

Product datasheet for RN204345

Tmem110 (NM_198774) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Tmem110 (NM_198774) Rat Untagged Clone

Tag: Tag Free

Symbol: Tmem110

Synonyms: STIMATE

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >RN204345 representing NM_198774
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAACTACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGCAAGGCCCGGAGGGAACGTGAGCCGCGGATTGCCGGGCGGGCCGGCCTCCACGGTCGCGTCCGGGG
 CGGGCCGCTGTGAGAGCGGCGCGCTCATGCACAGTTTCGGCATCTTCCTGCAGGGGCTGCTCGGCGTCGT
 GGCCTTCAGCACATTGATGCTTAAACGCTTCGAGAACCAAGCATGAAAGACGGCCATGGAGGATATGG
 TTTTGTAGACACTTCAAACAAGCCATAGGGATGCTCTTCATCCACTTTGCAAACGTGTACCTAGCGGATC
 TCACTGAAGAGGACCCTTGCTCACTGTACCTCATCAACTTCCTTCTGGACGCCACTGTAGGCATGCTCCT
 CATTTATGTGGGCGTACGTGCCGTGCGGTGTGTTGGTGGAGTGGCAGCAGTGGGAGTCCCTGCGTTTTGGA
 GAATATGGAGACCCTCTACAGTGTGGGGCCTGGGTGCGGCAAGTGTGCCCTTTACATCGTGATCATGATCT
 TTGAAAAGTCCGTGGTCTTCATCGTCCTTCTCATACTCCAGTGGAAAAAGGTGGCCCTGCTGAATCCAAT
 TGAGAACCTGACCTGAAGCTGGCCATCGTCATGCTCATAGTCCCCTTCTTTGTCAATGCTTTCATGTTT
 TGGGTAGTGGACAATTCCTCATGAGAAAGGGGAAGACGAAAGCTAAACTCGAAGAAAGAGGAGCCAACC
 AGGACTCAAGGAACGGGAGCAAGTTTCGCTACCGACGGGCGGCATCCCATGAGGAGTCTGAGTCTGAGAT
 CCTGATCTCGGCTGACGACGAGATGGAGGAGTCTGACGCCGAGGAGGACCTCCGGAGACCTGTGAAGAAG
 AACATCGCTTCGGGCTGCCCGTATGA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_198774

Insert Size: 867 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_198774.2, NP_942069.1</u>
RefSeq Size:	1637 bp
RefSeq ORF:	867 bp
Locus ID:	361110
UniProt ID:	<u>Q7TSW6</u>
Cytogenetics:	16p16
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]