

## Product datasheet for **RC211677**

### **TMEM74B (NM\_018354) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM74B (NM_018354) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM74B
Synonyms:	C20orf46
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC211677 representing NM_018354 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCACCAGCACAGGGTATGAGTTTGCAGCTGCCAAGGGGCCAAGGGATGAGCTGGGGCCCTCCTTCC  
CAATGGCATCTCCCCCTGGTCTGGAACGAAGACACTGAGCAATGGTCCCCAAGCCCCAAGGAGATCAGC  
TCCCCTGGGCCAGTGGCCCCAACCAGGGAGGGTGTGGAGAATGCCTGCTTCTCCTCAGAGGAGCATGAG  
ACCCATTTCCAGAACCCTGGGAACACGAGACTGGGCAGCTCACCCAGTCCCCCTGGGGGTGTCTCCTCAC  
TGCCCCGATCCCAGCGGGATGATCTGTCCCTTCATTTCAGAGGAGGGGCCAGCCCTGGAGCCCGTGAGCCG  
CCCGGTGGATTATGGCTTTGTTTCCGCCCTCGTTTTCTGGTGAGTGGGATTCCTTCTGGTGGTGACAGCA  
TACGCCATCCCCCGTGAGGCTCGAGTCAATCCGGACACAGTGACAGCGCGGGAGATGGAACGACTGGAGA  
TGTAACGACCGCCCTAGGCTCCACCTGGACAGGTGCATCATCGCAGGCCTCGGGCTGCTCACGGTGGG  
CGGCATGCTCTTGTGGTGTGCTCATGGTCTCCCTGTGCAAGGGCGAGCTGTACCGCCGGAGGACCTTC  
GTCCCCGGCAAGGGTCCAGGAAGACCTACGGCTCCATTAACCTGCGCATGAGACAGTCAATGGGGATG  
GGGGCCAGGCCCTGGTGGAGAATGAAGTTGTCCAGGTCTCAGAGACTAGCCACACCCTCCAGAGGTCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC211677 representing NM\_018354  
Red=Cloning site Green=Tags(s)

MPPAQGYEFAAAKGPRDELGPSFPMASPPGLELKTLSNGPQAPRRSAPLGPVAPTREGVENACFSSEEHE  
 THFQNPNGNTRLGSSPSPGGVSSLPRSQRDDLHLHSEEGPALEPVSRPVDYGFVSALVFLVSGILLVVTA  
 YAIPREARVNPDTVTAREMERLEMYARLGSHLDRCIIAGLGLLTVGGMLLSVLLMVSLCKGELYRRRTF  
 VPGKGSRKTYGSINLRMRQLNGDGGQALVENEVQVSETSHTLQRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8009\\_g08.zip](https://cdn.origene.com/chromatograms/mk8009_g08.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\_018354

**ORF Size:** 768 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\\_018354.2](#), [NP\\_060824.1](#)

**RefSeq Size:** 1720 bp

**RefSeq ORF:** 771 bp

**Locus ID:** 55321

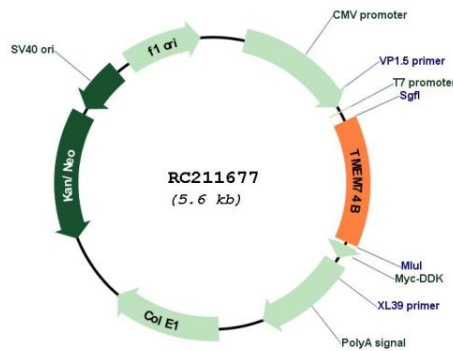
**UniProt ID:** [Q9NUR3](#)

**Cytogenetics:** 20p13

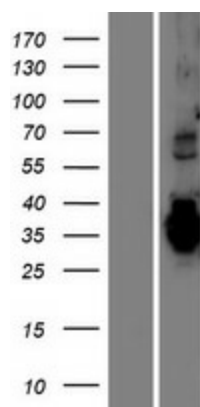
**Protein Families:** Transmembrane

**MW:** 27.4 kDa

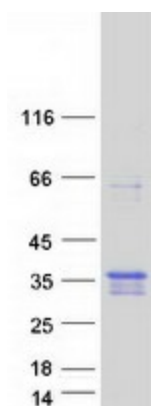
**Product images:**



Circular map for RC211677



Western blot validation of overexpression lysate (Cat# [LY413106]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211677 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM74B protein (Cat# [TP311677]). The protein was produced from HEK293T cells transfected with TMEM74B cDNA clone (Cat# RC211677) using MegaTran 2.0 (Cat# [TT210002]).