

Product datasheet for **RC212419**

TMEM176B (NM_001101314) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM176B (NM_001101314) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM176B
Synonyms:	LR8; MS4B2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212419 representing NM_001101314 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGCAAAACACGGTGATTGTGAATGGAGTTGCTATGGCCTCTAGGCCATCCCAGCCCACCCACGTCA
ACGTCCACATCCACCAGGAGTCAGCTTTGACACAACCTGCTGAAAGCTGGAGTTCTCTGAAGAAGTTTCT
TTTTACCCTGGGGACACTGTGCCTTCCACAGCCAGGATTGGTTATGAGCAGCTGGCTCTAGGGGTGATC
GCAGCAGGAGCTGGGGCCATTGCCATGAGAAGCACCCGGCAAACCTTGCTGGCTATATATCCAGCCTGC
TACCCTGGCAGGCTTTGCTACAGCTATGGCTGCTGTTGCTCCTCTGCGTGAATAGCTTCATCTGGCAAAC
TGAACCTTTTTATACATCGACACTGTGTGTGATCGCTCAGACCCTGTCTCCCTACCACTGGGTACAGA
TGGATGCGGCGAAGTCAAGAAACCAATGGCAGAAGGAGGAGTGTAGAGCTTACATGCAGATGCTGAGGA
AGTTGTTACAGCAATCCGTGCCCTGTTCTGGCTGTCTGTGCTTGAAGGTCATTGTGTCCTTGGTTTC
CTTGGGAGTAGTCTTCGAAACTGTGTGGCCAGAGCTCCAGCCCTGAATGAGGAAGGATCAGAGAAG
AGGCTACTGGGGGAGAATTCAGTGCCCCCTTCGCCCTCTAGGGAGCAGACCTCCACTGCCATTGTCTG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC212419 representing NM_001101314
Red=Cloning site Green=Tags(s)

MTQNTVI VNGVAMASRPSQPTHVNVHIHQESAL TQLLKAGGSLKKFLFHPGDTV PSTARIGYEQLALGVI
 AAGAGAI VHEKHPGKLAGYISSLL TLAGFATAMA AVVLCVNSFIWQTEPFLYIDTVCDRSDPVFPTTGYR
 WMRRSQENQWQKEECRAYMQMLRKLFTAIRALFLAVCVLKVIVSLVSLGVGLRNL CGSSQPLNEEGSEK
 RLLGENSVPPSPSREQTSTAIVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1520_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001101314

ORF Size: 699 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: [NM_001101314.1](#), [NP_001094784.1](#)

RefSeq Size: 1201 bp

RefSeq ORF: 702 bp

Locus ID: 28959

UniProt ID: [Q3YBM2](#)

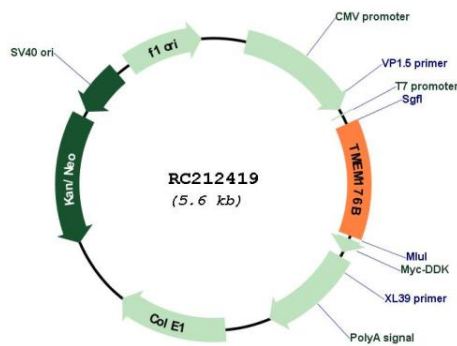
Cytogenetics: 7q36.1

Protein Families: Druggable Genome, Transmembrane

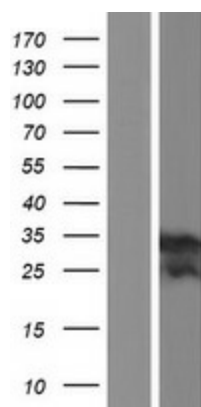
MW: 25.2 kDa

Gene Summary: May play a role in the process of maturation of dendritic cells. Required for the development of cerebellar granule cells (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC212419



Western blot validation of overexpression lysate (Cat# [LY420315]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212419 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).