

NIH-0975 Genotyping Strategies

Reaction Components	Vol (ul)
5x Phusion buffer	8
25mM MgCl ₂	3.2
10mM dNTPs	1
Primer 20 uM	1
Primer 20 uM	1
Phusion Enzyme	0.1
Water	20.7
Total mix volume	35
Tail lysate (1:20 dilution)	5
Total reaction volume	40

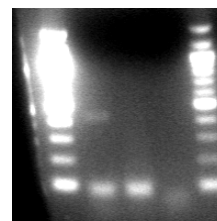
Step	Temp	Time	Note
1	96C	17"	
2	65C	15"	Decrease 1C/cycle
3	72C	15"	Go to 1, 6 cycles
4	96C	17"	
5	60C	15"	
6	72C	15"	Go to 4, 30 cycles

Primer Sequences (5' to 3')	
Mutant PCR: Primer LTR-2 and Primer 0975-3', 441 bp	
Recommended Wt PCR: Primer 0975-5' and Primer 0975-3', 439 bp	
Primer LTR-2	AAATGGCGTTACTTAAGCTAGCTTGC
Primer 0975-5'	TCTACATCATGCTGGATCAACAGG
Primer 0975-3'	TCTGCCTGCCTGATACCATGCTCCC

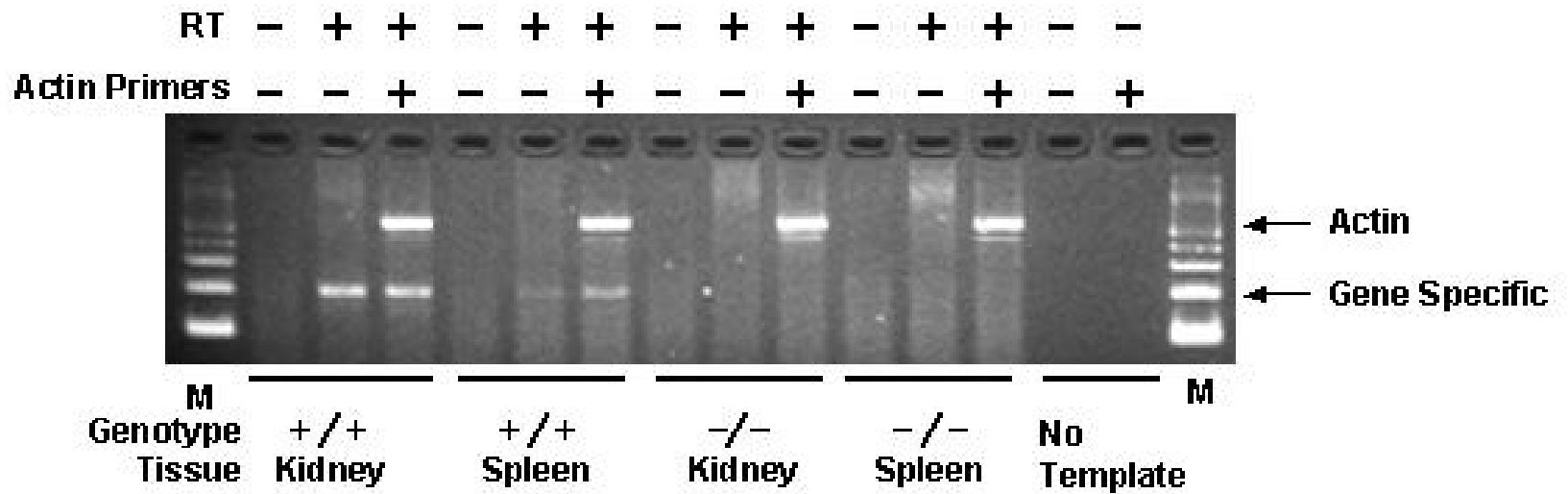
Well	Sample	Genotype
1	ES DNA	het
2	wt lysate	wt
3	water	no amp

