

Product datasheet for **SC337761**

TMEM16B (ANO2) (NM_001278597) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM16B (ANO2) (NM_001278597) Human Untagged Clone
Tag:	Tag Free
Symbol:	ANO2
Synonyms:	C12orf3; TMEM16B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001278597, the custom clone sequence may differ by one or more nucleotides

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ATGCCTGAAGATATACCCCTGCTCCCTGGCTCCCCACGCCGGCTGAGCCCTCAGGCAGGGTCCAGAGGGG
GCCAGGGCCCCAACATGGACAGCAGTGTCTCAAGATGCCAGGTCCCCGGGCCCCAGGTCTGCAGGGCGG
TTCCAACAGAGATCCTGGCCAGCCCTGCGGTGGAGAGACCCGCAGCAGCTCTGTCATCAACAACATAT
CTGGATGCCAATGAGCCTGTCTCTGGAGGCCGTCTTAGCCGCATGCACTTCCATGACAGTCAGAGGA
AGGTGCACTATGTACTTGCTTACCCTACCGAAACGCGGGGTGCACCTGGCCCAAGGCTTCCCTGGCCA
CTCGCTGGCTATCGTCTCCAATGGGGAGACAGGCAAGGAGCCTCATGCTGGGGGCCAGGTGACATTGAG
CTGGGACCGCTCGATGCCCTGGAGGAGGAGGAAGGAGCAGCGGGAGGAATTTGAGCACAATCTGATGG
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ATCCTGAAGCGCACAGCCTGCTCCCGAGCCAACAACACGATGGGTATTAACCTCTGATCGAAAACAATA
TCTATGAGGCTGCCTACCTCTTCATGACGGTGAATACGATAGTCCAGAGGACGATATGAATGACAGGAA
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TCAGCCTGTGGGACCGCAGGCCAGCCACCTGTTTGACAACCCCTGCCACCGTCTTCTTCTATCTTCA
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CATCTTATTCATGATTGCCCTGACATTCTCAATCGTCTTTGGGGTATAGTGTATCGAATAACAACCTGCA
GCCGCTGTCTCTCAATAAGGCTACACGCTCCAATGTCCGGGTGACAGTGACAGCAACAGCAGTCATCA
TCAACCTCGTGGTCATCCTCATCTGGACGAGATCTACGGCGCTGTGGCCAAGTGGCTCACCAAAATGGA
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GCCTACTCCCCCATCTTCTATGTGGCCTTTTCAAAGGGAGGTTTGTGGGCAGGCCTGGAAGCTACGTCT
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CAGCATCATATGTTGGGGAAGCAGTTGATCCAGAACAACATCTTTGAGATTGGAGTCCCAGGAAAGTAAAG
AAACTATTTGAAAGCTGAAAGATGAGACCGAAGCTGGAGAACTGACTCTGCCATTGAAACATCCAG
AGCAGTGGGACCTAGACTACAGCTTGAACCATACACAGGACTGACTCCGGAGTACATGGAATGATCAT
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GTCATTGAAGTGGGCTCGATGCAAAGAAGTTTGTACAGAGCTGAGACGGCCGGATGCTGTAAGAACCA
AAGATATCGAAATCTGGTTTGACATTCTCTCGAATTGGCAAGTCTCTGTTATCAGCAACGCTTTTGT
CATTGCGATCACCTCCGACTTTATCCCCCGCCTGGTGTACCAGTACTCCTACAGTACAATGGGACTCTG
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CCCTTATGAGTTTTGAAACAGTACTGGTTTATTCTGTCCGCCCTGCTGGCTTTTGTCAATCTTCCAG
AACCTCGTATGTTCTGAGCGTCTCGTGGACTGGATGATTCCAGACATCCCCACGGACATCAGCGACC
AGATCAAGAAAGAGAAGAGCTTATTAGTGGATTCTTCTGAAAGAGGAGCATGAGAAGCTCAAGCTGAT
GGATGAGCCGGCTCTGAGGAGCCAGGAGTGGGGATCGAAGCAGGAGCCGGGCAGCCAGCTCAGCACCT
TCAGGCCAAAGCCAGCTGGGCAGCATGATGTCGTGAGGCTCTCAGCACCAATGTGTGA
    
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Restriction Sites: Sgfl-Mlul
ACCN: NM_001278597

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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_001278597.1](#), [NP_001265526.1](#)

RefSeq Size: 3729 bp

RefSeq ORF: 3000 bp

Locus ID: 57101

UniProt ID: [Q9NQ90](#)

Cytogenetics: 12p13.31

Protein Families: Transmembrane

Gene Summary: ANO2 belongs to a family of calcium-activated chloride channels (CaCCs) (reviewed by Hartzell et al., 2009 [PubMed 19015192]).[supplied by OMIM, Jan 2011]
 Transcript Variant: This variant (2) uses an alternate 5' terminal exon and it thus differs in the 5' UTR and 5' coding region, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.