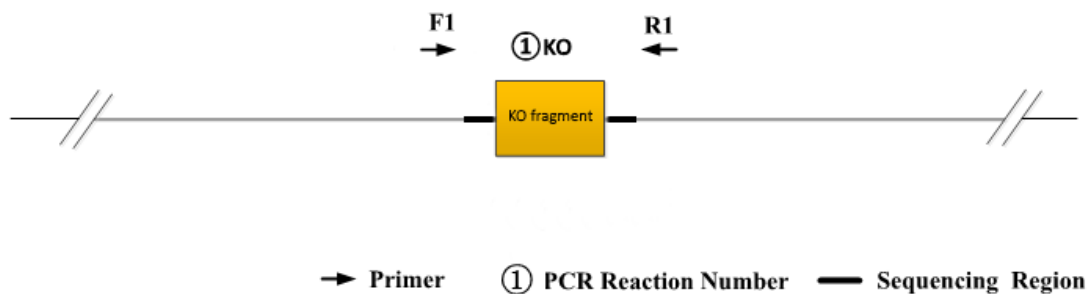


Genotyping Report

Strain ID	T001554	Strain Type	KO(Cas9)	Genetic Background	NOD/ShiLtJGpt
Designer	Zifan Lin	Gene Name	<i>Il2rg</i>		

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band.

Heterozygote: ①PCR reaction obtains a WT band and a KO band.

Homozygote: ①PCR reaction obtains a single KO band.

Note: 1)The sizes of WT and Targeted band are shown below.

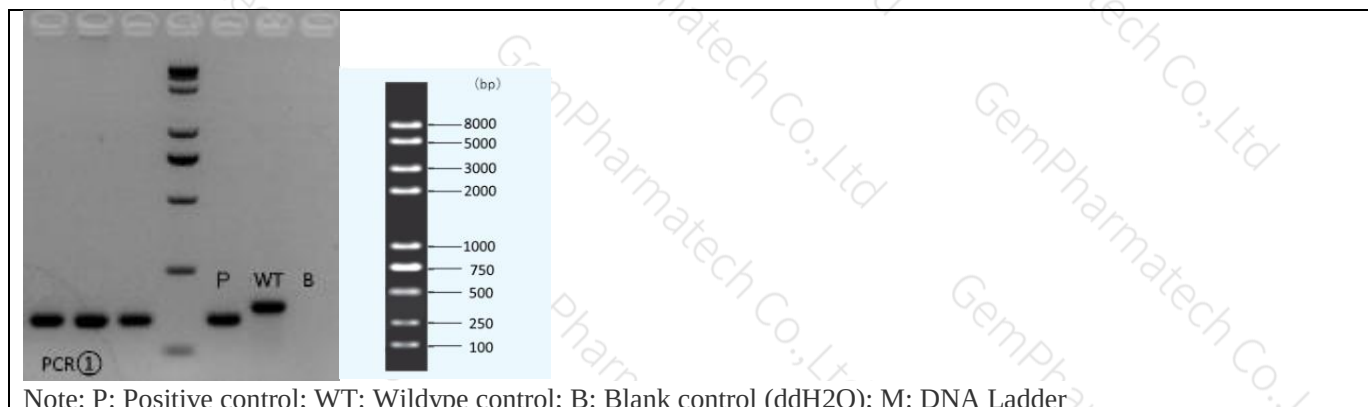
2)If the KO fragment $\leq 20\text{bp}$, the genotype should be confirmed by Sequencing.

Sequence: gatatccagctctaccagac-----ccccagaaacccagagg -22bp

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
PCR①	T001554-F1	TACATTCCAGGAGTGCAGTCAC	WT:172bp KO: 150bp
	T001554-R1	CCGATTACCAAGATTCTGTAGG	

3. Gel Image



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℃	5min	20×
2	98℃	30s	
3	65℃ (-0.5℃/cycle)	30s	
4	72℃	45s	
5	98℃	30s	20×
6	55℃	30s	
7	72℃	45s	
8	72℃	5min	
9	10℃	hold	