

Product datasheet for **RC214626**

TMTC4 (NM_001079669) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMTC4 (NM_001079669) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMTC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214626 representing NM_001079669
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGTGTTGGACACTGATTTGGATCACATTCTCCATCTTCTGTTCTTCTCCATTCTGGGCTAAGT
 TAGTAGTGGGATCGGTTGCCATTGTGTGTTTTGCACGCAGCTATGATGGAGACTTTGTCTTTGATGACTC
 AGAAGCTATTGTTAAACAATAAGGACCTCCAAGCAGAAACGCCCTGGGGGACCTGTGGCATCATGACTTC
 TGGGGCAGTAGACTGAGCAGCAACACCAGCCACAAGTCTACCGGCTCTCACCGTCTGACTTTTCAGGA
 TTAACTACTACCTCTCGGGAGGCTTCCACCCCGTGGGCTTTCACGTGGTCAACATCTCTGCACAGTGG
 CATCTCTGCTCATGGTGGACGCTTCTCGGTTCTGTTTGGCGGCTGCAGTACACCAGTAAAGGCCGG
 AGGCTGCACCTCGCCCCAGGGCGTCCCTGCTGGCCGCGTGTGTTGTGTCCATCTGTGCACACCG
 AGTGTGTTGCTGGTGTGTCGGCCGTGCAGACCTCTGTGTGCCCTGTTCTTCTGTTATCTTTCCCTGG
 CTACTGTAAGCATTTAGAGAAAGTAACAAGGAGGGAGCGCATTCTTCCACCTTCTGGGTGCTGCTGAGT
 ATCTTTCTGGGAGCAGTGGCCATGCTGTGCAAAGAGCAAGGGATCACTGTGCTGGGTTTAAATGCGGTAT
 TTGACATCTTGGTGATAGGCAAATTCATGTTCTGGAAATGTCCAGAAGGTAACATAAGGACAAGTC
 ATTAGAGAATCTCGGCATGCTCAGGAACGGGGCCTCCTCTTCAAGATGACCCTGCTCACCTCTGGAGGG
 GCTGGGATGCTCTACGTGCGCTGGAGGATCATGGGCACGGGCCCGCCGCTTACCCGAGGTGGACAACC
 CGGCCTCCTTTGCTGACAGCATGCTGGTGGGGCCGTAACACTACAATTACTACTATTGATGACCTG
 GCTGCTGCTGTCCCTGGTGGCTGTGTTTTGATTGGTCAATGGGCTGCATCCCCCTCATTAAAGTCCATC
 AGCGACTGGAGGGTAATTGCACCTGCAGCACTCTGGTTCTGCCTAATTGGCTGATATGCCAAGCCCTCC
 GCTCTGAAGACGGCCACAAGAGAAGGATCCTTACTCTGGGCTGGGATTTCTGTTATCCCATTCTCCC
 CGCGAGTAACCTGTTCTTCCGAGTGGGCTTCGTGGTGCAGAGCGTGCCTCTACCTCCCCAGCGTTGGG
 TACTGTGTGCTGCTGACTTTTGGATTCCGAGCCCTGAGCAAACATACCAAGAAAAAGAACTCATTGCCG
 CTGTCGTGCTGGGAATCTTATTCATCAACACGCTGAGATGTGTGCTGCGCAGCGGCGAGTGGCGGAGTGA
 GGAACAGCTTTTCAGAAGTGTCTGTGTGTGCTCCCTCAATGCTAAGGTTCACTACAACATTGGCAAA
 AACCTGGCTGATAAAGGCAACCAGACAGCTGCCATCAGATACTACCGGGAAGCTGTAAGATTAATCCCA
 AGTATGTTTATGCCATGAATAATCTTGGAAATATCTTAAAGAAAGGAATGAGCTACAGGAAGCTGAGGA
 GCTGCTGCTTTGGCTGTTCAAATACAGCCAGACTTTGCCGCTGCGTGGATGAATCTAGGCATAGTGCAG
 AATAGCCTGAAACGGTTTGAAGCAGCAGAGCAAAGTTACCGGACAGCAATTAACACAGAAGGAAATACC
 CAGACTGTACTACAACCTCGGGCGTCTGTATGCAGATCTCAATCGCCAGTGGATGCCTTGAATGCGTG
 GAGAAATGCCACCGTGTGAAACCAGAGCACAGCTGGCCTGGAACAACATGATTATACTCCTCGACAAT
 ACAGGTAATTTAGCCCAAGCTGAAGCAGTTGGAAGAGAGGCACTGGAATTAATACCTAATGATCACTCTC
 TCATGTTCTCGTTGGCAACGTGCTGGGAAATCCCAGAAATACAAGGAATCTGAAGCTTTATTCCTCAA
 GGCAATTAAGCAAAATCCAAATGCTGCAAGTTACCATGGTAATTTGGCTGTGCTTTATCATCGTTGGGGA
 CATCTAGACTTGGCCAAGAAACTATGAAATCTCCTTGACAGTTGACCCACGGCATCAGGAACAAAGG
 AGAATTACGGTCTGCTGAGAAGAAAGCTAGAACTAATGCAAAAGAAAGCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214626 representing NM_001079669
 Red=Cloning site Green=Tags(s)

