

## Product datasheet for MR219751

### Ano2 (NM\_153589) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ano2 (NM\_153589) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ano2  
**Synonyms:** BC033409; Tmem16b  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR219751 representing NM\_153589  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGGCCCTGGGCTGCGAGACATCCCTCTGCTCCCTGGATCTCCACGTCGGCTGAGTTCTCGGACCG  
 TGGCCAGAGGAAGCCAGGGCCCCAAACATGGGCAGCAGTACCTCAAAGTCCAGGTCACCGGGCCCCAGG  
 TCAGAGGGACAATCCAGCCTACACCCTAGCCAGGTCTCCAGGAGAGAGATTCCCGAGACCGTTCTGTC  
 ATCAATAACTACCTGGATGCCAATGAGCCCCGTCCTCGGAAGCCCGTCTGAGCCGCATGCACTTTCACG  
 ACAACCAGAGAAAGTCGACTATGTAATGTCATACCACTACCGGAAACGAGGCGCACACCTGGGTACCGG  
 CTCCCCTGGACACTCTCTGGCTGTTATCTCCAATGGGGAGACAGGCAAGGAGCGCCATGGCGGGGCCCT  
 GGTGATGTTGAACTTGGGCCACTGGATGCTCTGGAAGAGGAAAGGAGGGAGCAGCGAGATGAATTTGAGC  
 ACAACCTGATGGCTGCTGGGCTGGAGCTGGAGAAGGACTTGGAGAGCAAAAGCCAGGGATCTGTCTTTGT  
 CCGGATCCACGCCCATGGCAGGTGCTGGCCAGGGAAGCAGAGTCTTGAAGATCAAAGTCCCCACCAAG  
 AAAATGTACGAGATCAAAGCAGGAGGCAGCATCGCAAAGAAGTTCAGCGCCATTCTGCAGACGCTCAGTT  
 CACCCCTGCAGCCAGAGTTCCTGAACACAGCAACAACAGGATGAAAAACCTCTCCTACCCATTCTCCAG  
 GGAAAAATGTACCTGTACAACATCCAGGAAAAGGACACCTTCTTTGACAATGCTACCCGGAGCCGCATT  
 GTACACGAGATTCTGAAGCGGACGGCCTGTTCTCGAGCCAACAACACGATGGGTATTAACCTCTAATAG  
 CAAACAATATCTACGAGGCTGCCTACCCGCTTCATGATGGTGAATATGACAGTCCAGGGGATGACATGAA  
 TGACAGAAAGCTGCTGTATCAGGAATGGGCACGCTATGGAGTGTTTTACAATTTCAACCCATTGACCTC  
 ATCAGGAAGTATTTGGAGAGAAAATTGGGCTATATTTGCTTGGCTGGGTTGTATACATCATTCTGTA  
 TCCCATCTTCTGTCATAGGCGTGATTGTGTTTCTTTATGGATGTGCAACAATCGAGGAAGATATCCAG  
 CAAAGAGATGTGTGACCACCAGAATGCCTTCACCATGTGTCCCCTGTGTGACAAGTCTGTGACTATTGG  
 AACCTCAGCTCAGCCTGTGGACTGCACGGCCAGTCATCTGTTTGACAATCCAGCCACCGTCTTCTTTT  
 CCATCTTCATGGCTCTGTGGCTACCATGTTTCTGAAAACCTGGAAGAGACTCCAGATGCGGTTGGGCTA  
 CTCTGGGACCTGACTGGATCGAAGAGGAAGAAGACGTTCCAGGAACACTCTCGGCCTGAATATGAA



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ACCAAAGTACGAGAGAACTGTTAAAGGAGAGTGGCAAGTCAGCGGTTCCAGAAGCTGGAAGCAAATTCAC  
 CTGAGGATGATGAGGATGATGAAGATAAACTGACTTGGAAAGATCGTTTCCCAGGATACTTGATGAACTT  
 TGCTCCATCTTGTTTATGATTGCCCTGACGTTCTCCATTGTCTTTGGGGTCATTGTGTATCGGATCACA  
 ACTGCAGCTGCCCTGTCTCTCAACAAGGCCACAGCTCCAATGTCGGGTGACAGTGACTGCAACAGCAG  
 TCATCATCAACCTCGTGGTCATCCTCATCTTGGATGAGATCTATGGTGTGTGGCCAAGTGGCTTACCAA  
 AATCGAGGTTCCGAAAAACAGAACAGACTTTTGAAGAACGGTTGATCCTCAAAGCTTCTTGCTCAAGTTT  
 GTCAATGCCTACTCCCCCATCTTCTATGTGGCCTTTTTCAAGGGAGGTTGTGGGCAGACCTGGAAGCT  
 ATGTCTACGTGTTTCGACGGTTACCGCATGGAAGAGTGTGCTCCGGGAGGCTGTCTCATGGAGCTGTGCAT  
 CCAACTCAGCATCATCATGTTGGCAAGCAGCTGATCCAGAACAATATCTTTGAGATTGGAGTCCCGAAG  
 CTAAGAAACTCTTTGGAAGCTGAAAGATGAGACAGAGCCTGGAGAAAGTGACCCTGACCACTCAAAC  
 GTCCAGAGCAGTGGACCTGGACCACAGCCTAGAGCCTTACACTGGGCTGACTCCTGAGTACATGGAAT  
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 AACATGTCATTGAAGTGCAGCTGGATGCAAAAAAGTTTGTACAGAAGTACAGACGCCAGATGCTGTGA  
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 AACTACATGGCTTTGTGAACCATACACTCTCCTTTTTCAACGTACAGTACAGTGAAGGAGGGAACACAGC  
 CTGAAAACCTCACAGTTCGACCAGGAGGTTCAAGTTTGCAGGTTCAAAGATTATCGAGAACCACCATGGGC  
 ACCAAACCTTATGAGTTTTCAAGCAGTACTGGTCTGTTTTGTCTGCCGTCTGGCCTTTGTTATCATC  
 TTCCAGAACCTAGTATGTTCTGAGTGTCTGGTGGACTGGATGATTCCGGATATCCCCACTGACATCA  
 GCGACCAGATCAAGAAAGAGAAGAGCTTGTCTGAGACTTCTTTCTGAAGGAGGAGCATGAGAAGGTCAA  
 GCTGGCTGATGAGCCACCCAGAGGAGCCAGGGAGGTGGGATCGGAGCAGGAGGAGCCGTGCAGCCAGC  
 TCTGCACCATCAGGCCGAGCCAGCCAGGCAGCATAGCATCCTCAGGGTCCCAGCACACCAATGTA

ACGCGTACGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGAT AAGTTTAA

**Protein Sequence:**

>MR219751 representing NM\_153589  
 Red=Cloning site Green=Tags(s)

MAAPGLRDIPLLPSPRRLSSRTVARGSQPKHGQQYLKVPGRAPGQRDNSSLHPSQVSRRESSRDRSV  
 INNYLDANEPPSSEARLSRMHFHDNRKVDYVLAHYHRKRG AHLGHGSPGHSLAVISNGETGKERHGGGP  
 GDVELGPLDAL EERREQRDEF EHNLM AAGLELEK DLESKSQGSV FVRIHAPWQVLAREAEFLKIKVPTK  
 KMYEIKAGGSI AKKFSAILQTLSSPLQPRVPEHSNNRMKNLSYPF SREKMYL YNIQEKDFFF DNATRSRI  
 VHEILKRTACSRANNTMGINSLI ANNIYEAAYPLHDGEYD SPGDDMNDKLL YQEWARYGVFYKFPIDL  
 IRKYFGEKIGLYFAWLGLYTSFLIPSSVIGVIVFLYGCATIEEDIPSKEMCDHQNAFTMCPLCDKSCDYW  
 NLSSACGTARASHLFDNPATVFFSIFMALWATMFLENWKRLQMRLGYFWDLTGIEEEEEERSQEHSRPEYE  
 TKVREKLLKESGKSAVQKLEANSPEDEDEDKLTWKDRFPGYLMNFASILFMIALTFSIVFGVIVYRIT  
 TAAALSLNKATRSNVRVTATAVIINLVVILILDEIYGAVAKWLT KIEVPKTEQTFEERLILKAFLLKF  
 VNAYSPIFYVAFFKGRFVGRPGSYVYVFDGYRMEECAPGGCLMELCIQLSIIMLGKQLIQNNIFEIGVPK  
 LKKLFRLLKDETEPGESDPDHSKRPEQWLDHSLPEPYTGLTPEYMEMI IQFGFVTLFVASFLAPV FALL  
 NNVIEVRLDAKKFVTELRRPDAVRTKDIGIWFIDILSGIGKFSVIINAFVIAVTSDFIPRLVYQYSYSHNG  
 TLHGFVNHTL SFFNVSQ LKEGTQ PENSQFDQEVQFCRFKDYREPPWAPNPYEF SKQYWSVL SARLAFVII  
 FQNLVMFLSVLVDWMIPDIPTDISDQIKKEKSLLVDFFLKEEHEKVKLADEPTQRSQGGDRSRRSRAAS  
 SAPSGRSQPGSIASSGSQHTNV

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9029\\_c07.zip](https://cdn.origene.com/chromatograms/mm9029_c07.zip)

**Restriction Sites:**

Sgfl-Mlul



Locus ID: 243634

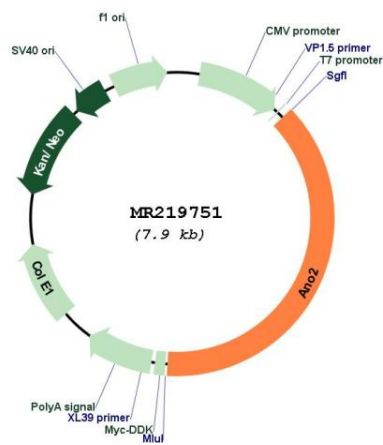
UniProt ID: [Q8CFW1](#)

Cytogenetics: 6 F3

MW: 114.6 kDa

**Gene Summary:** Calcium-activated chloride channel (CaCC) which may play a role in olfactory signal transduction. Odorant molecules bind to odor-sensing receptors (OSRs), leading to an increase in calcium entry that activates CaCC current which amplifies the depolarization of the OSR cells, ANO2 seems to be the underlying chloride channel involved in this process. May mediate light perception amplification in retina.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219751