

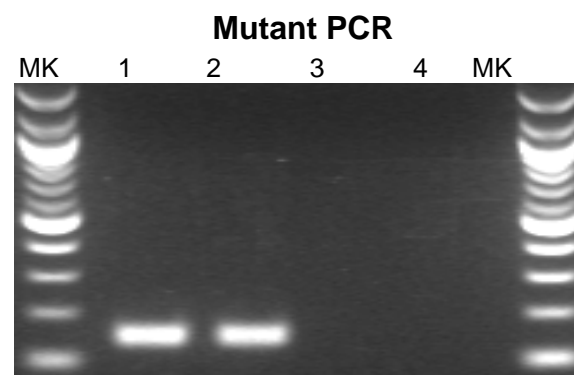
NIH-0824 Genotyping Strategies

Reaction Components	Vol (ul)
5X GoTaq Buffer	10
25mM MgCl ₂	3.5
10mM dNTPs	1
Primer 20 uM	1
Primer 20 uM	1
5 U/ul Taq polymerase	0.5
Water	28
Total mix volume	45
Tail lysate (1:20 dilution)	5
Total reaction volume	50

Step	Temp	Time	Note
1	94C	15"	
2	65C	30"	Decrease 1C/cycle
3	72C	40"	Go to 1, 10 cycles
4	94C	15"	
5	55C	30"	
6	72C	40"	Go to 4, 30 cycles

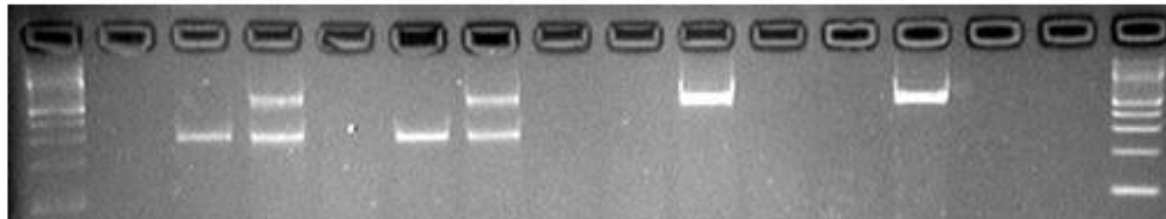
Primer Sequences (5' to 3')	
Mutant PCR: Primer 0824-5' and Primer LTR-rev, 162 bp	
Recommended Wt PCR: Primer 0824-5' and Primer 0824-3', 147 bp	
Primer LTR-rev	ATAAACCCCTCTTGCGATTGCATC
Primer 0824-5'	GCTCAGAGTTTCCTCAGAGAAACG
Primer 0824-3'	TTCTCTGTCAGGCTCGGTTCTTCC

Well	Sample	Genotype
1	211	het
2	ES DNA	het
3	wt lysate	wt
4	water	no amp



QC Expression

RT	-	+	+	-	+	+	-	+	+	-	+	+	-	-
Actin Primers	-	-	+	-	-	+	-	-	+	-	-	+	-	+



← Actin
← Gene Specific

M											M
Genotype	+/+		+/+		-/-		-/-		No		
Tissue	Kidney		Lung		Kidney		Lung		Template		

