

## Product datasheet for **RR216184**

### **Tmem176b (NM\_001270589) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tmem176b (NM\_001270589) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tmem176b  
**Synonyms:** Lr8; Torid  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR216184 representing NM\_001270589  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCCAAGCCACAGTGACTGTGGATGGAGTCAAAGTGACTTCCACACGCCCTCAGTCTGCCAGATCA  
GCATCCACATCCACCACAAATCAGCCTTGGAGCAGCTGCTGGGAGCTATGGCTCCCTGAAGAAGTTTCT  
CTCCTACCCTCAGGCCAGAATCCACTATGGGCAGCTGTCTCTAGGGGTGACCCAGATATTGCTGGGGCTT  
GTGAGCTGTGTTCTTGGAGTGTGTCTCTACTTCGGGCCTTGGACAGAGCTGTGTGCCTCTGGTTGTGCCT  
TCTGGTCAGGGTCTGTGGCAATTTTGGCTGGAGTGGGTATCGTCATCCATGAGATGGGACAGGAAAAC  
GTCCGGCCACATATCACGGCTGCTCCTCCTGGCTTGTCTGCTACAGCTGCAGCTGCTACCGTTATGGGT  
GTGAAAAGCCTCATCTGGCAAACAGTGCTTCTACTACTTCGAGATCAGTTCCACATGTGACTCCTTAC  
AACCAAGCATTGTCGATAGGTTTCGGTCAGTGCATTCACTGACGACTCAGACTGGAGGACAGAGAGGTG  
CAGAGAGTACCTGAGAATGATGATGAACTTGTTCCTGGCATTCTGCATCCTGTTACGGTTATCTGTATC  
CTGAAGATTGTTGTGTCTGTGGCTTCCCTGGGACTAAGTCTCCGGAGTATGTGTGGCCGGAACCCAGG  
TCTTGAATGATGAAGAGACAGAGAAGCTTCTTGGGGGGATTTCGGCACCGGCCTCCCGACCAAAGA  
GAAGATTCTGTTACCCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR216184 representing NM\_001270589  
 Red=Cloning site Green=Tags(s)

MAQATVTVDGVKVTSTRPQSAQISIIHHKSALEQLLGAMGSLKKFLSYPQARIHYGQLSLGVTQILLGL  
 VSCVLGVCLYFGPWTELCASGCAFWSGSVAILAGVGIVIHMQGKLSGHSRLLLLACSATAAAATVMG  
 VKSLIWQTSASYFEISSTCDSLQPSIVDRFRSVRFTDDSDWRTERCREYL RMMNLF AFCILFTVICI  
 LKIVVSVASLGLSLRSMCGRNSQVLNDEETEKLLGGDSAPASPTKEKIPVPT

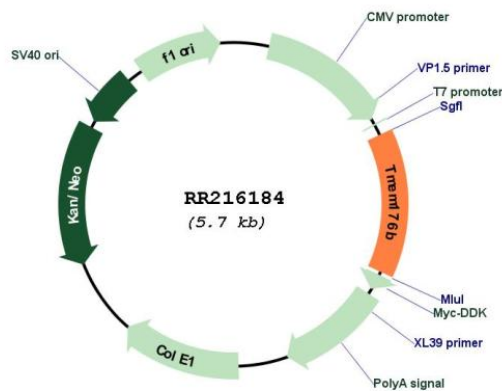
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001270589  
**ORF Size:** 789 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_001270589.1</a> , <a href="#">NP_001257518.1</a>
<b>RefSeq Size:</b>	1680 bp
<b>RefSeq ORF:</b>	792 bp
<b>Locus ID:</b>	171411
<b>UniProt ID:</b>	<a href="#">Q925D4</a>
<b>Cytogenetics:</b>	4q24
<b>MW:</b>	28.5 kDa
<b>Gene Summary:</b>	Required for the development of cerebellar granule cells (By similarity). May play a role in the process of maturation of dendritic cells.[UniProtKB/Swiss-Prot Function]