

Product datasheet for **MR219834**

Ano10 (NM_133979) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano10 (NM_133979) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ano10
Synonyms:	AI604832; Tmem16k
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR219834 representing NM_133979, **codon optimized**.
Due to the complexity of NM_133979, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGTGACGTTGAGCACCTGGATACCTGCGAGTCTTCTTTACACCCTTGGTGGTAATCGAACTGG
 CTCAGGACGTGAAGGATGAGACAAAAGAATGGCTGAAAAATCGCATATTGCAAAGAAGAAAGACGGGG
 AGCACAGTTGCTGTTCCGCCACTGCTGAATAAGTATGAAAAGGAGACCCTCGAGAATCAGAACCTCTAC
 CTCGTGGGTGCTAGCAATGTGCGGCTCCTTCTTGGCGCTGAGGCAGTGGGACTGGTAAAAGAGTGTACTG
 ATGCCGCTATGCGAGCATTACTTATGGCACAAGACACAACCTTTAAGGGCTTTCAGGACAACAATAATGA
 TTTTCTGACAATGGCCGAGTGCCAGTTCATCATCAAGCACGAGCTGGAGAACCTTAGAGCTCGAGATGAG
 AAGATGATCCCTGGGTATCCTCAGGCTAAACTGTACCCAGGAAAACTCTGATGCGGCGATTGCTGACTA
 GTGGAATTGTCACCCAGGTGTTCCACTCCACGACACTGAAGCTCTCAAAAAGTTGGAGGACACCTGGTA
 TACCCGGTTGCGATTGAAGTATCAGCCCATCGATAGCATCAGAAGCTATTTTGGCGAAACATTGCACTC
 TATTTTGGCTTTTTGGAGATTTTACATTTGCACTGATCCCTATGGCGATAATTGGACTCCCCTACTACC
 TCTTTGTGTGGGAAGATTATGATAAGTATGTTATCTTTGCCAGCTTCAATCTCATTGGTCAACTGTAAT
 CCTCGAGGTGTGGAAGCGGGGATGCGCTAACATGACTTATCGATGGGGGACGCTGGTGATGAAGCGCCAG
 TTTGAAGAGCCACGCCCTGGTTTTTCATGGAGTTCTGGGCATTAACAGTGTACAGGGAGGGAAGAGCCAC
 TCTATAGTTCTTACAAGAGACAGCTGAGAATCTATCTGGTGAGCCTGCCCTTTGTGTGCCTGTGCCTGTA
 TTTTAGTCTGTATGTGATGATGATATATTTTCGACATGGAAGACTGGGCACTGTCCTTGCATGAAGACTCA
 GGTTTCAGAATGGACAAGCCTGTTGCTGTACGTTCCAAGTATCGTCTACGCAGTGGTGATAGAGATCATGA
 ATAGACTGTATCGGTACGCCGAGAGTTCCTTACCAGCTGGGAGAACCACCGGTTGGAGTCCGCTTACCA
 GAACCACCTGGTGTGAAAGTCTGGTTTTCAACTTTTTGAACTGCTTTGCCAGCCTCTTTTATATAGCT
 TTTGTGCTGAAAGATATGAAACTGTTGAGACAGTCTCTGGCAACATTGCTGATCACCTCACAGATACTGA
 ATCAAGTGGTGAATCACTGCTTCCCTATTGGCTGCAACGGAAGTACTGCGCACGGGTTAAAAGGAAAGT
 GCAGGCTCTCAAAGCGAAGTGGATACCACACTGTATGAGCAGGTGCTTTTGGAGAAGGAGATGGGCACA
 TACTTGGGGACATTCGATGATTACTTGGAACTGTTCTCTGCAGTTCGGATATGTGTCACTGTTCTCTTGTG
 TCTACCCACTCGCTGCCGCTTTCGCCGTGTTGAACAACCTTACAGAAGTCAATAGCGACGCACTGAAGAT
 GTGCAGAGTCTTTAAACGGCCTTTCGCTGAACCCTCAGCATCAATCGGTGTCTGGCAGCTTGCCTTGGAG
 ACTATGTCGTCATATCAGTGGTTACCAACTGCGCTCTGATCGGCATGTCTCCCCAGGTGAACGCAGTCT
 TCCCCGAATCAAAGACCGACCTTGTCTGATCGTGGTAGCCGTGGAGCACGCTCTGCTTGCAGTAAATT
 TATACTTGCTTTTGGCATTCTGATAAACCCCGGCATATACAGCAGAACTGGCTCGGCTTGAGTTTGAG
 AGCTTGAAGCCCTCAAGCAGCAACAAAATGAAACTCGTCGCTGAAAACCTGAAGGAAGAATACCAGGAGG
 ACGGGAAGGAGGCCACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR219834 representing NM_133979
Red=Cloning site Green=Tags(s)

