

## Product datasheet for **RG216351**

### TMEM41B (NM\_015012) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM41B (NM_015012) 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:	>RG216351 representing NM_015012 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAAAGGCAGAGTCGCCGAACGATCGCAGTTGGGCGCTCACCACACGACCCCGTGGGGGACGGGG  
CAGCGGGGACGCGGGGTCTCGCGCGCCTGGCAGCAGAGACCACCAGAAGGAAAAATCCTGGGTAGAAGC  
TGGATCAGCAAGAATGTCACCTTATATTGGTGTCCATTTTCTATCTGCAGCTTTTGTATGTTTTTG  
GTATATAAAAAATTTCTCAGCTTAGTGAAGAAGAAAGAGTGAATGAAGGTTCCAGAGATATGGATG  
ATGCCAAGGCTCTAGGAAAAGTTTTATCCAAATACAAGGACACCTTTTATGTTCAAGTACTGTAGCTTA  
TTTTGCTACATATATTTCTTGCAAACATTTGCTATTCCAGGCTCTATATTTCTCAGTATACTCTCAGGG  
TTTCTTTATCCCTTTCCACTAGCCTTATTTCTGTTTGTGTTCTGGACTTGGTGCCTCTTTCTGTT  
ATATGCTTTCCTATTTAGTTGGGAGACCAGTTGTATACAAATACCTAACAGAGAAAGCAGTAAAATGGTC  
ACAGCAGGTTGAACGTCATAGAGAACATCTCATTAACTACATTATTTTTGAGAATAACACCATTTCTG  
CCTAATTGGTTTATTAATATCACATCTCCTGTGATAAACGTGCCATTGAAAGTTTTTTTTATTGGTACTT  
TTCTAGGTGTGCACCTCCTCTTTTGTAGCCATTAAGGCAGGAACAACACTGTATCAACTTACAACAGC  
AGGAGAAGCTGTTTCTGGAACCAATATTTATCTGATGATCTGGCTGTTCTTTCTATTCTGCCAGCC  
ATCTTCAAAAAAACTAAAGCAGAAATTTGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG216351 representing NM\_015012  
Red=Cloning site Green=Tags(s)

MAKGRVAERSQLGAHHTTPVGDGAAGTRGLAAPGSRDHQKEKSWVEAGSARMSLLILVSIPLSAFVMFL  
 VYKNFPQLSEEERVNMKVPRDMDDAKALGKVL SKYKDTFYVQVL VAYFATYIFLQTFaipgsiflsilsg  
 FLYPFPLALFLVCLCSGLGASFCYMLSYLVGRPVVYKYLTEKAVKWSQQVERHREHLINYIIFLRITPFL  
 PNWFINITSPVINVPLKVFFIGTFLGVAPPSFVAIKAGTTLYQLTTAGEAVSWNSIFILMILAVLSILPA  
 IFQKCLKQKFE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015012

**ORF Size:** 873 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:** [NM\\_015012.4](#)

**RefSeq Size:** 1635 bp

**RefSeq ORF:** 876 bp

**Locus ID:** 440026

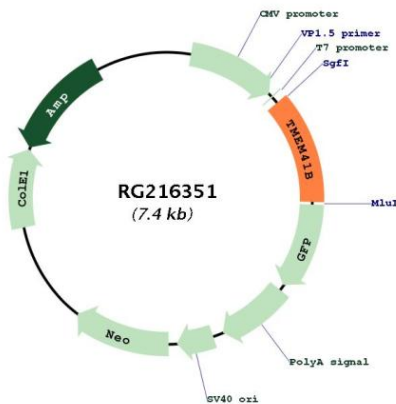
**UniProt ID:** [Q5BJD5](#)

**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]

## Product images:



Circular map for RG216351