

Product datasheet for **RG216832**

TMEM87A (NM_015497) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TMEM87A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216832 representing NM_015497
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGGGCGCTGCGTGGCTTCAGGTGTTGCCTGTCATTCTTCTGCTTCTGGGAGCTACCCGTCACCAC
 TGTCGTTTTTCAGTGCGGGACCGGCAACCGTAGCTGCTGCCGACCGGTCCAAATGGCACATTCGGATACC
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 GGAGAACCTTGTGACCTGTCTTTGAATATAACCTGGTATCTGAAAAGCGCTGATTGTTACAATGAAATCT
 ATAACCTCAAGGCAGAAGAAGTAGAGTTGTATTTGGAAAACTTAAGGAAAAAGAGGCTTGTCTGGGAA
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 TATTGGCATTTCATCCTCAAAGGAATCATCAAAGAAAATTCACTGAGTAATCTTTTACCATGACTGTT
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 GAGGTTTGCCTTTTACCATTGTCTGAGGAAGAGGAGGAGGATGAACAAAGGAGCCTATGCTGAAGAA
 AGCTTTTGAAGGAATGAAAATGAGAAGTACCAACAAGAACCAATGGAAATAGTAAAGTTAACAAGCAC
 AGGAAGATGATTTGAAGTGGGTAGAAGAGAATGTTCTTCTCTGTGACAGATGTAGCACTTCCAGCCCT
 TCTGGATTGAGATGAGGAACGAATGATCACACTTTGAAAGGTCCAAATGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

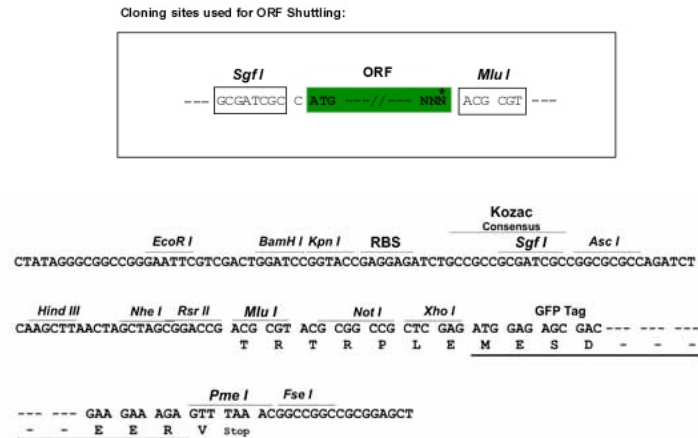
Protein Sequence: >RG216832 representing NM_015497
 Red=Cloning site Green=Tags(s)

MAAAWLQVLPVILLLLGAHPSPLSFFSAGPATVAAADRSKWHIPIPSGKNYFSFGKILFRNTTIFLKFD
 GEPCDLSLNTWYLSADCYNEIYNFKAEEVELYLEKLKEKRGLSGKYQTSSKLFQNCSELFKTQTFSGD
 FMHRLPLLGEKQEAKENGNTLTFIGDKTAMHEPLQWQDAPYIFIVHIGISSKESKENSLSNLFMTV
 EVKGPYEYLTLEDYPLMIFFMVMCIYVVLFGVLWLAWSACYWRDLRIQFWIGAVIFLGMLEKAVFYAEF
 QNIRYKGESVQALILAELLSAVKRSRLARTLVIIIVSLGYGIVKPRLGVTLHKVVVAGALYLLFSGMEGVL
 RVTGAQTDLASLAFIPLAFLDTALCWIFISLTQTMKLLKLRNIVKLSLYRHFTNTLILAVAASIVFII
 WTTMKFRIVTCQSDWRELWDDAIWRLLFSMILFVIMVLWRPSANNQRFASFPLSEEEEEDEQKEPMLKE
 SFEGMKMRSTKQEPNGNSKVNKAQEDDLKWEENVPSVTDVALPALDSDEERMITHFERSKME

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015497

ORF Size: 1665 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.

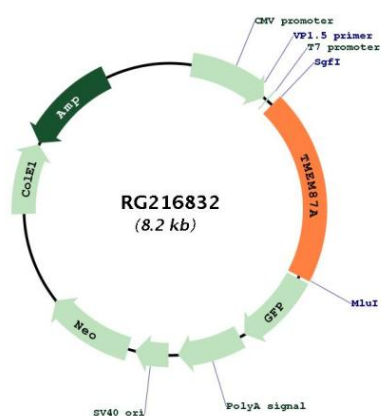
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_015497.5](#)

RefSeq Size: 2875 bp

RefSeq ORF:	1668 bp
Locus ID:	25963
UniProt ID:	<u>Q8NBN3</u>
Cytogenetics:	15q15.1
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	May be involved in retrograde transport from endosomes to the trans-Golgi network (TGN). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216832