

Product datasheet for **RG202675**

TMEM161A (NM_017814) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM161A (NM_017814) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM161A
Synonyms:	AROS-29; AROS29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202675 representing NM_017814
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGTCTCGGAGTACAGCTGGTGGTGACCCTGCTCACTGCCACCCTCATGCACAGGCTGGCGCCAC
 ACTGCTCCTTCGCGCGCTGGCTGCTCTGTAAACGGCAGTTTGTTCGATACAAGCACCCGTCTGAGGAGGA
 GCTTCGGGCCCTGGCGGGAAGCCGAGGCCAGAGGCAGGAAAGAGCGGTGGGCCAATGGCCTTAGTGAG
 GAGAAGCCACTGTCTGTGCCCGAGATGCCCGTTCCAGCTGGAGACCTGCCCCCTCACGACCGTGGATG
 CCCTGGTCTGCGCTTCTCCTGGAGTACCAGTGGTTTGTGGACTTTGCTGTGTACTCGGCGCGCTGTA
 CCTCTTCACAGAGGCTACTACTACATGCTGGGACCAGCCAAGGAGACTAACATTGCTGTGTTCTGGTGC
 CTGCTCACAGTGACCTTCTCCATCAAGATGTTCTGACAGTGACACGGCTGACTTCAGCGCCGAGGAGG
 GGGGTGAGCGCTCTGTGCTCACCTTTGCCTTCTCTCTGCTGCTGGCCATGCTGGTCAAGTGGT
 GCGGGAGGAGACCCTCGAGCTGGGCTGGAGCCTGGTCTGGCCAGCATGACCCAGAACTTAGAGCCACTT
 CTGAAGAAGCAGGGCTGGGACTGGGCGCTTCTGTGGCCAAGCTGGCTATCCGCGTGGGACTGGCAGTGG
 TGGGCTCTGTGCTGGGTGCCCTTCTCACCTTCCAGGCCTGCGGCTGGCCAGACCCACCGGGACGCACT
 GACCATGTGCGAGGACAGACCCATGCTGCAGTTCCTCCTGCACACCAGCTTCTGTCTCCCTGTTTCATC
 CTGTGGCTCTGGACAAAGCCCATTCACGGGACTTCTGCACAGCCGCGCTTGGGGAGACGCGTTTCT
 CCCTGCTGTCCGATTCTGCCTTCGACTCTGGGCGCCTCTGGTGTGCTGGTGGTGTGCTGCTGCTGCGGT
 GGCGGTGACCCGGCCCACTGCAGGCCCTACCTGTGCTGGCCAAGGCCCGGGTGGAGCAGCTGCGAAGG
 GAGGCTGGCCGCATCGAAGCCCGTGAATCCAGCAGAGGGTGGTCCGAGTCTACTGCTATGTGACCGTGG
 TGAGCTTGCACTACCTGACGCCGCTCATCTCACCTCACTGCACACTTCTGCTCAAGACGCTGGGAGG
 CTATTCCTGGGGCTGGGCCAGCTCCTCTACTATCCCCGACCCATCCTCAGCCAGCGCTGCCCCCATC
 GGCTCTGGGGAGGACGAAGTCCAGCAGACTGCAGCGCGATTGCCGGGGCCCTGGGTGGCCTGCTTACTC
 CCCTCTTCTCCTGCGTGGCCTCCTGGCCTACCTCATCTGGTGGACGGCTGCCTGCCAGCTGCTGCCAGCCT
 TTTCGGCCTCTACTTCCACCAGCACTTGGCAGGCTCC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

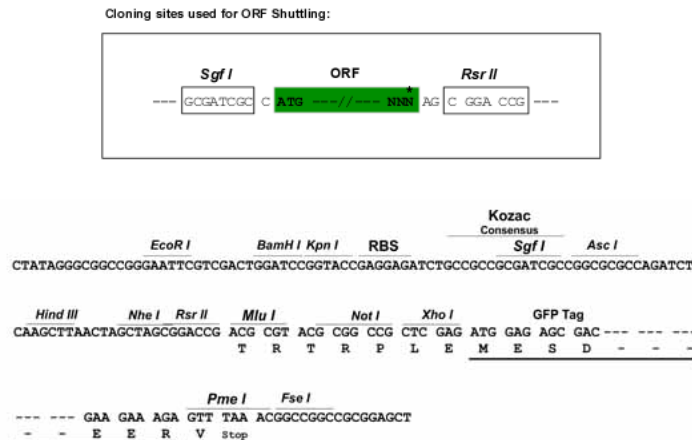
>RG202675 representing NM_017814
 Red=Cloning site Green=Tags(s)

MAVLGVQLVVTLLTATLMHRLAPHCSFARWLLCNGSLFRYKHPSEELRALAGKPRPRGRKERWANGLSE
 EKPLSVPRDAPFQLETCLPTTVDALVLRFFLEYQWVDFAVYSGGVYLFTEAYYYMLGPAKETNIAVFWC
 LLTVTFSIKMFLTVTRLFYSAEEGGERSVCLTFAFLFLLLAMLVQVVREETLELGLPEGLASMTQNLEPL
 LKKQGDWALPVAKLAIKRVGLAVVGSVLGAFLTFPGLRLAQTHRDALTMSEDRPMLQFLLHTSFLSPLFI
 LWLWTKPIARDFLHQPPFGETRFSLLSDSAFDSGRLWLLVVLCLLRLAVTRPHLQAYLCLAKARVEQLRR
 EAGRIEAREIQQRVVRVYCYVTVVSLLQYLTPILTLNCTLLKTLGGYSWGLGPAPLLSPDPSSASAAP
 IGSGEDEVQQTAAARIAGALGGLLTPLFLRGVLAYLIWWTAAQCQLLASLFGLYFHQHLA

SGP**TRTRRLE** – GFP Tag – V

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_017814

ORF Size: 1437 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_017814.1](#), [NP_060284.1](#)

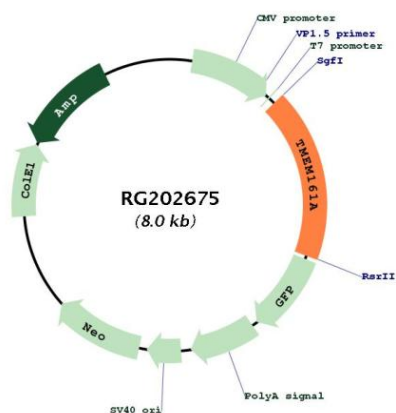
RefSeq Size: 1795 bp

RefSeq ORF: 1440 bp

Locus ID: 54929

UniProt ID:	<u>Q9NX61</u>
Cytogenetics:	19p13.11
Protein Families:	Transmembrane
Gene Summary:	May play a role in protection against oxidative stress. Overexpression leads to reduced levels of oxidant-induced DNA damage and apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202675