

Product datasheet for **RG225374**

TMEM106B (NM_001134232) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TMEM106B (NM_001134232) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TMEM106B
Synonyms: HLD16
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225374 representing NM_001134232
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAAAGTCTCTTTCTCATTTCCTTTGCATTCAAGCAAAGAAGATGCTTATGATGGAGTCACATCTG
 AAAACATGAGGAATGGACTGGTTAATAGTGAAGTCCATAATGAAGATGGAAGAAATGGAGATGTCTCTCA
 GTTTCCATATGTGAATTTACAGGAAGAGATAGTGTACCTGCCCTACTTGTGAGGAAACAGGAAGAATT
 CCTAGGGGCAAGAAAACCAACTGGTGGCATTGATTCATATAGTGATCAGAGATTAAGGCCAAGAAGAA
 CAAAGCTGATGTGATGGCTTCTGTGTTTGTCTGTCTACTCCTTTCTGGATTGGCTGTGTTTTCTTTT
 CCCTCGCTCTATCGACGTGAAATACATTGGTGTAAAATCAGCCTATGTCAGTTATGATGTTGAGAAGCGT
 ACAATTTATTTAAATATCACAAACACACTAAATATAACAAACAATAACTATTACTCTGTGGAAGTTGAAA
 ACATCACTGCCCAAGTTCAATTTCAAAAAAGTTATTGGAAAGGCACGCTTAAACAACATAACCATTAT
 TGGTCCACTTGATATGAAACAAATTGATTACACAGTACCTACCGTTATAGCAGAGGAAATGAGTTATATG
 TATGATTTCTGTACTCTGATATCCATCAAAGTGCATAACATAGTACTCATGATGCAAGTTACTGTGACAA
 CAACATACTTTGGCCACTCTGAACAGATATCCCAGGAGAGGTATCAGTATGTCGACTGTGGAAGAAACAC
 AACTTATCAGTTGGGCGAGTCTGAATATTTAAATGTACTTCAGCCACAACAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225374 representing NM_001134232
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MGKLSHLPLHSSKEDAYDGVTSENMRNGLVNSEVHNEDGRNGDVSQFPYVEFTGRDSVTCPTCQGTGRI
 PRQENQLVALIPYSDQRLRPRRTKLYVMASVFVCLLLSGLAVFFLFPRSIDVKYIGVKSAYVSYDVQKR
 TIYLNITNTLNI TNNNYSVEVENITAQVQFSKTVIGKARLNNITIIIGPLDMKQIDYTVPTVIAEEMSYM
 YDFCTLISIKVHNIVLMMQVTVTTTYFGHSEQISQERYQYVDCGRNTTYQLGQSEYLNVLQPQQ

TRTRPLE - GFP Tag - V

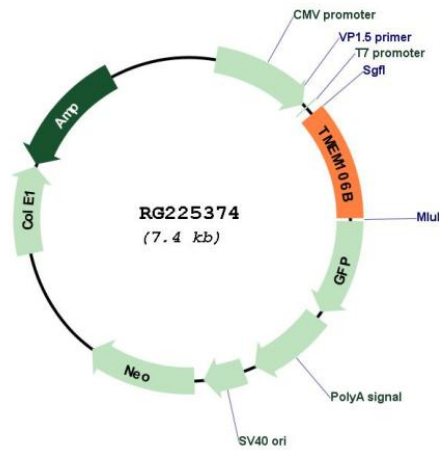
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001134232

ORF Size: 822 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_001134232.2
RefSeq Size:	6320 bp
RefSeq ORF:	825 bp
Locus ID:	54664
UniProt ID:	Q9NUM4
Cytogenetics:	7p21.3
Protein Families:	Transmembrane
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.[UniProtKB/Swiss-Prot Function]