

Product datasheet for **RG209214**

TMEM117 (NM_032256) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM117 (NM_032256) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM117
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209214 representing NM_032256
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTAAAGACTTTCGTTACTATTTCCAGCATCCCTGGTCTCGCATGATTGTGGCTTACTTGGTATCT
 TCTTTAACTTCTTAATATTTGCGGAGGACCCAGTTTCTCATAGCCAAACAGAAGCCAATGTTATTGTTGT
 TGGAAACTGTTTTTCATTTGTTACAAATAAATACCCTAGAGGAGTTGGCTGGAGGATTTTGAAGGTGCTT
 CTATGGCTACTTGCCATTCTCACAGGACTAATAGCTGGCAAATTTCTGTTCCATCAGCGTTTGTGGTCT
 AGTTGCTCCGATTAATAATGTTTCGAGAAGATCATGGGTCGTGGATGACAATGTTCTTCAGCACAATTCT
 CTTTCTTTCATATTTTCTCACATATAACAACACGATTCTTCTAATGGATGGGAACATGGGAGCATATATC
 ATTACAGACTATATGGGCATCCGAAATGAAAGTTTCATGAAATTAGCTGCAGTAGGGACCTGGATGGGG
 ACTTTGTCACAGCTTGGATGGTCACTGATATGATGCTTCAGGACAAACCCATCTCTGACTGGGGAAATC
 AGCAAGAGCTTTCTGGAAGAAAGGAAATGTTAGGATCACTTTATCTGGACAGTTCTTTTACTCTGACG
 TCTGTGGTTGACTTGTGATTACAACGGACTGGATCAGCTGGGACAAGCTGAATCGGGGATTTTTCGCCA
 GTGATGAAGTTTCCAGAGCATTCTTGCTTCTTTATCTTGGTCTTTGACCTTCTATTGTGATGCAGGA
 CTGGGAATTTCCACATTTTCATGGGAGATGTTGATGTAATCTCCCTGTTTGCACACCCCTCACATGCAG
 TTCAAGATTCCTTTCTCCAGAAAATCTTCAAGGAGGAATATCGTATTCACATAACAGGCAAATGGTTTA
 ACTATGGAATTATCTTCTCGTCTTGATTTTGGATCTTAATATGTGGAAGAACCAATATTTTATAAACC
 TCATGAATATGGCAATATATCGGCCCGGGCAGAAGATATACAGTGAAGACTCAGAAAAGTTTAAAA
 GATTTGAACAGAACCAAGCTATCTGGGAATGGAGTCCAATCACACTAACCCCTCGGACTAATAAAACAT
 ATGTTGAGGGAGACATGTTCTTACACAGCAGTTTCATAGGAGCAGTCTTGATGTCAAGTGTCTGGCCTT
 TGTTCGAAGCTGATAGCCTTTGTGTGGTTTGGATTCTTTATTTGGTTCTTTGGACGATTTTGAATAAT
 GAGCCACGCATGGAGAATCAAGCAAAACTTACACTCGCATGAAAAGAAAATCTCCATCAGAACATAGCA
 AAGACATGGGAATCACTCGAGAAAACACCCAGGCTTCAAGTAGAAGACCCCTTGAATGACCCTTCTTGGT
 TTGCATCAGGCTGACTTCAATGAGATCGTCTACAAGTCTTCCACCTAACCTCGGAAAACCTTGAGCTCA
 CAGTTGAACGAATCTACTAGTGAACAGAAGCTGATCAAGACCAACGACTTCTAAAAGTACACCTACGA
 AC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG209214 representing NM_032256
 Red=Cloning site Green=Tags(s)

MGKDFRYFQHPWSRMIVAYLVIFFNFLIFAEDPVSHSQTEANVIVVGNCF SFVTNKYPRGVGWIRILKVL
 LWLLAILTGLIAGKFLFHQRLFGQLRLKMFREDHGSWMTMFFSTILFLFIFSHIYNTILLMDGNMGAYI
 ITDYMGRNESFMKLAAGVTWMDGDFVTAWMVTDMMQLDKPYPDWGSARAFWKKGNVRITLFWTVLFTLT
 SVVVLVITTDWISWDKLNRFPSDEVSRAFLASFILVFDLLIVMQDWEFPHFMGDVVDNPLGLHPTPHMQ
 FKIPFFQKIFKEEYRIHITGKWFNYGIIFLVLILDLNMWKNQIFYPHEYGYIGPGQKIYTVKDESLSK
 DLNRTKLSWEWRSNHTNPRNTKYVEGDMFLHSRFIGASLDVKCLAFVPSLIAFVWFGFFIWFGRFLKN
 EPRMENQDKTYTRMKRSPSEHSKDMGITRENTQASVEDPLNDPSLVCIRSDFNIEIVYKSSHLTSENLS
 QLNESTSATEADQDPTTSKSTPTN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032256

ORF Size: 1542 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_032256.3](#)

RefSeq Size: 2706 bp

RefSeq ORF: 1545 bp

Locus ID: 84216

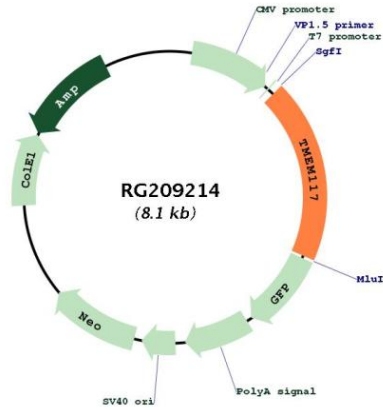
UniProt ID: [Q9H0C3](#)

Cytogenetics: 12q12

Protein Families: Transmembrane

Gene Summary: Involved in endoplasmic reticulum (ER) stress-induced cell death pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209214