

Lexicon Contract Name: DNA401
LexVision Name: ENZ672T1
Genentech ID: UNQ207



Mouse Accession(s): ENSMUST00000031251; NM_053262
Omnibank Clone: OST237628, VICTR48

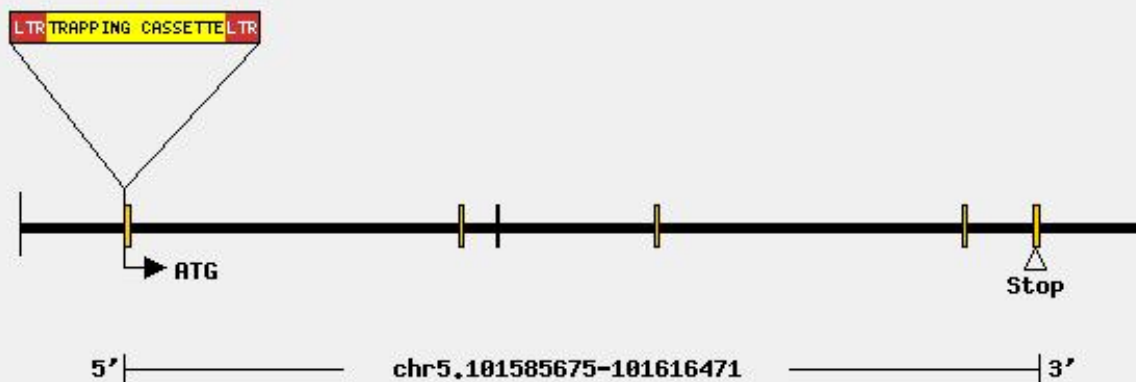
Mutation Description:

Listed below is a portion of the mouse genomic sequence ([from mouse chr.5](#)) surrounding the gene trap insertion site in the Omnibank mouse line ENZ672T1 (OST237628). The sequence below includes 250 nucleotides of sequence on either side of the gene trap insertion site, which is denoted with an asterisk *. Please note, this insertion occurs within the start codon (underlined) of exon 1 (shown in **bold text**).

5'
GCCCTAGGGCTTGCCCTCTGAACTTCGTCCCTCCCAGATTTCCAAGCCAGCGAGCAGTTGCTCTGACTGCA
GTCCGAGCCAATGGCAAAAACCTCCTGAAGCCCGGCCCGCGGAAGGAATGGTTTCCGAGTTGTTTGT
TCTCTTTAATAGGGGAACTCTGCCTTGCTTAAGCTTTTACTCTGTGCGTAACCGACACCCTCCAGAGGCC
GTTTAGGACCGGGAACGAGAGCACC**GGGCTCCAAAAGGA*****TGA**AGTATCTTCTTGACTTGATCCTGCTGC
TGCCTTTGCTCATCGTCTTCAGCATTGAGTCTCTTGTC AAGCTTTTATTCCCAAGAAGAAAAAATCTGTCG
CCGGAGAGATCGTCCTGATCACC GGAGCTGGTCATGGGATTGGAAGACTGACTGCCTACGAATTTGCCAA
ACTTAACACCAAACCTGGTTCTCTGGGATATCAATAAGGTAACCGCGCTTCGTCGCTGCCTTTTCTTT
GTGGTCCACAC 3'

Mutation Illustration:

Accession: NM_053262



DNA401 – ENZ672T1 PCR to Confirm Genotypes for F2 homs

Reaction Components	Vol (ul)
10X Sigma Buffer	5
25mM MgCl ₂	3.5
10mM dNTPs	1.75
LTR2 Primer	1.5
ENZ672T1 3' Primer	1.5
5 U/ul Taq polymerase	0.3
Water	31.45
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'	

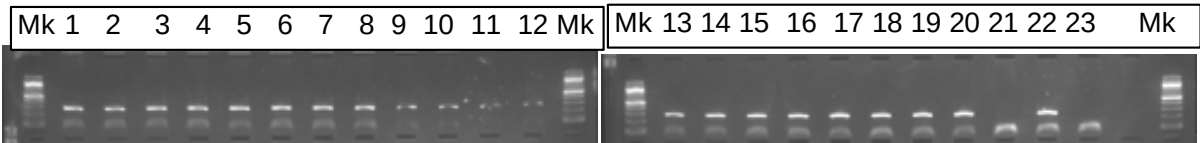
Primer sequences (5' to 3'):

LTR2	AAATGGCGTTACTTAAGCTAGCTTGC
ENZ672T1 3'	CGAAGCGCGGTTACCTTATTGATA

DNA401 – ENZ672T1 PCR to Confirm Genotypes for F2 homs

Well	Sample	Genotype
1	111	hom
2	114	hom
3	120	hom
4	121	hom
5	122	hom
6	127	hom
7	129	hom
8	131	hom
9	135	hom
10	138	hom
11	140	hom
12	157	hom
13	160	hom
14	163	hom
15	166	hom
16	167	hom
17	179	hom
18	180	het
19	182	hom
20	183	hom
21	wt lysate	wt
22	es DNA	het
23	water	no amp

Mutant band: 271 bp



Wt band: 275 bp

