

Product datasheet for RC212590

TMEM231 (NM_001077418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM231 (NM_001077418) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM231
Synonyms:	ALYE870; JBTS20; MKS11; PRO1886
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212590 representing NM_001077418 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCTCTATGAGCTCTTCTCTACCCGGTCGAGCGCAGTTACCGCGCGGGGCTCTGCTCCAAAGCCG
 CGCTGTTCTGCTGCTGGCCGCTGCGCTCACGTACATCCGCGCTGCTGGTGGCCTTCCGGAGCCACGG
 GTTTTGGCTGAAGCGGAGCAGCTACGAGGAGCAGCCGACCGTGCCTTCCAAACACCAGGTGCTGCTCGT
 GCCCTGCTCGGACCCGAAAGCGACGGTTCCTCGCTGGAGCACGTTCCCGCCTTCAACCGGCTGCAAG
 GGGATCGCTGCGCGTCCGCTCGTTTCGACTAGAGAAGAAGACAGGAACCAGGATGGGAAGACGGACAT
 GTTACATTTTAAAGCTGGAGCTTCCCTGCAGTCCACGGAGCACGTTCTCGGTGTGCAGCTCATCCTGACT
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 CTGTCCCGGATCCAGTTATACGTGAACGGAGACCTGAGGCTGCAGCAGAAGCAGCCGCTGAGCTGTGG
 TGGCCTAGATGCCGATACAACATATCCGTGATCAACGGGACAGCCCTTTGCCTATGACTACGACCTC
 ACCCATATTGTTGCTGCCTACAGGAGAGGAACGTTACCAACGTCCTGAATGATCCCAACCCCATCTGGC
 TGGTGGGAGGGCCGAGATGCTCCATTTGTGATTAATGCTATCATCCGATACCTGTGGAAGTCATTTT
 TTATCAGCCAGGATTCTGGGAGATGGTAAAGTTCGCTGGGTGCAGTATGTCAGCATCCTGCTTATCTTC
 CTCTGGGTGTTTGAAGAATCAAGATCTTCGTGTTTCAGAATCAGGTGGTGACCACCATTCCTGTGACAG
 TGACGCCCCGGGAGACTTGTGTAAGGAGCACTTATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC212590 representing NM_001077418
 Red=Cloning site Green=Tags(s)

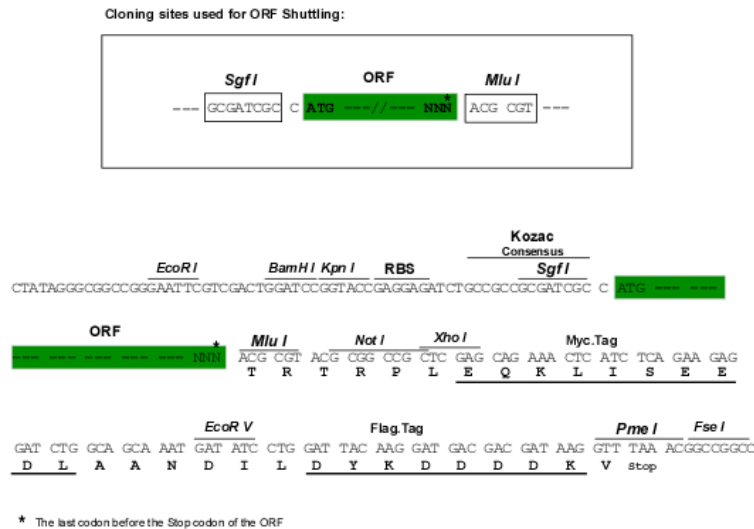
MALYELFSPHVERSYRAGLCSKAALFLLAAALTYIPLLVAFRSHGFWLKRSSYEEQPTVRFQHQVLLV
 ALLGPESDGLAWSTFPFNLRLQGDRLRVPLVSTREEDRNQDGKTDMLHFKLELPQSTEHVLGVQLILT
 FSYRLHRMATLVMQSMFLQSSFPVPGSQLYVNGDLRLQKQPLSCGGLDARYNISVINGTSPFAYDYDL
 THIVAAYQERNVTTVLNDPNPIWLVGRAADAPFVINAIIRYPVEVISYQPGFWEMVKFAWVQYVSILLIF
 LWVFERIKIFVFQNVVTTIPVTVTPRGDLCKEHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3921_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001077418

ORF Size: 948 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_001077418.3](#)

RefSeq Size: 2911 bp

RefSeq ORF: 951 bp

Locus ID: 79583

UniProt ID: [Q9H6L2](#)

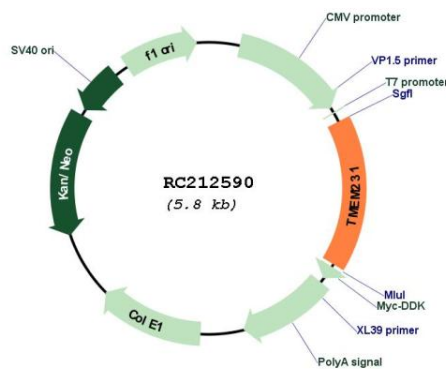
Cytogenetics: 16q23.1

Protein Families: Transmembrane

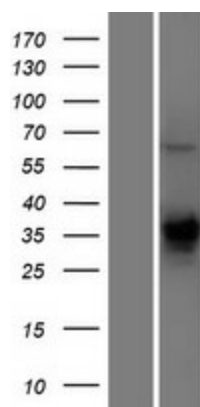
MW: 35.9 kDa

Gene Summary: This gene encodes a transmembrane protein, which is a component of the B9 complex involved in the formation of the diffusion barrier between the cilia and plasma membrane. Mutations in this gene cause Joubert syndrome (JBTS). Multiple alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jan 2013]

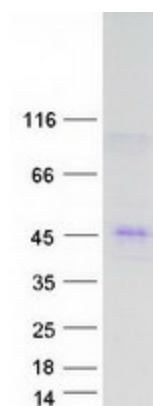
Product images:



Circular map for RC212590



Western blot validation of overexpression lysate (Cat# [LY421413]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212590 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM231 protein (Cat# [TP312590]). The protein was produced from HEK293T cells transfected with TMEM231 cDNA clone (Cat# RC212590) using MegaTran 2.0 (Cat# [TT210002]).