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MRVTLSTLDTCESSFTPLVVIELAQDVKDETKEWLKNRIIAKKKGGAQLLFRPLLNKYEKETLENQNL
LVGASNVRLLLGAEAVGLVKECTDAAMRAFTYGRHNFKGFHDNNDFLMAECQFIKHELENLARDE
KMIPGYPQAKLYPGKSLMRLLTSGIVTQVFLPHDTEALKKLEDTWYTRFALKYQPIDSIRSYPGFTIAL
YFGFLEYFTFALIPMAIIGLPYYLFWEDYDKYVIFASFNLIWSTVILEVWKRGCANMTYRWGTLVMKRO
FEEPRPGFHGVLGINSVTGREEPYSSYKRQLRIYLVSLPFVCLCLYFSLYVMMIYFDMEDWALSLEDHDS
GSEWTSLLLYVPSIVYAVVIEIMNRLYRYAAEFLTSWENHRLAESAYQNHVLKVLVFNFLNCFASLFYIA
FVLKDMKLLRQSLATLLITSQILNQVVESLLPYWLQRKYCARVKRKVQALKSEVDTTLYEQVLLKEMGT
YLGTFDDYLELFLQFGYVSLFSCVYPLAAAFVLNMFTEVNSDALKMCRVFKRPFAPESASIGVWQLAFE
TMSVISVVTNCALIGMSPQVNAVFPESKTDLVLI VVAVEHALLALKFILAFaipdkprhiqqklarlefe
SLEALKQQQMKLVAENLKEYQEDGKEAT
    
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_133979

ORF Size: 1977 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_133979.1](#), [NM_133979.2](#), [NM_133979.3](#), [NP_598740.1](#)

RefSeq Size: 2653 bp

RefSeq ORF: 1980 bp

Locus ID: 102566

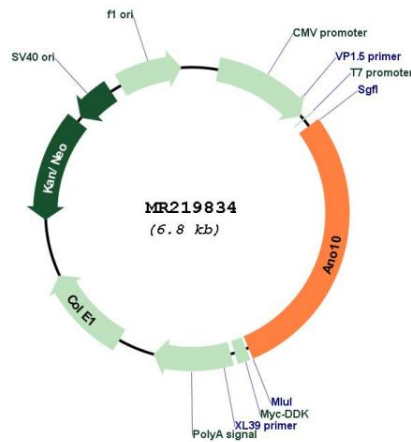
UniProt ID: [Q8BH79](#)

Cytogenetics: 9 F4

MW: 76.2 kDa

Gene Summary: This gene encodes a member of the anoctamin family, which in mammals is comprised of 10 members. Anoctamin proteins are proposed to have eight transmembrane domains with both termini facing the cytoplasm and a C-terminal domain of unknown function. While some members have been characterized as calcium-activated chloride channels, this protein is reported to inhibit anion conductance. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, Dec 2012]

Product images:



Circular map for MR219834