 $^{\circ}$ C	45s*	15 $\times$
5	98 $^{\circ}$ C	30s	
6	55 $^{\circ}$ C*	30s	
7	72 $^{\circ}$ C	45s*	
8	72 $^{\circ}$ C	5min	
9	10 $^{\circ}$ C	hold	

PCR program II the second choice

Seg.	Temp.	Time	Cycle
1	95 $^{\circ}$ C	5min	35 $\times$
2	98 $^{\circ}$ C	30s	
3	58 $^{\circ}$ C*	30s	
4	72 $^{\circ}$ C	45s*	
5	72 $^{\circ}$ C	5min	
6	10 $^{\circ}$ C	hold	

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