

Product datasheet for **RC210854**

TMTC2 (NM_152588) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMTC2 (NM_152588) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMTC2
Synonyms:	IBDBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC210854 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTGCAGAGTTGGTGAGCAGCGCTCTGGGGCTCGCCTTGATCTCAACACCCTGAGTGGGATTCTT
 GCTATGATGACAGCCGTGCTATCAAGACTAATCAGGACCTTCTCCAGAACTCCATGGACGCACATTTT
 CTAACAATGATTTTTGGGGGACTCTTCTAACCCACAGTGGCAGCCACAAGTCTACCGGCCACTCTGCACT
 CTTTCTTTTCGCCTGAACCATGCCATTGGAGGGTTGAATCCCTGGAGCTACCATCTTGCTCAATGTCTGT
 TGCATGCAGCAGTCACTGGTCTCTTCAAGCTTCTCCAAGATCCTCCTTGGTATGGATACTGGACATT
 CATGGCTGGCTTGATGTTTGTCTTCTACCCATTACACGGAGGCAGTGGCAGGAATCGTGGGACGAGCC
 GATGTCGGGGCCAGTCTTCTTCTCCTCTCCTTGTCTGCTACATTAACACTGTTCTACAAGAGGCT
 ACTCAGCCAGAACCTGGGGCTGGTTCTGGGGTCAGGACTGTGCGCAGGATGCAGCATGTTGTGGAAGGA
 ACAAGGAGTGACTGTTCTCGCAGTTTCAGCAGTTTATGATGTCTTTGTCTTTCACAGGCTGAAAAATAAA
 CAGATATTACCTACCATTACAAAAGGAAGAAGTGTGCGTTTTCTAAGCATTAGTTTGTAATTTTCT
 GGGGTTCTCCCTTTTGGGTGCCCGGTTATACTGGATGGGAAACAACCCCAAGCTTTTCCAACCTCGGA
 CAACCCCGCTGCTGATTCGGACAGCCTCCTCACCCGACTCTCACCTTCTTACTTGGCAACCAAGAAC
 CTCTGGCTGTTGCTATGTCCAGATACCCTCAGTTTTGATTGGTCAATGGATGCTGTGCCTCTGCTCAAAA
 CAGTTTGTGACTGGAGAAACCTACACACTGTGGCCTTCTATACTGGACTCCTTCTCCTTGGCTACTATGG
 TTTGAAGAGCCCGAGCGTAGACAGAGAAATGCAATGGGAAAAGTGAACAAATGGCAAGCAGAATGCAAA
 GGACATAGCTGCCTTTCAGATGTGGAGTACCAGAACTCAGAGACTAAGTCCAGCTTTCATCCAAAGTAG
 AAAATGGCATTAAAAACGATGTATCACAGAGAACCAGCTTCTTCTACGGAGAACATTGTTGTTCTGTC
 TTTATCTTTGTTAATCATACCCTTTGTTCTGCCACGAACCTGTTTTTCTATGTCGGCTTTGTAATTGCA
 GAGCGAGTATTATATATTCCTAGTATGGGCTTCTGCCTACTGATTACAGTGGGCGTAGAGCCCTTATG
 TCAAAGTCCAAAAGCGGTTCTCAAGAGCTTGATTTTTATGCTACAGCTACACTAATTGTTTTTTATGG
 ACTCAAGACTGCGATCAGGAATGGAGACTGGCAGAATGAGGAAATGCTTTATAGATCAGGGATAAAAGTA
 AACCCAGCTAAAGCATGGGGTAACCTTGGAAATGTTCTGAAGAGTCAGAGCAAAATTTCTGAAGCTGAAA
 GCGCCTATAGAAATGCTTTGACTACCGCAGCAACATGGCTGACATGCTTTATAATTTAGGGCTACTTCT
 CCAGGAGAACAGCAGGTTTGCAGAAGCACTACATTATTATAAATGGCCATTGGGAGCAGGCCTACCCTG
 GCTTCTGCATATTTAAATACCGTATTATTCTAATGAACCAAGGAAGGACGGAAGAAGCCCGACGGACAT
 TCTTAAAGTGTTCGGAGATCCCAGATGAAAACCTAAAGGACCCTCATGCACACAAGAGCTCTGTTACCAG
 TTGTTTGTACAACCTAGGAAAGCTGTATCATGAGCAGGGACACTATGAGGAAGCCCTTAGTGATACAAG
 GAAGCAATTCAGAAAATGCCAAGGCAGTTTGGCCACAGAGCTTGTACAACATGATGGGTGAAGCATATA
 TGCGTTTAAAGCAAACCTCCCGAAGCAGAGCATTGGTATATGGAATCACTGAGATCCAAGACTGACCACAT
 CCCTGCTCATCTCACCTATGGGAAGCTGCTAGCTCTAACAGGTCGTAAGAGTGAGGCTGAAAAGCTCTTC
 TTGAAGGCTATTGAGCTGGATCCCACCAAAGGAAACTGTTACATGCATTATGGTCAGTTTCTTCTGGAAG
 AAGCTCGTCTCATAGAAGCAGCTGAGATGGCAAAAAAGCAGCTGAACTAGACAGCACAGAGTTTGATGT
 TGCTTTCAATGCTGCCACATGCTCAGACAGGCTAGCCTCAATGAAGCAGCTGAGAAGTATTATGATCTG
 GCAGCCAGGCTGAGGCCAATTATCCGGCTGCTTTGATGAACCTGGGAGCCATTCTGCACCTCAATGGCA
 GACTCCAGAAGGCCGAGGCCAACTACCTGCGGGCCCTGCAGCTCAAGCCAGACGATGTCATCACACAGTC
 CAATCTCCGCAAACCTGTGGAACATCATGGAAAAACAAGGCTTAAAGACTTCTAAGACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210854 protein sequence
Red=Cloning site Green=Tags(s)

