

Product datasheet for RC210140

TM4SF5 (NM_003963) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TM4SF5 (NM_003963) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TM4SF5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC210140 representing NM_003963
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGTACGGGAAAATGTGCCCGCTGTGTGGGGCTCTCCCTCATTACCCTCTGCCTCGTCTGCATTGTGG
 CCAACGCCCTCTGTGGTACCTAATGGGGAGACCTCTGGACCAACACCAACCATCTCAGCTTGAAGT
 CTGGCTCATGGGCGGCTTCATTGGCGGGGGCCTAATGGTACTGTGTCCAGGGATTGCAGCCGTTCCGGCA
 GGGGCAAGGGCTGTGTGGTGGTGGTGTGGTAAACCGCTGCAGGATGCTGCGCTCGGTCTTCTCCT
 CGGCTTCGGGGTCTTGGTGCCATCTACTGCCCTCTCGGTGTCTGGAGCTGGGCTCCGAAATGGACCCAG
 ATGCTTAATGAACGGCGAGTGGGGCTACCACTTCGAAGACACCGCGGGAGCTTACTTGCTCAACCCCACT
 CTATGGGATCGGTGCGAGGCGCCCTCGCGTGGTCCCTGGAATGTGACGCTCTTCTCGCTGCTGGTGG
 CCGCCTCTGCCTGGAGATAGTACTGTGTGGGATCCAGCTGGTGAACGCGACCATTGGTGTCTTCTCGCG
 CGATTGCAGGAAAAACAGGACCCCTCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC210140 representing NM_003963
 Red=Cloning site Green=Tags(s)

MCTGKCARCVGLSLITLCLVCIVANALLLPNGETSWTNTNHLVLQVWLMGGFIGGGLMVLCPGIAAVRA
 GGKCCGAGCCGNRCMLRSVFSAFGVLGAIYCLSVSGAGLRNGPRCLMNGEWGYHFEDTAGAYLLNRT
 LWDRCEAPPRVVPWNVTLFSLVAASCLEIVLCGIQLVNATIGVFCGDCRKKQDTPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: NM_003963

ORF Size: 591 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_003963.3](#)

RefSeq Size: 708 bp

RefSeq ORF: 594 bp

Locus ID: 9032

UniProt ID: [O14894](#)

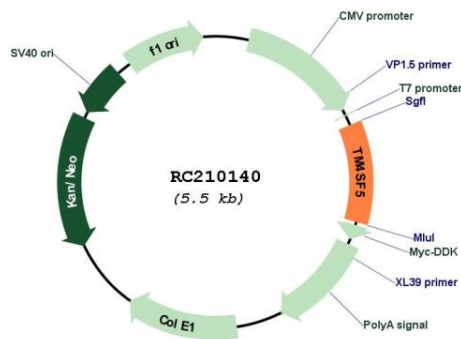
Cytogenetics: 17p13.2

Protein Families: Transmembrane

MW: 20.6 kDa

Gene Summary: The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. This encoded protein is a cell surface glycoprotein and is highly similar in sequence and structure to transmembrane 4 superfamily member 1. It may play a role in cell proliferation, and overexpression of this protein may be associated with the uncontrolled growth of tumour cells. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210140