

Genotyping of Trp53 Heterozygous/Homozygous Mouse Model (*Trp53^{+/-LSL-R172H}*)

Reagents

Taq DNA Polymerase w/ Standard Buffer, NEB, Catalog number: M0273L
Deoxynucleotide (dNTP) Solution Mix, NEB, Catalog number: N0447S

Primers

IPC Forward – CAA ATG TTG CTT GTC TGG TG
IPC Reverse – GTC AGT CGA GTG CAC AGT TT
Trp53 1loxp Forward – AGC CTG CCT AGC TTC CTC AGG
Trp53 1loxp Reverse – CTT GGA GAC ATA GCC ACA CTG

Reagents	Volume
NEB polymerase buffer (10X)	2 μ L
Taq Polymerase	0.1 μ L
10 mM dNTP	0.4 μ L
IPC-Forward (10 μ M)	0.4 μ L
IPC-Reverse (10 μ M)	0.4 μ L
<i>Trp53</i> 1loxp Forward (10 μ M)	0.4 μ L
<i>Trp53</i> 1loxp Reverse (10 μ M)	0.4 μ L
Template DNA	~1 μ L
DI Water	Up to 20 μ L
Total	20 μL

PCR Conditions

94°C 3 min
94°C 30sec/ 60°C 30sec/ 72°C 30sec (40 cycles)
72°C 3min/ 4°C ∞

Gel Electrophoresis (2% Agarose)

Internal Positive Control ~200 bp
LSL-Trp53 ~270bp

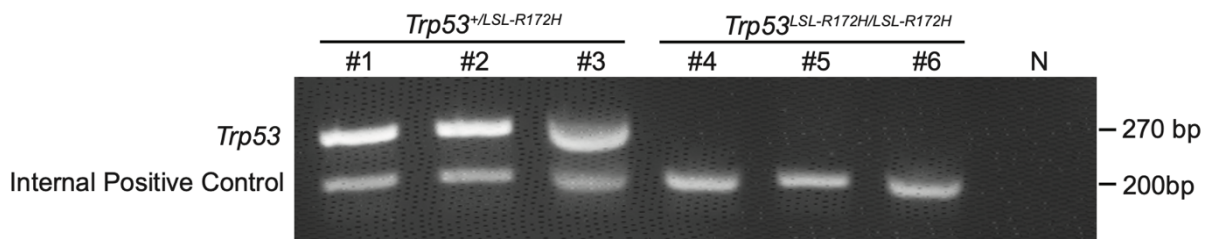


Figure 1. Example of Expected Genotyping Results

**** Note.** This PCR does not distinguish wild-type from *Trp53^{+/-LSL-R172H}*.