

## Product datasheet for RC237779

### TMEM117 (NM\_001286213) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMEM117 (NM\_001286213) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TMEM117  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237779 representing NM\_001286213  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGGCATCCGAAATGAAAGTTTCATGAAATTAGCTGCAGTAGGGACCTGGATGGGGACTTTGTCCACAG  
CTTGGATGGTCACTGATATGATGCTTCAGGACAAACCCTATCCTGACTGGGAAAATCAGCAAGAGCTTT  
CTGGAAGAAAGGAAATGTTAGGATCACTTTATTCTGGACAGTTCTTTTTACTCTGACGCTGTGGTTGTA  
CTTGTGATTACAACGGACTGGATCAGCTGGGACAAGCTGAATCGGGGATTTTTGCCAGTGATGAAGTTT  
CCAGAGCATTCTTGCTTCTTTATCTTGGTCTTTGACCTTCTTATTGTGATGCAGGACTGGGAATTCCT  
ACATTTTCATGGGAGATGTTGATGTAATCTCCCTGGTTTGCACACCCCTCACATGCAGTTCAAGATTCT  
TTCTTCCAGAAAATCTTCAAGGAGGAATATCGTATTCACATAACAGGCAAATGGTTTAACTATGGAATTA  
TCTTCTCGTCTTGATTTTGGATCTTAATATGTGAAGAACCAAATATTTTATAAACCTCATGAATATGG  
GCAATATATCGGCCCGGGCAGAAGATATACAGTGAAAGACTCAGAAAGTTTAAAGATTTGAACAGA  
ACCAAGCTATCCTGGGAATGGAGGTCCAATCACACTAACCCCTCGGACTAATAAACATATGTTGAGGGAG  
ACATGTTCTTACACAGCAGGTTTATAGGAGCCAGTCTTGATGTCAAGTGTCTGGCCTTTGTCCAAGCCT  
GATAGCCTTTGTGTGGTTTGGATTCTTTATTTGGTTCTTTGGACGATTTTAAAAATGAGCCACGCATG  
GAGAATCAAGACAAAACCTTACACTCGCATGAAAAGAAAATCTCCATCAGAACATAGCAAAGACATGGGAA  
TCACTCGAGAAAACCCAGGCTTCAGTAGAAGACCCCTTGAATGACCCTTCTTTGGTTTGCATCAGGTC  
TGACTTCAATGAGATCGTCTACAAGTCTCCACCTAACCTCGGAAAACCTTGAGCTCACAGTTGAACGAA  
TCTACTAGTGCAACAGAAGCTGATCAAGACCAACGACTTCTAAAAGTACACCTACGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237779 representing NM\_001286213  
Red=Cloning site Green=Tags(s)

MGIRNESFMKLAAVGTWMGDFVTAWMVTDMMLQDKPYPDWGKSARAFWKKGNVRITLFWTVLFTLTSVVV  
 LVITTDWISWDKLNRFPSDEVSRAFLASFILVFDLLIVMQDWEFPHMGDVDVNLPLGHTPHMQFKIP  
 FFQKIFKEEYRIHITGKWFNYGIIFLVLILDLMWKNQIFYKPEHYGQYIGPGQKIYTVKDSESLKDLNR  
 TKLSWEWRSNHTNPRTNKYVEGDMFLHSRFIGASLDVKCLAFVPSLIAFVWFGFFIWFGRFLKNEPRM  
 ENQDKTYTRMKRKPSEHSKDMGITRENTQASVEDPLNDPSLVCIRSDFNEIVYKSSHLTSENLSSQLNE  
 STSATEADQDPTTSKSTPTN

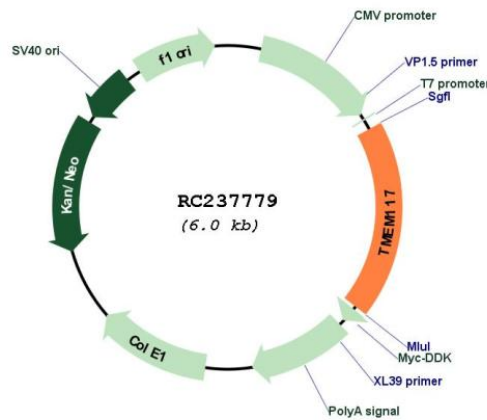
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001286213

|                               |   |
|-------------------------------|---|
| <b>ORF Size:</b>              | 1110 bp   |
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | 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_001286213.1</a> , <a href="#">NP_001273142.1</a>   |
| <b>RefSeq Size:</b>           | 2871 bp   |
| <b>RefSeq ORF:</b>            | 1113 bp   |
| <b>Locus ID:</b>              | 84216   |
| <b>UniProt ID:</b>            | <a href="#">Q9H0C3</a>  |
| <b>Cytogenetics:</b>          | 12q12   |
| <b>Protein Families:</b>      | Transmembrane   |
| <b>MW:</b>                    | 43.6 kDa  |
| <b>Gene Summary:</b>          | Involved in endoplasmic reticulum (ER) stress-induced cell death pathway.[UniProtKB/Swiss-Prot Function]  |