

## Product datasheet for **MG219326**

### Mal (NM\_001171187) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Mal (NM\_001171187) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Mal  
**Synonyms:** Mpv17; VI; Vip17  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG219326 representing NM\_001171187  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCTCCGGCAGCGGCTTCGGGTGGCAGCACCTGCCAGTGGCTTCTCGGTCTTCACCACCTTCCTG  
ACTTGCTCTTCGTTTGTGAGTTTGATGCAGCCTACCACTGTGTGGCTGCCCTATTTACCTCAGTGCCTC  
AGTTCTGGAAGCCCTGGCCACCATCTCAATGTTTGTGAGTGGCTTTACTTACAAGCATTACCATGAAAACATC  
GCCGCAGTGGTGTTCCTACGTGGTCACTCTGATCTACGTGGTCCATGCTGTGTTTTCTTAATCAGAT  
GGAAGTCTCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG219326 representing NM\_001171187  
Red=Cloning site Green=Tags(s)  
MAPAAASGGSTLPSGFSVFTTFPDLLFVCFDAAYHCVAALFYLSASVLEALATISMFDGFTYKHYHENI  
AAVVFAYVVTLIYVHAVFSLIRWKSS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

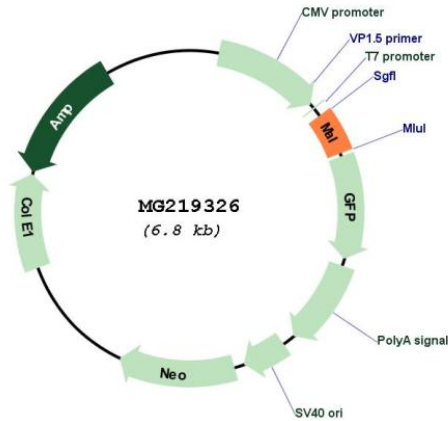


[View online »](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001171187

ORF Size: 291 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>	<u>NM_001171187.1, NP_001164658.1</u>
<b>RefSeq Size:</b>	2624 bp
<b>RefSeq ORF:</b>	294 bp
<b>Locus ID:</b>	17153
<b>UniProt ID:</b>	<u>O09198</u>
<b>Cytogenetics:</b>	2 F1
<b>Gene Summary:</b>	This gene encodes a highly hydrophobic integral membrane protein belonging to the MAL family of proteolipids. The encoded protein has been localized to the endoplasmic reticulum of T-cells and is a candidate linker protein in T-cell signal transduction. In addition, this proteolipid is localized in compact myelin of cells in the nervous system and has been implicated in myelin biogenesis and/or function. The protein plays a role in the formation, stabilization and maintenance of glycosphingolipid-enriched membrane microdomains. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2010]