OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC200346

TM4SF4 (NM_004617) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TM4SF4 (NM_004617) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TM4SF4
Synonyms:	il-TMP; ILTMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200346 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGCACTGGGGGCTGTGCCAGATGCCTGGGGGGGACCCTCATTCCCCTTGCTTTTTTTGGCTTCCTGG
CTAACATCCTGTTATTTTTTCCTGGAGGAAAAGTGATAGATGACAACGACCACCTTTCCCAAGAGATCTG
GTTTTTCGGAGGAATATTAGGAAGCGGTGTCTTGATGATCTTCCCTGCGCTGGTGTTCTTGGGCCTGAAG
AACAATGACTGCTGTGGGTGCTGCGGCAACGAGGGCTGTGGGAAGCGATTTGCGATGTTCACCTCCACGA
TATTTGCTGTGGTTGGATTCTTGGGAGCTGGATACTCGTTTATCATCTCAGCCATTTCAATCAACAAGGG
TCCTAAATGCCTCATGGCCAATAGTACATGGGGCTACCCCTTCCACGACGGGGATTATCTCAATGATGAG
GCCTTATGGAACAAGTGCCGAGAGCCTCTCAATGTGGTTCCCTGGAATCTGACCCTCTTCTCCATCCTGC
TGGTCGTAGGAGGAATCCAGATGGTTCTCTGCGCCATCCAGGTGGTCAATGGCCTCCTGGGGACCCTCTG
TGGGGACTGCCAGTGTTGTGGCTGCTGTGGGGGAGATGGACCCGTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200346 protein sequence
Red=Cloning site Green=Tags(s)

MCTGGCARCLGGTLIPLAFFGFLANILLFFPGGKVIDDNDHLSQEIWFFGGILGSGVLMIFPALVFLGLK
NNDCCGCCGNEGCGKRFAMFTSTIFAVVGFLGAGYSFIISAISINKGPKCLMANSTWGYPFHDGDYLNDE
ALWNKCREPLNVVPWNLTLFSILLVVGGIQMVLCAIQVVNGLLGTLCGDCQCCGCCGGDGPV

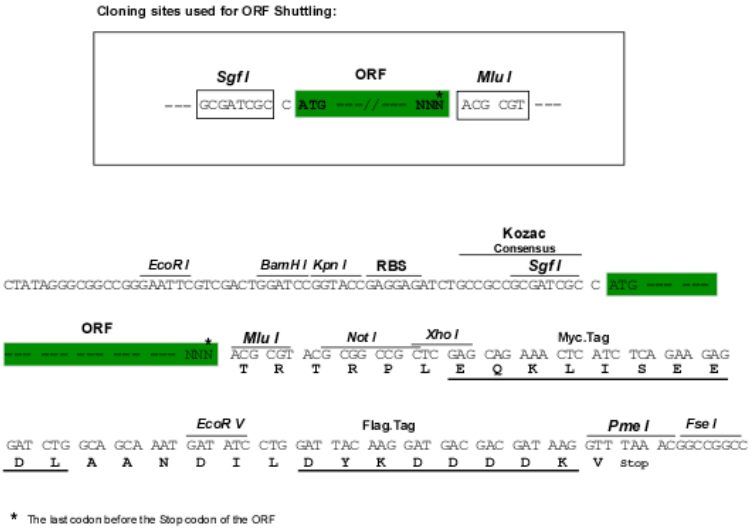
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

View online »

Chromatograms: https://cdn.origene.com/chromatograms/mk6385_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004617

ORF Size: 606 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_004617.4

RefSeq Size: 1624 bp

RefSeq ORF: 609 bp

Locus ID: 7104

UniProt ID: P48230

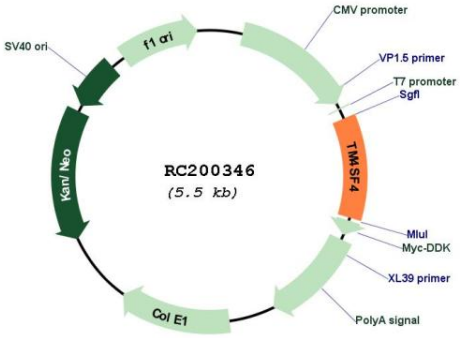
Cytogenetics: 3q25.1

Protein Families: Transmembrane

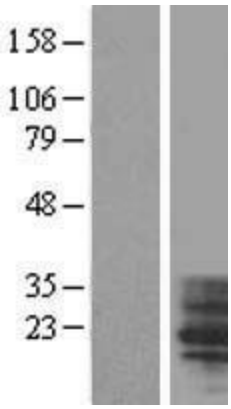
MW: 21.4 kDa

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 that can regulate cell proliferation.[provided by RefSeq, Mar 2011]

Product images:



Circular map for RC200346



Western blot validation of overexpression lysate (Cat# [LY417873]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200346 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).