

## Product datasheet for **RC221928**

### **TMTC4 (NM\_032813) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TMTC4 (NM_032813) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMTC4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide  
Sequence:

>RC221928 representing NM\_032813  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGATTCTAACCAGCATAATGCTGGAGCCGGGAGCCACCAACCTGCAGTTTTCAGAATGGCCGTGTTGG  
ACACTGATTTGGATCACATTCTCCATCTTCTGTTCTTCTCCATTCTGGGCTAAGTTAGTAGTGGGATC  
GGTTGCCATTGTGTGTTTTGCACGCAGCTATGATGGAGACTTTGTCTTTGATGACTCAGAAGCTATTGTT  
AACAAAGGACCTCCAAGCAGAAACGCCCTGGGGACCTGTGGCATCATGACTTCTGGGGCAGTAGAC  
TGAGCAGCAACACCAGCCACAAGTCTACCGCCCTCTCACCGTCTGACTTTCAGGATTAACACTACCT  
CTCGGGAGGCTTCCACCCCGTGGGCTTTCACGTGGTCAACATCCTCTGCACAGTGGCATCTCTGTCCTC  
ATGGTGGACGTCTTCTCGTTCTGTTTGGCGCCTGCAGTACACCAGTAAAGGCCGGAGGCTGCACCTCG  
CCCCAGGGCGTCCCTGCTGGCCGCGCTGCTGTTTGTGTCCATCTGTGCACACCGAGTGTGTTGCTGG  
TGTTGTGCGCCGTGCAGACCTCTGTGTGCCCTGTTCTTCTTGTATCTTTCCTTGGCTACTGTAAGCA  
TTTAGAGAAAGTAAACAGGAGGGAGCGCATTCTCCACCTTCTGGGTGCTGCTGAGTATCTTTCTGGGAG  
CAGTGGCCATGCTGTGCAAGAGCAAGGGATCACTGTGCTGGGTTTAAATGCGGTATTTGACATCTTGGT  
GATAGGCAAAATCAATGTTCTGGAATTTGTCAGAAAGTACTACATAAGGACAAGTCATTAGAGAATCTC  
GGCATGCTCAGGAACGGGGCCCTCTTTCAGAATGACCTGCTCACCTCTGGAGGGGCTGGGATGCTCT  
ACGTGCGCTGGAGGATCATGGGCACGGGCCCGCCGCTTACCAGAGGTGGACAACCCGGCTCCTTTG  
TGACAGCATGCTGGTGGGGCCGTAACATACTACTACTTTCATTGAATGCCTGGTGTGCTGTGTGT  
CCCTGGTGGCTGTGTTTGTATTGGTCAATGGGCTGCATCCCCCTCATTAAAGTCCATCAGCGACTGGAGGG  
TAATTGCACCTGCAGCACTCTGTTCTGCCTAATTGGCCTGATATGCCAAGCCCTGTGCTCTGAAGACGG  
CCACAAGAGAAGGATCCTTACTCTGGCCCTGGGATTTCTCGTTATCCCATTTCTCCCGGAGTAACCTG  
TCTTCCGAGTGGGCTTCTGTTGTCGAGAGCGTGTCTCTACCTCCCAGCGTTGGGTAAGTGTGCTGCTG  
TGACTTTTGGATTGCGAGCCCTGAGCAAACATACCAAGAAAAAGAACTCATTGCCGCTGTGCTGCTGGG  
AATCTTATTCATCAACACGCTGAGATGTGTGCTGCGCAGCGGCGAGTGGCGGAGTGGGAACAGCTTTTC  
AGAAGTGTCTGTCTGTGTGCCCTCAATGCTAAGGTTCACTACAACATTGGCAAAAACCTGGCTGATA  
AAGGCAACCAGACAGCTGCCATCAGATACTACCGGAAGCTGTAAGATTAATCCCAAGTATGTTTCATGC  
CATGAATAATCTTGGAAATATCTTAAAAGAAAGGAATGAGCTACAGGAAGCTGAGGAGCTGCTGTCTTTG  
GCTGTTCAAATACAGCCAGACTTTGCCGCTGCGTGGATGAATCTAGGCATAGTGCAGAATAGCCTGAAAC  
GGTTTGAAGCAGCAGAGCAAAGTACCAGCAGCAATTAACACAGAAAGGAAATACCCAGACTGTTACTA  
CAACCTCGGGCGTCTGTATGCAGATCTCAATCGCCACGTGGATGCCTTGAATGCGTGGAGAAATGCCACC  
GTGCTGAAACCAGAGCACAGCCTGGCCTGGAACAACATGATTATACTCTCGACAATACAGGTAATTTAG  
CCCAAGCTGAAGCAGTTGGAAGAGAGGCACTGGAATTAATACCTAATGATCACTCTCTCATGTTCTCGTT  
GGCAAACGTGCTGGGAAATCCCAGAAATACAAGGAATCTGAAGCTTTATCTCAAGGCAATTAAGCA  
AATCCAAATGCTGCAAGTTACCATGGTAATTTGGCTGTGCTTTATCATCGTTGGGGACATCTAGACTTGG  
CCAAGAAACACTATGAAATCTCCTTGCAGCTTGACCCACGGCATCAGGAATAAGGAGAATTACGGTCT  
GCTGAGAAGAAAGCTAGAACTAATGCAAAAGAAAGCTGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC221928 representing NM\_032813  
 Red=Cloning site Green=Tags(s)

