

Product datasheet for **MC200539**

Tmem16a (BC006062) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tmem16a (BC006062) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Tmem16a |
| Synonyms: | Tmem16a |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC006062
 CCCACGCGTCCGGTCCGCTTCTTCAAAGGCCGGTTTGTGGTCCGCCCGGTGACTACGTGTACATCTTCC
 GCTCTTCCGGATGGAGGAGTGTGCCCCGGGCGCTGCCTCATGGAGCTCTGTATCCAGCTGAGCATCAT
 TATGCTGGGAAGCAGCTAATCCAGAACAATCTCTCGAGATTGGCATCCCGAAGATGAAAAAGTTCATC
 CGCTACCTGAAGCTGCGCAGACAGAGCCCTCAGACCGTGAAGAGTACGTGAAGCGGAAGCAGCGCTATG
 AGGTGGACTTCAACCTCGAACCTTTCGCCGGCCTCAGCCCGAGTACATGGAAATGATCATTTCAGTTCGG
 CTTTGTACCCCTGTTTGTTCGCTCCTTCCCTCTGGCTCCACTCTTCGCCCTGCTAAACAACATCATTGAG
 ATCCGCTGGATGCCAAAAAGTTTGTACCGAGCTACGGAGGCCAGTAGCCATCAGAGCCAAAGACATCG
 GCATCTGGTATAACATCCTCAGAGGTGTTGGGAAGCTGGCTGTCATCATTAAATGCCTTTGTGATCTCCTT
 CACGTCTGACTTCATCCCTCGCCTGGTGTACCTTACATGTACAGTACAGATCAGAATGGGACCATGCACGGCTT
 GTCAATCACACGCTCTCTTCTTCAATGTACGCGACTTCCAGAATGGCACAGCACCCAATGACCCACTGG
 ACCTGGGCTATGAGGTTGAGATCTGCAGGTATAAAGATTACCGGGAACCCCATGGTGCAGAACACAAGTA
 TGACATCTCCAAAGACTTCTGGGCTGCTTGGCCGCCGACTGGCATTGTGATTGCTTCCAGAACCTG
 GTGATGTTTCATGAGTGACTTTGTGGACTGGGTGATCCCTGATATCCCAAAGACATCAGCCAGCAGATCC
 ACAAGAGAAGGTTCTCATGGTGGAGCTGTTTATGCGTGAGGAGCAGGGCAAGCAGCAGCTACTGGACAC
 ATGGATGGAGAAGGAGAAGCCAAAGGGATGTGCCTTGTAACAACCACAGCCCCACAACCCACCCAGAGGCA
 GGCGACGGCAGCCAGTCCCCAGCTACGAGTACCATGGGGACGCACTGTAGCCATGATGACAGGCCAGCA
 GGCCAGCAGGCTTCTGACCATCACCAAGTGACCACTCGGCTTCTCCAAAGCCAGCACTTCTAGCCCCAC
 CAGGGCTATGGCTTTGTGCTGCTGGACGTGTGGAGGAGCACTCTGATGCGACAACGGTCTTCTTTCT
 TCTTTCTGTTTCTTCTCATTGTTTGCACAAGGCCATTATGACAGGGAAGTTTTATCTTTAGTATTCAATGC
 CAAGGATGGCTGGTATGGGGATGAACAGGGTGAAGCATGTTCCACAGACATATGGAGGAATATAGAGCC
 CCCCTGTGGTGGTAGGGAGCCAAGTCAGCATCCTTAGTCTGAAGGATGCCCTGGGATAGATGCAGAATGG
 TACCTAGGAACCTGCTGACATTTTGCAGAAGGGTGAACAACCTCAGACTCAGATTCCCAAAGATGTCACCT
 GCTCTAGCTGGACAAGCTGGAAGACTCCACTGTCTTTCTTCTGGGAGCTCAGAAGTTCAGACCTGGGGT
 CAGAAACAGAGGTGCCTGACCACCCACACAGCACACACATGGTGGCTTACATTGTACTCCAGTAACG
 GAGGAGTACAGGGGCTCCAGTTGTCCAGTACCCTTGGGGTCCCTGGCAGGCTGCACACAAGCCACTCAA
 GGGCCCCACATGAAGCTGATGCTCCTTGTGAGACAAGCTGTCGTGGCAATCTCTAAACAGGCTGGA
 GGGCTTACCAAGCCCTGGGGCTCTGTGGTTCAATTTTTTTTTTTTTTTTGTCTTTTAAACCATCTATTG
 GTTTTTGTCTAAAAATCAATAATGTGATGGATTTGAGGGATTTCTTTCTGTAGCTGAAGGTGGAAGGAG
 TTTATTTCTATTAGTTAACCAAATACTGAGAGGAAATTAATATCATTACTACCAAAGATTTTTCTCAAT
 AAAAGCTTCTATTTTGGTAACACACCTATATTTTCACTCGTGGGGATGAGACCCTCAGCACTTACCATTG
 TAATAGCTTCTAAACAAGCCTCATGGCCAGCTTCATTTGATGTGCTAGCCAGCTGTGCAAGGCCCTCTC
 GGCACCATTGCCAGAAGTGTCTCTCAGCCCAAGCCGAAGAAGGCAATCCCTGCACTCGTCTTAGGGCA
 AGGCAGACAGTGTGATGTTTCGTGAGCTGGGGTCCGAATCTCAGGCTTCCAAGGTTTGCAGTGTGTTGCTA
 AAATCATGAGACCTGATGCTTCTATTTTCTTGTGCAAGTGTGGTTTCCAATGATGTTTTGTATATA
 GCTACTGTATCCAAAATTAGATAATTACCAAAAATCTTTTACAGAAACCATTTTAAAAAACAACAAAA
 AAAACTAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC006062

Insert Size: 1020 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: [BC006062](#), [AAH06062](#)

RefSeq Size: 2473 bp

RefSeq ORF: 1020 bp

Locus ID: 101772

Cytogenetics: 7 F5

Gene Summary: Calcium-activated chloride channel (CaCC) which plays an important 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]