

## Product datasheet for **RR200612**

### **Tmem147 (NM\_001038494) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tmem147 (NM\_001038494) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tmem147  
**Synonyms:** RGD1304706  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR200612 representing NM\_001038494  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCTGTTCCACTTCGGGAAGTCTCGCCCTCGCCTACTTCCCTATTTTCATCACGTACAAATGCA  
GCGGCCTGTCTGAGTACAACGCCTTCTGAAATGCGTCCAGGCCGGGTACCTACCTCTTTGTGCAGT  
ATGTAAGATGTTGTTCTTGGCCACTTTCTCCCCACCTGGGAAGGGGCATCTATGACTTCATTGGGGAA  
TTCATGAAGGCCAGTGTGGATGTGGCAGACCTGATAGGCCTAAACCTTGTTCATGTCCCGAATGCAGGCA  
AGGGGGAGTACAAGATCATGGTTGCTGCCTGGGCTGGGCCACTGCTGAAGTCAATATGTCCCGCTGCAT  
CCCTCTCTGGGTGGGAGCCCGAGGCATTGAATTTGACTGGAAATATATCCAGATGAGCATTGACTCCAAC  
ATCAGTCTGGTCCACTACATTGTTGCATCAGCTCAGGTCTGGATGATAACACGCCTATGACCTGTACCACA  
CCTTCCGGCCTGCTGTTCTTCTCCTAATGTTCTTAGTGTCTACAAGCCTTTGTTCATGGAGACCTTTGT  
CCATCTGCTCCTTGGGTAGTTGGACAGCGTCTGGCCCGGCAGTGGTGACAGGATTGCTGGCCCTC  
AGCACCTTGGCCCTGTATGTTGCTGTTGCAATGTACACTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR200612 representing NM\_001038494  
 Red=Cloning site Green=Tags(s)

MTLFHFGNCFALAYFPYFITYKCSGLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGE  
 FMKASVDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSN  
 ISLVHYIVASAQVWMITRYDLYHTFRPAVLLLMFLSVYKAFVMTFVHLCSLGSWTALLARAVVTGLLAL  
 STLALYVAVVNVHS

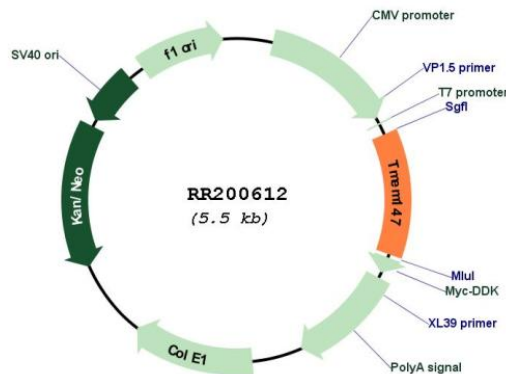
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001038494

**ORF Size:** 672 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_001038494.1</a> , <a href="#">NP_001033583.1</a>
<b>RefSeq Size:</b>	881 bp
<b>RefSeq ORF:</b>	675 bp
<b>Locus ID:</b>	292792
<b>UniProt ID:</b>	<a href="#">Q2TA63</a>
<b>Cytogenetics:</b>	1q21
<b>MW:</b>	25.3 kDa
<b>Gene Summary:</b>	Acts as a negative regulator of CHRM3 function, most likely by interfering with its trafficking to the cell membrane (By similarity). Negatively regulates CHRM3-mediated calcium mobilization and activation of RPS6KA1/p90RSK activity (By similarity).[UniProtKB/Swiss-Prot Function]