

Product datasheet for **MC229052**

Ano5 (NM_001271879) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano5 (NM_001271879) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ano5
Synonyms:	9330162L24; Gdd1; Tmem16e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC229052 representing NM_001271879
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGGAGCAGGAAGGCTTAACAGCCAAGAATAAGACTATGCTTTCCAACAGAATGAGAACCTGGGCT
 CCAAAGAGACCAGCTTTCTCATCCCTGAAGACTTACAGTACCCTTCCAGAGAAGTGAGCACAGCAAAGA
 CTCGGTCTTCTCAGAGATGGAATCCGGCAGATCGACTTTGTCCTGTCTACGTGGAGGATTTGAAGAAA
 GATGGAGAGCTGAAGGCAGAAAGAAGACGAGAGTTGAACAAAATCTCAGAAAAACAGGTCTTGACTTGG
 AAACAGAAAGACAAATTGAACTCTGAAGATGGGAAAACCTATTTTGTGAAGATTCACGCCCATGGGAAGT
 CCTGGTCACTTACGCTGAAGTGTGGGAATCAAGATGCCTATTAAGTTGAGTGACATCCCACGGCCAAAG
 TACCCACCCTGTCTTACATGCTTGGGGCGGTGAAGCTTCCATCCTCTGTGAAGTATCCTACTCCTGAGT
 ATTTCACTGCCAGTTCAGCAGACCCGTAAGAACTCTTCTCATTGAAGATGAGGCCACTTTCTTTCC
 ATCCTCAACAAGGAACAGAAATTGTTACTATATTCTGTACGATGCCCTTTGGAGTGGAAGAGGGGAAG
 AAAAGATTGGGATCGAGAGACTGCTGAACTCGAACACTATTTATCTGCCTACCCGCTCCATGATGGCC
 AGTATTGGAACCATCAAAACTACTCGCCCAATGAAAGGTACAACCTTTGCAAGAAGTGGGCTCGATT
 TTCTACTTTTACAAGGACAACTTTTCATTTGATTGCGAATTTTGGGAGAAAAATCGGTATCTAT
 TTTGATTTCTCGGTATTACACAGAAATGCTGTTGTTGCGGCTCTGGTGGCTTAGCCTGCTTCACT
 ATGGCTTGTATCAATGGAAAATAACCGAACTAGCACTGAAATCTGTGACCCTGACATCGGAGGTGAGAT
 GATCATGTGCCACTTTGCGATGAAGTGTGTGATTACTGGAGACTGAACACCACGTGTTGCAATCAAAG
 TTCTCCCATCTGTTTGATAACGAGTCACTGTGTTCTTTGCGCTTTCATGGGGATCTGGGTGACATGAT
 TTCTGGAGTTTTGGAAGCAGCGACAAGCCAGGCTTGAGTACGAATGGGATCTGGTGGACTTTGAAGAAGA
 ACAGCAGCAGCTCCAGCTTCGGCCTGAATTTGAAGCTATGTGTAACACAAGAAGATGAATCCTGTGACA
 AAGGAAATGGAGCCACACATGCCTCTATGCCATCGCATCCATGGTACTTTGTGTCAGGGACCACAGTGA
 CCTTTGGGATGGCTCTCCTCCTCAGCAGCATGGTGTCCATCCTCATATACCGCTGTGAGTCTTTGCCAC
 TTTTGCCAGTTCATGGAAGCGAAGCCACCCTGCAGAGCGTGAAGAGCTTCTTTACTCCACAGTGGCT
 ACGGCTCTCTGGATCATGCCTGAACTGCATTGTCTTTGATACTGAATTTTTTTATGAGAAGATAT
 CTGCTGGATTACGAAAATGGGGAAGTTCGTGGGATATCCTGGGAGTTACACATATATGTTCAACATATG
 GAGAAGCGAAGAGTGTGGTCTGCAGGCTGTCTGATAGAGCTGACCACCCAGCTAACCATCATTATGATT
 GGAACACAGATTTTTGGAACATCCATGAAGCCTTTCAACCTTGATTTTAATTGGTGGAGACGCCGAA
 GAGCCCAACCCACTCTGAGAACTGTACAGTCGTTGGGAGCAAGATCATGACCTTCAGGTTTATGGACA
 TCGTGGGCTGTTTTATGAGTACTTGAAACAGTTATCCAGTTTGGGTTTGGCCACGCTGTTGTGGCCTCT
 TTTCTCTGGCACCCCTGTTTGCTCTCATGAACAACATCATGGGAATCCGAGTGGATGCCTGGAAGCTGA
 CAACTCAGTACAGGAGACCTGTCGACGCGAAAGCCACTCCATAGGTGTCTGGCAAGACATCTTTTTGG
 AATGGCCATCGTTTCTGTTGCAACTAATGCCTTATTGTCTCATTACATCTGACATCATCCCCGGTTA
 GTTTACTTCTATGCCTACTCAACGAATCCACAGAGCCCTTGAGTGGATACGTCATAACAGCCTGTCAG
 TGTTCTGATAGCTGACTTTCCAACCACACAGTGCCCATGGAGAAAAAGACTTCGTACCTGCAGGTA
 CAGAGATTATAGTACCCTCCTGATCATGAGGATAAGTATAGCCATAACATGCAGTCTGGCATGTTCTT
 GCTGCCAAGATGACCTTCATCATAGTGATGGAACACGTCGTGTTTCTGTTTAAATTTTTATTAGCCTGGC
 TGATACCAGATGTTCTAAAGATGTTGTGGAGAAAATCAAACGAGAAAAGTTAATGACTATCAAATTTAT
 TCATGACTTTGAGCTCAACAAGTTGAAAGAAAACCTGGATGTTGAATATGGTAACATCATGAAGAATGTT
 TTAGTAGATGAAGACAATTCCTGAAGGCTAAAACCTACAGTCT**TAA**

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001271879
Insert Size: 2565 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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001271879.1 , NP_001258808.1
RefSeq Size:	7633 bp
RefSeq ORF:	2565 bp
Locus ID:	233246
UniProt ID:	Q75UR0
Cytogenetics:	7 B4
Gene Summary:	<p>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. Elevated levels of this protein were found in dystrophic mice. In humans, mutations of this gene are associated with with musculoskeletal disorders such as myopathies, muscular dystrophy and gnathodiaphyseal dysplasia. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2012]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon and uses an alternate in-frame acceptor splice site in the coding region compared to variant 1. It encodes isoform 2 which 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.</p>