

## Product datasheet for MR201512

### Tmem110 (BC024583) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tmem110 (BC024583) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tmem110  
**Synonyms:** 1810038N08Rik; 2310014H19Rik; AW554125; STIMATE  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR201512 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCTGCTCATTTATGTGGCGTACGCGCCGTCGGTGTCTTGGTGGAGTGGCAGCAGTGGGAATCCCTGC  
 GTTTTGGAGAATATGGAGACCCTCTGCAGTGGGGCCTGGGTAGGACAGTGGCCCTCTACATCGTGAT  
 CATGATCTTTGAAAAGTCCGTGGTCTTCATCGTCCTCCTACTCCAATGAAAAAGGTGGCCCTATTG  
 AATCCAATTGAAAACCCGACCTGAAGCTGGCCATCGTCATGCTGATAGTCCCCTCTTTGTCAATGCTT  
 TCATGTTCTGGGTAGTGGACAATTCCTCATGAGAAAGGGGAAGACGAAAGCTAAACTAGAAGAAAGAGG  
 AGCCAACCAGGACTCAAGGAATGGGAGCAAGGTTTCGCTACCGAAGGGCAGCATCCCATGAGGAGTCTGAG  
 TCTGAGATCCTGATCTCAGCTGACGACGAGATGGAGGAGTCTGACGCCGAGGAGGACCTCCGGAGACCTG  
 TAAAAAGAAGCACCGCTTCGGGCTGCCTGTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR201512 protein sequence  
 Red=Cloning site Green=Tags(s)

MLLIYVGVRAVGVLVEWQQWESLRFGEYGDPLQCGAWVGQCALYIVIMIFEKSVFIVLLILQWKKVALL  
 NPIENPDLKLAIIVLIPFFVNAFMFWVDNFLMRKGKTKAKLEERGANQDSRNGSKVRYRRAASHEESE  
 SEILISADDEMEESDAEEDLRPVKKKHRFGLPV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** BC024583

**ORF Size:** 522 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [BC024583](#), [AAH24583](#)

**RefSeq Size:** 1196 bp

**RefSeq ORF:** 524 bp

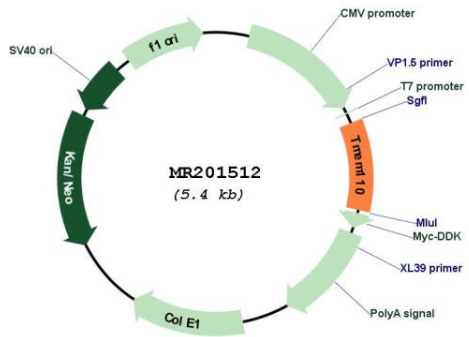
**Locus ID:** 69179

**Cytogenetics:** 14 B

**MW:** 20.1 kDa

**Gene Summary:** Acts as a regulator of store-operated Ca(2+) entry (SOCE) at junctional sites that connect the endoplasmic reticulum (ER) and plasma membrane (PM), called ER-plasma membrane (ER-PM) junction or cortical ER. SOCE is a Ca(2+) influx following depletion of intracellular Ca(2+) stores. Acts by interacting with STIM1, promoting STIM1 conformational switch. Involved in STIM1 relocalization to ER-PM junctions. Contributes to the maintenance and reorganization of store-dependent ER-PM junctions.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR201512