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Product datasheet for RC203736

TMEFF2 (NM_016192) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEFF2 (NM_016192) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEFF2
Synonyms:	CT120.2; HPP1; TENB2; TPEF; TR; TR-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203736 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGCTGTGGGAGTCCCCGCGGCAGTGCAGCAGCTGGACACTTTGCGAGGGCTTTTGCTGGCTGCTGC
TGCTGCCCGTCATGCTACTCATCGTAGCCCGCCCGGTGAAGCTCGCTGCTTTCCCTACCTCCTTAAGTGA
CTGCCAAACGCCCACCGGCTGGAATTGCTCTGGTTATGATGACAGAGAAAATGATCTCTTCCTCTGTGAC
ACCAACACCTGTAAATTTGATGGGGAATGTTTAAGAATTGGAGACACTGTGACTTGCGTCTGTCAGTTCA
AGTGCAACAATGACTATGTGCCTGTGTGTGGCTCCAATGGGGAGAGCTACCAGAATGAGTGTTACCTGCG
ACAGGCTGCATGCAAACAGCAGAGTGAGATACTTGTGGTGTCAGAAGGATCATGTGCCACAGATGCAGGA
TCAGGATCTGGAGATGGAGTCCATGAAGGCTCTGGAGAAACTAGTCAAAAGGAGACATCCACCTGTGATA
TTTGCCAGTTTGGTGCAGAATGTGACGAAGATGCCGAGGATGTCTGGTGTGTGTGTAATATTGACTGTTC
TCAAACCAACTTCAATCCCCTCTGCGCTTCTGATGGGAAATCTTATGATAATGCATGCCAAATCAAAGAA
GCATCGTGTCAGAAACAGGAGAAAATTGAAGTCATGTCTTTGGGTCGATGTCAAGATAACACAACTACAA
CTACTAAGTCTGAAGATGGGCATTATGCAAGAACAGATTATGCAGAGAATGCTAACAAATTAGAAGAAAG
TGCCAGAGAACACCACATACCTTGTCCGGAACATTACAATGGCTTCTGCATGCATGGGAAGTGTGAGCAT
TCTATCAATATGCAGGAGCCATCTTGCAGGTGTGATGCTGGTTATACTGGACAACACTGTGAAAAAAAGG
ACTACAGTGTTCTATACGTTGTTCCCGGTCCTGTACGATTTCAGTATGTCTTAATCGCAGCTGTGATTGG
AACAATTCAGATTGCTGTCATCTGTGTGGTGGTCCTCTGCATCACAAGGAAATGCCCCAGAAGCAACAGA
ATTCACAGACAGAAGCAAAATACAGGGCACTACAGTTCAGACAATACAACAAGAGCGTCCACGAGGTTAA
TC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC203736 protein sequence
Red=Cloning site Green=Tags(s)

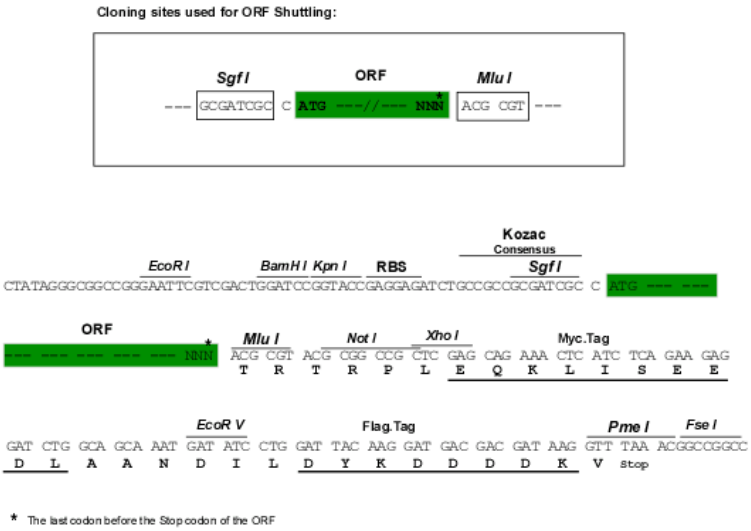
MVLWESPRQCSSWTLCEGFCWLLLLPVMLLIVARPVKLAAFPTSLSDCQTPTGWNCSGYDDRENDLFLCD
TNTCKFDGECLRIGDTVTCVCQFKCNNDYVPVCGSNGESYQNECYLRQAACKQQSEILVVSEGSCATDAG
SGSGDGVHEGSGETSQKETSTCDICQFGAECDEDAEDVWCVCNIDCSQTNFNPLCASDGKSYDNACQIKE
ASCQKQEKIEVMSLGRCQDNTTTTTKSEDGHYARTDYAENANKLEESAREHHIPCPEHYNGFCMHGKCEH
SINMQEPSCRCDAGYTGQHCEKKDYSVLYVVPGPVRFQYVLIAAVIGTIQIAVICVVVLCITRKCPRSNR
IHRQKQNTGHYSSDNTTRASTRLI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6018_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016192

ORF Size: 1122 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.

RefSeq: NM_016192.4

RefSeq Size: 1814 bp

RefSeq ORF: 1125 bp

Locus ID: 23671

UniProt ID: Q9UIK5

Cytogenetics: 2q32.3

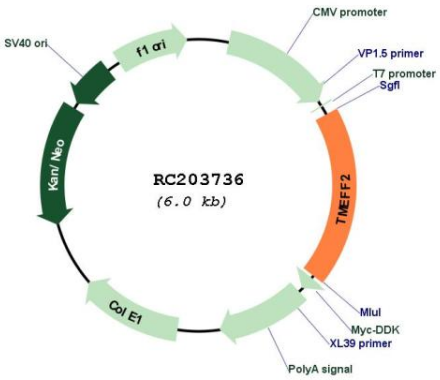
Domains: kazal

Protein Families: Transmembrane

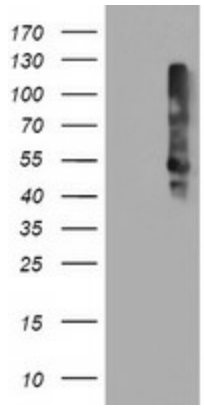
MW: 41.4 kDa

Gene Summary: This gene encodes a member of the tomoregulin family of transmembrane proteins. This protein has been shown to function as both an oncogene and a tumor suppressor depending on the cellular context and may regulate prostate cancer cell invasion. Multiple soluble forms of this protein have been identified that arise from both an alternative splice variant and ectodomain shedding. Additionally, this gene has been found to be hypermethylated in multiple cancer types. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2015]

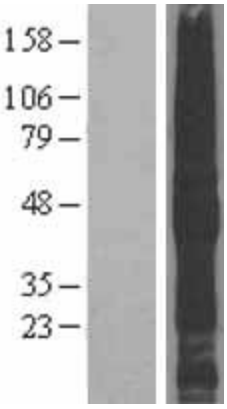
Product images:



Circular map for RC203736



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TMEFF2 (Cat# RC203736, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TMEFF2(Cat# [TA504427]). Positive lysates [LY402517] (100ug) and [LC402517] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402517]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203736 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).