

Product datasheet for **MC221239**

Tmtc4 (NM_028651) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmtc4 (NM_028651) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmtc4
Synonyms:	4930403J22Rik; 5730419O14Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC221239 representing NM_028651
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTTGAGCTGGATGCTGACTTGGATCACATTGTCCATCCGTCCTTCCCCTTTCTGGGCTAAGTTAG
 TAGTGGGATTTGTTCCCTTCTGTGTTTGAAGGAGCTATGATGGCGATTTGTCTTTGATGACTCTGA
 AGCTATTGTTAAACAATAAGGACCTCCAGTCAGACACGCCCTTGGGGACCTGTGGCACCATGACTTCTGG
 GGCAGTAAATTGAGCAGTAACACCAGCCACAAGTCTACCGGCCACTTACTGTCCTGACTTTCAGGATTA
 ACTACTACCTGTCCGAGGCTTTCACCCCGTGGGTTTCCATGTGGTCAACATCCTCCTGCATGGCAGCAT
 CTCATCCTCATGCTGGATGTCTTCTCAGTACTGTTTGGTGGCCTACAGTACACCGGTAAGGCCAGAGG
 GTACACCTGGCCCCAGGGCTTCCCTGTGGCCACGTTGCTGTTTGTGTCCATCCAGTGCACACTGAGT
 GTGTTGCTGGTGTGTTGGCCGTGCAGACCTCCTGTGTGCCCTGTTCTTCTTGTGTCTTCCCTGGCTA
 CTGTCAAGCATTTAAAGAAACAGGTAACAAGGAGGGAACACATTCTCCACCTTCTGGGTATTGCTGAGT
 ATCTTTCTGGGAGCTGTGGCCATGCTGTGCAAAGAGCAAGGAATCACTGTGCTGGCTTGAATGCTGTGT
 TCGATATCCTGGTGATAGGCAAACCTCGACATTCTGGCAGCTGTCCGGAAGTCTACATAAGGACAAGTC
 ACAAGAGAATGCAGGCATGTTCAAGAAATGGAGGCCCTCTTTCCGAATAGCCCTACTTACCATTGGAGGC
 ACCAGCATGCTTTATACGCTGAAAAATCATGGGAACAGGCCACCGGCATTTACTGAGGTGGACAACC
 CAGCATCCTTTGCTGACAGCATGTTGGTTAGGGCCATAAACTATAATTACTACTATTCAATGAATGCCTG
 GCTGCTGTGTCCCTGGTGGCTGTGTTTATTGGTCAATGGGCTGCATCCCCCTCATTAAAGTCAGTT
 GGTGACTGGAGGGTAATTGCTCTAGCGGCATTTGGCTCTGCCTAATTGGCCTAATTTCCAAGCCCTGT
 GCTCTGAGGATAGCTGCAAGAGAAGAATCCTTACTCTGGGTTTGGGATTTCTTGTGATCCCCTTTCTCC
 TGCAAGCAACTTGTTTTTCCGAGTGGGCTTTGTGGTCCGAGAACGTGTCCTCTACCTTCCAGCGCTGGG
 TACTGCGTGCTGTGACCTTTGGATTTGGAGCTCTGAGCAGACACACTAAGAAAAAGAACTGTTGCCG
 CCATCATCCTGGGCATCCTTCTCATCAATGCACTGAGATGTGTGATACGCAGTGGTGGTGGCGGAGTGA
 AGAGCAGCTCTTTGCAAGCGCCCTGTCTGTGTGCCCTCAATGCTAAGGTTCACTACAACATTGGCAAA
 AACCTGGCTGATCAAGGCAACCAACAGCGCCATCAAATATTACCGGAAGCAGTCAGACTAAATCCCA
 AGTACGTTTCATGCCATGAATAACCTCGGAATATCTTAAAGAAAGGAATGAGCTACAGGAAGCTGAAGA
 GCTGCTGTGTTGGCTGTCCAAATACAGCCAGACTTTCAGCCGCATGGATGAATTTGGCATAGTTCAG
 AACAGCCTGAAACGGTTTGAAGGAGCAGAGCAGAGCTACCGGACAGCGATTAACACAGGAGGAAATACC
 CAGACTGCTACTACAACCTCGGGCGGCTGTATGCAGATCTAAATCGCCAGTGGATGCATTGAACGCTTG
 GAGAAATGCCACCGTACTGAAGCCGGAGCACAGCCTGGCGTGGAACAACATGATCATACTTCTGGATAAC
 ACAGGTAACCTAGCCCAGGCTGAAGCTGTTGGAAGAGAGGCCCTGCAATTAATACCTAATGATCACTCCC
 TTATGTTCTCATTGGCAAACGTGCTGGGAAATCCCAGAAATACAAGGAGTCTGAAGCTTTATTCCTCAA
 GGCAATTAAGCAAATCCAAATGTTGCAAGTTACCATGGTAATTTGGCTGTGCTTTATCATCGCTGGGGA
 CATCTTGACTCTGCCAAGAAACTATGAGATCTCCTTGACGCTTGACCCTGTGGCAGTAGGCACCAAGG
 AGAATTACAGTCTTCTGAGAAGAAAGCTAGAACAACGCAGAAGAAAGATGCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_028651

Insert Size: 2226 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_028651.2</u> , <u>NP_082927.1</u>
RefSeq Size:	3390 bp
RefSeq ORF:	2226 bp
Locus ID:	70551
UniProt ID:	<u>Q8BG19</u>
Cytogenetics:	14 E5
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]