

Product datasheet for **RG203433**

TMEM176A (NM_018487) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM176A (NM_018487) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM176A
Synonyms:	GS188; HCA112; MS4B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203433 representing NM_018487 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAACAGCCGACAGTGATGAGATGGCCCCGAGGCCCCACAGCACACCCACATCGATGTGCACATCC
ACCAGGAGTCTGCCCTGGCCAAGCTCCTGCTCACCTGCTGCTCTGCGCTGCGGCCCGGGCCACCCAGGC
CAGGGGCAGCAGCCGGCTGCTGGTGGCCTCGTGGGTGATGCAGATCGTGTGGGATCTTGAGTGCAGTC
CTAGGAGGATTTTCTACATCCGCGACTACACCCTCCTCGTCACCTCGGGAGCTGCCATCTGGACAGGGG
CTGTGGCTGTGCTGGCTGGAGCTGCTGCCTTCATTTACGAGAAACGGGGTGTACATACTGGGCCCTGCT
GAGGACTCTGCTAACGCTGGCAGCTTTCTCCACAGCCATCGCTGCCCTCAAACTTTGAATGAAGATTTT
CGATATGGCTACTCTTATTACAACAGTGCTGCCGCATCTCCAGCTCGAGTGACTGGAACACTCCAGCCC
CCACTCAGAGTCCAGAAGAAGTCAGAAGGCTACACCTATGTACCTCCTTCATGGACATGCTGAAGGCCTT
GTTCAGAACCTTCAGGCCATGCTCTTGGGTGTCTGGATTCTGCTGCTTCTGGCATCTCTGACCCCTCTG
TGGCTGTACTGCTGGAGAATGTTCCCAACCAAGGAAAGAGACCAGAAGGAAATGTTGGAAGTGAGTG
GAATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG203433 representing NM_018487
Red=Cloning site Green=Tags(s)

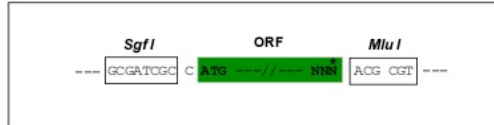
MGTADSDMAPEAPQHTHIDVHIHQESALAKLLLTCSSALRPRATQARGSSRLLVASWVMQIVLGILSAV
LGGFFYIRDYTLTSGAAIWTGAVAVLAGAAFIYEKRGGTYWALLRLLTLAAFSTIAALKLWNEDF
RYGYSYNSACRISSSSDWNTAPTQSPEEVRLHLCTSFMDMLKALFRTLQAMLLGVWILLLLASLTPL
WLYCWRMFPTKGKRDQKEMLEVSGI

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAC TAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCGGCGCGGAGCT

- - E E R V Stop

PmeI FseI

ACCN: NM_018487

ORF Size: 705 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018487.3](#)

RefSeq Size: 1047 bp

RefSeq ORF: 708 bp

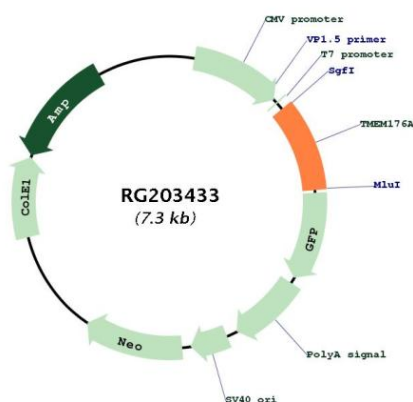
Locus ID: 55365

UniProt ID: [Q96HP8](#)

Cytogenetics: 7q36.1

Protein Families: Transmembrane

Product images:



Circular map for RG203433