

Product datasheet for **RC209506**

TMUB2 (NM_177441) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMUB2 (NM_177441) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMUB2
Synonyms:	FP2653
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209506 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTCTCTGATGTCACCCTCATTGAGGGTGTGGTAATGAGGTGATGGTGGTGGCAGGTGTGGTGG
TGCTGATTCTAGCCTTGGTCCTAGCTTGGCTCTCTACCTACGTAGCAGACAGCGGTAGCAACCAGCTCCT
GGGCGCTATTGTGTCAGCAGGCGACACATCCGTCCTCCACCTGGGGCATGTGGACCACCTGGTGGCAGGC
CAAGGCAACCCCGAGCCAACTGAACTCCCCATCCATCAGAGGGTAATGATGAGAAGGCTGAAGAGGCGG
GTGAAGGTCGGGGAGACTCCACTGGGGAGGCTGGAGCTGGGGTGGTGTGAGCCAGCCTTGAGCATCT
CCTTGACATCCAAGGCCTGCCAAAAGACAAGCAGGTGCAGGCAGCAGCAGTCCAGAGGCCCCCTGAGA
TCTGAGGATAGCACCTGCCTCCCTCCCAGCCCTGGCCTCATCACTGTGCGGCTCAAATTCCTCAATGATA
CCGAGGAGCTGGCTGTGGCTAGGCCAGAGGATACCGTGGGTGCCCTGAAGAGCAAATACTTCCCTGGACA
AGAAAGCCAGATGAAACTGATCTACCAGGGCCGCTGCTACAAGACCCAGCCCGCACACTGCGTTCTCTG
AACATTACCGACAACGTGTGATTCACTGCCACCGCTCACCCCAAGGTCAGCTGTTCCAGGCCCTCAG
CCTCCTTGGCCCCCTCGGCCACTGAGCCACCCAGCCTTGGTGTCAATGTGGGCAGCCTCATGGTGCCTGT
CTTTGTGGTGTGTTGGGTGTGGTCTGGTACTTCCGAATCAATTACGCCAATTCCTCACAGCACCTGCC
ACTGTCTCCCTGGTGGGAGTCACCGTCTTCTTCAGCTTCTAGTATTTGGGATGTATGGACGA

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC209506 protein sequence
Red=Cloning site Green=Tags(s)

MELSDVTLIEGVGNEVMVVAGVVVLLILALVLAWLSTYVADSGSNQLLGAIVSAGDTSVLHLGHVDHLVAG
 QGNPEPELPHPSEGNDKAEAEAGEGRGDSTGEAGAGGGVEPSLEHLLDIQGLPKRQAGAGSSSPEAPLR
 SEDSTCLPPSPGLITVRLKFLNDTEELAVARPEDEVGALKSKYFPGQESQMKLIYQGRLLQDPARTLRSL
 NITDNCVIHCHRSPPGSAVPGPSASLAPSATEPPSLGNNVGSMLMVPVFFVLLGVVWYFRINRQFFFTAPA
 TVSLVGVTVFFSFLVFGMYGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6355_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_177441

ORF Size: 903 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_177441.4](#)

RefSeq Size: 2443 bp

RefSeq ORF: 906 bp

Locus ID: 79089

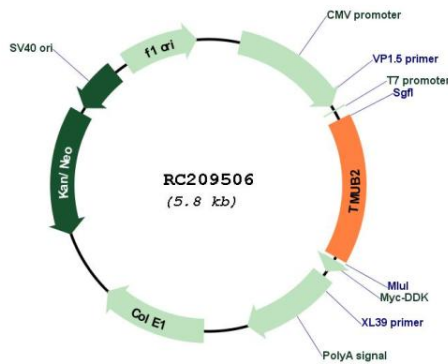
UniProt ID: [Q71RG4](#)

Cytogenetics: 17q21.31

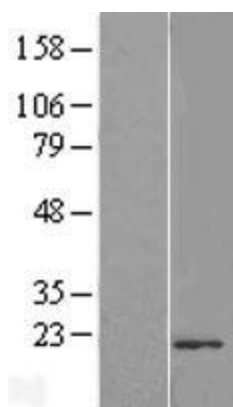
Protein Families: Druggable Genome, Transmembrane

MW: 31.6 kDa

Product images:



Circular map for RC209506



Western blot validation of overexpression lysate (Cat# [LY411341]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC219462] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).