

## Product datasheet for **MC228431**

### Ano10 (NM\_001271873) Mouse Untagged Clone

#### Product data:

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



[View online »](#)

**Fully Sequenced ORF:** >MC228431 representing NM\_001271873  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGAGTGACTTTATCAACGCTGGATACTTGTGAGAGCTCCTTCACACCTCTAGTGGTCATAGAACTCG  
 CCCAGGATGTCAAAGATGAAACCAAGAATGGCTCAAAAACAGAATCATTGCCAAGAAGAAAGATGGAGG  
 TGCCAGCTATTGTTTAGACCACTGCTAAATAAGTATGAGAAAAGAAACCTAGAAAACAGAATTTATAC  
 CTTGTTGGTGCCTCCAATGTCCGACTGTTACTGGGGCAGAAAGCAGTCGGTCTGGTGAAGGAATGTACGG  
 ACGCTGCCATGCGGGCCTCACCTATGGAACACGCCACAACCTTTAAAGGTTTCCATGATAACAATAATGA  
 CTTCTCACCATGGCTGAGTGTCACTTATTATCAAACACGAACCTTGAGAATCTTAGAGCTAGAGACGAG  
 AAGATGATCCCTGGCTACCCACAGGCCAACTGTACCCTGGGAAGTCGCTGATGAGGAGACTGCTCACGT  
 CTGGCATCGTGACCAAGTGTCCCGCTGCATGACTGAAGCCCTGAAGAAGCTGGAGGACACGTGGTA  
 CACTCGGTTTGTCTCAAGTACCAGCCATAGTGATCCTGGAGGTGTGGAAGCTGGCTGTGCCAACATG  
 ACCTATCGCTGGGGACTCTGGTCATGAAGAGGCAAGTTTGAGGAGCCCGCCAGGGTTTCATGGAGTCC  
 TTGGCATCAATTCAGTACCGGGCCGGGAGGAGCCCTCTACTCGAGCTACAAGAGACAACCTGCGCATCTA  
 CCTAGTCTCTGCCATTTGTGTGCCTCTGCCTTATTTCTCCCTTATGTGATGATGATCTACTTTGAC  
 ATGGAGGACTGGGCTTGTGCTCCACGAGGACAGTGGGTCTGAGTGGACCAGCCTTCTGCTGTATGTAC  
 CCAGCATTGTTTATGCCGTTGTGATTGAGATCATGAACCGCCTCTATCGATATGCTGCCGAGTTCCTAAC  
 ATCTTGGGAGAATCACAGATTGGAATCTGCCTACCAGAATCATCTCGTCTGAAAGTGTGGTGTCAAC  
 TTCTGAATTGCTTCGCCTCACTCTTCTACATTGCCTTTGTCTGAAGGACATGAAGCTTTGCGCCAGA  
 GCTTGGCCACACTCCTGATCACCTCCAGATTCTGAACCAAGTCGTAAGTCTCTTCTTCTTACTGGCT  
 GCAGCGGAAGTACTGTGCGAGGGTAAAGCGGAAGGTTCAAGCATTAAAGTCTGAGGTCGACACAACCTTG  
 TATGAGCAAGTCTCCTGGAGAAGGAAATGGGAACGTACCTGGGAACCTTTGATGATTACCTGGAGTTGT  
 TCCTGCAGTTTGGCTATGTGAGCCTTTTCTTGTGTTTACCCGCTAGCAGCTGCCTTTGCTGTGTTAA  
 TAACCTCACTGAAGTCAACTCAGATGCCTTAAAAATGTGCAGGGTCTTCAAACGGCCATTTGCAGAACCT  
 TCGCCAGTATTGGCGTATGGCAGTTGGCTTTTAAAAACGATGAGCGTTATATCCGTGGTCACTAACTGTG  
 CTCTGATTGGAATGTCACCACAAGTGAATGCAGTCTTCCAGAATCCAAAACAGACCTTGTCTGATTGT  
 GGTGGCCGTAGAGCATGCACTCTGGCTCTGAAGTTCATACTCGCATTGGCCATCCCTGATAAACACCGG  
 CACATCCAACAGAACTGGCCAGATTGGAATTCGAATCTTTGGAGGCACTCAAGCAACAGCAATGAAGC  
 TGTTGGCAGAAAACCTGAAGGAGGAGTACCAGGAAGATGGGAAGGAAGCTACCT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001271873
- Insert Size:** 1806 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.

**RefSeq:** [NM\\_001271873.1](#), [NP\\_001258802.1](#)

**RefSeq Size:** 2479 bp

**RefSeq ORF:** 1806 bp

**Locus ID:** 102566

**UniProt ID:** [Q8BH79](#)

**Cytogenetics:** 9 F4

**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]  
Transcript Variant: This variant (2) uses an alternate in-frame acceptor splice site in the coding region, compared to variant 1. The resulting isoform (2) spans the membrane six times (rather than eight as in isoform 1) and is shorter than isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.