

## Product datasheet for **RG200802**

### **TMEM176B (NM\_014020) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TMEM176B (NM_014020) 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:	>RG200802 representing NM_014020 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGCAAAACACGGTGATTGTGAATGGAGTTGCTATGGCCTCTAGGCCATCCCAGCCCACCCACGTCA  
ACGTCCACATCCACCAGGAGTCAGCTTTGACACAACCTGCTGAAAGCTGGAGGTTCTCTGAAGAAGTTTCT  
TTTTACCCTGGGGACACTGTGCCTCCACAGCCAGGATTGGTTATGAGCAGCTGGCTCTAGGGGTGACT  
CAGATATTGCTGGGGTGTGAGTTGTGTTCTTGGAGTGTGTCTCAGCTTGGGGCCCTGGACTGTGCTGC  
GTGCCTCAGGCTGTGCCTTCTGGGCGGGTCTGTGGTGATCGCAGCAGGAGCTGGGGCCATTGTCCATGA  
GAAGCACCCGGGCAAACCTTGCTGGCTATATATCCAGCCTGCTCACCTGACAGGCTTTGCTACAGCTATG  
GCTGCTGTGTCTCTGCGTGAATAGCTTCATCTGGCAAACCTGAACCCCTTTTATACATCGACACTGTGT  
GTGATCGCTCAGACCCTGTCTTCCCTACCACTGGGTACAGATGGATGCGGCGAAGTCAAGAGAACCAATG  
GCAGAAGGAGGAGTGTAGAGCTTACATGCAGATGCTGAGGAAGTTGTTACAGCAATCCGTGCCCTGTTC  
CTGGCTGTCTGTGCTTGAAGGTCATTGTGCTTGGTTTCTTGGGAGTAGGCTTTCGAAACTTGTGTG  
GCCAGAGCTCCCAGCCCCTGAATGAGGAAGGATCAGAGAAGAGGCTACTGGGGGAGAATTCAGTGCCCC  
TTCGCCCTCTAGGGAGCAGACCTCCACTGCCATTGTCTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG200802 representing NM\_014020  
 Red=Cloning site Green=Tags(s)

MTQNTVI VNGVAMASRPSQPTHVNVHIHQESAL TQLLKAGGSLKKFLFHPGDTV PSTARIGYEQLALGVT  
 QILLGVVSCVLGVCLSLGPWTVLRASGCAF WAGSVVIAAGAGAI VHEKHPGKLAGYISSLLTLTG FATAM  
 AAVVLCVNSFIWQTEPFLYIDTVCDRSDP VFPTTGYRWMRRSQENQWQKEECRAYMQMLRKLFTAIRALF  
 LAVCVLKVIVSLVSLGVGLRNL CGQSSQPLNEEGSEKRL LGENSVPPSPSREQTSTAIVL

TRTRPLE - GFP Tag - V

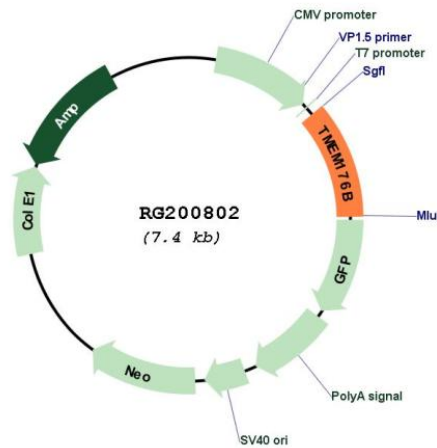
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_014020

**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_014020.2</a> , <a href="#">NP_054739.2</a>
<b>RefSeq Size:</b>	1357 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]