

Product datasheet for RC205533

TMEM163 (NM_030923) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM163 (NM_030923) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM163
Synonyms:	DC29; SV31
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205533 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGGCCGCGGCATCCAGCGCCGAGCTCCAGGGGCCACCGTCCCGCCGCGCCCGGGGCC
ACGCGCCACCGGCTGCCGCCCGGGCCCGCCCGCTGAGCTCCCGGTGCGCGAGCCCGCCAGCTGGA
GGAGGAGCGGCAGGTGCGGATCAGCGAGAGCGCCAGTTCAGCGACGGGCTGGAGGACCGAGGCTTACTA
GAAAGCAGCACCCGCTGAAACCTCACGAAGCCAGAACTACAGGAAGAAGGCATTGTGGGTGTCCTGGT
TCTCCATCATTGTCACCCTGGCCCTCGCGGTGGCTGCCTTACTGTCTCGTTATGAGGTACAGCGCCTC
TGCTTTTGGGTTTGCAATTTGATGCCATCCTGGAGTCTGTGCATCGGCGATTGTCCTGTGGCGTTACAGC
AACCGGCGCGTGTGCACTCTGCCATAGGGAGTACATAGCCTGTGCATCTTGGGGTGATATTCTTC
TGTTCATCCATATGTATAGTGGTCAAAGCCATCCATGACCTCTCAACTAGGCTGCTCCAGAAAGTGGACGA
TTTCTGTTCAGTGTCTCCATTTAAGTGGGATTCTTTGAGCATCCTGGCCGTGTTGAAGTTTCATGCTG
GGGAAGTTCTGACCAGTAGAGCACTATAACAGATGGGTTAACTCCCTCGTGGGTGGCGTGATGGGCT
TCTCCATTCTTGAGCGCGGAAGTGTCAAGCATGACTCAGCGGTCTGGTACCTGGACGGCAGCATAGG
CGTTCTGATCGGCCTCACCATATTTGCCTATGGGGTCAAACCTCCTCATCGACATGGTGCCGAGGGTGAGG
CAGACACGTCACGAGATGTTTGAG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205533 protein sequence
Red=Cloning site Green=Tags(s)

MEPAAGIQRSSQGPTVPPPPRGHAPPAAPGPAPLSSPVREPPQLEERQVRISESQFSDGLEDRGLL
 ESSTRLLKPHEAQNYRKKALWVSWFSIIIVTLALAVAFTVSMRYASAFGFAFDAILDVLSAIVLWRY
 NAAAVHSAHREYIACVILGVIFLLSSICIVVKAIHDLSTRLLPEVDDFLFVSVILSGILCSILAVLKFML
 GKVLTSRALITDGFNSLVGGVMGFSILLSAEVFKHDSAVWYLDGSIGVLIGLTIIFAYGVKLLIDMVPVRV
 QTRHYEMFE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6316_d09.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_030923

ORF Size: 867 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_030923.3](#)

RefSeq Size: 1901 bp

RefSeq ORF: 870 bp

Locus ID: 81615

UniProt ID: [Q8TC26](#)

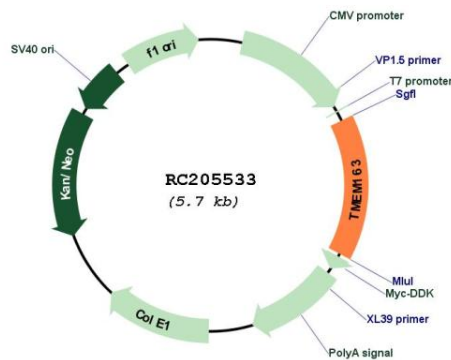
Cytogenetics: 2q21.3

Protein Families: Transmembrane

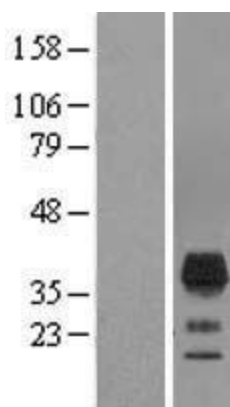
MW: 31.5 kDa

Gene Summary: May bind zinc and other divalent cations and recruit them to vesicular organelles. [UniProtKB/Swiss-Prot Function]

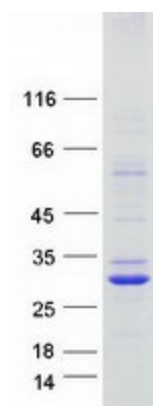
Product images:



Circular map for RC205533



Western blot validation of overexpression lysate (Cat# [LY410658]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205533 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM163 protein (Cat# [TP305533]). The protein was produced from HEK293T cells transfected with TMEM163 cDNA clone (Cat# RC205533) using MegaTran 2.0 (Cat# [TT210002]).