

Product datasheet for RG215469

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TMEM170B (NM_001100829) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: TMEM170B
Mammalian Cell: Neomycin
Selection:
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215469 representing NM_001100829
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATCGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGGCGGAGGGGGCGACCACTCCATGATCAACCTGTCGGTGCAGCAGGTCTGAGCCTCTGGGCC
 ACGGGACGGTCTGAGGAACCTCACGGAGATGTTGACTGGATCTCCTCTGGCTCTTCTTCT
 GTTGTCATGGTCTGCAGGAGTGTGATGTTGTGATGCTGCAGAGGATAGCCAGGGAAAGTCATC
 TCTGTCTTCAGTCAGCATTGGATTCGCTCTGTAACTGGAGCGATGATTACAGTCAGCAGTAG
 CGGGCATTACAGAGTAGCTGGAAAGAACATGGCCCTTGGAGCGCTGGTATGGGGCGTTGGACAGAC
 TGTACTGACATTAATCATCTCTTTCAAGGATCTCGTACACTT

ACCGGTACGCGGCCGCTCGAG - GFP Tag - GTTAA

Protein Sequence: >RG215469 representing NM_001100829
 Red=Cloning site Green=Tags(s)

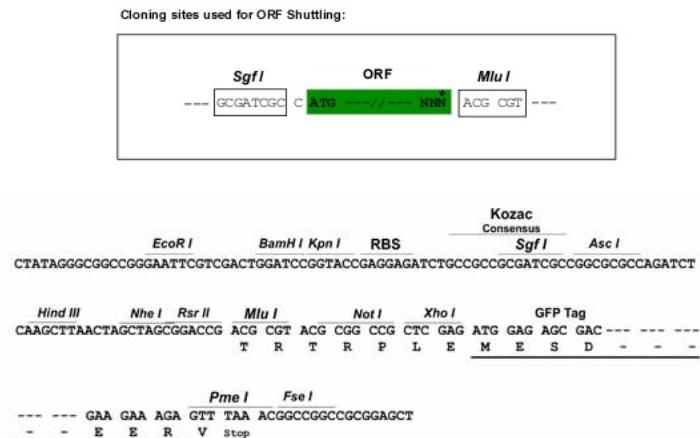
MKAEGGDHSMINLSVQQVLSLWAHGTVLRLNTEMWYWIFLWALFSSLFVHGAAGVLMFVMLQRHRQGRVI
 SVIAVSIGFLASVTGAMITSAAVAGIYRVAGKNMAPLEALVWVGQTVLTLIISFSRILATL

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



Cloning Scheme:



ACCN: NM_001100829

ORF Size: 396 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_001100829.3](#)

RefSeq Size: 8362 bp

RefSeq ORF: 399 bp

Locus ID: 100113407

UniProt ID: [Q5T4T1](#)

Cytogenetics: 6p24.2

Gene Summary: Negatively regulates the canonical Wnt signaling in breast cancer cells. Exerts an inhibitory effect on breast cancer growth by inhibiting CTNNB1 stabilization and nucleus translocation, which reduces the activity of Wnt targets (PubMed:29367600). [UniProtKB/Swiss-Prot Function]

Product images:

