

## Product datasheet for **RG234598**

### **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:	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:**

>RG234598 representing NM\_001204831  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAAGTGACCTTATCAGCTTTGGATACTTCTGAGAGTTCTTTACACCTTTGGTGGTCATAGAATTG  
 CTCAGGATGTCAAAGAAGAAACCAAGAATGGCTGAAAAACAGAATTATAGCTAAAAAAGATGGAGG  
 TGCCAGTTGTTGTTAGACCATTGTTAAATAAATATGAACAAGAACTAGAAAAATCAGAACTTATAT  
 CTTGTTGGTGCCTCCAAGATTAGAATGTTACTAGGGCAGAAGCAGTGGGATTGGTAAAAGAGTGAATG  
 ATAACACCATGAGAGCCTTACATACAGAACCAGACAGAATTCAAAGTTTTGATGATAACAATGATGA  
 TTTCTGACAATGGCAGAATGTCAATTCATTATCAAACATGAACCTGAAAATCTTAGAGCTAAAGATGAA  
 AAAATGATCCCTGGTTACCTCAGGCAAAGTTGTATCCAGGAAAATCATTGTTGAGAAGATTGCTCACGT  
 CTGGCATCGTGATTCAAGTGTTCCTGCTGACAGTGAAGCCCTGAAGAAGCTTGAGGACACCTGGTA  
 CACTCGGTTTGCCTTGAAGTATCAGCCATAGACAGTATTCGTGGCTACTTTGGGAAACAATTGCTCTG  
 TACTTTGGATTTTGGAGTATTTCACTTTTGCATTAATCCCATGGCTGTCATTGGGTTACCTTACTACT  
 TGTTTGTGTGGGAAGACTATGACAAGTACGTGATCTTTGCCTCGTTCAACCTCATCTGGTCCACGGTGT  
 TCTGGAAGTGTGGAAGCGTGGCTGTGCCAATGACCTACAGGTGGGGGACACTGCTCATGAAGAGAAA  
 TTTGAGGAGCCCCGGCCAGGATTCATGGTGTCTTGGGTATCAATTCATCACTGGGAAGGAGGACCTC  
 TGTACCCAGCTACAAGAGACAGTTGCGCATTTACCTGGTCTCCCTGCCATTTCGTGTGCCTCTGCCTCA  
 TTTCTCACTGTATGTCATGATGATTTACTTCGACATGGAGTTTGGGCCCTGGGTCTACATGAGAACAGC  
 GGGTCTGAGTGGACCAGTGTCTGTGTATGTCGCCAGCATCATCTATGCCATTGTGATTGAGATCATGA  
 ATCGTCTCTATCGATATGCTGCCGAGTTTTTAACCTCATGGGAGAATCACAGATTGGAATCTGCATCA  
 GAACCATCTAATTCTGAAAGTTTTAGTGTCAACTTCCTCAATTGCTTTGCCTCACTCTTCTATATTGCC  
 TTTGTCTTGAAAGATATGAAGCTTTTGCGCCAGAGCTTGCCACTCTCCTAATTACCTCCAGATCTCA  
 ACCAAATTATGGAATCTTTTCTCCTTATTGGCTCCAAAGGAAGCATGGTGTGCGGGTGAAGAGGAAGGT  
 GCAGGCTTTAAAGGCAGACATTGATGCTACATTATGAACAAGTCATCCTGGAAAAAGAAATGGGAAC  
 TATTTGGGCACCTTTGATGATTACTTGGAGTATTCTGTCAGTTTGGTTATGTGAGCCTTTTCTCCTGTG  
 TTTACCCATTAGCAGCTGCCTTTGCTGTGTTAAATAACTTCACTGAAGTAAATTCAGATGCCTAAAAAT  
 GTGCAGGGTCTCAAACGTCCATTCTCAGAACCTCAGCCAATATTGGTGTGTGGCAGTTGGCTTTTGAA  
 ACGATGAGTGTATATCTGTGGTCACTAACTGTGCGCTGATTGGAATGTCACCACAAGTGAATGCAGTCT  
 TTCCAGAATCAAAGCAGACCTCAATTTGATTGTAGTAGCAGTGGAGGCTGCAAGCTGCAAGCTGGTCTC  
 TCTCCACGGTATTCATGGAGCACAACCTCAGTGCAGGCACTGTCATAGGCTCTGGGGT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234598 representing NM\_001204831  
 Red=Cloning site Green=Tags(s)

MKVTLSDTSESSFTPLVVIELAQDVKEETKEWLKNRIIAKKKDGAQLLFRPLLNKYEQETLENQNL  
 LVGASKIRMLLGAEAVGLVKECNDNTMRAFTYRTRQNFKGFDDNDDFLTMAECQFIKHELENLRAKDE  
 KMIPGYPQAKLYPGKSLRRLTSGIVIQVPLHDSEALKKLEDTWYTRFALKYQPIDSIRGYFGETIAL  
 YFGFLEYFTFALIPMAVIGLPPYLVWEDYDKYVIFASFNLIWSTVILELWKRGCANMTRYWGTLMLKRR  
 FEEPRPGFHGVLGINSITGKEEPLYPYKRLRIYLVSLPFVCLCLYFSLYVMMIYFDMVWALGLHENS  
 GSEWTSVLLYVPSIIYAIIVIEIMNRLYRYAAEFLTSWENHRLLESAYQNHILKVLVFNFLNCFASLFYIA  
 FVLKDMKLLRQSLATLLITSQILNQIMESFLPYWLQRKHGVRVVRKQVQALKADIDATLYEQVILEKEMGT  
 YLGTFFDYLELFLQFGYVSLFSCYPLAAAFVLLNMFTEVNSDALKMCRVFKRPFSEPSANIGVWQLAFE  
 TMSVISVVTNCALIGMSPQVNAVFPESKADLILIVVAEAAASCKLVSLPRYSWSTNSVPGTVIGPGV

**TRTRPLE** – GFP Tag – V

**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

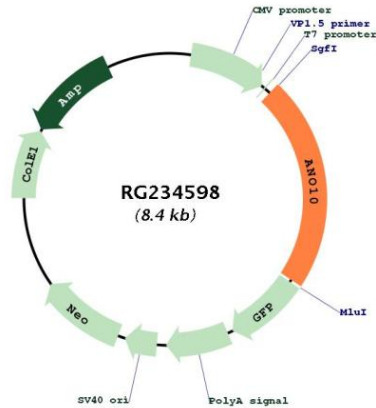
**UniProt ID:** [Q9NW15](#)

Cytogenetics: 3p22.1-p21.33

Protein Families: Transmembrane

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 RG234598