

## Product datasheet for **RG212303**

### **TMEM176B (NM\_001101312) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TMEM176B (NM\_001101312) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** TMEM176B  
**Synonyms:** LR8; MS4B2  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG212303 representing NM\_001101312  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGCAAAACACGGTGATTGTGAATGGAGTTGCTATGGCCTCTAGGCCATCCCAGCCCACCCACGTCA  
ACGTCCACATCCACCAGGAGTCAGCTTTGACACAACCTGCTGAAAGCTGGAGTTCTCTGAAGAAGTTTCT  
TTTTACCCTGGGGACACTGTGCCTCCACAGCCAGGATTGGTTATGAGCAGCTGGCTCTAGGGTGACT  
CAGATATTGCTGGGGTGTGAGTTGTGTTCTTGGAGTGTGTCTCAGCTTGGGGCCCTGGACTGTGCTGA  
GTGCCTCAGGCTGTGCCTTCTGGGCGGGTCTGTGGTGATCGCAGCAGGAGCTGGGGCCATTGTCCATGA  
GAAGCACCCGGGCAAACCTTGCTGGCTATATATCCAGCCTGCTCACCTGGCAGGCTTTGCTACAGCTATG  
GCTGCTGTGTCTCTGCGTGAATAGCTTCATCTGGCAAACCTGAACCCTTTTTATACATCGACACTGTGT  
GTGATCGCTCAGACCCTGTCTTCCCTACCACTGGGTACAGATGGATGCGGCGAAGTCAAGAGAACCAATG  
GCAGAAGGAGGAGTGTAGAGCTTACATGCAGATGCTGAGGAAGTTGTTACAGCAATCCGTGCCCTGTTC  
CTGGCTGTCTGTGCTTGAAGGTCATTGTGCTTGGTTTCCTTGGGAGTAGGCTTCGAAAACCTGTGTG  
GCCAGAGCTCCCAGCCCCTGAATGAGGAAGGATCAGAGAAGAGGCTACTGGGGGAGAATTCAGTGCCCC  
TTCGCCCTCTAGGGAGCAGACCTCCACTGCCATTGTCTG

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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**Protein Sequence:** >RG212303 representing NM\_001101312  
Red=Cloning site Green=Tags(s)

MTQNTVI VNGVAMASRPSQPTHVNVHIIHQESAL TQLLKAGGSLKKFLFHPGDTV PSTARIGYEQLALGVT  
 QILLGVVSCVLGVCLSLGPWTVLSASGCAF WAGSVVIAAGAGAI VHEKHPGKLAGYISSLLTLAGFATAM  
 AAVVLCVNSFIWQTEPFLYIDTVCDRSDPVFP TTYRWMRRSQENQWQKEECRAYMQMLRKLFTAIRALF  
 LAVCVLKVIVSLVSLGVGLRNL CGSSQPLNEEGSEKRL LGENSVPPSPSREQTSTAIVL

TRTRPLE - GFP Tag - V

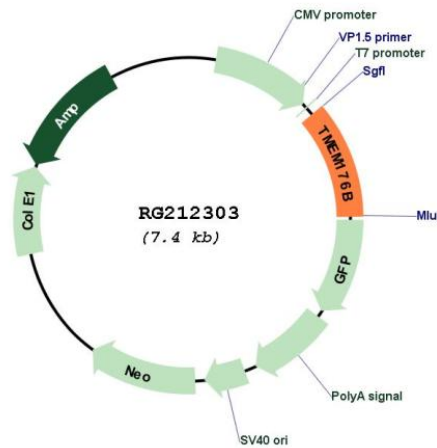
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001101312

**ORF Size:** 810 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001101312.2</a>
<b>RefSeq Size:</b>	1312 bp
<b>RefSeq ORF:</b>	813 bp
<b>Locus ID:</b>	28959
<b>UniProt ID:</b>	<a href="#">Q3YBM2</a>
<b>Cytogenetics:</b>	7q36.1
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	May play a role in the process of maturation of dendritic cells. Required for the development of cerebellar granule cells (By similarity).[UniProtKB/Swiss-Prot Function]