

## Product datasheet for **MG213480**

### **Tmem33 (NM\_030108) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem33 (NM_030108) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem33
Synonyms:	1110006G02Rik; 1600019D15Rik; 2410089A21Rik; 2700052H22Rik; 5430406L04Rik; AA388285
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG213480 representing NM_030108 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGATACGACCCCGAACGGCCCCAAGGGGCGGGCGCTGTGCAATTCATGATGACCAATAAATTGG  
ACACAGCAATGTGGCTTCTCGCCTGTTACAGTTTTATTGCTCCGCTCTGTTCTGCTCTTCTTGG  
GTTGCATGAAGCAGCGAGCTTTTACCAGCGTCTTTGCTGGCCAATGCTCTGACCAGCGCTGAGGCTG  
CATCAGAGATTACCTCACTTCCAGTTGAGCAGAGCGTTTCTGGCTCAGGCCTTGTAGAGGACAGCTGCC  
ACTACCTGCTGTATTCATCATCTTCGTCACCTCTACCCTGTACAATGAGTATTTTTCCAGTCTTGTT  
ATTTTCTTTGCTCCATGCTGCCACATACACTAAGAAGGTCTGGACGCAAGGGTTCAAATAGTTTACCT  
CTGTTGAGATCATTCTTGATAAATTAAGTACTAACCAACAAAATATTCTGAAATTCATCGTTGTAATG  
AAATATTCTTGATGCCTGCTACAGTTTTTATGCTCTTTAGTGGCCAAGGAAGTTTGTCCAGCCTTTAT  
ATATTATAGATTTCTTACTCTTCGATATTCCTCTAGAAGAAATCCATATTGTCCGGAACCTGTTAATGAA  
CTGAGGATTGTGGTTGAACACATTATTGAAGCCCTCCTGCCACTGTTTGTGAGAAGACTATGTCTCC  
AGAGCATCGCCTTTATCAGCAGACTGGCACCAACAGCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG213480 representing NM\_030108  
Red=Cloning site Green=Tags(s)

MADTTPNGPQGAGAVQFMMTNKLDAMWLSRLFTVYCSALFVLLPLLGLHEAASFYQRALLANALTSALRL  
 HQRLPHFQLSRAFLAQALLEDSCHYLLYSLIFVNSYPVTMSIFPVLLFSLHAATYTKKVLDAKGSNSLP  
 LLRSFLDKLSTNQNILKFIACNEIFLMPATVFMFLSGQGSLLQPFIIYRFLTLRYSSRRNPYCRNLFNE  
 LRIVVEHIIMKPSCPLFVRRRLCLQSIAFISRLAPTA

TRTRPLE - GFP Tag - V

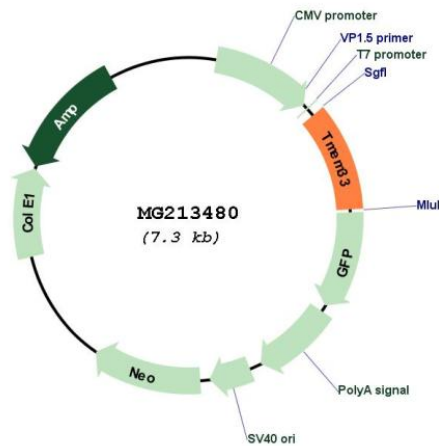
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_030108

**ORF Size:** 738 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_030108.2</a>
<b>RefSeq Size:</b>	5367 bp
<b>RefSeq ORF:</b>	741 bp
<b>Locus ID:</b>	67878
<b>UniProt ID:</b>	<a href="#">Q9CR67</a>
<b>Cytogenetics:</b>	5 C3.1
<b>Gene Summary:</b>	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]