

Product datasheet for RC202998

TMEM79 (NM_032323) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM79 (NM_032323) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM79
Synonyms:	MATT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202998 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGACAGAACAGGAGACCCTGGCCCTACTGGAAGTGAAGAGGTCTGATCCCCAGAGAAGAGCTCACCCC
AGGCCTTGGTTCCCAATGGCCGGCAGCCAGAAGGGGAAGGTGGGGCCGAATCCCCGGGAGCTGAGTCCCT
CAGAGTGGGTCTTCAGCTGGATCTCCACAGCCATAGAGGGGGCTGAGGATGGTCTAGACAGCACAGTA
AGTGAGGCTGCCACCTTGCCCTGGGGACTGGCCCTCAGCCAGTGTCCGTTCCCGGATCCCCCTGGCT
GGCGGGACATTGAACCAGAGCCCCCTGAGTCAGAACCACTTACCAAGCTAGAGGAGCTGCCGAAGACGA
TGCCAACCTGCTGCCTGAGAAAGCGGCCCGTGCCTTCGTGCCTATTGACCTACAGTGCATTGAGCGGCAG
CCCCAAGAAGACCTTATCGTGCGCTGTGAGGCAGGCGAGGGCGAGTGCCGAACCTTCATGCCCCCGGG
TCACCCACCCGACCCCACTGAGCGCAAGTGGGCTGAGGCAGTGGTGAAGCCGCTGGCTGTTCTCTGTG
GGGCTGCGGGAGCTGTGGAGACCGTGAAGGGCTGTGGCCTCCGTGGGAGCCGCACTATTCTC
TTCCCTTGCTACTATACGGGCATATGCCTTCTGCCGTTTGATGTCCACGGCTGCCACCATGAGTT
CCCGCTGATCTACACTGCGCTGCGGGGTCTTGGCACCTTCCCCATTGTGCTGGGGATCCTGGTGTA
CGGGCTGAGCCTGTTATGCTTTTCTGCCCTTCGGCCCTTTGGGAGCCACGGCGGGAGGTGGAGATCCAC
CGGCGATATGTGGCCAGTCGGTCCAGCTCTTATTCTCTACTTCTCAACCTGGCCGTGCTTTCCACTT
ACCTGCCCCAGGATACCCTCAAACCTGCTCCCTCTGCTCACTGGTCTCTTTGCCGTCTCCCGCTGATCTA
CTGGCTGACCTTTGCCGTGGGCCCTCCTCCGAGGCTTCGGCTACGGCCTGACGTTTCTGCCACTGCTG
TCGATGCTGATGTGAACCTCTACTACATGTTCTGGTGGAGCCGGAGCGCATGCTCACTGCCACCGAGA
GCCGCTGGACTACCGGACCACGCCCGCTCGGCCTCCGACTACAGGCCCGCCCTGGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202998 protein sequence
 Red=Cloning site Green=Tags(s)

MTEQETLALLEVKRSDSPEKSSPQALVPNGRQPEGEGGAESPGAESLRVGSSAGSPTAIEGAEDGLDSTV
 SEAATLPWGTGPQPSAPFPDPPGWRDIEPEPPESEPLTKLEELPEDDANLLPEKAARAFVPIDLQCIERQ
 PQEDLIVRCEAGEGECRTFMPPRVTHPDPTERKWAEEAVRPPGSCGCGSCGDREWLRAVASVGAALIL
 FPCLLYGAYAFLPFDVPRPTMSSRLIYTLRCGVFATFPFIVLGILVYGLSLLCF SALRPFGEPRREVEIH
 RRYVAQSVQLFILYFFNLAVLSTYLPQDTLKLLPLL TGLFAVSRLIYWLTF AVGRSFRGFYGLTFLPLL
 SMLMWNLYYMFVVEPERMLTATESRLDYPDHARSASDYRPRPWG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6412_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032323

ORF Size: 1182 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_032323.3](#)

RefSeq Size: 2215 bp

RefSeq ORF: 1185 bp

Locus ID: 84283

UniProt ID: [Q9BSE2](#)

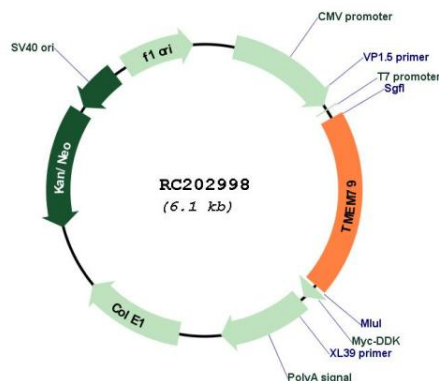
Cytogenetics: 1q22

Protein Families: Transmembrane

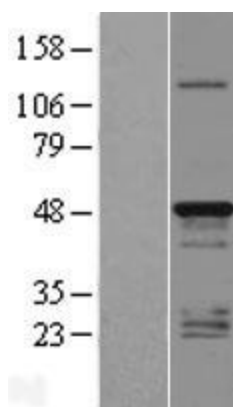
MW: 43.5 kDa

Gene Summary: Contributes to the epidermal integrity and skin barrier function. Plays a role in the lamellar granule (LG) secretory system and in the stratum corneum (SC) epithelial cell formation (By similarity).[UniProtKB/Swiss-Prot Function]

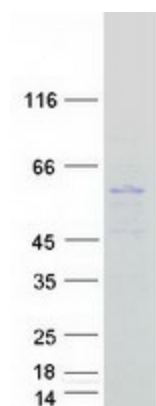
Product images:



Circular map for RC202998



Western blot validation of overexpression lysate (Cat# [LY410199]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202998 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TMEM79 protein (Cat# [TP302998]). The protein was produced from HEK293T cells transfected with TMEM79 cDNA clone (Cat# RC202998) using MegaTran 2.0 (Cat# [TT210002]).