

Product datasheet for **MG203697**

Tmem106b (NM_027992) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tmem106b (NM_027992) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tmem106b
Synonyms:	2310036D22Rik; 5830455K21Rik; 6430519M21Rik; AI428776; AI661344
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203697 representing NM_027992 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAAGTCTCTTTCTCACTTACCTTTGCATTCAAATAAAGAAGATGGCTATGATGGCGTTACATCGA
CAGACAATATGAGAAATGGATTGGTTAGCAGTGAAGTGCACAACGAAGACGGAAGAAATGGAGATGTCTC
TCAGTTCCCATATGTGGAATTTACTGGAAGAGATAGTGTCACTTGTCCACTTGCCAAGGAACAGGAAGA
ATTCCTAGGGGACAAGAAAACCAACTGGTGGCATTGATTCCATATAGTGATCAGCGTTACGGCCAAGAA
GAACAAAGCTGTATGTGATGGCGTCTGTGTTTGTCTGCCTGCTCCTGTCTGGATTGGCTGTGTTTTTCT
TTTCCCTCGATCTATTGAGGTGAAGTACATTGGAGTAAAATCAGCCTATGTCAGCTACGACGCTGAAAAG
CGAACCATATATTTAAATATCACGAACACACTAAATATAACAAATAATAACTATTATTCTGTTGAGTTG
AAAACATCACTGCTCAAGTCCAGTTTTCAAACCGGTGATTGGAAAGGCTCGTTTAAACAACATAACTAA
CATTGGCCCACTTGATATGAAGCAGATTGATTATACGGTACCCACAGTTATTGCAGAGGAAATGAGTTAC
ATGTATGATTTCTGTACTGCTCTCCATCAAAGTGCACAACATAGTACTCATGATGCAAGTTACTGTAA
CAACAGCATACTTTGGCACTCTGAGCAGATATCTCAGGAAAGGTACCAGTATGTCGACTGTGGAAGGAA
CACGACTTACCAGTTGGCCAGTCTGAGTATCTAAATGTCCTTCAGCCACAACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203697 representing NM_027992
 Red=Cloning site Green=Tags(s)

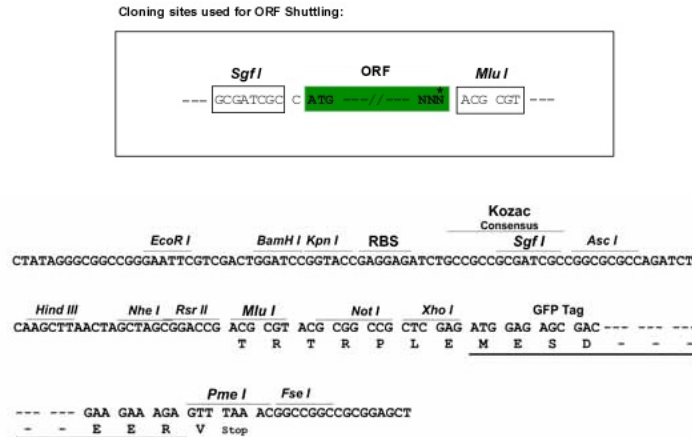
MGKLSLHSLPLHSNKEDGYDGVSTDNMRNGLVSSEVHNEDGRNGDVSQFPYVEFTGRDSVTCPTCQGTGR
 IPRGQENQLVALIPYSDQRLRPRRTKLYMASVFCVLLSGLAVFVFLFPRSIKVIKVKSAVSYDAEK
 RTIYLNITNTLNI TNNNYSVEVENITAQVQFSKTVIGKARLNNITNIGPLDMKQIDYTVPTVIAEEMSY
 MYDFCTLLSIKVHNIIVLMMQVTVTTAYFGHSEQISQERYQYVDCGRNTTYQLAQSEYLVNVLQPQQ

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja3654_e07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027992

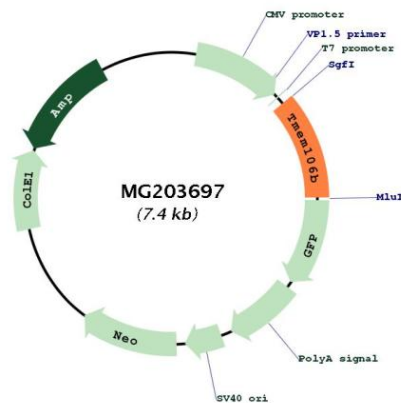
ORF Size: 825 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_027992.3, NP_082268.2</u>
RefSeq Size:	6099 bp
RefSeq ORF:	828 bp
Locus ID:	71900
UniProt ID:	<u>Q80X71</u>
Cytogenetics:	6 A1
Gene Summary:	Involved in dendrite morphogenesis and maintenance by regulating lysosomal trafficking via its interaction with MAP6. May act by inhibiting retrograde transport of lysosomes along dendrites. Required for dendrite branching (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MG203697