

## Product datasheet for **MG201580**

### Tmem65 (BC049380) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tmem65 (BC049380) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tmem65  
**Synonyms:** 2610029O13Rik; 4930438D12Rik  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201580 representing BC049380  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGGCGCTGAACACGGCGCAGGGCGCGCGACTTCATCTACAGCCTGCACTCCACGGAGAGGAGCT  
 GCTTGCTCAAAGAGCTGCACCGCTTCGAGTCCATTGCCATCGCACAAGAAAAATTGGAAGCTCTACCACC  
 CACTCCAGGACAGCTGAGATATGTATTCTCCACAATGCGATACCTTTCGTAGGGTTTGGCTTTTGGAT  
 AACGCAATTATGATTGTTGCAGGAACCCAAATTGAATTGTCTATTGGAATTATCTTGGGGATTTCAACAA  
 TGGCAGCTGCTGCTTTGGGAAATCTTGTTCAGATTTAGCTGGACTGGGCCTTGCAGGTTATGTTGAGGC  
 CTTGGCGTCCAGGCTAGGCCTCTCAATTCCTGATCTTACACCAAAGCAAGTTGACATGTGGCAAACACGT  
 GTTAGCACACATTTGGGCAAGGCTGTTGGGGTGACGATCGGCTGCATTCTAGGAATGTTCCCGTTGATTT  
 TCTTTGGAGGAAGTGAAGAGGATGAGAACTGGAAACAACAAAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG201580 representing BC049380  
 Red=Cloning site Green=Tags(s)

MEALNTAQGARDFIYSLHSTERSCLLKLHRFESIAIAQEKLEALPPTPGQLRYVFFHNAIPFVGFGLD  
 NAIMIVAGTQIELSIGIILGISTMAAALGNLVSIDLAGLAGLYVEALASRLGLSIPDLTPKQVDMWQTR  
 VSTHLGKAVGVITIGCILGMFPLIFFGGSEDEKLETTN

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** BC049380

**ORF Size:** 536 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:** [BC049380](#), [AAH49380](#)

**RefSeq Size:** 2688 bp

**RefSeq ORF:** 536 bp

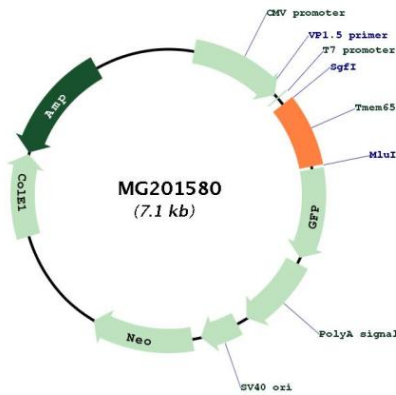
**Locus ID:** 74868

**Cytogenetics:** 15 D1

**Gene Summary:**

May play an important role in cardiac development and function. May regulate cardiac conduction and the function of the gap junction protein GJA1. May contribute to the stability and proper localization of GJA1 to cardiac intercalated disk thereby regulating gap junction communication (PubMed:26403541). Regulates mitochondrial respiration and mitochondrial DNA copy number maintenance (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG201580