

Product datasheet for **RG210854**

TMTC2 (NM_152588) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMTC2 (NM_152588) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMTC2
Synonyms:	IBDBP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG210854 representing NM_152588
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGATTGCAGAGTTGGTGAGCAGCGCTCTGGGGCTCGCCTTGATCTCAACACCCTGAGTGCGGATTCT
 GCTATGATGACAGCCGTGCTATCAAGACTAATCAGGACCTTCTCCAGAACTCCATGGACGCACATTTT
 CTACAATGATTTTTGGGGGACTCTTCTAACCCACAGTGGCAGCCACAAGTCTACCGGCCACTCTGCACT
 CTTTCTTTTCGCCTGAACCATGCCATTGGAGGGTTGAATCCCTGGAGCTACCATCTTGCTCAATGTCTGT
 TGCATGCAGCAGTCACTGGTCTCTTCAAGCTTCTCCAAGATCCTCCTGGTGATGGATACTGGACATT
 CATGGCTGGCTTGATGTTTGTCTCTACCCATTACACGGAGGCAGTGGCAGGAATCGTGGGACGAGCC
 GATGTCGGGGCCAGTCTTCTTCTCCTCTCCTTGCTGCTACATTAACACTGTTCTACAAGAGGCT
 ACTCAGCCAGAACCTGGGGCTGGTTCCTGGGGTCAAGACTGTGCGCAGGATGCAGCATGTTGTGAAGGA
 ACAAGGAGTGACTGTTCTCGCAGTTTCAGCAGTTTATGATGTCTTGTCTTTCACAGGCTGAAAAATAAA
 CAGATATTACCTACCATTTACAAAAGGAAGAACTTGTCTGCTTTTCTTAAGCATTAGTTTGTAAATTTCT
 GGGGTTCTCTCCCTTTGGGTGCCCGTTATACTGGATGGGAAACAAACCACCAAGCTTTTCCAACCTCGGA
 CAACCCCGCTGCTGATTCGGACAGCCTCCTCACCCGACTCTCACCTTCTTCTACTTGCCAAACCAAGAAC
 CTCTGGCTGTTGCTATGTCCAGATACCCCTCAGTTTTGATTGGTCAATGGATGCTGTGCCTCTGCTCAAAA
 CAGTTTGTGACTGGAGAAACCTACACACTGTGGCCTTCTATACTGGACTCCTTCTCTTGCTACTATGG
 TTTGAAGAGCCCGAGCGTAGACAGAGAAATGCAATGGGAAACTGTAAACAAATGGCAAGCAGAATGCAAT
 GGACATAGCTGCCTTTCAGATGTGGAGTACCAGAACTCAGAGACTAAGTCCAGCTTTCATCCAAAGTAG
 AAAATGGCATTAAAAACGATGTATCACAGAGAACCAGCTTCTTCTACGGAGAACATTGTTGTTCTGTCTC
 TTATCTTTGTTAATCATACCTTTTGTCTGCCACGAACCTGTTTTCTATGTCGGCTTTGTAATTGCA
 GAGCGAGTATTATATATTCCTAGTATGGGCTTCTGCCTACTGATTACAGTGGGCGCTAGAGCCCTTATG
 TCAAAGTCCAAAAGCGGTTCTCAAGAGCTTGATTTTTATGCTACAGCTACACTAATTGTTTTTTATGG
 ACTCAAGACTGCGATCAGGAATGGAGACTGGCAGAATGAGGAAATGCTTTATAGATCAGGGATAAAAGTA
 AACCCAGCTAAAGCATGGGGTAACCTTGGAAATGTTCTGAAGAGTCAGAGCAAAATTTCTGAAGCTGAAA
 GCGCCTATAGAAATGCTTTGTAACCGCAGCAACATGGCTGACATGCTTTATAATTTAGGGCTACTTCT
 CCAGGAGAACAGCAGGTTTGCAGAAGCACTACATTATTATAAATTGGCCATTGGGAGCAGGCCTACCCTG
 GCTTCTGCATATTTAAATACCGGTATTATTCTAATGAACCAAGGAAGGACGGAAGAAGCCCGACGGACAT
 TCTTAAAGTGTTTCGGAGATCCCAGATGAAAACCTAAAGGACCCTCATGCACACAAGAGCTCTGTTACCAG
 TTGTTTGTACAACCTAGGAAAGCTGTATCATGAGCAGGGACACTATGAGGAAGCCCTTAGTGATACAAG
 GAAGCAATTACAGAAAATGCCAAGGCAGTTTGCCCCACAGAGCTTGTAACATGATGGGTGAAGCATATA
 TGCGTTTAAGCAAACCTCCCGAAGCAGAGCATTGGTATATGGAATCACTGAGATCCAAGACTGACCACAT
 CCCTGCTCATCTCACCTATGGGAAGCTGCTAGCTCTAACAGGTCGTAAGAGTGAGGCTGAAAAGCTCTTC
 TTGAAGGCTATTGAGCTGGATCCCACCAAGGAAACTGTTACATGCATTATGGTCAGTTTCTTCTGGAAG
 AAGCTCGTCTCATAGAAGCAGCTGAGATGGCAAAAAAGCAGCTGAAGTACAGCAGCAGAGTTTGATGT
 TGTCTTCAATGCTGCCACATGCTCAGACAGGCTAGCCTCAATGAAGCAGCTGAGAAGTATTATGATCTG
 GCAGCCAGGCTGAGGCCTAATTATCCGGCTGCTTTGATGAACCTGGGAGCCATTCTGCACCTCAATGGCA
 GACTCCAGAAGGCCGAGGCCAACTACCTGCGGGCCTGCAGCTCAAGCCAGACGATGTCATCACACAGTC
 CAATCTCCGAAACTGTGGAACATCATGAAAAACAAGGCTTAAAGACTTCTAAGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210854 representing NM_152588
 Red=Cloning site Green=Tags(s)

