

Product datasheet for **RC232800**

TMEM16K (ANO10) (NM_001204834) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM16K (ANO10) (NM_001204834) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANO10
Synonyms:	SCAR10; TMEM16K
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RC232800 representing NM_001204834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAAGTGACCTTATCAGCTTTGGATACTTCTGAGAGTTCTTTACACCTTTGGTGGTCATAGAAGTTG
 CTCAGGATGTCAAAGAAGAAACCAAGAATGGCTGAAAAACAGAATTATAGCTAAAAAAGATGGAGG
 TGCCAGTTGTTGTTAGACCATTGTTAAATAAATATGAACAAGAACTAGAAAAATCAGAAGTTATAT
 CTTGTTGGTGCCTCAAGATTAGAATGTTACTAGGGCAGAAAGCAGTGGGATTGGTAAAAGAGTGAATG
 ATAACACCATGAGAGCCTTACATACAGAACCAGACAGAAGTTCAAAGTTTTGATGATAACAATGATGA
 TTTCTGACAATGGCAGAATGTCAATTCATTATCAAACATGAAGTTGAAAATCTTAGAGCTAAAGATGAA
 AAAATGATCCCTGGTTACCTCAGGCAAAGTTGTATCCAGGAAAATCATTGTTGAGAAGATTGCTCACGT
 CTGGCATCGTGATTCAAGTGTTCCTGATGACAGTGAAGCCCTGAAGAAGCTTGAGGACACCTGGTA
 CACTCGGTTTGTGTTGAAGTATCAGCCATAGAGAATCACAGATTGGAATCTGCCTATCAGAACCATCTA
 ATTCTGAAAGTTTTAGTGTCAACTTCCTCAATTGCTTTGCCTCACTCTTCTATATTGCCTTTGTCTTGA
 AAGATATGAAGCTTTTGCAGAGCTTGGCCACTCTCCTAATTACCTCCAGATCCTCAACCAAAATTAT
 GGAATCTTTTCTTCTTATTGGCTCAAAGGAAGCATGGTGTGCGGGTGAAGAGGAAGGTGCAGGCTTTA
 AAGGCAGACATTGATGCTACATTATATGAACAAGTCATCTGGAAAAAGAAATGGGAAGTTATTTGGGCA
 CCTTTGATGATTACTTGGAGTTATTCTGCAGTTTGGTTATGTGAGCCTTTTCTCTGTGTTTACCATT
 AGCAGTGCCTTTGCTGTGTTAAATAAATTCAGTGAAGTAAATTCAGATGCCTTAAAAATGTGCAGGTC
 TTCAAACGTCCATTCTCAGAACCCTCAGCAATATTGGTGTGTCAGTGGCTTTTGAACGATGAGTG
 TTATATCTGTGGTCACTAACTGTGCGCTGATTGGAATGTCAACCAAGTGAATGCAGTCTTTCCAGAAT
 AAAAGCAGACCTCATTTTGAATTGTAGTAGCAGTGGAGCAGCAGTCTGGCTTTAAAGTTTATACTTGCA
 TTTGCCATACCTGATAAGCCACGGCATATCCAGATGAAACTAGCCAGACTGGAATTTGAGTCTTTGGAGG
 CACTCAAGCAGCAGCAAATGAAGCTCGTGACCGAGAACCCTGAAGGAGGAACCAATGGAAAGCGGGAAGGA
 GAAGGCAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC232800 representing NM_001204834
 Red=Cloning site Green=Tags(s)

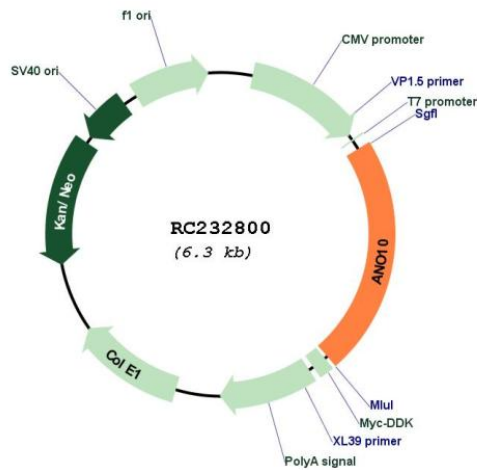
MKVTL~~SALD~~SESSFTPLVVI~~ELAQ~~DVKEETKEWLKNRIIAKKKDGG~~AQLLFR~~PLLNKYEQETLENQNL~~Y~~
 LVGASKIRMLLGA~~EAVGLV~~KECNDNTMRAFTYRTRQNF~~KGFDDN~~DDFLTMAECQFI~~IKHE~~LENLRAKDE
 KMIPGYPQAKLYPGKSL~~LRLLT~~SGIVIQVPLHDSEALKKLED~~TWYTRF~~ALKYQPIENH~~RLESAY~~QNH
 ILKVLVFNFLNCFASLFYIAFVLKDMKLLRQSLATLLITSQILNQIMESFLPYWLQRKHGVRV~~KRVQAL~~
 KADIDATLYEQVILEKEMGTYLGTFFDYLELFLQFGYVSLFSCVYPLAAAFV~~LNNFTEV~~NSDALKMCRV
 FKRPFSEPSANIGVWQLAFETMSVISVVTN~~CALIGM~~SQVNAVFPESKADLILIVVAVEHALLALKFILA
 FAIPDKPRHIQMKLARLEFESLEALKQQQMKLV~~TENL~~KEEPMESGKEKAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Plasmid Map:


ACCN: NM_001204834

ORF Size: 1410 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_001204834.2](#)

RefSeq Size: 2173 bp

RefSeq ORF: 1413 bp

Locus ID: 55129

UniProt ID: [Q9NW15](#)

Cytogenetics: 3p22.1-p21.33

Protein Families: Transmembrane

MW: 54.3 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]