

## Product datasheet for **RR207653**

### Tmem159 (NM\_194354) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tmem159 (NM\_194354) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tmem159  
**Synonyms:** Tmem159  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR207653 representing NM\_194354  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCCGAGGAAGAGCCCCGAGTGTCTCCAGAGACTTACAGGAGCTGCAGAGGAAGCTGGGTTTGCTGT  
TAGAGTCTTTCCAGAATAACTCAAAGGTGGTTGCCTTTATGAAGTCCCCAGTGGGCCGGTTCCTGGACAG  
GCATCCGTTCTGTTCTCACCGTCTGATGTTTGTACCATGTCAGCCATCCCTGTTGGTTTCTCCTG  
CTCATCGTGGTGCTCACCTCCCTGGGTGCTCTTATGGGGCCATATTACTGGAAGGCCTGGTCATCTCTG  
TTTGTGGTCTCTCACTGCTCTGCATCCTCTGTGGCCTGGGCTTCGTATCGCTTGCCTGTGAGGGATAAC  
CATGATGTCTATGTGGTGGTCTCCTGCCTCATGAGCTACTGGTTTTCTCCAAGCAGGCCACCAACACAG  
CAACATGCCAACATCGACTCTCAGCTGGCTATGAAGTTCACAGAGTCTGAGAAGCTTGGCCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR207653 representing NM\_194354  
Red=Cloning site Green=Tags(s)  
MAEEPPSVSRDLQELQRKLGLLLESFQNNKVVAFMKSPVGRFLDRHPFLVLTVLMFVMTSAIPVGFFL  
LIVVLTSLGALMGAILLEGLVISVCGLSLLCILCGLGFVSLALSGITMMSYVVVSVCLMSYWFSPSRPPTQ  
QHANIDSQ LAMKFTESEKLG L

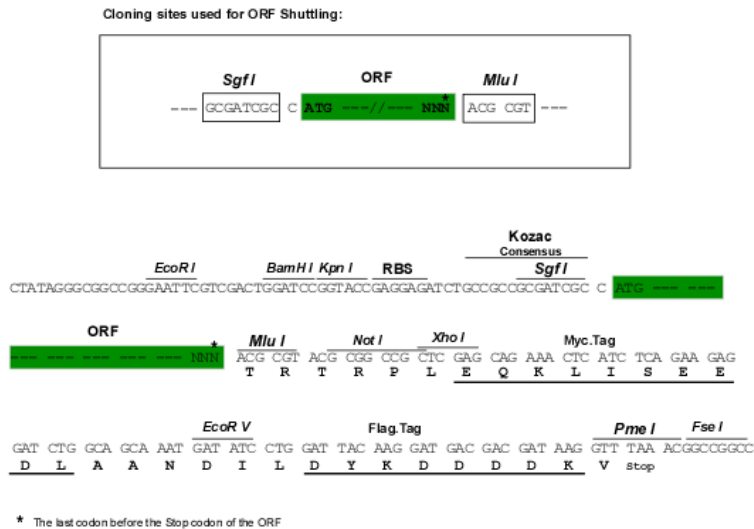
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

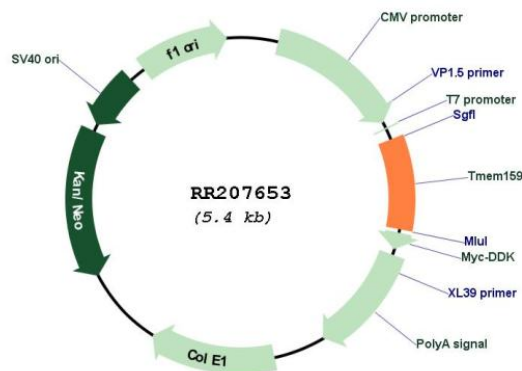


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_194354

ORF Size: 483 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.

<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>	<u>NM_194354.2, NP_919335.2</u>
<b>RefSeq Size:</b>	1397 bp
<b>RefSeq ORF:</b>	486 bp
<b>Locus ID:</b>	378467
<b>UniProt ID:</b>	<u>Q6UK00</u>
<b>Cytogenetics:</b>	1q36
<b>MW:</b>	17.6 kDa
<b>Gene Summary:</b>	Plays an important role in the formation of lipid droplets (LD) which are storage organelles at the center of lipid and energy homeostasis (By similarity). In association with BSCL2/seipin, defines the sites of LD formation in the endoplasmic reticulum (By similarity). [UniProtKB/Swiss-Prot Function]