

Product datasheet for **RG214626**

TMTC4 (NM_001079669) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMTC4 (NM_001079669) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMTC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG214626 representing NM_001079669
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCCGTGTTGGACACTGATTTGGATCACATTCTTCATCTTCTGTTCTTCTCCATTCTGGGCTAAGT
 TAGTAGTGGGATCGGTTGCCATTGTGTGTTTTGCACGCAGCTATGATGGAGACTTTGTCTTTGATGACTC
 AGAAGCTATTGTTAAACAATAAGGACCTCCAAGCAGAAACGCCCTGGGGGACCTGTGGCATCATGACTTC
 TGGGGCAGTAGACTGAGCAGCAACACCAGCCACAAGTCTACCGGCTCTCACCGTCTGACTTTTCAGGA
 TTAATACTACCTCTCGGGAGGCTTCCACCCCGTGGGCTTTACGTGGTCAACATCCTCTGCACAGTGG
 CATCTCTGTCTCATGGTGGACGTCTTCTCGGTTCTGTTTGGCGGCTGCAGTACACCAGTAAAGGCCGG
 AGGCTGCACCTCGCCCCAGGGCGTCCCTGCTGGCCGCGCTGCTGTTGTGTCCATCCTGTGCACACCG
 AGTGTGTTGCTGGTGTGTCGGCGTGCAGACCTCCTGTGTGCCCTGTTCTTCTGTTATCTTTCTTGG
 CTACTGTAAGCATTTAGAGAAAGTAACAAGGAGGGAGCGCATTCTTCCACCTTCTGGGTGCTGCTGAGT
 ATCTTTCTGGGAGCAGTGGCCATGCTGTGCAAAGAGCAAGGGATCACTGTGCTGGGTTTAAATGCGGTAT
 TTGACATCTTGGTGATAGGCAAATTCATGTTCTGGAAATTGTCCAGAAGGTACTACATAAGGACAAGTC
 ATTAGAGAATCTCGGCATGCTCAGGAACGGGGGCTCCTCTTCAGAATGACCCTGCTCACCTCTGGAGGG
 GCTGGGATGCTCTACGTGCGCTGGAGGATCATGGGCACGGGCCCGCCGCTTCACCGAGGTGGACAACC
 CGGCCTCCTTTGCTGACAGCATGCTGGTGGGGCGTAACTACAATTACTACTATTATTGAATGCCTG
 GCTGCTGCTGTGCTCCCTGGTGGCTGTGTTTATTGGTCAATGGGCTGCATCCCCCTCATTAAAGTCCATC
 AGCGACTGGAGGGTAATTGCATTGACAGCACTGCTGTTCTGCCTAATTGGCCTGATATGCCAAGCCCTGT
 GCTCTGAAGACGGCCACAAGAGAAGGATCCTTACTCTGGGCTGGGATTTCTCGTTATCCCATTCTCCC
 CGCGAGTAACCTGTTCTTCCGAGTGGGCTTCGTGGTGCAGAGCGTGTCTCTACCTCCCCAGCGTTGGG
 TACTGTGTGCTGCTGACTTTTGGATTGCGAGCCCTGAGCAAACATACCAAGAAAAAGAACTCATTGCCG
 CTGTCTGCTGGGAATCTTATTCATCAACACGCTGAGATGTGTGCTGCGCAGCGGCGAGTGGCGGAGTGA
 GGAACAGCTTTTCAGAAGTGTCTGTCTGTGTGCTCCCTCAATGCTAAGGTTCACTACAACATTGGCAAA
 AACCTGGCTGATAAAGGCAACCAGACAGCTGCCATCAGATACTACCGGGAAGCTGAAGATTAAATCCCA
 AGTATGTTTCATGCCATGAATAATCTTGAAATATCTTAAAGAAAGGAATGAGCTACAGGAAGCTGAGGA
 GCTGCTGTCTTTGGCTGTTCAAATACAGCCAGACTTTGCCGCTGCGTGGATGAATCTAGGCATAGTGCAG
 AATAGCCTGAAACGGTTTGAAGCAGCAGAGCAAAGTTACCGGACAGCAATTAACACAGAAGGAAATACC
 CAGACTGTACTACAACCTCGGGCGTCTGTATGCAGATCTCAATCGCCACGTGGATGCCTTGAATGCGTG
 GAGAAATGCCACCGTGCTGAAACCAGAGCACAGCTGGCCTGGAACAACATGATTATACTCCTCGACAAT
 ACAGGTAATTTAGCCCAAGCTGAAGCAGTTGGAAGAGAGGCACTGGAATTAATACCTAATGATCACTCTC
 TCATGTTCTCGTTGGCAACGTGCTGGGAAATCCCAGAAATACAAGGAATCTGAAGCTTTATTCCTCAA
 GGCAATTAAGCAAAATCCAAATGCTGCAAGTTACCATGGTAATTTGGCTGTGCTTTATCATCGTTGGGGA
 CATCTAGACTTGGCCAAGAAACACTATGAAATCTCCTTGACAGTTGACCCACGGCATCAGGAACCTAAGG
 AGAATTACGGTCTGCTGAGAAGAAAGCTAGAACTAATGCAAAAGAAAGCTGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG214626 representing NM_001079669
 Red=Cloning site Green=Tags(s)

