

## Product datasheet for MC222970

### Ano3 (NM\_001128103) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ano3 (NM\_001128103) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ano3  
**Synonyms:** AI838058; B230324K02Rik; Tmem16c  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC222970 representing NM\_001128103  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGGTCCACCACTCAGGCTCCATTCAGTCCTTTAAACAGCAAAAAGGTATGAATATAAGCAAAAGTGAGA  
 TAACAACCTGAAGCGTCATTAACCACCTAGGAGATCCCTGCCTTGCTGGCCAGAGCTATGCTCATT  
 AAAAGCTTGAGTCAATCTGCTTCACTGTTTCAGTCAACTGAGAGTGAATCTCAGGCTCCAACCTTCTGTA  
 ACATTTCTTTCTGCTGATAAGCCTGAACATGTTACTTCGGAGGAGAGTAGAAAGGACTCTACCCTTAAGT  
 GTTCCTTTGCTGACCTCAGTGACTTTTGTCTGGCTCTGGGAAAAGACAAGGATTACCTGGATGAATCTGA  
 ACATGCCAACTATGATCGATCTCGTCTCCTTAATGACTTTGTTACCAAAGATAAGCCTGCATCCAAGACA  
 AAGCTGTCTAAGAATGACATGAGTTACATAGCATCTAGTGGACTCTTATCAAAGATGGCAAAAAGCGAA  
 TTGATTACATCCTGGTTTATCGAAAAACAAATATAACAATGATAAAAAGAAACACATTTGAAAAGAACCT  
 GAGAGCAGAAGGCTTGATGTTGGAGAAGGAGCCAGCAATTGCCAACCCGACATCATGTTTATTAATAAT  
 CACATTCATGGGACACACTGTGCAAGTATGCAGAGAGGCTGAACATCAGGGTGCCCTTCAGGAAGAAAT  
 GTTACTATACTGACCAGAAGAACAATCAAAGAGCAGGGTACAAAATATTTCAAAGAATCAAAAAATG  
 GATGTCCCAAAACCAATGGTCCTTGACAAGTCAGCGTTTCCAGAGCTGGAGGAGTCCGACTGCTATACT  
 GGACCTTCAGCAGAGCTAGGATTCACCACTTCATAATAAACAATAAGGACACCTTCTTCAGCAATGCTA  
 CTCGAAGCAGGATAGTTTATCACATGCTGGAACGCACCAAATATGAAAATGGAATATCAAAAGTGGGTAT  
 CCGTAAGCTTATCACTAATGGTTCATACATAGCAGCATTTCACCCACATGAGGGAGCCTACAAGAGTAGC  
 CTTCCGATCAAAACCCATGGACCTCAGAATAACAGGCATCTGTTGTATGAGCGCTGGGCACGCTGGGAA  
 TGTGGTACAAGCATCAGCCTCTGGACTTAATCAGGATGTACTTTGGTGAAGATTGGCTTATACTTCGC  
 CTGGCTGGGATGGTACCCGGAATGCTGATTCTGCTGCAGTTGTCGGCCTGTGTGTTTTCTTCTATGGA  
 TTAGTCACAATGAACGAAAGCAAGTAAGCCAAGAAATCTGTAAGCCACTGAAGCTTTCATGTGTCCTC  
 TATGTGACAAGAATTGCTCACTGCAGAGACTCAACGACAGCTGCATCTATGCCAAGGTAACATATTTGTT  
 TGATAATGGAGGGACAGTTTTCTCGCTATTTTTATGGCAATATGGGCCACAGTCTTTCTTGAGTTTTGG  
 AAAAGGAGAAGAAGCATTCTGACTTACACTTGGGACCTTATTGAATGGGAAGAAGAGGAGGAAACACTTC



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GCCCCAGTTTGAAGCAAAATATTACAGGATGGAGGTAATAAACCCCATCACGGGAAGCCTGAGCCTCA  
 TCAGCCTTCATCCGACAAAGTCACGCGACTTCTTGTGTCTGTCTCAGGAATCTTCTTCATGATCTCCTTG  
 GTCATCACAGCAGTGTTCGACAGTTGTAGTGTACCGTCTGGTAGTCATGGAACAGTTTGCATCATTCAAGT  
 GGAATTCGTCAAACAGCACTGGCAGTTTGTACATCTGGTGTCTGTCTGTATCAATTCATAATCAT  
 CATGCTGCTGAATCTTGCCTTATGAAAAATTGCATACCTCCTCACTAAGTAAATATCCTCGAAGTAA  
 TCAGAATGGGAAAACAGCTTTGCCTTGAAGATGTTCCCTTTCCAGTTTGTCAATTTGAACAGTTCTATCT  
 TCTATATTGCATTCTTTTTGGGAAGATTGCTAGGCCACCCAGGAAAATACAATAAACTTTTTGAGCGGTG  
 GAGACTGGAGGAATGCCATCCTAGTGGCTGTCTGATAGACCTCTGCCTCCAGATGGGAGTCATCATGTTT  
 TTGAAGCAAATATGGAACAACCTCATGGAGCTGGGATATCCGTTAATCCAAAACCTGGTGGTCACGACACA  
 AAATCAAAGGGGAATACAAGACGCTTCCATACCACAATGGGAAAATGACTGGAACCTTCAGCCTATGAA  
 CATCCATGGGCTGATGGACGAGTACTTAGAAATGGTTTTGCAATTTGGATTCACTACCATCTTTGTTGCT  
 GCTTTTCCCTGGCCCTCTATTGGCTTTGTTAAACAATATCATAGAAATCAGATTGGATGCATATAAAT  
 TTGTGACCCAGTGGAGGAGCCCTGCCAGCCGAGCCACTGACATAGGTATCTGGCTTGGAAATCTTGA  
 GGAATTGGCATATTGGCTGTGATACCAATGCATTTGTAATTGCTATTACATCTGATTACATCCCAGT  
 TTTGTCTATGAATACAAATATGGCCCTTGTGCAAATCATGTGAAGCAGAATGAAAATTGCCTAAAGGGCT  
 ATGTCAACAATAGCTTATCCTTCTTTGACTGAGTGAAGTGGTATGGGAAAATCTGGTTACTGCAGGTA  
 CCGAGACTATAGAGGCCACCTTGGAGTTCAAAACCTATGAATTCACCTTACAGTACTGGCACATCCTG  
 GCTGCTCGATTGGCCTTCATTATCGTGTGTTGAGCATCTTGTGTTTGGCATTAAAGTCATTGATGACATACC  
 TGATTCCTGATATACAAAGGGCCTCCGTGAGCGCATACGGCGAGAGAAATACTTGGTCCAGGAAATGAT  
 GTATGAGGCTGAAGTGAACATTTACAACAACAGAGAAGAAAAGTGGTCAGCCTATTACCATGAATGG  
 CCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM\_001128103
- Insert Size:** 2946 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).
- 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\\_001128103.2](#), [NP\\_001121575.1](#)
- RefSeq Size:** 6026 bp
- RefSeq ORF:** 2946 bp
- Locus ID:** 228432

UniProt ID: [A2AHL1](#)

Cytogenetics: 2

**Gene Summary:** Has calcium-dependent phospholipid scramblase activity; scrambles phosphatidylcholine and galactosylceramide (PubMed:23532839). Does not exhibit calcium-activated chloride channel (CaCC) activity (PubMed:23532839). Seems to act as potassium channel regulator and may inhibit pain signaling; can facilitate KCNT1/Slack channel activity by promoting its full single-channel conductance at very low sodium concentrations and by increasing its sodium sensitivity (PubMed:23872594).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest 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 alignments.