MIAELVSSALGLALYLNTLSADFCYDDSRRAIKTNQDLLPETPWTHIFYNDFWGTLTHSGSHKSYRPLCT
 LSFRLNHAIGGLNPWSYHLVNVLLHAAVTGLFTSFKILLGDGYWTFMAGLMFASHPIHTEAVAGIVGRA
 DVGASLFFLLSLLCYIKHCSTRGYSARTWGWFLGSGLCAGCSMLWKEQGVTVLAVSAVYDVFVHRLKIK
 QILPTIYKRKNLSLFLSISLLIFWGSSLLGARLYWMGNKPPSFSNSDNPAADSDSLLTRTLTFFYLPTKN
 LWLLCPDTLSFDWSMDAVPLLKTVCWRLHTVAFYTGLLLAYYGLKSPSVDRECNGKTVTNGKQAN
 GHSCLSDEVYQNSETKSSFASKVENGIKNDVSQRTQLPSTENIVVLSLSLLIIPFVPATNLFFYVGFVIA
 ERVLYIPSMGFCLLITVGARALYVKVQKRFLKSLIFYATATLIVFYGLKTAIRNGDWQNEEMLYRSGIKV
 NPAKAWGNLGNVLKSQSKISEAESAYRNALYYRSNMADMLYNLGLLLQENSRAEALHYYKLAIGSRPTL
 ASAYLNTGIILMNQGRTEEARRFLKCSEIPDENLKDPHAKSSVTSLYNLGLKYHEQGHYEEALSVYK
 EAIQKMPROQAPQSLYNMMGEAYMRLSKLPEAEHWYMESLRSKTDHIPAHLTYGKLLALTGRKSEAEKLF
 LKAIELDPTKGNCYMHYQQFLLEEARLIEAAEMAKKAAELDSTFDVVFNAAHMLRQASLNEAAEKYYDL
 AARLRPNYPAALMNLGAILHLNGRLQKAEANYLRALQLKPDDVITQSNLRKLWNIMEKQGLKTSKT

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

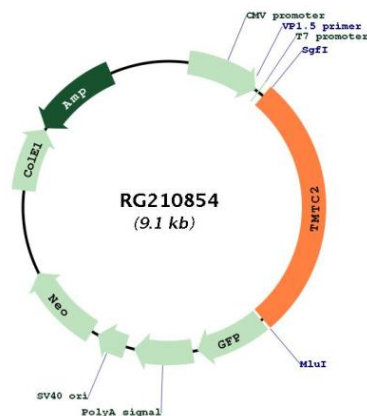
Cloning Scheme:



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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_152588.1, NP_689801.1</u>
RefSeq Size:	4855 bp
RefSeq ORF:	2511 bp
Locus ID:	160335
UniProt ID:	<u>Q8N394</u>
Cytogenetics:	12q21.31
Domains:	TPR
Protein Families:	Transmembrane
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 RG210854