

Product datasheet for **MC221974**

Tmtc2 (NM_177368) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmtc2 (NM_177368) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmtc2
Synonyms:	8430438D04Rik; D330034A10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221974 representing NM_177368
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTGCAGAGTTGGTGAGCAGCGCTCTGGGGCTCGCCTTGATCTCAACACCCTGAGTGTGATTCTTCT
 GCTACGATGACAGCCGTGCTATCAAGACTAATCAAGACCTCCTGCCAGAAACCCCTGGACACACATTTT
 CTAACAATGACTTTTGGGGGACTCTTCTAACCCACAGCGGTAGCCACAAGTCTACCGGCCACTCTGCACT
 CTCTCTTTTTCGACTGAATCATGCCATTGGAGGGCTGAATCCCTGGAGCTATCACCTTGCAATGTCTGT
 TGCATGCGGCTGTACCGGCCTCTTACACGCTTCTCCAAGGCCCTCCTTGGGGACGGATACTGGACCTT
 CATGGCTGGCTTGATGTTTGCTTACACCCCATCCACACGGAAGCGGTGGCGGCATCGTGGGACGAGCA
 GATGTGGGCGCTAGTCTCTTTTTCTCCTGTCCCTGCTGCTACATTAAGCACTGTTCTACAAGAGGCT
 ACTCTGCCAGAATTGGGGCTGGTTCTGGGGACTGGATTGTGCGCTGGATGCAGCATGCTTTGGAAAGA
 GCAAGGAGTGACTGTCTGGCAGTTTCAGCCGTTTATGACGTCTTTGTCTCCACAGGCTAAAAATGAAG
 CAGATCTGCCTACCATTTACAAAAGGAAGAATTGTCTCTTTTTCTCAGCATTAGCTTGTTAACATTCT
 GGGGGACCTGCCTTTTGGGTGCCCGGCTGTACTGGATGGGCAATAAACCCCAAGCTTCTCCAACCTCCGA
 CAACCCCGCGGCTGACTCGGACAGCCTTTTGGCTCGCAGGCTCACCTTCTGTATTTACCTACCAAGAAC
 CTCTGGCTATTGCTCTGCCCGGACACCCTGAGCTTTGATTGGTCCATGGATGCCGTGCCTCTTCTCAAAA
 CAGTTTGTGATTGGAGAAATCTACACACTGTGGCCTTCTATTCTGGACTTCTCCTCCTGGCTACTGTGG
 TTTGAAGAACCAAGTTTAGAAGGAGAGTGCAACGGGAAAGCCTTGACAAATGGCAAGCAGAATGCAAA
 GGCCATAGCTGCCACTCAGACGTGGAGTACCGGAACTCAGAAATGAAGCCAGCTTTGCATCCAAAGTAG
 AGAATGGAATTAATAATGTGTACCACAGAGAAGTCCCGTCCACGGGAGAATGTTATTCTGTCTGTC
 CTTATCTTTGTGATAAATACCTTTTATTCTGCCACGAACCTGTTTTTCTATGTCGGCTTTGTAATCGCA
 GAGCGAGTCTTATATATCCAGTATGGGCTTCTGCCTTCTGATCACAGTGGGTGCCAGAGCCCTGTATG
 TCAAAGTACAAAAGAGGTTTCTCAAGAGCTTGGTTTTTATGCTACTGCCACGTTAATTGTCTTCTACGG
 AGTCAAGACTGCGATCAGGAACGGAGACTGGCAGAACGAGGAGATGCTGTATAGATCAGGGATCAAAGTG
 AACCCAGCCAAAGCATGGGGTAACCTTGGAAATGTTCTGAAGAGTCAGAGTAAAACTCTGAAGCTGAAA
 GCGCCTACAGAAATGCTCTGTTCTACCGCAGCAACATGGCTGACATGCTGTATAATCTAGGGTTGCTGCT
 CCAAGAGAACAGCAGGTTTGCAGAAGCTTCTACTATTACAACTGGCCATTGGGAGCAGGCTACCTG
 GCTTCTGCCTATTTAAACACCGCATTATTCTCATGAACCAAGGGAAGACAGAAGAAGCCCGGGGACAT
 TCCTCAAGTGTTCTGAGATTCCAGATGAGAACCTGAAGGATCCTCATGCACATAAGAGTTCTGTTACCAG
 CTGTCTGTACAACCTCGGGAAACTCTATCACGAGCAAGGACGCTATGAGGAAGCCCTGAGTGTATATAGG
 GAAGCAATTCAGAAGATGCCAAGGCACTTTGCCCTCAGAGCCTGTACAACATGATGGGTGAAGCCTACA
 TGAGACTGAGTAAGCTTCTGAAGCTGAGCATTGGTACATGGAATCACTGAGATCCAAGACCGATCACAT
 CCCTGCTCATCTCACCTACGGGAAGCTGCTCGCCTAACAGGTCGTAAGAGTGAGGCTGAAAAGTTCTTC
 TTGAAGGCTATTGAGCTGGATCCTACCAAAGGAACTGTTACATGCACTATGGTCAGTTTCTCCTAGAAG
 AGTCTCGCCTCACAGAAGCAGCAGAGATGGCAAAGAAAGCAGCTGAGCTGGACAACACAGAGTTCGATGT
 CGTCTTCAATGCTGCCATATGCTCAGACAAGCAAGCCTCAATGAAGCCGCTGAGAAGTATTACGATCTG
 GCAGCAAGACTGAGACCTAATTACCCTGCTGCTCATGAACCTAGGGGCCATTCTGCATCTCAATGGGC
 GACTGCAGAAGGCTGAGGCCAATCTGAGGGCCCTGCAACTCAAGCCAGATGATGTCATCACTCAGTC
 TAATCTCCGAAGCTGTGGAACATCATGGAAAAGCAAGGTTTGAAGACCTCCAAGAC**TGA**

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_177368
Insert Size: 2511 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:	<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:	NM_177368.4 , NP_796342.2
RefSeq Size:	5701 bp
RefSeq ORF:	2511 bp
Locus ID:	278279
UniProt ID:	Q56A06
Cytogenetics:	10 D1
Gene Summary:	Transfers mannosyl residues to the hydroxyl group of serine or threonine residues. The 4 members of the TMTC family are O-mannosyl-transferases dedicated primarily to the cadherin superfamily, each member seems to have a distinct role in decorating the cadherin domains with O-linked mannose glycans at specific regions. Also acts as O-mannosyl-transferase on other proteins such as PDIA3.[UniProtKB/Swiss-Prot Function]