

Product datasheet for **MR230642**

Ano10 (NM_001271873) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano10 (NM_001271873) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ano10
Synonyms:	AI604832; Tmem16k
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR230642 representing NM_001271873
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGTGACTTTATCAACGCTGGATACTTGTGAGAGCTCCTTCACACCTCTAGTGGTCATAGAAGCTCG
 CCCAGGATGTCAAAGATGAAACCAAGAATGGCTCAAAAACAGAATCATTGCCAAGAAGAAAGATGGAGG
 TGCCAGCTATTGTTTAGACCACTGCTAAATAAGTATGAGAAAAGAAACCTAGAAAACAGAATTTATAC
 CTTGTTGGTGCCTCCAATGTCCGACTGTTACTGGGGCAGAAAGCAGTCGGTCTGGTGAAGGAATGTACGG
 ACGCTGCCATGCGGGCCTCACCTATGGAACACGCCACAACCTTTAAAGGTTTCCATGATAACAATAATGA
 CTTCTCACCATGGCTGAGTGTCACTTATTATCAAACACGAACCTTGAGAATCTTAGAGCTAGAGACGAG
 AAGATGATCCCTGGCTACCCACAGGCCAACTGTACCCTGGGAAGTCGCTGATGAGGAGACTGCTCACGT
 CTGGCATCGTGACCAAGTGTCCCGCTGCATGACACTGAAGCCCTGAAGAAGCTGGAGGACACGTGGTA
 CACTCGGTTTGTCTCAAGTACCAGCCATAGTGATCCTGGAGGTGTGGAAGCTGGCTGTGCCAACATG
 ACCTATCGCTGGGGACTCTGGTCATGAAGAGGCAAGTTTGAGGAGCCCGGCCAGGGTTTTCATGGAGTCC
 TTGGCATCAATTCAGTCACGGGCGGGAGGAGCCCTCTACTCGAGCTACAAGAGACAACCTGCGCATCTA
 CCTAGTCTCTGCCATTTGTGTGCCTCTGCCTTATTTCTCCCTTATGTGATGATGATCTACTTTGAC
 ATGGAGGACTGGGCTTGTGCTCCACGAGGACAGTGGTCTGAGTGGACCAGCCTTCTGCTGTATGTAC
 CCAGCATTGTTTATGCCGTTGTGATTGAGATCATGAACCGCCTCTATCGATATGCTGCCGAGTTCCTAAC
 ATCTTGGGAGAATCACAGATTGGAATCTGCCTACCAGAATCATCTCGTTCGAAAGTGTGGTGTCAAC
 TTCTGAATTGCTTCGCCTCACTCTTCTACATTGCCTTTGTCTGAAGGACATGAAGCTTTGCGCCAGA
 GCTTGGCCACACTCCTGATCACCTCCAGATTCTGAACCAAGTCGTAAGAATCTCTTCTTCTACTGCTT
 GCAGCGAAGTACTGTGCGAGGGTAAAGCGGAAGGTTCAAGCATTAAAGTCTGAGGTCGACACAACCTTG
 TATGAGCAAGTCTCCTGGAGAAGGAAATGGGAACGTACCTGGGAACCTTTGATGATTACCTGGAGTTGT
 TCCTGCAGTTTGGCTATGTGAGCCTTTTCTTGTGTTTACCCGCTAGCAGCTGCCTTTGCTGTGTTAA
 TAACCTCACTGAAGTCAACTCAGATGCCTTGAAGATGTGCAGGCTTCAAACGGCCATTTGCAGAACCT
 TCGGCCAGTATTGGCGTATGGCAGTTGGCTTTTGAACGATGAGCGTTATATCCGTGGTCACTAACTGTG
 CTCTGATTGGAATGTACCACAAGTGAATGCAGTCTTCCAGAATCCAAAACAGACCTTGTCTGATTGT
 GGTGGCCGTAGAGCATGCACTCTGGCTCTGAAGTTCATACTCGCATTGGCCATCCCTGATAAACCAGG
 CACATCCAACAGAACTGGCCAGATTGGAATTCGAATCTTTGGAGGCACTCAAGCAACAGCAATGAAGC
 TGTTGGCAGAAAACCTGAAGGAGGAGTACCAGGAAGATGGGAAGGAAGCTACC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230642 representing NM_001271873
 Red=Cloning site Green=Tags(s)

MRVTLSTLDTCESSFTPLVVIELAQDVKDEKELWLNRIIAKKKDGGAQLLFRPLLNKYEKETLENQNL
 LVGASNVRLLLGAEAVGLVKECTDAAMRAFTYGRHNFKGFHDNNDLFLTMAECQFIKHELENLRARDE
 KMIPGYPQAKLYPGKSLMRLLTSGIVTVQVPLHDTEALKKLEDWYTRFALKYQPIVILEVWKRGCANM
 TYRWGTLVMKRQFEPRPGFHGVLGINSVTGREEPLYSSYKRLRIYLVSLPFVCLCLYFSLYVMMIYFD
 MEDWALSLEDGSEWTSLLLIVPSIVYAVVIEIMNRLYRYAAEFLTSWENHRLESAYQNHVLKLVLFN
 FLNCFASLFYIAFVLKDMKLLRQSLATLLITSQILNQVVESELLPYWLQRKYCARVKRQVQALKSEVDLTL
 YEQVLLKEMGTYLGTDDYLELFLQFGYVSLFSCVYPLAAAFVLLNFTVNSDALKMCRVFKRPFAP
 SASIGVWQLAFETMSVIVVTNCALIGMSPQVNAVFPESKTDLVLIIVVAVEHALLALKFILAFIAPDKPR
 HIQQKLARLEFESLEALKQQQMKLVAENLKEEYQEDGKEAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none">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_001271873.1 , NP_001258802.1
RefSeq Size:	2479 bp
RefSeq ORF:	1806 bp
Locus ID:	102566
UniProt ID:	Q8BH79
Cytogenetics:	9 F4
MW:	69.7 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]