

Product datasheet for RC203433

TMEM176A (NM_018487) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM176A (NM_018487) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM176A
Synonyms:	GS188; HCA112; MS4B1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203433 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGGAACAGCCGACAGTGATGAGATGGCCCCGAGGCCCCACAGCACACCCACATCGATGTGCACATCC
 ACCAGGAGTCTGCCCTGGCCAAGCTCCTGCTCACCTGCTGCTCTGCGCTGCGGCCCGGGCCACCCAGGC
 CAGGGGCAGCAGCCGGCTGCTGGTGGCCTCGTGGGTGATGCAGATCGTGTGGGATCTTGAGTGCAGTC
 CTAGGAGGATTTTCTACATCCGCGACTACACCCTCCTCGTCACCTCGGAGCTGCCATCTGGACAGGGG
 CTGTGGCTGTGCTGGCTGGAGCTGCTGCCTTCATTTACGAGAAACGGGTGGTACATACTGGGCCCTGCT
 GAGGACTCTGCTAACGCTGGCAGCTTTCTCCACAGCCATCGCTGCCCTCAAACCTTTGGAATGAAGATTTT
 CGATATGGCTACTCTTATTACAACAGTGCTGCCGCATCTCCAGCTCGAGTGACTGGAACACTCCAGCCC
 CCACTCAGAGTCCAGAAGAAGTCAGAAGGCTACACCTATGTACCTCCTTCATGGACATGCTGAAGGCCTT
 GTTCAGAACCTTCAGGCCATGCTCTTGGGTGTCTGGATTCTGCTGCTTCTGGCATCTCTGACCCCTCTG
 TGGCTGTACTGCTGGAGAATGTTCCCAACCAAGGAAAAGAGACCAGAAGGAAATGTTGGAAGTGAGTG
 GAATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC203433 protein sequence
 Red=Cloning site Green=Tags(s)

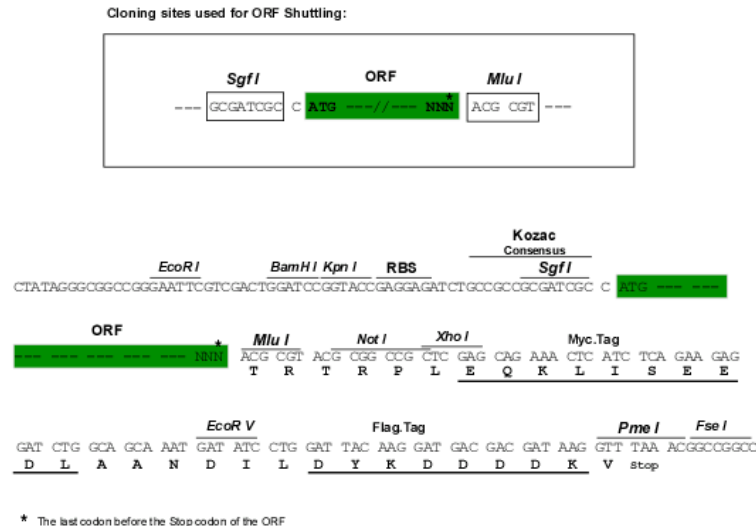
MGTADSDMAPEAPQHTHIDVHIHQESALAKLLLTCCSALRPRATQARGSSRLLVASWVMQIVLGILSAV
 LGGFFYIRDYTLTSGAAIWTGAVAVLAGAAFIYEKRGGTYWALLRLLTLAAFSTAI AALKLWNEDF
 RYGYSYNSACRISSSSDWNTAPTQSPEEVRLHLCTSFMDMLKALFRTLQAMLLGVWILLLLASLTPL
 WLYCWRMFPTKGKRDQKEMLEVSGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6413_g06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

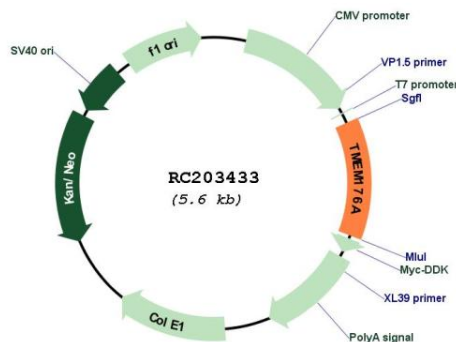
UniProt ID: [Q96HP8](#)

Cytogenetics: 7q36.1

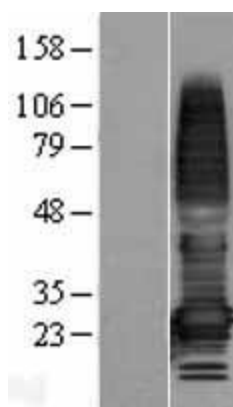
Protein Families: Transmembrane

MW: 26.1 kDa

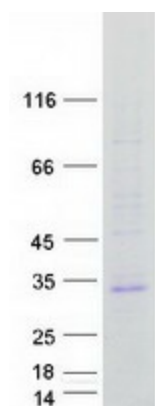
Product images:



Circular map for RC203433



Western blot validation of overexpression lysate (Cat# [LY413014]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203433 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM176A protein (Cat# [TP303433]). The protein was produced from HEK293T cells transfected with TMEM176A cDNA clone (Cat# RC203433) using MegaTran 2.0 (Cat# [TT210002]).