

Product datasheet for **RG218116**

TMEM87B (NM_032824) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMEM87B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG218116 representing NM_032824
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGTCGCCGCTGCCGCTCGGTAGCCGGGCTCCTGCCACGCCCGCCGCTGCTTTCCGCCCGGGCCC
 CGCTGCTGCGCGTCGCCCTCTGCCTCCTGTGCTGGACCCCGCGGCTGTGCGCGCGGTCCCTGAGCTCGG
 GCTCTGGTTAGAGACAGTCAACGACAAATCAGGACCTTTGATATTTAGGAAAATATGTTTAACTCTACA
 GATATCAAGTTATCTGTTAAGTCATTCCATTGTTCTGGGCTGTGAAGTTTACCATAGTGTGGCATTGGA
 AGTATCATACTGTCACAATGAGCATTCTAATCTGGAAGAGCTGTTCCAAAAACATAAACTTAGTGTGGA
 TGAAGACTTTTGTCAATTTTGAAGAATGACAACCTGTTGGACAACAAAAATGAAAACCTTAGATTGCAAC
 AGTGATTACAGGTGTTTCCCTCTTTGAATAATAAAGAACTAATAATATCAGAAATGTTTCAAACCAGG
 AAAGATCGGATGTTGTAGCCAGAACACAAAAGATGGGTTTCATATCTTTATTGTTTCTATTAACCGGA
 GAATACAGATGCAAGCTGGAATTTGAATGTTTCTTTCTATGATTGGGCTCATGGATATATCTCTGCA
 TCAGATTGGCCCTAATGATTTTTACATGGTGATGTGATTGTTTATATATTATATGGCATACTCTGGC
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 TTCTGATGATGAAATTGAGGAATTCATGGTAACCTCTGAAAATTTAACCGAAGGAATAAAATTAAGAGCC
 TCAAAATCAGTTTCCAATGGAACAGCTAAGCCTGCCACTTCTGAGAATTTGATGAAGATTTGAAGTGGG
 TAGAAGAAAATATCCCTCTTCATTACAGATGTAGCTCTCCAGTGTTAGTGGATTGAGGAGAAAT
 CATGACCAGATCTGAAATGGCTGAAAAATGTTCTCTTCAGAAAAGATAATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

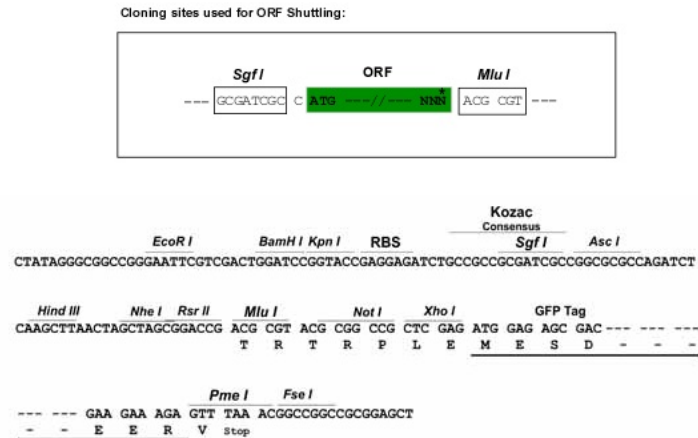
Protein Sequence: >RG218116 representing NM_032824
 Red=Cloning site Green=Tags(s)

MVAACRSVAGLLPRRRRCFAPARAPLLRVALCLLCWTPAAVRAVPELGLWLETVNDKSGPLIFRKTMFNST
 DIKLSVKSFHCSGPVKFTIVVHLKYHTCHNEHSNLEELFQKHKLSVDEDFCHYLKNDNCWTTKNENLDCN
 SDSQVFPSSLNNKELINIRNVSNQERSDVVARTQKDGFIHIVSIKTENTDASWNLNVSLSMIGPHGYISA
 SDWPLMIFYMVMCIVYILYIGILWLTWSACYWKDILRIQFWIAAVIFLGMLEKAVFYSEYQNISSNTGLSTQ
 GLLIFAEIISAIRTLARLLVIIVSLGYGIVKPRLGTMHRVIGLLLYLIFAAVEGVMRVIGGSNHLAV
 VLDDIILAVIDSIFVWFIFISLAQTMKTLRLKNTVKFSLYRHFKNLIFAVLASIVFMGWTTKTFRIAK
 CQSDWMERWVDDAFWSFLSLILIVIMFLWRPSANNQRYAFMPLIDDSDEIEEFMVTSENLTGKILRA
 SKSVSNGTAKPATSENFDLKWEEENIPSSFTDVALPVLVDSDEEIMTRSEMAEKMFSSSEKIM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_032824

ORF Size: 1662 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.

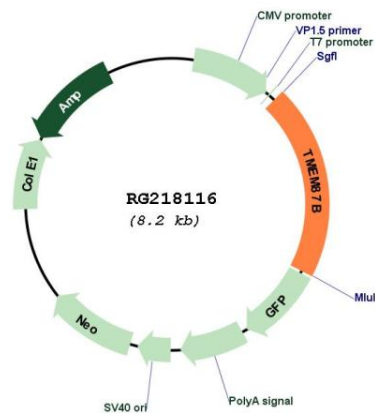
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_032824.1](#), [NP_116213.1](#)

RefSeq Size: 2932 bp

RefSeq ORF:	1668 bp
Locus ID:	84910
UniProt ID:	Q96K49
Cytogenetics:	2q13
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene encodes a protein that may interact with human papillomavirus type 18 E6 oncogene. The protein is also likely to be involved in endosome-to-trans-Golgi network retrograde transport. The gene is expressed in adult and fetal tissues, including brain and heart. This gene is a component of the 2q13 deletion syndrome. Mutations in this gene may be associated with congenital heart defects. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG218116