

Product datasheet for **SC123484**

TMEM16A (ANO1) (BC033036) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM16A (ANO1) (BC033036) Human Untagged Clone
Tag:	Tag Free
Symbol:	TMEM16A
Synonyms:	anoctamin 1, calcium activated chloride; FLJ10261; membrane protein; oral cancer overexpressed 2; ORAOV2; TAOS2; TMEM16A; transmembrane protein 16A; transmembrane protein 16A (eight membrane-spanning domains); tumor amplified and overexpressed sequence 2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC033036 edited AGCGGGGCCCTGTGTTACTGTAGAGAGAAGTCAGTTGCTTAGTTTCAGCCTCCTGCCGGC ACCAAATGCTGACCAGGCCCTCCAGGTGGTGAGCAATGCTGTTCCAGGAGAGGCATCC TAGGGCCAGAGAGGCCAAGGTGCCAGGGACATGGCCCCAACTGTCCCCTAACCAGGGGTA GAGGAGTCTAGACCCTTGACATCAACACCTATGAAAGCTGCTGAACTCCTTATCTGTGGA CCCTGATGCCGAGTGCAAGTATGGCCTGTACTTCAGGGACGGCCGGCGCAAGGTGGACTA CATCCTGGTGTACCATCACAAGAGGCCCTCGGGCAACCGGACCCTGGTCAGGAGGGTGCA GCACAGCGACACCCCTCTGGGGCTCGCAGCGTCAAGCAGGACCACCCCTGCCGGGCAA GGGGCGTCGCTGGATGCAGGCTCAGGGGAGCCCCGATGGACTACCACGAGGATGACAA GCGCTTCCGCAGGGAGGAGTACGAGGGCAACCTCCTGGAGCGGGCCTGGAGCTGGAGCG GGACGAGGACACTAAAATCCACGGAGTCGGGTTTGTGAAAATCCATGCCCCCTGGAACGT GCTGTGCAGAGAGGCCGAGTTTCTGAAACTGAAGATGCCGACGAAGAAGATGTACCACAT TAATGAGACCCGTGGCCTCCTGAAAAAATCAACTCTGTGCTCCAGAAAATCACAGATCC CATCCAGCCAAAGTGGCTGAGCACAGGCCCCAGACCATGAAGAGACTCTCCTATCCCTT CTCCCGGAGAAGCAGCATCTATTTGACTTGTCTGATAAGGATTCCTTTTTCGACAGCAA AACCCGGAGCACGATTGTCTATGAGATCTTGAAGAGAACGACGTGTACAAAGGCCAAGTA CAGCATGGGCATCACGAGCCTGTGGCCAAATGGTGTGTACGCGGCTGCATACCCACTGCA CGATGGAGACTACAACGGTGAAAACGTGAGTTCAACGACAGAAAACCTCTGTACGAAGA GTGGGCACGCTATGGAGTTTTCTATAAGTACCAGCCATCGACCTGGTCAGGAAGTATTT TGGGGAGAAGATCGGCCTGTACTTCGCCTGGCTGGGCGTGTACACCCAGATGCTCATCCC TGCTCCATCGTGGGAATCATTGTCTTCTGTACGGATGCGCCACCATGGATGAAAACAT CCCCAGCATGGAGATGTGTGACCAGAGACAAATATCACCATGTGCCCGCTTTGCGACAA GACCTGCAGCTACTGGAAGATGAGCTCAGCCTGCGCCACGGCCCGCGCCAGCCACCTCTT



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CGACAACCCCGCCACGGTCTTCTCTGTCTTTCATGGCCCTCTGGGCTGCCACCTTCAT
 GGAGCACTGGAAGCGGAAACAGATGCGACTCAACTACCGCTGGGACCTCACGGGCTTTGA
 AGAGGAAGAGGATCATCTAGAGCTGAATACGAAGCAAGAGTCTTGAGAGAAGTCTCTGAA
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 CCAGAACAACCTGTTGAGATCGGCATCCCGAAGATGAAGAAGCTCATCCGCTACCTGAA
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 CATGCGGGAGGAGCAAGACAAGCAGCAGCTGCTGGAAACCTGTATGGAGAAGGAGCGCA
 GAAGGACGAGCCCGCTGCAACCACCACAACACCAAAGCCTGCCAGACAGCCTCGGCAG
 CCCAGCCCCAGCCATGCCTACCACGGGGGCTCCTGTAGCTATGCCAGCGGGGCTGGGC
 AGGCCAGCCGGGCATCCTGACCGATGGGCACCCTCTCCAGGGCAGGCGGCTTCCCCTC
 CCACCAGGGCCCCGAATGCTACTGTTGGACAATTATTTTAAAAGTGTATAAAACCAAGTC
 TCATAAATGATATGAGTATCTAAATTTGCAGCAATGATACTAAACAACCTCTGAAATT
 TCTCAAGCACCAAGAGAAACATCATTTTAGCAAAGGCCAGGAGGAAAAATAGAAATAAAT
 TTGCTTGAAGATCCCAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for BC033036 unedited
 NAGAGTCTGTATTTGTATACGACTTCTATAGCGGCCGCATAACTTCGTATAGCATAACAT
 TATACGAAGTTATGGATCAGGCCAAATCGGCCGAGCTCGAATTCGTGAGAGCGGAGCGG
 GGCCTGTGTTACTGTAGAGAGAAGTCAAGTTGCTTAGTTTCAGCCTCCTGCCGGCACAA
 ATGCTGACCAGGCCCTCCAGGTGGTGAACAATGCTGTTTCCAGGAGAGGCATCCTAGGG
 CCAGAGAGGCCAAGGTGCCAGGGACATGGCCCCAAGTGTCCCCTAACAGGGGTAGAGGA
 GTCTAGACCTTGACATCAACACCTATGAAAGCTGCTGAACTCCTTATCTGTGGACCCTG
 ATGCCAGTGAAGTATGGCCTGTACTTCAGGGACGGCCGGCGCAAGGTGGACTACATCC
 TGGTGTACCATCAAGAGGCCCTCGGGCAACCGGACCCTGGTCAAGGAGGTGCAGCACA
 GCGACACCCCTCTGGGGCTCGCAGCGTCAAGCAGGACCACCCCTGCCGGGCAAGGGGG
 CGTCGCTGGATGCAGGCTCATGGGAGCCCCGATGGACTACCACGAGGATGACAAGCGCT
 TCCGCANGGAGGAGTACGAGGGCAACCTCCTGGAGGCGGGCTGGAGCTGGAGCGGGACG
 AGGACACTAAAAATCCACGAGTGGGTTTGTGAAAATCCATGCCCCCTGGAACGTGCTGT
 GCANAGAGGCCAGTTTCTGAAAACCTCGGAAAAAGGCCCCCCCCCCNNGNNNNT
 NGGGGNNGGAGAGGGGAGAGGGGTTATGGGACTTCCCGAATTGTGACTTTCCTCTTTT
 TGCCCCACGCNCTTAAACGTAGTGTGTGCCGGGTGGGGCCCGCCACGATA

Restriction Sites:

Please inquire

ACCN:	BC033036
Insert Size:	3277 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:	<ol style="list-style-type: none">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:	<u>BC033036.2</u> , <u>AAH33036.2</u>
RefSeq Size:	3272 bp
RefSeq ORF:	2520 bp
Locus ID:	55107
Cytogenetics:	11q13.3
Protein Families:	Transmembrane
Gene Summary:	Calcium-activated chloride channel (CaCC) which plays a 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]