

Product datasheet for **RG226053**

TMEM201 (NM_001130924) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM201 (NM_001130924) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM201
Synonyms:	Ima1; NET5; SAMP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226053 representing NM_001130924
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGGAGTGAGCGCGCTGCTGGCCCGTCCCCACGGCCGGCTGGCCGGCGCCTGGGGGTACCGG
 CGTGCGCCGCGCGCGCGCTGTTGCTCTACCGGATCGCGCGGAGGATGAAGCCAACGCACACGATGGTCAA
 CTGCTGGTTCTGCAACCAGGATACGCTGGTGCCTATGGGAACCGCAACTGCTGGGACTGTCCCACTGC
 GAGCAGTACAACGGCTTCCAGGAGAACGGCGACTACAACAAGCCGATCCCCGCCAGTACTTGGAGCACC
 TGAACCACGTGGTGAAGCAGCGCGCCAGCCTGCGCGACCCCTTCGAGCCGAGCAGTGGGTGAGCAGCCA
 AGTCTGCTGTGCAAGAGGTGCAACCACCACCAGACCACCAAGATCAAGCAGCTGGCCGCTTCGCTCCC
 CGCGAGGAGGGCAGGTATGACGAGGAGGTGAGGTGTACCGGCATCACCTGGAGCAGATGTACAAGCTGT
 GCCGGCCGTGCCAAGCGCTGTGGAGTACTACATCAAGCACCAGAACCGCCAGCTGCGCGCCTGTTGCT
 CAGCCACCAGTTCAGCGCCGGGAGGCCAGACCAGACCACGCACAGAACTTCTCCTCCGCGTGAAGTCC
 CCGGTCCAGGTATCCTGCTCCGTGCCCTCGCCTTCTGGCCTGCGCCTTCTACTGACCACCGCGCTGT
 ATGGGGCCAGCGGACACTTCGCCCCAGGACCACTGTGCCCTGGCCCTGCCACCTGGTGCAATGGCTC
 AGCCACACCTGACAAATGGCACCACCCCTGGGGCCGAGGGCTGGCGGCAGTTGCTGGGCTACTCCCCGAG
 CACATGGCGGAGAAGCTGTGTGAGGCCTGGGCCTTGGGAGAGCCACCAGAGCGGCGTGTGGCAGTGG
 GCCTACTCACCTGCCTGTGGAATGCTGCTGGCTGGCCGCATCAGGCTCCGGAGGATCGATGCCTTCTG
 CACCTGCCTGTGGGCCCTGCTGCTGGGGCTGCACCTGGCTGAGCAGCACCTGCAGGCCGCTCGCCTAGC
 TGGCTAGACACGCTCAAGTTCAGCACCACATCTTTGTGCTGCCTGGTTGGCTTACGCGCGCTGTGGCCA
 CAAGGAAGGCAACGGGCCACGGAGGTTCCGGCCCCGAAGTTCCTCCAGGAGACTGCGCCGCTTTT
 CCCCACAGCCCCAGCTTGGCCATCCCTCACCCGAGTGTGCGAGGCTCTCCAGCGTCTCTGTTTATCCCC
 AGCCCCGCCAGCTTCTGCCCTCGCAACCAGCAGCTTCCGGTCTCCTCGACGGACCTCACCTCCT
 CATTGCCTGGCCGCTCAGCCGGGCCCTCTCTCTGGAACCATACCCTCTCTGACTCGAGCAGATTACTT
 CTCTCTTCTGTGCGGGAGCTGCCCTCCTCCCCACTCCCTTCCCCAGCGCCTTCCGTGGCCGGCTCGGTG
 GCCTCCAGCTCCGGCTCTCTGCGCCACCGCAGGCCCTCATCAGCCCTGCCCGGCTCAACCTGAAGGGAC
 AGAAGCTGCTGCTTCCCGTACCCCCGGAGAGCCCCACCACGCCAGCAGCTCCGATGAGCACTC
 GCCTCACAAACGGCAGCCTTCCACCATGGAGCCGCCCATGTTCCCCGGAAGCCGCCCTGCAGGACGTG
 AAGCACGCCCTGGACCTGAGATCCAAGCTGGAAGAGGCAGTGCCTGCAGCAACCCTCCATCAAGAAAG
 AGGACGACTTCCCAGTCATCTACCTGTGTGGTGGACACCACCAGGGGCTGCTCGGAGGAGGCCGC
 CACCTGGAGAGGTGTTTTCGGCCCTTCCCTGGTCCGGGGCCTCCTGGCCGTGAGCTTGGCCGCCAACGCC
 CTGTTACCTCGGTGTTTCTGTACCAGAGCCTGCGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226053 representing NM_001130924
 Red=Cloning site Green=Tags(s)

MEGVSALLARCP TAGLAGGLGVTACAAAGVLLYRIARRMKPHTMVCNWF CNQDTLVPYGNRNCWDCPHC
 EQYNGFQENG DYNKPIPAQYLEHLNHVSSAPSLRDPSPQQVWSSQVLLCKRCNHHQTTKIKQLAAFAP
 REEGRYDEEVEVYRHHLEQMYKLCRPCQAAVEYIYIKHQNRQLRALLSHQFKRREADQTHAQNFS SAVKS
 PVQVILLRALAFLACAFLLTTALYGASGHFAPGTTVPLALPPGGNGSATPDNGTTPGAEGWRQLLGLLPE
 HMAEKLCEAWAFGQSHQTVVALGLLTCLLAMLLAGRIRLRRIDAFCTCLWALLLGLHLAEQHLQAASPS
 WLDTLKFSTTSLCCLVGF TAAVATRKATGPRRFRPRRFPGDSAGLFPTSPSLAIPHP SVGGSPASLFI
 PPSFPLANQQLFRSPRRTSPSSLPGRLSRALSLGTIPSLTRADYFSLLSGSCSPSPSPAPSVAGSV
 ASSSGSLRHRRLI SPARLNKLGQKLLLPSPGPEAPTPSSSDEHSPHNGSLFTMEPPHVPRKPLQDV
 KHALDLRSKLERGSACSNRSIKKEDDSSQSSTCVVDTTTRGCSEEAATWRGRFGPSLVRGLLAVSLAANA
 LFTSVFLYQSLR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001130924

ORF Size: 1926 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_001130924.1](#), [NP_001124396.1](#)

RefSeq Size: 3740 bp

RefSeq ORF: 2001 bp

Locus ID: 199953

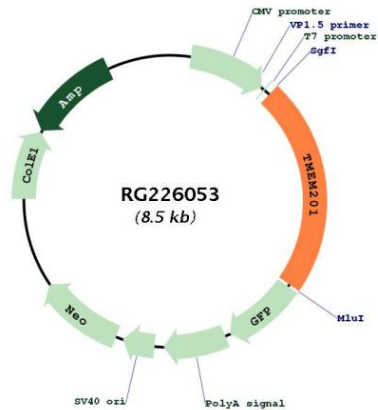
UniProt ID: [Q5SNT2](#)

Cytogenetics: 1p36.22

Protein Families: Transmembrane

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 RG226053