

## Product datasheet for RC239870

### TMEM16B (ANO2) (NM\_001278596) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM16B (ANO2) (NM_001278596) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TMEM16B
Synonyms:	C12orf3; TMEM16B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC239870 representing NM_001278596 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGCGACTCCCGGGCCGCGGATATACCCCTGCTCCCTGGCTCCCCACGCCGGCTGAGCCCTCAGGCAG  
GGTCCAGAGGGGGCCAGGGCCCCAAACATGGACAGCAGTGTCTCAAGATGCCAGGTCCCCGGGCCCCAGG  
TCTGCAGGGCGGTTCCAACAGAGATCCTGGCCAGCCCTGCGGTGGAGAGAGCACCCGAGCAGCTGTGC  
ATCAACAATCTGGATGCCAATGAGCCTGTGCTCTGGAGGCCGCTTAGCCGCATGCACTTCCATG  
ACAGTCAGAGGAAGGTCGACTATGTAATGCTACCCTACCGGAAACCGGGGTGCACCTGGCCCAAGG  
CTTCCCTGGCCACTCGCTGGCTATCGTCTCCAATGGGGAGACAGGCAAGGAGCCTCATGCTGGGGGCCA  
GGTGACATTGAGCTGGGACCGCTCGATGCCCTGGAGGAGGAGGAAGGAGCAGCGGGAGGAATTTGAGC  
ACAATCTGATGGAGGCTGGACTGGAGCTTGAGAAGGACTTGAGAATAAAAAGCCAGGGATCCATCTTTGT  
CCGGATACACGCCCGTGGCAGGTGCTGGCCAGAGAGGCAGAATTCTTGAAGATCAAAGTTCTACCAAG  
AAAGAGATGTACGAGATCAAAGCAGGAGGCAGCATTGCAAAGAAGTTCAGCGCGGCTCTGCAGAAGCTGA  
GCTCGCACCTGCAGCCCCGAGTTCAGAACACAGCAACAACAAGTGA AAAACCTCTCTACCCATTCTC  
CAGGGAGAAGATGTACCTGTACAACATCCAGGAAAAGGACACCTCTTTGATAATGCCACCCGAGCCGC  
ATTGTGCACGAGATCCTGAAGCGCACAGCCTGCTCCCGAGCCAACAACACGATGGGTATTAACCTCTGA  
TCGCAACAATATCTATGAGGCTGCCTACCCTCTTCATGACGGTGAATACGATAGTCCAGAGGACGATAT  
GAATGACAGGAAGCTGCTATATCAAGAATGGGCGCGCTATGGAGTGTTCTATAAGTTCCAACCTATTGAC  
CTCATCAGAAAAGTATTTGGAGAAAAAATTGGACTGTATTTGCTGGCTGGGATTATATACATCATTCC  
TCATCCCATCTTCTGTAATTGGAGTGATTGTGTTTCTTTATGGATGTGCAACAATTGAAGAAGATATTCC  
CAGCAGAGAGATGTGTGACCAGCAGAATGCCTTACCATGTGTCCCTGTGTGACAAGTCTGTGATTAC  
TGGAACTCAGCTCAGCCTGTGGACCGCGCAGGCCAGCCACCTGTTTGACAACCCTGCCACCGTCTTCT  
TCTCTATCTTCATGGCTCTGTGGCTACCATGTTCTGGAAAACCTGGAAGAGGCTACAGATGCGACTGG  
CTACTTTTGGACCTGACTGGCATAGAAGAGGAAGAAGACGTGCCAGGAACATTCCAGGCCTGAGTAT



