

Product datasheet for **RG228067**

TMEM41B (NM_001165030) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM41B (NM_001165030) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TMEM41B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG228067 representing NM_001165030
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAAAGGCAGAGTCGCCGAACGATCGCAGTTGGGCGCTCACCACACGACCCCGTGGGGGACGGGG
CAGCGGGACGCGGGGTCTCGCGGCGCCTGGCAGCAGAGACCACCAGAAGGAAAAATCCTGGGTAGAAGC
TGGATCAGCAAGAATGTCACCTTATATTGGTGTCCATTTTCTTATCTGCAGCTTTTGTATGTTTTTG
GTATATAAAAAATTTTCTCAGCTTAGTGAAGAAGAAAGAGTGAATATGAAGGTTCCAGAGATATGGATG
ATGCCAAGGCTCTAGAAAAGTTTTATCCAATAACAAGGACACCTTTTATGTTCAAGTACTTGTAGCTTA
TTTTGCTACATATATTTTGTATCCTTTTAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228067 representing NM_001165030
Red=Cloning site Green=Tags(s)
MAKGRVAERSQLGAHHTTPVGDGAAGTRGLAAPGSRDHQKEKSWVEAGSARMSLLILVSIFLSAAFVMFL
VYKNFPQLSEEERNMKVPRDMDDAKALGKVL SKYKDTFYVQVLVAYFATYIILYFVN

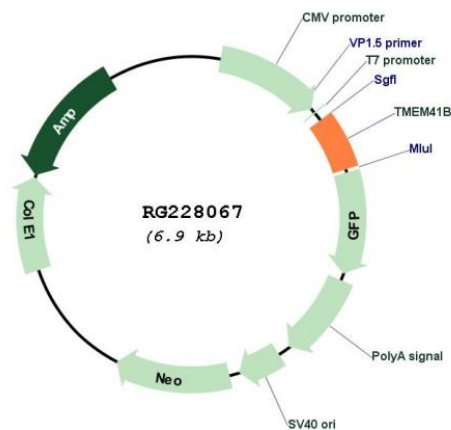
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:

Plasmid Map:


ACCN: NM_001165030

ORF Size: 381 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:	<ol style="list-style-type: none">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:	<u>NM_001165030.3</u>
RefSeq Size:	862 bp
RefSeq ORF:	384 bp
Locus ID:	440026
UniProt ID:	<u>Q5BJD5</u>
Cytogenetics:	11p15.4
Protein Families:	Transmembrane
Gene Summary:	Required for normal motor neuron development (By similarity). Required for autophagosome formation (PubMed:30093494).[UniProtKB/Swiss-Prot Function]