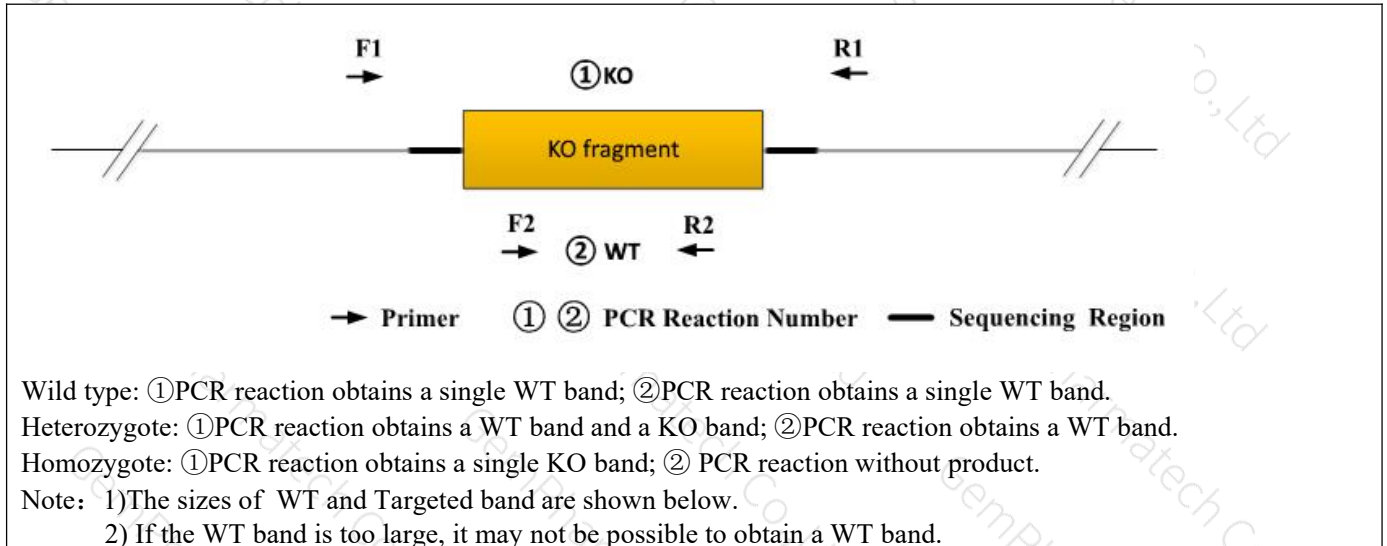


## Genotyping Report

Strain ID	T016749	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	<i>Osbp</i>		

### 1. Strategy of Genotyping

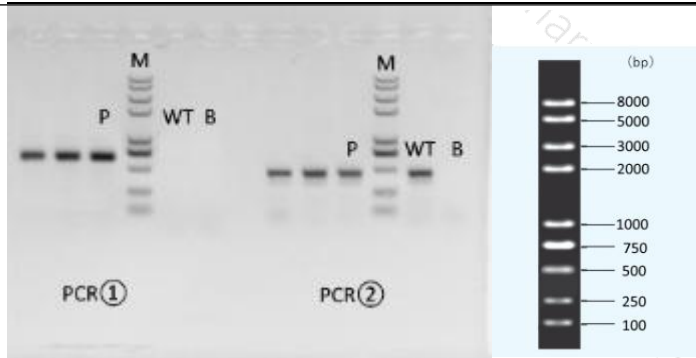


### 2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
PCR① GC:28.2%	F1	GJS02202211117 28-04-Osbp-KO-tF1	CAGTTCCCATTTGGGCTGATTTAC	WT: 1179bp KO:623 bp
	R1	GJS02202211117 28-04-Osbp-KO-tR1	GGATAGGGTTACAGGCCATCCAA	
PCR②	F2	GJS02202211117 28-04-Osbp-WT-tF1	TGTCTTGTATGGCAGGTCCAAG	WT: 377bp KO:0bp
	R2	GJS02202211117 28-04-Osbp-WT-tR1	GGACTGAACTCAGTTCACAATCACTACT C	

### 3. Gel Image

tgtattttaaaagctaataagtaagaggaa---556bp---agtagtgattgtgaactgagttcagtcctg



Note: P: Heterozygous samples; WT: Wildtype control; B: Blank control (ddH<sub>2</sub>O); 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 <sub>2</sub> O		9.5
3	Primer A(10pmol/μl)		1
4	Primer B(10pmol/μl)		1
5	Template(20~80ng/μl)		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℃	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.