

Product datasheet for MR213480

Tmem33 (NM_030108) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tmem33 (NM_030108) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Tmem33 |
| Synonyms: | 1110006G02Rik; 1600019D15Rik; 2410089A21Rik; 2700052H22Rik; 5430406L04Rik; AA388285 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR213480 representing NM_030108 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGCGGATACGACCCCGAACGGCCCCAAGGGGCGGGCGCTGTGCAATTCATGATGACCAATAAATTGG
ACACAGCAATGTGGCTTCTCGCCTGTTACAGTTTATTGCTCCGCTCTGTTCTGCTCTTCTTTGG
GTTGCATGAAGCAGCGAGCTTTACCAGCGTGCTTTGCTGGCCAATGCTCTGACCAGCGCTCTGAGGCTG
CATCAGAGATTACCTCACTTCCAGTTGAGCAGAGCGTTCTGGCTCAGGCCTTGTAGAGGACAGCTGCC
ACTACCTGCTGTATTCATCATCTTCGTCACCTCTACCCTGTACAATGAGTATTTTTCCAGTCTTGTT
ATTTTCTTTGCTCCATGCTGCCACATACACTAAGAAGGTCTGGACGCAAGGGTTCAAATAGTTTACCT
CTGTTGAGATCATTCTTGATAAATTAAGTACTAACCAACAAAATATTCTGAAATTCATCGTTGTAATG
AAATATTCTTGATGCCTGCTACAGTTTTATGCTCTTTAGTGGCCAAGGAAGTTTGTCCAGCCTTTAT
ATATTATAGATTTCTTACTCTTCGATATTCCTCTAGAAGAAATCCATATTGTCGGAACCTGTTAATGAA
CTGAGGATTGTGGTTGAACACATTATTGAAGCCCTCCTGCCACTGTTTGTGAGAAGACTATGTCTCC
AGAGCATCGCCTTTATCAGCAGACTGGCACCAACAGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR213480 representing NM_030108
Red=Cloning site Green=Tags(s)

MADTTPNGPQGAGAVQFMMTNKLDAMWLSRLFTVYCSALFVLP LLGLHEAASFYQRALLANALTSALRL
 HQRLPHFQLSRAFLAQUALLEDSCHYLLYSLIFVNSYPVTMSIFPVLLF SLLHAATYTKKVLDAKGSNSLP
 LLRSFLDKLSTNQNILKFIACNEIFLMPATVFMLFSGQGSLLQPFIIYRFLTLRYSSRRNPYCRNLFNE
 LRIVVEHIIMKPSCPLFVRRRLCLQSIAFISRLAPTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_030108

ORF Size: 738 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.

RefSeq: [NM_030108.2](#)

RefSeq Size: 5367 bp

RefSeq ORF: 741 bp

Locus ID: 67878

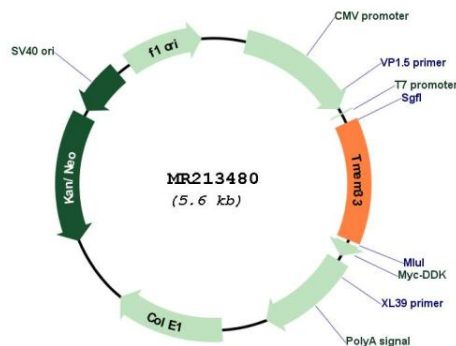
UniProt ID: [Q9CR67](#)

Cytogenetics: 5 C3.1

MW: 28.4 kDa

Gene Summary: Acts as a regulator of the tubular endoplasmic reticulum (ER) network. Suppresses the RTN3/4-induced formation of the ER tubules. Positively regulates PERK-mediated and IRE1-mediated unfolded protein response signaling.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR213480