

Product datasheet for **MC222559**

Ano5 (NM_177694) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano5 (NM_177694) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ano5
Synonyms:	9330162L24; Gdd1; Tmem16e
Vector:	pCMV6-Entry2 (PS100063)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC222559 representing NM_177694
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGGAGCAGGAAGGCTTAACAGCCAAGAATAAGACTATGCTTTCCAACAGAATGAGAACCTGGGCT
 CCAAAGAGACCAGCTTTCTCATCCTGAAGACTTACAGTACCGCCTGAGAAGCGATTCAATTTGTTCCT
 GAGGAGGCGTCTTATGTTCCAGAGAAGTGAAGAAAGATGGAGAGCTGAAGGCAGAAAAGAGAC
 CAGATCGACTTTGCTCCTGTCTACGTGGAGGATTTGAAGAAAGATGGAGAGCTGAAGGCAGAAAAGAGAC
 GAGAGTTTGAACAAAATCTCAGAAAAACAGGTCTTGACTTGAAAACAGAAGACAAATTGAACTCTGAAGA
 TGGGAAAACCTATTTTGTGAAGATTACGCCCCATGGGAAGTCTGGTCACTTACGCTGAAGTGTGGGA
 ATCAAGATGCCTATTAAGTTGAGTGACATCCCACGGCCAAAGTACCCACCCCTGTCTTACATGCTGGGG
 CGGTGAAGCTTCCATCCTCTGTGAAGTATCCTACTCCTGAGTATTTCACTGCCAGTTCAAGCAGACCCG
 TCAAGAACTCTTCTCATTGAAGATGAGGCCACTTTCTTCCATCCTCAACAAGGAACAGAAATTGTTTAC
 TATATTCTGTACGATGCCCTTTTGGAGTGAAGAGGGGAAGAAAAGATTGGGATCGAGAGACTGCTGA
 ACTCGAACACTTATTTATCTGCCTACCCGCTCCATGATGGCCAGTATTGAAACCATCAAAAACACTCG
 CCCCAATGAAAGGTACAACCTTTGCAAGAACTGGGCTCGATTTTCTACTTTTACAAGGAGCAACCTTTT
 CATTTGATTCGGAATATTTTGGAGAAAAATCGGTATCTATTTTGTATTTCTCGGGTATTACACAGAAA
 TGCTGTTGTTTGGCGCTCTGGTGGGCTTAGCCTGCTTCATCTATGGCTTGTATCAATGGAAAATAACCG
 AACTAGCACTGAAATCTGTGACCCTGACATCGGAGGTGAGTATGATCATGTGCCACTTTGCGATGAAGTG
 TGTGATTACTGGAGACTGAACACCACGTGTTTGCATTCAAAGTTCTCCATCTGTTTGATAACGAGTCGA
 CTGTGTTCTTTGCGCTCTTCATGGGGATCTGGGTACACTTGTGTTTCTGGAGTTTGAAGCAGCGACAAGC
 CAGGCTTGAGTACGAATGGGATCTGGTGGACTTTGAAGAAGAAGCAGCAGCTCCAGCTTCGGCCTGAA
 TTTGAAGCTATGTGTAACACAAGAAGATGAATCCTGTGACAAAGGAAATGGAGCCACACATGCCTCTAT
 GCCATCGCATCCCATGGTACTTTGTGTACGGGACCACAGTGACCTTTGGGATGGCTCTCCTCCTCAGCAG
 CATGGTGTCCATCCTCATATACCGCTGTCACTTTTGGCACTTTTGGCAGTTCATGGAAGCGGAAGCC
 ACCCTGCAGAGCGTGAAGAGCTTCTTACTCCACAGCTGGCTACGGCTCTCTGGATCATGCCTGAACT
 GCATTGCTATTTGATACTGAATTTTTTTATGAGAAGATATCTGCCTGGATTACGAAAATGAAAATACC
 ACGAACTACCAGGAGTATGAGAGCAGCCTCACTCTGAAGATGTTTCTCTTCCAATTTGTAAGTATTAC
 TCATCTTGCTTCTATGTGGCCTTTTAAAGGGAAGTTCTGTGGGATATCCTGGGAGTTACACATATATGT
 TCAACATATGGAGAAGCGAAGAGTGTGGTCTGCAGGCTGTCTGATAGAGCTGACCACCCAGCTAACCAT
 CATTATGATTGGAAAACAGATTTTTTGGAAAACATCCATGAAGCCTTTCAACCCCTGATTTTTAATTGGTGG
 AGACGCCGAAGAGCCCGAACCCACTCTGAGAACTGTACAGTCTGTTGGGAGCAAGATCATGACCTTCAGG
 TTTATGGACATCGTGGGCTGTTTATGAGTACTTGGAAACAGTTATCCAGTTTGGGTTTGGCCACGCTGT
 TGTGGCCTCTTTCTCTGGCACCCCTGTTTGTCTCATGAACAACATCATGGGAATCCGAGTGGATGCC
 TGAAGCTGACAACTCAGTACAGGAGACCTGTGCGAGCGAAAGCCCACTCCATAGGTGTCTGGCAAGACA
 TTCTTTTTGGAATGGCCATCGTTTCTGTGCAACTAATGCCTTCAATGTCTCATTACATCTGACATCAT
 CCCCCTGTTAGTTTACTTCTATGCCTACTCAACGAATTCACAGAGCCCTTGAGTGGATACGTCAATAAC
 AGCCTGTCAAGTCTTCTGATAGCTGACTTTCCCAACCACACAGTGCCCATGGAGAAAAAGACTTCGTCA
 CCTGCAGGTACAGAGATTATAGGTACCCTCCTGATCATGAGGATAAGTATAGCCATAACATGCAGTTCTG
 GCATGTTCTTGCTGCCAAGATGACCTTCAATAGTGTGGAACACGTCGTGTTTCTGTTTAAATTTTAA
 TTAGCCTGGCTGATACCAGATGTTTCTAAAGATGTTGTGGAGAAAATCAAACGAGAAAAGTTAATGACTA
 TCAAAATATTTCATGACTTTGAGCTCAACAAGTTGAAAGAAAACCTGGATGTTGAATATGGTAACATCAT
 GAAGAATGTTTTAGTAGATGAAGACAATCCCTGAAGGCTAAAACCTACAGTCT**AA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/jc1455_b07.zip

Restriction Sites: Sgfl-Mlul

ACCN:	NM_177694
Insert Size:	2715 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:	<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_177694.5 , NP_808362.2
RefSeq Size:	7783 bp
RefSeq ORF:	2715 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 (1) represents the longest transcript and encodes the longer 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.</p>