

Product datasheet for **RG217248**

MAL (NM_022438) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MAL (NM_022438) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MAL
Synonyms: MVP17; VIP17
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG217248 representing NM_022438
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCCCCGAGCGGCGACGGGGGCAGCACCCCTGCCAGTGGCTTCTCGGTCTTACCACCTTGCCCG
 ACTTGCTCTTCATCTTTGAGTTTATCTTCGGGGCCTGGTGTGGATCCTGGTGGCCTCCTCCCTGGTGCC
 CTGGCCCTGGTCCAGGGCTGGGTGATGTTCTGTCTGTGTTCTGCTTCGTGGCCACCACCCTTGATC
 ATCCTGTACATAATTGGAGCCACGGTGGAGACTTCTGGGTCACCTTGGTGTCTCCTACATAGCCA
 CTCTGCTACGTGGTCCATGCGGTGTTCTCTTAATCAGATGGAAGTCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG217248 representing NM_022438
 Red=Cloning site Green=Tags(s)
 MAPAAATGGSTLPSGFSVFTLLPDLLFIFEFIFGGLVWILVASSLVPWPLVQGWVMFVSVFCFVATTTLI
 ILYIIGAHGGETSWTLVFSYIATLLYVHAVFSLIRWKSS

TRTRPLE - GFP Tag - V

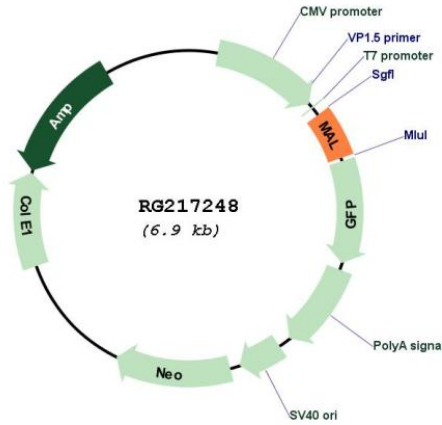
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:


Plasmid Map:

ACCN: NM_022438

ORF Size: 333 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_022438.2
RefSeq Size:	930 bp
RefSeq ORF:	336 bp
Locus ID:	4118
UniProt ID:	P21145
Cytogenetics:	2q11.1
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is a highly hydrophobic integral membrane protein belonging to the MAL family of proteolipids. The 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. Down-regulation of this gene has been associated with a variety of human epithelial malignancies. Alternative splicing produces four transcript variants which vary from each other by the presence or absence of alternatively spliced exons 2 and 3. [provided by RefSeq, May 2012]