

## Product datasheet for **RR216823**

### **Tmem117 (NM\_001271239) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Tmem117 (NM_001271239) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem117
Synonyms:	RGD1562562
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR216823 representing NM\_001271239  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGTAAAGACTTCCGTTACTATTTCCAGCATCCTTGGTCTCGCATGATCGTGGCTTACCTGGTCATCT  
 TCTTTAACTTCTTGATATTCGCGGAGGACCCAGTCTCTCACAGCCAAACAGAAGCCAATGTTATTGTTGT  
 TGGAAACTGTTTTTCGTTTCGTAACAAATAAATACCCTAGAGGAGTTGGCTGGAGGATTTTGAAGGTGCTT  
 CTATGGCTACTGGCCATTCTCATAGGACTGATTGCTGGCAAGTTTCTGTTCCATCAGCGTTATTTGGTC  
 AGTTGCTCCGGTTAAAAATGTTCCGTGAAGACCACGGGTCGTGGATGACGATGTTCTTCAGCAGCATTCT  
 GTTTCTTTCATCTTCTCTCACATATAACAACACAGTCTTCTGATGGACGGGAACATGGGAGCATATCTC  
 ATCACAGACTACATGGGCATCCGGAATGAAAGTTTCATGAACTAGCTGCTGTAGGAACCTGGATGGGGG  
 ACTTCGTCACAGCCTGGATGGTCACCGATATGATGCTTCAGGACAAGCCCTACCCTGACTGGGGGAAGTC  
 TGCAAGAGCTTTCTGGAAGAAAGCAACGTGCGGATCATTTTGTCTGGACTGTCTCTTACCCTGACC  
 TCCGTGGTGGTACTTGTATCACAAACCGACTGGATCAGCTGGGACAACTGAACCGTGGATTTTGGCCA  
 GTGATGAGGTTTCCAGGGCCTTCTCGTCTTTTCATCTTGGTCTTTGACCTCCTTATCGTGATGCAGGA  
 CTGGGAATTTCCACACTTCATGGGCGATGTTGACGTGAACCTCCCGGGTTGCACACTCCTCACATGCAG  
 TTCAAGATTCCCTTCTTCCAGAAGATCTTCAAGGAGGAATACCGCATTACATAACAGGTAATGGTTTA  
 ACTACGGAATCATCTTCCCTCGTCTTGATTTGGACCTGAACATGTGGAAGAACCAAAATTTTACAAACC  
 TCATGAATATGGACAGTATTTGGCCCAGGGCAGAAGATATACACAGTGAAGGACTCTGAAAGTTTAAAG  
 GATTTAAACAGAACCAAGCTATCTGGGAATGGCGGTCGAATCACACTAATCCTCACACTAACAAAACCT  
 ATGTTGAAGGCGACATGTTCTTACACAGCAGTTTACAGGGGCCAGCCTAGATGTCAAGTGTCTGGCTTT  
 TGTTCCAAGTCTGATAGCTTTCGTGTGGTTTGGATTCTTTATTTGGTTCTTTGGACGGTTTCTAAAGAAC  
 GAGCAAGGGATGGAGAATCAAGATAAACTTACACTCGCATGAAAAGAAAATCACCTCGGAACACAGCA  
 AAGACATGGGCATCACTCGAGAAAGCACCCAGGTCTCCGTGGAAGACCCGCTGAACGACCCGCCCTTGGT  
 TTGCATCAGGTCGACTTAAACGAGATAGTCTACAAGTCTCCCATCTGACATCGGAAAACCTTGAGCCTG  
 CATCTGAAGGAGTCTACCAGTGCAGCGGAGGCCGATCAAGACCCAGCGCCTCTCCGAGTCTGCGGACGG  
 AC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR216823 representing NM\_001271239  
 Red=Cloning site Green=Tags(s)

MGKDFRYFFQHPWSRMIVAYLVIFFNLFIFAEDPVSHSQTEANVIVVGNCFSFVTNKYPRGVGWRIKVL  
 LWLLAILIGLIAGKFLFHQRLFGQLRLKMFREDHGSWMTMFFSTILFLFIFSHIYNTVLLMDGNMGAYL  
 ITDYMGIRNESFMKLAAVGTWMGDFVTAWMVTDMMLQDKPYPDWGKSARAFWKGNVRIILFWTVLFTLT  
 SVVVLVITTDWISWDKLNRFPSDEVSRAFLASFILVFDLLIVMQDWEFPHFMGDVDVNLPLGHTPHMQ  
 FKIPFFQKIFKEEYRIHITGKWFNYGIIIFLVILDLNMWKNQIFYPHEYGQYIGPGQKIYTKDSESLK  
 DLNRTKLSWEWRSNHTNPHTNKTYVEGDMFLHSRFTGASLDVKCLAFVPSLIAFVWFGFFIWFVFRFLKN  
 EQGMENQDKTYTRMKRKSPEHSDKMGITRESTQVSVEDPLNDPPLVCIRSDFNEIVYKSSHLTSENLSL  
 HLKESTSAAEADQDPAASPSLRD

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001271239

**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\\_001271239.1](#), [NP\\_001258168.1](#)

**RefSeq Size:** 2781 bp

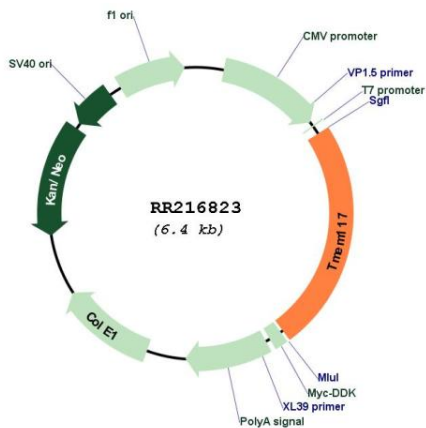
**RefSeq ORF:** 1545 bp

**Locus ID:** 500921

**Cytogenetics:** 7q35

MW: 60.1 kDa

Product images:



Circular map for RR216823