MAVLDTLDHILPSSVLPFFWAKLVVGSVAIVCFARSYDGDVFVDDSEAIVNNKDLQAETPLGDLWHHDF
 WGSRLSSNTSHKSYRPLTVL TFRINYYL SGGFHPVGFHVNILLHSGISVLMVDVFSVLFGGLQYTSKGR
 RLHLAPRASLLAALLFAVHPVHTECVAGVVGRADLLCALFFLLSFLGYCKAFRESNKEGAHSSTFWLLS
 IFLGAVAMLCKEQGITVLGLNAVFDILVIGKFNVLEIVQKVLHKDKSLENLGMRLRNGLLFRMTLLTSGG
 AGMLYVWRIMGTGPPAFTEVDNPASFADSM LVRAVNYYYSLSNAWLLLCPPWLCFDWSMGCIPLIKSI
 SDWRVIALAALWFCLIGLICQALCEDGHKRRILTLGLGFLVIPFLPASNLFFRVGFVAERVL YLPSVG
 YCVLLTFGFGALSKHTKKKLI AAVVLGILFINTLRVLRSGEWRSEEQLFRSALSVCPLNAKVHYNIGK
 NLADKGNQTAAIRYYREAVRLNPKYVHAMNNGN ILKERNELQEA ELLSLAVQIQPDFAAAWMNLGIVQ
 NSLKRFEAAEQSYRTAIKHRKYPDCYYNLGR L YADLNRHVDALNAWRNATV LKPEHSLAWNMIILLDN
 TGNLAQAEAVGREALELIPNDHSLMFLANVLGKSQKYKESEALFLKAIKANPNAASYHGNLAVL YHRWG
 HLDLAKKHYEISLQLDPTASGTENYGLLRKLELMQKKAV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

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](#)

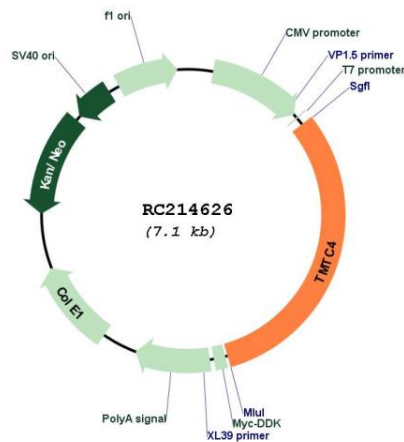
Cytogenetics: 13q32.3

Protein Families: Transmembrane

MW: 82.8 kDa

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 RC214626