

## Product datasheet for **SC128238**

### TMTC1 (NM\_175861) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMTC1 (NM\_175861) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** TMTC1  
**Synonyms:** ARG99; OLF; TMTC1A  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL4  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_175861 edited  
GGGAGCTCGCGGGGGTCCAGCTGCCCGCAGCACCATGCCCGAGCCCCCTCCGGGCAGAC  
GCCGCGCGCCGCCGGGGCCCCGGTAGGGGAGGATGCCAGACGCCCGGGAGAGGCCAGGGC  
AGCAGCGCGCGCGGGCGCGATGGTGGTGACCACCTCTGCCCGAGGCGCGCGGGGAC  
CGCACACCCTCCCGCGCGGGGCTGCGGGCTCGCGCCGGCCGGGGCCGCGGCGTGCTG  
GCCGGGGCAAGCTGCCTGTGCTACGGCCCTCCCTGCAGGGCGAGTTCGTGCACGACGAC  
GTGTGGGCGATCGTGAACAACCCCGACGTGCGGCCCGGCGCCCCGCTCCGCTGGGCATC  
TTCACCAACGACTTCTGGGGCAAGGCATGGCCGAGAACCAGCCACAAGTCTACCGG  
CCGCTCTGCGTCTCACCTTCAAGCTAACATATTTTTGACTGGTATGAACCCATTCTAC  
TTTCATGCAGTAAATATAATTTTACACTGCTTAGTGACTCTTGTGCTGATGTACACCTGT  
GATAAAACTGTCTCAAGAATCGTGACTTGTCTTTGTAACGGCATTGCTTTTTGCTGTA  
CATCTATTACTACTGAGGCGGTGGCTGGGATCGTTGGCAGAGCGGACGTGTAGCGTGT  
CTGCTGTTTTCTATTGGCCTTTCTCTCGTACAACAGGAGTCTGGATCAGGGCTGTGTTGGG  
GGAAGTTTCCCTTCCACGGTGTCTCCCTTCTTCTGCTGCTCAGTTTGTCTGGGGACC  
TGTGCGATGCTGGTGAAGAGACAGGCATCACGGTGTGTTGGAGTGTGCTTGGTTATGAC  
CTCTTTTCCCTTCCAACAAGCAAGACAAGTCAAGCAATGGGGCCCTCTGTCCACGCAGC  
CCACAGCAGCCCCGGGAGCCCCAGCCCTCCTACTGCCAGGCCATCCTCACCGGGAGAAT  
GGGAAGCAGCAGCGGTTCCCTCACAAGGAGCTTGGGGTGGCTGCCACTCTCCACTGCCA  
CCAGAACCAGAGCAGTGGATTCCCAGTGTCCCACGAGCTGTGTTGGTCCATGATGAGA  
TTCTCACCTATTCTACTCTTGGCCTTCAATGTGTGGCTTCTGCTTGACCCGTGACC  
CTGTGCTATGACTGGCAGGTCGGCAGTATTCTCTGGTAGAGACCATATGGGACATGCGG  
AACTTAGCCACCATCTTCTGGCGTGTGATGGCCTTATTGAGCCTGCACTGCTTAGCA  
GCCTTTAAGAGACTGGAGCACAAGGAGTTTTAGTCGGCTTGTGTTCTGTTGTTCCCG  
TTCATTCCAGCCAGCAACCTCTTCTCAGGGTGGGTTTTGTGGTGGCGGAGAGATCCTT  
TACATGCCTAGCATGGGCTACTGCATCCTTTTTGTGCACGGACTGAGCAAGCTCTGCACT  
TGGCTGAATCGATGTGGGGCCACCACCCTGATTGTGCCACTGTGTTGCTGCTGTTGCTT  
TTCTCTTGAAAACTGTGAAACAGAATGAAATTTGGCTGTCAAGAGAGTCCCTATTACAG



