

## Product datasheet for **MG210776**

### **Tmc6 (BC004840) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                    |
| Product Name:             | Tmc6 (BC004840) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                               |
| Symbol:                   | Tmc6                                   |
| Synonyms:                 | D11Ertd204e; EVER1                     |
| Mammalian Cell Selection: | Neomycin                               |
| Vector:                   | pCMV6-AC-GFP (PS100010)                |
| E. coli Selection:        | Ampicillin (100 ug/mL)                 |



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**ORF Nucleotide Sequence:**

>MG210776 representing BC004840  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTCAGTCACTGGCTTTAGCCCTCGATGTCCCGGAGACCACGGGAGACGAAGCCTGGAGCCCAGCC  
 CCTATGAAGAAAAGTGAAGTCCATGACTCCTTCCACCAGCTCATCAAGAGCAAAGCCTTCGGGTGGCGGA  
 GGAGGGGCTGGAGCTACTGCCCTTGGGTCTAGGCAGAGGTGACCAGACCCTCCCAGGACTTGAAGGTGCT  
 CCTGCCCTTAGCTCGGCCACTCTCCGCATCCTGGCCAGCATGCCAGCCGTACCATTTGGTCGCAGCCGTG  
 GGGCCATCATCTCCAATACTACAACCGCACAGTGAGGCTTCGGCGCAGGAGCAGCCGGCCCTTGTGGG  
 CAATGTGGTGCCCTTGCCCGGCCAGCCTTCGCCTGTATGACCTGGAGCTGGACTCCACAATCTTGGAG  
 GAGGATGAGAAGCGGAGTCTGCTAGTAAGGAGCTTCAAGGTCTGTGGCGGCCAGAGGGACCACATGG  
 TCGGAACATGCCCTTGAGTCTGGGTGAGAAGCGCTGTCTTCGAGAGAAAAGTTGGAGCCCAAAGGGAAA  
 GCGGCGGCACCTGCAGGGTCAAGCGGGGCCCTTCTCCTGTGTAGCCGGCTCAGATACACCTGCATGCTG  
 GCTCTTCATAGCCTGGGGCTGGCACTGCTCTCAGGCTGTATGCTGCCAGGCCGTGGCGCTATGCTCTGA  
 AGCAGATCGGTGGCCAGTTTGGCTCCAGCGTCTCTCCTACTTCTCTTCTCAAGACCCTGTTGGCCTT  
 CAACGCGCTGATGTTGCTGCCTTGTGGCCTTCTCGTGGGTGTTTACAGCTGCCTTCCACCTGACCCA  
 GCAGGCCCGTGCTACGTTTTCTGGTCTGGAACCTCTCACAGGCCGGGGCCGGTTCACACACACAGTTA  
 TGTAACAGGCTACTACAGTAACAGCACGCTGAGCCCGTCATGTGACGCCCTCGGAAGGTGGCCAGTG  
 CAGTCCCAGGCTGGGCAGCCTGCCCTAACATGCCGCTGGCCTACCTCTTACAATGGGGGCCACCTTC  
 TTCTTACCTGCATCATTCTGGTATACAGCATGTCCACTCCTTTGGGGAGAGCTACCGGTTGGCAGTA  
 CCAAGGGTATCCATGCCCTTACGGTCTTCTGCTCCTGGGACTACAAGGTGACACAGAAGAGGCTTCCCT  
 TGTCCAACAGGACAGCATCTGCACTCAGCTGAAGGAGCTGTTGGCTGAATGGCACCTTCGAAAGCGCCT  
 CGGAGTGTGTGGGGCAGCTGAGGCAGGTCTGCTTCTAGGTCTGGGGTGGCTGCTGTGTCTGGGCTCCA  
 CAATGGGCTGCACGGTGGCTGTCTCACCTTCTCAGAGGTAATGATTAGAGACCTGCTTCTGGTGGCCA  
 GGGGGTGGAGGCTTGGCCTTGGCCCTGGTGGTCAAGTGTCTTAACTGGGTGCCCTACCTGTTCCGT  
 GGTCTAGCCACTCTGGAGCGACATGACTCCCCTGTGTTGGAGGTATACATGGCCATCTGCAGGAACCTCA  
 TCCTGAAGATGGCCGCTCTGGGTGTGCTTTGCTATCACTGGCTGGGCCGAGGGTGGCCACCCTGCAGGG  
 TCAGTGTGGGAGGACTTTGTGGCCAGGAGCTGTACCGCTTCATGGTCTGGATTTTATCTTTCATGCTC  
 TTGGACTCCCTTTTGGAGAGTTGGTGTGGAGGCTCATCTCAGAGAAGAAGCTCAAGAGGGGGCAGAAGC  
 CTGAGTTTGACATTGCCAGGAATGTGCTGGACCTGATTTATGGACAGACTGACCTGGCTGGGCGTCTCT  
 GTTCTCACCGCTCCTGCCTGCAGTACAGATTCTCCGGCTGCTCTTCTTTCCACATCAAGAAGGCCAGC  
 CTGATGGCCAACCTGCCAGGCACCACGCCAGCCCTGGCTGGCCTCGCACATGAGCACTGTCTTCTCACCT  
 TGCTCTGCTTCCCGTCTTCTGGGCGCTGCTGTTTTCTCTGCTATGCTGTCTGGCAGGTGAGGCCCTC  
 GAGCACTGTGGCCCTTCCGGACTCTGAACACCATGTATGAAGCAGGCACGGTCTGGGTGCGTGCCTG  
 GAGCATGCAGGCTCCGGAGCCTCCTGGCTGCCCTGGCTGCACCACTTCTGGTGGAGAACAACCTTTCTCC  
 TCTTCTGGCTTCCAGCCCTGCTGCTGGTGTCACTACTTCAACATCCAGGTGGTGAAGGACAACGGAA  
 GGTCATCTGCCTGCTCAAGGAGCAGATCCGGAATGAAGGAGAGGACAAGATCTTCTGATCAACAAGCTT  
 CACTCTGTTTACGAGGAGGAGGGAAGGAGCAGGCTGGCAGAACCAGGATGCTACTGAACCACCTGCCT  
 GGCATGAGGATGGAGGGACCAGAAGGAACCCTGTAACCCCGGTACCA

**ACCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG210776 representing BC004840  
 Red=Cloning site Green=Tags(s)

MAQSLALALDVPETTGDGEGLEPSPYEESEVHDSFHQLIQEQSLRVAEEGLELLPLGLGRGDQTLPGLEGA  
 PALSSATLRILASMPSTRIGRSRGAIIISQYYNRTVRLRRRSSRPLLGNVVP SARPSLRLYDELDSTILE  
 EDEKRSLLVKELQGLSAAQRDHMVRNMPLSLGEKRCLREKSWSPKGKRRHLQGRSGAFSCCSRLRYTCML  
 ALHSLGLALLSGLYAARPWRYALKQIGGQFGSSVLSYFLFLKTLTLLAFNALMLLPLLAFLVGVQAAFPDP  
 AGPVPTFSGLELLTGGRFTHTVMYYGYYSNSTLSPSCDAPREGGQCSPLGSLPYNMPLAYLFTMGATF  
 FLTTCIILVYSMSHSFGESYRVGSTKGIHALTVFCSWDYKVTQKRASRVQQDSICTQLKELLAEWHLRKR  
 RSVCGQLRQVVVLGLGWLLCLGSTMGCTVAVLTFSEVMIQRPASGGQGV EALALPLVSVLNLGASYLFR  
 GLATLERHDSPLLEVYMAICRNLILKMAVLGVLCYHWLGRRVATLQGCWEDFVGQELYRFMVVDFIFML  
 LDSLFGELVWRLISEKKLKRQKPEFDIARNVLDLIYGQTLTWLGVLFSPLLPAVQILRLLFLFHIKKAS  
 LMANCQAPRRPWLASHMSTVFLTLLCFPSFLGAAVFLCYAVWQVRPSSTCGPFRTLNTMYEAGTVWVRRL  
 EHAGSGASWLPWLHHFLVENTFFLFLASALLLAVIYFNIQVVKQQRKVICLLKEQIRNEGEDKIFLINKL  
 HSYVEEGRSRPGRTQDATEPPAWHEDGGDQKEPCNPRSP

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

Cloning Scheme:



ACCN: BC004840

ORF Size: 2430 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:** [BC004840.1](#)

**RefSeq Size:** 2848 bp

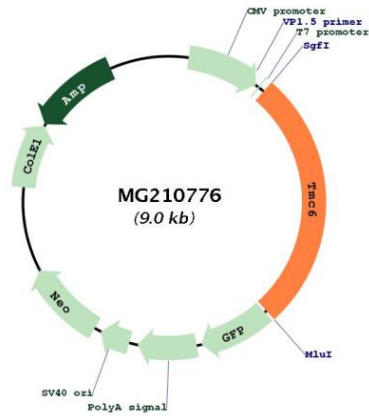
**RefSeq ORF:** 2432 bp

**Locus ID:** 217353

**Cytogenetics:** 11 82.96 cM

**Gene Summary:** Probable ion channel.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG210776