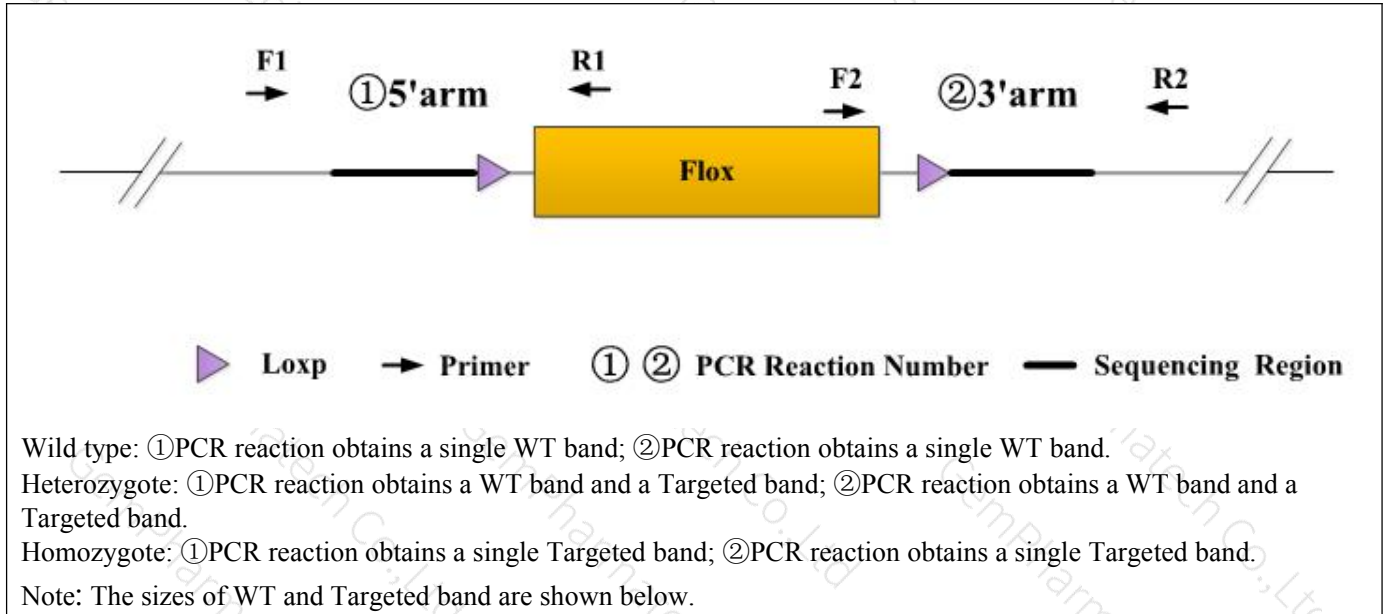


Genotyping Report

Strain ID	T063277	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Yuting Liu	Gene Name	Top2b		

1. Strategy of Genotyping



2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	T063277(P1)-F1	GATCCATAGTTGTTGACAGAGAACAG	WT: 337bp Targeted: 442bp
	R1	T063277(P1)-R1	CAGGCATTCAAAGTAAACCTGA	
②(3'arm)	F2	T063277(P1)-F2	TGCGTAGAATTTGGCTCTTTCCA	WT: 524bp Targeted: 630bp
	R2	T063277(P1)-R2	CTCTGCTGCATTTTAGCAGACCAA	

3. Gel Image & Conclusion

--



Note: P: Heterozygous 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	
2	98 $^{\circ}$ C	30s	20 \times
3	65 $^{\circ}$ C* (-0.5 $^{\circ}$ C/cycle)	30s	
4	72 $^{\circ}$ C	45s*	
5	98 $^{\circ}$ C	30s	15 \times
6	55 $^{\circ}$ C*	30s	
7	72 $^{\circ}$ C	45s*	

8	72℃	5min	
9	10℃	hold	
PCR program II the second choice			
Seg.	Temp.	Time	Cycle
1	95℃	5min	
2	98℃	30s	35×
3	58℃*	30s	
4	72℃	45s*	
5	72℃	5min	
6	10℃	hold	

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