MIAELVSSALGLALYLNTLSADFCYDDSRRAIKTNQDLLPETPWTHIFYNDFWGTLTTHSGSHKSYRPLCT
LSFRLNHAIGGLNPWSYHLVNVLLHAAVTGLFTSFKILLGDGYWTFMAGLMFASHPIHTEAVAGIVGRA
DVGASLFFLLSLLCYIKHCSTRGYSARTWGWFLGSGLCAGCSMLWKEQGVTVLAVSAVYDVFVHRLKIK
QILPTIYKRKNLSLFLSISLLIFWGSSLLGARLYWMGNKPPSFSNSDNPAAADSLLTRTLFFFYLPSTKN
LWLLLCPTLSFDWMDAVPLLKTVCDWRNLHTVAFYTGLLLLAYYGLKSPSVDRECNGKVTNGKQAN
GHSCLSDEVYQNSETKSSFASKVENGIKNDVSQRTQLPSTENIVVLSLILLIIPFVPATNLFFYVGFVIA
ERVLYIPSMGFCLLITVGARALYVKVQKRFLKSLIFYATATLIVFYGLKTAIRNGDWQNEEMLYRSGIKV
NPAKAWGNLGNVLKSQSKISEAESAYRNALYYRSNMADMLYNLGLLLQENSRAEALHYYKLAIGSRPTL
ASAYLNTGIILMNQGRTEEARRFLKCSEIPDENLKDPHAKSSVTSLYNLGLKYHEQGHYEEALSVYK
EAIQKMPRQFAPQSLYNMMGEAYMRLSKLPEAEHWYMESLRSKTDHIPAHLTYGKLLAL TGRKSEAEKLF
LKAIELDPTKGNCYMHYQQFLLEEARLIEAAEMAKKAAELDSTEFDVVFNAAHMLRQASLNEAAEKYYDL
AARLRPNYPAALMNLGAILHLNGRLQKAEANYLRALQLKPDDVITQSNLRKLNIMEKQGLKTSKT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6592_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:


ACCN: NM_152588

ORF Size: 2508 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_152588.3](#)

RefSeq Size: 4855 bp

RefSeq ORF: 2511 bp

Locus ID: 160335

UniProt ID: [Q8N394](#)

Cytogenetics: 12q21.31

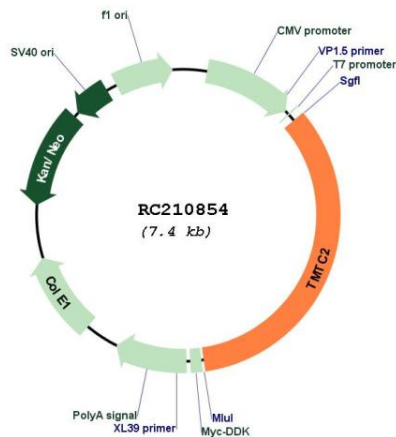
Domains: TPR

Protein Families: Transmembrane

MW: 94.1 kDa

Gene Summary: The protein encoded by this gene is an integral membrane protein localized to the endoplasmic reticulum (ER). The encoded protein contains many tetratricopeptide repeats, sequences known for being involved in protein-protein interactions. This protein binds both the calcium uptake pump SERCA2B and the carbohydrate-binding chaperone calnexin, and it appears to play a role in calcium homeostasis in the ER. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RC210854