

## Product datasheet for MC205263

### Ano1 (NM\_178642) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ano1 (NM\_178642) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Ano1  
**Synonyms:** Tmem16a  
**Mammalian Cell Selection:** Neomycin  
**Vector:** PCMV6-Kan/Neo (PCMV6KN)  
**E. coli Selection:** Kanamycin (25 ug/mL)

**Fully Sequenced ORF:** >MC205263  
 CAGCGACATCGGCCTGGAGGGCTTGACCCAGAGGGAACCTCTGCGGACCGAGAGTGCCAGCGGGGACCG  
 GAAACAATCGCGCACGAGGCACAGGACGCAGGAACCCCAACTCAGGTGACGCCACCGGGTTGTGGATG  
 GGGAGCGCGAGGCCACCATGAGGGTCCCCGAGAAGTACTCGACGCTCCCGCGGAGGACCGCAGCGTCCA  
 CATCGTGAACATCTGCGCCATCGAGGACCTGGGTACCTGCCGTCGAGGGCACGTTGCTGAACTCTCTG  
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 TCTTGGTATACCATCACAAAGAGAGCCTCAGGGAGCAGGACTCTGGCCAGGAGGGGACTACAAAATGACAT  
 GGTCTGGGGACCCGACGCTCAGGCAGGACCAGCCCCTCCCGGAAGGGGAGCCCTGTGGATGCAGGC  
 TCACCGGAAGTCCCATGGATTACCATGAAGATGACAAACGCTTCAGACGGGAGGAATATGAGGGCAACC  
 TGTTGGAGGCAGGCTGGAGTTGGAGAATGACGAGGATACAAAATCCATGGTGTGCGGTTTGTGAAGAT  
 CCATGCGCCCTGGCATGTGCTCTGTAGGGAAGCTGAGTTTTTGAACCTAAAGATGCCACAAAGAAGGTG  
 TACCACATCAGTGAGACGCGAGGCTCCTGAAAACCATCAACTCGTTCTGCAGAAGATCACAGACCCCA  
 TCCAGCCCAAGGTGGCTGAGCACAGGCCACAGACCACAAAGAGGCTCTCCTATCCCTTCTCCCGGGAGAA  
 GCAACACCTATTGACCTGACTGACAGGGACTCTTTTTTCGACAGCAAAACCCGGAGCACAATAGTCTAT  
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 GTTACAGTCACGGCCACCGCTGTATCATCAACCTCGTGGTCATATTCTGCTGGATGAAGTTACGGCT



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GCATTGCCAGGTGGCTCACCAAGATTGAGGTCCCAAAGACAGAGAAGAGCTTTGAGGAGAGGCTAACCTT
CAAGGCCTTCTGCTCAAGTTTGTGAACCTTACACTCCCATCTTCTATGTGCGCTTCTTCAAAGGCCGG
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TCCGAATCTCAGGCTTCCAAGGTTTGCATGTTTGTCTAAAATCGTGAGACCTGATGCTTCTATTTTCTCT
TGTGCAGTGATGTGGTTCCAATGATGTTTTGTATATAGCTACTGTATCCAAAATTAGATAATTACCAAA
AATTTCTTTACAGAAACCATTTTTAAAAACAACAAAAA
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- Restriction Sites:** Ascl-NotI
- ACCN:** NM\_178642
- Insert Size:** 2871 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\\_178642.4](#), [NP\\_848757.3](#)

**RefSeq Size:** 4393 bp

**RefSeq ORF:** 2871 bp

**Locus ID:** 101772

**UniProt ID:** [Q8BHY3](#)

**Cytogenetics:** 7 F5

**Gene Summary:** Calcium-activated chloride channel (CaCC) which plays an important role in transepithelial anion transport and smooth muscle contraction. Required for the normal functioning of the interstitial cells of Cajal (ICCs) which generate electrical pacemaker activity in gastrointestinal smooth muscles. Acts as a major contributor to basal and stimulated chloride conductance in airway epithelial cells and plays an important role in tracheal cartilage development. [UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).