

**Lexicon Contract Name: DNA141**  
**LexVision Name: ENZ226T2**  
**Genentech ID: UNQ212**



Mouse Accession(s): ENSMUST00000042281, NM\_145428  
Omnibank Clone: OST255410, VICTR 48

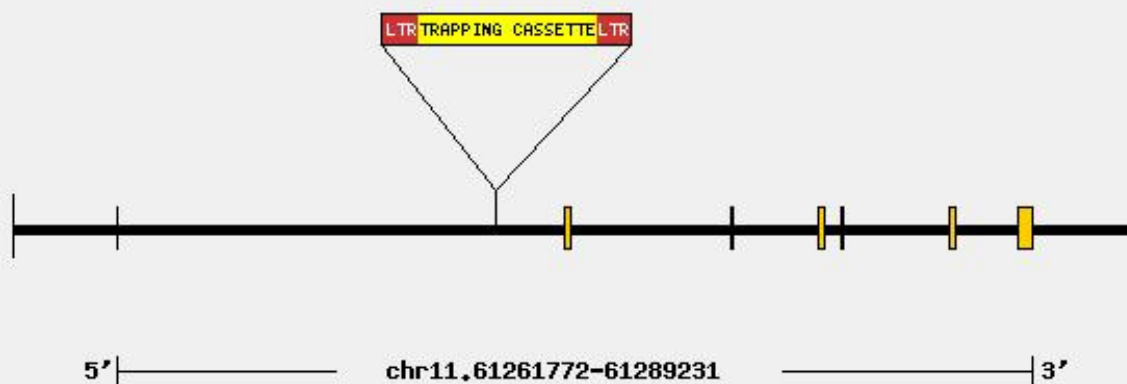
## Mutation Description:

Listed below is a portion of the mouse genomic sequence ([from mouse chr.11](#)) surrounding the gene trap insertion site in the ENZ226T2 Omnibank mouse line (OST255410). The sequence below includes 250 nucleotides of sequence on either side of the gene trap insertion site, which is denoted with an asterisk \*.

```
5'
ACCTCTCCTCTGCCCCCTAAGTGCTGGAATTAAAGGTGTGCACTACCACCACCCGCTTCCTTTGTTACTT
TTAGGAACAGAAGATTCCCCAGGCCTCTTCTTTTACCAGATGGAATTTGAGGTGGGTGGGGTCTTGGT
CTGAGGACCGCCCTCCCTTTCCCTAGAGCTGGCTTCCTGGATTTCCTCGCACCTCGTGGCTCCTACGCTC
CATTTGCTGGCGCTCTTTCTGTTACACTGCACACTTTAT*ATTGCCGCGCTTGCTCTGCTTTGTTGTA
AACTTGCATAAGGGTGGTACTAAGAACCACAGGACAAGACAAGATTGCCTGTAGATTTCTCCACTAATT
TTTAATTTAGCCTTAGGGGCAAATTCTCATTATTCTCCCTTTCTCTCTCCCTCTCTCCCCCAACC
CCCTCTTTCTGCTTTTGGTGTGTTTGGTTTCAAGACAGGGTTTCTCTGTGCAGCTCTGGTTGCTCTGGAA
CTCAACTACCT 3'
```

## Mutation Illustration:

Accession: NM\_145428



## DNA141 – ENZ226T2 PCR to Confirm Genotypes for F1 Hets

### Reaction Components Vol (ul)

|                             |     |
|-----------------------------|-----|
| 10X Sigma Buffer            | 5   |
| 25mM MgCl <sub>2</sub>      | 3.5 |
| 10mM dNTPs                  | 1   |
| LTR2 Primer                 | 1   |
| ENZ226T2 3' Primer          | 1   |
| 5 U/ul Taq polymerase       | 0.5 |
| Water                       | 33  |
| Total mix volume            | 45  |
| Tail lysate (1:20 dilution) | 5   |
| Total reaction volume       | 50  |

### Cycling Conditions:

| Step | Temp | Time | Note               |
|------|------|------|--------------------|
| 1    | 96C  | 17"  |                    |
| 2    | 65C  | 45"  |                    |
| 3    | 72C  | 40"  | Go to 1, 35 cycles |

### Primer sequences:

|             |                            |
|-------------|----------------------------|
| LTR2        | AAATGGCGTTACTTAAGCTAGCTTGC |
| ENZ226T2 3' | GTGATGTTTTGGCTGATAACCTGG   |

| Well | Sample    | Genotype |
|------|-----------|----------|
| 1    | 1         | het      |
| 2    | 6         | het      |
| 3    | 8         | het      |
| 4    | 12        | het      |
| 5    | 13        | het      |
| 6    | 16        | het      |
| 7    | 17        | het      |
| 8    | 18        | het      |
| 9    | 24        | het      |
| 10   | 35        | het      |
| 11   | 40        | het      |
| 12   | 41        | het      |
|      |           |          |
| 13   | 42        | het      |
| 14   | 43        | het      |
| 15   | ES DNA    | wt       |
| 16   | wt lysate | het      |
| 17   | water     | no amp   |

Mutant band: 350 bp