Mutant PCR

MK 1 2 3 MK



QC Expression

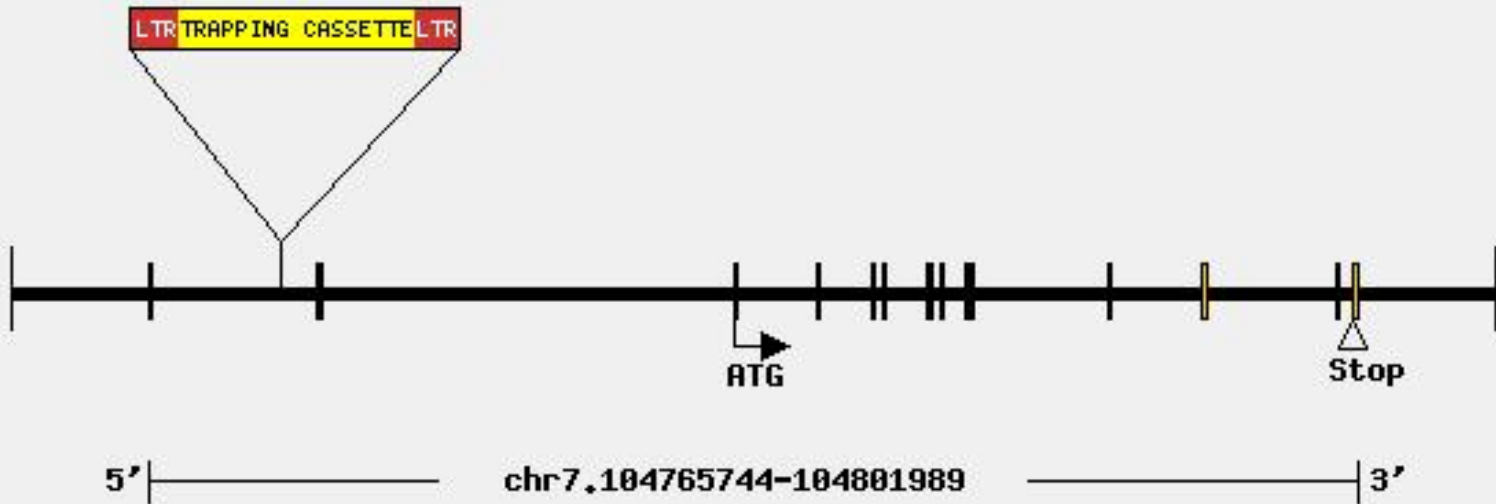


PCR 35 cycles
Primers: 1&4

Mouse ID 151

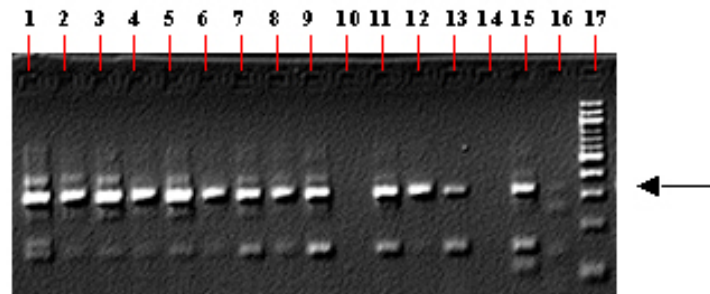
QC Image

Accession: NM_016773



RT-PCR WT Expression

mouse random primed cDNA with Primers: 1,2



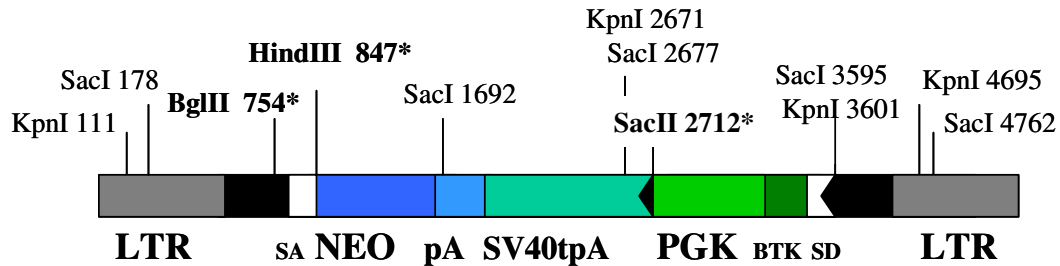
07/21/2004

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

Mouse cDNA Tissues

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

VICTR 48 Omnibank Vector



Total Size: 5174 nucleotides

Non-Cutters: ApaI, XhoI, XmnI

* Unique sites

Location of components in VICTR 48:

LTR (viral long terminal repeat): 1-590, 4585-5174

SA (splice acceptor): 755-847

NEO: 867-1684

pA: 1688-1874

pA (SV40 poly adenylation sequence): 1875-2691

frt sites: 2733-2780, 3613-3661

PGK promoter: 2805-3321

BTK exon: 3356-3580

>VICTR 48

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