

Product datasheet for **RC234411**

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:	Myc-DDK
Symbol:	TMEM16K
Synonyms:	SCAR10; TMEM16K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC234411 representing NM_001204833
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAAGTGACCTTATCAGCTTTGGATACTTCTGAGAGTTCTTTACACCTTTGGTGGTCATAGAAGTTG
 CTCAGGATGTCAAAGAAGAAACCAAGAATGGCTGAAAAACAGAATTATAGCTAAAAAAAAGATGGAGT
 GAGAAGATTGCTCAGCTCTGGCATCGTGATTACAGGTGTTTCCACTGCATGACAGTGAAGCCCTGAAGAAG
 CTTGAGGACACCTGGTACACTCGGTTTGTCTTGAAGTATCAGCCATAGACAGTATTCGTGGCTACTTTG
 GGGAAACAATTGCTCTGTACTTTGGATTTTGGAGTATTCACCTTTGCATTAATCCCCATGGCTGTCAT
 TGGGTTACCTTACTACTTGTGTGGGAAGACTATGACAAGTACGTGATCTTTGCCTCGTTCAACCTC
 ATCTGGTCCACGGTGATTCTGGAAGTGTGAAGCGTGGCTGTGCCAATGACCTACAGTGGGGGACAC
 TGCTCATGAAGAGAAAGTTTGGAGCCCCGGCCAGGATTCATGGTGTCTTGGGATCAATTCCATCAC
 TGGGAAGGAGGAGCCTCTGTACCCAGCTACAAGAGACAGTTGCGCATTTACCTGGTCTCCCTGCCATTC
 GTGTGCCTCTGCCTCTATTTCTCACTGTATGTCATGATGATTTACTTCGACATGGAGTTTGGGCCCTGG
 GTCTACATGAGAACAGCGGGTCTGAGTGGACCAGTGCCTGTTGTATGTGCCAGCATCATCTATGCCAT
 TGTGATTGAGATCATGAATCGTCTCTATCGATATGCTGCCGAGTTTTAACTTCATGGGAGAATCACAGA
 TTGGAATCTGCCTATCAGAACCTCTAATTCTGAAAGTTTTAGTGTCAACTTCCTCAATTGCTTTGCCCT
 CACTCTTCTATATTGCCTTTGTCTTGAAGATATGAAGCTTTTGCGCCAGAGCTTGGCCACTCTCCTAAT
 TACCTCCCAGATCCTCAACCAATTATGGAATCTTTCTCCTTATTGGCTCAAAGGAAGCATGGTGTG
 CGGGTGAAGAGGAAGGTGCAGGCTTTAAGGCAGACATTGATGCTACATTATATGAACAAGTCATCCTGG
 AAAAAGAAATGGGAAGTATTTGGGCACCTTTGATGATTACTTGGAGTTATTCCTGCAGTTGGTTATGT
 GAGCCTTTTCTCCTGTGTTTACCCATTAGCAGCTGCCTTTGCTGTGTTAAATAACTTCAGTGAAGTAAAT
 TCAGATGCCTTAAAAATGTGCAGGGTCTTCAAACGTCCATTCTCAGAACCTTCAGCCAATATTGGTGTG
 GGCAGTTGGCTTTGAAACGATGAGTGTATATCTGTGGTCACTAACTGTGCGCTGATTGGAATGTCACC
 ACAAGTGAATGCAGTCTTCCAGAATCAAAGCAGACCTCATTTTGATTGTAGTAGCAGTGGAGCACGCA
 CTCCTGGCTTTAAAGTTTATACTTGCAATTTGCCATACCTGATAAGCCACGGCATATCCAGATGAACTAG
 CCAGACTGGAATTTGAGTCTTTGGAGGCACTCAAGCAGCAGCAAATGAAGCTCGTGACCGAGAACCTGAA
 GGAGGAACCAATGAAAGCGGGAAGGAGAAGGCAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234411 representing NM_001204833
 Red=Cloning site Green=Tags(s)

MKVTLSDLTSESSFTPLVVIELAQDVKEETKEWLKNRIIAKKKDGVRRLTSGIIVIQVFLHDSEALKK
 LEDTWYTRFALKYQPIDSIIRGYFGETIALYFGFLEYFTFALIPMAVIGLPYYLFWWEDYDKYVIFASFNL
 IWSTVILELWKRGCANMTYRWGTLMLMKRKFEEPRPGFHVGLGINSITGKEEPLYSYKRQLRIYLVSLPF
 VCLCLYFSLYVMMIYFDMEVWALGLHENSSEWTSVLLYVPSIIYAIIVIEIMNRLYRYAAEFLTSWENHR
 LESAYQNHILKVLVFNFLNCFASLFYIAFVLKDMKLLRQSLATLLITSQILNQIMESFLPYWLQRKHGV
 RVKRKQALKADIDATLYEQVILEKEMGYLGTFFDYLELFLQFGYVSLFSCVYPLAAAFVLLNNFTEVN
 SDALKMCRVFKRPFSEPSANIGVWQLAFETMSVIVSVTNCALIGMSPQVNAVFPESKADLILIVVAVEHA
 LLALKFILAFIPDKPRHIQMKLARLEFESLEALKQQQMKLVTENLKEEPMESGKEKAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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](#)

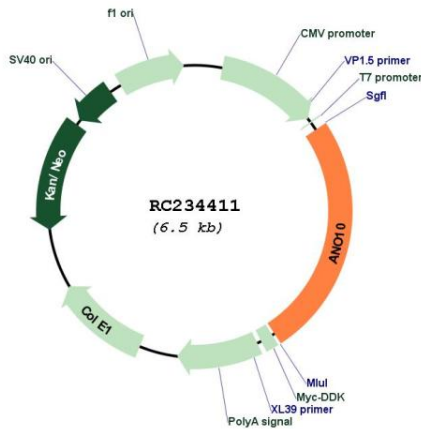
Cytogenetics: 3p22.1-p21.33

Protein Families: Transmembrane

MW: 64 kDa

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 RC234411