

## Product datasheet for MR228757

### Tmem33 (NM\_001285452) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem33 (NM_001285452) 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:	>MR228757 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC

ATGGCGGATACGACCCCGAACGGCCCCAAGGGGCGGGCGCTGTGCAATTCATGATGACCAATAAATTGG  
ACACAGCAATGTGGCTTCTCGCCTGTTACAGTTTTATTGCTCCGCTCTGTTCTGCTCTTCTTGG  
GTTGCATGAAGCAGCGAGCTTTACCAGCGTGCTTTGCTGGCCAATGCTCTGACCAGCGCTGAGGCTG  
CATCAGAGATTACCTCACTTCCAGTTGAGCAGAGCGTTCTGGCTCAGGCCTGTTAGAGGACAGCTGCC  
ACTACCTGCTGTATTCATCATCTTCGTCAACTCTACCCTGTACAATGAGTATTTTTCCAGTCTTGTT  
ATTTTCTTTGCTCCATGCTGCCACATACACTAAGAAGGTCTGGACGCAAGGGTTCAAATAGTTTACCT  
CTGTTGAGATCATTCTTGATAAATTAAGTACTAACCAACAAAATATTCTGAAATTCATCGTTGTAATG  
AAATATTCTTGATGCCTGCTACAGTTTTATGCTCTTTAGTGGCCAAGGAAGTTTGTCCAGCCTTTAT  
ATATTATAGATTTCTTACTCTTCGATATTCCTCTAGAAGAAATCCATATTGTCGGAACCTGTTAATGAA  
CTGAGGATTGTGGTTGAACACATTATTATGAAGCCCTCTGCCACTGTTTGTGAGAAGACTATGTCTCC  
AGAGCATCGCCTTTATCAGCAGACTGGCACCAACAGTTGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR228757 protein sequence  
 Red=Cloning site Green=Tags(s)

MADTTPNGPQGAGAVQFMMTNKLDTAMWLSRLFTVYCSALFVLLPLLGLHEAASFYQRALLANALTSALRL  
 HQRLPHFQLSRAFLAQALLESCHYLLYSLIFVNSYPVTMSIFPVLLFSLHAATYTKKVLDAKGSNSLP  
 LLRSFLDKLSTNQNILKFIACNEIFLMPATVFMLFSGQGSLLQPFIIYRFLTLRYSSRRNPYCRNLFNE  
 LRIVVEHIIMKPSCLFVRRLLCQSIAFISRLAPTVA

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\_001285452

**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\\_001285452.1](#), [NP\\_001272381.1](#)

**RefSeq Size:** 6404 bp

**RefSeq ORF:** 744 bp

**Locus ID:** 67878

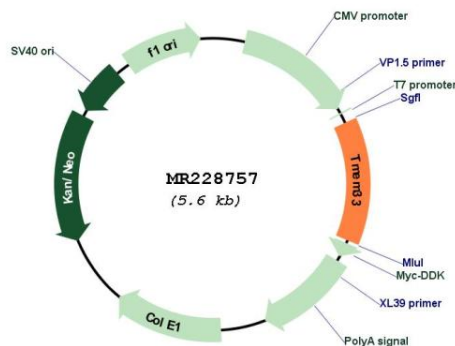
**UniProt ID:** [Q9CR67](#)

**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 MR228757