

Product datasheet for **RC226053**

TMEM201 (NM_001130924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TMEM201
Synonyms:	Imal; NET5; SAMP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC226053 representing NM_001130924
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGGGAGTGAGCGCGCTGCTGGCCCGCTGCCCCACGGCCGGCCTGGCCGGCGGCCTGGGGGTACGG
 CGTGCGCCGCGGCCGCGCTGTTGCTCTACCGGATCGCGCGGAGGATGAAGCCAACGCACACGATGGTCAA
 CTGCTGGTTCTGCAACCAGGATACGCTGGTGCCCTATGGGAACCGCAACTGCTGGGACTGTCCCCACTGC
 GAGCAGTACAACGGCTTCCAGGAGAACGGCGACTACAACAAGCCGATCCCCGCCAGTACTTGGAGCACC
 TGAACCACTGGTGAGCAGCGCGCCAGCCTGCGCGACCTTCGCAGCCGACAGTGGGTGAGCAGCCA
 AGTCCTGTGCAAGAGGTGCAACCACCAACCAAGATCAAGCAGCTGGCCGCTTCGCTCCC
 CGCGAGGAGGGCAGGTATGACGAGGAGTCAAGGTGTACCGGCATCACCTGGAGCAGATGTACAAGTGT
 GCCGGCCGTGCCAAGCGCTGTGGAGTACTACATCAAGCACCAGAACCAGTGCAGCCCTGTTGCT
 CAGCCACAGTTCAAGCGCCGGGAGGCCAGCAGACCCACGACAGAACTTCTCTCCGCGTGAAGTCC
 CCGGTCCAGGTATCCTGCTCCGTGCCCTCGCCTTCCTGGCCTGCGCCTTCTACTGACCACGCGCTGT
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 CACATGGCGGAGAAGCTGTGTGAGCCTGGGCTTTGGGAGAGCCAGCAGCGGCGTGTGGCAGTGG
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 CACCTGCCTGTGGCCCTGCTGCTGGGGCTGCACCTGGCTGAGCAGCAGTGCAGGCCGCTCGCCTAGC
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 CAAGGAAGGCAACGGGCCACGGAGGTTCCGGCCCCGAAGTTCTTCCAGGAGACTTGGCGGCTTTT
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 TTCTCTCTTGTGCGGGAGCTGCCCTCTCTCCCACTCCCTTCCCAAGCGCCTTCCGTGGCCGGCTCGG
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 ACAGAAGCTGCTGCTGTTCCCGTCAACCCCTGGAGAGGCCCCACCAAGCCAGCAGCTCCGATGAGCAC
 TCGCCTCACAACGGCAGCCTTTCACCATGGAGCGCCCCATGTTCCCGGAAGCCGCCCTGCAGGACG
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 AGAGGACGACTTCTCCAGTCACTACCTGTGTGGTGGACACCACCAAGGGGCTGCTCGGAGGAGGCC
 GCCACCTGGAGAGGTGTTTCGGCCCTTCCTGGTCCGGGGCTCTGGCCGTGAGCTTGGCCGCCAACG
 CCCTGTTACCTCGGTGTTTCTGTACCAGAGCTGCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226053 representing NM_001130924
 Red=Cloning site Green=Tags(s)

MEGVSALLARCPTAGLAGGLVGTACAAAGVLLYRIARRMKPTHMTVNCWFCNQDTLVPYGNRNCWDCPHC
 EQYNGFQENDYKNKIPAQYLEHLNHHVSSAPSLRDPSPQWVSSQVLLCKRCNHHQTTKIKQLAFAFAP
 REEGRYDEEVEVYRHLEQMYKLCRPCQAAVEYYIKHQNRQLRALLLSHQFKRREADQTHAQNFSSAVKS
 PVQVILLRALAFLACALLTALYAGSHFAPGTTVPLALPPGGNGSATPDNGTTPGAEGRQLLGLLPE
 HMAEKLCEAWAFGQSHQTGVVALGLLTCLLAMLLAGRIRLRRIDAFCTCLWALLGLHLAEQHLQAASPS
 WDLTKFSTTSLCCLVGFTAATVATRKATGPRRFRPRRFFPGDSAGLFPTSPSLAIPHPVSGGSPASLFI
 SPSPFLPLANQQLFRSPRRTSPSSLPGRLSRALSLGTIPSLTRADSGYLFSGSRPPSQVSRSGEFPVSDY
 FSLLSGSCPSSPLPSPAPSVAGSVASSGSLRHRRLPLISPARLNLKQKLLLPSPGAEPTTPSSSDEH
 SPHNGSLFTMEPPHVPRKPLQDVKHALDLRSKLERGSACSNRSIKKEDSSQSSTCVVDTTTRGCSEEA
 ATWRGRFGPSLVRGLLAVSLAANALFTSVFLYQSLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8071_b09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001130924

ORF Size: 1998 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_001130924.3](#)

RefSeq ORF: 2001 bp

Locus ID: 199953

UniProt ID: [Q5SNT2](#)

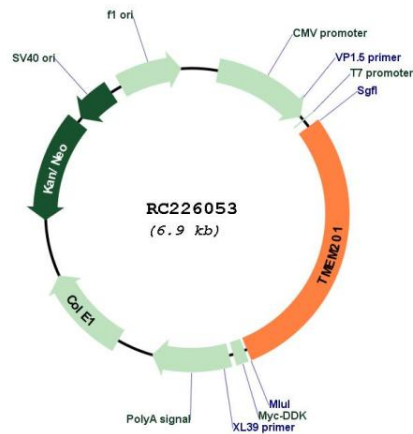
Cytogenetics: 1p36.22

Protein Families: Transmembrane

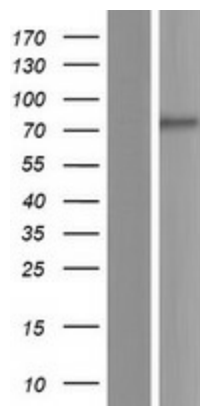
MW: 72.1 kDa

Gene Summary: Involved in nuclear movement during fibroblast polarization and migration. Proposed to be involved in actin-dependent nuclear movement via association with transmembrane actin-associated nuclear (TAN) lines which are bound to F-actin cables and couple the nucleus to retrograde actin flow (By similarity). Overexpression can recruit Ran GTPase to the nuclear periphery (PubMed:27541860).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC226053



Western blot validation of overexpression lysate (Cat# [LY427314]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226053 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).