MAVLDTLDHILPSSVLPPFWAKLVVGSVAIVCFARSYDGDVFDDSEAI VNNKDLQAETPLGDLWHHDF
 WGSRLSSNTSHKSYRPLTVLTFRINYYLSGGFHPVGFHVNNILLHSGISVLMVDVSVLFGGLQYTSKGR
 RLHLAPRASLLAALLFAVHPVHTECVAGVVGRADLLCALFFLLSFLGYCKAFRESNKEGAHSSTFWLLS
 IFLGAVAMLCKEQGITVLGLNAVFDILVIGKFNVL EIVQKVLHKDSLENL GMLRNGGLFRMTLLTSGG
 AGMLYVRWRIMGTGPPAFTEVDNPASFADSM LVRAVNYYYSLSNAWLLLCPPWLCFDWSMGCIPLIKSI
 SDWRVIALAALWFCLIGLICQALCSEDGHKRRILTLGLGFLVIPFLPASNLFFRVGFVVAERVL YLPSVG
 YCVLLTFGFGALSKHTKKKKLIAAVVLGILFINTLRCLVLRSGEWRSEEQLFRSALSVCPLNAKVHYNIGK
 NLADKGNQTAAIRYYREAVRLNPKYVHAMNNLGNILKERNELQEAELL SLAVQIQPDFAAAWMNLGIVQ
 NSLKRFEAAEQSYRTAIKRRKYPDCYYNLGRLYADLNRHVDALNAWRNATVLKPEHSLAWNMIILLDN
 TGNLAQAEAVGREALELIPNDHSLMFSANVLGKSQKYKESEALFLKAIKANPNAASYHGNLAVLYHRWG
 HLDLAKKHYEISLQLDPTASGTENYGLLRKLELMQKKAV

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001079669

ORF Size: 2223 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001079669.4](#)

RefSeq Size: 3561 bp

RefSeq ORF: 2226 bp

Locus ID: 84899

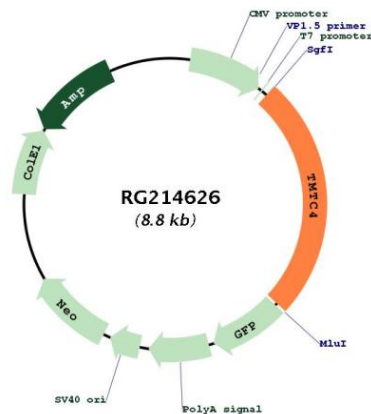
UniProt ID: [Q5T4D3](#)

Cytogenetics: 13q32.3

Protein Families: Transmembrane

Gene Summary: This gene encodes a transmembrane protein that belongs to family of proteins containing an N-terminal transmembrane domain and a C-terminal tetratricopeptide repeat (TPR) domain. TPR domains mediate protein-protein interactions in various cellular processes, such as synaptic vesicle fusion, protein folding, and protein translocation. A pseudogene of this gene has been defined on chromosome 5. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RG214626