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TCTGGAGTTCAAACTCTGCCCCACAATGCCAAGGTTCACTACAACATATGCCAATTTCTCTG  
 AAGGACCAAGGTCGGAACAAGGAAGCGATCTACCACTACAGAACAGCTCTCAAGTTGTAT  
 CCACGCCATGCAAGTGCCTCAACAACCTTGGAACTGACGAGAGACACAGCAGAGGCA  
 AAGATGTACTATCAGAGGGCTCTCCAGCTCCATCCACAGCATAACCGGGCTCTTTTCAAT  
 CTGGGGAATCTCCTCAAGTCCCAGGAGAAAAAGGAAGAAGCTATCACCTACTGAAGGAT  
 TCCATCAAATATGGTCCAGAGTTTGCAGATGCATATTCAAGCTTAGCTTCGTTATTGGCT  
 GAGCAGGAGCGGTTTAAAGAAGCTGAAGAAATATACCAAAGTGAATAAAGAAGTGTCCA  
 GACAGCTCAGATTTACACAACAACATATGGGGTTTTCTTAGTTGATACTGGCTTACCAGAA  
 AAGGCAGTGGCCATTACCAGCAGGCCATCAAAGTCCAGTCCATCAGTGGCCATG  
 GTGAAGTGGGAAGACTCTACAGGTCAGTGGGAGAGAACAGCATGGCTGAAGAATGGTAC  
 AAGCGCGCCCTGCAGGTGGCACAAAGCTGAGATATTGTACCTTTGGGAGCACTGTAT  
 TACAACACTGGCCGATACGAAGAGGCTTTGCAGATTTACCAGGAAGCTGCAGCACTTCAG  
 CCTTCTCAGAGGGAGCTCCGCTTGGCACTGGCTCAGGTTTTGGCCGTGATGGGTGAGACA  
 AAAGAAGCTGAAAAGATACCAATCACATTGTGTGAGAGGAGACCGGATGCCTTGAATGC  
 TATCGCCTCTTGTGAGCCATCTATAGCAAGCAGGAGAACACGACAAGGCACTTGATGCT  
 ATAGACAAGGCTCTCCAGCTGAAACCAAAGGACCCAAAAGTCATTTCTGAACTTTTTTTC  
 ACAAAGGAAACCAATTAAAGAGAGCAGAACCTTCTCGACAAGGCTTTTGAGAGCTATAGA  
 GTGGCTGTGCAACTAAACCCAGACCAAGCACAGGCCTGGATGAACATGGGTGGCATCCAA  
 CACATCAAGGGAAAAATATGTGTCTGCAAGAGCTTATTATGAGAGAGCCTTACAGCTGGTT  
 CCAGACAGCAAAGTGTGAAGGAAAACTTGGCAAATGGATCGCTAGAAAAACGATTA  
 CAAGAAGTTCGAGAAAAGGATCAAACATAGCACACCCTGACCCAACCTCATAGGATA  
 ATGTGGTGCCTCTGAAAGGGGAGTGTGGAAGCCTTGTCTTACATCAGCAGGGGCACAA  
 CTAATGAGATTTTCTCTCATTCCGAGTTCAGGGTGCACATTTTGGGACATCTGCTGGTA  
 GCCCAGTGTGAAGGACTTGCTTTTCCATGAAGAAGACGAAAACAGCAAACAAGGGCAAG  
 AAGGTCTGAGAGGGAAGGAGAATGACATTTACACATTTTACAGATTTTGTGGTTTAA  
 CTCCAGATTTCTCTTGATATATCTCTGTGCTTTTGGACCTGGAGATCTAATTCTGTTTA  
 GACATTTTTTGTCCAGAAATACAGAAGCTTGAATGCTATGAAGGCAGAGCTTCTATTCT  
 TTTATGGGATGAAATATTTCAAAGAGGATAAATCCTCTGTGGTAAGCCATTTGGAAAAAT  
 CCTACCAAGAATTGGCTATTTAATTTTCCAGAACCAGGAATGAGTATCTAATAGCTTTT  
 ATAGAACCTTCCAGAATATGTGGGAAAAAGGGCTATTGCTAAGTGAAGCTTTATCTAATA  
 TCCTCCTAAGAGTTTTACTAGTGTTTTTTGGGAATTACAGGGAAGCTCCTGGAATTGT  
 ACATGGATATCTTATCCCTAGGGGAAATCAAGGAGCTGGGCACCCCTAATTCTTTATG  
 GAAGTGTAAAAACTATTTAATTTTATTACAAGTATTACTAGAGTAGTGGTTCTACTCT  
 AAGATTTCAAAGTGCATTTAAATCATAACATGTTCCCGCTGCAATATATTGTTATTT  
 TGGTGGAGAAAAAATAGTATATTCTACATAAAAAATTAAGATATTAACAAAGAAAAA  
 AAAAAAAAAAAAA

