

## Product datasheet for **MC217872**

### **Tmtc4 (BC031368) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tmtc4 (BC031368) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tmtc4
Synonyms:	4930403J22Rik; 5730419O14Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC217872 representing BC031368  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGTGCAAAGAGCAAGGAATCACTGTGCTGGGCTTGAATGCTGTGTTTCGATATCCTGGTGATAGGCA  
 AACTCGACATTCTGGCAGCTGTCCGGAAGGTCCTACATAAGGACAAGTCACAAGAGAATGCAGGCATGTT  
 CAAGAATGGAGGCCTCCTTTCCGAATAGCCCTGCTTACCATTGGAGGCACCAGCATGCTTTATATACGG  
 TGGAAAATCATGGGAACAGGCCACCGCATTACTGAGGTGGACAACCCAGCATCCTTTGCTGACAGCA  
 TGTTGGTTAGGGCCATAAATAAATTACTACTATTTCATTGAATGCCTGGCTGCTGCTGTGTCCCTGGT  
 GCTGTGTTTTGATTGGTCAATGGGCTGCATCCCCCTCATTAAAGTCAGTTGGTGACTGGAGGGTAATTGCT  
 CTAGCGGCACTTTGGCTCTGCCTAATTGGCCTAATTTCCAAGCCCTGTGCTCTGAGGATAGCTGCAAGA  
 GAAGAATCCTTACTCTGGGTTGGGATTTCTTGATCCCCTTTCTTCTGCAAGCAACTGTTTTTCCG  
 AGTGGGCTTTGTGGTGCAGAACGTGTCTCTACCTTCCAGCGCTGGGTACTGCGTGCTGCTGACCTTT  
 GGATTTGGAGCTCTGAGCAGACACACTAAGAAAAAGAAACCTGTTGCCGCATCATCCTGGGCATCCTTC  
 TCATCAATGCACTGAGATGTGTGATACGCAGTGGTGAAGTGGCGGAGTGAAGAGCAGCTCTTTGAAAGCGC  
 CCTGTCTGTGTGTCCCCTCAATGCTAAGGTTCACTACAACATTGGCAAAAACCTGGCTGATCAAGGCAAC  
 CAAACAGCGGCCATCAAAATTACCGGGAAGCAGTCAGACTAAATCCCAAGTACGTTTCATGCCATGAATA  
 ACCTCGGGAATATCTTAAAAGAAAGGAATGAGCTACAGGAAGCTGAAGAGCTGCTGTGTTGGCTGTCCA  
 AATACAGCCAGACTTTGCAGCCGATGGATGAATTTGGGCATAGTTCAGAACAGCCTGAAACGGTTTGAG  
 GAAGCAGAGCAGAGCTACCGGACAGCGATTAAACACAGGAGGAAATACCCAGACTGCTACTACAACCTCG  
 GCGGCTGTATGCAGATCTAAATCGCCACGTGGATGCATTGAACGCTTGGAGAAATGCCACCGTACTGAA  
 GCCGGAGCACAGCCTGGCGTGGAAACAACATGATCATACTTCTGGATAACACAGGTAACCTTAGCCAGGCT  
 GAAGCTGTTGGAAGAGAGGCCCTGCAATTAATACCTAATGATCACTCCCTTATGTTCTCATTGGCAAACG  
 TGCTGGGAAATCCCAGAAATACAAGGAGTCTGAAGCTTTATTCCTCAAGGCAATTAAGCAAATCCAAA  
 TGTTGCAAGTTACCATGGTAATTTGGCTGTGCTTTATCATCGCTGGGACATCTTGACTCTGCCAAGAAA  
 CACTATGAGATCTCCTTGACGCTTGACCCTGTGGCAGTAGGCACCAAGGAGAATTACAGTCTTCTGAGAA  
 GAAAGCTAGAACAACCGCAGAAGAAAGATGT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja3479\\_g01.zip](https://cdn.origene.com/chromatograms/ja3479_g01.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** BC031368

**Insert Size:** 1575 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:** [BC031368](#), [AAH31368](#)

**RefSeq Size:** 2824 bp

**RefSeq ORF:** 1574 bp

**Locus ID:** 70551

**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]