

Product datasheet for **MC226624**

Tomt (NM_001282088) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tomt (NM_001282088) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tomt
Synonyms: Comt2; F930017I19Rik
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC226624 representing NM_001282088
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCCCTGCCATTGCACTGGCATTCTGCCACTCGTGGTAACACTGCTGGTGAGATACCGGCACCATT
TCCGACTGCTGGTGCGTACAGTCTCTGAGAGGATTCGAGACTGCCTGTCAGGACTTCGGATTGAGGA
GCGGGCTTTCAGCTATGTGCTACCCATGCCCTGCCTGGAGACCCTGGTCACATCCTACCACGCTTGAC
CATTGGAGCAGCTGCTGCGAGTACCTGAGCCACATGGGCCTGTTAAAGGTCAGATTCTGATGCGGCTGG
TGAAGAGAAGGCCCTGCTTGTGTGCTGGAGCTGGGCACATACTGTGGATACTCTACACTGCTTATTGC
GCGAGCCTTGCCCTGGAAGTCGCCTTCTCACTGTGGAGCGGGACTCACGTACAGCAGCAGTGGCTGAA
AAAGTCATCCGGCTGGCAGGCTTCGATGAGCAAATGGTGGAGCTCATTGCAGGCAGCTCAGAGGAAGTGA
TCCCACGCCTAAGAGCTCAGCACCAGCTGAATCGTGCAGATCTGGTCTCCTGGCACACCCGACCTCGGTA
TACTTAAGGGATCTGCAGCTACTGGAGGCCATGCTCTGCTCCCACATGGCGCCACTGTATTGGCTGAC
CATGTGCTTTTCTGGTGCACCCCGCTTCCTACAGTACACCAAGAGCTGTGGTTCGCTATCGCTGCCGCC
TTCACCACACAGCCTCCAGACTTCCCTGCCATTAAGATGGCATAGCCCAACTCACCTATACTGGACC
CGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001282088
Insert Size: 777 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<ol style="list-style-type: none">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:	<u>NM_001282088.1</u> , <u>NP_001269017.1</u>
RefSeq Size:	1358 bp
RefSeq ORF:	777 bp
Locus ID:	791260
UniProt ID:	<u>A1Y9I9</u>
Cytogenetics:	7
Gene Summary:	<p>Catalyzes the O-methylation, and thereby the inactivation, of catecholamine neurotransmitters and catechol hormones (PubMed:18794526). Required for auditory function (PubMed:18794526, PubMed:28504928). Component of the cochlear hair cell's mechanotransduction (MET) machinery. Involved in the assembly of the asymmetric tip-link MET complex. Required for transportation of TMC1 and TMC2 proteins into the mechanically sensitive stereocilia of the hair cells. The function in MET is independent of the enzymatic activity (PubMed:28504928).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) has an alternate 5' UTR exon, compared to variant 1. Both variants 1 and 2 encode the same protein.</p>