

Product datasheet for **MG203113**

Tmem33 (BC016570) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem33 (BC016570) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem33
Synonyms:	1110006G02Rik; 1600019D15Rik; 2410089A21Rik; 2700052H22Rik; 5430406L04Rik; AA388285; AI314185; AI426615; db83
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203113 representing BC016570 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGATACGACCCCGAACGGCCCCAAGGGCGGGCGCTGTGCAATTCATGATGACCAATAAATTGG
ACACAGCAATGTGGCTTTCTCGCTGTTACAGTTTATTGCTCCGCTCTGTTTCGTTCTGCCTCTTCTTGG
GTTGCATGAAGCAGCGAGCTTTTACCAGCGTGCTTTGCTGGCCAATGCTCTGACCAGCGCTCTGAGGCTG
CATCAGAGATTACCTCACTTCCAGTTGAGCAGAGCGTTCCTGGCTCAGGCCTTGTAGAGGACAGCTGCC
ACTACCTGCTGTATTCACTCATCTTCGTCACCTCCTACCCTGTCACAATGAGTATTTTTCCAGTCTTGTT
ATTTTCTTTGCTCCATGCTGCCACATACACTAAGAAGGTCCTGGACGCAAAGGGTTCAAATAGTTTACCT
CTGTTGAGATCATTCTTGATAAATTAAGTACTAACCAACAAAATATTCTGAAATTCATCGCTTGAATG
AAATATTCTTGATGCCTGCTACAGTTTTATGCTCTTTAGTGGCCAAGGAAGTTTCTCCAGCCTTTTAT
ATATTATAGATTTCTTACTCTTCGATATTCCTCTAGAAGAAATCCATATTGTCGGAACCTGTTTAAATGAA
CTGAGGATTGTGGTTGAACACATTATTATGAAGCCCTCCTGCCACTGTTTGTGAGAAGACTATGTCTCC
AGAGCATCGCCTTTATCAGCAGACTGGCACCAACAGTTGGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



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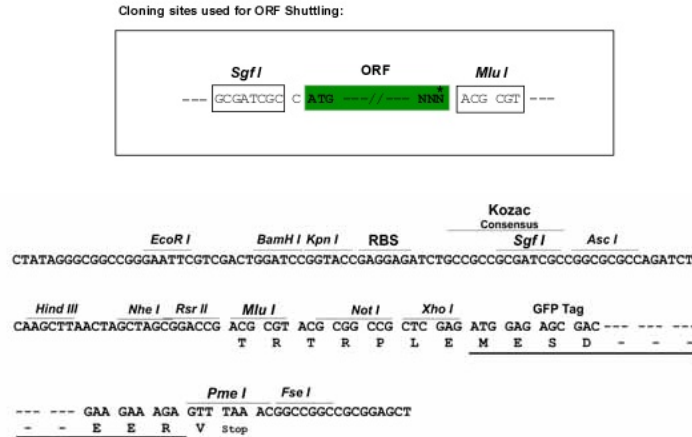
Protein Sequence: >MG203113 representing BC016570
 Red=Cloning site Green=Tags(s)

MADTTPNGPQGAGAVQFMNTNKLDTAMWLSRLFTVYCSALFVLLPLLGLHEAASFYQRALLANALTSALRL
 HQRLPHFQLSRAFLAQUALLEDSCHYLLYSLIFVNSYPVTMSIFPVLLFSLHAATYTKKVLDAKGSNSLP
 LLRSFLDKLSTNQNILKFIACNEIFLMPATVFMLFSGQGSLLQPFIIYRFLTLRYSSRRNPYCRNLFNE
 LRIVVEHIIMKPSCPLFVRRLLCLQSIAFISRLAPTVA

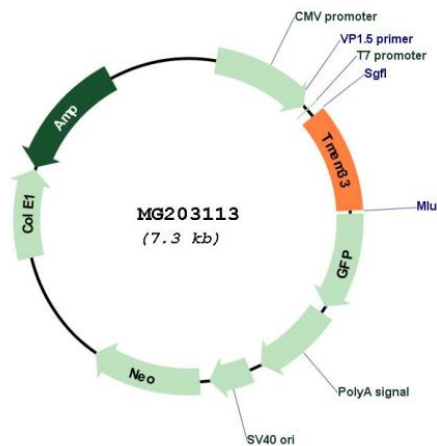
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC016570

ORF Size: 743 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:	<ol style="list-style-type: none">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:	BC016570 , AAH16570
RefSeq Size:	2682 bp
RefSeq ORF:	743 bp
Locus ID:	67878
Cytogenetics:	5 C3.1
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]