

Product datasheet for **MG203985**

Tmem41b (NM_153525) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem41b (NM_153525) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem41b
Synonyms:	1500015G02Rik; 1500031M19Rik; AU018901; D7Ert70e; D7Ert743e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203985 representing NM_153525 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAAAGGCAGAGTGGCTGATCGATCGCCACCGAAATGTTGCACTCGACCCAGCCGGGGACCGGG
CAGTGAGGACCCAGGGTCCGCCGCGCTGGCAGCAAAGATCATCTGAACGAAAAGCCTTGTGCAGAAGC
TGGATCAGCAAGAACATCACTCCTTATACTGGTGTCCATTTTTTCATGTGCAGCTTTTGTATGTTTTG
GTATATAAAAATTTTCTCAGCTTAGTGAGGAAGAGAGGGTGAATATGAAGTTCCGAGAGATATGGATG
ACGCCAAGGCTCTAGGAAAAGTTCTCTCAAATAAAGGATACCTTTTATGTACAAGTATTGGTTGCTTA
TTTTGCTACATATATTTTTTGCAAACATTTGCTATCCAGGTTCCATATTCCTCAGTATACTCTCCGGG
TTCTTTATCCCTTCCCCTTGCCTTATTCCTTGTGTTTGTGCTCCGGACTTGGTGCCTCATTCTGCT
ACATGCTCTCCTACTTAGTTGGAAGACCCGTTGTATACAAATACCTAACAGAGAAGGCAGTAAAATGGTC
ACAGCAGGTAGAGCGTCACAGAGAACATCTTATTAACACATTATTTTTGAGGATCACACCGTTTCTT
CCTAATTGGTTTATTAATATTACATCTCCTGTGATAAATGTACCATTGAAAGTGTTTTTATTGGCACTT
TTCTAGGTGTTGCACCTCCTTCTTTGTAGCAATCAAGGCAGGAACAACCTCTGCATCAGCTTACAACAGC
AGGGGAAGCTGTTTCTGGAGCTCGGTATTTATCTGATGGTTTTGGCCCTTCTTCTATCTGCCAGCC
ATCTTCCAAAAACAACAAAGCAGAAGTTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203985 representing NM_153525
 Red=Cloning site Green=Tags(s)

MAKGRVADRSPTEMLHSTPAGDRAVRTQGSAAPGSKDHLNEKPCAEAGSARTSLILVSIFFSAAFVMFL
 VYKNFPQLSEEVRNMKVPRDMDDAKALGKVL SKYKDTFYVQVL VAYFATYIFLQTF AIPGSI FL SILSG
 FLYPFPLALFLVCLCSGLGASFCYMLSYLVGRP VVYKYL TEKAVKWSQQVERHREHLINYIIFLRITPFL
 PNWFINITSPVINVPLKVFFIGTFLGLVAPPSFVAIKAGTTLHQLTTAGEAVSWSSVFILMVLALLSILPA
 IFQKQLKQKFE

TRTRPLE - GFP Tag - V

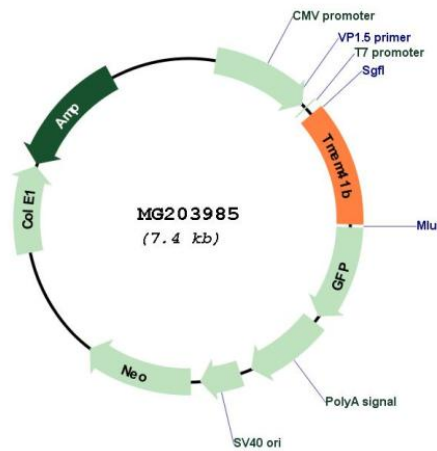
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_153525

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:	<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:	NM_153525.5
RefSeq Size:	3620 bp
RefSeq ORF:	876 bp
Locus ID:	233724
UniProt ID:	Q8K1A5
Cytogenetics:	7 57.69 cM
Gene Summary:	Required for normal motor neuron development. Required for autophagosome formation. [UniProtKB/Swiss-Prot Function]