

Genotyping Report

Strain ID	T016884	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	Gatad2a		

1. Strategy of Genotyping



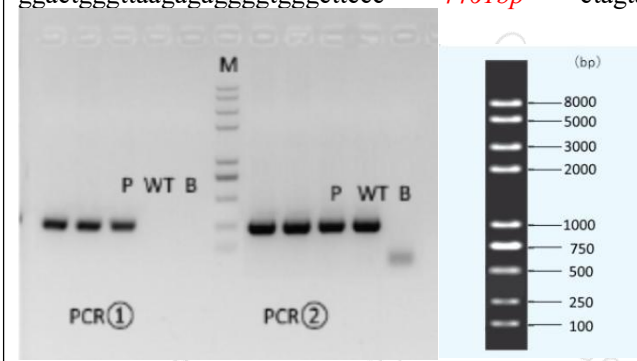
Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.
Heterozygote: ①PCR reaction obtains a WT band and a KO band; ②PCR reaction obtains a WT band.
Homozygote: ①PCR reaction obtains a single KO band; ② PCR reaction without product.
Note: 1)The sizes of WT and Targeted band are shown below.
2)If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
PCR①	F1	JS05587-Gatad2a-5wt-tF1	AGGTAGGACAATGCAGCAGATGG	WT:4721bp KO:260bp
	R1	JS05587-Gatad2a-3wt-tR1	GGTTACTAACATCATTCCACAGAGTGGG	
PCR②	F2	JS15587-Gatad2a-wt-F1	AGGCAGTGTATGGCGTTAGGGA	WT:204bp KO:0bp
	R2	JS15587-Gatad2a-wt-R1	GAAGTGAGGTCTTGCCAGCAGG	

3. Gel Image

ggactgggttaagagaggggtggccttccc-----4461bp-----ctagtagcaccctagagtgcgtgggccca



Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH₂O); M: DNA Ladder

4. PCR Condition

PCR Reaction Component			
Seg.	reaction component		Volume (μl)
1	2 × Taq Master Mix , Dye Plus, (Vazyme P112-03)		12.5
2	ddH2O		9.5
3	Primer A(10pmol/μl)		1
4	Primer B(10pmol/μl)		1
5	Template(≈100ng/μl)		1
PCR program			
Seg.	Temp.	Time	Cycle
1	95°C	5min	20×
2	98°C	30s	
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	

Reviewer:Ting Sun

Date:2020-7-1