MIPNQHNAGAGSHQPAVFRMAVLDTDLDHILPSSVLPFFWAKLVVGSVAIVCFARSYDGDVFDDSEAIV  
 NNKDLQAEPLGDLWHHDFWGSRLSSNTSHKSYRPLTVL TFRINYLLSGGFHPVGFHVVNILLHSGISVL  
 MVDVFSVLF GGLQYTSKGRRLHLAPRASLLAALLFAVHPVHTECVAGVGRADLLCALFFLLSFLGYCKA  
 FRESNKEGAHSSTFWVLLSIFLGAVAMLCKEQGITVLGNAVFDILVIGKFNVLEIVQKVLHKDKSLENL  
 GMLRNGLLFRMTLLTSGGAGMLYVRWRIMGTGPPAFTEVDNPASFADSMVRAVNYYYSLNAWLLLC  
 PWWLCFDWSMGCIPLIKISDWRVIALAALWFCLIGLICQALCSEDGHKRRILTLGLGFLVIPFLPASNL  
 FFRVGFVVAERVLVLPVSGYCVLLTFGFGALSKHTKKKKLIAAVVLGILFINTLRCVLRSGEWRSEEQLF  
 RSALSVCPLNAKVHYNIGKNLADKGNQTAAIRYYREAVRLNPKYVHAMNNLGNILKERNELQEAELLSL  
 AVQIQPDFAAAWMNLGIVQNSLKRFEAAEQSYRTAIKHRKYPDCYYNLGRLYADLNHRVDALNAWRNAT  
 VLKPEHSLAWNMIILLDNTGNLAQAEAVGREALELIPNDHSLMFLANVLGKSQYKSEALFLKAIKA  
 NPNAASYHGNLAVLYHRWGHLDLAKKHYEISLQLDPTASGTKENYGLLRKLELMQKKAV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8011\\_e06.zip](https://cdn.origene.com/chromatograms/mk8011_e06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_032813

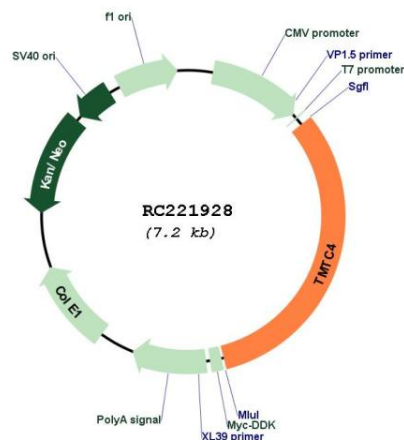
**ORF Size:** 2280 bp

**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.

<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_032813.5</a>
<b>RefSeq Size:</b>	3771 bp
<b>RefSeq ORF:</b>	2283 bp
<b>Locus ID:</b>	84899
<b>UniProt ID:</b>	<a href="#">Q5T4D3</a>
<b>Cytogenetics:</b>	13q32.3
<b>Domains:</b>	TPR
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	84.8 kDa
<b>Gene Summary:</b>	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 RC221928