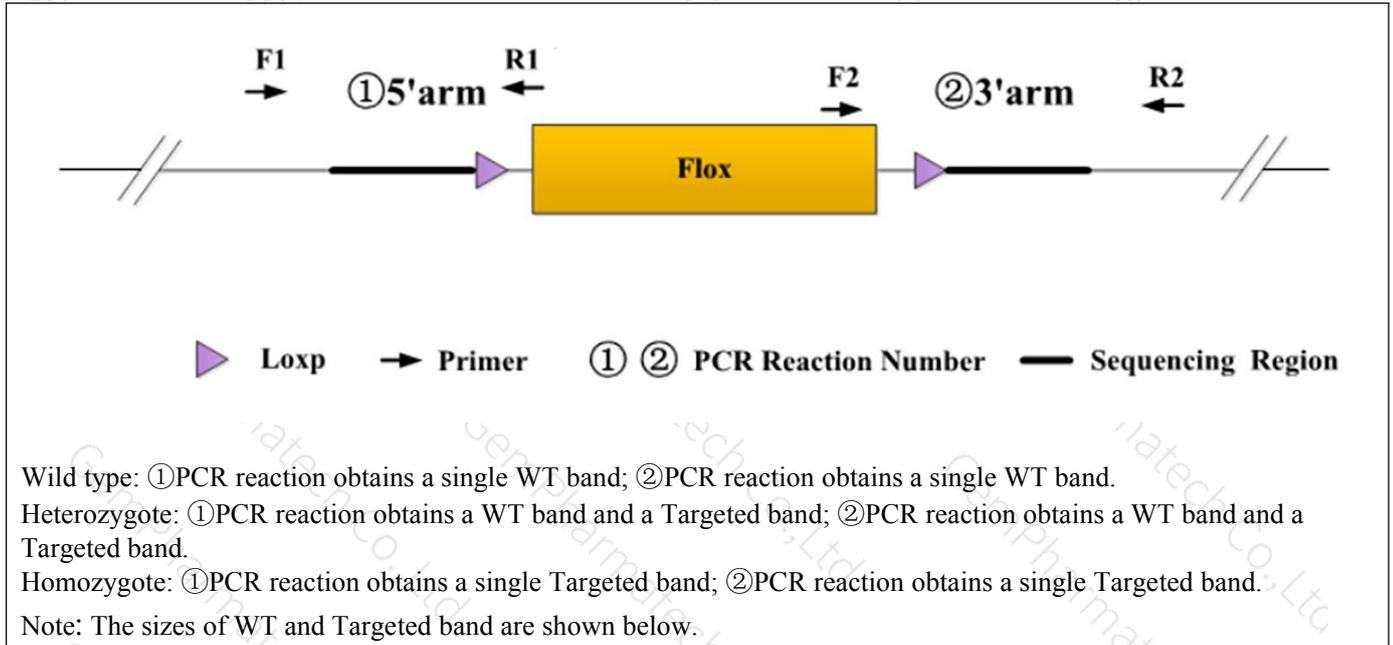


Genotyping Report

Strain ID	T052133	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	<i>Adra1b</i>		

1. Strategy of Genotyping

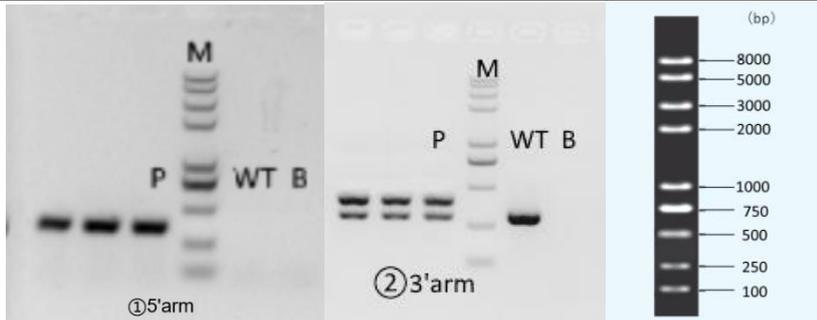


2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	T052133-F1	GAAGTTGCACATCTCTCTGAACCCA	WT: 0bp Targeted: 386bp
	R1	T052133-R1	CCAACTGACCTTGCGCAAGAACAT	
②(3'arm)	F2	T052133-F2	GCTCCTACAGAGAAAGGCAGTGTTC	WT: 295bp Targeted: 401bp
	R2	T052133-R2	CGCTGAAGGTGAGGGTCAGCTATAAT	

3. Gel Image & Conclusion

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Note: P: Positive control; 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

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	
6	55 °C*	30s	20×
7	72 °C	45s*	
8	72 °C	5min	
9	10 °C	hold	
PCR program ② the second choice			
Seg.	Temp.	Time	Cycle
1	95 °C	5min	
2	98 °C	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.