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GAAACCAAAGTTCGAGAGAAAATGCTAAAGGAGAGCAACCACTGCTGTCCAGAAATTGGAAACAAACA  
 CGACGGAGTGTGGCGATGAGGATGATGAAGATAAACTGACCTGGAAGGATCGTTTCCCAGTTACCTGAT  
 GAACCTTGGCTCCATCTTATTATGATTGCCCTGACATTCTCAATCGTCTTTGGGGTGATAGTGTATCGA  
 ATAACAACTGCAGCCGCTCTGTCTCTCAATAAGGCTACACGCTCCAATGTCCGGGTGACAGTGACAGCAA  
 CAGCAGTCATCATCAACCTCGTGGTCATCTCATCTGGACGAGATCTACGGCGCTGTGGCCAAGTGGCT  
 CACCAAAATTGAGGTTCCGAAAACAGAACAGACTTTTGAAGAGCGCTGATCCTCAAAGCTTCTTGCTC  
 AAGTTTGTCAATGCCTACTCCCCATCTTCTATGTGGCCTTTTTCAAAGGGAGGTTTGTGGCAGGCTG  
 GAAGCTACGTCTATGTATTTCGATGGTTACCGCATGGAAGAGTGTGCTCCAGGGGGCTGTCTCATGGAGCT  
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 CTCCTCAACAACGTCATTGAAGTGGCTCGATGCAAAGAAGTTTGTACAGAGCTGAGACGGCCGGATG  
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 AATGGGACTCTGCACGGCTTTGTCAACCACACCTCTCCTTTTTCAACGTGAGCCAGCTGAAGGAGGGGA  
 CGCAGCCAGAAAACCTCACAGTTTGACCAGGAGTTCAGTTCTGCAGGTTTAAAGATTACCAGAGCCGCC  
 ATGGGCCCCGAACCTTATGAGTTTTGAAACAGTACTGGTTTATTCTGTCCGCCCTGTGGCTTTTGT  
 ATAATCTTCCAGAACCTCGTGTGTTCTGAGCGTCTCTGAGGACTGGATGATCCAGACATCCCCACGG  
 ACATCAGCGACCATCAAGAAAGAGAAGAGCTTATTAGTGGATTTCTTCTGAAAGAGGAGCATGAGAA  
 GCTCAAGCTGATGGATGAGCCGGCTCTGAGGAGCCAGGAGTGGGGATCGAAGCAGGAGCCGGGACCC  
 AGCTCAGCACCTTCAGGCCAAAGCCAGCTGGGCAGCATGATGTCGTCAGGCTCTCAGCACACCAATGTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239870 representing NM\_001278596  
 Red=Cloning site Green=Tags(s)

MATPGPRDIPLPGSPRRLSPQAGSRGGQPKHGQQCLKMPGPRAPGLQGGSNRDPGQPCGGESTRSSSV  
 INNYLDANEPVSL EARLSRMHFHDSQRKVDYVLAHYHRKRGVHLAQGFPGHSLAIVSNGETGKEPHAGGP  
 GDIELGPLDALEERKEQREEFEHNLMEAGLELEKDLENKSQGSIFVRIHAPWQVLAREAEFLKIKVPTK  
 KEMYEIKAGGSI AKKFS AALQKLSHLQPRVPEHSNNKMKNLSYFSSREKMYLYNIQEKDFFDNATRSR  
 IVHEILKRTACSRANNTMGINSLIANNIYEAAYPLHDGEYDSEDMDNRKLLYQEWARYGVFYKFPID  
 LIRKYFGEKIGLYFAWLGLYTSFLIPSSVIGVIVFLYGCATIEEDIPSREMCDQQAFTMCPLCDKSCDY  
 WNLSSACGTAQASHLFDNPATVFFSIFMALWATMFLENWKRLQMLGYFWDLTGIEEEERAQEHRSPEY  
 ETKVREKMLKESNQSAVQKLETNTECGDEDEDKLTWKDRFPGYLMNFASILFMIALTFSIVFGVIVYR  
 ITTAAALSLNKATRSNVRVTATAVIINLVVILILDEIYGAVAKWLTKEVPKTEQTFEERLILKAFLL  
 KFNAYSPIFYVAFFKGRFVGRPGSYVYVFDGYRMEECAPGGCLMELCIQLSIIMLGKQLIQNNIFEIGV  
 PKLKKLFRKLKDETEAGETDSAHSKHPEQWDLDYSLPEPYTGLTPEYMEMIIQFGFVTLFVASFLAPVFA  
 LLNNVIEVRLDAKKFVTELRRPDAVRTKDIGIWFIDILSGIGKFSVISNAFVIAITSDFIPRLVYQYSYSH  
 NGTLHGFVNHTLSFFNVSQKKEGTQPENSQFDQEVQFCRFKDYREPPWAPNPYEFKQYWFILSARLAFV  
 IIFQNLVMFLSVLVDWMIPDIPTDISDQIKKEKSLLVDFFLKEEHEKLLMDEPALRSPGGGDRSRRAA  
 SSAPSGQSQLGSMSSSGSHTNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



**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\\_001278596.3](#)

**RefSeq Size:** 3711 bp

**RefSeq ORF:** 3012 bp

**Locus ID:** 57101

**UniProt ID:** [Q9NQ90](#)

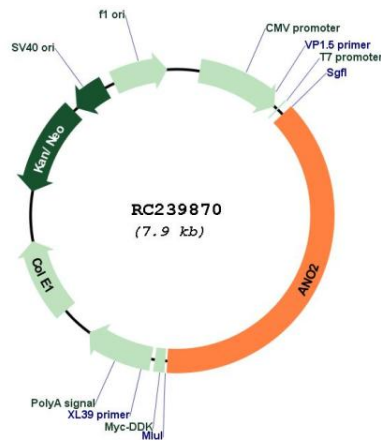
**Cytogenetics:** 12p13.31

**Protein Families:** Transmembrane

**MW:** 114.4 kDa

**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]

**Product images:**



Circular map for RC239870