

Product datasheet for RC201060

TMEM70 (NM_017866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM70 (NM_017866) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM70
Synonyms:	MC5DN2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201060 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTTCTGGCGTTGGGCAGCCCGTGGGCGGTGCGAACTGCCTCTCTGCGGAAGGAGGACTGCATTGT
GTGCGGCCGCGCGCTCCGAGGTCCCCGGGCTCTGTCTCCGGGCGTCTCCAGCAGCGGGCCTTCGGG
GCCGGTAGCCGGCTGGAGTACGGGGCTTCGGGAGCCGCGCCCTTCCGGCGTCCGGGTGAGCGCAG
ATCCCTGTTTATTGGGAAGGATATGTTTCGATTCTAAATACGCCATCTGACAAATCAGAAGATGGAAGGC
TAATTTATACTGGCAATATGGCCGAGCAGTGTGGTGTGAAATGTTTCTTATTCTACGAGTCTGAT
TGGCCTTACATTTCTGCCATACATTTTACACAAATAATGCTATTTCTGAAAGTGTGCCTCTGCCTATT
CAAATCATATTCTATGGCATCATGGGAAGCTTTACGGTGATCACCCAGTGTGCTTCACTTTATTACAA
AAGGCTATGTCATTGATTGTACCATGAGGCCACAACAGACACTATAAAGCCATTACCTACAATGCTAT
GCTTGAGAAACGAGTACAGTGTTCACCAGAATGATGTGAAGATTCCAGATGCTAAACATGATTTTACC
ACATTTTATGCTAAAACAAAATCACTGTTAGTTAATCCAGTGTCTTTCCAAACCGTGAAGACTATATCC
ATCTAATGGGTTATGACAAAGAAGAATTTATTTGTATATGGAAGAAACCAAGTGAAGAGAAACGGCATAA
AGATGACAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC201060 protein sequence
Red=Cloning site Green=Tags(s)

MLFLALGSPWAVELPLCGRRALCAAAALRGPRASVSRASSSSGSPSPVAGWSTGPSGAARLLRRPGRAQ
 IPVYWEGYVRFNLNTPSDKSEDGRLIYTGNMARAVFGVKCFYSYSLIGLTFLPYIFTQNNAISESVPLPI
 QIIFYGIMGSFTVITPVLHFFITKGYVIRLYHEATTDYKAITYNAMLAETSTVFHQNDVKIPDAKHVFT
 TFYAKTKSLLVNPVLPNREDYIHLMGYDKEEFILYMEETSEEKRHKDDK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6233_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017866

ORF Size: 780 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_017866.6](#)

RefSeq Size: 2096 bp

RefSeq ORF: 783 bp

Locus ID: 54968

UniProt ID: [Q9BUB7](#)

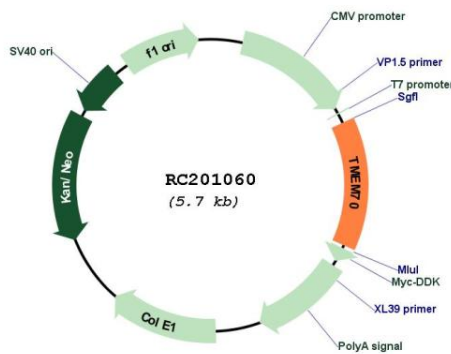
Cytogenetics: 8q21.11

Protein Families: Transmembrane

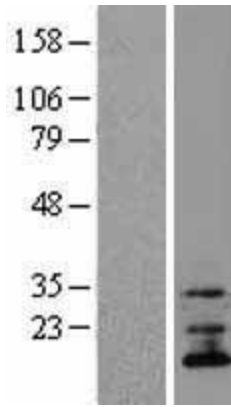
MW: 29 kDa

Gene Summary: This gene likely encodes a mitochondrial membrane protein. The encoded protein may play a role in biogenesis of mitochondrial ATP synthase. Mutations in this gene have been associated with neonatal mitochondrial encephalocardiomyopathy due to ATP synthase deficiency. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2010]

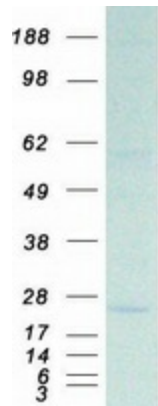
Product images:



Circular map for RC201060



Western blot validation of overexpression lysate (Cat# [LY413488]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201060 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM70 protein (Cat# [TP301060]). The protein was produced from HEK293T cells transfected with TMEM70 cDNA clone (Cat# RC201060) using MegaTran 2.0 (Cat# [TT210002]).