

Product datasheet for MC205812

Ano2 (NM_153589) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ano2 (NM_153589) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ano2
Synonyms:	BC033409; Tmem16b
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC033409
 GTCCTCTGACCTGGCTAGGACAATTCCTGGCTAGGGTGTAGGCTGGAATTGTCCTCTGACCTGGGGC
 CCGGTCTCCAGGAGAGAGAGTTCGAGACCGTTCTGTCAATAACTACCTGGATGCCAATGAGCCCC
 CGTCCTCGGAAGCCCGTCTGAGCCGCATGCACTTTCACGACAACCAGAGGAAAGTCGACTATGTACTTGC
 ATACCACTACCGAAACGAGGCGCACACCTGGGTACGGCTCCCCGACTCTCTGGCTGTTATCTCC
 AATGGGGAGACAGGCAAGGAGCGCCATGGCGGGGCCCTGGTGTGTTGAACTTGGGCCACTGGATGCTC
 TGGAAAGAGAAAGGAGGGAGCAGCGAGATGAATTTGAGCACAACCTGATGGCTGCTGGGCTGGAGCTGGA
 GAAGGACTTGGAGAGCAAAGCCAGGGATCTGTCTTTGTCGGATCCACGCCCATGGCAGGTGCTGGCC
 AGGGAAGCAGAGTTCTTGAAGATCAAAGTCCCCACCAAGAAAATGTACGAGATCAAAGCAGGAGGCAGCA
 TCGAAAAGATTGAGCGCCATTCTGCAGACGCTCAGTTCACCCCTGCAGCCAGAGTTCCTGAACACAG
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 AAGGACACCTTCTTTGACAATGCTACCCGAGCCGATTTGACACGAGATTCTGAAGCGGACGGCCTGTT
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CCTTTTTCAAGGGGAGGTTTGTGGGCAGACCTGGAAGCTATGTCTACGTGTTGACGGTTACCGCATGGA
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GCTCCTATGACAAGGATGCATATAATGCAACTCACACCCTTTTATGCAAGTTCTGGTTTAAAATAAAAT
AAATGAAAAGTCTTTTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** RsrII-NotI
- ACCN:** NM_153589
- Insert Size:** 2742 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:** [BC033409](#), [AAH33409](#)
- RefSeq Size:** 3544 bp
- RefSeq ORF:** 2742 bp

Locus ID: 243634

UniProt ID: [Q8CFW1](#)

Cytogenetics: 6 F3

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]