

RMRC Genotyping Protocol-PCR

No.	RMRC13290	Strain Name	C57BL/6-Tg(I15ra*)1NSL
	RMRC13291		C57BL/6-Tg(I15ra*)6NSL

A. Primer

	Primer name	Sequence
1	Exon6R	5'-GAGGGCCTCTTGAATCGTTATG-3'
2	Exon6F	5'-CCGTCCTGGGCAAGAATGGAAAT-3'

B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--		14.25	μl	1	95	10	1
PCR buffer	10x		2	μl	2	95	30	27
dNTP	2.5	mM	1.6	μl	3	55	30	
Primer 1	10	μM(μmol/μl)	0.8	μl	4	72	30	
Primer 2	10	μM(μmol/μl)	0.8	μl	5	72	7	1
DNA	--		0.5	μl	6	4		
Taq		U/μl	0.05	μl	7			
Mg ²⁺		mM		μl	8			
Total			20	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	Exon6R	Exon6F	300 bp (Tg)	Exon 6 of IL-15Ra
2	Exon6R	Exon6F	257 bp (WT)	Exon 6 of IL-15Ra

D. Gel Photo

