

Product datasheet for **RG234411**

TMEM16K (ANO10) (NM_001204833) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM16K (ANO10) (NM_001204833) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TMEM16K
Synonyms:	SCAR10; TMEM16K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234411 representing NM_001204833
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGAAAGTGACCTTATCAGCTTTGGATACTTCTGAGAGTTCTTTACACCTTTGGTGGTCATAGAACTTG
 CTCAGGATGTCAAAGAAGAAACCAAGAATGGCTGAAAAACAGAATTATAGCTAAAAAAGATGGAGT
 GAGAAGATTGCTCAGCTCTGGCATCGTGATTGAGTGTTCCTGCTGACAGTGAAGCCCTGAAGAAG
 CTTGAGGACACCTGGTACACTCGGTTTGCTTTGAAGTATCAGCCCATAGACAGTATTCGTGGCTACTTTG
 GGGAAACAATTGCTCTGACTTTGGATTTTGGAGTATTTCACTTTTGCATTAATCCCCATGGCTGTCAT
 TGGGTTACCTTACTACTTGTGTGTGGGAAGACTATGACAAGTACGTGATCTTGCCTCGTTCAACCTC
 ATCTGGTCCACGGTGATTCTGGAAGTGTGAAGCGTGGCTGTGCCAATGACCTACAGGTGGGGGACAC
 TGCTCATGAAGAGAAAGTTTGAAGAGCCCGGCCAGGATTCATGGTGTCTTGGGTATCAATTCCATCAC
 TGGGAAGGAGGAGCCTCTGTACCCAGCTACAAGAGACAGTTGCGCATTTACCTGGTCTCCCTGCCATTC
 GTGTGCCTCTGCCTCTATTTCTCACTGTATGTCATGATGATTTACTTCGACATGGAGTTTGGGCCTTGG
 GTCTACATGAGAACAGCGGGTCTGAGTGGACAGTGTCCTGTTGTATGTGCCAGCATCATCTATGCCAT
 TGTGATTGAGATCATGAATCGTCTCTATCGATATGCTGCCGAGTTTTAACTTCATGGGAGAATCACAGA
 TTGGAATCTGCCTATCAGAACCTCTAATTCTGAAAGTTTTAGTGTTCAACTTCCTCAATTGCTTTGCCCT
 CACTCTTCTATATTGCCTTTGTCTTGAAGATATGAAGCTTTTGCGCCAGAGCTTGGCCACTCTCCTAAT
 TACCTCCAGATCCTCAACCAATTATGGAATCTTTCTCCTTATTGGTCCAAAGGAAGCATGGTGTG
 CGGGTGAAGAGGAAGGTGCAGGCTTTAAAGGCAGACATTGATGCTACATTATATGAACAAGTCATCCTGG
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 GGCAGTTGGCTTTTGAACGATGAGTGTATATCTGTGGTCACTAACTGTGCGCTGATTGGAATGTCACC
 ACAAGTGAATGCAGTCTTCCAGAATCAAAGCAGACCTCATTTTGATTGTAGTAGCAGTGGAGCACGCA
 CTCCTGGCTTTAAAGTTTATACTTGCAATTTGCCATACCTGATAAGCCACGGCATATCCAGATGAACTAG
 CCAGACTGGAATTTGAGTCTTTGGAGGCACTCAAGCAGCAGCAATGAAGCTCGTGACCGAGAACCTGAA
 GGAGGAACCAATGAAAGCGGGAAGGAGAAGGCAACC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

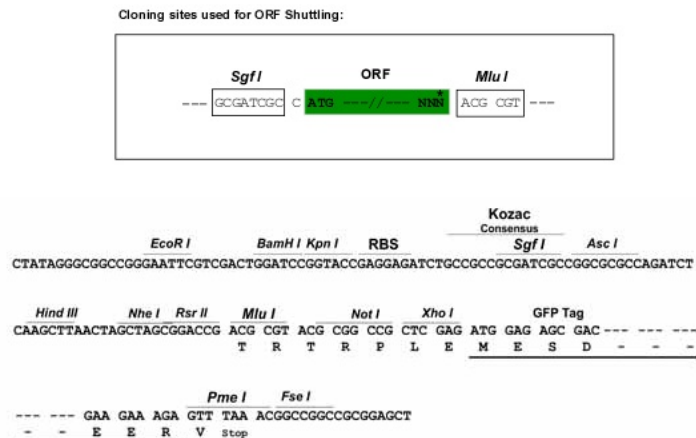
>RG234411 representing NM_001204833
 Red=Cloning site Green=Tags(s)

MKVTLSDLTSESSFTPLVVIELAQDVKEETKEWLKNRIIAKKKDGVRRLTSGIIVQVFLPHDSEALKK
 LEDTWYTRFALKYQPIDSIIRGYFGETIALYFGFLEYFTFALIPMAVIGLPYYLFWWEDYDKYVIFASFNL
 IWSTVILELWKRGCANMTYRWGTLMLKRFEEPRPGFHVGLGINSITGKEEPLPSYKRQLRIYLVSLPF
 VCLCLYFSLYVMMIYFDMEVWALGLHENSSEWTSVLLYVPSIIYAIVIEIMNRLYRYAAEFLTSWENHR
 LESAYQNHLILKVLVFNFLNCFASLFYIAFVLKDMKLLRQSLATLLITSQILNQIMESFLPYWLQRKHGV
 RVKRKVQALKADIDATLYEQVILEKEMGTYLGTDDYLELFLQFGYVSLFSCVYPLAAFAVLNNFTEVN
 SDALKMCRVFKRPFSEPSANIGVWQLAFETMSVISVVTNCALIGMSPQVNAVFPESKADLILIVVAVEHA
 LLALKFILAFIPDKPRHIQMKLARLEFESLEALKQQQMKLVTENLKEEPMESGKEKAT

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001204833

ORF Size: 1647 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_001204833.2](#)

RefSeq Size: 2410 bp

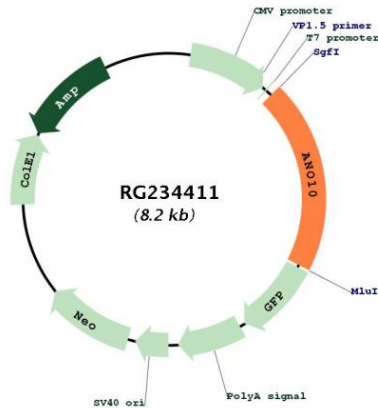
RefSeq ORF: 1650 bp

Locus ID: 55129

UniProt ID: [Q9NW15](#)

Cytogenetics:	3p22.1-p21.33
Protein Families:	Transmembrane
Gene Summary:	The transmembrane protein encoded by this gene belongs to the anoctamin family of calcium-activated chloride channels, also known as the transmembrane 16 family. The encoded protein contains eight transmembrane domains with cytosolic N- and C-termini. Defects in this gene may cause autosomal recessive spinocerebellar ataxia-10. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]

Product images:



Circular map for RG234411