

## Product datasheet for **MR203124**

### **Tmem33 (BC005562) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem33 (BC005562) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tmem33
Synonyms:	1110006G02Rik; 1600019D15Rik; 2410089A21Rik; 2700052H22Rik; 5430406L04Rik; AA388285; AI314185; AI426615; db83
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203124 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGATACGACCCCGAACGGCCCCAAGGGCGGGCGCTGTGCAATTCATGATGACCAATAAATTGG  
ACACAGCAATGTGGCTTCTCGCCTGTTACAGTTTATTGCTCCGCTCTGTTTCGTTCTGCCTCTTCTTGG  
GTTGCATGAAGCAGCGAGCTTTTACCAGCGTGCTTTGCTGGCCAATGCTCTGACCAGCGCTCTGAGGCTG  
CATCAGAGATTACCTCACTTCCAGTTGAGCAGAGCGTTCCTGGCTCAGGCCTTGTAGAGGACAGCTGCC  
ACTACCTGCTGTATTCACTCATCTTCGTCAACTCCTACCCTGTCACAATGAGTATTTTTCCAGTCTTGTT  
ATTTTCTTTGCTCCATGCTGCCACATACACTAAGAAGGTCCTGGACGCAAAGGGTTCAAATAGTTTACCT  
CTGTTGAGATCATTCTTGATAAATTAAGTACTAACCAACAAAATATTCTGAAATTCATCGCTTGTAAATG  
AAATATTCTTGATGCCTGCTACAGTTTTTATGCTCTTAGTGGCCAAGGAAGTTTCTCCAGCCTTTTAT  
ATATTATAGATTTCTTACTCTTCGATATTCCTCTAGAAGAAATCCATATTGTCGGAACCTGTTTAAATGAA  
CTGAGGATTGTGGTTGAACACATTATTATGAAGCCCTCCTGCCACTGTTTGTGAGAAGACTATGTCTCC  
AGAGCATCGCCTTTATCAGCAGACTGGCACCAACAGTTGGC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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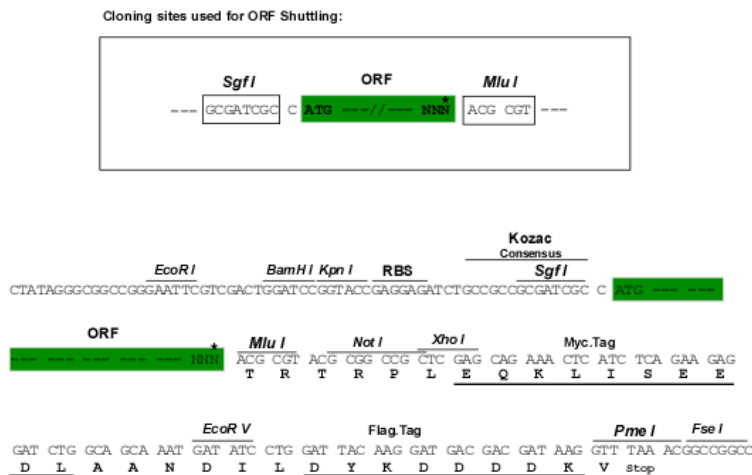
**Protein Sequence:** >MR203124 protein sequence  
Red=Cloning site Green=Tags(s)

MADTTPNGPQGAGAVQFMMTNKLDTAMWLSRLFTVYCSALFVLLPLLGLHEAASFYQRALLANALTSALRL  
 HQRLPHFQLSRAFLAQUALLEDSCHYLLYSLIFVNSYPVTMSIFPVLLFSLHAATYTKKVLDAKGSNSLP  
 LLRSFLDKLSTNQNILKFIACNEIFLMPATVFMLFSGQGSLLQPFIIYRFLTLRYSSRRNPYCRNLFNE  
 LRIVVEHIIMKPSCPLFVRRRLCLQSIAFISRLAPTVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** BC005562

**ORF Size:** 741 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:** [BC005562](#), [AAH05562](#)

**RefSeq Size:** 1126 bp

**RefSeq ORF:** 743 bp

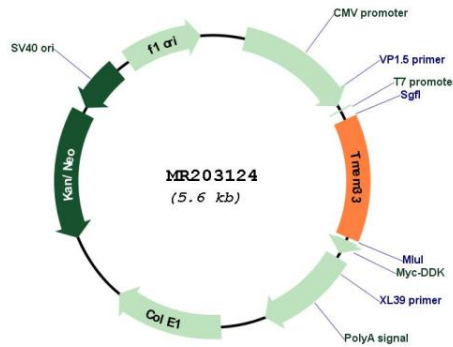
**Locus ID:** 67878

**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 MR203124