

## Product datasheet for **RG231432**

### **TMTC1 (NM\_001193451) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TMTC1 (NM_001193451) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMTC1
Synonyms:	ARG99; OLF; TMTC1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG231432 representing NM\_001193451  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGGTGACCACCTCTGCCCGAGGCGGCCGGGGACCGCACACCCTCCCGCGCGGGGCTGCGGGC  
 TAGCGCCGGCCGGGGCCGCGCGCTGCTGGCCGGGCAAGCTGCCTGTGCTACGGCCGCTCCCTGCAGGG  
 CGAGTTCGTGCACGACGACGTGTGGGCGATCGTGAACAACCCGACGTGCGGCCCGCGCCCGCTCCGC  
 TGGGGCATCTTACCAACGACTTCTGGGCAAGGGCATGGCCGAGAACACCAGCCACAAGTCTACCGGC  
 CGCTCTGCGTCTCACCTTAAGCTAACATATTTTTGACTGGTATGAACCCATTCTACTTTCATGCAGT  
 AAATAAATTTTACTGCTTAGTGACTCTGTGCTGATGTACACCTGTGATAAAACTGTCTTCAAGAA  
 CGTGGACTTGCTTTGTAACGGCATTGCTTTTGTGCTGATCCTATTACTGAGGCGGTGGCTGGGA  
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 GGATCAGGGCTGTGTTGGGGGAAGTTCCCTTCCACGGTGTCTCCCTTCTTGTGCTCAGTTTGT  
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 CGGGAGCCCCAGCCCTCCTCACTGCCAGGCCATCCTCACCGGAGAAATGGGAAGCAGCAGCGGTTCCCT  
 CACAAAGGAGCTTGGGGTGGCTGCCACTCTCCACTGCCACCAGAACCCAAGAGCAGTGGATTCCCAGTGT  
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 GACATGCGGAACCTAGCCACCATCTTCTGGCGGTTGTGATGGCCTTATTGAGCCTGCAGCTGTAGCAG  
 CCTTTAAGAGACTGGAGACAAGGAGGTTTTAGTCGGCTTGTGTTCTGTTCTGGTGTTCATCCAGCAG  
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 CACGCCATGCAAGTGGCTCAACAACCTTGAACACTGACGAGAGACACAGCAGAGGCAAGATGTACTA  
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 CAAAAGGAAACCAATTAAGAGAGCAGAACCTTCTCGACAAAGCTTTTGTAGAGCTATAGAGTGGCTGTGCA  
 ACTAAACCCAGACCAAGCACAGGCTGGATGAACATGGGTGGCATCCAACACATCAAGGGAAAATATGTG  
 TCTGCAAGAGCTTATTATGAGAGAGCTTACAGCTGGTTCAGACAGCAAACCTGCTGAAGGAAAATCTTG  
 CCAAATGGATCGCTAGAAAACGATTACAAGAAGTTCGAGAAAAGGATCAAACA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - **GTTTAA**

**Protein Sequence:** >RG231432 representing NM\_001193451  
 Red=Cloning site Green=Tags(s)

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MVVTTSARGGGDRTPSRRRGCLAPAGAAALLAGASCLCYGRSLQGEFVHDDVWAIVNNPDVRPGAPLR
WGIFTNDFWKGMAENTSHKSYRPLCVLTFKLNIFLTGMNPFYFHAVNIILHCLVTLVLMYTCDKTVFKN
RGLAFVTALLFAVHPHTEAVAGIVGRADVLACLLFLLAFLSYNRSLDQGCYVGGSPSTVSPFFLLLSLF
LGTCAMLVKETGITVFGVCLVYDLFSLSNKQDKSSNGALCPRSPQQPGSPQSSLPGHPHRENGKQQRFP
HKGAWGGCHSPLPPEPKSSGFPVSPRAVWMMRFLTYSYLLAFNVWLLLAPVTLCYDWQVGS IPLVETIW
DMRNLATIFLAVVMALLSLHCLAAFKRLEHKEVLVGLLFLVFPFIPASNLFFRVGFVVAERVL YMPMSGY
CILFVHGLSKLCTWLNRCGATTLIVSTVLLLLLFSWKTVKQNEIWL SRESLFRSGVQTLPHNAKVHYNYA
NFLKDGQRNKEAIYHYRTALKLYPRHASALNNGTLTRDTAEAKMYQRALQLHPQHNRALFNLGNLLKS
QEKKEEAITLLKDSIKYGFPEFADAYSSLASLLAEQERFKEAEEIYQTGIKNCPDSSDLHNNYGVFLVDTG
LPEKAVAHYQQA IKLSPSHHVAMVNLGRLYRSLGENSMAEEWYKRALQVAHKAEILSPLGALYYNTGRYE
EALQIYQEAALQPSQRELRLALAQVLAVMGQTKEAEKMTNHIVSEETGCLECYRLLSAIYSKQENHDKA
LDAIDKALQLKPKDPKVISELFFTKGNQLREQNLLDKAFESYRVAVQLNPDQAQAWMMGGIQHIKGYV
SARAYYERALQLVPD SKLLKENLAKLDRLEKRLQEVREKDQT
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TRTRPLE - GFP Tag - V

**Restriction Sites:**

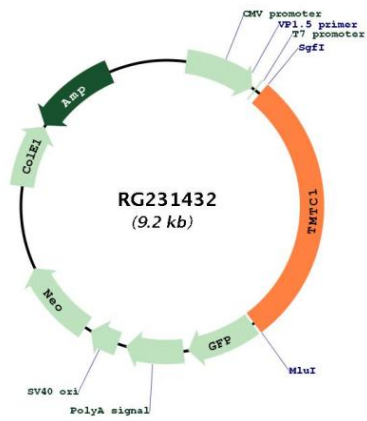
SgfI-MluI

**Cloning Scheme:**



<b>ACCN:</b>	NM_001193451
<b>ORF Size:</b>	2646 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001193451.2</a>
<b>RefSeq Size:</b>	8750 bp
<b>RefSeq ORF:</b>	2649 bp
<b>Locus ID:</b>	83857
<b>UniProt ID:</b>	<a href="#">Q8IUR5</a>
<b>Cytogenetics:</b>	12p11.22
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]

Product images:



Circular map for RG231432