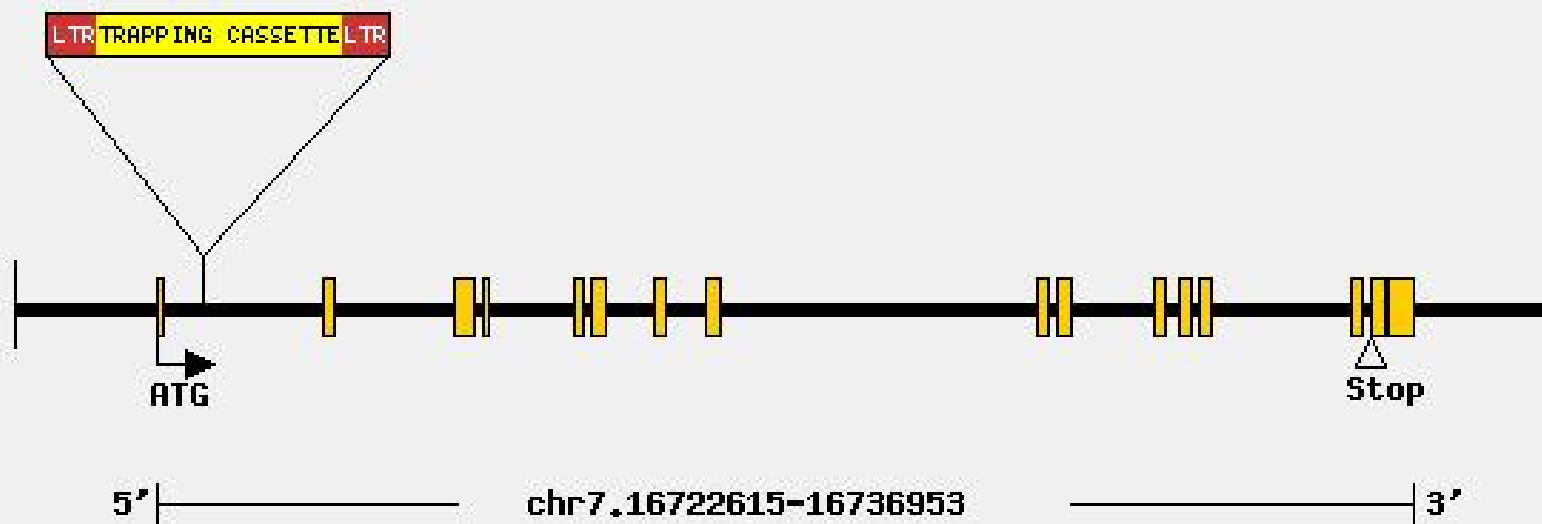
PCR 30 cycles

Mouse ID: 64

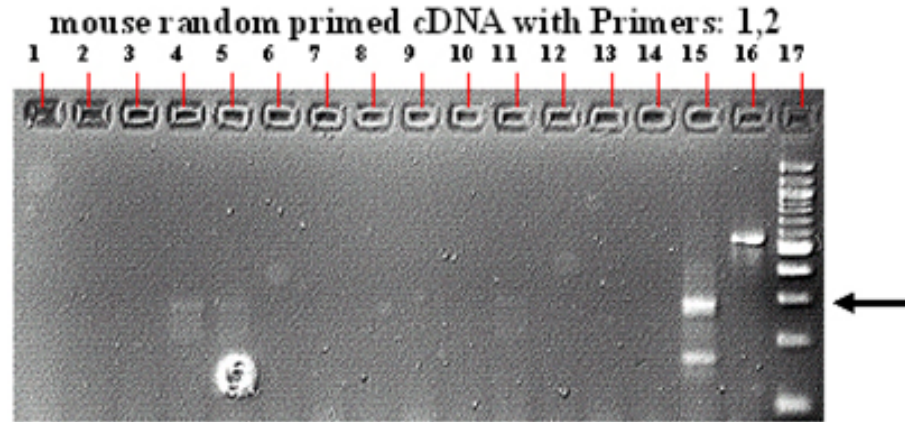
Primers: 1&2

QC Image

Accession: NH_020486



RT-PCR WT Expression

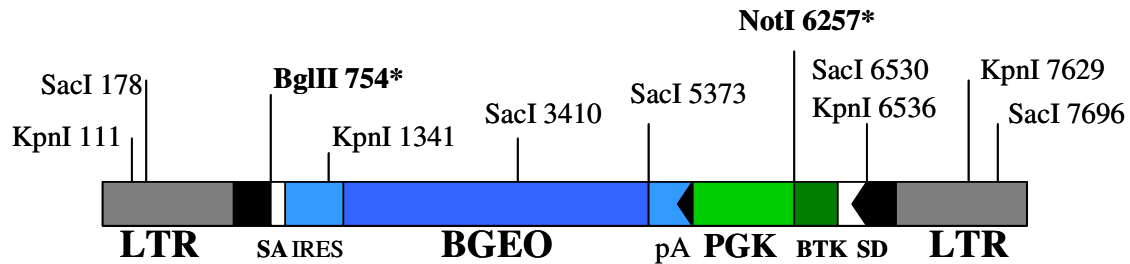


Note: Expected band size denoted by arrow adjacent to 100bp ladder/marker.

Mouse cDNA Tissues

- 1) Brain
- 2) Thymus
- 3) Spleen
- 4) Lung
- 5) Kidney
- 6) Liver
- 7) Testis
- 8) Bone
- 9) Small Intestine & Colon
- 10) Skin Fibroblast
- 11) Heart
- 12) Adipose
- 13) Tail
- 14) (-) Control
- 15) (+) Control- ES cell cDNA
- 16) (+) Control- Genomic/Lex1 DNA
- 17) 100 bp ladder/marker

VICTR 37 Omnibank Vector



Total Size: 8108 nucleotides

Non-Cutters: SacII, DraI, XhoI

* Unique sites

Location of components in VICTR 37:

LTR (viral long terminal repeat): 1-590, 7519-8108

SA (splice acceptor): 759-888

IRES: 885-1469

Bgeo: 1471-5365

pA: 5370-5655

frt sites: 5670-5717, 6546-6593

PGK promoter: 5738-6254

BTK exon: 6289-6514

>VICTR 37

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