

RMRC Genotyping Protocol-PCR

No.	RMRC13224	Strain Name	B6.129-Stk31tm1Hly
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A. Primer

	Primer name	Sequence
1	STK31 KO mice-1F	TGGAAGTCATGTAGAAGATGCAG
2	STK31 KO mice-1R	AAGGGTGTGAGGTGGCTATG

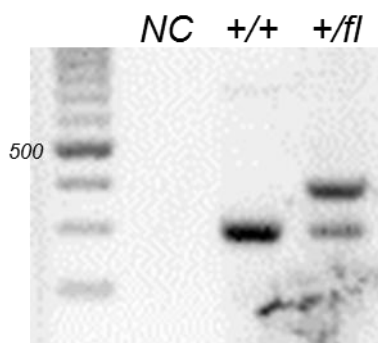
B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--			μl	1	95	300	1
PCR buffer	10x		2	μl	2	95	30	35
dNTP	2.5	mM	1	μl	3	61	30	35
Primer 1	10	μM(ρmol/μl)	1	μl	4	72	45	35
Primer 2	10	μM(ρmol/μl)	1	μl	5	72	600	1
DNA	--			μl	6	4	-	-
Taq		U/μl	1	μl	7			
Mg ²⁺		mM		μl	8			
Total			20	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	STK31 KO mice-1F	STK31 KO mice-1R	~300 bp	intron of STK31 genomic DNA
2	STK31 KO mice-1F	STK31 KO mice-1R	~400 bp	intron of STK31 genomic DNA + loxP

D. Gel Photo



STK31^{fl/+}

