

Product datasheet for MR203113

Tmem33 (NM_028975) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem33 (NM_028975) 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:	>MR203113 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGATACGACCCCGAACGGCCCCAAGGGGCGGGCGCTGTGCAATTCATGATGACCAATAAATTGG
ACACAGCAATGTGGCTTCTCGCCTGTTACAGTTTTATTGCTCCGCTCTGTTCTGCTCTTCTTGG
GTTGCATGAAGCAGCGAGCTTTACCAGCGTGTCTTGGCCAATGCTCTGACCAGCGCTGAGGCTG
CATCAGAGATTACCTCACTTCCAGTTGAGCAGAGCGTTCTGGCTCAGGCCTGTTAGAGGACAGCTGCC
ACTACCTGCTGTATTCATCATCTTCGTCAACTCCTACCCTGTACAATGAGTATTTTTCCAGTCTTGTT
ATTTTCTTTGCTCCATGCTGCCACATACACTAAGAAGGTCTGGACGCAAGGGTTCAAATAGTTTACCT
CTGTTGAGATCATTCTTGATAAATTAAGTACTAACCAACAAAATATTCTGAAATTCATCGCTTGAATG
AAATATTCTTGATGCCTGCTACAGTTTTATGCTCTTTAGTGGCCAAGGAAGTTTGTCCAGCCTTTAT
ATATTATAGATTTCTTACTCTTCGATATTCCTCTAGAAGAAATCCATATTGTCGGAACCTGTTAATGAA
CTGAGGATTGTGGTTGAACACATTATTATGAAGCCCTCCTGCCACTGTTTGTGAGAAGACTATGTCTCC
AGAGCATCGCCTTATCAGCAGACTGGCACCAACAGTTGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR203113 protein sequence
 Red=Cloning site Green=Tags(s)

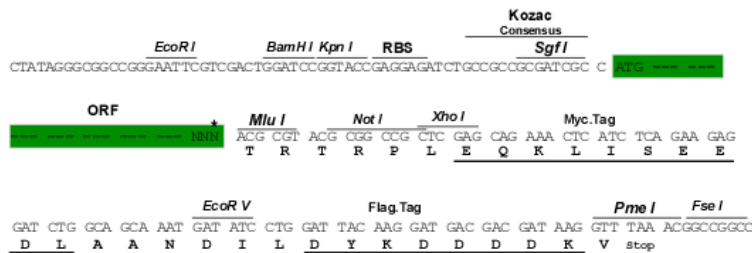
MADTTPNGPQGAGAVQFMMTNKLDAMWLSRLFTVYCSALFVLP LLGLHEAASFYQRALLANALTSALRL
 HQRLPHFQLSRAFLAQALLESCHYLLYSLIFVNSYPVTMSIFPVLLF SLLHAATYTKKVLDAKGSNSLP
 LLRSFLDKLSTNQNILKFIACNEIFLMPATVFMLFSGQGSLLQPFIYYRFLTLRYSSRRNPYCRNLFNE
 LRIVVEHIIMKPSCPLFVRRLLCQSIAFISRLAPTVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028975

ORF Size: 744 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_028975.4](#)

RefSeq Size: 6247 bp

RefSeq ORF: 744 bp

Locus ID: 67878

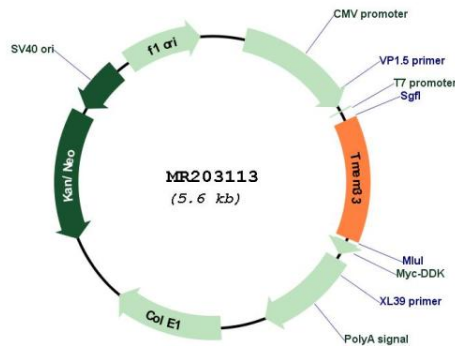
UniProt ID: [Q9CR67](#)

Cytogenetics: 5 C3.1

MW: 28 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 MR203113