

Lexicon Contract Name: DNA174
LexVision Name: XAG2_1
Genentech ID: UNQ713



Mouse Accession(s): ENSMUST00000030296
Omnibank Clone: OST69558, VICTR 48

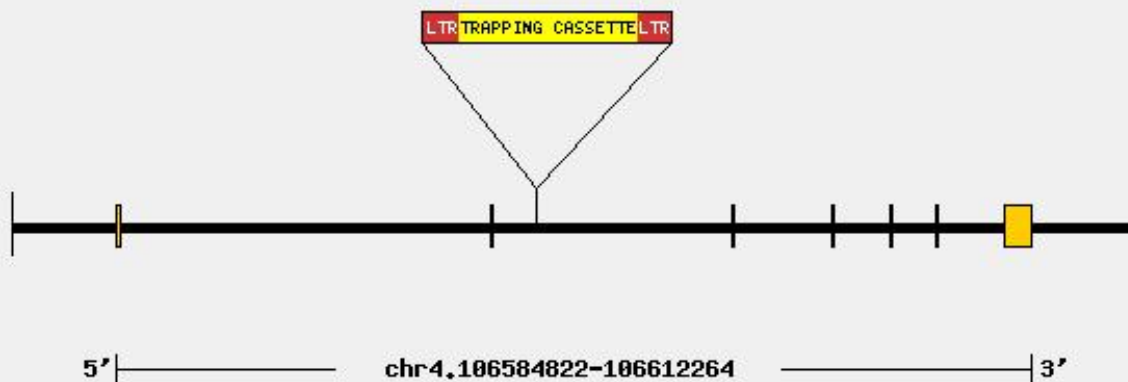
Mutation Description:

Listed below is a portion of the mouse genomic sequence ([from mouse chr.4](#)) surrounding the gene trap insertion site in the Omnibank mouse line XAG2_1 (OST69558). The sequence below includes 250 nucleotides of sequence on either side of the gene trap insertion site, which is denoted with an asterisk *****.

```
5'
TTTTAAAAATCTCAAATCAGATTTAATTGGAAAATCTTCATTGTATTTGGCGACTCTATCCACGATGGA
AATTTCAATTATTCTTTCAAGTTCAAATCAAGTTCGCTCCGAGGGTATAGTGCTGAGGCATAGAGCATT
CACAAGGTTCTAGCCCAGCAGCCCTCTCTACCAAACAAATAGAAACAAATTCAAGCATCAATCAAGTCTT
CAAGGAGGTTTCCGGGCAGCTTTTTCACTTCTGTTCTTCA*CACTAAAGTACAGCTACCCATAAAAGTGT
TTACTTTGCGTGGACACTTAATGCTTCCTGATACGAACCTTGATTTTTTTTCCCTTTTTTCCATATATAT
ATTGTTTTTTTGAACCTTGATTTTCCTAGGGGAACAGTTTTTATTTCATCTCTGACCCCAACCATGAAAGG
ATGTTGACGACTGAAATAGTTGTTATGAATAAACATTTACTAAGAGCTACTAGGTGTAAGAGAAGTCCTG
AATAGAGAAAC
3'
```

Mutation Illustration:

Accession: ENSMUST00000030296



DNA174 – XAG2_1 PCR to Confirm Genotypes

Reaction Components Vol (ul)

10X Sigma Buffer	5
25mM MgCl ₂	3.5
10mM dNTPs	1.5
LTR rev	0.75
XAG2_1 5' primer	0.75
5 U/ul Taq polymerase	0.4
Water	33.1
Total mix volume	45
Tail lysate (1:20 dilution)	5
Total reaction volume	50

Cycling Conditions: Touchdown

Step	Temp	Time	Note
1	94C	10'	
2	94C	15"	
3	65C	30"	Decrease 1C/cycle
4	72C	30"	Go to 2, 10 cycles
5	94C	15"	
6	55C	30"	
7	72C	30"	Go to 5, 30 cycles
8	72C	5'	

Primer sequences:

LTR rev	ATAAACCCTCTTGCAGTTGCATC
XAG2_1 5'	ATTGTATTTGGCGACTCTATCC
XAG2_1 3'	GAAGCATTAAGTGTCCACGCAAAG

Well	Sample	Genotype
1	140	hom
2	171	wt
3	175	inconclusive
4	176	hom
5	177	het
6	WT	inconclusive
7	Water	no amp

