

RMRC Genotyping Protocol-PCR

No.	RMRC13260	Strain Name	NOD.Cg-Tg(Ifng-THY1, Il4-Thy1)Sytwu
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A. Primer

	Primer name	Sequence
1	Tg1	GCT GTC TCA TCG TCA GAG AGC
2	Tg2	TCA AGG ACA GGA GAT CTT AGG G
3	Tg3	CCA AGA TAT CAG AGT TTC CAA GG
4	Tg4	AGA GGC TAC TTC CCG GGA TG

B. Reaction Conditions

Component	Concentration	Volume	Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--	μl	1	95	180	1
PCR buffer	10x	μl	2	95	30	33
dNTP	mM	μl	3	54	30	
Primer 1	μM(μmol/μl)	μl	4	72	90	
Primer 2	μM(μmol/μl)	μl	5	72	600	1
DNA	--	μl	6			
Taq	U/μl	μl	7			
Mg ²⁺	mM	μl	8			
Total		μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	Tg1	Tg2	600 bp	mIFN γ /hThy1
2	Tg3	Tg4	600 bp	mIL-4/mThy1.1

D. Gel Photo

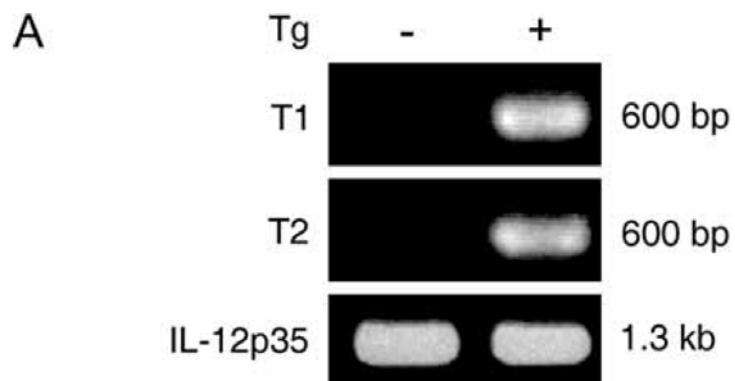


Fig. 1

J Autoimmun. 25:181-92 (2005).