

Product datasheet for **MC222668**

Tmtc3 (NM_001110013) Mouse Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tmtc3 (NM_001110013) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Tmtc3 |
| Synonyms: | 9130014E20Rik; B130008E12Rik; mSmile |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF:

>MC222668 representing NM_001110013
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTTGAAGGGAAGATGGCTGATATTAACCTCAAAGAAGTGACTTTAATAGTCAGCGTGGTTGCCGCCT
 GCTACTGGAACAGCCTGTTCTGTGGTTTTGTTTTGATGATGTTTCAGCAATATTGGATAATAAAGACCT
 GCATCCATCTACACCTTTAAAACTTTATTTTCAGAATGACTTCTGGGAACTCCTATGTCTGAGGAGAGA
 AGCCACAAGTCATACAGGCCCTAACGGTGTGACATTTTCGCTTAAATTATCTCCTCAGTGAGCTGAAAC
 CCATGTCTTACCACCTCCTGAACACAGTGTCCACGCTGTCGTCAGCGTGATCTTCTTAAAGGTCTGCAG
 ACTCTTTCTGGATAAGAGGAGCAGCATGATTGCGGCTCTGCTCTTCGAGTGCACCAATCCATACCGAG
 GCAGTCACAGGTGTGTAGGAAGAGCGGAACCTTATCATCTGTCTTTTCTAGCTGCCTTTCTCTCGT
 ATACTAAGTCAAAGGACCAGATAATCCATAGTGTGGACCCGATTGTATTAACCGTGTTTTTAGTGGC
 TGTTGCAACATTGTGAAGGAACAAGGAATAACGGTTGTCGGAATTTGTTGTGTATATGAAGATTTGTG
 GCCAAGGGTACACCTTGCCGATGTTATGCACCGTTGCCGGGAGTTTCTGCGCGGGAAGGGCAGCATTC
 CGTTATCTATGCTGCAGACACTGGTGAAGCTCATTGTCCTGATGCTCAGTACCTGCTACTCGTTGTGGT
 CAGAGTCCAAGTTATTCAGTCACAACTTCCAGTGTTCACAGGTTTGATAATCCAGCTGCTGAAGCCCA
 ACCCCGACACGACAGCTGACTTTAACTATCTCCTTCTGTGAATGCCTGGCTTCTGCTGAATCCTTCGG
 AGCTCTGCTGTGATTGGACCATGGGACAATACCACTGATAGAATCATTCTAGATGTTCCGAAATCTCGC
 CACTTTTGCTTTCTTTGCTTTCTGGGGCTTTGGGAATTCAGTCTCAGATACCCTGGTGACTCCTCA
 AAGACTGTCCTAATGGCGCTTTGTTTAAATGGCGTTACCATTTATCCCGCATCAAACCTGTTCTTTCTG
 TTGGATTTGTGGTTGCTGAGCGAGTACTATATGTTCTAGCATGGGTTCTGTATTTTAGTACCCCATGG
 ATGGCAAAAAATTTCAAACAAAAGTGTGCTGAAAAAGCTCTCGTGGGTTGTCTGTCCATGGTGATACTA
 ACCCATGCCTTGAAAACCTTTCATAGAAATGGGACTGGGAGTCAGAATATACATTGTTTATGTCAGCCC
 TAAAGGTGAATAAAAAAATGCCAAATTAAGAAATGTGGTCATGCTCTGGAGAATGAGAAGAAGT
 TGAGAAAGCTTTGAAATACTTCTGACAGCTACCCATGTTTCAGCCAGATGACATCGGTGCCACATGAAT
 GTAGGAAGAAGTATAAAAACTTAAACAGAAGTGAAGAGCTGAAGCGTCTTACATGCTGGCTAAATCAC
 TGATGCCTCAGATTATCCCTGGTAAAAATATGCAGCCAGAATGGCCCTAATCACCTAACGTTTATAT
 CAATCTGGCCAACCTTATTCGAGCAAATGAGTCCCGCTGGAGGAAGCGGACCAGCTGTACCGACAGGCC
 ATCAGCATGAGGCCAGACTTCAAACAGGCTTACATTAGCAGGGGAGAGTTGCTTTAAAAATGAATAAGC
 CTCTCAAAGCAAAGGAAGCATATCTTAAAGCACTAGAGCTGGACAGAAATATGCAGATCTCTGGTACAA
 CTTGGCAATTGTTTATATTGAACCTAAAGAACCAATGAAGCTCTGAAGAAGTAAATCGAGCTTTGGAA
 CTGAACCCATAACATAAGCTAGCACTGTTCAATTCGCTATTTTAAATGCAGGAATCAGGTGAAGTAAAC
 TCAGACCTGAAGCTAGAAAACGGCTTCTAAATTAATGTAATGAAGAGCCACAGGATGCTAATGGCTATTT
 CAATTTGGGGATGCTCGCCATGGATGACAAAAGGATTCAGAAGCTGAGTCTTGGATGAAGAAAGCTATC
 AAATTACAACCTGACTTCAGAAGCGCTTTGTTTAACTGGCCTCCTGTATTCGACAGCTGCTAAGGAGT
 TAAAGGCATTGCCAATTTAGAAAGAGCTGCTTAAATACTATCCTGACCATACCAAGGTCTCATTTTAAA
 AGGAGACATTCTGATGAACCAAAAAGAGGATACCTGGAGCTAAAAAGTGTTTTGAAGAAGATCCTGGAA
 ATGGATCCAAGCAATGTGCAGGGGAAGCACAACCTGTGTGTGTACTTTGAAGAGAAGGAGTTACTAA
 AAGCTGAGAGGTGCTTGTGAAACATTGGCATTAGCACCTCATGAGGAGTATATTCAACGCCATTTGAG
 TATAGTCAGGGATAGAATCTCCTCTTCTGGTATTGTGGAGCAGCCACTGGCCCCAGCTGATAAGACTCCA
 GGTACAGAGGAGAGAGAGGAAATCCCTTCTGAGGATGTAAGAAATCAGCAGTGAATCCAGACCACCAC
 AAATCTTAAAAACAACAATAACAGAACTCTAAATCCAACAAGCAATCAACAGAAAATGCAGACCAAGA
 TGCCCCCATAAAAACAACAAAAGACATCAAAGAAATTGAGAAGAAAAGAGTTGCTGCTTTGAAAAGGCTA
 GAAGAGATTGAACGTATTTTAAATGGAGAA**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

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|-------------------------------|---|
| ACCN: | NM_001110013 |
| Insert Size: | 2763 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: | <u>NM_001110013.1</u> , <u>NP_001103483.1</u> |
| RefSeq Size: | 5990 bp |
| RefSeq ORF: | 2763 bp |
| Locus ID: | 237500 |
| UniProt ID: | <u>Q8BRH0</u> |
| Cytogenetics: | 10 D1 |
| Gene Summary: | <p>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. Involved in the positive regulation of proteasomal protein degradation in the endoplasmic reticulum (ER), and the control of ER stress response.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript from the same strain was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.</p> |