**5' Read Nucleotide Sequence:**

>Reverse primer walk for NM\_175861 unedited  
 TTAACCAGCCACTCCAAACCCGTGNAGCCTGTCTTTTACCAGCATCGCACAAGGTCCC  
 CAGNAAACAAACTGAGCAGCAANAAGAAGGGAGACACCGTGGAAAGGAAACTTCCCCAA  
 CACAGCCCTGATCCAGACTCCTGTTGTACGAGAGAAAAGGCCAATAGAAACAGCAGACAG  
 CTAACACGTCCGCTCTGCCAACGATCCCAGCCACCGCCTCAGTATGAATAGGATGTACAG  
 CAAAAAGCAATGCCGTTACAAAAGCAAGTCCACGATTCTTGAAGACAGTTTTATCACAGG  
 TGTACATCAGCACAAGAGTCACTAAGCAGTGTAAAATTAATTTACTGCATGAAAGTAGA  
 ATGGGTTTCATACCAGTCAAAAATATGTTTAGCTTGAAGGTGAGGACGCAGAGCGGCCGGT  
 AGGACTTGTGGTGGTCTCTCGGCCATGCCCTTGCCCCAGAAGTCGTTGGTGAAGATGC  
 CCCAGCGGAGCGGGCGCCGGGCCGACGTCGGGGTTGTTACAGATCGCCACACGTCGT  
 CGTGACGAACTCGCCCTGCAAGGAGCGGCCGTAGCACAGGCAGCTTGCCCCGGCCAGCA  
 GCGCCGCGGCCCGCCCGCGAGCCCGCAACCCCGCCCGGGAGGGTGTGCGGTCCC  
 CGCCGCGCCTCGGGCAGAGGTGGTACCACCATTTGTGCCGCGCCGCGCTGCTGCCCT  
 GGCCTCTCCCGGCGTCTGGCATCTTCCCTACCGGGCCCGGGCGCCCGCGGCTGTC  
 CCGGAAGGGCCTCGGGCATGTTGCTGCGGCAGCTGGACCCGCCAGCTCCCCCTCG  
 GGCCAAAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_175861 unedited  
 NANAGCACTGGGGCAGGGTCACAGGGATGCCACCCGGGNTCTGTTCAGGAAACAGCTATG  
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTCTTAGTTAATATCTTT  
 AATTTTTTATGTAGAATACTATTTTTTCTCCACAAAATAACAATATATTTGCAGGC  
 GGGAACATGTATGATTTTAAATGCACTTTTGAATCTTAGAGTAGAACCACTACTCTAGT  
 AATACTTGAATAAAATTAAGTATTTTAAACTTCCATAAAGAATTAGGGGTGCCCA  
 GCTCCTTGATTTCCCTAGGGATAAAGATATCCATGTACAATCCAGGAGCTTCCCTGT  
 AATTCCTCAAAAAGCACTAGTAAACTCTTAGGAGGATATTAGATAAAGCTCACTTAGC  
 AATAGCCCTTTTTCCACATATTCTGGAAGGTTCTATAAAGCTATTAGATACTCATT  
 CTGGTTCTGAAAATTAATAAGCCAATCTTGGTAGGATTTTCCAAATGGCTTACCACA  
 GAGGATTTATCCCTCTTTGAAATTTTCATCCATAAAGAATAGAAGCTCTGCCTTCAT  
 AGCATTTAAGGCTTCTGTATTTCTGGGACAAAAAATGTCTAAACAAGAATTAGATCTCC  
 AGGTTTTAAAAGCCCGAGTTTTTTCAAGAGGAATCTGGAGTAAACCAACAAAAATCTG  
 GAAAATGGGTAATGTCATTTTCCTTCTTAAACACTTTTGCCCTTGGTTGGTGTTC  
 GGCTTCTTACGGGAAAAACAAGTCTTTACCCTGGGCTACCCACAAATTGTCCAAAATG  
 TTTCCCT

**Restriction Sites:**

Please inquire

**ACCN:**

NM\_175861

**Insert Size:**

3700 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:** [NM\\_175861.2](#), [NP\\_787057.2](#)

**RefSeq Size:** 8821 bp

**RefSeq ORF:** 2325 bp

**Locus ID:** 83857

**UniProt ID:** [Q8IUR5](#)

**Cytogenetics:** 12p11.22

**Protein Families:** Transmembrane

**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]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.