

## Product datasheet for **MG200885**

### Tmem107 (BC096686) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tmem107 (BC096686) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Tmem107  
**Synonyms:** RP23-19I2.5  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG200885 representing BC096686  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGTCGGATCTCCGGGCTCGTGCCCTCTCGGTTCTGACGCTCTTGGCTCATCTGGTGGTTGTCATCA  
CGTTGTTCTGGTCCCGGAAAGCAACATCCAGGCTTGCCTGCCTCAAATTCACCCCGGAGGAATACGA  
AAAGCAGGACAACCAGCTGGTAGCCGCTCTGTCTACCCTGGGCTCTTGCAGTGGAGCTGGCTGGC  
TTCTCTCAGGAGTCTCCATGTTCAATAGCACCCAGAGCCTCTCCATTGCAGCCACTGTAGCGGT  
CTGTGGCCCTGTCTTCTCGTATTCGAGCGATGGGAATGTACCACGACTGGTACATTTTACCTTCTG  
CAGCGCCTCCAGCTGTCACTGAAACTGCATTATTCATCGTGTCTTTGGGCTGAAAAAGAAACCCTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG200885 representing BC096686  
Red=Cloning site Green=Tags(s)

MGRISGLVPSRFLTLLAHLVVVITLFWRESNIQAACLPLKFTPEEYEQDNQLVAALCLTLGLFAVELAG  
FLSGVSMFNSTQSLLSIAAHCSASVALSFFVFERWECTTYWYIFTFCSAFPVAVTETALFIAVFGKPKPF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

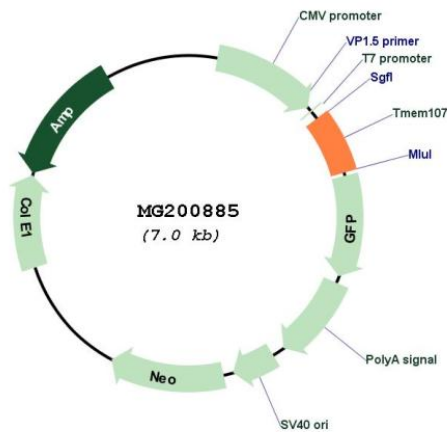


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Cloning Scheme:



Plasmid Map:



ACCN: BC096686

ORF Size: 422 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](#)

<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="#">BC096686</a> , <a href="#">AAH96686</a>
<b>RefSeq Size:</b>	768 bp
<b>RefSeq ORF:</b>	422 bp
<b>Locus ID:</b>	66910
<b>Cytogenetics:</b>	11 B3
<b>Gene Summary:</b>	Plays a role in cilia formation and embryonic patterning. Requires for normal Sonic hedgehog (Shh) signaling in the neural tube and acts in combination with GLI2 and GLI3 to pattern ventral and intermediate neuronal cell types. During ciliogenesis regulates the ciliary transition zone localization of some MKS complex proteins (PubMed:26595381, PubMed:26518474).[UniProtKB/Swiss-Prot Function]