

Product datasheet for **MC229033**

Ano7 (NM_001271884) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano7 (NM_001271884) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ano7
Synonyms:	IPC; NG; NGE; Ngep; Ngep-L; Pc; Pcanap5; Tmem16g
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC229033 representing NM_001271884
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCGGGGGCAAGCGCGAGAAGAAGACAGCGTGGTGTGATCGACATGGCCTCCCCTGAAGCAGGGA
 ATGGATGCTCCTATGGGAGCACAGCCCAAGCCTCAGAGGCAGGTAACAGCAGGTGGCCCCAGCAGAGT
 TGGGAGCTCTGCCAAACCCCAATTGATTTGTTCTTGTGGGAAGAAGACCTGAGGAACCAAGAGAAC
 CCCACGAAGGACAAGACAGACACACAGAGGTCTGGCGGGAGACTTTTCTGGAGAATCTTTGCTTGGCTG
 GCCTGAAATAGATCAGCATGATGTCCAGGATGAGGCCGTGCAGTTCATTACATCCTCCTCCGCGCACC
 CTGGGCTGTGCTTTGCTACTATGCAGAAGACCTGCGCCTGAAGCTGCCTCTACAGGAGTTACCAACCAG
 GCCTCCAAGTGGTCAGCCACCCTTCTGGAGTGGCTGGGCATCCCCAATATCCTGCTGGAGCAGTGCCTG
 ACACGCCCCCGAGTATTACTCCTGCCAGTTCAAAGCAAGCAAGCTGCAATGGTTTCTTGGGAGTGACAA
 CCAAGACACCTTCTTACCAGCACCAAGAGGCATCAGATTCTATTGAGATCCTGGCCAAGACTCCATAT
 GGGCAGCAGAAGAAAGGCCTGTTTGGGATTGACCAGCTGCTGGCAGAAGGTGATTTCAGTGCAGCCTTCC
 CTCTGCATGACGGCCATTCTCTGCAGTCCCAGAGAGCTCACAGGTCTGGGTCTCATCCACGCCAAGT
 CTTATTCAGCACTGGGCTCGCTGGGGCAAGTGGAAACAAGTACCAGCCATTGGACCATGTGCGAAGGTAC
 TTCGGGGAGAAGGTGGCTCTCTACTTCGCTGGCTTGGGTTTACACTGGTTGGCTCCTGCCTGCGGCAG
 TAGTGGGCACAGTGGTCTTCTGGTGGGATGTTTCTGGTGTCTCAGACATACCAACGCAGGAGCTGTG
 TCACAGCTCAGACAGCTTCGACATGTGCCCGCTGTGCTCCGACTGTTCTTTTGGCTGCTCTCAGTGCC
 TGCACCCTGGCCAGGCTGGGCGGCTCTTCGACCATGGCGGCACCGTCTTCTTCAAGTTTGTTCATGGCAC
 TGTGGGCGGTGCTGCTTCTGGAGTACTGGAAGCGGAAAAACGCCACATTGGCCTACCGCTGGGACTGTTT
 TGACTATGAAGACATTGAGGAGAGGCCTCGGCCCAAGTTCGCTGCAACGGCCCCCATGACAGCCCTGAAC
 CCCATCACGGGGGAAGATGAGCCCTACTTCTGAGAAGAATCGGTACGCCGCATGCTGGCTGGTCTG
 TGGTGTCTTGATGATGGTGGCTGTGGTGATTATGTGCCTTGATCTGTATCCTGTACCGGGCCGTCAT
 GGCTATCATTGTGTCCAGGTGAGACAACGCCTTCTCTGCCTGGGCTTACGGATTGCCAGCCTCACA
 GGGTCAGTGGTGAACCTTGTCTTCATCCTCATCCTCTCCAAGGTCTATGTGCTCCTGGCCAGGTCTTAA
 CAAGATGGGAGATGCACCGGACACAGACCGAGTTTGGAGTGCCTTACCCTCAAGGTGTTTCATCTTCCA
 GTTTGTGAATTTCTACGCTCGCCGTGTATATCGCCTTCTTCAAGGGCAGGTTTGTGGGATACCGGGC
 AACTACCACACCTTGTGGAATCCGAAATGAGGAGTGTCCAGCTGGAGGCTGCCTCAGTGAGCTGGCAC
 AGGAGCTCCTGGTCATCATGGTGGGCAAGCAGATCATCAATAACGTGCAGGAGGTTCTTGTCCCAAAGCT
 GAAAGGCTGCTGGCAGAAGTTCTCCAGGGGCAAGAAGGCTGGCACGGGGACCCACCCAGCACCTTGGGAG
 GCCGACTATGAGTTGCTGCCTTGTGAGGGGCTGTTTACGAATACCTTGAATGGTGTGAGTTTGGAT
 TCGTCACCATCTTCGTAGCTGCCTGCCGCTGGCGCCGCTTTTGGCCCTACTCAACAACCTGGGTGGAGAT
 CCGCCTAGATGCGCGCAAGTTCGTGTGCGAGTATCGGCGCCAGTGGCGGAGCGCGCCAGGACATCGGC
 ATCTGGTTCCACATCCTAACGGGCTCACACACCTCGCGGTATCAGCAATGCCTTCCTGCTGGCCTTCT
 CCTCCGACTTCTGCCACGTGTCTACTACAGCTGGACGACGCCCCTGACCTGCATGGCTTCCTCAATTT
 CACGCTGGCAGCAGCACCGCCCACTTTACCTCCGCACACAACCGCACTTGACAGTACCGGGCTTTCCGG
 GATGATGATGGACACTATTCTCCGACTTACTGGACTCTCCTGGCCATCCGCTTGGCCTTTGTCATCGTAT
 TTGAGCATGTGGTGTCTCCATTGGCCGTGTTCTGGATCTCTTGGTTCTGACATCCCAGAATCCGTGGA
 GATCAAGGTGAAGCGGAATACTATTTAGCTAAACAAGCACTGGCTGAGAACGAGGTACAGTAGGGGT
 ACCGGAGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001271884

Insert Size: 2532 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001271884.1, NP_001258813.1</u>
RefSeq Size:	3899 bp
RefSeq ORF:	2532 bp
Locus ID:	404545
UniProt ID:	<u>Q14AT5</u>
Cytogenetics:	1 D
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 have little anion conductance activity. In humans, this protein is primarily found in prostate tissues and may serve as a target for prostate cancer immunotherapy. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Dec 2012] Transcript Variant: This variant (2) uses an alternate acceptor splice site in the 3' coding region which results in a frameshift, compared to variant 1. It encodes isoform 2, which has a shorter and distinct C-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.