

Product datasheet for **RC206257**

TMEM106B (NM_018374) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM106B (NM_018374) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM106B
Synonyms:	HLD16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206257 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAAGTCTCTTTCTCATTTCCTTTGCATTCAAGCAAAGAAGATGCTTATGATGGAGTCACATCTG
AAAACATGAGGAATGGACTGGTTAATAGTGAAGCCATAATGAAGATGGAAGAAATGGAGATGTCTCTCA
GTTTCCATATGTGAATTTACAGGAAGAGATAGTGTACCTGCCCTACTTGTGAGGAAACAGGAAGAATT
CCTAGGGGCAAGAAAACCAACTGGTGGCATTGATCCATATAGTGATCAGAGATTAAGGCCAAGAAGAA
CAAAGCTGTATGTGATGGCTTCTGTGTTTGTCTGTCTACTCCTTTCTGGATTGGCTGTGTTTTTCCTTTT
CCCTCGCTCTATCGACGTGAAATACATTGGTGTAAAATCAGCCTATGTCAGTTATGATGTTGAGGAGCGT
ACAATTTATTTAAATATCACAACACACTAAATATAACAAACAATAACTATTACTCTGTGCAAGTTGAAA
ACATCACTGCCCAAGTTCAATTTCAAAAAACAGTTATTGGAAAGGCACGCTTAAACAACATAACCATTAT
TGGTCCACTTGATATGAAACAAATTGATTACACAGTACCTACCGTTATAGCAGAGGAAATGAGTTATATG
TATGATTTCTGTACTCTGATATCCATCAAAGTGCATAACATAGTACTCATGATGCAAGTTACTGTGACAA
CAACATACTTTGGCCACTCTGAACAGATATCCCAGGAGAGGTATCAGTATGTCGACTGTGGAAGAAACAC
AACTTATCAGTTGGGGCAGTCTGAATATTTAAATGTACTTCAGCCACAACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206257 protein sequence
Red=Cloning site Green=Tags(s)

MGKSLSHLPLHSSKEDAYDGVTSENMRNGLVNSEVHNEDGRNGDVSQFPYVEFTGRDSVTCPTCQGTGRI
 PRQENQLVALIPYSDQRLRPRRTKLYVMASVFVCLLLSGLAVFFLFPRSIDVKYIGVKSAYVSYDVQKR
 TIYLNITNTLNI TNNNYYSVEVENITAQVQFSKTVIGKARLNNITIIIGPLDMKQIDYTVPTVIAEEMSYM
 YDFCTLISIKVHNIVLMMQVTVTTTYFGHSEQISQERYQYVDCGRNTTYQLGQSEYLNVLQPQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6319_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_018374

ORF Size: 822 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_018374.4](#)

RefSeq Size: 6514 bp

RefSeq ORF: 825 bp

Locus ID: 54664

UniProt ID: [Q9NUM4](#)

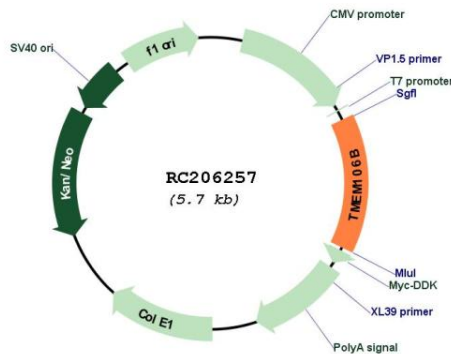
Cytogenetics: 7p21.3

Protein Families: Transmembrane

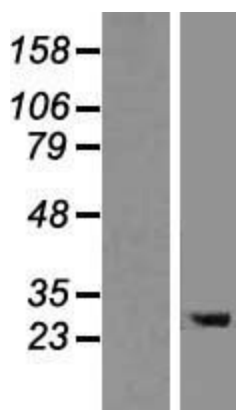
MW: 31.1 kDa

Gene Summary: Involved in dendrite morphogenesis and maintenance by regulating lysosomal trafficking via its interaction with MAP6. May act by inhibiting retrograde transport of lysosomes along dendrites. Required for dendrite branching.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC206257



Western blot validation of overexpression lysate (Cat# [LY427384]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC225374] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).