

Product datasheet for MR201580

Tmem65 (BC049380) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tmem65 (BC049380) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tmem65
Synonyms: 2610029O13Rik; 4930438D12Rik
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201580 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGCGCTGAACACGGCGCAGGGCGCGCGACTTCATCTACAGCCTGCACTCCACGGAGAGGAGCT
 GCTTGCTCAAAGAGCTGCACCGCTTCGAGTCCATTGCCATCGACAAGAAAAATTGGAAGCTCTACCACC
 CACTCCAGGACAGCTGAGATATGTATTCTCCACAATGCGATACCTTTCGTAGGGTTTGGCTTTTGGAT
 AACGCAATTATGATTGTTGCAGGAACCCAAATTGAATTGTCTATTGGAATTATCTTGGGGATTTCAACAA
 TGGCAGCTGCTGCTTTGGGAAATCTTGTTCAGATTTAGCTGGACTGGCCTTGCAGGTTATGTTGAGGC
 CTGGCGTCCAGGCTAGGCCTCTCAATTCCTGATCTTACACCAAAGCAAGTTGACATGTGGCAAACACGT
 GTTAGCACACATTTGGGCAAGGCTGTTGGGGTGACGATCGGCTGCATTCTAGGAATGTTCCCGTTGATT
 TCTTTGGAGGAAGTGAAGAGGATGAGAACTGGAACAACAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201580 protein sequence
 Red=Cloning site Green=Tags(s)

MEALNTAQGARDFIYSLHSTERSCLLKLHRFESIAIAQEKLEALPPTPGQLRYVFFHNAIPFVGFGLD
 NAIMIVAGTQIELSIGIILGISTMAAALGNLVSDLAGLGLAGYVEALASRLGLSIPDLTPKQVDMWQTR
 VSTHLGKAVGVTIGCILGMFPLIFFGGSEDEKLETTN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:


ACCN: BC049380

ORF Size: 534 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

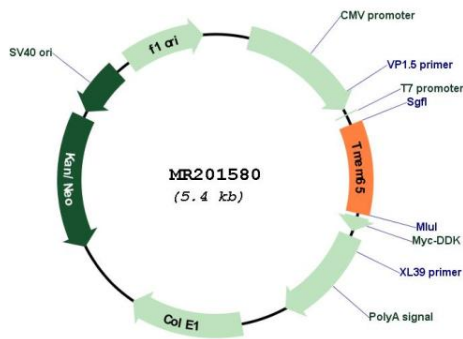
Cytogenetics: 15 D1

MW: 19.1 kDa

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 MR201580