

Product datasheet for **MG201512**

Tmem110 (BC024583) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem110 (BC024583) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Tmem110
Synonyms: 1810038N08Rik; 2310014H19Rik; AW554125; STIMATE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201512 representing BC024583
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTGCTCATTTATGTGGCGTACGCGCCGTCGGTGTCTTGGTGGAGTGGCAGCAGTGGGAATCCCTGC
 GTTTTGGAGAATATGGAGACCCTCTGCAGTGCGGGGCTGGGTAGGACAGTGCGCCCTCTACATCGTGAT
 CATGATCTTTGAAAAGTCCGTGGTCTTCATCGTCCTCCTCACTCCAATGAAAAAGGTGGCCCTATTG
 AATCCAATTGAAAACCCGACCTGAAGCTGGCCATCGTCATGCTGATAGTCCCCTTTTGTCAATGCTT
 TCATGTTCTGGGTAGTGGACAATTTCTCATGAGAAAGGGAAGACGAAAGCTAACTAGAAGAAAGAGG
 AGCCAACCAGGACTCAAGGAATGGGAGCAAGGTTTCGCTACCGAAGGGCAGCATCCCATGAGGAGTCTGAG
 TCTGAGATCCTGATCTCAGCTGACGACGAGATGGAGGAGTCTGACGCCGAGGAGGACCTCCGGAGACCTG
 TAAAAAGAAGCACCGCTTCGGGCTGCCTGTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201512 representing BC024583
 Red=Cloning site Green=Tags(s)

MLLIYVGVRVAVGLVEWQQWESLRFGEYGDPLQCGAWVGQCALYIVIMIFEKSVVFIVLLILQWKKVALL
 NPIENPDLKLAIVMLIVPFFVNAFMFWVDNFLMRKGTKAKLEERGANQDSRNGSKVRYRRAASHEESE
 SEILISADDEMEESDAEEDLRPPVKKKHRFGLPV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



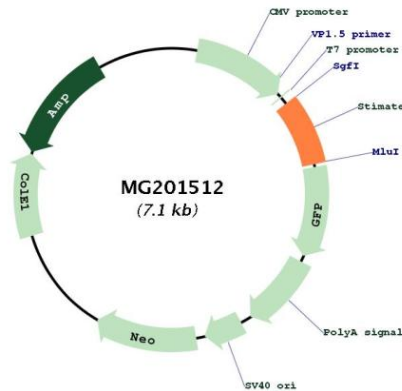
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Cloning Scheme:


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:	<ol style="list-style-type: none"> 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
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 MG201512