

Product datasheet for **RC234598**

TMEM16K (ANO10) (NM_001204831) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM16K (ANO10) (NM_001204831) 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)



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ORF Nucleotide Sequence:

>RC234598 representing NM_001204831
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGAAAGTGACCTTATCAGCTTTGGATACTTCTGAGAGTTCTTTACACCTTTGGTGGTCATAGAAGTTG
 CTCAGGATGTCAAAGAAGAAACCAAGAATGGCTGAAAAACAGAATTATAGCTAAAAAAGATGGAGG
 TGCCAGTTGTTGTTAGACCATTGTTAAATAAATATGAACAAGAACTAGAAAAATCAGAAGTTATAT
 CTTGTTGGTGCCTCCAAGATTAGAATGTTACTAGGGCAGAAAGCAGTGGGATTGGTAAAAGAGTGAATG
 ATAACACCATGAGAGCCTTACATACAGAACAGACAGAAGTTCAAAGTTTTGATGATAACAATGATGA
 TTTCTGACAATGGCAGAATGTCAATTCATTATCAAACATGAAGTTGAAAATCTTAGAGCTAAAGATGAA
 AAAATGATCCCTGGTTACCTCAGGCAAAGTTGTATCCAGGAAAATCATTGTTGAGAAGATTGCTCACGT
 CTGGCATCGTGATTCAAGTGTTCCTGATGACAGTGAAGCCCTGAAGAAGCTTGAGGACACCTGGTA
 CACTCGGTTTGCCTTGAAGTATCAGCCATAGACAGTATTCGTGGCTACTTTGGGAAACAATTGCTCTG
 TACTTTGGATTTTGGAGTATTTCACTTTTGCATTAATCCCATGGCTGTCATTGGGTTACCTTACTACT
 TGTTTGTGTGGGAAGACTATGACAAGTACGTGATCTTTGCCTCGTTCAACCTCATCTGGTCCACGGTGT
 TCTGGAAGTGTGGAAGCGTGGCTGTGCCAATGACCTACAGGTGGGGGACACTGCTCATGAAGAGAAA
 TTTGAGGAGCCCCGGCCAGGATTCATGGTGTCTTGGGTATCAATTCATCACTGGGAAGGAGGAGCCTC
 TGTACCCAGCTACAAGAGACAGTTGCGCATTTACCTGGTCTCCCTGCCATTGCTGTGCCTCTGCCTCTA
 TTTCTCACTGTATGTCATGATGATTTACTTCGACATGGAGTTTGGGCCCTGGGTCTACATGAGAACAGC
 GGGTCTGAGTGGACAGTGTCTGTGTATGTGCCAGCATCATCTATGCCATTGTGATTGAGATCATGA
 ATCGTCTCTATCGATATGCTGCCGAGTTTTAACTTCATGGGAGAATCACAGATTGGAATCGCTATCA
 GAACCATCTAATTCTGAAAGTTTTAGTGTCAACTTCCTCAATTGCTTTGCCTCACTCTTCTATATTGCC
 TTTGTCTTGAAAGATATGAAGCTTTTGCGCCAGAGCTTGCCACTCTCCTAATTACCTCCAGATCTCA
 ACCAAATTATGGAATCTTTTCTTCTTATTGGCTCCAAAGGAAGCATGGTGTGCGGGTGAAGAGGAAGGT
 GCAGGCTTTAAAGGCAGACATTGATGCTACATTATGAACAAGTCATCTGGAAAAAGAAATGGGAAGT
 TATTTGGGCACCTTTGATGATTACTTGGAGTATTCTGACGTTTGGTTATGTGAGCCTTTTCTCTGTG
 TTTACCCATTAGCAGCTGCCTTTGCTGTGTTAAATAACTTCACTGAAGTAAATTCAGATGCCTAAAAAT
 GTGCAGGGTCTCAAACGTCCATTCTCAGAACCTCAGCCAATATTGGTGTGTGGCAGTTGGCTTTTGAA
 ACGATGAGTGTTATATCTGTGGTCACTAACTGTGCGCTGATTGGAATGTCACCACAAGTGAATGCAGTCT
 TTCCAGAATCAAAGCAGACCTCAATTTGATTGTAGTAGCAGTGGAGGCTGCAAGCTGCAAGCTGGTCTC
 TCTCCACGGTATTCATGGAGCACAACACTCAGTGCAGGCACTGTCATAGGCTCTGGGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234598 representing NM_001204831
 Red=Cloning site Green=Tags(s)

MKVTL S ALDTSESSFTPLVVI ELAQDVKEETKEWLNRI IAKKKDGGQALLFRPLL NKYEQETLENQNL Y
 LVGASKIRMLLGAEAVGLVKECNDNTMRAFTYRTRQNFKGFDDNDDFL TMAECQFI IKHELENLRAKDE
 KMIPGYPQAKLYPGKSLRRLLSGIVIQVFLHDSEALKKLEDTWYTRFALKYQPID SIRGYFGETIAL
 YFGFLEYFTFALIPMAVIGLPYYLFWEDYDKYVIFASFNLIWSTVILELWKRGCANMTYRWGTL LMKRK
 FEPRPGFHGVLGINSITGKEEPLYPYKRLRIYLVSLPFVCLCLYFSLYVMMIYFDMEVWALGLHENS
 GSEWTSVLLYVPSIIYAIIVIEIMNRLYRYAAEFLTSWENHRLLESAYQNHILKVLVFNFLNCFASLFYIA
 FVLKDMKLLRQSLATLLITSQILNQIMESFLPYWLQRKHGVRVVRKQVQALKADIDATLYEQVILEKEMGT
 YLGTFFDDYLELFLQFGYVSLFSCVYPLAAAFV LNNFTEVNSDALKMCRVFKRPFSEPSANIGVWQLAFE
 TMSVISVVTNCALIGMSPQVNAVFPESKADLILIVVAVEAASCKLVSLPRYSWSTNSVPGTVIGPGV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001204831

ORF Size: 1881 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_001204831.2](#)

RefSeq Size: 2746 bp

RefSeq ORF: 1884 bp

Locus ID: 55129

UniProt ID: [Q9NW15](#)

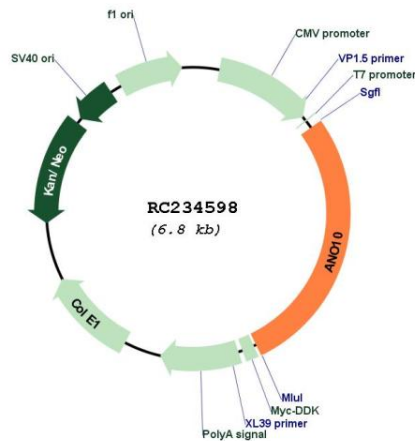
Cytogenetics: 3p22.1-p21.33

Protein Families: Transmembrane

MW: 72.6 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 RC234598