

Product datasheet for **RG207368**

TMEM65 (NM_194291) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM65 (NM_194291) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TMEM65
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG207368 representing NM_194291
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCGGCTGCTGCGGCTGCTGAGGAGCCGGACCGCGCAGCCTGAGGCCGGGCCCGGCCCGCCG
 CCGCGCCCCGCCGCTCCTGGTGTGCTGCGGGCGGGGCTGCTGGCGCTCGCGCCCCCGCGGCTT
 GCCGGGCGGCCAGGCGGCTGGGCACGCACCCCAAGAAGGAGCCATGGAGGCGCTGAACACGGCGCAG
 GCGCGCGCGACTTCATCTACAGCCTGCACTCCACGGAGAGGAGCTGCCTGCTCAAAGAGCTGCACCGCT
 TCGAGTCTGTTGCCATTGCCAAGAAAAATTGGAAGCTCCACCACCCACCCAGGACAGCTGAGATATGT
 ATTCATCCACAATGCGATACCTTTCATAGGTTTGGCTTTTGGATAATGCAATTATGATTGTTGCTGGA
 ACCCATATTGAAATGTCTATTGGAATTATTTGGGAATTTCAACTATGGCAGCTGCTGCTTTGGGAATC
 TTGTGTGAGATCTAGCTGGACTTGGACTTGACAGGCTACGTTGAAGCATTGGCTTCCAGGTTAGGCCTGTC
 AATTCCTGATCTCACACCAAGCAAGTTGACATGTGGCAACACGCTTTAGTACACATTTGGGCAAGCT
 GTTGGGTGACTATTGGCTGCATTCTAGGAATGTTTCCTTAATTTCTTTGGAGGAGGTGAAGAAGATG
 AAAA**ACTGGAACGAAAAGT**

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207368 representing NM_194291
 Red=Cloning site Green=Tags(s)

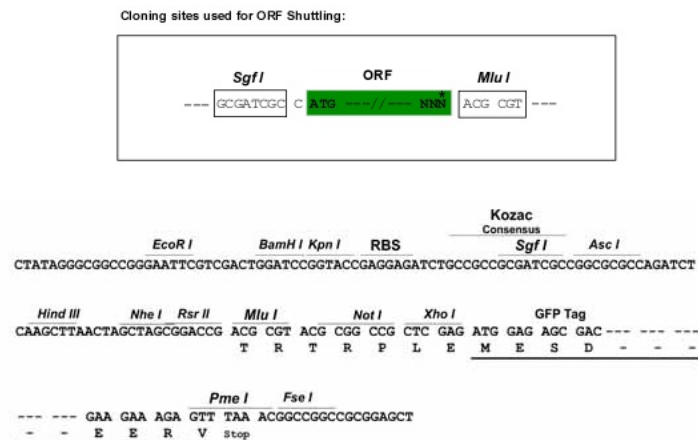
MSRLRLRLRSRTARSLRPGPAAAAAPRPPSWCCGRGLLALAPPGGLPGGPRRLGTHPKKEPMEALNTAQ
 GARDFIYSLHSTERSCLLKEHRFESVAIAQEKEAPPPTPGQLRYVFIHNAIPFIGFGFLDNAIMIVAG
 THIEMSIGIILGISTMAAALGNLVSDLAGLGLAGYVEALASRLGLSIPDLTPKQVDMWQTRLSTHLGKA
 VGVITIGCILGMFLIFFGGGEDEKLETKS

TRTRPLE - GFP Tag - V


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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_194291

ORF Size: 720 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

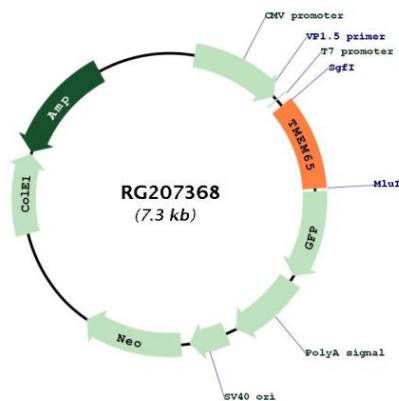
RefSeq: [NM_194291.1](#), [NP_919267.1](#)

RefSeq Size: 3258 bp

RefSeq ORF: 723 bp

Locus ID:	157378
UniProt ID:	Q6PI78
Cytogenetics:	8q24.13
Protein Families:	Transmembrane
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 contributes to the stability and proper localization of GJA1 to cardiac intercalated disk thereby regulating gap junction communication (By similarity). May also play a role in the regulation of mitochondrial respiration and mitochondrial DNA copy number maintenance (PubMed:28295037). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG207368