

## NIH-0931 Genotyping Strategies

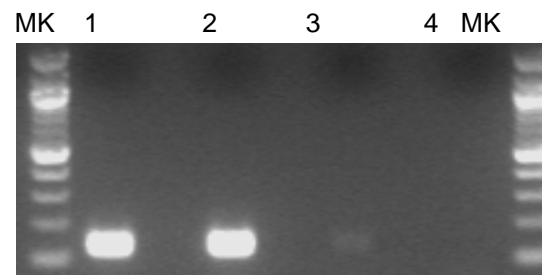
Reaction Components	Vol (ul)
5X GoTaq Buffer	10
25mM MgCl <sub>2</sub>	3.5
10mM dNTPs	1
Primer 20 uM	1
Primer 20 uM	1
5 U/ul Taq polymerase	0.5
Water	28
Total mix volume	45
Tail lysate (1:20 dilution)	5
Total reaction volume	50

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 LTR-2 and Primer 0931-3', 137 bp	
Recommended Wt PCR: Primer 0931-5' and Primer 0931-3', 229 bp	
Primer LTR-2	AAATGGCGTTACTTAAGCTAGCTTGC
Primer 0931-5'	GGAGTCTTTGGATATTGTAAGAGC
Primer 0931-3'	GAGCGTGCGCCTCACAAGTATGA

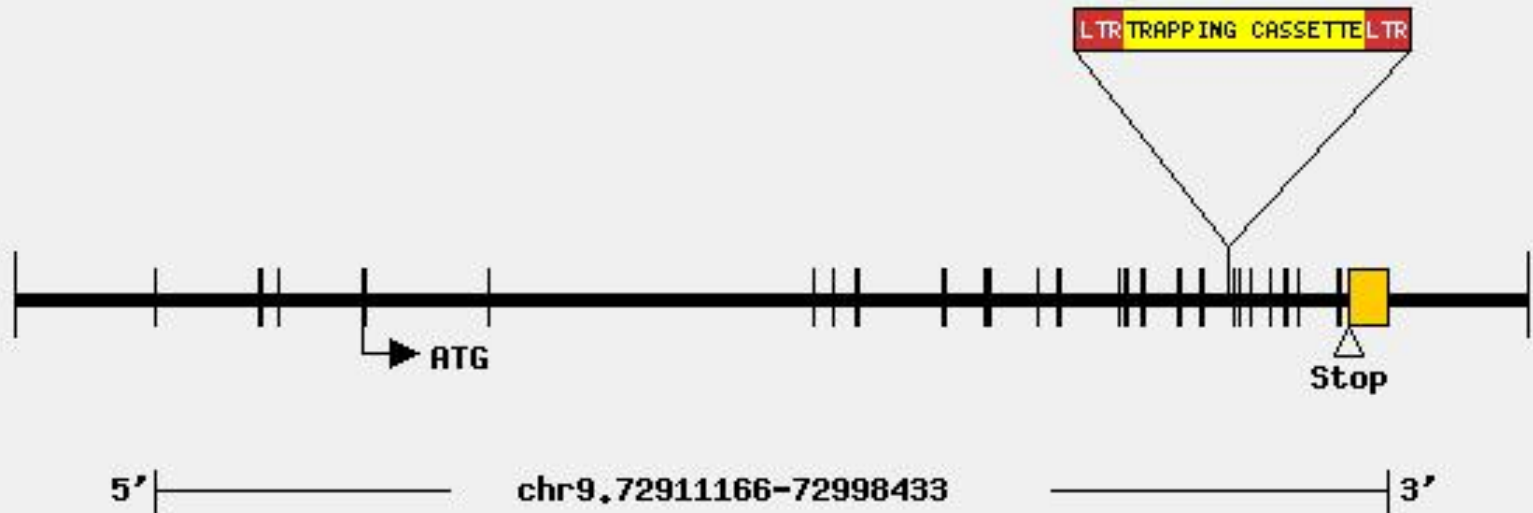
Well	Sample	Genotype
1	217	het
2	ES DNA	het
3	wt lysate	wt
4	water	no amp

### Mutant PCR

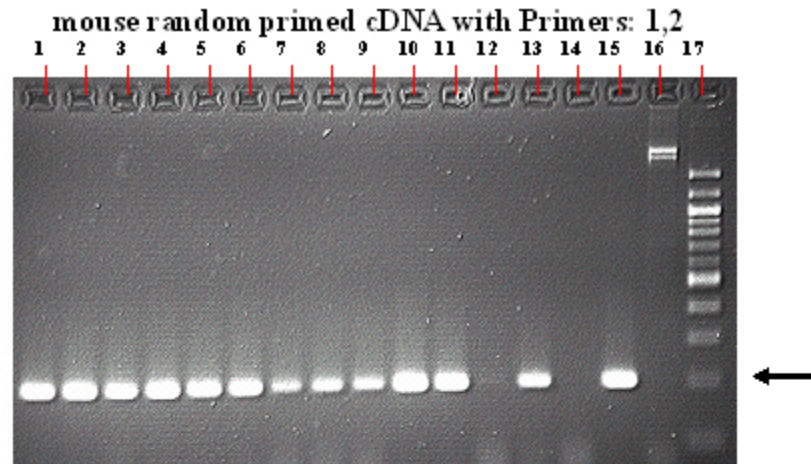


# QC Image

Accession: NM\_010890



# RT-PCR WT Expression

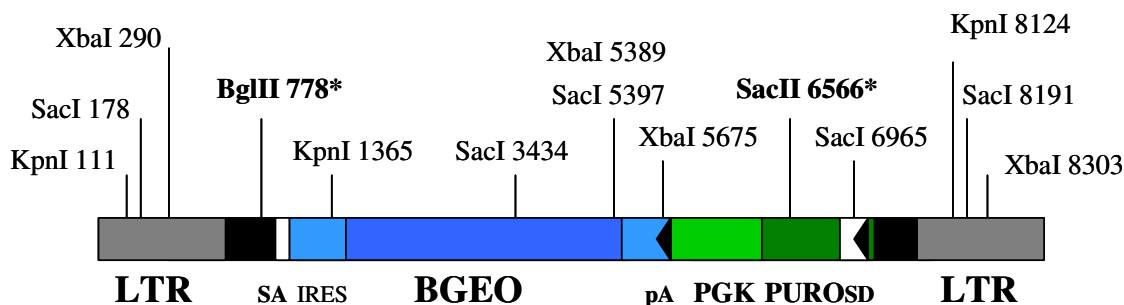


**Note:** Expected band size denoted by arrow adjacent to 100bp ladder/marker.

## 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) Blood
- 14) (-) Control
- 15) (+) Control- ES cell cDNA
- 16) (+) Control- Genomic/Lex1 DNA
- 17) 100 bp ladder/marker

## VICTR 23 Omnibank Vector



**Total Size:** 8603 nucleotides

**Non-Cutters:** NotI, NsiI, DraI

\* Unique sites

### Location of components in VICTR 23:

LTR (viral long terminal repeat): 1-590, 8014-8603

SA (splice acceptor): 783-912

IRES: 909-1493

Bgeo: 1495-5389

pA: 5394-5679

lox p sites: 5701-5776, 7019-7094

PGK promoter: 5785-6329

PURO SD: 6352-6998

### >VICTR 23

```
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