

## Product datasheet for **MC201476**

### Trnt1 (NM\_027296) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trnt1 (NM_027296) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trnt1
Synonyms:	2410043H24Rik; 2610044E04Rik; 9830143O18Rik; AA408384; C76540; CGI-47; mt-Trat
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC031764 sequence for NM\_027296  
 GCGGCCCGGGCAGCAGGCGGATGTGTGATTGGCGACTTGTCTCCAGATGCAGAGCGTCTGTATCCTTGG  
 CACAGGCAGGTCCTGAGGTGTAGTTGGAGTAGATTGTGCCTTCTGAAGCGATACCTGTTTACAATGAAGT  
 TGCAGTCCCAGAAATCCAGTCCCTTTTACCAGAAAGGATTGAAGAGCCTGACAGAATTTTGCACAAAGA  
 GAATCATGAATTAAGAATAGCAGGAGGAGCAGTGAGGGATTTACTGAATGGGGTGAAGCCTCAAGATGTG  
 GATTTCCGCCACCACTGCCACCCCTACTCAGATGAAGGAGATGTTCCAGTCAGCTGGCATTCCGATGATCA  
 ACAACAAAGGAGAGAAAACATGGGACTATCACTGCCAGGCTTCATGAAGAAAATTTTGAAGTTACTACACT  
 CCGAATTGATGTTACCCTGATGGAAGACATGCAGAGGTAGAATTCACAACCTGACTGGCAGAAAGACGCT  
 GAACGAAGAGATCTCACTATAAAATTTCTATGTTTCTAGGTTTTGATGGTACTACTGTTTACTTTAATG  
 GTTATGCAGATTTAAAAAATAAAAAGGTTTCGATTTGTTGGACATGCAAAACAGAGAATTCAGGAAGATTA  
 TCTTCGAATTTTAAAGGATTTTTCAGGTTTTATGGCAGAATTGTCGACAGACCTGGTGACCATGACCATGAG  
 ACTCTAGAAGCAATTGCAGAAAATGCCAAAGGTTTGGCTGGAATATCAGGAGAGAGGATTTGGGTAGAAC  
 TGAAGAAAATTTACTGGTGACCATGTAACCATTTGATCCACCTGATCTATGATCTTGGTGTGGCTCC  
 TCACATAGGTTTACCTGCTAATGCAAAATTTAGAAGAATTTAACAAAGTCAGTAAAAATGTTGAAGGCTTT  
 TCACAAAACCAATGACTCTTTTGGCTTCTTTATTCAAAGTACAAGATGATGTCACAAAATTTGGACTTGA  
 GATTTGAAAATTTCAAAGAGGAGAAAAACCTGGGTTTATTATAGTTAAAAACAGGAAAGACTTGATTAA  
 AGCAACAGATAGTTTCAAGACATTGAAACCATACCAAGACTTTGTGATAGACTCTAGGGAACAGATGCA  
 ACTGCCCGTGTGTTGTGAGCTGCTGAAGTACCAAGGAGAGCATGGTCTTCTCAAAGAGATGCAGCAGTGGT  
 CTGTCCCCTGTTCCCTGTGAGTGGACATGACATCAGGAAAGTGGGTATTTCTTCAGGGAAGGAAATTTGG  
 GGCCCTGCTACAGCAGTTGCGTGAACAGTGAAGAAAAGTGGTTACCGGATGGAAAAAGATGAACTACTA  
 AGTTACATAAAGAAGACCTAAAGATGAGCCCTGTATGAAACAGGGGAAGTCTTGAAGTTCATCTAAAC  
 TAAATGAAGAGTCAACAAGAAAAGTAAACAGCTGTATTACCCGGAAACCAGCTGTGCACCTGTAGAAGGC  
 CGGCCTATCAGATTCAGGTTGGACGCTTTATACACAGTCAGTGTCTCATGTACATATCCATGAGGATTC  
 CATATGCTGCCATTGGACCACATAAGGATAAACTACAGACAAAGAAATAATGTGGAGAATAAGACATGA  
 AAAGAAAATAGTAATCCAGTTTTTTACTTATTTGGGACATAAGTTATGCTTTTTAACCTTTGAATTTT  
 AGATATATATAGTACTTTGTGTAATAATGTAAGACAAGTATACAGGAGGTTGGCAGATATTTCTGTTGCTT  
 AAAAATGTTCTTTGATGATTCAAAGGTAATATATGTGTTTACAAAGCCTAGTGAGGTCATGTTTTCATC  
 TTTGGACATTTAGTTACTTTACCTACATATCAGTTTCTGACCTTCTGATCTGTAGTTCTAATGAATTC  
 ATCAAAGTGTAAAGCTTACAGCATCAGCACATGTTTCCAGGACCCACCAATTTTGGTCCCCTGTAGCAG  
 AACTAGCTGAAGTATAATGCTTGAAGCATTCTATTATGCTTTAAGATAGGATGTGTCTAAACAAAAAT  
 GAGGGGAAAAAGACTGTATTACAGATGTTTCCAGGCTGTAAGACAGCTTGGCCTGTGTTTATCTCCTTTA  
 CTGAGATAAACGCATATTTTTAGGCACTGGAGAAAATATGGAAGTGGAAACCACAGAAGGGAATATGGA  
 AATATATTAATAAATGTAATAAAGATCTTTCCTAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_027296

**Insert Size:** 1305 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [BC031764](#), [AAH31764](#)

**RefSeq Size:** 2240 bp

**RefSeq ORF:** 1305 bp

**Locus ID:** 70047

**UniProt ID:** [Q8K1J6](#)

**Cytogenetics:** 6 E1

**Gene Summary:** Adds and repairs the conserved 3'-CCA sequence necessary for the attachment of amino acids to the 3' terminus of tRNA molecules, using CTP and ATP as substrates.  
[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 both encode the same isoform (a).