

## Product datasheet for **RG234516**

### **TMEM16K (ANO10) (NM\_001204832) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TMEM16K (ANO10) (NM_001204832) 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:**

>RG234516 representing NM\_001204832  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAAGTGACCTTATCAGCTTTGGATACTTCTGAGAGTTCTTTACACCTTTGGTGGTCATAGAATTG  
 CTCAGGATGTCAAAGAAGAAACCAAGAATGGCTGAAAAACAGAATTATAGCTAAAAAAGATGGAGA  
 TAACAATGATGATTTCTGACAATGGCAGAATGCAATTCATTATCAAACATGAACCTGAAAAATCTTAGA  
 GCTAAAGATGAAAAATGATCCCTGTTACCTCAGGCAAAGTTGTATCCAGGAAAAATCATTGTTGAGAA  
 GATTGCTCACGTCTGGCATCGTGATTACAGTGTTCCTGCTGACAGTGAAGCCCTGAAGAAGCTTGA  
 GGACACCTGGTACACTCGGTTTGTCTTGAAGTATCAGCCCATAGACAGTATTCGTGGCTACTTTGGGGAA  
 ACAATTGCTCTGACTTTGGATTTTGGAGTATTCACCTTTGCATTAATCCCCATGGCTGTCATTGGGT  
 TACCTTACTACTGTTTGTGGGAAGACTATGACAAGTACGTGATCTTGCCTCGTTCAACCTCATCTG  
 GTCACCGTGATTCTGGAAGTGTGAAGCGTGGCTGTGCCAACATGACCTACAGGTGGGGACACTGCTC  
 ATGAAGAGAAAGTTTGGAGAGCCCCGGCCAGGATTCATGGTGTCTTGGGTATCAATCCATCACTGGGA  
 AGGAGGAGCCTCTGTACCCAGCTACAAGAGACAGTTGCGCATTACCTGGTCTCCCTGCCATTCGTGTG  
 CCTCTGCCTCTATTTCTCACTGTATGTCATGATGATTTACTTCGACATGGAGTTTGGGCCTTGGGTCTA  
 CATGAGAACAGCGGGTCTGAGTGGACAGTGTCTGTTGTATGTGCCAGCATCATCTATGCCATTGTGA  
 TTGAGATCATGAATCGTCTCTATCGATATGCTGCCAGTTTTAACTTCATGGGAGAATCACAGATTGGA  
 ATCTGCCTATCAGAACCTCTAATCTGAAAGTTTTAGTGTCAACTTCCTCAATTGCTTTGCCTCACTC  
 TTCTATATTGCCTTTGTCTTGAAGATATGAAGCTTTTGCGCCAGAGCTTGGCCACTCTCCTAATTACCT  
 CCCAGATCCTCAACCAATTATGGAATCTTTTCTCCTTATTGGCTCAAAGGAAGCATGGTGTGCGGGT  
 GAAGAGGAAGGTGCAGGCTTTAAAGGCAGACATTGATGCTACATTATATGAACAAGTCATCCTGGAAAAA  
 GAAATGGGAACCTATTTGGGCACCTTTGATGATTACTTGGAGTTATTCCTGCAGTTTGGTTATGTGAGCC  
 TTTTCTCTGTGTTACCCATTAGCAGCTGCCTTTGCTGTGTTAAATAACTTCACTGAAGTAAATTCAGA  
 TGCCTTAAAAATGTGCAGGGTCTTCAAACGTCCATTCTCAGAACCTCAGCCAATATTGGTGTGTGGCAG  
 TTGGCTTTTGAACGATGAGTGTATATCTGTGGTCACTAACTGTGCGCTGATTGGAATGCACCACAAG  
 TGAATGCAGTCTTCCAGAATCAAAGCAGACCTATTTTATTGATTAGTAGCAGTGGAGCAGCAGTCTCT  
 GGCTTTAAAGTTTATACTTGCAATTTGCCATACCTGATAAGCCACGGCATATCCAGATGAACTAGCCAGA  
 CTGGAATTTGAGTCTTTGGAGGCACTCAAGCAGCAGCAAATGAAGCTCGTGACCGAGAACCTGAAGGAGG  
 AACCAATGGAAAGCGGAAGGAGAAGGCAACC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG234516 representing NM\_001204832  
 Red=Cloning site Green=Tags(s)

MKVTLSDTSESSFTPLVVIELAQDVKEETKEWLKNRIIAKKKDGNDNDDFLTMAECQFIKHELENLR  
 AKDEKMIPGYPQAKLYPGKSLRRLTSGIVIQVPLHDSEALKKLEDTWYTRFALKYQPIDSIRGYFGE  
 TIALYFGFLEYFTFALIPMAVIGLPYYLFWWEDYDKYVIFASFNLWSTVILELWKRGCANMTYRWGTL  
 MKRKFEEPRPGFHVGLGINSITGKEEPLPSYKRQLRIYLVSLPFVCLCLYFSLYMMIYFDMEVWALGL  
 HENSGSEWTSVLLYVPSIIYAIIVIEIMNRLRYAAEFLTSWENHRLSAYQNLILKVLVFNFLNCFASL  
 FYIAFVLKDMKLLRQSLATLLITSQILNQIMESFLPYWLQRKHGVRVVRKQVQALKADIDATLYEQVILEK  
 EMGTYLGTFFDDYLELFLQFGYVSLFSCVYPLAAAFVLLNFTVNSDALKMCRVFKRPFSEPSANIGVWQ  
 LAFETMSVISVVTNCALIGMSPQVNAVFPESKADLILIVVAVEHALLALKFILAFaipdkprhiQMKLAR  
 LEFESLEALKQQMKLV TENLKEEPMESGKEKAT

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001204832

**ORF Size:** 1782 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\\_001204832.2](#)

**RefSeq Size:** 2545 bp

**RefSeq ORF:** 1785 bp

**Locus ID:** 55129

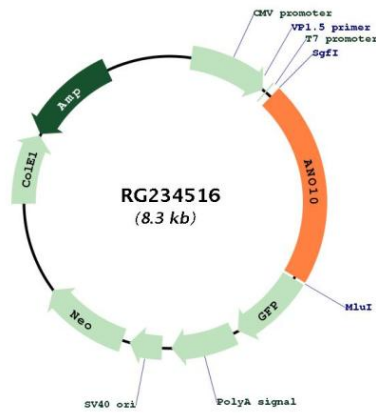
**UniProt ID:** [Q9NW15](#)

**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 RG234516